

SERIE C-A-F-S

Reductores coaxiales serie C

Reductores ortogonales serie A  INCLUDED

Reductores pendulares serie F

Reductores de una sola etapa serie S

 **Bonfiglioli**



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Revisiones:

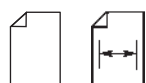
El índice de revisiones del catálogo se indica en la pág 578. En la dirección www.bonfiglioli.com están disponibles los catálogos en sus versiones más actualizadas.



INFORMACIÓN GENERAL

1 SÍMBOLOS Y UNIDADES DE MEDIDA

Símbolos	Unidades de medida	Descripción	Símbolos	Unidades de medida	Descripción
$A_{N\ 1,2}$	[N]	Carga axial nominal	$P_{1,2}$	[kW]	Potencia
f_s	—	Factor de servicio	$P_{N\ 1,2}$	[kW]	Potencia nominal
f_T	—	Factor térmico	$P_{R\ 1,2}$	[kW]	Potencia requerida
f_{TP}	—	Factor de temperatura	$R_{C\ 1,2}$	[N]	Carga radial de cálculo
i	—	Relación de reducción	$R_{N\ 1,2}$	[N]	Carga radial nominal
I	—	Relación de intermitencia	S	—	Factor de seguridad
J_C	[Kgm ²]	Momento de inercia de la carga	t_a	[°C]	Temperatura ambiente
J_M	[Kgm ²]	Momento de inercia del motor	t_s	[°C]	Temperatura superficial
J_R	[Kgm ²]	Momento de inercia del reductor	t_o	[°C]	Temperatura del aceite
K	—	Factor de aceleración de las masas	t_f	[min]	Tiempo de funcionamiento con carga constante
K_r	—	Constante de transmisión	t_r	[min]	Tiempo de reposo
$M_{1,2}$	[Nm]	Par	η_d	—	Rendimiento dinámico
$M_{c\ 1,2}$	[Nm]	Par de cálculo	η_s	—	Rendimiento estático
$M_{n\ 1,2}$	[Nm]	Par nominal	φ	[']	Juego angular del eje lento (con eje rápido bloqueado)
$M_{r\ 1,2}$	[Nm]	Par requerido	$_1$ valor correspondiente al eje de entrada		
$n_{1,2}$	[min ⁻¹]	Velocidad	$_2$ valor correspondiente al eje de salida		



Este símbolo indica la página en la que se encuentra la información.



Este símbolo muestra las referencias angulares para la indicación de la dirección de la carga radial (el eje está visto de frente).



Símbolo que hace referencia al peso de los reductores y motorreductores. Los valores indicados en las tablas de los motorreductores incluyen tanto el peso del motor de 4 polos como el peso del lubricante que contiene, según lo indicado por BONFIGLIOLI RIDUTTORI.



PELIGRO – ATENCIÓN

Esta señal indica una situación de grave peligro que, si no se respeta, puede producir un riesgo importante para la salud y seguridad de las personas.



IMPORTANTE

Esta señal indica informaciones técnicas de particular importancia que se han de respetar.



Referencia a los grupos conformes a la Directiva "ATEX"

Serie C	Serie A	Serie F	Serie S	
				Motorreductor con motor integrado.
				Motorreductor con motor IEC.
				Reductor predispuesto para acoplamiento a motor de tipo IEC.
				Reductor predispuesto para acoplamiento a servomotor.
				Reductor con eje de entrada cilíndrico.



2 TEMPERATURAS LÍMITES ADMITIDAS

Símbolo	Descripción / Condición	Valor (*)	
		Aceite sintético	Aceite mineral
t_a	Temperatura ambiente		
$t_{au \text{ min}}$	Mínima temperatura ambiente de operación	-30°C	-10°C
$t_{au \text{ Max}}$	Máxima temperatura ambiente de operación	+50°C	+40°C
$t_{as \text{ min}}$	Mínima temperatura ambiente de almacenaje	-40°C	-10°C
$t_{as \text{ Max}}$	Máxima temperatura ambiente de almacenaje	+50°C	+50°C
t_s	Temperatura superficial		
$t_{s \text{ min}}$	Mínima temperatura superficial para arranque con carga parcial (#)	-25°C	-10°C
$t_{sc \text{ min}}$	Mínima temperatura superficial para arranque a plena carga	-10°C	-5°C
$t_{s \text{ Max}}$	Máxima temperatura superficial en trabajo continuo (medición realizada cerca de la entrada del reductor)	+100°C	+100°C (@)
t_o	Temperatura del aceite		
$t_{o \text{ Max}}$	Máxima temperatura del aceite en trabajo continuo	+95°C	+95°C (@)

(*) = Para los valores mínimos y máximos específicos para las diferentes viscosidades del aceite consultar la tabla "Selección de la viscosidad óptima del aceite". Para valores de temperatura de $t_a < -20^\circ\text{C}$ y $t_s, t_o > 80^\circ\text{C}$, seleccionar (tal y como se permite en fase de configuración del producto) el tipo de juntas fabricados en el material más idóneo para el tipo de aplicación. Si es necesario contactar con el Servicio Técnico Bonfiglioli. 

(@) = Para valores de t_s y $t_o > 80^\circ\text{C}$ y $< 95^\circ\text{C}$, se desaconseja la utilización en servicio continuo.

(#) = Para el arranque a plena carga se aconseja el uso de una rampa gradual y prever un mayor consumo del motor. Si es necesario contactar con el Servicio Técnico Bonfiglioli. 



3 PAR

3.1 Par nominal M_{n2} [Nm]

Es el par transmisible en la salida con carga continua uniforme, referido a la velocidad de entrada n_1 y a la correspondiente velocidad de salida n_2 .

Se calcula sobre la base de un factor de servicio $f_s = 1$.

3.2 Par resistente M_{r2} [Nm]

Representa el par solicitado por la aplicación en cuestión y deberá ser siempre igual o menor que el par de salida nominal M_{n2} del reductor seleccionado.

3.3 Par de cálculo M_{c2} [Nm]

Es el valor del par que se utiliza para la selección del reductor considerando el par solicitado M_{r2} y el factor de servicio f_s y se obtiene con la formula:

$$M_{c2} = M_{r2} \cdot f_s < M_{n2} \quad (1)$$

4 POTENCIA

4.1 Potencia nominal a la entrada P_{n1} [kW]

En las tablas de selección de reductores, es la potencia aplicable a la entrada referida a la velocidad n_1 , considerando un factor de servicio $f_s = 1$



5 POTENCIA TÉRMICA P_t [kW]

Las siguientes indicaciones son válidas para los reductores C, F y S. Para la verificación térmica de los reductores A, consulte las indicaciones del párrafo 48 (válido tanto para productos estándar como ATEX).

P_t es el valor que indica el límite térmico del reductor y representa la potencia transmisible en servicio continuo, a la temperatura ambiente $t_a = 20^\circ\text{C}$, sin que se produzcan daños en los elementos del reductor o degradación del lubricante. Ver. tab (A1).

En el caso de servicio intermitente o de temperatura ambiente inferior a los 20°C , el valor de P_t debe ser corregido por medio del factor f_t , indicado en la tabla (A2), es decir: $P_t' = P_t \times f_t$.

Para los reductores con más de dos etapas de reducción y/o con relación de reducción $i > 45$, la verificación de la potencia térmica no es necesaria ya que ésta última es con seguridad inferior a la potencia mecánica transmisible.

(A 1)

P_t [kW] 20°C		
	$n_1 = 1400 \text{ min}^{-1}$	$n_1 = 2800 \text{ min}^{-1}$
C 05 2	—	—
C 12 2	—	—
C 22 2	—	—
C 32 2	—	4.5
C 36 2	6.5	5.0
C 41 2	8.0	6.0
C 51 2	11.0	7.8
C 61 2	14.0	10.0
C 70 2	21	16.0
C 80 2	32	24
C 90 2	43	32
C 100 2	59	42

P_t [kW] 20°C		
	$n_1 = 1400 \text{ min}^{-1}$	$n_1 = 2800 \text{ min}^{-1}$
F 10 2	3.8	2.7
F 20 2	9.1	6.5
F 25 2	10.2	7.4
F 31 2	11.7	8.5
F 41 2	14.3	10.4
F 51 2	21.5	15.0
F 60 3	26.0	18.9
F 70 3	36.4	26.0
F 80 3	52	36
F 90 3	75	53

P_t [kW] 20°C		
	$n_1 = 1400 \text{ min}^{-1}$	$n_1 = 2800 \text{ min}^{-1}$
S 10 1	5.5	4.9
S 20 1	7.8	7.2
S 30 1	10.0	9.1
S 40 1	15.6	14.3
S 50 1	21	18.9



(A 2)

f_t					
t_a [°C]	Servicio continuo	Servicio intermitente			
		Grado de intermitencia [I]			
		80%	60%	40%	20%
40	0.80	1.1	1.3	1.5	1.6
30	0.85	1.3	1.5	1.6	1.8
20	1.0	1.5	1.6	1.8	2.0
10	1.15	1.6	1.8	2.0	2.3

La relación de intermitencia (I)% se obtiene a partir de la relación entre el tiempo de funcionamiento en carga t_f y el tiempo total ($t_f + t_r$), expresado en porcentaje.

$$I = \frac{t_f}{t_f + t_r} \cdot 100 \quad (2)$$

Deberá cumplirse la condición:

$$P_{r1} \leq P_t \times f_t \quad (3)$$

6 RENDIMIENTO

6.1 Rendimiento dinámico η_d

Viene dado por la relación entre la potencia de salida P_2 y la potencia de entrada P_1 , según la relación:

$$\eta_d = \frac{P_2}{P_1} \cdot 100 \quad [\%] \quad (4)$$

(A 3)

	2 x 	3 x 	4 x 
η_d	95%	93%	90%

	2 x 	3 x 	4 x 
η_d	94%	91%	89%

	2 x 	3 x 	4 x 
η_d	95%	93%	90%

	1 x 
η_d	98%



7 RELACIÓN DE REDUCCIÓN

El valor de la relación de reducción de la velocidad, identificado por el símbolo $[i]$, se calcula a partir de la velocidad de entrada n_1 y de la velocidad de salida n_2 utilizando la siguiente expresión:

$$i = \frac{n_1}{n_2} \quad (5)$$

En el catálogo, la relación de reducción es normalmente, un número con un sólo decimal o ninguno si $i > 1000$.

Si se precisa conocer el número completo con todos los decimales, consúltase el capítulo "RELACIONES EXACTAS".

8 VELOCIDAD ANGULAR

8.1 Velocidad a la entrada n_1 [min⁻¹]

Es la velocidad correspondiente al tipo de motorización seleccionado; los valores de catálogo se refieren a las velocidades de los motores eléctricos de simple y doble polaridad utilizados habitualmente.

Si el reductor es accionado por un mecanismo de transmisión a la entrada, es preferible utilizar velocidades inferiores a 1400 r.p.m. con el fin de garantizar condiciones óptimas de funcionamiento. Se admiten velocidades a la entrada superiores, teniendo en cuenta la evidente disminución del par nominal M_{n2} del reductor.

8.2 Velocidad a la salida n_2 [min⁻¹]

Se obtiene a partir de la velocidad a la entrada n_1 y de la relación de reducción i , según la ecuación:

$$n_2 = \frac{n_1}{i} \quad (6)$$

9 MOMENTO DE INERCIA J_r [Kgm²]

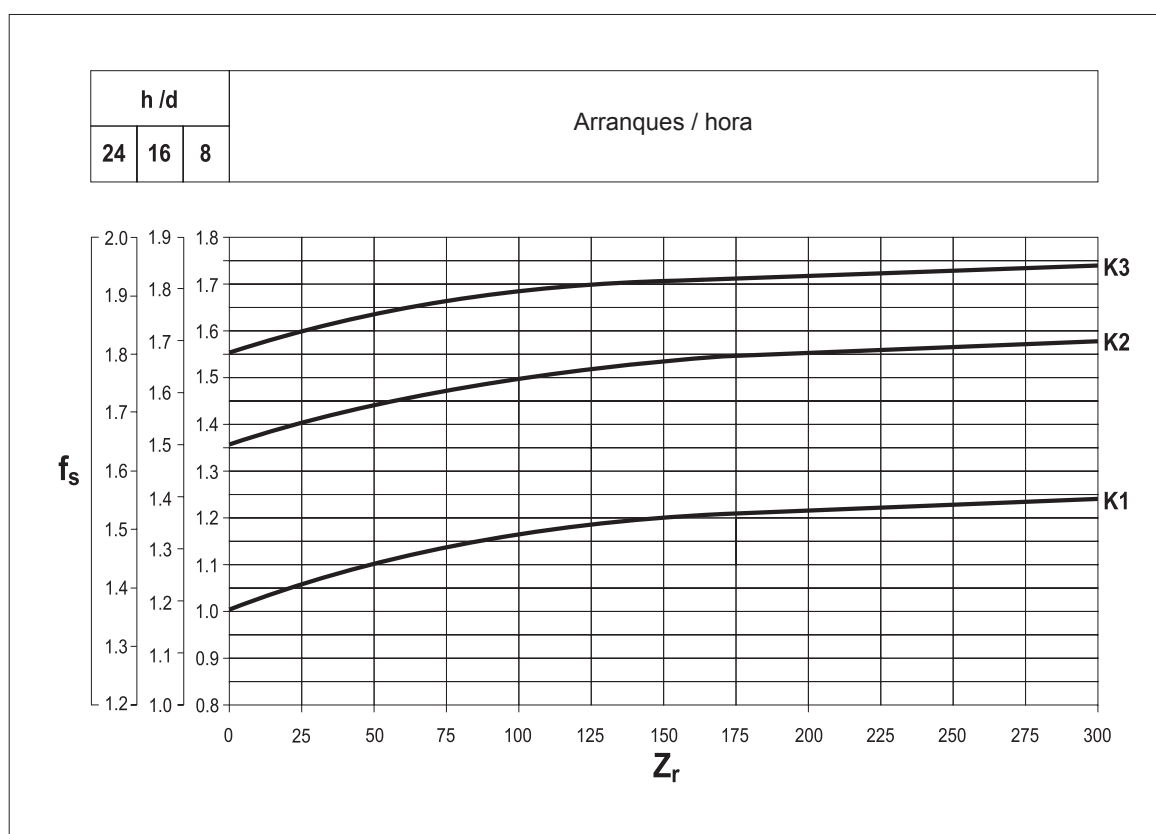
Los momentos de inercia indicados en el catálogo se refieren al eje de entrada del reductor por lo que, en el caso de acoplamiento directo, ya están referidos a la velocidad del motor.



10 FACTOR DE SERVICIO f_s

El factor de servicio es el parámetro que traduce a un valor numérico la dificultad del servicio a que el reductor estará solicitado, teniendo en cuenta, con inevitable aproximación, el funcionamiento diario, las variaciones de la carga y las posibles sobrecargas, conjuntamente con la aplicación específica del reductor. En el gráfico (A4) abajo expuesto, el factor de servicio se obtiene después de haber seleccionado la columna correspondiente a las horas de funcionamiento diarias, por intersección entre el número de arranques / horas y una de las curvas (K1, K2, K3). Las curvas K_ están asociadas a la naturaleza del servicio (aproximadamente: uniforme, medio y pesado) a través del factor de aceleración de las masas K, ligado a la relación entre las inercias de las masas conducidas y el motor. Independientemente del valor del factor de servicio así obtenido, destacamos que existen aplicaciones entre las cuales, como por ejemplo la elevación de cargas, para las que la rotura de un elemento del reductor, podría representar un riesgo de lesiones del personal que opere en las proximidades. En caso de dudas de la aplicación concernientes a los posibles riesgos, aconsejamos consultar previamente con nuestro Servicio Técnico.

(A 4)



10.1 Factor de aceleración de las masas, K

El parámetro sirve para la seleccionar la curva correspondiente a un determinado tipo de carga. El valor se obtiene de la relación:

(A 5)

$K = \frac{J_c}{J_m}$	$\rightarrow$	$J_c =$ Momento de inercia de las masas conducidas, referido al eje del motor	$K \leq 0,25$	$\rightarrow$ K1	Carga uniforme
		$J_m =$ Momento de inercia del motor	$0,25 < K \leq 3$	$\rightarrow$ K2	Carga con choques moderados
			$3 < K \leq 10$	$\rightarrow$ K3	Carga con choques fuertes
			$K > 10$	$\rightarrow$	Se recomienda contactar con nuestro Servicio Técnico.



11.2 Lubricación reductores serie C, A, F, S

Los componentes internos de los reductores Bonfiglioli se lubrican mediante un sistema mixto de inmersión y barboteo del aceite. Los tamaños C 05...C 41, A 05...A 41, F 10...F 41, S 10...S 40 se suministran normalmente desde fábrica con la carga de aceite. Para estos mismos grupos, en las ejecuciones predipuestas para motorización IEC también se suministra un tapón depresor. Con la excepción de la posición de montaje V5, antes de la puesta en marcha del reductor dicho tapón depresor se debe poner en sustitución del tapón cerrado que se utiliza para el transporte. Los grupos C 51, A 50, F 51, S 50 y superiores se suministran sin aceite y es responsabilidad del usuario el llenado de aceite antes de la puesta en servicio. Las tablas siguientes son una referencia de las posiciones de montaje, situación de los tapones de servicio y de la cantidad de lubricante. Esta última es indicativa y para el correcto llenado se deberá tomar como referencia la mitad del tapón de nivel de aceite o de la varilla de nivel si existe. Respecto a esta condición, la cantidad de lubricante indicada en las tablas puede presentar diferencias ocasionalmente relevantes. El lubricante "long life" que se suministra de serie es de naturaleza sintética (SHELL OMALA S4 WE 320) y a menos que sea contaminado por agentes externos, no requiere sustituirse periódicamente durante toda la vida del reductor.

11.3 Lubricación reductores serie A-EX (Atex)

Los reductores en versión ATEX, con algunas excepciones (ver la tabla adjunta), son equipados en fábrica con carga de lubricante "de por vida" SHELL OMALA S4 WE 320, de acuerdo con la posición de montaje específica.

(A 7)

A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 55 ¹⁾	A 60 2 ²⁾	A 60 3 ¹⁾	A 60 4 ¹⁾	A 70 ¹⁾	A 80 ¹⁾	A 90 ¹⁾
------	------	------	------	------	------	------	--------------------	----------------------	----------------------	----------------------	--------------------	--------------------	--------------------

Suministro con lubricante sintético "por vida"
 Suministro con lubricante sintético

⁽¹⁾ Sin lubricante en las posiciones de montaje B6 y B7

⁽²⁾ Sin lubricante en las posiciones de montaje B6, B7 y VB

Para fines de transporte, estos equipos están dotados con tapones de carga cerrados, en función del modelo, incluye un tapón con válvula de respiración que el usuario debe sustituir antes de la puesta en marcha del reductor.

En cualquier caso, dirigirse a al manual de instalación, uso y mantenimiento (el manual está disponible en diversos idiomas y en formato pdf en www.bonfiglioli.com) para realizar una correcta sustitución.

En los casos en el que el reductor es suministrado sin lubricante, se recomienda usar uno de la misma naturaleza, seleccionando uno de los permitidos que se indican en el manual de instalación, uso y mantenimiento.



12 SELECCIÓN

Para seleccionar correctamente un reductor o un motorreductor es necesario disponer de algunos datos fundamentales que hemos resumido en la tabla (A8).

Si el clientelo desea, esta tabla podrá ser cumplimentada y remitida a nuestro Servicio Técnico que se encargará de la selección de la motorización más adecuada para la aplicación indicada.

(A 8)

 Bonfiglioli power, control and green solutions		DATOS TÉCNICOS REQUERIDOS PARA LA SELECCIÓN DE REDUCTORES DE LA SERIE ...				Nr: _____	
						dato: _____	
						Rev _____	dato: _____
A) DATOS GENERALES							
#	1	Empresa / Cliente					
#	2	Contacto					
#	3	Filial / Distribuidor					
#	4	Cantidad requerida					
	5	Plazo de entrega					
B) MOTOR ELÉCTRICO							
	6	Tipo de motor					
#	7	P _{n1} Potencia nominal del motor		[kW]			
#	8	P _{r1} Potencia requerida del motor		[kW]			
	9	n ₁ Velocidad de entrada		[min ⁻¹]			
	10	Número de polos					
C) REDUCTOR							
#	11	Configuración del reductor					
#	12	i Relación de reducción					
#	13	n ₁ Velocidad de entrada		[min ⁻¹]			
#	14	M _{r2} Par de salida solicitado		[Nm]			
#	15	f _s Factor de servicio requerido					
	16	Sentido de rotación del eje de salida [vista frontal]:	CW	CCW			
#	17	L _{10H} Vida de los rodamientos		[h]			
	18	Vida de los engranajes		[h]			
	19	SF _{min} Seguridad a pie de diente		Norma de referencia (ISO preferiblemente)			
	20	SH _{min} Seguridad a lado de diente		Norma de referencia (ISO preferiblemente)			
D) CARGAS ADICIONALES							
	21	R _{c2} Carga radial en el eje de salida		[N]	Orientación [°]		
	22	x ₂ Distancia de aplicación de la carga desde el resalte del eje		[mm]			
	23	R _{c1} Carga Radial en el eje de entrada		[N]	Orientación [°]		
	24	x ₁ Distancia de aplicación de la carga desde el resalte del eje		[mm]			
	25	A _{n2} Carga axial en el eje de salida (+ / -)		[N]	+ = empujar		
	26	A _{n1} Carga axial en el eje de entrada (+ / -)		[N]	- = tirar		
E) APLICACIÓN							
#	27	Tipo de aplicación					
	28	Ciclo de trabajo	Tiempo de ciclo %	Par a la salida del reductor [Nm]	Velocidad a la salida del reductor [min ⁻¹]		
			***	***			
			***	***			
			***	***			
	29	Notas sobre el Ciclo de trabajo :					
	30	Validación según clasificación FEM	T-	L-	M-		
	31	Grado de intermitencia		[%]			
	32	T _{AMB} Rango de temperatura ambiente		[°C]			
#	33	Altitud respecto el nivel del mar		[m]			
	34	Tipo de ambiente	espacio confinado cubierto	espacio amplio cubierto	exterior		
F) NOTAS							
	35	Notas y requisitos añadidos solicitados por clientes :					
# Obligatorio para la selección							



Para la selección de los reductores en versión ATEX, ver también el capítulo específico la página 329.

12.1 Selección de los motorreductores

a) Determinar el factor de servicio f_s en función del tipo de carga (factor K), del número de arranques por hora Z_r y del número de horas de funcionamiento.

b) A partir del par M_{r2} , conociendo n_2 , y el rendimiento dinámico η_d , calcular la potencia de entrada.

$$P_{r1} = \frac{M_{r2} \cdot n_2}{9550 \cdot \eta_d} \text{ [kW]} \quad (7)$$

El valor de η_d para el reductor en cuestión se obtiene con las indicaciones del párrafo 6.

c) Buscar en las tablas de datos técnicos de los motorreductores la que corresponda a una potencia normalizada P_n :

$$P_n \geq P_{r1} \quad (8)$$

Si no se indica lo contrario, la potencia P_n de los motores indicada en el catálogo, se refiere al servicio continuo S1.

Para los motores utilizados en condiciones distintas de S1, será necesario identificar el tipo de servicio previsto de acuerdo con las normas CEI 2-3/IEC 34-1.

En particular, para servicios de S2 a S8 y para tamaños de motores iguales o inferiores a 132, es posible obtener un incremento de la potencia con respecto a la prevista para el servicio continuo. Por lo tanto, la condición a satisfacer será:

$$P_n \geq \frac{P_{r1}}{f_m} \quad (9)$$

El factor de incremento f_m se obtiene de la tabla (A9).

12.2 Relación de intermitencia

$$I = \frac{t_f}{t_f + t_r} \cdot 100 \quad (10)$$

t_f = tiempo de funcionamiento carga constante

t_r = tiempo de reposo



(A 9)

	SERVICIO					
	S2			S3*		
	Duración del ciclo [min]			Relación de intermitencia (I)		
	10	30	60	25%	40%	60%
f_m	1.35	1.15	1.05	1.25	1.15	1.1

* La duración del ciclo deberá ser, no obstante, igual o inferior a 10 minutos. Si fuese superior, consulte con nuestro Servicio Técnico.

En la sección correspondiente a la potencia instalada P_n , seleccionar en esta el reductor o el motorreductor que desarrolle la velocidad de funcionamiento mas próxima a la velocidad n_2 deseada y para la cual el factor de seguridad S sea igual o superior al factor de servicio f_s .

El factor de seguridad se obtiene según la formula:

$$S = \frac{M_{n2}}{M_2} = \frac{P_{n1}}{P_1} \quad (11)$$

Las tablas de datos técnicos de los motorreductores se refieren a la velocidad de motores de 2, 4 y 6 polos alimentados a 50 Hz. Si se prevé la utilización de motores con velocidades distintas a las indicadas, la selección deberá realizarse de acuerdo con el procedimiento de selección de reductores.

12.3 Selección de reductores y reductores predispuestos para motores IEC

a) Determinar el factor de servicio f_s .

b) Conociendo el par de salida M_{r2} de salida requerido por la aplicación, se procede a la definición del par de cálculo:

$$M_{c2} = M_{r2} \cdot f_s \quad (12)$$

c) A partir de la velocidad a la salida n_2 requerida y la de la entrada n_1 disponible, se calcula la relación de reducción:

$$i = \frac{n_1}{n_2} \quad (13)$$



Disponiendo de los datos de M_{c2} y de i , se buscará en las tablas correspondientes a la velocidad n_1 el reductor que, en función de la relación de reducción $[i]$ más próxima a la calculada, tenga un par nominal:

$$M_{n2} \geq M_{c2} \quad (14)$$

Si al reductor seleccionado debe acoplarse un motor eléctrico, verificar la compatibilidad consultando el párrafo "PREDISPOSICIONES POSIBLES".

13 VERIFICACIONES

Una vez realizada la selección del reductor, o motorreductor, se recomienda efectuar las siguientes verificaciones:

a) Potencia térmica

Asegurarse que la potencia térmica del reductor tenga un valor igual o mayor a la potencia requerida por la aplicación según la ecuación (3) en la Pág. 7; en caso contrario, seleccionar un reductor de tamaño superior o bien prever un sistema de refrigeración forzada.

b) Par máximo

En general, el par máximo (entendido como pico de carga instantáneo) aplicable al reductor no deberá superar el 200 % del par nominal M_{n2} ; por lo tanto, verificar que este límite no sea superado, adoptando si fuese necesario, los dispositivos adecuados para la limitación del par.

Para los motores trifásicos de doble polaridad es necesario prestar especial atención al par de conmutación instantáneo que se genera durante la conmutación de alta a baja velocidad, ya que este valor puede ser decididamente más alto que el propio par máximo. Un método simple y económico de reducir dicho par consiste en alimentar sólo dos fases del motor durante la conmutación (el tiempo de alimentación a dos fases puede ser regulado a través de un relé temporizado):

$$M_{g2} = 0.5 \cdot M_{g3}$$

M_{g2} = Par de conmutación alimentando 2 fases

M_{g3} = Par de conmutación alimentando 3 fases

En todo caso, se recomienda contactar nuestro Servicio Técnico.

c) Cargas radiales

Verificar que las cargas radiales que actúan sobre los ejes de entrada y/o salida se encuentren dentro de los valores de catálogo admitidos. Si son superiores, aumentar el tamaño del reductor o modificar el apoyo de las cargas.

Recordamos que todos los valores indicados en el catálogo se refieren a cargas aplicadas en el punto medio de la parte externa del eje por lo que, en fase de verificación, es indispensable tener en cuenta esta condición procediendo a determinar, en caso necesario, con las fórmulas adecuadas, la carga admisible a la distancia x_{1-2} deseada. Véanse los párrafos correspondientes a las cargas radiales.



d) Cargas axiales

También, las posibles cargas axiales deben ser comparadas con las admisibles.

En el caso de cargas axiales muy elevadas o combinadas con cargas radiales, se recomienda consultar con nuestro Servicio Técnico.

e) Arranques / hora

Para servicios diferentes de S1, con un número destacado de arranques / hora se deberá tener en cuenta un factor Z (determinable con las indicaciones presentes en el capítulo de motores) que define el número máximo de arranques específico para la aplicación requerida.

14 INSTALACIÓN

Es muy importante para la instalación del reductor, atenerse a las siguientes normas:

a) Asegurarse de que la fijación del reductor sea estable para evitar vibraciones. Instalar (si se prevé choques, sobrecargas prolongadas o posibles atascos) acoplamientos hidráulicos, embragues, limitadores de par, etc.

b) En fase de pintura se deberán proteger las superficies mecanizadas y el labio externo de los retenes para evitar que la pintura reseque la goma, perjudicando la estanqueidad del propio retén.

c) Los elementos que van acoplados a los ejes de salida del reductor deben ser mecanizados con tolerancia ISO H7 para evitar (ajustes forzados) bloqueos excesivos, durante la fase de montaje que podrían producir daños irreparables en el reductor. Para el montaje y desmontaje de dichos elementos se recomienda el empleo de tirantes y extractores adecuados, utilizando el taladro roscado presente en los extremos de los ejes.

d) Las superficies de contacto deberán estar limpias y ser tratadas con productos protectores antes del montaje, para evitar la oxidación y el consiguiente bloqueo de las piezas.

e) Antes de la puesta en marcha del reductor, verificar que la maquina que lo incorpora esté conforme a las disposiciones de la Directiva Máquinas 2006/42/CE y sucesivas actualizaciones.

f) Antes de la puesta en marcha de la maquina, asegurarse que la posición del nivel de lubricante esté conforme a la posición de montaje del reductor y que la viscosidad sea la adecuada al tipo de carga (consultar el Manual de Uso y Mantenimiento disponible en la página web www.bonfiglioli.com).

g) En el caso de instalación al aire libre es necesario aplicar protecciones adecuadas con la finalidad de evitar la exposición directa a los agentes atmosféricos y a la radiación solar.



14.1 Montaje del servomotor mediante aro de apriete (entrada tipo SC)

Girar el aro de apriete hasta alinear la entalla en correspondencia con la existente en el eje de entrada del reductor.

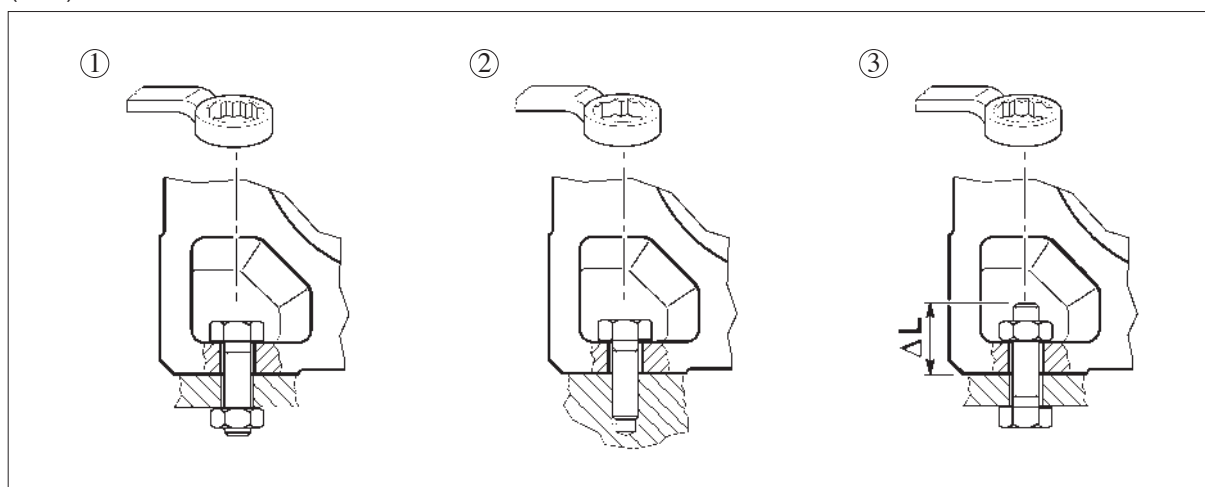
Si el eje del motor está dotado de chaveta, esta debe eliminarse y el chavetero correspondiente debe hallarse alineado sobre el mismo plano, dispuesto en la misma parte del tornillo de apriete. Una vez orientado así el eje del motor, situar la brida a tope con la brida del reductor y apretar los tornillos de fijación.

Introducir una llave dinamométrica a través del taladro situado en la cara lateral de la brida y apretar el tornillo con el par indicado en la tabla de dimensiones.

15 INSTRUCCIONES DE INSTALACION

Los esquemas incluidos en la tabla (A10) se representan 3 formas posibles para la instalación de los reductores tipo A, a la estructura de la máquina operadora. Para cada uno de estos casos, en la tabla (A11) están indicadas las dimensiones de los tornillos hexagonales a utilizar. Además, para facilitar el montaje aconsejamos el uso de una llave del tipo mostrado en la tabla (A10).

(A 10)



(A 11)

	Tipo de tornillo			
	①	②	③	ΔL (mm)
A 05	M8x22	M8x20	M8x ...	22
A 10	M8x25	M8x20	M8x ...	20
A 20	M8x25	M8x20	M8x ...	20
A 30	M10x30	M10x25	M10x ...	25
A 35	M10x30	M10x25	M10x ...	25
A 41	M12x35	M12x30	M12x ...	30

	Tipo de tornillo			
	①	②	③	ΔL (mm)
A 50	M14x45	M14x40	M14x ...	35
A 55	M14x40	M14x40	M14x ...	35
A 60	M16x50	M16x45	M16x ...	40
A 70	M20x60	M20x55	M20x ...	45
A 80	M24x70	M24x65	M24x ...	55
A 90	M24x90	M24x80	M24x ...	65



16 ALMACENAJE

Para un correcto almacenaje de los productos recibidos es necesario respetar las reglas siguientes:

- a) Excluir las zonas al aire libre, zonas expuestas a la intemperie o con excesiva humedad.
- b) Evitar el contacto directo con el pavimento interponiendo siempre bases de madera o similares.
- c) Para periodos de almacenaje prolongados, las superficies de unión como bridas, ejes y acoplamientos deberán protegerse con productos antioxidantes adecuados (Mobilarm 248 o equivalente).

En este caso, los reductores deberán ser posicionados con el tapón respiradero en la posición más alta y llenados totalmente de aceite.

Antes de su puesta en marcha, los reductores deberá restablecerse el nivel con la correcta cantidad y el tipo de lubricante (consultar el Manual de Uso y Mantenimiento disponible en la página web www.bonfiglioli.com).

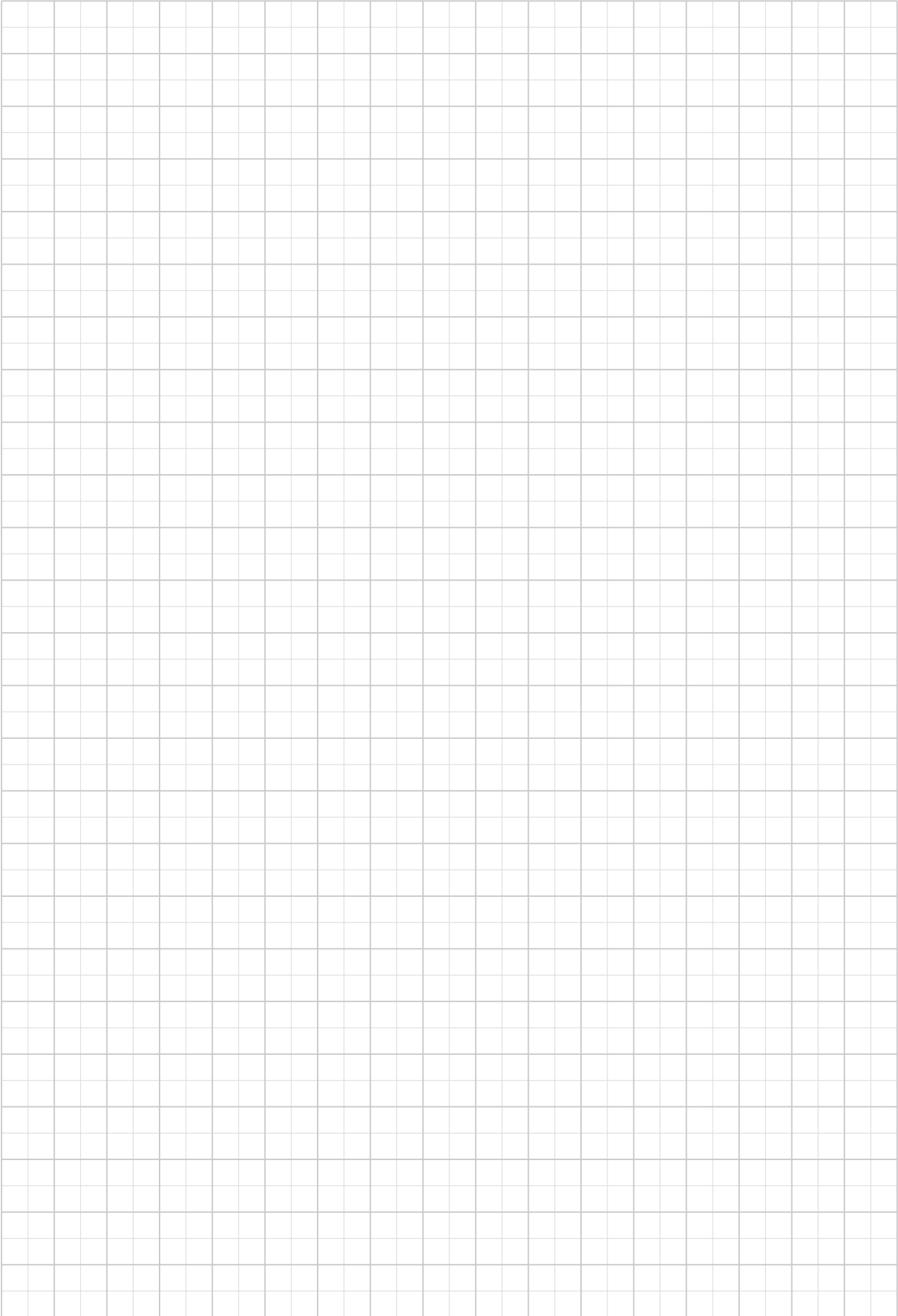
17 CONDICIONES DE SUMINISTRO

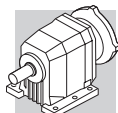
Los reductores se suministran como sigue:

- a) Preparados para su instalación en la posición de montaje especificada en el pedido.
- b) Verificados de acuerdo con las especificaciones internas;
- c) Con las superficies de acoplamiento sin pintar;
- d) Equipados con las tuercas y espárragos de montaje previstos para el montaje de motores (versión IEC).
- e) Equipados con protecciones de material plástico en los ejes;
- f) Equipados con cáncamos de suspensión (cuando corresponda).

18 ESPECIFICACIONES DE PINTURA

Las especificaciones de las pinturas aplicadas sobre los reductores (cuando corresponda) podrán ser solicitadas a las filiales o a los distribuidores que hayan suministrado los equipos.





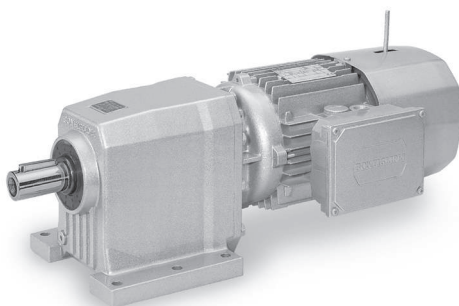
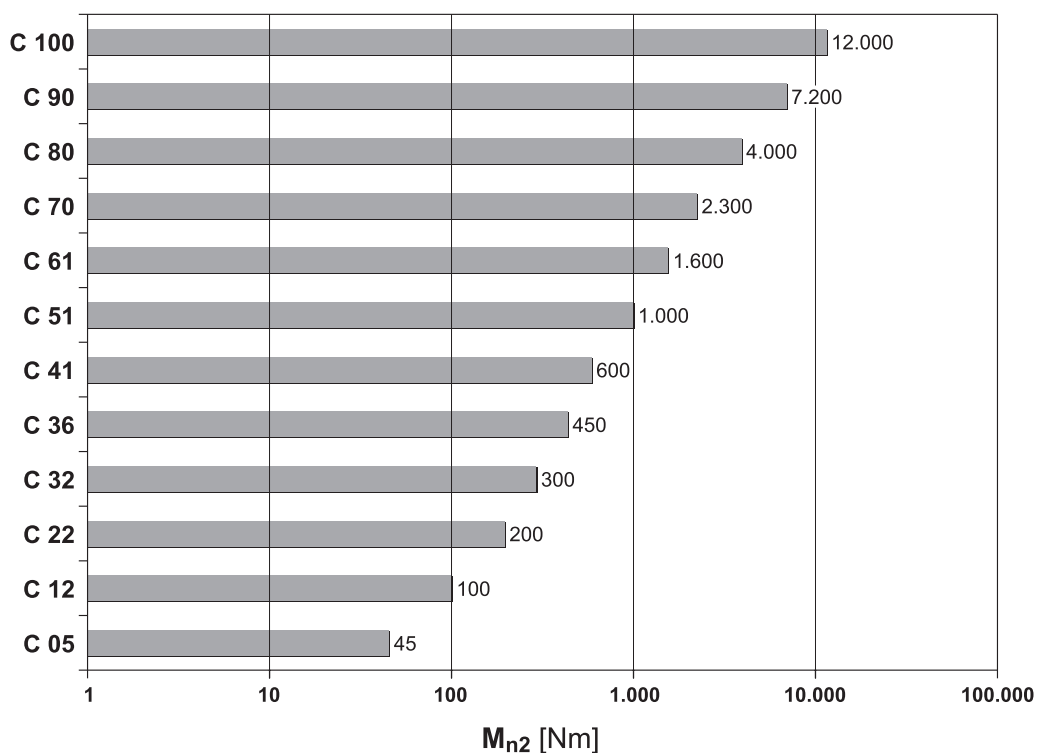
REDUCTORES COAXIALES SERIE C

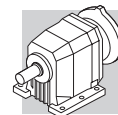
19 CARACTERÍSTICAS CONSTRUCTIVAS

Las principales características constructivas son:

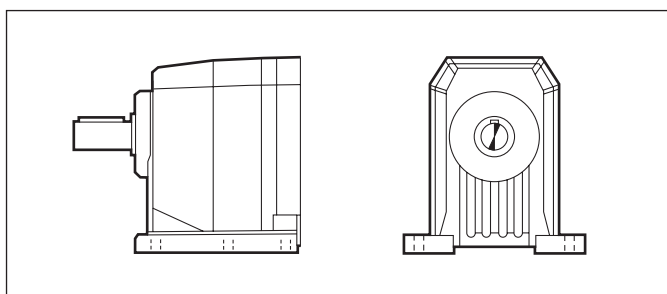
- modularidad
- diseño compacto
- montajes universales
- rendimientos elevados
- bajo nivel de ruido
- engranajes de acero aleado cementados y templados
- cajas de aluminio sin pintar en los tamaños 05, 12, 22, 32, y de fundición de alta resistencia, pintadas, para el resto de tamaños
- ejes de entrada y salida de acero de alta resistencia.

(B 12)





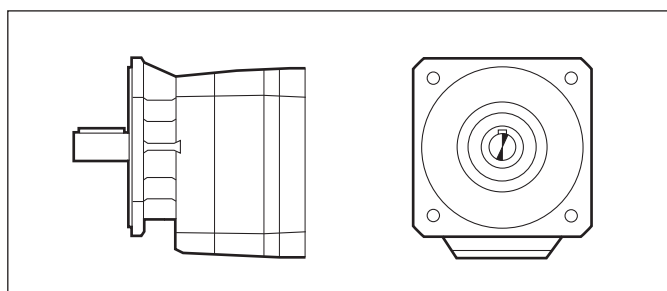
20 FORMAS CONSTRUCTIVAS



P

Patas integradas

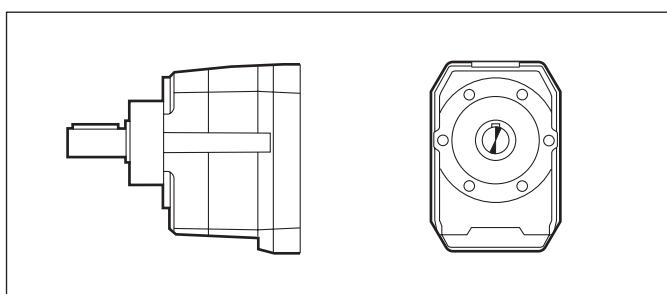
C 05 ... C 100



F

Brida integrada

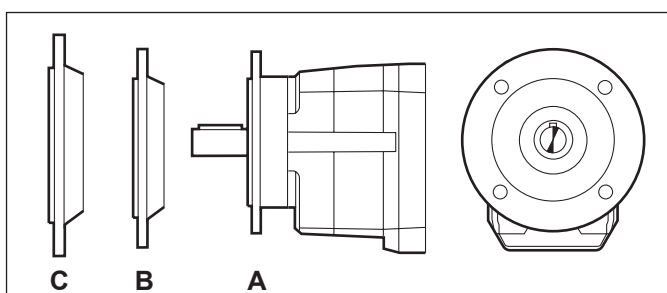
C 05 ... C 32
C 70 ... C 100



U

Caja universal UNIBOX

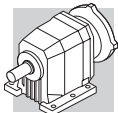
C 12 ... C 61



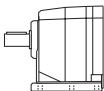
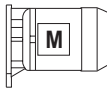
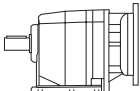
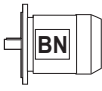
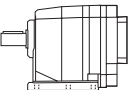
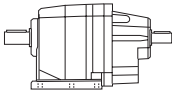
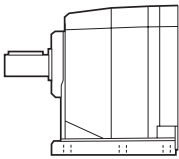
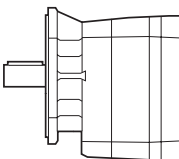
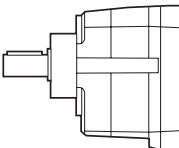
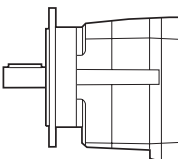
UF

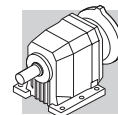
UNIBOX brida de salida
intercambiable

C 12 ... C 61

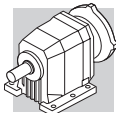


21 DESIGNACIÓN

REDUCTOR							
C	32	2	F	52.4	S1	B5	
							OPCIONES
							POSICIÓN DE MONTAJE C...P: B3 (estandar), B6, B7, B8, V5, V6 C...F/U/UF: B5 (estandar), B51, B53, B52, V1, V3
							IDENTIFICACIÓN DE LA ENTRADA
						 (C05...C100)	S05 ... S5 
						 (C12...C100)	IEC_ P63 ... P280 
						 (C12...C61)	SK_  SC_ 
						 (C12...C100)	HS
							RELACIÓN DE REDUCCIÓN
							FORMA CONSTRUCTIVA
						 P (C05...C100)	 F (C05...C32) (C70...C100)
						 U (C12...C61)	 UFA UFB UFC (C12...C61)
							Nº DE ETAPAS DE REDUCCIÓN 2, 3, 4
							TAMAÑO REDUCTOR 05, 12, 22, 32, 36, 41, 51, 61, 70, 80, 90, 100
							TIPO: C = Coaxial



MOTOR					FRENO				
M	1LA 4	230/400-50	IP54	CLF	W	FD	7.5	R	SB 220 SA
					OPCIONES				
					ALIMENTACIÓN FRENO				
					TIPO RECTIFICADOR AC/DC NB, SB, NBR, SBR				
					PALANCA DESBLOQUEO FRENO R, RM				
					PAR DE FRENADO				
					TIPO DE FRENO FD (freno c.c.) FA (freno c.a.)				
					POSICIÓN CAJA DE BORNES W (por defecto), N, E, S				
					FORMA CONSTRUCTIVA — (motor integrado) B5 (motor IEC)				
					CLASE DE AISLAMIENTO CL F estandar CL H opción				
					GRADO DE PROTECCIÓN IP55 standard (IP54 - motor freno)				
					TENSIÓN - FRECUENCIA				
					NÚMERO DE POLOS 2, 4, 6, 2/4, 2/6, 2/8, 2/12, 4/6, 4/8				
					TAMAÑO MOTOR 0B ... 5LA (motor integrado) 63A ... 280SA (motor IEC)				
					TIPO MOTOR M = trifásico integrado BN = trifásico IEC				



21,1 Opciones reductores

LUBRICACIÓN

Los reductores C05, C12, C22, C32, C36 y C41, normalmente se llenan de aceite en fábrica en la versión estándar. Los reductores C51, C61, C70, C80, C90 y C100, normalmente se suministran sin lubricar en la versión estándar.

Sin embargo, para todos los tamaños de reductores llenados de fábrica con aceite, es posible solicitar el suministro con más tipos de aceite, seleccionables según lo definido en la siguiente tabla.

La opción no está disponible para los reductores C70, C80, C90 y C100 en las posiciones de montaje V6 y V3.

LUBRICACIÓN	Tipo	Designacion	Productor
LU	Polialfaolefina (PAO)	OMALA S4 GX 150	
LY	Polialfaolefina (PAO)	OMALA S4 GX 220	
LV	Polialfaolefina (PAO)	OMALA S4 GX 320	
LW	Polialfaolefina (PAO)	OMALA S4 GX 460	
LH	Poliglicol (PAG)	OMALA S4 WE 150	
LS	Poliglicol (PAG)	OMALA S4 WE 220	
LO*	Poliglicol (PAG)	OMALA S4 WE 320	
LK	Poliglicol (PAG)	OMALA S4 WE 460	
LN ^[1]	Base Mineral EP	OMALA S2 G 150	
LZ ^[1]	Base Mineral EP	OMALA S2 G 220	
LI ^[1]	Base Mineral EP	OMALA S2 G 320	
LJ ^[1]	Base Mineral EP	OMALA S2 G 460	
LA	Uso alimentario	KLUBERSYNTH UH1 6-150	
LB	Uso alimentario	KLUBERSYNTH UH1 6-220	
LC	Uso alimentario	KLUBERSYNTH UH1 6-320	
LD	Uso alimentario	KLUBERSYNTH UH1 6-460	

* Salvo indicación contraria, los reductores C05, C12, C22, C32, C36 y C41 suministrados con carga de lubricante utilizan aceite OMALA S4 WE 320..

[1] Se permite el uso de aceite mineral en motorreductores con factor de servicio $f_s \geq 1,30$.

SO

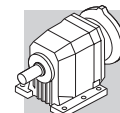
Los reductores C05, C12, C22, C32, C36, C41, normalmente suministrados con lubricante por parte de BONFIGLIOLI RIDUTTORI, se suministran sin lubricante.

DL

Eje de salida con doble retén.

DV

Dos retenes en el eje de entrada. (Disponible únicamente en los motorreductores compactos).



VV

Reten de fluoro-elastómero en el eje rápido.

PV

Todos los retenes de fluoro-elastómero.

RB

Los reductores tipo C12, C22, C32, C36, C41, C51 y C61 que se suministran habitualmente con valores estándar de juego angular, en este caso se suministran con valores de juego angular reducido. Los valores correspondientes de juego angular se detallan en la siguiente tabla:

(B 13)

		standard		RB	
C 05	i =	5.5 ; 9.3 ; 15.6 ; 27.1	6.7 ; 7.4 ; 11.2 ; 12.5 ; 18.9 ; 21.0 ; 32.8 ; 44.7	—	
	φ [°]	34	29		
C 12	i =	2.8 6.2	7.6 66.2	2.8 6.2	7.6 66.2
	φ [°]	55	29	—	13
C 22	i =	2.7 6.1	7.1 261.0	2.7 6.1	7.1 261.0
	φ [°]	47	25	—	12
C 32	i =	2.9 6.3	7.2 274.7	2.9 6.3	7.2 274.7
	φ [°]	39	21	—	11
C 36	i =	2.7 5.8	6.8 19.0 22.1 848.5	2.7 5.8	6.8 848.5
	φ [°]	37	20 17	—	10
C 41 2	i =	2.7 6.0	6.4 44.8	2.7 6.0	6.4 44.8
	φ [°]	34	17	—	9
C 41 3/4	i =	—	28.5 855.5	—	28.5 855.5
	φ [°]	—	15	—	9
C 51 2	i =	2.6 5.6	7.0 57.0	2.6 5.6	7.0 57.0
	φ [°]	32	15	—	8
C 51 3/4	i =	—	21.8 884.9	—	21.8 884.9
	φ [°]	—	13	—	8
C 61 2	i =	2.8 6.0	6.7 38.0	2.8 6.0	6.7 38.0
	φ [°]	27	13	12	7
C 61 3/4	i =	—	26.8 796.1	—	26.8 796.1
	φ [°]	—	11	—	7
C 70	i =	4.6 34.7	41.3 1476	—	
	φ [°]	18	20		
C 80	i =	5.6 39.1	43.5 1481	—	
	φ [°]	16	18		
C 90	i =	5.2 35.1	39.4 1240	—	
	φ [°]	16	18		
C 100	i =	4.9 29.6	34.3 1081	—	
	φ [°]	14	16		

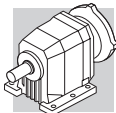
Para el momento de la entrega por favor póngese en contacto con la red de ventas Bonfiglioli.

BP

Los reductores, que generalmente se suministran con un tapón de ventilación abierto, se suministran con un tapón de ventilación de válvula. La calibración de la válvula puede variar de 0,10 a 0,15 bar dependiendo del tipo de tapón. La válvula se abre a intervalos y permite la ventilación de la presión interna evitando la entrada de cuerpos extraños.

Para conocer la disponibilidad de opciones, consulte el capítulo "Posiciones de montaje y enchufes de servicio" del Manual de instalación, operación y mantenimiento (disponible en: www.bonfiglioli.com).

Si es necesario, póngase en contacto con el Servicio Técnico de Bonfiglioli.



PROTECCIÓN DE LA SUPERFICIE

Cuando no se requiere ninguna clase de protección específica, las superficies de los reductores (ferrosas) pintadas están protegidas al menos con la clase de corrosividad C2 (UNI EN ISO 12944-2). Para mejorar la resistencia a la corrosión atmosférica, los reductores se pueden entregar con una protección de superficie **C3** y **C4**, que se obtiene a partir del pintado completo del reductor.

(B 14)

PROTECCIÓN SUPERFICIE	Ambientes típicos	Temperatura máxima superficie	Clase corrosividad conforme a UNI EN ISO 12944-2
C3	Ambientes industriales y urbanos con una humedad relativa de hasta el 100% (contaminación atmosférica media)	120°C	C3
C4	Zonas industriales, zonas costeras, fábrica de productos químicos, con una humedad relativa de hasta el 100% (alta contaminación atmosférica)	120°C	C4

Los reductores con la protección opcional de clase C3 o C4 están disponibles en una variedad de colores.

Si no se solicita color específico (ver la opción “PINTURA”) el acabado de los reductores será en RAL 7042.

Los reductores también se pueden suministrar con protección de la superficie para la clase de corrosividad **C5** según la norma UNI EN ISO 12944-2. Póngase en contacto con nuestro Servicio Técnico para más detalles.

PINTURA

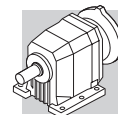
Los reductores con la protección opcional de clase C3 o C4 están disponibles en los colores que figuran en la siguiente tabla.

(B 15)

PINTURA	Color	Número RAL
RAL7042*	Gris Tráfico A	7042
RAL5010	Azul genciana	5010
RAL9005	Negro Jet	9005
RAL9006	Aluminio Blanco	9006
RAL9010	Blanco Puro	9010
RAL7035	Gris claro	7035
RAL7001	Gris-plata	7001
RAL5015	Azul cielo	5015
RAL7037	Gris polvoriento	7037
RAL5024	Azul pastel	5024

* Los reductores se suministran en este color estándar si no se especifica ningún otro color.

NOTA - Las opciones “PINTURA” sólo se pueden especificar en combinación con las opciones “PROTECCIÓN DE LA SUPERFICIE”.



DOCUMENTACIÓN

Certificado de conformidad (AC)

Documento en el cual se certifica la conformidad del producto con lo indicado en el pedido y su fabricación según los procedimientos estándar de producción y control que establece el sistema de calidad de Bonfiglioli Riduttori.

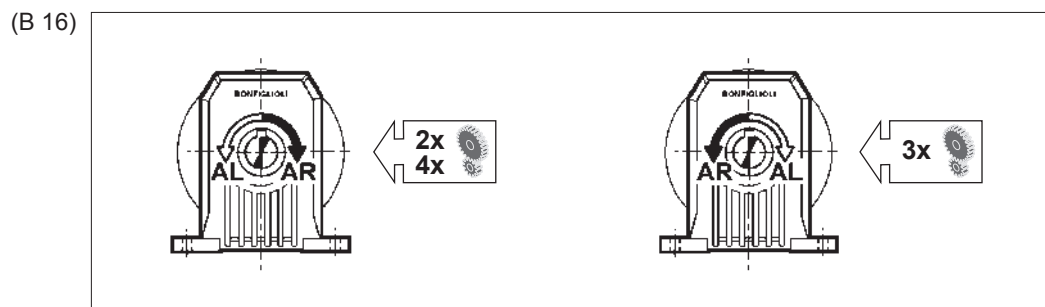
Certificado de prueba (CC)

La obtención de este certificado conlleva verificar la conformidad del producto con el pedido, realizar inspecciones visuales de carácter general y comprobar las dimensiones de acoplamiento. Además, exige realizar controles generales de funcionamiento en vacío y comprobar la eficacia de las juntas de retén con el sistema estático y en funcionamiento. Para llevar a cabo la prueba se utiliza una muestra estadística del lote de expedición.

21,2 Opciones motores

AL, AR

Para los motorreductores equipados con motor compacto serie M, está disponible la opción antirretorno, colocado en el mismo motor como se indica en la sección de motores eléctricos de este catálogo. La tabla siguiente muestra el sentido de rotación libre del reductor en base al cual se debe de hacer la selección de la opción.



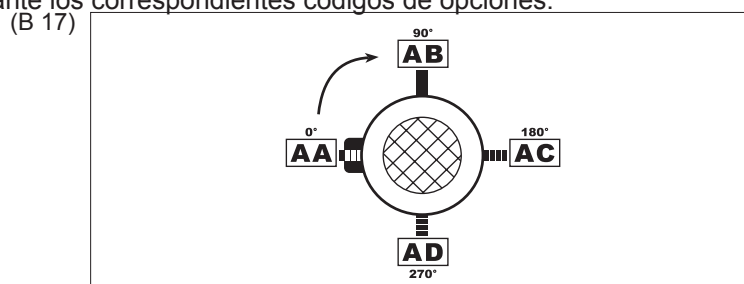
Para mayor información sobre las opciones, consultar el correspondiente capítulo en la sección de motores eléctricos.

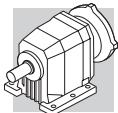
22 POSICION DE MONTAJE Y ORIENTACIÓN DE LA CAJA DE BORNES

La orientación de la caja de bornes del motor se identifica observando el motor por el lado del ventilador; la orientación estándar está resaltada en negrita (W).

Posición angular de la palanca del desbloqueo del freno

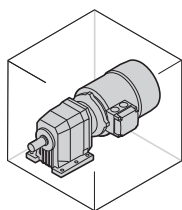
En los motores freno, la palanca de desbloqueo del freno (opcional) tiene la orientación estándar a 90° respecto a la caja de bornes (posición AB); en caso de requerir una orientación distinta, especifíquese mediante los correspondientes códigos de opciones.



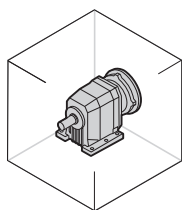


C ... P

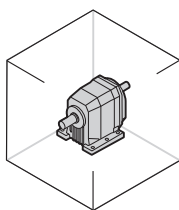
B3



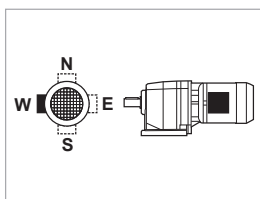
_S



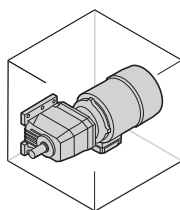
_P(IEC) _SK / _SC



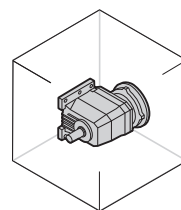
_HS



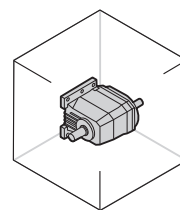
B6



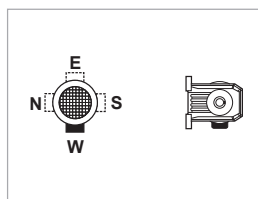
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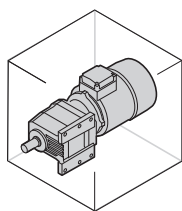
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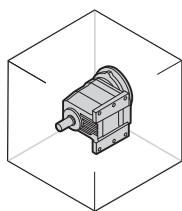
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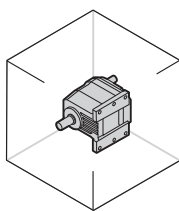
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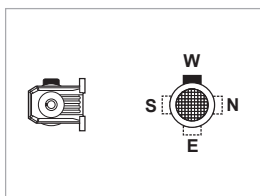
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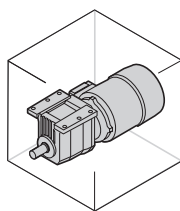
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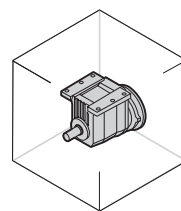
_HS



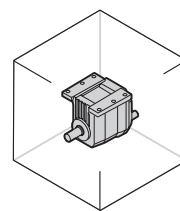
B8



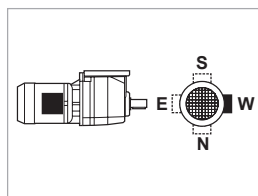
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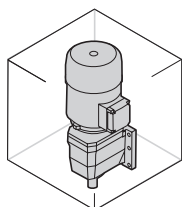
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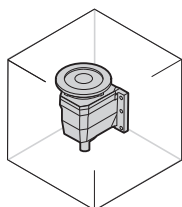
_HS



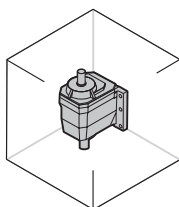
V5



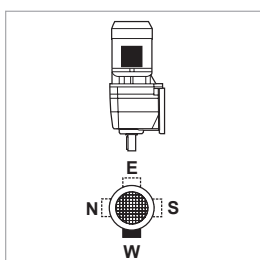
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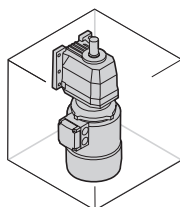
_P(IEC) _SK / _SC



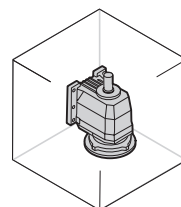
_HS



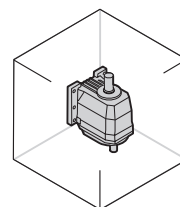
V6



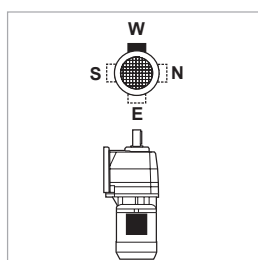
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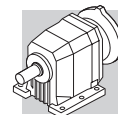
_P(IEC) _SK / _SC



_HS



W = Default

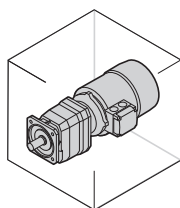


C ... F

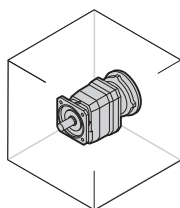
C ... U

C ... UF

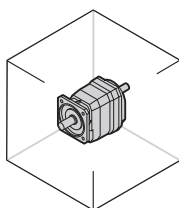
B5



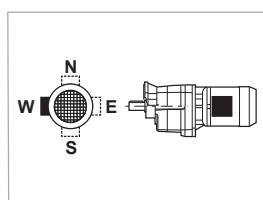
_S



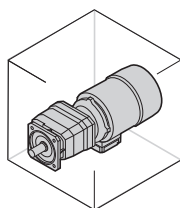
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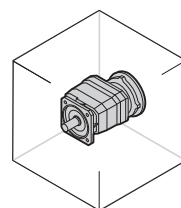
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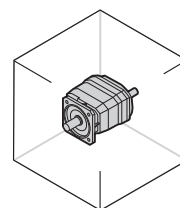
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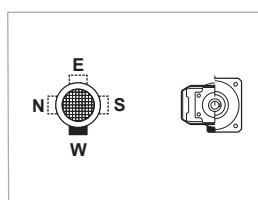
_S



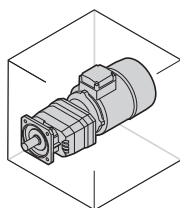
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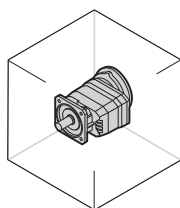
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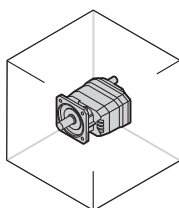
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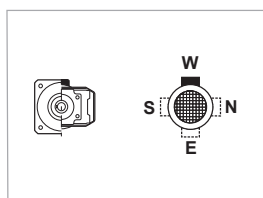
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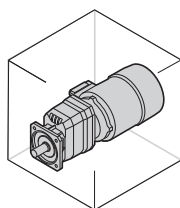
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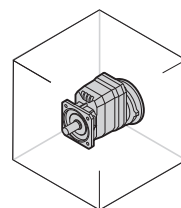
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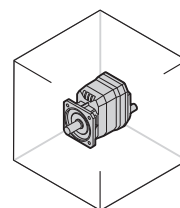
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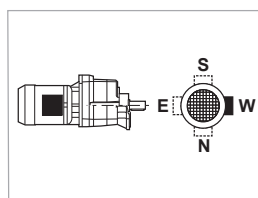
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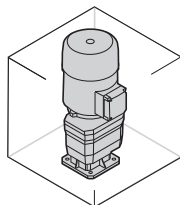
_P(IEC) _SK / _SC



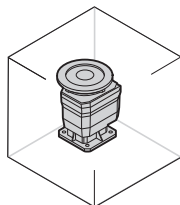
_HS



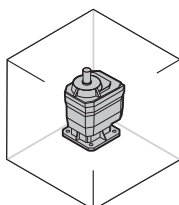
V1



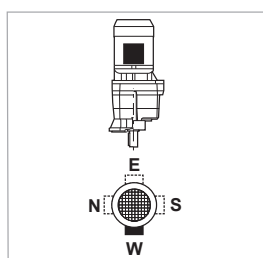
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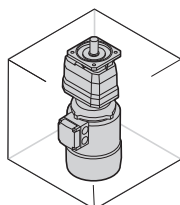
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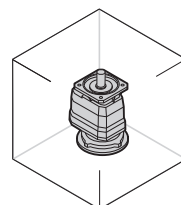
_HS



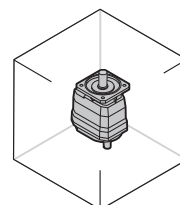
V3



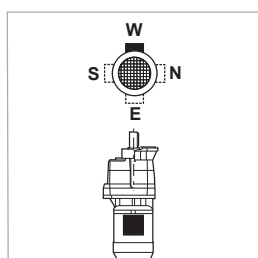
_S



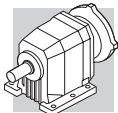
_P(IEC) _SK / _SC



_HS



W = Default



23 CARGAS RADIALES

Los órganos de transmisión acoplados en los ejes de entrada y/o de salida del reductor generan una fuerza cuya resultante actúa en sentido radial sobre el mismo eje.

El valor de dichas cargas debe ser compatible con la capacidad del sistema eje – rodamientos del reductor para soportarlas, en particular el valor absoluto de la carga aplicada (R_{c1} para el eje de entrada, R_{c2} para el eje de salida) deberá ser inferior al valor nominal (R_{n1} para el eje de entrada, R_{n2} para el eje de salida) indicado en las tablas de datos técnicos.

En las siguientes fórmulas, el subíndice (1) se refiere a los valores correspondientes al eje rápido y el subíndice (2) a los valores correspondientes al eje lento. La carga generada por un sistema de transmisión externo puede ser calculada, con una buena aproximación, mediante la siguiente formula:

$$R_{c1} [N] = \frac{2000 \cdot M_1 [Nm] \cdot K_r}{d [mm]} \quad ; \quad R_{c2} [N] = \frac{2000 \cdot M_2 [Nm] \cdot K_r}{d [mm]} \quad (15)$$

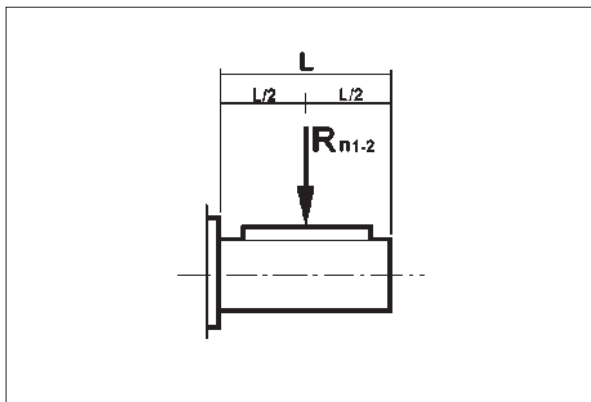
(B 18)

M_1 [Nm]	Par aplicado en el eje de entrada
M_2 [Nm]	Par suministrado en el eje de salida
d [mm]	Diámetro primitivo de la pieza montada sobre el eje
$K_r = 1$	Transmisión por cadena

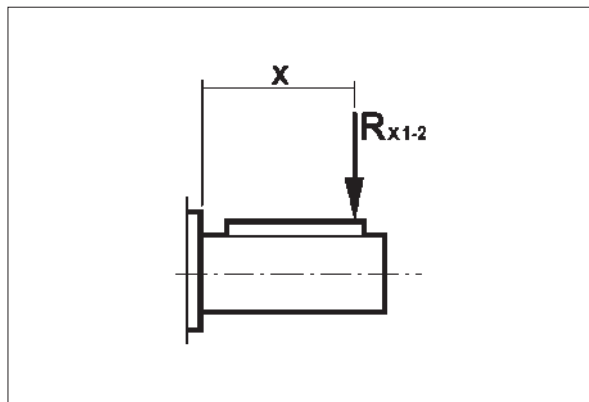
$K_r = 1,25$	Transmisión por engranaje
$K_r = 1,5$	Transmisión por correa trapecial
$K_r = 2,0$	Transmisión por correa plana

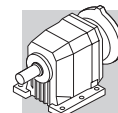
Dependiendo del punto de aplicación de la carga sobre el eje, la verificación de compatibilidad se procederá de diverso modo diverso y en particular:

(B 19)



(B 20)





a) Aplicación de la carga en el punto medio del eje, tabla (B19)

La carga anteriormente calculada se deberá comparar con los correspondientes valores nominales indicados en el catálogo y deberá verificarse:

$$R_{c1} \leq R_{n1} \text{ [eje de entrada]}$$

o

$$R_{c2} \leq R_{n2} \text{ [eje de salida]}$$

b) Aplicaciones desplazadas de la mitad del eje, tabla (B20)

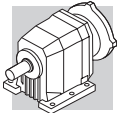
Cuando la carga se aplica a una distancia “x” del resalte del eje se debe recalcular el valor admisible a dicha distancia.

El nuevo valor se distingue con el símbolo R_{x1} (eje rápido) y R_{x2} (eje lento) y se obtiene a partir de los valores de catálogo R_{n1} y R_{n2} respectivamente a través del factor:

$$\frac{a}{b+x} \quad (16)$$

(B 21)

	Constantes del reductor					
	Eje de salida			Eje de entrada		
	a	b	c	a	b	c
C 05 2	38	18	250	—	—	—
C 12 2	46	26	450	21	1	300
C 22 2	53	28	550	40	20	350
C 22 3	53	28	550	21	1	300
C 32 2	60.5	30.5	750	41.5	21.5	350
C 32 3	60.5	30.5	750	21	1	300
C 36 2 - C 36 3	69.5	34.5	800	51.5	26.5	450
C 36 4	69.5	34.5	800	21	1	300
C 41 2 - C 41 3	69.5	34.5	850	51.5	26.5	450
C 41 4	69.5	34.5	850	40	20	350
C 51 2 - C 51 3	76.5	36.5	900	51.5	26.5	450
C 51 4	76.5	36.5	900	41.5	21.5	350
C 61 2 - C 61 3	95.5	45.5	1000	57.5	27.5	450
C 61 4	95.5	45.5	1000	51.5	26.5	450
C 70 2 - C 70 3	114	54	1200	86	31	1000
C 70 4	114	54	1200	49.5	24.5	450
C 80 2 - C 80 3	131	61	1500	86	31	1000
C 80 4	131	61	1500	49.5	24.5	450
C 90 2 - C 90 3	161	76	2000	116	46	1400
C 90 4	161	76	2000	49.5	24.5	450
C 100 2 - C 100 3	163.5	58.5	2500	116	46	1400
C 100 4	163.5	58.5	2500	49.5	24.5	450



El procedimiento de verificación comprende los siguientes pasos:

EJE DE ENTRADA

1. Cálculo de:

$$R_{x1} = R_{n1} \cdot \frac{a}{b+x} \quad (17)$$

NOTA. Siempre que se cumpla:

$$\frac{L}{2} \leq x \leq c \quad (18)$$

Finalmente será necesario comprobar que:

$$R_{c1} \leq R_{x1} \quad (19)$$

EJE DE SALIDA

1. Cálculo de:

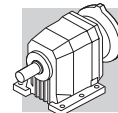
$$R_{x2} = R_{n2} \cdot \frac{a}{b+x} \quad (20)$$

NOTA. Siempre que se cumpla:

$$\frac{L}{2} \leq x \leq c \quad (21)$$

Finalmente será necesario comprobar que:

$$R_{c2} \leq R_{x2} \quad (22)$$



24 CARGAS AXIALES, A_{n1} , A_{n2}

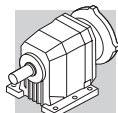
Las cargas axiales máximas admisibles en el eje de entrada [A_{n1}] y en el de salida [A_{n2}] se pueden obtener a partir de los correspondientes valores de la carga radial [R_{n1}] y [R_{n2}] mediante las siguientes expresiones:

$$\begin{aligned} A_{n1} &= R_{n1} \cdot 0.2 \\ A_{n2} &= R_{n2} \cdot 0.2 \end{aligned} \quad (23)$$

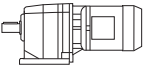
Los valores de las cargas axiales admisibles así calculados, están referidos a cargas axiales actuando al mismo tiempo que las cargas radiales nominales.

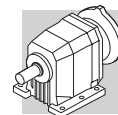
Únicamente en el caso en que la carga radial que actúe sobre el eje del reductor sea nula, se podrá considerar que la carga axial admisible [A_n] es el 50% del valor de la carga radial [R_n] admisible para el eje en cuestión.

Ante cargas axiales que superen los valores admisibles o de fuerzas axiales que resulten claramente dominantes sobre las cargas radiales, se recomienda contacten con el Servicio Técnico de Bonfiglioli Riduttori.

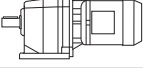


25 DATOS TÉCNICOS MOTORREDUCTORES

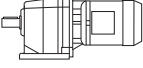
0.09 kW								
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
1.0	760	0.8	855.5	7000	C414_855.5 S05 M05A6	144	C414_855.5 P63 BN63A6	145
1.2	654	0.9	735.9	7000	C414_735.9 S05 M05A6	144	C414_735.9 P63 BN63A6	145
1.3	597	1.0	671.3	7000	C414_671.3 S05 M05A6	144	C414_671.3 P63 BN63A6	145
1.5	511	0.9	574.7	6500	C364_574.7 S05 M05A6	140	C364_574.7 P63 BN63A6	141
1.6	483	1.2	543.5	7000	C414_543.5 S05 M05A6	144	C414_543.5 P63 BN63A6	145
1.9	407	1.1	458.4	6500	C364_458.4 S05 M05A6	140	C364_458.4 P63 BN63A6	141
2.0	400	1.5	450.2	7000	C414_450.2 S05 M05A6	144	C414_450.2 P63 BN63A6	145
2.6	301	1.5	341.7	6500	C364_341.7 S05 M05A6	140	C364_341.7 P63 BN63A6	141
2.6	296	2.0	333.4	7000	C414_333.4 S05 M05A6	144	C414_333.4 P63 BN63A6	145
3.2	250	1.1	274.7	5500	C323_274.7 S05 M05A6	136	C323_274.7 P63 BN63A6	137
3.9	205	1.0	225.8	5000	C223_225.8 S05 M05A6	132	C223_225.8 P63 BN63A6	133
4.1	196	1.5	215.6	5500	C323_215.6 S05 M05A6	136	C323_215.6 P63 BN63A6	137
4.9	162	1.2	178.5	5000	C223_178.5 S05 M05A6	132	C223_178.5 P63 BN63A6	133
5.8	138	1.5	151.7	5000	C223_151.7 S05 M05A6	132	C223_151.7 P63 BN63A6	133
5.9	135	2.2	148.4	5500	C323_148.4 S05 M05A6	136	C323_148.4 P63 BN63A6	137
7.2	111	1.8	122.2	5000	C223_122.2 S05 M05A6	132	C223_122.2 P63 BN63A6	133
7.2	111	2.7	122.4	5500	C323_122.4 S05 M05A6	136	C323_122.4 P63 BN63A6	137
7.9	102	2.0	112.0	5000	C223_112.0 S05 M05A6	132	C223_112.0 P63 BN63A6	133
8.8	91	2.2	100.2	5000	C223_100.2 S05 M05A6	132	C223_100.2 P63 BN63A6	133
10.7	75	2.7	82.6	5000	C223_82.6 S05 M05A6	132	C223_82.6 P63 BN63A6	133
13.3	61	1.5	66.2	2000	C122_66.2 S05 M05A6	128	C122_66.2 P63 BN63A6	129
16.0	51	1.8	55.2	2000	C122_55.2 S05 M05A6	128	C122_55.2 P63 BN63A6	129
18.5	44	2.0	47.6	2000	C122_47.6 S05 M05A6	128	C122_47.6 P63 BN63A6	129
19.7	42	1.1	44.7	1170	C052_44.7 S05 M05A6	127		
20.8	39	2.3	42.3	2000	C122_42.3 S05 M05A6	128	C122_42.3 P63 BN63A6	129
21.8	38	1.2	40.3	1150	C052_40.3 S05 M05A6	127		
23.8	34	2.6	37.0	2000	C122_37.0 S05 M05A6	128	C122_37.0 P63 BN63A6	129
24.2	34	1.3	36.4	1140	C052_36.4 S05 M05A6	127		
26.8	31	1.5	32.8	1110	C052_32.8 S05 M05A6	127		
26.8	31	2.9	32.8	2000	C122_32.8 S05 M05A6	128	C122_32.8 P63 BN63A6	129
30	27	1.7	44.7	1170	C052_44.7 S0 M0B4	127		
33	25	1.8	40.3	990	C052_40.3 S0 M0B4	127		
37	22	2.0	36.4	980	C052_36.4 S0 M0B4	127		
41	20	2.3	32.8	960	C052_32.8 S0 M0B4	127		
42	19	2.3	21.0	1020	C052_21.0 S05 M05A6	127		
50	16	2.7	27.1	930	C052_27.1 S0 M0B4	127		
56	15	3.1	15.6	950	C052_15.6 S05 M05A6	127		
66	12	6.5	13.4	2000	C122_13.4 S05 M05A6	128	C122_13.4 P63 BN63A6	129
71	12	3.9	12.5	900	C052_12.5 S05 M05A6	127		
74	11	7.0	11.9	2000	C122_11.9 S05 M05A6	128	C122_11.9 P63 BN63A6	129
78	10	4.3	11.2	880	C052_11.2 S05 M05A6	127		
88	9	7.7	10.1	2000	C122_10.1 S05 M05A6	128	C122_10.1 P63 BN63A6	129

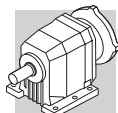


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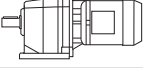
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
95	9	5.2	9.3	830	C052_9.3 S05 M05A6	127		
100	8	8.4	8.8	2000	C122_8.8 S05 M05A6	128	C122_8.8 P63 BN63A6	129
119	7	6.5	7.4	780	C052_7.4 S05 M05A6	127		
132	6	7.3	6.7	760	C052_6.7 S05 M05A6	127		
146	6	10.9	6.2	1960	C122_6.2 S05 M05A6	128	C122_6.2 P63 BN63A6	129
157	5	11.1	5.6	1850	C122_5.6 S05 M05A6	128	C122_5.6 P63 BN63A6	129
159	5	8.8	5.5	720	C052_5.5 S05 M05A6	127		
187	4	12.6	4.9	1810	C122_4.9 S05 M05A6	128	C122_4.9 P63 BN63A6	129
205	4	13.0	4.3	1730	C122_4.3 S05 M05A6	128	C122_4.3 P63 BN63A6	129
249	3	15.0	3.7	1650	C122_3.7 S05 M05A6	128	C122_3.7 P63 BN63A6	129
275	3	15.4	3.2	1580	C122_3.2 S05 M05A6	128	C122_3.2 P63 BN63A6	129
329	2	17.3	2.8	1510	C122_2.8 S05 M05A6	128	C122_2.8 P63 BN63A6	129

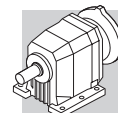
0.12 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
0.98	1061	0.9	884.9	10000			C514_884.9 P63 BN63B6	149
1.2	860	1.2	717.7	10000			C514_717.7 P63 BN63B6	149
1.5	681	0.9	855.5	7000	C414_855.5 S05 M05A4	144	C414_855.5 P63 BN63A4	145
1.6	643	1.6	808.0	10000			C514_808.0 P63 BN63A4	149
1.7	621	1.0	780.4	7000	C414_780.4 S05 M05A4	144	C414_780.4 P63 BN63A4	145
1.8	586	1.0	735.9	7000	C414_735.9 S05 M05A4	144	C414_735.9 P63 BN63A4	145
2.0	534	1.1	671.3	7000	C414_671.3 S05 M05A4	144	C414_671.3 P63 BN63A4	145
2.0	509	0.9	665.9	6500	C364_665.9 S05 M05A4	140	C364_665.9 P63 BN63A4	141
2.2	474	1.3	595.8	7000	C414_595.8 S05 M05A4	144	C414_595.8 P63 BN63A4	145
2.3	440	1.0	574.7	6500	C364_574.7 S05 M05A4	140	C364_574.7 P63 BN63A4	141
2.4	433	1.4	543.5	7000	C414_543.5 S05 M05A4	144	C414_543.5 P63 BN63A4	145
2.6	396	1.1	517.2	6500	C364_517.2 S05 M05A4	140	C364_517.2 P63 BN63A4	141
2.7	393	1.5	493.5	7000	C414_493.5 S05 M05A4	144	C414_493.5 P63 BN63A4	145
2.9	351	1.3	458.4	6500	C364_458.4 S05 M05A4	140	C364_458.4 P63 BN63A4	141
2.9	358	1.7	450.2	7000	C414_450.2 S05 M05A4	144	C414_450.2 P63 BN63A4	145
3.1	333	1.8	418.5	7000	C414_418.5 S05 M05A4	144	C414_418.5 P63 BN63A4	145
3.2	321	1.4	420.2	6500	C364_420.2 S05 M05A4	140	C364_420.2 P63 BN63A4	141
3.4	304	2.0	381.8	7000	C414_381.8 S05 M05A4	144	C414_381.8 P63 BN63A4	145
3.6	289	1.6	377.9	6500	C364_377.9 S05 M05A4	140	C364_377.9 P63 BN63A4	141
3.9	265	2.3	333.4	7000	C414_333.4 S05 M05A4	144	C414_333.4 P63 BN63A4	145
4.0	261	1.7	341.7	6500	C364_341.7 S05 M05A4	140	C364_341.7 P63 BN63A4	141
4.2	244	1.8	318.9	6500	C364_318.9 S05 M05A4	140	C364_318.9 P63 BN63A4	141
4.3	242	2.5	304.2	7000	C414_304.2 S05 M05A4	144	C414_304.2 P63 BN63A4	145
4.6	223	2.0	290.9	6500	C364_290.9 S05 M05A4	140	C364_290.9 P63 BN63A4	141
4.9	219	0.9	178.5	5000	C223_178.5 S05 M05B6	132	C223_178.5 P63 BN63B6	133
4.9	217	1.2	274.7	5500	C323_274.7 S05 M05A4	136	C323_274.7 P63 BN63A4	137
5.0	209	2.9	263.0	7000	C414_263.0 S05 M05A4	144	C414_263.0 P63 BN63A4	145



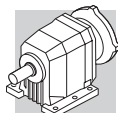
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n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
5.3	195	2.3	255.0	6500	C364_255.0 S05 M05A4	140	C364_255.0 P63 BN63A4	141
5.5	193	1.3	244.2	5500	C323_244.2 S05 M05A4	136	C323_244.2 P63 BN63A4	137
5.8	177	2.5	230.9	6500	C364_230.9 S05 M05A4	140	C364_230.9 P63 BN63A4	141
6.0	178	1.0	225.8	5000	C223_225.8 S05 M05A4	132	C223_225.8 P63 BN63A4	133
6.3	170	1.8	215.6	5500	C323_215.6 S05 M05A4	136	C323_215.6 P63 BN63A4	137
6.5	163	2.8	206.4	6500	C363_206.4 S05 M05A4	140	C363_206.4 P63 BN63A4	141
6.7	159	1.2	200.7	5000	C223_200.7 S05 M05A4	132	C223_200.7 P63 BN63A4	133
7.3	147	2.0	186.0	5500	C323_186.0 S05 M05A4	136	C323_186.0 P63 BN63A4	137
7.4	145	3.1	183.5	6500	C363_183.5 S05 M05A4	140	C363_183.5 P63 BN63A4	141
7.6	141	1.4	178.5	5000	C223_178.5 S05 M05A4	132	C223_178.5 P63 BN63A4	133
8.1	132	2.3	167.4	5500	C323_167.4 S05 M05A4	136	C323_167.4 P63 BN63A4	137
8.9	120	1.7	151.7	5000	C223_151.7 S05 M05A4	132	C223_151.7 P63 BN63A4	133
9.1	117	2.6	148.4	5500	C323_148.4 S05 M05A4	136	C323_148.4 P63 BN63A4	137
9.9	108	1.9	136.5	5000	C223_136.5 S05 M05A4	132	C223_136.5 P63 BN63A4	133
9.9	108	2.8	136.0	5500	C323_136.0 S05 M05A4	136	C323_136.0 P63 BN63A4	137
11.0	97	3.1	122.4	5500	C323_122.4 S05 M05A4	136	C323_122.4 P63 BN63A4	137
11.0	97	2.1	122.2	5000	C223_122.2 S05 M05A4	132	C223_122.2 P63 BN63A4	133
12.1	89	2.3	112.0	5000	C223_112.0 S05 M05A4	132	C223_112.0 P63 BN63A4	133
13.5	79	2.5	100.2	5000	C223_100.2 S05 M05A4	132	C223_100.2 P63 BN63A4	133
15.3	70	2.9	88.5	5000	C223_88.5 S05 M05A4	132	C223_88.5 P63 BN63A4	133
16.3	65	3.1	82.6	5000	C223_82.6 S05 M05A4	132	C223_82.6 P63 BN63A4	133
20.4	53	1.7	66.2	2000	C122_66.2 S05 M05A4	128	C122_66.2 P63 BN63A4	129
21.3	51	2.5	63.3	5000	C222_63.3 S05 M05A4	132	C222_63.3 P63 BN63A4	133
24.5	45	2.0	55.2	2000	C122_55.2 S05 M05A4	128	C122_55.2 P63 BN63A4	129
24.7	44	3.5	54.7	5000	C222_54.7 S05 M05A4	132	C222_54.7 P63 BN63A4	133
28.4	38	2.3	47.6	2000	C122_47.6 S05 M05A4	128	C122_47.6 P63 BN63A4	129
29.3	37	1.2	44.7	1010	C052_44.7 S05 M05A4	127		
32	34	2.6	42.3	2000	C122_42.3 S05 M05A4	128	C122_42.3 P63 BN63A4	129
33	34	1.3	40.3	990	C052_40.3 S05 M05A4	127		
36	30	1.5	36.4	980	C052_36.4 S05 M05A4	127		
36	30	3.0	37.0	2000	C122_37.0 S05 M05A4	128	C122_37.0 P63 BN63A4	129
40	27	1.6	32.8	960	C052_32.8 S05 M05A4	127		
41	26	3.4	32.8	2000	C122_32.8 S05 M05A4	128	C122_32.8 P63 BN63A4	129
48	23	2.0	27.1	930	C052_27.1 S05 M05A4	127		
56	20	2.3	15.6	900	C052_15.6 S05 M05B6	127		
62	18	2.6	21.0	890	C052_21.0 S05 M05A4	127		
69	16	2.5	18.9	860	C052_18.9 S05 M05A4	127		
78	14	3.2	11.2	850	C052_11.2 S05 M05B6	127		
84	13	3.1	15.6	820	C052_15.6 S05 M05A4	127		
105	10	3.8	12.5	780	C052_12.5 S05 M05A4	127		
117	9	4.3	11.2	760	C052_11.2 S05 M05A4	127		
130	8	5.4	6.7	740	C052_6.7 S05 M05B6	127		
141	8	3.9	9.3	720	C052_9.3 S05 M05A4	127		
177	6	4.8	7.4	680	C052_7.4 S05 M05A4	127		
196	6	5.4	6.7	660	C052_6.7 S05 M05A4	127		



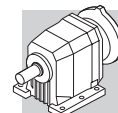
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n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
0.66	2367	1.0	1362	25000			C704_1362 P71 BN71A6	157
0.84	1858	1.2	1069	25000			C704_1069 P71 BN71A6	157
1.2	1262	1.3	726.3	16000	C614_726.3 S1 M1SC6	152	C614_726.3 P71 BN71A6	153
1.3	1248	0.8	717.7	10000	C514_717.7 S1 M1SC6	148	C514_717.7 P71 BN71A6	149
1.5	1049	1.0	884.9	10000			C514_884.9 P63 BN63B4	149
1.6	958	1.0	808.0	10000			C514_808.0 P63 BN63B4	149
1.6	955	1.0	549.7	10000	C514_549.7 S1 M1SC6	148	C514_549.7 P71 BN71A6	149
1.8	861	1.9	726.3	16000			C614_726.3 P63 BN63B4	153
1.8	851	1.2	717.7	10000			C514_717.7 P63 BN63B4	149
1.9	806	1.2	463.9	10000	C514_463.9 S1 M1SC6	148	C514_463.9 P71 BN71A6	149
1.9	803	2.0	462.0	16000	C614_462.0 S1 M1SC6	152	C614_462.0 P71 BN71A6	153
2.0	796	0.8	671.3	7000	C414_671.3 S05 M05B4	144	C414_671.3 P63 BN63B4	145
2.0	783	0.8	450.2	7000	C414_450.2 S1 M1SC6	144	C414_450.2 P71 BN71A6	145
2.0	777	1.3	655.4	10000			C514_655.4 P63 BN63B4	149
2.2	727	0.8	418.5	7000	C414_418.5 S1 M1SC6	144	C414_418.5 P71 BN71A6	145
2.2	723	1.4	415.7	10000	C514_415.7 S1 M1SC6	148	C514_415.7 P71 BN71A6	149
2.2	706	0.8	595.8	7000	C414_595.8 S05 M05B4	144	C414_595.8 P63 BN63B4	145
2.4	660	1.5	379.6	10000	C514_379.6 S1 M1SC6	148	C514_379.6 P71 BN71A6	149
2.4	644	0.9	543.5	7000	C414_543.5 S05 M05B4	144	C414_543.5 P63 BN63B4	145
2.6	587	0.8	341.7	6300	C364_341.7 S1 M1SC6	140	C364_341.7 P71 BN71A6	141
2.7	585	1.0	493.5	7000	C414_493.5 S05 M05B4	144	C414_493.5 P63 BN63B4	145
2.9	534	1.1	450.2	7000	C414_450.2 S05 M05B4	144	C414_450.2 P63 BN63B4	145
2.9	536	0.8	458.4	6500	C364_458.4 S05 M05B4	140	C364_458.4 P63 BN63B4	141
3.1	492	0.9	420.2	6500	C364_420.2 S05 M05B4	140	C364_420.2 P63 BN63B4	141
3.2	496	1.2	418.5	7000	C414_418.5 S05 M05B4	144	C414_418.5 P63 BN63B4	145
3.5	452	1.3	381.8	7000	C414_381.8 S05 M05B4	144	C414_381.8 P63 BN63B4	145
3.5	442	1.0	377.9	6500	C364_377.9 S05 M05B4	140	C364_377.9 P63 BN63B4	141
3.9	400	1.1	341.7	6500	C364_341.7 S05 M05B4	140	C364_341.7 P63 BN63B4	141
4.0	395	1.5	333.4	7000	C414_333.4 S05 M05B4	144	C414_333.4 P63 BN63B4	145
4.1	373	1.2	318.9	6500	C364_318.9 S05 M05B4	140	C364_318.9 P63 BN63B4	141
4.3	371	1.6	209.1	7000	C413_209.1 S1 M1SC6	144	C413_209.1 P71 BN71A6	145
4.3	360	1.7	304.2	7000	C414_304.2 S05 M05B4	144	C414_304.2 P63 BN63B4	145
4.5	340	1.3	290.9	6500	C364_290.9 S05 M05B4	140	C364_290.9 P63 BN63B4	141
4.7	339	1.8	190.8	7000	C413_190.8 S1 M1SC6	144	C413_190.8 P71 BN71A6	145
4.8	330	0.9	186.0	5500	C323_186.0 S1 M1SC6	136	C323_186.0 P71 BN71A6	137
5.0	312	1.9	263.0	7000	C414_263.0 S05 M05B4	144	C414_263.0 P63 BN63B4	145
5.2	298	1.5	255.0	6500	C364_255.0 S05 M05B4	140	C364_255.0 P63 BN63B4	141
5.4	297	1.0	167.4	5500	C323_167.4 S1 M1SC6	136	C323_167.4 P71 BN71A6	137
5.4	295	0.9	244.2	5500	C323_244.2 S05 M05B4	136	C323_244.2 P63 BN63B4	137
5.7	270	1.7	230.9	6500	C364_230.9 S05 M05B4	140	C364_230.9 P63 BN63B4	141
6.1	261	1.2	215.6	5500	C323_215.6 S05 M05B4	136	C323_215.6 P63 BN63B4	137
6.4	250	1.8	206.4	6500	C363_206.4 S05 M05B4	140	C363_206.4 P63 BN63B4	141
7.1	225	1.3	186.0	5500	C323_186.0 S05 M05B4	136	C323_186.0 P63 BN63B4	137
7.2	222	2.0	183.5	6500	C363_183.5 S05 M05B4	140	C363_183.5 P63 BN63B4	141
7.4	216	0.9	178.5	5000	C223_178.5 S05 M05B4	132	C223_178.5 P63 BN63B4	133
7.9	202	1.5	167.4	5500	C323_167.4 S05 M05B4	136	C323_167.4 P63 BN63B4	137



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n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
8.1	196	2.3	162.0	6500	C363_162.0 S05 M05B4	140	C363_162.0 P63 BN63B4	141
8.7	183	1.1	151.7	5000	C223_151.7 S05 M05B4	132	C223_151.7 P63 BN63B4	133
8.9	179	1.7	148.4	5500	C323_148.4 S05 M05B4	136	C323_148.4 P63 BN63B4	137
9.4	169	2.7	139.8	6500	C363_139.8 S05 M05B4	140	C363_139.8 P63 BN63B4	141
9.7	165	1.2	136.5	5000	C223_136.5 S05 M05B4	132	C223_136.5 P63 BN63B4	133
9.7	164	1.8	136.0	5500	C323_136.0 S05 M05B4	136	C323_136.0 P63 BN63B4	137
10.5	152	3.0	125.8	6500	C363_125.8 S05 M05B4	140	C363_125.8 P63 BN63B4	141
10.8	148	2.0	122.4	5500	C323_122.4 S05 M05B4	136	C323_122.4 P63 BN63B4	137
10.8	148	1.4	122.2	5000	C223_122.2 S05 M05B4	132	C223_122.2 P63 BN63B4	133
11.8	135	1.5	112.0	5000	C223_112.0 S05 M05B4	132	C223_112.0 P63 BN63B4	133
11.8	135	3.3	111.5	6500	C363_111.5 S05 M05B4	140	C363_111.5 P63 BN63B4	141
11.9	134	2.2	110.6	5500	C323_110.6 S05 M05B4	136	C323_110.6 P63 BN63B4	137
12.8	125	2.4	103.3	5500	C323_103.3 S05 M05B4	136	C323_103.3 P63 BN63B4	137
12.9	124	3.6	102.2	6500	C363_102.2 S05 M05B4	140	C363_102.2 P63 BN63B4	141
13.2	121	1.7	100.2	5000	C223_100.2 S05 M05B4	132	C223_100.2 P63 BN63B4	133
14.0	114	2.6	94.2	5500	C323_94.2 S05 M05B4	136	C323_94.2 P63 BN63B4	137
14.9	107	1.9	88.5	5000	C223_88.5 S05 M05B4	132	C223_88.5 P63 BN63B4	133
16.0	100	2.0	82.6	5000	C223_82.6 S05 M05B4	132	C223_82.6 P63 BN63B4	133
16.0	100	3.0	82.6	5500	C323_82.6 S05 M05B4	136	C323_82.6 P63 BN63B4	137
17.6	90	2.2	74.8	5000	C223_74.8 S05 M05B4	132	C223_74.8 P63 BN63B4	133
17.7	90	3.2	74.7	5500	C323_74.7 S05 M05B4	136	C323_74.7 P63 BN63B4	137
19.8	83	2.6	66.8	5500	C322_66.8 S05 M05B4	136	C322_66.8 P63 BN63B4	137
20.0	82	1.1	66.2	2000	C122_66.2 S05 M05B4	128	C122_66.2 P63 BN63B4	129
20.2	79	2.5	65.3	5000	C223_65.3 S05 M05B4	132	C223_65.3 P63 BN63B4	133
20.9	78	1.7	63.3	5000	C222_63.3 S05 M05B4	132	C222_63.3 P63 BN63B4	133
22.0	73	2.6	60.0	5000	C223_60.0 S05 M05B4	132	C223_60.0 P63 BN63B4	133
22.2	73	2.9	59.4	5500	C322_59.4 S05 M05B4	136	C322_59.4 P63 BN63B4	137
23.9	68	1.3	55.2	2000	C122_55.2 S05 M05B4	128	C122_55.2 P63 BN63B4	129
24.1	68	2.3	54.7	5000	C222_54.7 S05 M05B4	132	C222_54.7 P63 BN63B4	133
27.1	60	2.6	48.6	5000	C222_48.6 S05 M05B4	132	C222_48.6 P63 BN63B4	133
27.7	59	1.5	47.6	2000	C122_47.6 S05 M05B4	128	C122_47.6 P63 BN63B4	129
31	53	3.6	43.3	5000	C222_43.3 S05 M05B4	132	C222_43.3 P63 BN63B4	133
31	52	1.7	42.3	2000	C122_42.3 S05 M05B4	128	C122_42.3 P63 BN63B4	129
33	50	0.9	40.3	850	C052_40.3 S05 M05B4	127		
36	45	1.0	36.4	850	C052_36.4 S05 M05B4	127		
36	46	2.0	37.0	2000	C122_37.0 S05 M05B4	128	C122_37.0 P63 BN63B4	129
40	40	2.2	32.8	2000	C122_32.8 S05 M05B4	128	C122_32.8 P63 BN63B4	129
40	41	1.1	32.8	840	C052_32.8 S05 M05B4	127		
45	36	2.5	29.5	2000	C122_29.5 S05 M05B4	128	C122_29.5 P63 BN63B4	129
49	34	1.3	27.1	820	C052_27.1 S05 M05B4	127		
52	31	2.8	25.4	2000	C122_25.4 S05 M05B4	128	C122_25.4 P63 BN63B4	129
57	29	3.0	23.2	2000	C122_23.2 S05 M05B4	128	C122_23.2 P63 BN63B4	129
63	26	1.7	21.0	810	C052_21.0 S05 M05B4	127		
64	25	3.2	20.6	2000	C122_20.6 S05 M05B4	128	C122_20.6 P63 BN63B4	129
70	23	1.7	18.9	790	C052_18.9 S05 M05B4	127		
72	23	3.4	18.4	2000	C122_18.4 S05 M05B4	128	C122_18.4 P63 BN63B4	129

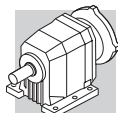


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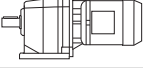
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
77	21	3.6	17.2	2000	C122_17.2 S05 M05B4	128	C122_17.2 P63 BN63B4	129
85	19	2.1	15.6	760	C052_15.6 S05 M05B4	127		
106	15	2.6	12.5	740	C052_12.5 S05 M05B4	127		
118	14	2.9	11.2	720	C052_11.2 S05 M05B4	127		
142	11	2.6	9.3	690	C052_9.3 S05 M05B4	127		
178	9	3.3	7.4	650	C052_7.4 S05 M05B4	127		
197	8	3.6	6.7	640	C052_6.7 S05 M05B4	127		
229	7	7.4	11.9	1670	C122_11.9 S05 M05A2	128	C122_11.9 P63 BN63A2	129
240	7	4.4	5.5	600	C052_5.5 S05 M05B4	127		
268	6	8.1	10.1	1600	C122_10.1 S05 M05A2	128	C122_10.1 P63 BN63A2	129
310	5	8.9	8.8	1530	C122_8.8 S05 M05A2	128	C122_8.8 P63 BN63A2	129
354	5	9.8	7.6	1470	C122_7.6 S05 M05A2	128	C122_7.6 P63 BN63A2	129
440	4	11.3	6.2	1390	C122_6.2 S05 M05A2	128	C122_6.2 P63 BN63A2	129
488	3	11.9	5.6	1300	C122_5.6 S05 M05A2	128	C122_5.6 P63 BN63A2	129
577	3	13.4	4.9	1250	C122_4.9 S05 M05A2	128	C122_4.9 P63 BN63A2	129
635	3	14.0	4.3	1190	C122_4.3 S05 M05A2	128	C122_4.3 P63 BN63A2	129
770	2	16.0	3.7	1140	C122_3.7 S05 M05A2	128	C122_3.7 P63 BN63A2	129
853	2	16.7	3.2	1090	C122_3.2 S05 M05A2	128	C122_3.2 P63 BN63A2	129
1015	2	18.7	2.8	1040	C122_2.8 S05 M05A2	128	C122_2.8 P63 BN63A2	129

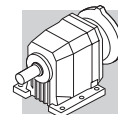
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n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
0.61	3575	1.1	1481	35000			C804_1481 P71 BN71B6	160
0.77	2820	1.4	1168	35000			C804_1168 P71 BN71B6	160
1.2	1753	0.9	726.3	16000	C614_726.3 S1 M1SD6	152	C614_726.3 P71 BN71B6	153
1.6	1330	0.8	808.0	10000			C514_808.0 P63 BN63C4	149
1.6	1327	0.8	549.7	10000	C514_549.7 S1 M1SD6	148	C514_549.7 P71 BN71B6	149
1.9	1134	0.9	717.7	10000			C514_717.7 P71 BN71A4	149
1.9	1120	0.9	463.9	10000	C514_463.9 S1 M1SD6	148	C514_463.9 P71 BN71B6	149
2.0	1101	1.5	668.8	16000			C614_668.8 P63 BN63C4	153
2.4	894	1.8	370.1	16000	C614_370.1 S1 M1SD6	152	C614_370.1 P71 BN71B6	153
2.5	869	1.2	549.7	10000			C514_549.7 P71 BN71A4	149
2.9	741	0.8	450.2	7000	C414_450.2 S05 M05C4	144	C414_450.2 P71 BN71A4	145
3.2	689	0.9	418.5	7000	C414_418.5 S05 M05C4	144	C414_418.5 P71 BN71A4	145
3.2	684	1.5	415.7	10000			C514_415.7 P71 BN71A4	149
3.5	628	1.0	381.8	7000	C414_381.8 S05 M05C4	144	C414_381.8 P71 BN71A4	145
3.5	625	1.6	379.6	10000			C514_379.6 P71 BN71A4	149
3.8	567	0.8	344.3	6500	C364_344.3 S05 M05C4	140	C364_344.3 P71 BN71A4	141
4.0	549	1.1	333.4	7000	C414_333.4 S05 M05C4	144	C414_333.4 P71 BN71A4	145
4.0	537	1.9	326.1	10000			C514_326.1 P71 BN71A4	149
4.2	511	0.9	318.9	6500	C364_318.9 S05 M05C4	140	C364_318.9 P71 BN71A4	141
4.3	501	1.2	304.2	7000	C414_304.2 S05 M05C4	144	C414_304.2 P71 BN71A4	145
4.4	490	2.0	297.8	10000			C514_297.8 P71 BN71A4	149
4.6	466	1.0	290.9	6500	C364_290.9 S05 M05C4	140	C364_290.9 P71 BN71A4	141

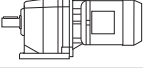


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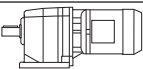
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
5.0	434	2.3	263.8	10000			C514_263.8 P71 BN71A4	149
5.0	433	1.4	263.0	7000	C414_263.0 S05 M05C4	144	C414_263.0 P71 BN71A4	145
5.3	409	1.1	255.0	6500	C364_255.0 S05 M05C4	140	C364_255.0 P71 BN71A4	141
5.5	395	1.5	239.9	7000	C414_239.9 S05 M05C4	144	C414_239.9 P71 BN71A4	145
5.8	370	1.2	230.9	6500	C364_230.9 S05 M05C4	140	C364_230.9 P71 BN71A4	141
6.3	350	2.9	216.7	10000			C513_216.7 P71 BN71A4	149
6.5	342	1.3	206.4	6500	C363_206.4 S05 M05C4	140	C363_206.4 P71 BN71A4	141
7.2	308	1.9	190.8	7000			C413_190.8 P71 BN71A4	145
7.2	308	1.0	186.0	5500	C323_186.0 S05 M05C4	136	C323_186.0 P71 BN71A4	137
7.3	304	1.5	183.5	6500	C363_183.5 S05 M05C4	140	C363_183.5 P71 BN71A4	141
8.0	277	1.1	167.4	5500	C323_167.4 S05 M05C4	136	C323_167.4 P71 BN71A4	137
8.3	268	1.7	162.0	6500	C363_162.0 S05 M05C4	140	C363_162.0 P71 BN71A4	141
8.4	265	2.3	164.1	7000			C413_164.1 P71 BN71A4	145
9.0	246	1.2	148.4	5500	C323_148.4 S05 M05C4	136	C323_148.4 P71 BN71A4	137
9.6	231	1.9	139.8	6500	C363_139.8 S05 M05C4	140	C363_139.8 P71 BN71A4	141
9.8	226	0.9	136.5	5000	C223_136.5 S05 M05C4	132	C223_136.5 P71 BN71A4	133
9.9	225	1.3	136.0	5500	C323_136.0 S05 M05C4	136	C323_136.0 P71 BN71A4	137
10.3	215	2.8	132.9	7000			C413_132.9 P71 BN71A4	145
10.7	208	2.2	125.8	6500	C363_125.8 S05 M05C4	140	C363_125.8 P71 BN71A4	141
11.0	203	1.5	122.4	5500	C323_122.4 S05 M05C4	136	C323_122.4 P71 BN71A4	137
11.0	202	1.0	122.2	5000	C223_122.2 S05 M05C4	132	C223_122.2 P71 BN71A4	133
12.0	185	1.1	112.0	5000	C223_112.0 S05 M05C4	132	C223_112.0 P71 BN71A4	133
12.0	185	2.4	111.5	6500	C363_111.5 S05 M05C4	140	C363_111.5 P71 BN71A4	141
12.1	183	1.6	110.6	5500	C323_110.6 S05 M05C4	136	C323_110.6 P71 BN71A4	137
13.0	171	1.8	103.3	5500	C323_103.3 S05 M05C4	136	C323_103.3 P71 BN71A4	137
13.1	169	2.7	102.2	6500	C363_102.2 S05 M05C4	140	C363_102.2 P71 BN71A4	141
13.4	166	1.2	100.2	5000	C223_100.2 S05 M05C4	132	C223_100.2 P71 BN71A4	133
14.2	156	1.9	94.2	5500	C323_94.2 S05 M05C4	136	C323_94.2 P71 BN71A4	137
14.6	152	3.0	91.9	6500	C363_91.9 S05 M05C4	140	C363_91.9 P71 BN71A4	141
15.1	147	1.4	88.5	5000	C223_88.5 S05 M05C4	132	C223_88.5 P71 BN71A4	133
16.2	137	1.5	82.6	5000	C223_82.6 S05 M05C4	132	C223_82.6 P71 BN71A4	133
16.2	137	2.2	82.6	5500	C323_82.6 S05 M05C4	136	C323_82.6 P71 BN71A4	137
17.9	124	1.6	74.8	5000	C223_74.8 S05 M05C4	132	C223_74.8 P71 BN71A4	133
17.9	124	2.3	74.7	5500	C323_74.7 S05 M05C4	136	C323_74.7 P71 BN71A4	137
20.1	113	1.9	66.8	5500	C322_66.8 S05 M05C4	136	C322_66.8 P71 BN71A4	137
20.3	112	0.8	66.2	2000	C122_66.2 S05 M05C4	128	C122_66.2 P71 BN71A4	129
20.5	108	1.8	65.3	5000	C223_65.3 S05 M05C4	132	C223_65.3 P71 BN71A4	133
21.2	107	1.2	63.3	5000	C222_63.3 S05 M05C4	132	C222_63.3 P71 BN71A4	133
22.3	99	1.9	60.0	5000	C223_60.0 S05 M05C4	132	C223_60.0 P71 BN71A4	133
22.6	100	2.1	59.4	5500	C322_59.4 S05 M05C4	136	C322_59.4 P71 BN71A4	137
24.3	93	1.0	55.2	2000	C122_55.2 S05 M05C4	128	C122_55.2 P71 BN71A4	129
24.5	93	1.7	54.7	5000	C222_54.7 S05 M05C4	132	C222_54.7 P71 BN71A4	133
25.6	89	3.4	52.4	5500	C322_52.4 S05 M05C4	136	C322_52.4 P71 BN71A4	137
27.5	82	1.9	48.6	5000	C222_48.6 S05 M05C4	132	C222_48.6 P71 BN71A4	133
28.1	80	1.1	47.6	2000	C122_47.6 S05 M05C4	128	C122_47.6 P71 BN71A4	129
31	73	2.6	43.3	4750	C222_43.3 S05 M05C4	132	C222_43.3 P71 BN71A4	133
32	72	1.3	42.3	2000	C122_42.3 S05 M05C4	128	C122_42.3 P71 BN71A4	129
36	63	1.4	37.0	2000	C122_37.0 S05 M05C4	128	C122_37.0 P71 BN71A4	129

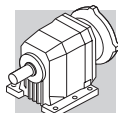


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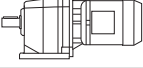
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
36	62	3.2	36.8	4540	C222_36.8 S05 M05C4	132	C222_36.8 P71 BN71A4	133
40	56	3.6	33.1	4500	C222_33.1 S05 M05C4	132	C222_33.1 P71 BN71A4	133
41	55	1.6	32.8	2000	C122_32.8 S05 M05C4	128	C122_32.8 P71 BN71A4	129
45	50	1.8	29.5	2000	C122_29.5 S05 M05C4	128	C122_29.5 P71 BN71A4	129
49	47	1.0	27.1	700	C052_27.1 S05 M05C4	127		
53	43	2.1	25.4	2000	C122_25.4 S05 M05C4	128	C122_25.4 P71 BN71A4	129
58	39	2.2	23.2	2000	C122_23.2 S05 M05C4	128	C122_23.2 P71 BN71A4	129
63	36	1.2	21.0	720	C052_21.0 S05 M05C4	127		
65	35	2.4	20.6	2000	C122_20.6 S05 M05C4	128	C122_20.6 P71 BN71A4	129
70	33	1.2	18.9	710	C052_18.9 S05 M05C4	127		
73	31	2.5	18.4	2000	C122_18.4 S05 M05C4	128	C122_18.4 P71 BN71A4	129
78	29	2.6	17.2	2000	C122_17.2 S05 M05C4	128	C122_17.2 P71 BN71A4	129
85	27	1.5	15.6	700	C052_15.6 S05 M05C4	127		
87	26	2.8	15.4	2000	C122_15.4 S05 M05C4	128	C122_15.4 P71 BN71A4	129
100	23	3.1	13.4	2000	C122_13.4 S05 M05C4	128	C122_13.4 P71 BN71A4	129
106	22	1.9	12.5	690	C052_12.5 S05 M05C4	127		
113	20	3.3	11.9	2000	C122_11.9 S05 M05C4	128	C122_11.9 P71 BN71A4	129
118	19	2.1	11.2	670	C052_11.2 S05 M05C4	127		
133	17	3.7	10.1	1980	C122_10.1 S05 M05C4	128	C122_10.1 P71 BN71A4	129
142	16	1.9	9.3	650	C052_9.3 S05 M05C4	127		
157	14	4.2	17.2	1870	C122_17.2 S05 M05B2	128	C122_17.2 P63 BN63B2	129
178	13	2.4	7.4	620	C052_7.4 S05 M05C4	127		
197	12	2.6	6.7	610	C052_6.7 S05 M05C4	127		
204	11	5.0	13.4	1710	C122_13.4 S05 M05B2	128	C122_13.4 P63 BN63B2	129
230	10	5.4	11.9	1660	C122_11.9 S05 M05B2	128	C122_11.9 P63 BN63B2	129
240	9	3.2	5.5	580	C052_5.5 S05 M05C4	127		
268	8	5.8	10.1	1590	C122_10.1 S05 M05B2	128	C122_10.1 P63 BN63B2	129
311	7	6.5	8.8	1510	C122_8.8 S05 M05B2	128	C122_8.8 P63 BN63B2	129
354	6	7.0	7.6	1460	C122_7.6 S05 M05B2	128	C122_7.6 P63 BN63B2	129
442	5	8.2	6.2	1350	C122_6.2 S05 M05B2	128	C122_6.2 P63 BN63B2	129
489	5	8.6	5.6	1290	C122_5.6 S05 M05B2	128	C122_5.6 P63 BN63B2	129
577	4	9.7	4.9	1240	C122_4.9 S05 M05B2	128	C122_4.9 P63 BN63B2	129
637	4	10.1	4.3	1180	C122_4.3 S05 M05B2	128	C122_4.3 P63 BN63B2	129
770	3	11.5	3.7	1130	C122_3.7 S05 M05B2	128	C122_3.7 P63 BN63B2	129
856	3	12.1	3.2	1080	C122_3.2 S05 M05B2	128	C122_3.2 P63 BN63B2	129
979	2	13.0	2.8	1030	C122_2.8 S05 M05B2	128	C122_2.8 P63 BN63B2	129

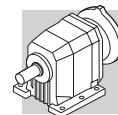
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n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
0.73	4382	1.6	1240	60000	C904_1240 S1 M1LA6	162	C904_1240 P80 BN80A6	163
0.78	4127	1.0	1168	35000			C804_1168 P80 BN80A6	160
0.93	3476	1.2	1481	35000			C804_1481 P71 BN71B4	160
1.2	2741	1.5	1168	35000			C804_1168 P71 BN71B4	160
1.4	2220	1.8	945.7	35000			C804_945.7 P71 BN71B4	160
1.5	2165	1.1	922.6	25000			C704_922.6 P71 BN71B4	157

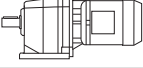


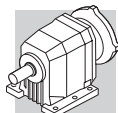
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n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
1.7	1869	0.9	796.1	16000	C614_796.1 S1 M1SD4	152	C614_796.1 P71 BN71B4	153
2.0	1570	1.0	668.8	16000	C614_668.8 S1 M1SD4	152	C614_668.8 P71 BN71B4	153
2.1	1543	1.5	657.3	25000			C704_657.3 P71 BN71B4	157
2.4	1341	1.2	571.2	16000	C614_571.2 S1 M1SD4	152	C614_571.2 P71 BN71B4	153
2.5	1302	1.8	554.7	25000			C704_554.7 P71 BN71B4	157
2.5	1290	0.8	549.7	10000	C514_549.7 S1 M1SD4	148	C514_549.7 P71 BN71B4	149
2.6	1223	1.3	521.1	16000	C614_521.1 S1 M1SD4	152	C614_521.1 P71 BN71B4	153
3.3	989	1.6	421.5	16000	C614_421.5 S1 M1SD4	152	C614_421.5 P71 BN71B4	153
3.3	976	1.0	415.7	10000	C514_415.7 S1 M1SD4	148	C514_415.7 P71 BN71B4	149
3.3	961	2.4	409.4	25000			C704_409.4 P71 BN71B4	157
3.6	891	1.1	379.6	10000	C514_379.6 S1 M1SD4	148	C514_379.6 P71 BN71B4	149
3.7	869	1.8	370.1	16000	C614_370.1 S1 M1SD4	152	C614_370.1 P71 BN71B4	153
4.1	793	2.0	337.7	16000	C614_337.7 S1 M1SD4	152	C614_337.7 P71 BN71B4	153
4.1	783	0.8	333.4	7000	C414_333.4 S1 M1SD4	144	C414_333.4 P71 BN71B4	145
4.2	765	1.3	326.1	10000	C514_326.1 S1 M1SD4	148	C514_326.1 P71 BN71B4	149
4.6	699	1.4	297.8	10000	C514_297.8 S1 M1SD4	148	C514_297.8 P71 BN71B4	149
5.2	619	1.6	263.8	10000	C514_263.8 S1 M1SD4	148	C514_263.8 P71 BN71B4	149
5.2	617	1.0	263.0	7000	C414_263.0 S1 M1SD4	144	C414_263.0 P71 BN71B4	145
5.9	540	0.8	230.9	6300	C364_230.9 S1 M1SD4	140	C364_230.9 P71 BN71B4	141
6.3	520	1.9	216.7	10000	C513_216.7 S1 M1SD4	148	C513_216.7 P71 BN71B4	149
6.6	502	1.2	209.1	7000	C413_209.1 S1 M1SD4	144	C413_209.1 P71 BN71B4	145
6.6	499	0.9	206.4	6500			C363_206.4 P71 BN71B4	141
6.9	475	2.1	197.9	10000	C513_197.9 S1 M1SD4	148	C513_197.9 P71 BN71B4	149
7.2	458	1.3	190.8	7000	C413_190.8 S1 M1SD4	144	C413_190.8 P71 BN71B4	145
7.5	444	1.0	183.5	6500			C363_183.5 P71 BN71B4	141
7.6	431	1.4	179.9	7000	C413_179.9 S1 M1SD4	144	C413_179.9 P71 BN71B4	145
7.8	422	2.4	175.8	10000	C513_175.8 S1 M1SD4	148	C513_175.8 P71 BN71B4	149
8.3	394	1.5	164.1	7000	C413_164.1 S1 M1SD4	144	C413_164.1 P71 BN71B4	145
8.5	385	2.6	160.5	10000	C513_160.5 S1 M1SD4	148	C513_160.5 P71 BN71B4	149
8.5	392	1.1	162.0	6500	C363_162.0 S1 M1SD4	140	C363_162.0 P71 BN71B4	141
9.4	349	1.7	145.6	7000	C413_145.6 S1 M1SD4	144	C413_145.6 P71 BN71B4	145
9.8	338	1.3	139.8	6500	C363_139.8 S1 M1SD4	140	C363_139.8 P71 BN71B4	141
10.1	329	0.9	136.0	5500	C323_136.0 S1 M1SD4	136	C323_136.0 P71 BN71B4	137
10.3	319	1.9	132.9	7000	C413_132.9 S1 M1SD4	144	C413_132.9 P71 BN71B4	145
10.9	304	1.5	125.8	6500	C363_125.8 S1 M1SD4	140	C363_125.8 P71 BN71B4	141
11.2	296	1.0	122.4	5500	C323_122.4 S1 M1SD4	136	C323_122.4 P71 BN71B4	137
11.4	289	2.1	120.6	7000	C413_120.6 S1 M1SD4	144	C413_120.6 P71 BN71B4	145
12.3	270	1.7	111.5	6500	C363_111.5 S1 M1SD4	140	C363_111.5 P71 BN71B4	141
12.4	264	2.3	110.1	7000	C413_110.1 S1 M1SD4	144	C413_110.1 P71 BN71B4	145
12.4	267	1.1	110.6	5500	C323_110.6 S1 M1SD4	136	C323_110.6 P71 BN71B4	137
13.3	250	1.2	103.3	5500	C323_103.3 S1 M1SD4	136	C323_103.3 P71 BN71B4	137
13.4	245	2.4	102.3	7000	C413_102.3 S1 M1SD4	144	C413_102.3 P71 BN71B4	145
13.4	247	1.8	102.2	6500	C363_102.2 S1 M1SD4	140	C363_102.2 P71 BN71B4	141
14.5	228	1.3	94.2	5500	C323_94.2 S1 M1SD4	136	C323_94.2 P71 BN71B4	137
14.7	224	2.7	93.3	7000	C413_93.3 S1 M1SD4	144	C413_93.3 P71 BN71B4	145
14.9	222	2.0	91.9	6500	C363_91.9 S1 M1SD4	140	C363_91.9 P71 BN71B4	141
15.5	214	0.9	88.5	4850	C223_88.5 S1 M1SD4	132	C223_88.5 P71 BN71B4	133
16.5	201	2.2	83.1	6500	C363_83.1 S1 M1SD4	140	C363_83.1 P71 BN71B4	141
16.6	200	1.0	82.6	5000	C223_82.6 S1 M1SD4	132	C223_82.6 P71 BN71B4	133
16.6	200	1.5	82.6	5500	C323_82.6 S1 M1SD4	136	C323_82.6 P71 BN71B4	137
16.8	196	3.1	81.5	7000	C413_81.5 S1 M1SD4	144	C413_81.5 P71 BN71B4	145

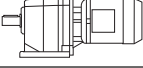


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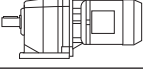
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
17.7	188	2.4	77.6	6500	C363_77.6 S1 M1SD4	140	C363_77.6 P71 BN71B4	141
18.3	181	1.1	74.8	5000	C223_74.8 S1 M1SD4	132	C223_74.8 P71 BN71B4	133
18.3	181	1.6	74.7	5500	C323_74.7 S1 M1SD4	136	C323_74.7 P71 BN71B4	137
18.4	178	3.4	74.4	7000	C413_74.4 S1 M1SD4	144	C413_74.4 P71 BN71B4	145
19.4	171	2.6	70.8	6500	C363_70.8 S1 M1SD4	140	C363_70.8 P71 BN71B4	141
20.5	165	1.3	66.8	5500			C322_66.8 P71 BN71B4	137
21.0	158	1.3	65.3	5000	C223_65.3 S1 M1SD4	132	C223_65.3 P71 BN71B4	133
21.7	156	0.8	63.3	4850			C222_63.3 P71 BN71B4	133
22.1	150	3.0	62.0	6500	C363_62.0 S1 M1SD4	140	C363_62.0 P71 BN71B4	141
22.8	145	1.3	60.0	5000	C223_60.0 S1 M1SD4	132	C223_60.0 P71 BN71B4	133
23.1	147	1.5	59.4	5500	C322_59.4 S1 M1SD4	136	C322_59.4 P71 BN71B4	137
25.0	135	1.1	54.7	5000			C222_54.7 P71 BN71B4	133
26.1	130	2.3	52.4	5500	C322_52.4 S1 M1SD4	136	C322_52.4 P71 BN71B4	137
28.2	120	1.3	48.6	4850		132	C222_48.6 P71 BN71B4	133
30	112	2.7	45.3	5500	C322_45.3 S1 M1SD4	136	C322_45.3 P71 BN71B4	137
32	107	1.8	43.3	4530	C222_43.3 S1 M1SD4	132	C222_43.3 P71 BN71B4	133
34	101	3.0	40.7	5500	C322_40.7 S1 M1SD4	136	C322_40.7 P71 BN71B4	137
37	91	1.0	37.0	2000	C122_37.0 S1 M1SD4	128	C122_37.0 P71 BN71B4	129
37	91	2.2	36.8	4360	C222_36.8 S1 M1SD4	132	C222_36.8 P71 BN71B4	133
38	89	3.4	36.1	5500	C322_36.1 S1 M1SD4	136	C322_36.1 P71 BN71B4	137
41	82	2.4	33.1	4240	C222_33.1 S1 M1SD4	132	C222_33.1 P71 BN71B4	133
42	81	1.1	32.8	2000	C122_32.8 S1 M1SD4	128	C122_32.8 P71 BN71B4	129
46	73	2.7	29.6	4130	C222_29.6 S1 M1SD4	132	C222_29.6 P71 BN71B4	133
46	73	1.2	29.5	2000	C122_29.5 S1 M1SD4	128	C122_29.5 P71 BN71B4	129
50	67	3.0	27.2	4100	C222_27.2 S1 M1SD4	132	C222_27.2 P71 BN71B4	133
54	63	1.4	25.4	2000	C122_25.4 S1 M1SD4	128	C122_25.4 P71 BN71B4	129
56	60	3.3	24.3	3920	C222_24.3 S1 M1SD4	132	C222_24.3 P71 BN71B4	133
59	57	1.5	23.2	2000	C122_23.2 S1 M1SD4	128	C122_23.2 P71 BN71B4	129
66	51	1.6	20.6	2000	C122_20.6 S1 M1SD4	128	C122_20.6 P71 BN71B4	129
74	45	1.7	18.4	2000	C122_18.4 S1 M1SD4	128	C122_18.4 P71 BN71B4	129
80	42	1.8	17.2	2000	C122_17.2 S1 M1SD4	128	C122_17.2 P71 BN71B4	129
88	39	1.0	15.6	580	C052_15.6 S1 M1SD4	127		
89	38	1.9	15.4	2000	C122_15.4 S1 M1SD4	128	C122_15.4 P71 BN71B4	129
102	33	2.1	13.4	2000	C122_13.4 S1 M1SD4	128	C122_13.4 P71 BN71B4	129
110	31	1.3	12.5	600	C052_12.5 S1 M1SD4	127		
115	29	2.3	11.9	2000	C122_11.9 S1 M1SD4	128	C122_11.9 P71 BN71B4	129
122	28	1.4	11.2	590	C052_11.2 S1 M1SD4	127		
136	25	2.5	10.1	1930	C122_10.1 S1 M1SD4	128	C122_10.1 P71 BN71B4	129
147	23	1.3	9.3	580	C052_9.3 S1 M1SD4	127		
155	22	2.7	8.8	1850	C122_8.8 S1 M1SD4	128	C122_8.8 P71 BN71B4	129
164	20	2.2	5.5	570	C052_5.5 S1 M1LA6	127		
180	19	3.0	7.6	1780	C122_7.6 S1 M1SD4	128	C122_7.6 P71 BN71B4	129
185	18	1.6	7.4	570	C052_7.4 S1 M1SD4	127		
204	17	1.8	6.7	560	C052_6.7 S1 M1SD4	127		
220	15	3.4	6.2	1650	C122_6.2 S1 M1SD4	128	C122_6.2 P71 BN71B4	129
235	14	3.7	11.9	1610	C122_11.9 S05 M05C2	128	C122_11.9 P71 BN71A2	129
249	14	2.2	5.5	540	C052_5.5 S1 M1SD4	127		
273	12	4.0	10.1	1570	C122_10.1 S05 M05C2	128	C122_10.1 P71 BN71A2	129
318	11	4.5	8.8	1500	C122_8.8 S05 M05C2	128	C122_8.8 P71 BN71A2	129
361	9	4.8	7.6	1440	C122_7.6 S05 M05C2	128	C122_7.6 P71 BN71A2	129
452	7	5.7	6.2	1350	C122_6.2 S05 M05C2	128	C122_6.2 P71 BN71A2	129

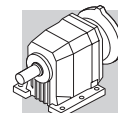


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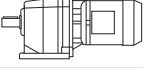
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
500	7	6.0	5.6	1290	C122_5.6 S05 M05C2	128	C122_5.6 P71 BN71A2	129
577	6	6.5	4.9	1230	C122_4.9 S05 M05C2	128	C122_4.9 P71 BN71A2	129
651	5	7.0	4.3	1180	C122_3.2 S05 M05C2	128	C122_3.2 P71 BN71A2	129
770	4	7.8	3.7	1120	C122_3.7 S05 M05C2	128	C122_3.7 P71 BN71A2	129
875	4	8.4	3.2	1080	C122_3.2 S05 M05C2	128	C122_3.2 P71 BN71A2	129
1015	3	9.1	2.8	1030	C122_2.8 S05 M05C2	128	C122_2.8 P71 BN71A2	129

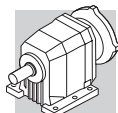
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0.85	5616	2.1	1081	85000	C1004_1081 S2 M2SA6	165	C1004_1081 P80 BN80B6	166
1.0	4792	1.5	922.3	60000	C904_922.3 S2 M2SA6	162	C904_922.3 P80 BN80B6	163
1.1	4381	0.9	1274	35000	C804_1274 S1 M1LA4	159	C804_1274 P80 BN80A4	160
1.1	4295	1.7	1240	60000	C904_1240 S1 M1LA4	162	C904_1240 P80 BN80A4	163
1.3	3549	1.1	1032	35000	C804_1032 S1 M1LA4	159	C804_1032 P80 BN80A4	160
1.4	3484	2.1	1006	60000	C904_1006 S1 M1LA4	162	C904_1006 P80 BN80A4	163
1.6	2939	1.4	854.6	35000	C804_854.6 S1 M1LA4	159	C804_854.6 P80 BN80A4	160
1.6	2923	2.5	844.0	65000	C904_844.0 S1 M1LA4	162	C904_844.0 P80 BN80A4	163
1.9	2531	0.9	736.0	25000	C704_736.0 S1 M1LA4	156	C704_736.0 P80 BN80A4	157
1.9	2492	1.6	724.7	35000	C804_724.7 S1 M1LA4	159	C804_724.7 P80 BN80A4	160
2.1	2284	1.8	664.3	35000	C804_664.3 S1 M1LA4	159	C804_664.3 P80 BN80A4	160
2.1	2260	1.0	657.3	25000	C704_657.3 S1 M1LA4	156	C704_657.3 P80 BN80A4	157
2.4	1978	0.8	571.2	16000	C614_571.2 S1 M1LA4	152	C614_571.2 P80 BN80A4	153
2.5	1907	1.2	554.7	25000	C704_554.7 S1 M1LA4	156	C704_554.7 P80 BN80A4	157
2.6	1820	2.2	529.3	35000	C804_529.3 S1 M1LA4	159	C804_529.3 P80 BN80A4	160
3.0	1600	1.0	462.0	16000	C614_462.0 S1 M1LA4	152	C614_462.0 P80 BN80A4	153
3.1	1566	2.6	455.4	35000	C804_455.4 S1 M1LA4	159	C804_455.4 P80 BN80A4	160
3.1	1525	1.5	443.5	25000	C704_443.5 S1 M1LA4	156	C704_443.5 P80 BN80A4	157
3.3	1460	1.1	421.5	16000	C614_421.5 S1 M1LA4	152	C614_421.5 P80 BN80A4	153
3.6	1315	0.8	379.6	10000	C514_379.6 S1 M1LA4	148	C514_379.6 P80 BN80A4	149
3.7	1282	1.2	370.1	16000	C614_370.1 S1 M1LA4	152	C614_370.1 P80 BN80A4	153
3.8	1254	3.2	364.7	35000	C804_364.7 S1 M1LA4	159	C804_364.7 P80 BN80A4	160
4.0	1184	1.9	344.3	25000	C704_344.3 S1 M1LA4	156	C704_344.3 P80 BN80A4	157
4.1	1170	1.4	337.7	16000	C614_337.7 S1 M1LA4	152	C614_337.7 P80 BN80A4	153
4.2	1130	0.9	326.1	10000	C514_326.1 S1 M1LA4	148	C514_326.1 P80 BN80A4	149
4.6	1031	1.0	297.8	10000	C514_297.8 S1 M1LA4	148	C514_297.8 P80 BN80A4	149
5.0	953	1.7	275.3	16000	C614_275.3 S1 M1LA4	152	C614_275.3 P80 BN80A4	153
5.1	936	2.5	272.2	25000	C704_272.2 S1 M1LA4	156	C704_272.2 P80 BN80A4	157
5.2	914	1.1	263.8	10000	C514_263.8 S1 M1LA4	148	C514_263.8 P80 BN80A4	149
5.7	834	1.2	240.9	10000	C514_240.9 S1 M1LA4	148	C514_240.9 P80 BN80A4	149
5.8	847	2.7	239.3	25000			C703_239.3 P80 BN80A4	157
5.8	825	1.9	238.3	16000	C614_238.3 S1 M1LA4	152	C614_238.3 P80 BN80A4	153
6.2	782	2.9	220.9	25000			C703_220.9 P80 BN80A4	157
6.3	753	2.1	217.4	16000	C614_217.4 S1 M1LA4	152	C614_217.4 P80 BN80A4	153
6.4	767	1.3	216.7	10000	C513_216.7 S1 M1LA4	148	C513_216.7 P80 BN80A4	149
7.0	700	1.4	197.9	10000	C513_197.9 S1 M1LA4	148	C513_197.9 P80 BN80A4	149
7.0	693	2.3	195.8	16000			C613_195.8 P80 BN80A4	153

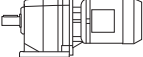


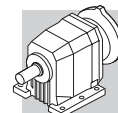
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n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
7.1	687	3.3	194.1	25000			C703_194.1 P80 BN80A4	157
7.7	637	0.9	179.9	7000	C413_179.9 S1 M1LA4	144	C413_179.9 P80 BN80A4	145
7.7	632	2.5	178.6	16000			C613_178.6 P80 BN80A4	153
7.9	622	1.6	175.8	10000	C513_175.8 S1 M1LA4	148	C513_175.8 P80 BN80A4	149
8.4	582	2.7	164.5	16000			C613_164.5 P80 BN80A4	153
8.4	581	1.0	164.1	7000	C413_164.1 S1 M1LA4	144	C413_164.1 P80 BN80A4	145
8.6	568	1.8	160.5	10000	C513_160.5 S1 M1LA4	148	C513_160.5 P80 BN80A4	149
9.2	531	3.0	150.0	16000			C613_150.0 P80 BN80A4	153
9.4	522	1.9	147.4	10000	C513_147.4 S1 M1LA4	148	C513_147.4 P80 BN80A4	149
9.5	516	1.2	145.6	7000	C413_145.6 S1 M1LA4	144	C413_145.6 P80 BN80A4	145
9.8	497	3.2	140.5	16000			C613_140.5 P80 BN80A4	153
9.9	494	0.9	139.8	6500	C363_139.8 S1 M1LA4	140	C363_139.8 P80 BN80A4	141
10.3	477	2.1	134.6	10000	C513_134.6 S1 M1LA4	148	C513_134.6 P80 BN80A4	149
10.4	470	1.3	132.9	7000	C413_132.9 S1 M1LA4	144	C413_132.9 P80 BN80A4	145
11.0	445	1.0	125.8	6500	C363_125.8 S1 M1LA4	140	C363_125.8 P80 BN80A4	141
11.1	440	2.3	124.4	10000	C513_124.4 S1 M1LA4	148	C513_124.4 P80 BN80A4	149
11.4	427	1.4	120.6	7000	C413_120.6 S1 M1LA4	144	C413_120.6 P80 BN80A4	145
12.1	402	2.5	113.6	10000	C513_113.6 S1 M1LA4	148	C513_113.6 P80 BN80A4	149
12.4	394	1.1	111.5	6500	C363_111.5 S1 M1LA4	140	C363_111.5 P80 BN80A4	141
12.5	390	1.5	110.1	7000	C413_110.1 S1 M1LA4	144	C413_110.1 P80 BN80A4	145
13.5	362	1.7	102.3	7000	C413_102.3 S1 M1LA4	144	C413_102.3 P80 BN80A4	145
13.5	361	1.2	102.2	6500	C363_102.2 S1 M1LA4	140	C363_102.2 P80 BN80A4	141
13.6	360	2.8	101.8	10000	C513_101.8 S1 M1LA4	148	C513_101.8 P80 BN80A4	149
14.7	333	0.9	94.2	5500	C323_94.2 S1 M1LA4	136	C323_94.2 P80 BN80A4	137
14.8	330	1.8	93.3	7000	C413_93.3 S1 M1LA4	144	C413_93.3 P80 BN80A4	145
14.8	329	3.0	93.0	10000	C513_93.0 S1 M1LA4	148	C513_93.0 P80 BN80A4	149
15.0	325	1.4	91.9	6500	C363_91.9 S1 M1LA4	140	C363_91.9 P80 BN80A4	141
16.6	294	1.5	83.1	6500	C363_83.1 S1 M1LA4	140	C363_83.1 P80 BN80A4	141
16.7	292	1.0	82.6	5500	C323_82.6 S1 M1LA4	136	C323_82.6 P80 BN80A4	137
16.9	289	2.1	81.5	7000	C413_81.5 S1 M1LA4	144	C413_81.5 P80 BN80A4	145
17.5	284	1.1	52.4	5500	C322_52.4 S2 M2SA6	136	C322_52.4 P80 BN80B6	137
17.8	274	1.6	77.6	6500	C363_77.6 S1 M1LA4	140	C363_77.6 P80 BN80A4	141
18.5	264	1.1	74.7	5500	C323_74.7 S1 M1LA4	136	C323_74.7 P80 BN80A4	137
18.6	263	2.3	74.4	7000	C413_74.4 S1 M1LA4	144	C413_74.4 P80 BN80A4	145
19.5	250	1.8	70.8	6500	C363_70.8 S1 M1LA4	140	C363_70.8 P80 BN80A4	141
20.7	241	0.9	66.8	5500			C322_66.8 P80 BN80A4	137
21.5	228	2.6	64.3	7000	C413_64.3 S1 M1LA4	144	C413_64.3 P80 BN80A4	145
22.2	219	2.1	62.0	6500	C363_62.0 S1 M1LA4	140	C363_62.0 P80 BN80A4	141
22.6	221	1.4	40.7	5500	C322_40.7 S2 M2SA6	136	C322_40.7 P80 BN80B6	137
23.0	212	0.9	60.0	4280	C223_60.0 S1 M1LA4	132	C223_60.0 P80 BN80A4	133
23.2	214	1.0	59.4	5500	C322_59.4 S1 M1LA4	136	C322_59.4 P80 BN80A4	137
23.5	208	2.9	58.7	7000	C413_58.7 S1 M1LA4	144	C413_58.7 P80 BN80A4	145
24.6	198	2.3	56.2	6500	C363_56.2 S1 M1LA4	140	C363_56.2 P80 BN80A4	141
26.3	189	1.6	52.4	5500	C322_52.4 S1 M1LA4	136	C322_52.4 P80 BN80A4	137
26.8	182	3.3	51.5	7000	C413_51.5 S1 M1LA4	144	C413_51.5 P80 BN80A4	145
27.8	180	1.1	33.1	4270	C222_33.1 S2 M2SA6	132	C222_33.1 P80 BN80B6	133
28.7	170	2.6	48.2	6500	C363_48.2 S1 M1LA4	140	C363_48.2 P80 BN80A4	141
30	163	1.8	45.3	5500	C322_45.3 S1 M1LA4	136	C322_45.3 P80 BN80A4	137
31	162	3.1	44.8	7000	C412_44.8 S1 M1LA4	144	C412_44.8 P80 BN80A4	145
32	154	2.9	43.5	6500	C363_43.5 S1 M1LA4	140	C363_43.5 P80 BN80A4	141
32	156	1.2	43.3	4190	C222_43.3 S1 M1LA4	132	C222_43.3 P80 BN80A4	133

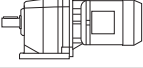


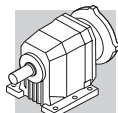
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36	135	3.3	38.1	6500	C363_38.1 S1 M1LA4	140	C363_38.1 P80 BN80A4	141
38	133	1.5	36.8	4070	C222_36.8 S1 M1LA4	132	C222_36.8 P80 BN80A4	133
38	130	2.3	36.1	5500	C322_36.1 S1 M1LA4	136	C322_36.1 P80 BN80A4	137
42	119	1.7	33.1	3970	C222_33.1 S1 M1LA4	132	C222_33.1 P80 BN80A4	133
42	119	2.5	33.1	5500	C322_33.1 S1 M1LA4	136	C322_33.1 P80 BN80A4	137
46	107	2.8	29.8	5500	C322_29.8 S1 M1LA4	136	C322_29.8 P80 BN80A4	137
47	107	1.9	29.6	3890	C222_29.6 S1 M1LA4	132	C222_29.6 P80 BN80A4	133
47	106	0.8	29.5	1820	C122_29.5 S1 M1LA4	128	C122_29.5 P80 BN80A4	129
51	98	2.0	27.2	3860	C222_27.2 S1 M1LA4	132	C222_27.2 P80 BN80A4	133
51	97	3.1	26.9	5500	C322_26.9 S1 M1LA4	136	C322_26.9 P80 BN80A4	137
54	92	1.0	25.4	2000	C122_25.4 S1 M1LA4	128	C122_25.4 P80 BN80A4	129
55	91	3.3	25.1	5500	C322_25.1 S1 M1LA4	136	C322_25.1 P80 BN80A4	137
57	88	2.3	24.3	3720	C222_24.3 S1 M1LA4	132	C222_24.3 P80 BN80A4	133
59	84	1.0	23.2	2000	C122_23.2 S1 M1LA4	128	C122_23.2 P80 BN80A4	129
64	77	2.5	21.5	3700	C222_21.5 S1 M1LA4	132	C222_21.5 P80 BN80A4	133
67	74	1.1	20.6	2000	C122_20.6 S1 M1LA4	128	C122_20.6 P80 BN80A4	129
69	72	2.6	20.0	3560	C222_20.0 S1 M1LA4	132	C222_20.0 P80 BN80A4	133
75	66	1.2	18.4	2000	C122_18.4 S1 M1LA4	128	C122_18.4 P80 BN80A4	129
76	65	2.8	18.1	3500	C222_18.1 S1 M1LA4	132	C222_18.1 P80 BN80A4	133
80	62	1.2	17.2	2000	C122_17.2 S1 M1LA4	128	C122_17.2 P80 BN80A4	129
87	57	3.1	15.8	3350	C222_15.8 S1 M1LA4	132	C222_15.8 P80 BN80A4	133
89	56	1.3	15.4	2000	C122_15.4 S1 M1LA4	128	C122_15.4 P80 BN80A4	129
95	53	3.2	14.5	3300	C222_14.5 S1 M1LA4	132	C222_14.5 P80 BN80A4	133
103	48	1.4	13.4	1990	C122_13.4 S1 M1LA4	128	C122_13.4 P80 BN80A4	129
116	43	1.6	11.9	1920	C122_11.9 S1 M1LA4	128	C122_11.9 P80 BN80A4	129
121	41	1.6	7.6	1910	C122_7.6 S2 M2SA6	128	C122_7.6 P80 BN80B6	129
123	40	1.0	11.2	480	C052_11.2 S1 M1LA4	127		
137	36	1.7	10.1	1850	C122_10.1 S1 M1LA4	128	C122_10.1 P80 BN80A4	129
151	33	3.3	6.1	2860	C222_6.1 S2 M2SA6	132	C222_6.1 P80 BN80B6	133
156	32	1.9	8.8	1780	C122_8.8 S1 M1LA4	128	C122_8.8 P80 BN80A4	129
181	28	2.0	7.6	1720	C122_7.6 S1 M1LA4	128	C122_7.6 P80 BN80A4	129
186	27	1.1	7.4	460	C052_7.4 S1 M1LA4	127		
206	24	1.2	6.7	450	C052_6.7 S1 M1LA4	127		
221	22	2.4	6.2	1590	C122_6.2 S1 M1LA4	128	C122_6.2 P80 BN80A4	129
237	21	2.5	11.9	1580	C122_11.9 S1 M1SD2	128	C122_11.9 P71 BN71B2	129
246	20	2.5	5.6	1540	C122_5.6 S1 M1LA4	128	C122_5.6 P80 BN80A4	129
251	20	1.5	5.5	430	C052_5.5 S1 M1LA4	127		
279	18	2.7	10.1	1530	C122_10.1 S1 M1SD2	128	C122_10.1 P71 BN71B2	129
283	18	2.7	4.9	1490	C122_4.9 S1 M1LA4	128	C122_4.9 P80 BN80A4	129
320	16	3.0	8.8	1470	C122_8.8 S1 M1SD2	128	C122_8.8 P71 BN71B2	129
320	16	2.9	4.3	1420	C122_4.3 S1 M1LA4	128	C122_4.3 P80 BN80A4	129
369	14	3.3	7.6	1410	C122_7.6 S1 M1SD2	128	C122_7.6 P71 BN71B2	129
378	13	3.2	3.7	1370	C122_3.7 S1 M1LA4	128	C122_3.7 P80 BN80A4	129
451	11	3.8	6.2	1300	C122_6.2 S1 M1SD2	128	C122_6.2 P71 BN71B2	129
504	10	4.0	5.6	1260	C122_5.6 S1 M1SD2	128	C122_5.6 P71 BN71B2	129
577	9	4.4	4.9	1210	C122_4.9 S1 M1SD2	128	C122_4.9 P71 BN71B2	129
656	8	4.7	4.3	1170	C122_4.3 S1 M1SD2	128	C122_4.3 P71 BN71B2	129
770	6	5.2	3.7	1110	C122_3.7 S1 M1SD2	128	C122_3.7 P71 BN71B2	129
881	6	5.7	3.2	990	C122_3.2 S1 M1SD2	128	C122_3.2 P71 BN71B2	129
1007	5	6.1	2.8	950	C122_2.8 S1 M1SD2	128	C122_2.8 P71 BN71B2	129

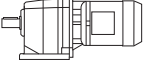


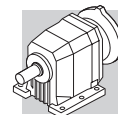
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0.91	7127	1.0	1006	60000	C904_1006 S2 M2SB6	162	C904_1006 P90 BN90S6	163
1.1	5773	1.2	1240	35000	C904_1240 S2 M2SA4	162	C904_1240 P80 BN80B4	163
1.5	4403	0.9	945.7	35000	C804_945.7 S2 M2SA4	159	C804_945.7 P80 BN80B4	160
1.5	4294	1.7	922.3	60000	C904_922.3 S2 M2SA4	162	C904_922.3 P80 BN80B4	163
1.8	3647	1.1	783.4	35000	C804_783.4 S2 M2SA4	159	C804_783.4 P80 BN80B4	160
1.8	3602	2.0	773.6	60000	C904_773.6 S2 M2SA4	162	C904_773.6 P80 BN80B4	163
2.1	3093	1.3	664.3	35000	C804_664.3 S2 M2SA4	159	C804_664.3 P80 BN80B4	160
2.1	3039	2.4	652.8	60000	C904_652.8 S2 M2SA4	162	C904_652.8 P80 BN80B4	163
2.6	2487	2.9	534.2	60000	C904_534.2 S2 M2SA4	162	C904_534.2 P80 BN80B4	163
2.6	2464	1.6	529.3	35000	C804_529.3 S2 M2SA4	159	C804_529.3 P80 BN80B4	160
3.1	2128	3.4	457.1	60000	C904_457.1 S2 M2SA4	162	C904_457.1 P80 BN80B4	163
3.1	2120	1.9	455.4	35000	C804_455.4 S2 M2SA4	159	C804_455.4 P80 BN80B4	160
3.2	2065	1.1	443.5	25000	C704_443.5 S2 M2SA4	156	C704_443.5 P80 BN80B4	157
3.3	1962	0.8	421.5	16000	C614_421.5 S2 M2SA4	152	C614_421.5 P80 BN80B4	153
3.4	1906	1.2	409.4	25000	C704_409.4 S2 M2SA4	156	C704_409.4 P80 BN80B4	157
3.8	1723	0.9	370.1	16000	C614_370.1 S2 M2SA4	152	C614_370.1 P80 BN80B4	153
3.8	1733	1.3	239.3	25000	C703_239.3 S2 M2SB6	156	C703_239.3 P90 BN90S6	157
4.1	1572	1.0	337.7	16000	C614_337.7 S2 M2SA4	152	C614_337.7 P80 BN80B4	153
4.3	1563	2.6	215.8	35000	C803_215.8 S2 M2SB6	159	C803_215.8 P90 BN90S6	160
4.4	1480	1.6	317.9	25000	C704_317.9 S2 M2SA4	156	C704_317.9 P80 BN80B4	157
4.6	1405	1.1	301.7	16000	C614_301.7 S2 M2SA4	152	C614_301.7 P80 BN80B4	153
4.7	1417	1.1	195.8	16000	C613_195.8 S2 M2SB6	152	C613_195.8 P90 BN90S6	153
5.1	1282	1.2	275.3	16000	C614_275.3 S2 M2SA4	152	C614_275.3 P80 BN80B4	153
5.1	1267	1.8	272.2	25000	C704_272.2 S2 M2SA4	156	C704_272.2 P80 BN80B4	157
5.2	1293	1.2	178.6	16000	C613_178.6 S2 M2SB6	152	C613_178.6 P90 BN90S6	153
5.3	1228	0.8	263.8	10000	C514_263.8 S2 M2SA4	148	C514_263.8 P80 BN80B4	149
5.6	1191	1.3	164.5	16000	C613_164.5 S2 M2SB6	152	C613_164.5 P90 BN90S6	153
5.8	1121	0.9	240.9	10000	C514_240.9 S2 M2SA4	148	C514_240.9 P80 BN80B4	149
5.8	1139	2.0	239.3	25000	C703_239.3 S2 M2SA4	156	C703_239.3 P80 BN80B4	157
6.3	1051	2.1	220.9	25000	C703_220.9 S2 M2SA4	156	C703_220.9 P80 BN80B4	157
6.4	1012	1.6	217.4	16000	C614_217.4 S2 M2SA4	152	C614_217.4 P80 BN80B4	153
6.5	1031	1.0	216.7	10000	C513_216.7 S2 M2SA4	148	C513_216.7 P80 BN80B4	149
7.1	941	1.1	197.9	10000	C513_197.9 S2 M2SA4	148	C513_197.9 P80 BN80B4	149
7.2	931	1.7	195.8	16000	C613_195.8 S2 M2SA4	152	C613_195.8 P80 BN80B4	153
7.2	924	2.5	194.1	25000	C703_194.1 S2 M2SA4	156	C703_194.1 P80 BN80B4	157
7.8	850	1.9	178.6	16000	C613_178.6 S2 M2SA4	152	C613_178.6 P80 BN80B4	153
8.0	836	1.2	175.8	10000	C513_175.8 S2 M2SA4	148	C513_175.8 P80 BN80B4	149
8.5	782	2.0	164.5	16000	C613_164.5 S2 M2SA4	152	C613_164.5 P80 BN80B4	153
8.6	775	3.0	162.8	25000	C703_162.8 S2 M2SA4	156	C703_162.8 P80 BN80B4	157
8.7	764	1.3	160.5	10000	C513_160.5 S2 M2SA4	148	C513_160.5 P80 BN80B4	149
9.3	714	2.2	150.0	16000	C613_150.0 S2 M2SA4	152	C613_150.0 P80 BN80B4	153
9.5	702	1.4	147.4	10000	C513_147.4 S2 M2SA4	148	C513_147.4 P80 BN80B4	149
10.0	668	2.4	140.5	16000	C613_140.5 S2 M2SA4	152	C613_140.5 P80 BN80B4	153
10.2	654	3.5	137.4	25000	C703_137.4 S2 M2SA4	156	C703_137.4 P80 BN80B4	157
10.4	641	1.6	134.6	10000	C513_134.6 S2 M2SA4	148	C513_134.6 P80 BN80B4	149
10.5	632	0.9	132.9	7000	C413_132.9 S2 M2SA4	144	C413_132.9 P80 BN80B4	145
10.9	610	2.6	128.1	16000	C613_128.1 S2 M2SA4	152	C613_128.1 P80 BN80B4	153
11.3	592	1.7	124.4	10000	C513_124.4 S2 M2SA4	148	C513_124.4 P80 BN80B4	149
11.6	574	1.0	120.6	7000	C413_120.6 S2 M2SA4	144	C413_120.6 P80 BN80B4	145
12.3	541	3.0	113.6	16000	C613_113.6 S2 M2SA4	152	C613_113.6 P80 BN80B4	153

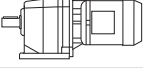


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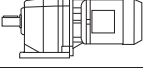
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
12.3	541	1.9	113.6	10000	C513_113.6 S2 M2SA4	148	C513_113.6 P80 BN80B4	149
12.7	524	1.1	110.1	7000	C413_110.1 S2 M2SA4	144	C413_110.1 P80 BN80B4	145
13.5	493	3.2	103.6	16000	C613_103.6 S2 M2SA4	152	C613_103.6 P80 BN80B4	153
13.7	487	1.2	102.3	7000	C413_102.3 S2 M2SA4	144	C413_102.3 P80 BN80B4	145
13.7	485	0.9	102.2	6500	C363_102.2 S2 M2SA4	140	C363_102.2 P80 BN80B4	141
13.8	484	2.1	101.8	10000	C513_101.8 S2 M2SA4	148	C513_101.8 P80 BN80B4	149
15.0	444	1.4	93.3	7000	C413_93.3 S2 M2SA4	144	C413_93.3 P80 BN80B4	145
15.1	442	2.3	93.0	10000	C513_93.0 S2 M2SA4	148	C513_93.0 P80 BN80B4	149
15.2	436	1.0	91.9	6500	C363_91.9 S2 M2SA4	140	C363_91.9 P80 BN80B4	141
16.8	394	1.1	83.1	6500	C363_83.1 S2 M2SA4	140	C363_83.1 P80 BN80B4	141
17.2	388	1.5	81.5	7000	C413_81.5 S2 M2SA4	144	C413_81.5 P80 BN80B4	145
17.5	380	2.6	79.9	10000	C513_79.9 S2 M2SA4	148	C513_79.9 P80 BN80B4	149
18.0	368	1.2	77.6	6500	C363_77.6 S2 M2SA4	140	C363_77.6 P80 BN80B4	141
18.8	354	1.7	74.4	7000	C413_74.4 S2 M2SA4	144	C413_74.4 P80 BN80B4	145
19.2	347	2.9	72.9	10000	C513_72.9 S2 M2SA4	148	C513_72.9 P80 BN80B4	149
19.8	336	1.3	70.8	6500	C363_70.8 S2 M2SA4	140	C363_70.8 P80 BN80B4	141
21.7	307	3.3	64.6	10000	C513_64.6 S2 M2SA4	148	C513_64.6 P80 BN80B4	149
21.8	306	2.0	64.3	7000	C413_64.3 S2 M2SA4	144	C413_64.3 P80 BN80B4	145
22.6	294	1.5	62.0	6500	C363_62.0 S2 M2SA4	140	C363_62.0 P80 BN80B4	141
22.6	301	1.0	40.7	5500	C322_40.7 S2 M2SB6	136	C322_40.7 P90 BN90S6	137
23.9	279	2.1	58.7	7000	C413_58.7 S2 M2SA4	144	C413_58.7 P80 BN80B4	145
24.6	277	2.8	57.0	10000	C512_57.0 S2 M2SA4	148	C512_57.0 P80 BN80B4	149
24.9	266	1.7	56.2	6500	C363_56.2 S2 M2SA4	140	C363_56.2 P80 BN80B4	141
26.7	254	1.2	52.4	5500	C322_52.4 S2 M2SA4	136	C322_52.4 P80 BN80B4	137
27.2	245	2.4	51.5	7000	C413_51.5 S2 M2SA4	144	C413_51.5 P80 BN80B4	145
27.2	250	2.8	51.4	10000	C512_51.4 S2 M2SA4	148	C512_51.4 P80 BN80B4	149
29.1	228	2.0	48.2	6500	C363_48.2 S2 M2SA4	140	C363_48.2 P80 BN80B4	141
29.3	232	3.4	47.8	10000	C512_47.8 S2 M2SA4	148	C512_47.8 P80 BN80B4	149
30	223	2.7	47.0	7000	C413_47.0 S2 M2SA4	144	C413_47.0 P80 BN80B4	145
31	218	2.3	44.8	7000	C412_44.8 S2 M2SA4	144	C412_44.8 P80 BN80B4	145
31	219	1.4	45.3	5500	C322_45.3 S2 M2SA4	136	C322_45.3 P80 BN80B4	137
32	206	2.2	43.5	6500	C363_43.5 S2 M2SA4	140	C363_43.5 P80 BN80B4	141
32	210	0.9	43.3	3810	C222_43.3 S2 M2SA4	132	C222_43.3 P80 BN80B4	133
34	197	1.5	40.7	5500	C322_40.7 S2 M2SA4	136	C322_40.7 P80 BN80B4	137
35	192	3.1	40.3	7000	C413_40.3 S2 M2SA4	144	C413_40.3 P80 BN80B4	145
37	181	2.5	38.1	6500	C363_38.1 S2 M2SA4	140	C363_38.1 P80 BN80B4	141
38	180	2.8	37.1	7000	C412_37.1 S2 M2SA4	144	C412_37.1 P80 BN80B4	145
38	178	1.1	36.8	3750	C222_36.8 S2 M2SA4	132	C222_36.8 P80 BN80B4	133
39	175	1.7	36.1	5500	C322_36.1 S2 M2SA4	136	C322_36.1 P80 BN80B4	137
40	164	2.7	34.6	6500	C363_34.6 S2 M2SA4	140	C363_34.6 P80 BN80B4	141
42	160	1.2	33.1	3680	C222_33.1 S2 M2SA4	132	C222_33.1 P80 BN80B4	133
42	160	1.9	33.1	5500	C322_33.1 S2 M2SA4	136	C322_33.1 P80 BN80B4	137
47	144	2.1	29.8	5500	C322_29.8 S2 M2SA4	136	C322_29.8 P80 BN80B4	137
47	144	1.4	29.6	3630	C222_29.6 S2 M2SA4	132	C222_29.6 P80 BN80B4	133
49	136	3.3	28.7	6490	C363_28.7 S2 M2SA4	140	C363_28.7 P80 BN80B4	141
52	132	1.5	27.2	3600	C222_27.2 S2 M2SA4	132	C222_27.2 P80 BN80B4	133
52	130	2.3	26.9	5500	C322_26.9 S2 M2SA4	136	C322_26.9 P80 BN80B4	137
56	122	2.5	25.1	5460	C322_25.1 S2 M2SA4	136	C322_25.1 P80 BN80B4	137
58	118	1.7	24.3	3510	C222_24.3 S2 M2SA4	132	C222_24.3 P80 BN80B4	133
61	111	2.7	22.9	5300	C322_22.9 S2 M2SA4	136	C322_22.9 P80 BN80B4	137
65	104	1.9	21.5	3480	C222_21.5 S2 M2SA4	132	C222_21.5 P80 BN80B4	133

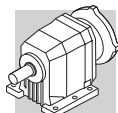


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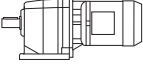
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
70	97	3.0	20.1	5150	C322_20.1 S2 M2SA4	136	C322_20.1 P80 BN80B4	137
70	97	2.0	20.0	3380	C222_20.0 S2 M2SA4	132	C222_20.0 P80 BN80B4	133
77	88	2.1	18.1	3350	C222_18.1 S2 M2SA4	132	C222_18.1 P80 BN80B4	133
82	83	0.9	17.2	1750	C122_17.2 S2 M2SA4	128	C122_17.2 P80 BN80B4	129
88	77	2.3	15.8	3210	C222_15.8 S2 M2SA4	132	C222_15.8 P80 BN80B4	133
91	75	1.0	15.4	1920	C122_15.4 S2 M2SA4	128	C122_15.4 P80 BN80B4	129
96	70	2.4	14.5	3200	C222_14.5 S2 M2SA4	132	C222_14.5 P80 BN80B4	133
104	65	1.1	13.4	1870	C122_13.4 S2 M2SA4	128	C122_13.4 P80 BN80B4	129
113	60	2.7	12.4	3030	C222_12.4 S2 M2SA4	132	C222_12.4 P80 BN80B4	133
118	58	1.2	11.9	1780	C122_11.9 S2 M2SA4	128	C122_11.9 P80 BN80B4	129
126	54	2.9	11.1	2980	C222_11.1 S2 M2SA4	132	C222_11.1 P80 BN80B4	133
139	49	1.3	10.1	1760	C122_10.1 S2 M2SA4	128	C122_10.1 P80 BN80B4	129
145	47	3.1	9.6	2840	C222_9.6 S2 M2SA4	132	C222_9.6 P80 BN80B4	133
158	43	1.4	8.8	1700	C122_8.8 S2 M2SA4	128	C122_8.8 P80 BN80B4	129
162	42	3.3	8.7	2760	C222_8.7 S2 M2SA4	132	C222_8.7 P80 BN80B4	133
184	37	1.5	7.6	1650	C122_7.6 S2 M2SA4	128	C122_7.6 P80 BN80B4	129
225	30	1.8	6.2	1530	C122_6.2 S2 M2SA4	128	C122_6.2 P80 BN80B4	129
236	29	1.8	11.9	1520	C122_11.9 S1 M1LA2	128	C122_11.9 P80 BN80A2	129
250	27	1.9	5.6	1470	C122_5.6 S2 M2SA4	128	C122_5.6 P80 BN80B4	129
278	24	2.0	10.1	1490	C122_10.1 S1 M1LA2	128	C122_10.1 P80 BN80A2	129
288	24	2.0	4.9	1440	C122_4.9 S2 M2SA4	128	C122_4.9 P80 BN80B4	129
319	22	2.2	8.8	1420	C122_8.8 S1 M1LA2	128	C122_8.8 P80 BN80A2	129
325	21	2.2	4.3	1370	C122_4.3 S2 M2SA4	128	C122_4.3 P80 BN80B4	129
332	20	2.1	2.8	1390	C122_2.8 S2 M2SB6	128	C122_2.8 P90 BN90S6	129
367	19	2.4	7.6	1380	C122_7.6 S1 M1LA2	128	C122_7.6 P80 BN80A2	129
383	18	2.4	3.7	1330	C122_3.7 S2 M2SA4	128	C122_3.7 P80 BN80B4	129
436	16	2.6	3.2	1280	C122_3.2 S2 M2SA4	128	C122_3.2 P80 BN80B4	129
449	15	2.8	6.2	1280	C122_6.2 S1 M1LA2	128	C122_6.2 P80 BN80A2	129
506	13	2.8	2.8	1230	C122_2.8 S2 M2SA4	128	C122_2.8 P80 BN80B4	129
502	14	2.9	5.6	1240	C122_5.6 S1 M1LA2	128	C122_5.6 P80 BN80A2	129
575	12	3.2	4.9	1190	C122_4.9 S1 M1LA2	128	C122_4.9 P80 BN80A2	129
653	11	3.4	4.3	1050	C122_4.3 S1 M1LA2	128	C122_4.3 P80 BN80A2	129
767	9	3.8	3.7	1090	C122_3.7 S1 M1LA2	128	C122_3.7 P80 BN80A2	129
878	8	4.0	3.2	1050	C122_3.2 S1 M1LA2	128	C122_3.2 P80 BN80A2	129
1012	7	4.5	2.8	1010	C122_2.8 S1 M1LA2	128	C122_2.8 P80 BN80A2	129

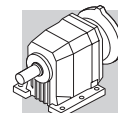
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n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
0.85	11232	1.1	1081	85000	C1004_1081 S3 M3SA6	165	C1004_1081 P90 BN90L6	166
1.0	9437	1.3	908.2	85000	C1004_908.2 S3 M3SA6	165	C1004_908.2 P90 BN90L6	166
1.2	7764	0.9	1137	60000	C904_1137 S2 M2SB4	162	C904_1137 P90 BN90S4	163
1.3	7381	1.6	1081	85000	C1004_1081 S2 M2SB4	165	C1004_1081 P90 BN90S4	166
1.4	6869	1.0	1006	60000	C904_1006 S2 M2SB4	162	C904_1006 P90 BN90S4	163
1.4	6856	1.8	1004	85000	C1004_1004 S2 M2SB4	165	C1004_1004 P90 BN90S4	166
1.7	5763	1.2	844.0	60000	C904_844.0 S2 M2SB4	162	C904_844.0 P90 BN90S4	163
1.7	5758	2.1	843.3	85000	C1004_843.3 S2 M2SB4	165	C1004_843.3 P90 BN90S4	166
2.1	4457	1.6	652.8	60000	C904_652.8 S2 M2SB4	162	C904_652.8 P90 BN90S4	163

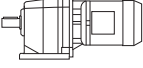


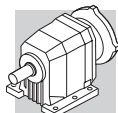
1.1 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
2.2	4284	2.8	627.4	85000	C1004_627.4 S2 M2SB4	165	C1004_627.4 P90 BN90S4	166
2.6	3648	2.0	534.2	60000	C904_534.2 S2 M2SB4	162	C904_534.2 P90 BN90S4	163
2.6	3614	1.1	529.3	35000	C804_529.3 S2 M2SB4	159	C804_529.3 P90 BN90S4	160
3.3	2861	2.5	419.0	60000	C904_419.0 S2 M2SB4	162	C904_419.0 P90 BN90S4	163
3.4	2851	1.4	417.5	35000	C804_417.5 S2 M2SB4	159	C804_417.5 P90 BN90S4	160
3.8	2490	1.6	364.7	35000	C804_364.7 S2 M2SB4	159	C804_364.7 P90 BN90S4	160
4.1	2351	1.0	344.3	25000	C704_344.3 S2 M2SB4	156	C704_344.3 P90 BN90S4	157
4.2	2283	1.8	334.3	35000	C804_334.3 S2 M2SB4	159	C804_334.3 P90 BN90S4	160
4.4	2171	1.1	317.9	25000	C704_317.9 S2 M2SB4	156	C704_317.9 P90 BN90S4	157
4.6	2060	0.8	301.7	16000	C614_301.7 S2 M2SB4	152	C614_301.7 P90 BN90S4	153
4.9	1951	2.1	285.7	35000	C804_285.7 S2 M2SB4	159	C804_285.7 P90 BN90S4	160
5.1	1880	0.9	275.3	16000	C614_275.3 S2 M2SB4	152	C614_275.3 P90 BN90S4	153
5.1	1859	1.2	272.2	25000	C704_272.2 S2 M2SB4	156	C704_272.2 P90 BN90S4	157
5.6	1716	1.3	251.3	25000	C704_251.3 S2 M2SB4	156	C704_251.3 P90 BN90S4	157
5.6	1746	0.9	164.5	16000	C613_164.5 S3 M3SA6	152	C613_164.5 P90 BN90L6	153
6.1	1593	1.0	150.0	16000	C613_150.0 S3 M3SA6	152	C613_150.0 P90 BN90L6	153
6.3	1542	1.5	220.9	25000	C703_220.9 S2 M2SB4	156	C703_220.9 P90 BN90S4	157
7.2	1366	1.2	195.8	16000	C613_195.8 S2 M2SB4	152	C613_195.8 P90 BN90S4	153
7.8	1250	1.8	179.2	25000	C703_179.2 S2 M2SB4	156	C703_179.2 P90 BN90S4	157
7.8	1246	1.3	178.6	16000	C613_178.6 S2 M2SB4	152	C613_178.6 P90 BN90S4	153
8.5	1148	1.4	164.5	16000	C613_164.5 S2 M2SB4	152	C613_164.5 P90 BN90S4	153
9.3	1049	2.2	150.3	25000	C703_150.3 S2 M2SB4	156	C703_150.3 P90 BN90S4	157
9.3	1047	1.5	150.0	16000	C613_150.0 S2 M2SB4	152	C613_150.0 P90 BN90S4	153
9.5	1029	1.0	147.4	10000	C513_147.4 S2 M2SB4	148	C513_147.4 P90 BN90S4	149
10.0	980	1.6	140.5	16000	C613_140.5 S2 M2SB4	152	C613_140.5 P90 BN90S4	153
10.4	939	1.1	134.6	10000	C513_134.6 S2 M2SB4	148	C513_134.6 P90 BN90S4	149
10.9	894	1.8	128.1	16000	C613_128.1 S2 M2SB4	152	C613_128.1 P90 BN90S4	153
11.0	885	2.6	126.8	25000	C703_126.8 S2 M2SB4	156	C703_126.8 P90 BN90S4	157
11.3	868	1.2	124.4	10000	C513_124.4 S2 M2SB4	148	C513_124.4 P90 BN90S4	149
12.3	793	2.0	113.6	16000	C613_113.6 S2 M2SB4	152	C613_113.6 P90 BN90S4	153
12.3	793	1.3	113.6	10000	C513_113.6 S2 M2SB4	148	C513_113.6 P90 BN90S4	149
12.5	785	2.9	112.4	25000	C703_112.4 S2 M2SB4	156	C703_112.4 P90 BN90S4	157
13.5	723	2.2	103.6	16000	C613_103.6 S2 M2SB4	152	C613_103.6 P90 BN90S4	153
13.8	710	1.4	101.8	10000	C513_101.8 S2 M2SB4	148	C513_101.8 P90 BN90S4	149
15.0	651	0.9	93.3	7000	C413_93.3 S2 M2SB4	144	C413_93.3 P90 BN90S4	145
15.1	649	1.5	93.0	10000	C513_93.0 S2 M2SB4	148	C513_93.0 P90 BN90S4	149
15.4	635	2.5	91.0	16000	C613_91.0 S2 M2SB4	152	C613_91.0 P90 BN90S4	153
16.9	579	2.8	83.0	16000	C613_83.0 S2 M2SB4	152	C613_83.0 P90 BN90S4	153
17.2	569	1.1	81.5	7000	C413_81.5 S2 M2SB4	144	C413_81.5 P90 BN90S4	145
17.5	557	1.8	79.9	10000	C513_79.9 S2 M2SB4	148	C513_79.9 P90 BN90S4	149
18.8	519	1.2	74.4	7000	C413_74.4 S2 M2SB4	144	C413_74.4 P90 BN90S4	145
18.9	518	3.1	74.2	16000	C613_74.2 S2 M2SB4	152	C613_74.2 P90 BN90S4	153
19.2	509	2.0	72.9	10000	C513_72.9 S2 M2SB4	148	C513_72.9 P90 BN90S4	149
19.8	494	0.9	70.8	6500	C363_70.8 S2 M2SB4	140	C363_70.8 P90 BN90S4	141
20.7	472	3.4	67.7	16000	C613_67.7 S2 M2SB4	152	C613_67.7 P90 BN90S4	153
21.7	451	2.2	64.6	10000	C513_64.6 S2 M2SB4	148	C513_64.6 P90 BN90S4	149
21.8	449	1.3	64.3	7000	C413_64.3 S2 M2SB4	144	C413_64.3 P90 BN90S4	145
22.6	433	1.0	62.0	6500	C363_62.0 S2 M2SB4	140	C363_62.0 P90 BN90S4	141
23.7	412	2.4	59.0	10000	C513_59.0 S2 M2SB4	148	C513_59.0 P90 BN90S4	149
23.9	409	1.5	58.7	7000	C413_58.7 S2 M2SB4	144	C413_58.7 P90 BN90S4	145
24.6	406	1.9	57.0	10000	C512_57.0 S2 M2SB4	148	C512_57.0 P90 BN90S4	149

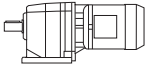


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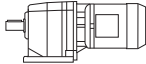
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
24.9	392	1.1	56.2	6500	C363_56.2 S2 M2SB4	140	C363_56.2 P90 BN90S4	141
27.2	359	1.7	51.5	7000	C413_51.5 S2 M2SB4	144	C413_51.5 P90 BN90S4	145
27.2	366	1.9	51.4	10000	C512_51.4 S2 M2SB4	148	C512_51.4 P90 BN90S4	149
27.4	357	2.8	51.2	10000	C513_51.2 S2 M2SB4	148	C513_51.2 P90 BN90S4	149
29.1	336	1.3	48.2	6500	C363_48.2 S2 M2SB4	140	C363_48.2 P90 BN90S4	141
29.3	341	2.3	47.8	10000	C512_47.8 S2 M2SB4	148	C512_47.8 P90 BN90S4	149
29.8	328	1.8	47.0	7000	C413_47.0 S2 M2SB4	144	C413_47.0 P90 BN90S4	145
30	326	3.1	46.7	10000	C513_46.7 S2 M2SB4	148	C513_46.7 P90 BN90S4	149
31	319	1.6	44.8	7000	C412_44.8 S2 M2SB4	144	C412_44.8 P90 BN90S4	145
31	322	0.9	45.3	5500	C322_45.3 S2 M2SB4	136	C322_45.3 P90 BN90S4	137
32	307	2.5	43.1	10000	C512_43.1 S2 M2SB4	148	C512_43.1 P90 BN90S4	149
32	303	1.5	43.5	6500	C363_43.5 S2 M2SB4	140	C363_43.5 P90 BN90S4	141
34	290	1.0	40.7	5500	C322_40.7 S2 M2SB4	136	C322_40.7 P90 BN90S4	137
35	288	2.8	40.4	10000	C512_40.4 S2 M2SB4	148	C512_40.4 P90 BN90S4	149
35	281	2.1	40.3	7000	C413_40.3 S2 M2SB4	144	C413_40.3 P90 BN90S4	145
37	266	1.7	38.1	6500	C363_38.1 S2 M2SB4	140	C363_38.1 P90 BN90S4	141
38	257	2.3	36.8	7000	C413_36.8 S2 M2SB4	144	C413_36.8 P90 BN90S4	145
38	264	1.9	37.1	7000	C412_37.1 S2 M2SB4	144	C412_37.1 P90 BN90S4	145
39	257	1.2	36.1	5500	C322_36.1 S2 M2SB4	136	C322_36.1 P90 BN90S4	137
40	241	1.9	34.6	6300	C363_34.6 S2 M2SB4	140	C363_34.6 P90 BN90S4	141
42	238	2.1	33.4	7000	C412_33.4 S2 M2SB4	144	C412_33.4 P90 BN90S4	145
42	236	1.3	33.1	5420	C322_33.1 S2 M2SB4	136	C322_33.1 P90 BN90S4	137
45	224	2.2	31.4	7000	C412_31.4 S2 M2SB4	144	C412_31.4 P90 BN90S4	145
45	218	2.6	31.2	7000	C413_31.2 S2 M2SB4	144	C413_31.2 P90 BN90S4	145
47	212	1.4	29.8	5360	C322_29.8 S2 M2SB4	136	C322_29.8 P90 BN90S4	137
47	211	0.9	29.6	3190	C222_29.6 S2 M2SB4	132	C222_29.6 P90 BN90S4	133
49	199	2.8	28.5	7000	C413_28.5 S2 M2SB4	144	C413_28.5 P90 BN90S4	145
49	202	2.5	28.3	7000	C412_28.3 S2 M2SB4	144	C412_28.3 P90 BN90S4	145
49	200	2.2	28.7	6190	C363_28.7 S2 M2SB4	140	C363_28.7 P90 BN90S4	141
52	193	1.0	27.2	3160	C222_27.2 S2 M2SB4	132	C222_27.2 P90 BN90S4	133
52	192	1.6	26.9	5220	C322_26.9 S2 M2SB4	136	C322_26.9 P90 BN90S4	137
53	183	2.4	26.2	5930	C363_26.2 S2 M2SB4	140	C363_26.2 P90 BN90S4	141
56	179	1.7	25.1	5180	C322_25.1 S2 M2SB4	136	C322_25.1 P90 BN90S4	137
58	173	1.2	24.3	3150	C222_24.3 S2 M2SB4	132	C222_24.3 P90 BN90S4	133
61	163	1.8	22.9	5050	C322_22.9 S2 M2SB4	136	C322_22.9 P90 BN90S4	137
62	161	3.1	22.6	6810	C412_22.6 S2 M2SB4	144	C412_22.6 P90 BN90S4	145
63	154	2.8	22.1	5680	C363_22.1 S2 M2SB4	140	C363_22.1 P90 BN90S4	141
65	153	1.3	21.5	3120	C222_21.5 S2 M2SB4	132	C222_21.5 P90 BN90S4	133
70	143	2.1	20.1	4920	C322_20.1 S2 M2SB4	136	C322_20.1 P90 BN90S4	137
70	143	1.3	20.0	3080	C222_20.0 S2 M2SB4	132	C222_20.0 P90 BN90S4	133
74	135	2.8	19.0	5580	C362_19.0 S2 M2SB4	140	C362_19.0 P90 BN90S4	141
77	130	2.1	18.2	4760	C322_18.2 S2 M2SB4	136	C322_18.2 P90 BN90S4	137
77	129	1.4	18.1	3020	C222_18.1 S2 M2SB4	132	C222_18.1 P90 BN90S4	133
81	123	3.1	17.2	5300	C362_17.2 S2 M2SB4	140	C362_17.2 P90 BN90S4	141
88	113	1.6	15.8	2970	C222_15.8 S2 M2SB4	132	C222_15.8 P90 BN90S4	133
90	111	2.4	15.6	4630	C322_15.6 S2 M2SB4	136	C322_15.6 P90 BN90S4	137
96	104	1.6	14.5	2940	C222_14.5 S2 M2SB4	132	C222_14.5 P90 BN90S4	133
99	100	2.5	14.1	4480	C322_14.1 S2 M2SB4	136	C322_14.1 P90 BN90S4	137
113	88	1.8	12.4	2840	C222_12.4 S2 M2SB4	132	C222_12.4 P90 BN90S4	133
114	88	2.8	12.3	4350	C322_12.3 S2 M2SB4	136	C322_12.3 P90 BN90S4	137
125	80	2.9	11.2	4200	C322_11.2 S2 M2SB4	136	C322_11.2 P90 BN90S4	137

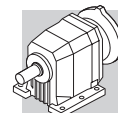


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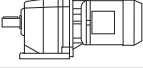
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
126	79	1.9	11.1	2800	C222_11.1 S2 M2SB4	132	C222_11.1 P90 BN90S4	133
139	72	0.9	10.1	1400	C122_10.1 S2 M2SB4	128	C122_10.1 P90 BN90S4	129
145	69	2.1	9.6	2700	C222_9.6 S2 M2SB4	132	C222_9.6 P90 BN90S4	133
151	66	3.3	9.3	4030	C322_9.3 S2 M2SB4	136	C322_9.3 P90 BN90S4	137
158	63	0.9	8.8	1560	C122_8.8 S2 M2SB4	128	C122_8.8 P90 BN90S4	129
162	62	2.2	8.7	2630	C222_8.7 S2 M2SB4	132	C222_8.7 P90 BN90S4	133
184	54	1.0	7.6	1550	C122_7.6 S2 M2SB4	128	C122_7.6 P90 BN90S4	129
198	50	2.6	7.1	2510	C222_7.1 S2 M2SB4	132	C222_7.1 P90 BN90S4	133
225	44	1.2	6.2	1220	C122_6.2 S2 M2SB4	128	C122_6.2 P90 BN90S4	129
230	43	2.4	6.1	2380	C222_6.1 S2 M2SB4	132	C222_6.1 P90 BN90S4	133
235	43	1.2	11.9	1420	C122_11.9 S2 M2SA2	128	C122_11.9 P80 BN80B2	129
250	40	1.3	5.6	1270	C122_5.6 S2 M2SB4	128	C122_5.6 P90 BN90S4	129
250	40	2.6	5.6	2350	C222_5.6 S2 M2SB4	132	C222_5.6 P90 BN90S4	133
252	40	3.0	11.1	2980	C222_11.1 S2 M2SA2	132	C222_11.1 P80 BN80B2	133
252	40	1.2	3.7	1320	C122_3.7 S3 M3SA6	128	C122_3.7 P90 BN90L6	129
278	36	1.4	10.1	1420	C122_10.1 S2 M2SA2	128	C122_10.1 P80 BN80B2	129
288	35	1.4	4.9	1370	C122_4.9 S2 M2SB4	128	C122_4.9 P90 BN90S4	129
294	34	2.9	4.8	2240	C222_4.8 S2 M2SB4	132	C222_4.8 P90 BN90S4	133
318	32	1.5	8.8	1370	C122_8.8 S2 M2SA2	128	C122_8.8 P80 BN80B2	129
325	31	1.5	4.3	1320	C122_4.3 S2 M2SB4	128	C122_4.3 P90 BN90S4	129
329	30	3.1	4.3	2200	C222_4.3 S2 M2SB4	132	C222_4.3 P90 BN90S4	133
332	30	1.4	2.8	1320	C122_2.8 S3 M3SA6	128	C122_2.8 P90 BN90L6	129
338	30	3.2	2.7	2160	C222_2.7 S3 M3SA6	132	C222_2.7 P90 BN90L6	133
367	27	1.7	7.6	1330	C122_7.6 S2 M2SA2	128	C122_7.6 P80 BN80B2	129
378	26	3.4	3.7	2090	C222_3.7 S2 M2SB4	132	C222_3.7 P90 BN90S4	133
383	26	1.6	3.7	1280	C122_3.7 S2 M2SB4	128	C122_3.7 P90 BN90S4	129
436	23	1.8	3.2	1230	C122_3.2 S2 M2SB4	128	C122_3.2 P90 BN90S4	129
449	22	1.9	6.2	1230	C122_6.2 S2 M2SA2	128	C122_6.2 P80 BN80B2	129
500	20	2.0	5.6	1190	C122_5.6 S2 M2SA2	128	C122_5.6 P80 BN80B2	129
506	20	1.9	2.8	1190	C122_2.8 S2 M2SB4	128	C122_2.8 P90 BN90S4	129
575	17	2.2	4.9	1150	C122_4.9 S2 M2SA2	128	C122_4.9 P80 BN80B2	129
651	16	2.3	4.3	1110	C122_4.3 S2 M2SA2	128	C122_4.3 P80 BN80B2	129
767	13	2.6	3.7	1070	C122_3.7 S2 M2SA2	128	C122_3.7 P80 BN80B2	129
875	12	1.5	3.2	1020	C122_3.2 S2 M2SA2	128	C122_3.2 P80 BN80B2	129
1012	10	3.0	2.8	980	C122_2.8 S2 M2SA2	128	C122_2.8 P80 BN80B2	129

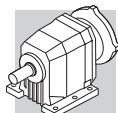
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n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
1.0	12595	1.0	908.2	85000	C1004_908.2 S3 M3LA6	165	C1004_908.2 P100 BN100LA6	166
1.3	9994	1.2	1081	85000	C1004_1081 S3 M3SA4	165	C1004_1081 P90 BN90LA4	166
1.6	8397	1.4	908.2	85000	C1004_908.2 S3 M3SA4	165	C1004_908.2 P90 BN90LA4	166
1.7	7803	0.9	844.0	60000	C904_844.0 S3 M3SA4	162	C904_844.0 P90 BN90LA4	163
2.0	6659	1.8	720.3	85000	C1004_720.3 S3 M3SA4	165	C1004_720.3 P90 BN90LA4	166
2.0	6584	1.1	712.2	60000	C904_712.2 S3 M3SA4	162	C904_712.2 P90 BN90LA4	163
2.6	4939	1.5	534.2	60000	C904_534.2 S3 M3SA4	162	C904_534.2 P90 BN90LA4	163
3.1	4226	1.7	457.1	60000	C904_457.1 S3 M3SA4	162	C904_457.1 P90 BN90LA4	163
3.1	4210	1.0	455.4	35000	C804_455.4 S3 M3SA4	159	C804_455.4 P90 BN90LA4	160

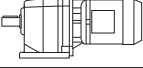


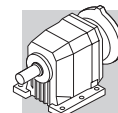
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n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
3.4	3874	1.9	419.0	60000	C904_419.0 S3 M3SA4	162	C904_419.0 P90 BN90LA4	163
3.4	3860	1.0	417.5	35000	C804_417.5 S3 M3SA4	159	C804_417.5 P90 BN90LA4	160
4.2	3134	2.3	339.0	60000	C904_339.0 S3 M3SA4	162	C904_339.0 P90 BN90LA4	163
4.2	3091	1.3	334.3	35000	C804_334.3 S3 M3SA4	159	C804_334.3 P90 BN90LA4	160
4.8	2708	2.7	292.9	60000	C904_292.9 S3 M3SA4	162	C904_292.9 P90 BN90LA4	163
4.9	2641	1.5	285.7	35000	C804_285.7 S3 M3SA4	159	C804_285.7 P90 BN90LA4	160
5.2	2517	0.9	272.2	25000	C704_272.2 S3 M3SA4	156	C704_272.2 P90 BN90LA4	157
5.4	2421	1.7	261.9	35000	C804_261.9 S3 M3SA4	159	C804_261.9 P90 BN90LA4	160
5.6	2323	1.0	251.3	25000	C704_251.3 S3 M3SA4	156	C704_251.3 P90 BN90LA4	157
5.9	2261	1.0	239.3	25000	C703_239.3 S3 M3SA4	156	C703_239.3 P90 BN90LA4	157
6.5	2010	0.8	217.4	16000	C614_217.4 S3 M3SA4	152	C614_217.4 P90 BN90LA4	153
6.5	2039	2.0	215.8	35000	C803_215.8 S3 M3SA4	159	C803_215.8 P90 BN90LA4	160
7.3	1834	1.3	194.1	25000	C703_194.1 S3 M3SA4	156	C703_194.1 P90 BN90LA4	157
7.9	1693	1.4	179.2	25000	C703_179.2 S3 M3SA4	156	C703_179.2 P90 BN90LA4	157
7.9	1687	0.9	178.6	16000	C613_178.6 S3 M3SA4	152	C613_178.6 P90 BN90LA4	153
8.3	1597	2.5	169.0	35000	C803_169.0 S3 M3SA4	159	C803_169.0 P90 BN90LA4	160
8.6	1554	1.0	164.5	16000	C613_164.5 S3 M3SA4	152	C613_164.5 P90 BN90LA4	153
9.4	1420	1.6	150.3	25000	C703_150.3 S3 M3SA4	156	C703_150.3 P90 BN90LA4	157
9.4	1418	1.1	150.0	16000	C613_150.0 S3 M3SA4	152	C613_150.0 P90 BN90LA4	153
9.5	1409	2.8	149.1	35000	C803_149.1 S3 M3SA4	159	C803_149.1 P90 BN90LA4	160
10.0	1327	1.2	140.5	16000	C613_140.5 S3 M3SA4	152	C613_140.5 P90 BN90LA4	153
10.3	1298	1.8	137.4	25000	C703_137.4 S3 M3SA4	156	C703_137.4 P90 BN90LA4	157
10.3	1291	3.1	136.7	35000	C803_136.7 S3 M3SA4	159	C803_136.7 P90 BN90LA4	160
11.0	1211	1.3	128.1	16000	C613_128.1 S3 M3SA4	152	C613_128.1 P90 BN90LA4	153
11.1	1198	1.9	126.8	25000	C703_126.8 S3 M3SA4	156	C703_126.8 P90 BN90LA4	157
12.4	1073	1.5	113.6	16000	C613_113.6 S3 M3SA4	152	C613_113.6 P90 BN90LA4	153
12.4	1073	0.9	113.6	10000	C513_113.6 S3 M3SA4	148	C513_113.6 P90 BN90LA4	149
13.6	981	2.3	103.8	25000	C703_103.8 S3 M3SA4	156	C703_103.8 P90 BN90LA4	157
13.6	979	1.6	103.6	16000	C613_103.6 S3 M3SA4	152	C613_103.6 P90 BN90LA4	153
13.8	962	1.0	101.8	10000	C513_101.8 S3 M3SA4	148	C513_101.8 P90 BN90LA4	149
15.2	878	1.1	93.0	10000	C513_93.0 S3 M3SA4	148	C513_93.0 P90 BN90LA4	149
15.5	860	1.9	91.0	16000	C613_91.0 S3 M3SA4	152	C613_91.0 P90 BN90LA4	153
16.0	833	2.8	88.2	25000	C703_88.2 S3 M3SA4	156	C703_88.2 P90 BN90LA4	157
16.5	826	1.0	57.0	10000	C512_57.0 S3 M3LA6	148	C512_57.0 P100 BN100LA6	149
17.0	785	2.0	83.0	16000	C613_83.0 S3 M3SA4	152	C613_83.0 P90 BN90LA4	153
17.3	769	3.0	81.4	25000	C703_81.4 S3 M3SA4	156	C703_81.4 P90 BN90LA4	157
17.7	755	1.3	79.9	10000	C513_79.9 S3 M3SA4	148	C513_79.9 P90 BN90LA4	149
18.3	744	1.0	51.4	10000	C512_51.4 S3 M3LA6	148	C512_51.4 P100 BN100LA6	149
19.0	701	2.3	74.2	16000	C613_74.2 S3 M3SA4	152	C613_74.2 P90 BN90LA4	153
19.3	689	1.5	72.9	10000	C513_72.9 S3 M3SA4	148	C513_72.9 P90 BN90LA4	149
19.7	692	1.2	47.8	10000	C512_47.8 S3 M3LA6	148	C512_47.8 P100 BN100LA6	149
19.8	674	3.4	71.3	25000	C703_71.3 S3 M3SA4	156	C703_71.3 P90 BN90LA4	157
20.8	640	2.5	67.7	16000	C613_67.7 S3 M3SA4	152	C613_67.7 P90 BN90LA4	153
21.8	624	1.3	43.1	10000	C512_43.1 S3 M3LA6	148	C512_43.1 P100 BN100LA6	149
21.8	610	1.6	64.6	10000	C513_64.6 S3 M3SA4	148	C513_64.6 P90 BN90LA4	149
21.9	607	1.0	64.3	7000	C413_64.3 S3 M3SA4	144	C413_64.3 P90 BN90LA4	145
23.9	557	1.8	59.0	10000	C513_59.0 S3 M3SA4	148	C513_59.0 P90 BN90LA4	149
24.0	554	1.1	58.7	7000	C413_58.7 S3 M3SA4	144	C413_58.7 P90 BN90LA4	145
24.1	554	2.9	58.6	16000	C613_58.6 S3 M3SA4	152	C613_58.6 P90 BN90LA4	153
24.7	550	1.4	57.0	10000	C512_57.0 S3 M3SA4	148	C512_57.0 P90 BN90LA4	149
26.4	505	3.2	53.5	16000	C613_53.5 S3 M3SA4	152	C613_53.5 P90 BN90LA4	153

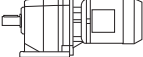


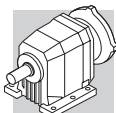
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n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
27.4	486	1.2	51.5	7000	C413_51.5 S3 M3SA4	144	C413_51.5 P90 BN90LA4	145
27.4	496	1.4	51.4	10000	C512_51.4 S3 M3SA4	148	C512_51.4 P90 BN90LA4	149
27.6	483	2.1	51.2	10000	C513_51.2 S3 M3SA4	148	C513_51.2 P90 BN90LA4	149
29.3	457	1.0	48.2	6290	C363_48.2 S3 M3SA4	140	C363_48.2 P90 BN90LA4	141
29.5	462	1.7	47.8	10000	C512_47.8 S3 M3SA4	148	C512_47.8 P90 BN90LA4	149
30	444	1.4	47.0	7000	C413_47.0 S3 M3SA4	144	C413_47.0 P90 BN90LA4	145
30	441	2.3	46.7	10000	C513_46.7 S3 M3SA4	148	C513_46.7 P90 BN90LA4	149
32	432	1.2	44.8	7000	C412_44.8 S3 M3SA4	144	C412_44.8 P90 BN90LA4	145
32	412	1.1	43.5	6110	C363_43.5 S3 M3SA4	140	C363_43.5 P90 BN90LA4	141
33	416	1.9	43.1	10000	C512_43.1 S3 M3SA4	148	C512_43.1 P90 BN90LA4	149
35	382	2.6	40.5	10000	C513_40.5 S3 M3SA4	148	C513_40.5 P90 BN90LA4	149
35	390	2.0	40.4	10000	C512_40.4 S3 M3SA4	148	C512_40.4 P90 BN90LA4	149
35	381	1.6	40.3	7000	C413_40.3 S3 M3SA4	144	C413_40.3 P90 BN90LA4	145
37	361	1.2	38.1	6110	C363_38.1 S3 M3SA4	140	C363_38.1 P90 BN90LA4	141
38	358	1.4	37.1	7000	C412_37.1 S3 M3SA4	144	C412_37.1 P90 BN90LA4	145
38	348	1.7	36.8	7000	C413_36.8 S3 M3SA4	144	C413_36.8 P90 BN90LA4	145
39	351	2.2	36.4	10000	C512_36.4 S3 M3SA4	148	C512_36.4 P90 BN90LA4	149
39	350	0.9	36.1	5100	C322_36.1 S3 M3SA4	136	C322_36.1 P90 BN90LA4	137
41	328	1.4	34.6	5950	C363_34.6 S3 M3SA4	140	C363_34.6 P90 BN90LA4	141
42	322	1.6	33.4	7000	C412_33.4 S3 M3SA4	144	C412_33.4 P90 BN90LA4	145
43	319	2.5	33.0	10000	C512_33.0 S3 M3SA4	148	C512_33.0 P90 BN90LA4	149
43	321	0.9	33.1	5050	C322_33.1 S3 M3SA4	136	C322_33.1 P90 BN90LA4	137
45	303	1.6	31.4	6990	C412_31.4 S3 M3SA4	144	C412_31.4 P90 BN90LA4	145
45	295	1.9	31.2	7000	C413_31.2 S3 M3SA4	144	C413_31.2 P90 BN90LA4	145
47	287	2.8	29.8	10000	C512_29.8 S3 M3SA4	148	C512_29.8 P90 BN90LA4	149
47	288	1.0	29.8	4970	C322_29.8 S3 M3SA4	136	C322_29.8 P90 BN90LA4	137
49	272	1.7	28.7	5830	C363_28.7 S3 M3SA4	140	C363_28.7 P90 BN90LA4	141
50	273	1.8	28.3	6830	C412_28.3 S3 M3SA4	144	C412_28.3 P90 BN90LA4	145
52	261	1.2	26.9	4890	C322_26.9 S3 M3SA4	136	C322_26.9 P90 BN90LA4	137
54	250	3.2	25.9	10000	C512_25.9 S3 M3SA4	148	C512_25.9 P90 BN90LA4	149
54	249	1.8	26.2	5710	C363_26.2 S3 M3SA4	140	C363_26.2 P90 BN90LA4	141
56	242	2.1	25.0	6680	C412_25.0 S3 M3SA4	144	C412_25.0 P90 BN90LA4	145
56	243	1.2	25.1	4840	C322_25.1 S3 M3SA4	136	C322_25.1 P90 BN90LA4	137
62	222	1.3	22.9	4750	C322_22.9 S3 M3SA4	136	C322_22.9 P90 BN90LA4	137
63	218	2.3	22.6	6510	C412_22.6 S3 M3SA4	144	C412_22.6 P90 BN90LA4	145
64	210	2.0	22.1	5530	C363_22.1 S3 M3SA4	140	C363_22.1 P90 BN90LA4	141
66	208	0.9	21.5	2600	C222_21.5 S3 M3SA4	132	C222_21.5 P90 BN90LA4	133
70	195	1.5	20.1	4650	C322_20.1 S3 M3SA4	136	C322_20.1 P90 BN90LA4	137
70	194	1.0	20.0	2740	C222_20.0 S3 M3SA4	132	C222_20.0 P90 BN90LA4	133
71	191	2.5	19.8	6330	C412_19.8 S3 M3SA4	144	C412_19.8 P90 BN90LA4	145
74	184	2.1	19.0	5330	C362_19.0 S3 M3SA4	140	C362_19.0 P90 BN90LA4	141
78	176	1.6	18.2	4520	C322_18.2 S3 M3SA4	136	C322_18.2 P90 BN90LA4	137
78	176	1.0	18.1	2700	C222_18.1 S3 M3SA4	132	C222_18.1 P90 BN90LA4	133
79	172	2.8	17.8	6160	C412_17.8 S3 M3SA4	144	C412_17.8 P90 BN90LA4	145
82	167	2.3	17.2	5140	C362_17.2 S3 M3SA4	140	C362_17.2 P90 BN90LA4	141
89	153	2.9	15.8	6000	C412_15.8 S3 M3SA4	144	C412_15.8 P90 BN90LA4	145
89	153	1.1	15.8	2700	C222_15.8 S3 M3SA4	132	C222_15.8 P90 BN90LA4	133
90	151	1.8	15.6	4410	C322_15.6 S3 M3SA4	136	C322_15.6 P90 BN90LA4	137
96	143	2.7	14.8	5030	C362_14.8 S3 M3SA4	140	C362_14.8 P90 BN90LA4	141
97	141	1.2	14.5	2700	C222_14.5 S3 M3SA4	132	C222_14.5 P90 BN90LA4	133
99	137	3.2	14.2	5830	C412_14.2 S3 M3SA4	144	C412_14.2 P90 BN90LA4	145

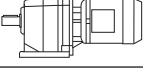


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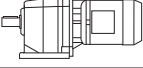
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
100	136	1.8	14.1	4280	C322_14.1 S3 M3SA4	136	C322_14.1 P90 BN90LA4	137
106	129	2.9	13.3	4890	C362_13.3 S3 M3SA4	140	C362_13.3 P90 BN90LA4	141
114	120	1.3	12.4	2630	C222_12.4 S3 M3SA4	132	C222_12.4 P90 BN90LA4	133
114	119	2.1	12.3	4180	C322_12.3 S3 M3SA4	136	C322_12.3 P90 BN90LA4	137
121	113	3.4	11.7	4740	C362_11.7 S3 M3SA4	140	C362_11.7 P90 BN90LA4	141
126	109	2.1	11.2	4050	C322_11.2 S3 M3SA4	136	C322_11.2 P90 BN90LA4	137
127	107	1.4	11.1	2600	C222_11.1 S3 M3SA4	132	C222_11.1 P90 BN90LA4	133
146	93	1.6	9.6	2530	C222_9.6 S3 M3SA4	132	C222_9.6 P90 BN90LA4	133
152	90	2.4	9.3	3900	C322_9.3 S3 M3SA4	136	C322_9.3 P90 BN90LA4	137
163	84	1.6	8.7	2470	C222_8.7 S3 M3SA4	132	C222_8.7 P90 BN90LA4	133
166	82	2.5	8.5	3790	C322_8.5 S3 M3SA4	136	C322_8.5 P90 BN90LA4	137
177	77	1.8	15.8	2440	C222_15.8 S2 M2SB2	132	C222_15.8 P90 BN90SA2	133
190	72	2.3	5.0	3610	C322_5.0 S3 M3LA6	136	C322_5.0 P100 BN100LA6	137
197	69	2.9	7.2	3640	C322_7.2 S3 M3SA4	136	C322_7.2 P90 BN90LA4	137
199	69	1.9	7.1	2380	C222_7.1 S3 M3SA4	132	C222_7.1 P90 BN90LA4	133
203	67	3.0	4.6	4050	C362_4.6 S3 M3LA6	140	C362_4.6 P100 BN100LA6	141
225	61	2.6	6.3	3450	C322_6.3 S3 M3SA4	136	C322_6.3 P90 BN90LA4	137
226	60	0.9	6.2	600	C122_6.2 S3 M3SA4	128	C122_6.2 P90 BN90LA4	129
232	59	1.8	6.1	2250	C222_6.1 S3 M3SA4	132	C222_6.1 P90 BN90LA4	133
235	58	0.9	11.9	1250	C122_11.9 S2 M2SB2	128	C122_11.9 P90 BN90SA2	129
249	55	2.8	5.7	3320	C322_5.7 S3 M3SA4	136	C322_5.7 P90 BN90LA4	137
252	54	0.9	5.6	720	C122_5.6 S3 M3SA4	128	C122_5.6 P90 BN90LA4	129
252	54	1.9	5.6	2200	C222_5.6 S3 M3SA4	132	C222_5.6 P90 BN90LA4	133
254	54	2.0	3.7	2210	C222_3.7 S3 M3LA6	132	C222_3.7 P100 BN100LA6	133
278	49	1.0	10.1	1340	C122_10.1 S2 M2SB2	128	C122_10.1 P90 BN90SA2	129
285	48	3.2	5.0	3240	C322_5.0 S3 M3SA4	136	C322_5.0 P90 BN90LA4	137
285	48	2.1	3.3	2120	C222_3.7 S3 M3LA6	132	C222_3.7 P100 BN100LA6	133
290	47	1.0	4.9	840	C122_4.9 S3 M3SA4	128	C122_4.9 P90 BN90LA4	129
296	46	2.2	4.8	2140	C222_4.8 S3 M3SA4	132	C222_4.8 P90 BN90LA4	133
318	43	1.1	8.8	1300	C122_8.8 S2 M2SB2	128	C122_8.8 P90 BN90SA2	129
322	42	2.6	8.7	2130	C222_8.7 S2 M2SB2	132	C222_8.7 P90 BN90SA2	133
327	42	1.1	4.3	930	C122_4.3 S3 M3SA4	128	C122_4.3 P90 BN90LA4	129
331	41	2.3	4.3	2100	C222_4.3 S3 M3SA4	132	C222_4.3 P90 BN90LA4	133
340	40	1.1	2.8	1000	C122_2.8 S3 M3LA6	128	C122_2.8 P100 BN100LA6	129
345	39	2.4	2.7	2060	C222_2.7 S3 M3LA6	132	C222_2.7 P100 BN100LA6	133
367	37	1.2	7.6	1270	C122_7.6 S2 M2SB2	128	C122_7.6 P90 BN90SA2	129
380	36	2.5	3.7	2020	C222_3.7 S3 M3SA4	132	C222_3.7 P90 BN90LA4	133
386	35	1.2	3.7	1100	C122_3.7 S3 M3SA4	128	C122_3.7 P90 BN90LA4	129
395	34	3.1	7.1	2030	C222_7.1 S2 M2SB2	132	C222_7.1 P90 BN90SA2	133
424	32	2.6	3.3	2000	C222_3.3 S3 M3SA4	132	C222_3.3 P90 BN90LA4	133
440	31	1.3	3.2	1120	C122_3.2 S3 M3SA4	128	C122_3.2 P90 BN90LA4	129
449	30	1.4	6.2	1180	C122_6.2 S2 M2SB2	128	C122_6.2 P90 BN90SA2	129
460	30	2.9	6.1	1920	C222_6.1 S2 M2SB2	132	C222_6.1 P90 BN90SA2	133
500	27	3.0	5.6	1860	C222_5.6 S2 M2SB2	132	C222_5.6 P90 BN90SA2	133
500	27	1.5	5.6	1140	C122_5.6 S2 M2SB2	128	C122_5.6 P90 BN90SA2	129
510	27	1.4	2.8	1140	C122_2.8 S3 M3SA4	128	C122_2.8 P90 BN90LA4	129
518	26	3.0	2.7	1870	C222_2.7 S3 M3SA4	132	C222_2.7 P90 BN90LA4	133
575	24	1.6	4.9	1110	C122_4.9 S2 M2SB2	128	C122_4.9 P90 BN90SA2	129
587	23	3.5	4.8	1810	C222_4.8 S2 M2SB2	132	C222_4.8 P90 BN90SA2	133
651	21	1.7	4.3	1070	C122_4.3 S2 M2SB2	128	C122_4.3 P90 BN90SA2	129
767	18	1.9	3.7	1030	C122_3.7 S2 M2SB2	128	C122_3.7 P90 BN90SA2	129

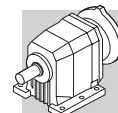


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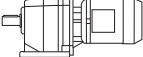
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
875	16	2.1	3.2	990	C122_3.2 S2 M2SB2	128	C122_3.2 P90 BN90SA2	129
1012	13	2.2	2.8	960	C122_2.8 S2 M2SB2	128	C122_2.8 P90 BN90SA2	129

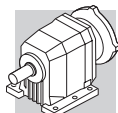
2.2 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
1.6	12315	1.0	908.2	85000	C1004_908.2 S3 M3LA4	165	C1004_908.2 P100 BN100LA4	166
2.0	9767	1.2	720.3	85000	C1004_720.3 S3 M3LA4	165	C1004_720.3 P100 BN100LA4	166
2.4	7900	1.5	582.6	85000	C1004_582.6 S3 M3LA4	165	C1004_582.6 P100 BN100LA4	166
2.6	7244	1.0	534.2	60000	C904_534.2 S3 M3LA4	162	C904_534.2 P100 BN100LA4	163
3.1	6198	1.2	457.1	60000	C904_457.1 S3 M3LA4	162	C904_457.1 P100 BN100LA4	163
3.7	5159	2.3	380.5	85000	C1004_380.5 S3 M3LA4	165	C1004_380.5 P100 BN100LA4	166
3.8	5014	1.4	369.8	60000	C904_369.8 S3 M3LA4	162	C904_369.8 P100 BN100LA4	163
4.8	3972	1.8	292.9	60000	C904_292.9 S3 M3LA4	162	C904_292.9 P100 BN100LA4	163
4.9	3874	1.0	285.7	35000	C804_285.7 S3 M3LA4	159	C804_285.7 P100 BN100LA4	160
5.4	3551	1.1	261.9	35000	C804_261.9 S3 M3LA4	159	C804_261.9 P100 BN100LA4	160
6.1	3142	2.3	231.7	60000	C904_231.7 S3 M3LA4	162	C904_231.7 P100 BN100LA4	163
6.5	2991	1.3	215.8	35000	C803_215.8 S3 M3LA4	159	C803_215.8 P100 BN100LA4	160
7.6	2555	1.6	184.4	35000	C803_184.4 S3 M3LA4	159	C803_184.4 P100 BN100LA4	160
7.9	2483	0.9	179.2	25000	C703_179.2 S3 M3LA4	156	C703_179.2 P100 BN100LA4	157
8.7	2256	1.0	162.8	25000	C703_162.8 S3 M3LA4	156	C703_162.8 P100 BN100LA4	157
10.3	1904	1.2	137.4	25000	C703_137.4 S3 M3LA4	156	C703_137.4 P100 BN100LA4	157
10.3	1894	2.1	136.7	35000	C803_136.7 S3 M3LA4	159	C803_136.7 P100 BN100LA4	160
11.0	1776	0.9	128.1	16000	C613_128.1 S3 M3LA4	152	C613_128.1 P100 BN100LA4	153
12.4	1574	1.0	113.6	16000	C613_113.6 S3 M3LA4	152	C613_113.6 P100 BN100LA4	153
12.5	1558	1.5	112.4	25000	C703_112.4 S3 M3LA4	156	C703_112.4 P100 BN100LA4	157
12.9	1517	2.6	109.5	35000	C803_109.5 S3 M3LA4	159	C803_109.5 P100 BN100LA4	160
13.6	1438	1.6	103.8	25000	C703_103.8 S3 M3LA4	156	C703_103.8 P100 BN100LA4	157
13.6	1436	1.1	103.6	16000	C613_103.6 S3 M3LA4	152	C613_103.6 P100 BN100LA4	153
14.5	1350	3.0	97.4	35000	C803_97.4 S3 M3LA4	159	C803_97.4 P100 BN100LA4	160
15.5	1261	1.3	91.0	16000	C613_91.0 S3 M3LA4	152	C613_91.0 P100 BN100LA4	153
15.8	1237	3.2	89.3	35000	C803_89.3 S3 M3LA4	159	C803_89.3 P100 BN100LA4	160
16.0	1222	1.9	88.2	25000	C703_88.2 S3 M3LA4	156	C703_88.2 P100 BN100LA4	157
17.0	1151	1.4	83.0	16000	C613_83.0 S3 M3LA4	152	C613_83.0 P100 BN100LA4	153
17.3	1128	2.0	81.4	25000	C703_81.4 S3 M3LA4	156	C703_81.4 P100 BN100LA4	157
17.7	1107	0.9	79.9	10000	C513_79.9 S3 M3LA4	148	C513_79.9 P100 BN100LA4	149
19.0	1028	1.6	74.2	16000	C613_74.2 S3 M3LA4	152	C613_74.2 P100 BN100LA4	153
19.3	1011	1.0	72.9	10000	C513_72.9 S3 M3LA4	148	C513_72.9 P100 BN100LA4	149
19.8	989	2.3	71.3	25000	C703_71.3 S3 M3LA4	156	C703_71.3 P100 BN100LA4	157
20.8	938	1.7	67.7	16000	C613_67.7 S3 M3LA4	152	C613_67.7 P100 BN100LA4	153
21.4	913	2.5	65.9	25000	C703_65.9 S3 M3LA4	156	C703_65.9 P100 BN100LA4	157
21.8	895	1.1	64.6	10000	C513_64.6 S3 M3LA4	148	C513_64.6 P100 BN100LA4	149
23.9	817	1.2	59.0	10000	C513_59.0 S3 M3LA4	148	C513_59.0 P100 BN100LA4	149
24.1	812	2.0	58.6	16000	C613_58.6 S3 M3LA4	152	C613_58.6 P100 BN100LA4	153
24.7	807	1.0	57.0	10000	C512_57.0 S3 M3LA4	148	C512_57.0 P100 BN100LA4	149
25.0	783	2.9	56.5	25000	C703_56.5 S3 M3LA4	156	C703_56.5 P100 BN100LA4	157
26.4	741	2.2	53.5	16000	C613_53.5 S3 M3LA4	152	C613_53.5 P100 BN100LA4	153
27.4	728	1.0	51.4	10000	C512_51.4 S3 M3LA4	148	C512_51.4 P100 BN100LA4	149

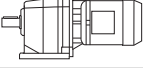


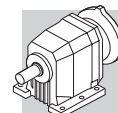
2.2 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
27.6	709	1.4	51.2	10000	C513_51.2 S3 M3LA4	148	C513_51.2 P100 BN100LA4	149
29.5	677	1.2	47.8	10000	C512_47.8 S3 M3LA4	148	C512_47.8 P100 BN100LA4	149
29.6	660	2.4	47.6	16000	C613_47.6 S3 M3LA4	152	C613_47.6 P100 BN100LA4	153
30	651	0.9	47.0	6440	C413_47.0 S3 M3LA4	144	C413_47.0 P100 BN100LA4	145
30	647	1.5	46.7	10000	C513_46.7 S3 M3LA4	148	C513_46.7 P100 BN100LA4	149
32	602	2.7	43.4	16000	C613_43.4 S3 M3LA4	152	C613_43.4 P100 BN100LA4	153
33	610	1.3	43.1	10000	C512_43.1 S3 M3LA4	148	C512_43.1 P100 BN100LA4	149
35	561	1.8	40.5	10000	C513_40.5 S3 M3LA4	148	C513_40.5 P100 BN100LA4	149
35	571	1.4	40.4	10000	C512_40.4 S3 M3LA4	148	C512_40.4 P100 BN100LA4	149
35	559	1.1	40.3	6460	C413_40.3 S3 M3LA4	144	C413_40.3 P100 BN100LA4	145
37	538	2.5	38.0	16000	C612_38.0 S3 M3LA4	152	C612_38.0 P100 BN100LA4	153
38	525	1.0	37.1	6370	C412_37.1 S3 M3LA4	144	C412_37.1 P100 BN100LA4	145
38	512	2.0	37.0	10000	C513_37.0 S3 M3LA4	148	C513_37.0 P100 BN100LA4	149
38	510	1.2	36.8	6390	C413_36.8 S3 M3LA4	144	C413_36.8 P100 BN100LA4	145
39	515	1.5	36.4	10000	C512_36.4 S3 M3LA4	148	C512_36.4 P100 BN100LA4	149
39	501	3.1	36.1	16000	C613_36.1 S3 M3LA4	152	C613_36.1 P100 BN100LA4	153
41	484	2.5	34.2	16000	C612_34.2 S3 M3LA4	152	C612_34.2 P100 BN100LA4	153
41	479	0.9	34.6	5350	C363_34.6 S3 M3LA4	140	C363_34.6 P100 BN100LA4	141
42	473	1.1	33.4	6290	C412_33.4 S3 M3LA4	144	C412_33.4 P100 BN100LA4	145
43	468	1.7	33.0	10000	C512_33.0 S3 M3LA4	148	C512_33.0 P100 BN100LA4	149
43	457	3.3	33.0	16000	C613_33.0 S3 M3LA4	152	C613_33.0 P100 BN100LA4	153
45	445	1.1	31.4	6290	C412_31.4 S3 M3LA4	144	C412_31.4 P100 BN100LA4	145
46	431	3.1	30.4	16000	C612_30.4 S3 M3LA4	152	C612_30.4 P100 BN100LA4	153
47	421	1.9	29.8	10000	C512_29.8 S3 M3LA4	148	C512_29.8 P100 BN100LA4	149
49	398	1.1	28.7	5220	C363_28.7 S3 M3LA4	140	C363_28.7 P100 BN100LA4	141
50	401	1.2	28.3	6190	C412_28.3 S3 M3LA4	144	C412_28.3 P100 BN100LA4	145
51	388	3.5	27.4	15900	C612_27.4 S3 M3LA4	152	C612_27.4 P100 BN100LA4	153
54	367	2.2	25.9	10000	C512_25.9 S3 M3LA4	148	C512_25.9 P100 BN100LA4	149
54	363	1.2	26.2	5140	C363_26.2 S3 M3LA4	140	C363_26.2 P100 BN100LA4	141
56	355	0.8	25.1	4270	C322_25.1 S3 M3LA4	136	C322_25.1 P100 BN100LA4	137
56	355	1.4	25.0	6120	C412_25.0 S3 M3LA4	144	C412_25.0 P100 BN100LA4	145
60	331	2.4	23.4	10000	C512_23.4 S3 M3LA4	148	C512_23.4 P100 BN100LA4	149
62	324	0.9	22.9	4240	C322_22.9 S3 M3LA4	136	C322_22.9 P100 BN100LA4	137
63	319	1.6	22.6	6000	C412_22.6 S3 M3LA4	144	C412_22.6 P100 BN100LA4	145
64	307	1.4	22.1	5060	C363_22.1 S3 M3LA4	140	C363_22.1 P100 BN100LA4	141
66	308	0.9	14.1	4170	C322_14.1 S3 M3LC6	136	C322_14.1 P112 BN112M6	137
67	297	2.7	21.0	10000	C512_21.0 S3 M3LA4	148	C512_21.0 P100 BN100LA4	149
70	284	1.0	20.1	4200	C322_20.1 S3 M3LA4	136	C322_20.1 P100 BN100LA4	137
71	280	1.7	19.8	5890	C412_19.8 S3 M3LA4	144	C412_19.8 P100 BN100LA4	145
74	269	1.4	19.0	4920	C362_19.0 S3 M3LA4	140	C362_19.0 P100 BN100LA4	141
75	267	3.0	18.9	10000	C512_18.9 S3 M3LA4	148	C512_18.9 P100 BN100LA4	149
76	269	1.1	12.3	4100	C322_12.3 S3 M3LC6	136	C322_12.3 P112 BN112M6	137
78	257	1.1	18.2	4120	C322_18.2 S3 M3LA4	136	C322_18.2 P100 BN100LA4	137
79	252	1.9	17.8	5760	C412_17.8 S3 M3LA4	144	C412_17.8 P100 BN100LA4	145
82	244	1.6	17.2	4800	C362_17.2 S3 M3LA4	140	C362_17.2 P100 BN100LA4	141
83	245	1.1	11.2	4060	C322_11.2 S3 M3LC6	136	C322_11.2 P112 BN112M6	137
85	235	3.4	16.6	10000	C512_16.6 S3 M3LA4	148	C512_16.6 P100 BN100LA4	149
89	224	2.0	15.8	5650	C412_15.8 S3 M3LA4	144	C412_15.8 P100 BN100LA4	145
90	221	1.2	15.6	4060	C322_15.6 S3 M3LA4	136	C322_15.6 P100 BN100LA4	137
96	209	1.8	14.8	4710	C362_14.8 S3 M3LA4	140	C362_14.8 P100 BN100LA4	141
99	202	2.2	14.2	5510	C412_14.2 S3 M3LA4	144	C412_14.2 P100 BN100LA4	145



2.2 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
100	203	1.3	9.3	3960	C322_9.3 S3 M3LC6	136	C322_9.3 P112 BN112M6	137
100	199	1.3	14.1	3980	C322_14.1 S3 M3LA4	136	C322_14.1 P100 BN100LA4	137
106	189	2.0	13.3	4590	C362_13.3 S3 M3LA4	140	C362_13.3 P100 BN100LA4	141
114	175	2.4	12.4	5360	C412_12.4 S3 M3LA4	144	C412_12.4 P100 BN100LA4	145
114	176	0.9	12.4	2270	C222_12.4 S3 M3LA4	132	C222_12.4 P100 BN100LA4	133
114	174	1.4	12.3	3900	C322_12.3 S3 M3LA4	136	C322_12.3 P100 BN100LA4	137
109	186	1.3	8.5	3890	C322_8.5 S3 M3LC6	136	C322_8.5 P112 BN112M6	137
121	165	2.3	11.7	4490	C362_11.7 S3 M3LA4	140	C362_11.7 P100BN100LA4	141
126	158	2.7	11.2	5220	C412_11.2 S3 M3LA4	144	C412_11.2 P100 BN100LA4	145
126	159	1.5	11.2	3800	C322_11.2 S3 M3LA4	136	C322_11.2 P100 BN100LA4	137
127	157	1.0	11.1	2250	C222_11.1 S3 M3LA4	132	C222_11.1 P100 BN100LA4	133
130	154	1.5	7.2	3810	C322_7.2 S3 M3LC6	136	C322_7.2 P112 BN112M6	137
131	152	1.0	7.1	2260	C222_7.1 S3 M3LC6	132	C222_7.1 P112 BN112M6	133
133	150	2.5	10.6	4320	C362_10.6 S3 M3LA4	140	C362_10.6 P100 BN100LA4	141
146	137	1.1	9.6	2250	C222_9.6 S3 M3LA4	132	C222_9.6 P100 BN100LA4	133
147	136	2.9	9.6	5050	C412_9.6 S3 M3LA4	144	C412_9.6 P100 BN100LA4	145
148	138	1.3	6.3	3510	C322_6.3 S3 M3LC6	136	C322_6.3 P112 BN112M6	137
152	132	1.7	9.3	3690	C322_9.3 S3 M3LA4	136	C322_9.3 P100 BN100LA4	137
160	125	3.1	8.8	4210	C362_8.8 S3 M3LA4	140	C362_8.8 P100 BN100LA4	141
163	123	1.1	8.7	2220	C222_8.7 S3 M3LA4	132	C222_8.7 P100 BN100LA4	133
163	125	1.4	5.7	3450	C322_5.7 S3 M3LC6	136	C322_5.7 P112 BN112M6	137
166	120	1.7	8.5	3600	C322_8.5 S3 M3LA4	136	C322_8.5 P100 BN100LA4	137
188	106	1.5	5.0	3410	C322_5.0 S3 M3LC6	136	C322_5.0 P112 BN112M6	137
197	101	2.0	7.2	3480	C322_7.2 S3 M3LA4	136	C322_7.2 P100 BN100LA4	137
199	100	1.3	7.1	2180	C222_7.1 S3 M3LA4	132	C222_7.1 P100 BN100LA4	133
225	89	1.7	6.3	3250	C322_6.3 S3 M3LA4	136	C322_6.3 P100 BN100LA4	137
232	86	1.2	6.1	2040	C222_6.1 S3 M3LA4	132	C222_6.1 P100 BN100LA4	133
241	83	2.4	5.8	3710	C362_5.8 S3 M3LA4	140	C362_5.8 P100 BN100LA4	141
249	80	1.9	5.7	3180	C322_5.7 S3 M3LA4	136	C322_5.7 P100 BN100LA4	137
252	79	1.3	5.6	2050	C222_5.6 S3 M3LA4	132	C222_5.6 P100 BN100LA4	133
267	75	2.7	5.3	3550	C362_5.3 S3 M3LA4	140	C362_5.3 P100 BN100LA4	141
285	70	2.2	5.0	3100	C322_5.0 S3 M3LA4	136	C322_5.0 P100 BN100LA4	137
296	68	1.5	4.8	1970	C222_4.8 S3 M3LA4	132	C222_4.8 P100 BN100LA4	133
302	66	2.7	9.3	3130	C322_9.3 S3 M3SA2	136	C322_9.3 P90 BN90L2	137
305	65	3.1	4.6	3490	C362_4.6 S3 M3LA4	140	C362_4.6 P100 BN100LA4	141
313	64	2.4	4.5	3000	C322_4.5 S3 M3LA4	136	C322_4.5 P100 BN100LA4	137
328	61	1.8	8.7	2000	C222_8.7 S3 M3SA2	132	C222_8.7 P90 BN90L2	133
331	60	1.6	4.3	1970	C222_4.3 S3 M3LA4	132	C222_4.3 P100 BN100LA4	133
335	60	2.8	8.5	3010	C322_8.5 S3 M3SA2	136	C322_8.5 P90 BN90L2	137
346	58	3.5	2.7	3380	C362_2.7 S3 M3LC6	140	C362_2.7 P112 BN112M6	141
369	54	0.8	7.6	930	C122_7.6 S3 M3SA2	128	C122_7.6 P90 BN90L2	129
377	53	2.8	3.7	2890	C322_3.7 S3 M3LA4	136	C322_3.7 P100 BN100LA4	137
380	52	1.7	3.7	1890	C222_3.7 S3 M3LA4	132	C222_3.7 P100 BN100LA4	133
392	51	3.1	7.2	2920	C322_7.2 S3 M3SA2	136	C322_7.2 P90 BN90L2	137
397	50	2.1	7.1	1920	C222_7.1 S3 M3SA2	132	C222_7.1 P90 BN90L2	133
414	48	2.9	3.4	2800	C322_3.4 S3 M3LA4	136	C322_3.4 P100 BN100LA4	137
424	47	1.8	3.3	1890	C222_3.3 S3 M3LA4	132	C222_3.3 P100 BN100LA4	133
440	45	0.9	3.2	580	C122_3.2 S3 M3LA4	128	C122_3.2 P100 BN100LA4	129
449	44	3.4	6.3	2760	C322_6.3 S3 M3SA2	136	C322_6.3 P90 BN90L2	137
462	43	2.0	6.1	1820	C222_6.1 S3 M3SA2	132	C222_6.1 P90 BN90L2	133
663	30	2.1	5.6	1770	C222_5.6 S3 M3SA2	132	C222_5.6 P90 BN90L2	133

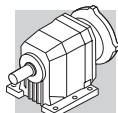


2.2 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
490	41	3.2	2.9	2700	C322_2.9 S3 M3LA4	136	C322_2.9 P100 BN100LA4	137
510	39	0.9	2.8	690	C122_2.8 S3 M3LA4	128	C122_2.8 P100 BN100LA4	129
518	39	2.1	2.7	1770	C222_2.7 S3 M3LA4	132	C222_2.7 P100 BN100LA4	133
589	34	2.4	4.8	1720	C222_4.8 S3 M3SA2	132	C222_4.8 P90 BN90L2	133
663	30	2.5	4.3	1670	C222_4.3 S3 M3SA2	132	C222_4.3 P90 BN90L2	133
758	26	2.7	3.7	1620	C222_3.7 S3 M3SA2	132	C222_3.7 P90 BN90L2	133
770	26	1.3	3.7	970	C122_3.7 S3 M3SA2	128	C122_3.7 P90 BN90L2	129
864	23	2.9	3.3	1550	C222_3.3 S3 M3SA2	132	C222_3.3 P90 BN90L2	133
891	22	1.4	3.2	940	C122_3.2 S3 M3SA2	128	C122_3.2 P90 BN90L2	129
1015	20	1.5	2.8	920	C122_2.8 S3 M3SA2	128	C122_2.8 P90 BN90L2	129
1032	19	3.4	2.7	1490	C222_2.7 S3 M3SA2	132	C222_2.7 P90 BN90L2	133

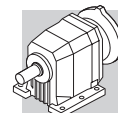
3 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
2.0	13319	0.9	720.3	85000	C1004_720.3 S3 M3LB4	165	C1004_720.3 P100 BN100LB4	166
2.4	10773	1.1	582.6	85000	C1004_582.6 S3 M3LB4	165	C1004_582.6 P100 BN100LB4	166
3.4	7747	0.9	419.0	60000	C904_419.0 S3 M3LB4	162	C904_419.0 P100 BN100LB4	163
3.4	7577	1.6	409.8	85000	C1004_409.8 S3 M3LB4	165	C1004_409.8 P100 BN100LB4	166
4.2	6268	1.1	339.0	60000	C904_339.0 S3 M3LB4	162	C904_339.0 P100 BN100LB4	163
4.4	5984	2.0	323.6	85000	C1004_323.6 S3 M3LB4	165	C1004_323.6 P100 BN100LB4	166
5.3	4965	1.5	268.5	60000	C904_268.5 S3 M3LB4	162	C904_268.5 P100 BN100LB4	163
5.4	4863	2.5	263.0	85000	C1004_263.0 S3 M3LB4	165	C1004_263.0 P100 BN100LB4	166
6.5	4079	1.0	215.8	35000	C803_215.8 S3 M3LB4	159	C803_215.8 P100 BN100LB4	160
6.6	3927	1.8	212.4	60000	C904_212.4 S3 M3LB4	162	C904_212.4 P100 BN100LB4	163
7.1	3739	1.0	197.9	35000	C803_197.9 S3 M3LB4	159	C803_197.9 P100 BN100LB4	160
8.2	3252	2.2	172.1	60000	C903_172.1 S3 M3LB4	162	C903_172.1 P100 BN100LB4	163
8.3	3193	1.3	169.0	35000	C803_169.0 S3 M3LB4	159	C803_169.0 P100 BN100LB4	160
9.5	2818	1.4	149.1	35000	C803_149.1 S3 M3LB4	159	C803_149.1 P100 BN100LB4	160
9.6	2765	2.6	146.3	60000	C903_146.3 S3 M3LB4	162	C903_146.3 P100 BN100LB4	163
10.5	2535	2.8	134.1	60000	C903_134.1 S3 M3LB4	162	C903_134.1 P100 BN100LB4	163
12.1	2206	3.3	116.7	60000	C903_116.7 S3 M3LB4	162	C903_116.7 P100 BN100LB4	163
12.5	2125	1.1	112.4	25000	C703_112.4 S3 M3LB4	156	C703_112.4 P100 BN100LB4	157
12.9	2069	1.9	109.5	35000	C803_109.5 S3 M3LB4	159	C803_109.5 P100 BN100LB4	160
13.6	1961	1.2	103.8	25000	C703_103.8 S3 M3LB4	156	C703_103.8 P100 BN100LB4	157
14.5	1840	2.2	97.4	35000	C803_97.4 S3 M3LB4	159	C803_97.4 P100 BN100LB4	160
15.5	1720	0.9	91.0	16000	C613_91.0 S3 M3LB4	152	C613_91.0 P100 BN100LB4	153
15.8	1687	2.4	89.3	35000	C803_89.3 S3 M3LB4	159	C803_89.3 P100 BN100LB4	160
16.0	1667	1.4	88.2	25000	C703_88.2 S3 M3LB4	156	C703_88.2 P100 BN100LB4	157
17.0	1569	1.0	83.0	16000	C613_83.0 S3 M3LB4	152	C613_83.0 P100 BN100LB4	153
17.3	1538	1.5	81.4	25000	C703_81.4 S3 M3LB4	156	C703_81.4 P100 BN100LB4	157
18.3	1453	2.8	76.9	35000	C803_76.9 S3 M3LB4	159	C803_76.9 P100 BN100LB4	160
19.0	1402	1.1	74.2	16000	C613_74.2 S3 M3LB4	152	C613_74.2 P100 BN100LB4	153
19.8	1348	1.7	71.3	25000	C703_71.3 S3 M3LB4	156	C703_71.3 P100 BN100LB4	157
20.0	1332	3.0	70.5	35000	C803_70.5 S3 M3LB4	159	C803_70.5 P100 BN100LB4	160
20.8	1279	1.3	67.7	16000	C613_67.7 S3 M3LB4	152	C613_67.7 P100 BN100LB4	153
24.1	1107	1.4	58.6	16000	C613_58.6 S3 M3LB4	152	C613_58.6 P100 BN100LB4	153
25.0	1068	2.2	56.5	25000	C703_56.5 S3 M3LB4	156	C703_56.5 P100 BN100LB4	157

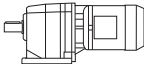


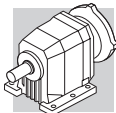
3 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
26.4	1010	1.6	53.5	16000	C613_53.5 S3 M3LB4	152	C613_53.5 P100 BN100LB4	153
27.6	967	1.0	51.2	10000	C513_51.2 S3 M3LB4	148	C513_51.2 P100 BN100LB4	149
29.6	900	1.8	47.6	16000	C613_47.6 S3 M3LB4	152	C613_47.6 P100 BN100LB4	153
30	883	1.1	46.7	10000	C513_46.7 S3 M3LB4	148	C513_46.7 P100 BN100LB4	149
32	845	2.7	44.7	25000	C703_44.7 S3 M3LB4	156	C703_44.7 P100 BN100LB4	157
32	821	1.9	43.4	16000	C613_43.4 S3 M3LB4	152	C613_43.4 P100 BN100LB4	153
33	832	0.9	43.1	10000	C512_43.1 S3 M3LB4	148	C512_43.1 P100 BN100LB4	149
34	780	2.9	41.3	25000	C703_41.3 S3 M3LB4	156	C703_41.3 P100 BN100LB4	157
35	765	1.3	40.5	10000	C513_40.5 S3 M3LB4	148	C513_40.5 P100 BN100LB4	149
35	779	1.0	40.4	10000	C512_40.4 S3 M3LB4	148	C512_40.4 P100 BN100LB4	149
37	734	1.8	38.0	16000	C612_38.0 S3 M3LB4	152	C612_38.0 P100 BN100LB4	153
38	698	1.4	37.0	10000	C513_37.0 S3 M3LB4	148	C513_37.0 P100 BN100LB4	149
39	702	1.1	36.4	10000	C512_36.4 S3 M3LB4	148	C512_36.4 P100 BN100LB4	149
39	683	2.3	36.1	16000	C613_36.1 S3 M3LB4	152	C613_36.1 P100 BN100LB4	153
41	661	1.9	34.2	16000	C612_34.2 S3 M3LB4	152	C612_34.2 P100 BN100LB4	153
43	638	1.2	33.0	10000	C512_33.0 S3 M3LB4	148	C512_33.0 P100 BN100LB4	149
43	623	2.4	33.0	16000	C613_33.0 S3 M3LB4	152	C613_33.0 P100 BN100LB4	153
45	590	1.0	31.2	5550	C413_31.2 S3 M3LB4	144	C413_31.2 P100 BN100LB4	145
46	588	2.3	30.4	15900	C612_30.4 S3 M3LB4	152	C612_30.4 P100 BN100LB4	153
47	575	1.4	29.8	10000	C512_29.8 S3 M3LB4	148	C512_29.8 P100 BN100LB4	149
50	546	0.9	28.3	5460	C412_28.3 S3 M3LB4	144	C412_28.3 P100 BN100LB4	145
51	519	1.9	27.4	10000	C513_27.4 S3 M3LB4	148	C513_27.4 P100 BN100LB4	149
51	529	2.6	27.4	15400	C612_27.4 S3 M3LB4	152	C612_27.4 P100 BN100LB4	153
54	500	1.6	25.9	10000	C512_25.9 S3 M3LB4	148	C512_25.9 P100 BN100LB4	149
54	487	0.9	26.2	4500	C363_26.2 S3 M3LB4	140	C363_26.2 P100 BN100LB4	141
56	483	1.0	25.0	5480	C412_25.0 S3 M3LB4	144	C412_25.0 P100 BN100LB4	145
57	479	2.8	24.8	15100	C612_24.8 S3 M3LB4	152	C612_24.8 P100 BN100LB4	153
59	451	2.0	23.9	10000	C513_23.9 S3 M3LB4	148	C513_23.9 P100 BN100LB4	149
60	451	1.8	23.4	10000	C512_23.4 S3 M3LB4	148	C512_23.4 P100 BN100LB4	149
63	435	1.1	22.6	5420	C412_22.6 S3 M3LB4	144	C412_22.6 P100 BN100LB4	145
63	431	3.1	22.4	14600	C612_22.4 S3 M3LB4	152	C612_22.4 P100 BN100LB4	153
64	412	1.0	22.1	4530	C363_22.1 S3 M3LB4	140	C363_22.1 P100 BN100LB4	141
65	412	2.2	21.8	10000	C513_21.8 S3 M3LB4	148	C513_21.8 P100 BN100LB4	149
67	405	2.0	21.0	10000	C512_21.0 S3 M3LB4	148	C512_21.0 P100 BN100LB4	149
71	381	1.3	19.8	5390	C412_19.8 S3 M3LB4	144	C412_19.8 P100 BN100LB4	145
74	361	1.1	19.0	4450	C362_19.0 S3 M3LB4	140	C362_19.0 P100 BN100LB4	141
75	365	2.2	18.9	10000	C512_18.9 S3 M3LB4	148	C512_18.9 P100 BN100LB4	149
79	343	1.4	17.8	5300	C412_17.8 S3 M3LB4	144	C412_17.8 P100 BN100LB4	145
82	327	1.2	17.2	4400	C362_17.2 S3 M3LB4	140	C362_17.2 P100 BN100LB4	141
85	320	2.5	16.6	9790	C512_16.6 S3 M3LB4	148	C512_16.6 P100 BN100LB4	149
89	305	1.5	15.8	5240	C412_15.8 S3 M3LB4	144	C412_15.8 P100 BN100LB4	145
90	296	0.9	15.6	3680	C322_15.6 S3 M3LB4	136	C322_15.6 P100 BN100LB4	137
94	289	2.8	15.0	9540	C512_15.0 S3 M3LB4	148	C512_15.0 P100 BN100LB4	149
96	280	1.4	14.8	4340	C362_14.8 S3 M3LB4	140	C362_14.8 P100 BN100LB4	141
99	275	1.6	14.2	5140	C412_14.2 S3 M3LB4	144	C412_14.2 P100 BN100LB4	145
100	267	0.9	14.1	3650	C322_14.1 S3 M3LB4	136	C322_14.1 P100 BN100LB4	137
106	253	1.5	13.3	4260	C362_13.3 S3 M3LB4	140	C362_13.3 P100 BN100LB4	141
107	253	3.0	13.1	9200	C512_13.1 S3 M3LB4	148	C512_13.1 P100 BN100LB4	149
114	239	1.8	12.4	5040	C412_12.4 S3 M3LB4	144	C412_12.4 P100 BN100LB4	145
114	234	1.0	12.3	3580	C322_12.3 S3 M3LB4	136	C322_12.3 P100 BN100LB4	137
119	228	3.4	11.8	8950	C512_11.8 S3 M3LB4	148	C512_11.8 P100 BN100LB4	149

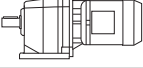


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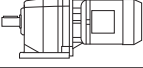
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121	222	1.7	11.7	4200	C362_11.7 S3 M3LB4	140	C362_11.7 P100 BN100LB4	141
126	215	1.9	11.2	4930	C412_11.2 S3 M3LB4	144	C412_11.2 P100 BN100LB4	145
126	213	1.1	11.2	3520	C322_11.2 S3 M3LB4	136	C322_11.2 P100 BN100LB4	137
133	201	1.9	10.6	4100	C362_10.6 S3 M3LB4	140	C362_10.6 P100 BN100LB4	141
142	191	1.2	20.1	3480	C322_20.1 S3 M3LA2	136	C322_20.1 P100 BN100L2	137
147	185	2.1	9.6	4800	C412_9.6 S3 M3LB4	144	C412_9.6 P100 BN100LB4	145
152	177	1.2	9.3	3450	C322_9.3 S3 M3LB4	136	C322_9.3 P100 BN100LB4	137
157	173	1.3	18.2	3410	C322_18.2 S3 M3LA2	136	C322_18.2 P100 BN100L2	137
160	167	2.3	8.8	3990	C362_8.8 S3 M3LB4	140	C362_8.8 P100 BN100LB4	141
166	161	1.3	8.5	3400	C322_8.5 S3 M3LB4	136	C322_8.5 P100 BN100LB4	137
176	153	2.4	8.0	3840	C362_8.0 S3 M3LB4	140	C362_8.0 P100 BN100LB4	141
181	151	0.9	15.8	1940	C222_15.8 S3 M3LA2	132	C222_15.8 P100 BN100L2	133
183	148	1.4	15.6	3340	C322_15.6 S3 M3LA2	136	C322_15.6 P100 BN100L2	137
197	136	1.5	7.2	3300	C322_7.2 S3 M3LB4	136	C322_7.2 P100 BN100LB4	137
199	135	1.0	7.1	1940	C222_7.1 S3 M3LB4	132	C222_7.1 P100 BN100LB4	133
200	136	2.6	7.1	4490	C412_7.1 S3 M3LB4	144	C412_7.1 P100 BN100LB4	145
203	134	1.5	14.1	3250	C322_14.1 S3 M3LA2	136	C322_14.1 P100 BN100L2	137
208	129	2.8	6.8	3780	C362_6.8 S3 M3LB4	140	C362_6.8 P100 BN100LB4	141
222	123	2.8	6.4	4370	C412_6.4 S3 M3LB4	144	C412_6.4 P100 BN100LB4	145
225	119	1.3	6.3	3100	C322_6.3 S3 M3LB4	136	C322_6.3 P100 BN100LB4	137
232	117	1.7	12.3	3190	C322_12.3 S3 M3LA2	136	C322_12.3 P100 BN100L2	137
232	116	0.9	6.1	1600	C222_6.1 S3 M3LB4	132	C222_6.1 P100 BN100LB4	133
237	115	2.3	6.0	4090	C412_6.0 S3 M3LB4	144	C412_6.0 P100 BN100LB4	145
241	111	1.8	5.8	3530	C362_5.8 S3 M3LB4	140	C362_5.8 P100 BN100LB4	141
249	107	1.4	5.7	3040	C322_5.7 S3 M3LB4	136	C322_5.7 P100 BN100LB4	137
252	106	1.0	5.6	1750	C222_5.6 S3 M3LB4	132	C222_5.6 P100 BN100LB4	133
258	105	1.1	11.1	1850	C222_11.1 S3 M3LA2	132	C222_11.1 P100 BN100L2	133
255	106	1.8	11.2	3090	C322_11.2 S3 M3LA2	136	C322_11.2 P100 BN100L2	137
267	100	2.0	5.3	3380	C362_5.3 S3 M3LB4	140	C362_5.3 P100 BN100LB4	141
285	94	1.6	5.0	2950	C322_5.0 S3 M3LB4	136	C322_5.0 P100 BN100LB4	137
296	91	1.1	4.8	1780	C222_4.8 S3 M3LB4	132	C222_4.8 P100 BN100LB4	133
298	91	1.3	9.6	1880	C222_9.6 S3 M3LA2	132	C222_9.6 P100 BN100L2	133
302	90	2.9	4.7	3880	C412_4.7 S3 M3LB4	144	C412_4.7 P100 BN100LB4	145
305	88	2.3	4.6	3270	C362_4.6 S3 M3LB4	140	C362_4.6 P100 BN100LB4	141
308	88	2.0	9.3	2990	C322_9.3 S3 M3LA2	136	C322_9.3 P100 BN100L2	137
313	85	1.8	4.5	2880	C322_4.5 S3 M3LB4	136	C322_4.5 P100 BN100LB4	137
329	83	1.3	8.7	1840	C222_8.7 S3 M3LA2	132	C222_8.7 P100 BN100L2	133
331	81	1.2	4.3	1800	C222_4.3 S3 M3LB4	132	C222_4.3 P100 BN100LB4	133
336	80	2.5	4.2	3190	C362_4.2 S3 M3LB4	140	C362_4.2 P100 BN100LB4	141
336	81	2.1	8.5	2900	C322_8.5 S3 M3LA2	136	C322_8.5 P100 BN100L2	137
377	71	2.1	3.7	2780	C322_3.7 S3 M3LB4	136	C322_3.7 P100 BN100LB4	137
380	70	1.3	3.7	1740	C222_3.7 S3 M3LB4	132	C222_3.7 P100 BN100LB4	133
399	68	2.3	7.2	2810	C322_7.2 S3 M3LA2	136	C322_7.2 P100 BN100L2	137
404	66	3.0	3.5	3130	C362_3.5 S3 M3LB4	140	C362_3.5 P100 BN100LB4	141
404	67	1.6	7.1	1800	C222_7.1 S3 M3LA2	132	C222_7.1 P100 BN100L2	133
414	65	2.1	3.4	2690	C322_3.4 S3 M3LB4	136	C322_3.4 P100 BN100LB4	137
424	63	1.3	3.3	1740	C222_3.3 S3 M3LB4	132	C222_3.3 P100 BN100LB4	133
457	60	2.5	6.3	2650	C322_6.3 S3 M3LA2	136	C322_6.3 P100 BN100L2	137
470	58	1.5	6.1	1690	C222_6.1 S3 M3LA2	132	C222_6.1 P100 BN100L2	133
490	55	2.4	2.9	2610	C322_2.9 S3 M3LB4	136	C322_2.9 P100 BN100LB4	137
502	54	2.6	5.7	2570	C322_5.7 S3 M3LA2	136	C322_5.7 P100 BN100L2	137

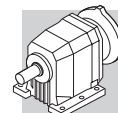


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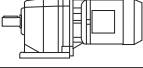
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511	53	1.5	5.6	1650	C222_5.6 S3 M3LA2	132	C222_5.6 P100 BN100L2	133
518	52	1.5	2.7	1660	C222_2.7 S3 M3LB4	132	C222_2.7 P100 BN100LB4	133
578	47	2.9	5.0	2500	C322_5.0 S3 M3LA2	136	C322_5.0 P100 BN100L2	137
636	54	2.4	4.5	2400	C322_4.5 S3 M3LA2	136	C322_4.5 P100 BN100L2	137
600	45	1.8	4.8	1620	C222_4.8 S3 M3LA2	132	C222_4.8 P100 BN100L2	133
665	41	1.8	4.3	1580	C222_4.3 S3 M3LA2	132	C222_4.3 P100 BN100L2	133
766	36	3.4	3.7	2320	C322_3.7 S3 M3LA2	136	C322_3.7 P100 BN100L2	137
771	35	2.0	3.7	1540	C222_3.7 S3 M3LA2	132	C222_3.7 P100 BN100L2	133
783	35	1.0	3.7	560	C122_3.7 S3 M3LA2	128	C122_3.7 P100 BN100L2	129
867	83	2.2	3.3	1480	C222_3.3 S3 M3LA2	132	C222_3.3 P100 BN100L2	133
894	30	1.1	3.2	630	C122_3.2 S3 M3LA2	128	C122_3.2 P100 BN100L2	129
1033	26	1.1	2.8	750	C122_2.8 S3 M3LA2	128	C122_2.8 P100 BN100L2	129
1051	26	2.5	2.7	1430	C222_2.7 S3 M3LA2	132	C222_2.7 P100 BN100L2	133

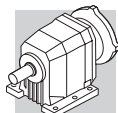
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n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
2.8	12569	1.0	502.6	85000	C1004_502.6 S3 M3LC4	165	C1004_502.6 P112 BN112M4	166
3.4	10249	1.2	409.8	85000	C1004_409.8 S3 M3LC4	165	C1004_409.8 P112 BN112M4	166
4.3	8093	1.5	323.6	85000	C1004_323.6 S3 M3LC4	165	C1004_323.6 P112 BN112M4	166
4.7	7325	1.0	292.9	60000	C904_292.9 S3 M3LC4	162	C904_292.9 P112 BN112M4	163
5.2	6715	1.1	268.5	60000	C904_268.5 S3 M3LC4	162	C904_268.5 P112 BN112M4	163
5.7	6107	2.0	244.2	85000	C1004_244.2 S3 M3LC4	165	C1004_244.2 P112 BN112M4	166
6.0	5795	1.2	231.7	60000	C904_231.7 S3 M3LC4	162	C904_231.7 P112 BN112M4	163
7.5	4637	2.6	185.4	85000	C1004_185.4 S3 M3LC4	165	C1004_185.4 P112 BN112M4	166
8.1	4399	1.6	172.1	60000	C903_172.1 S3 M3LC4	162	C903_172.1 P112 BN112M4	163
8.2	4319	0.9	169.0	35000	C803_169.0 S3 M3LC4	159	C803_169.0 P112 BN112M4	160
10.2	3493	1.1	136.7	35000	C803_136.7 S3 M3LC4	159	C803_136.7 P112 BN112M4	160
10.4	3428	2.1	134.1	60000	C903_134.1 S3 M3LC4	162	C903_134.1 P112 BN112M4	163
11.9	2983	2.4	116.7	60000	C903_116.7 S3 M3LC4	162	C903_116.7 P112 BN112M4	163
12.7	2799	1.4	109.5	35000	C803_109.5 S3 M3LC4	159	C803_109.5 P112 BN112M4	160
14.3	2489	1.6	97.4	35000	C803_97.4 S3 M3LC4	159	C803_97.4 P112 BN112M4	160
14.4	2460	2.9	96.2	60000	C903_96.2 S3 M3LC4	162	C903_96.2 P112 BN112M4	163
15.6	2282	1.8	89.3	35000	C803_89.3 S3 M3LC4	159	C803_89.3 P112 BN112M4	160
15.8	2254	1.0	88.2	25000	C703_88.2 S3 M3LC4	156	C703_88.2 P112 BN112M4	157
17.1	2081	1.1	81.4	25000	C703_81.4 S3 M3LC4	156	C703_81.4 P112 BN112M4	157
19.5	1823	1.3	71.3	25000	C703_71.3 S3 M3LC4	156	C703_71.3 P112 BN112M4	157
19.7	1802	2.2	70.5	35000	C803_70.5 S3 M3LC4	159	C803_70.5 P112 BN112M4	160
20.5	1730	0.9	67.7	16000	C613_67.7 S3 M3LC4	152	C613_67.7 P112 BN112M4	153
23.7	1498	1.1	58.6	16000	C613_58.6 S3 M3LC4	152	C613_58.6 P112 BN112M4	153
24.3	1464	2.7	57.3	35000	C803_57.3 S3 M3LC4	159	C803_57.3 P112 BN112M4	160
24.6	1444	1.6	56.5	25000	C703_56.5 S3 M3LC4	156	C703_56.5 P112 BN112M4	157
26.0	1366	1.2	53.5	16000	C613_53.5 S3 M3LC4	152	C613_53.5 P112 BN112M4	153
26.6	1333	1.7	52.2	25000	C703_52.2 S3 M3LC4	156	C703_52.2 P112 BN112M4	157
29.2	1217	1.3	47.6	16000	C613_47.6 S3 M3LC4	152	C613_47.6 P112 BN112M4	153
29.3	1213	3.1	47.4	35000	C803_47.4 S3 M3LC4	159	C803_47.4 P112 BN112M4	160
31	1142	2.0	44.7	25000	C703_44.7 S3 M3LC4	156	C703_44.7 P112 BN112M4	157
32	1112	3.4	43.5	35000	C803_43.5 S3 M3LC4	159	C803_43.5 P112 BN112M4	160

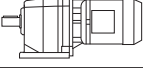


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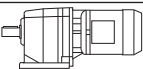
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
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34	1055	2.2	41.3	25000	C703_41.3 S3 M3LC4	156	C703_41.3 P112 BN112M4	157
34	1035	1.0	40.5	10000	C513_40.5 S3 M3LC4	148	C513_40.5 P112 BN112M4	149
37	992	1.4	38.0	16000	C612_38.0 S3 M3LC4	152	C612_38.0 P112 BN112M4	153
38	945	1.1	37.0	10000	C513_37.0 S3 M3LC4	148	C513_37.0 P112 BN112M4	149
40	907	2.3	34.7	23400	C702_34.7 S3 M3LC4	156	C702_34.7 P112 BN112M4	157
41	893	1.4	34.2	15700	C612_34.2 S3 M3LC4	152	C612_34.2 P112 BN112M4	153
42	862	0.9	33.0	10000	C512_33.0 S3 M3LC4	148	C512_33.0 P112 BN112M4	149
46	795	1.7	30.4	15300	C612_30.4 S3 M3LC4	152	C612_30.4 P112 BN112M4	153
47	777	1.0	29.8	10000	C512_29.8 S3 M3LC4	148	C512_29.8 P112 BN112M4	149
50	724	2.9	27.7	22300	C702_27.7 S3 M3LC4	156	C702_27.7 P112 BN112M4	157
51	716	1.9	27.4	14900	C612_27.4 S3 M3LC4	152	C612_27.4 P112 BN112M4	153
54	676	1.2	25.9	10000	C512_25.9 S3 M3LC4	148	C512_25.9 P112 BN112M4	149
56	648	2.1	24.8	14600	C612_24.8 S3 M3LC4	152	C612_24.8 P112 BN112M4	153
60	610	1.3	23.4	10000	C512_23.4 S3 M3LC4	148	C512_23.4 P112 BN112M4	149
62	584	2.3	22.4	14200	C612_22.4 S3 M3LC4	152	C612_22.4 P112 BN112M4	153
66	547	1.5	21.0	9920	C512_21.0 S3 M3LC4	148	C512_21.0 P112 BN112M4	149
70	516	0.9	19.8	4760	C412_19.8 S3 M3LC4	144	C412_19.8 P112 BN112M4	145
71	512	2.6	19.6	13800	C612_19.6 S3 M3LC4	152	C612_19.6 P112 BN112M4	153
74	493	1.6	18.9	9730	C512_18.9 S3 M3LC4	148	C512_18.9 P112 BN112M4	149
78	465	1.0	17.8	4720	C412_17.8 S3 M3LC4	144	C412_17.8 P112 BN112M4	145
79	461	2.9	17.7	13400	C612_17.7 S3 M3LC4	152	C612_17.7 P112 BN112M4	153
84	433	1.8	16.6	9440	C512_16.6 S3 M3LC4	148	C512_16.6 P112 BN112M4	149
87	416	3.2	15.9	13100	C612_15.9 S3 M3LC4	152	C612_15.9 P112 BN112M4	153
88	413	1.1	15.8	4740	C412_15.8 S3 M3LC4	144	C412_15.8 P112 BN112M4	145
93	391	2.0	15.0	9230	C512_15.0 S3 M3LC4	148	C512_15.0 P112 BN112M4	149
95	378	1.0	14.8	3880	C362_14.8 S3 M3LC4	140	C362_14.8 P112 BN112M4	141
98	372	1.2	14.2	4690	C412_14.2 S3 M3LC4	144	C412_14.2 P112 BN112M4	145
105	342	1.1	13.3	3840	C362_13.3 S3 M3LC4	140	C362_13.3 P112 BN112M4	141
106	343	2.2	13.1	8930	C512_13.1 S3 M3LC4	148	C512_13.1 P112 BN112M4	149
112	324	1.3	12.4	4660	C412_12.4 S3 M3LC4	144	C412_12.4 P112 BN112M4	145
117	309	2.5	11.8	8720	C512_11.8 S3 M3LC4	148	C512_11.8 P112 BN112M4	149
120	299	1.3	11.7	3840	C362_11.7 S3 M3LC4	140	C362_11.7 P112 BN112M4	141
125	291	1.4	11.2	4580	C412_11.2 S3 M3LC4	144	C412_11.2 P112 BN112M4	145
132	272	1.4	10.6	3780	C362_10.6 S3 M3LC4	140	C362_10.6 P112 BN112M4	141
143	255	2.7	9.8	8290	C512_9.8 S3 M3LC4	148	C512_9.8 P112 BN112M4	149
145	251	1.6	9.6	4510	C412_9.6 S3 M3LC4	144	C412_9.6 P112 BN112M4	145
151	238	0.9	9.3	3150	C322_9.3 S3 M3LC4	136	C322_9.3 P112 BN112M4	137
158	229	3.0	8.8	8070	C512_8.8 S3 M3LC4	148	C512_8.8 P112 BN112M4	149
159	226	1.7	8.8	3720	C362_8.8 S3 M3LC4	140	C362_8.8 P112 BN112M4	141
161	226	1.7	8.6	4420	C412_8.6 S3 M3LC4	144	C412_8.6 P112 BN112M4	145
165	218	1.0	8.5	3110	C322_8.5 S3 M3LC4	136	C322_8.5 P112 BN112M4	137
174	206	1.8	8.0	3650	C362_8.0 S3 M3LC4	140	C362_8.0 P112 BN112M4	141
179	202	3.2	7.8	7800	C512_7.8 S3 M3LC4	148	C512_7.8 P112 BN112M4	149
184	197	1.1	15.6	3090	C322_15.6 S3 M3LB2	136	C322_15.6 P112 BN112M2	137
195	184	1.1	7.2	3070	C322_7.2 S3 M3LC4	136	C322_7.2 P112 BN112M4	137
197	184	1.9	7.1	4280	C412_7.1 S3 M3LC4	144	C412_7.1 P112 BN112M4	145
199	182	3.5	7.0	7580	C512_7.0 S3 M3LC4	148	C512_7.0 P112 BN112M4	149
204	178	1.2	14.1	3040	C322_14.1 S3 M3LB2	136	C322_14.1 P112 BN112M2	137
206	174	2.0	6.8	3580	C362_6.8 S3 M3LC4	140	C362_6.8 P112 BN112M4	141
218	166	2.1	6.4	4180	C412_6.4 S3 M3LC4	144	C412_6.4 P112 BN112M4	145

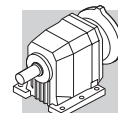


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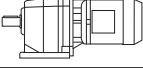
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
223	161	1.0	6.3	2840	C322_6.3 S3 M3LC4	136	C322_6.3 P112 BN112M4	137
233	156	1.3	12.3	2990	C322_12.3 S3 M3LB2	136	C322_12.3 P112 BN112M2	137
234	155	1.7	6.0	3840	C412_6.0 S3 M3LC4	144	C412_6.0 P112 BN112M4	145
239	150	1.3	5.8	3310	C362_5.8 S3 M3LC4	140	C362_5.8 P112 BN112M4	141
248	145	1.1	5.7	2780	C322_5.7 S3 M3LC4	136	C322_5.7 P112 BN112M4	137
256	142	1.3	11.2	2900	C322_11.2 S3 M3LB2	136	C322_11.2 P112 BN112M2	137
265	135	1.5	5.3	3200	C362_5.3 S3 M3LC4	140	C362_5.3 P112 BN112M4	141
283	127	1.2	5.0	2760	C322_5.0 S3 M3LC4	136	C322_5.0 P112 BN112M4	137
298	122	0.9	9.6	1680	C222_9.6 S3 M3LB2	132	C222_9.6 P112 BN112M2	133
303	119	1.7	4.6	3180	C362_4.6 S3 M3LC4	140	C362_4.6 P112 BN112M4	141
309	118	1.5	9.3	2840	C322_9.3 S3 M3LB2	136	C322_9.3 P112 BN112M2	137
311	115	1.3	4.5	2690	C322_4.5 S3 M3LC4	136	C322_4.5 P112 BN112M4	137
330	110	1.0	8.7	1660	C222_8.7 S3 M3LB2	132	C222_8.7 P112 BN112M2	133
333	108	1.9	4.2	3060	C362_4.2 S3 M3LC4	140	C362_4.2 P112 BN112M4	141
336	109	0.9	4.3	1300	C222_4.3 S3 M3LC4	132	C222_4.3 P112 BN112M4	133
338	107	1.6	8.5	2750	C322_8.5 S3 M3LB2	136	C322_8.5 P112 BN112M2	137
375	96	1.6	3.7	2640	C322_3.7 S3 M3LC4	136	C322_3.7 P112 BN112M4	137
378	95	0.9	3.7	1560	C222_3.7 S3 M3LC4	132	C222_3.7 P112 BN112M4	133
401	91	1.8	7.2	2690	C322_7.2 S3 M3LB2	136	C322_7.2 P112 BN112M2	137
402	89	2.2	3.5	3010	C362_3.5 S3 M3LC4	140	C362_3.5 P112 BN112M4	141
405	90	1.2	7.1	1650	C222_7.1 S3 M3LB2	132	C222_7.1 P112 BN112M2	133
411	87	1.6	3.4	2580	C322_3.4 S3 M3LC4	136	C322_3.4 P112 BN112M4	137
421	85	1.0	3.3	1540	C222_3.3 S3 M3LC4	132	C222_3.3 P112 BN112M4	133
440	82	2.5	3.2	2890	C362_3.2 S3 M3LC4	140	C362_3.2 P112 BN112M4	141
458	79	1.9	6.3	2530	C322_6.3 S3 M3LB2	136	C322_6.3 P112 BN112M2	137
471	77	1.1	6.1	1540	C222_6.1 S3 M3LB2	132	C222_6.1 P112 BN112M2	133
486	74	1.8	2.9	2500	C322_2.9 S3 M3LC4	136	C322_2.9 P112 BN112M4	137
513	54	1.5	5.6	1520	C222_5.6 S3 M3LB2	132	C222_5.6 P112 BN112M2	133
514	70	1.1	2.7	1530	C222_2.7 S3 M3LC4	132	C222_2.7 P112 BN112M4	133
521	69	2.9	2.7	2840	C362_2.7 S3 M3LC4	140	C362_2.7 P112 BN112M4	141
580	63	2.2	5.0	2410	C322_5.0 S3 M3LB2	136	C322_5.0 P112 BN112M2	137
602	60	1.3	4.8	1500	C222_4.8 S3 M3LB2	132	C222_4.8 P112 BN112M2	133
638	56	2.3	4.5	2330	C322_4.5 S3 M3LB2	136	C322_4.5 P112 BN112M2	137
667	54	1.4	4.3	1470	C222_4.3 S3 M3LB2	132	C222_4.3 P112 BN112M2	133
768	47	2.5	3.7	2250	C322_3.7 S3 M3LB2	136	C322_3.7 P112 BN112M2	137
774	47	1.5	3.7	1450	C222_3.7 S3 M3LB2	132	C222_3.7 P112 BN112M2	133
844	43	2.7	3.4	2170	C322_3.4 S3 M3LB2	136	C322_3.4 P112 BN112M2	137
870	42	1.6	3.3	1410	C222_3.3 S3 M3LB2	132	C222_3.3 P112 BN112M2	133
997	36	2.9	2.9	2100	C322_2.9 S3 M3LB2	136	C322_2.9 P112 BN112M2	137
1054	34	1.9	2.7	1370	C222_2.7 S3 M3LB2	132	C222_2.7 P112 BN112M2	133

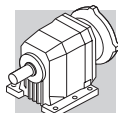
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n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
3.8	12630	1.0	380.5	85000	C1004_380.5 S4 M4SA4	165	C1004_380.5 P132 BN132S4	166
4.4	10741	1.1	323.6	85000	C1004_323.6 S4 M4SA4	165	C1004_323.6 P132 BN132S4	166
4.8	9974	1.2	300.5	85000	C1004_300.5 S4 M4SA4	165	C1004_300.5 P132 BN132S4	166
5.5	8730	1.4	263.0	85000	C1004_263.0 S4 M4SA4	165	C1004_263.0 P132 BN132S4	166

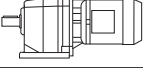


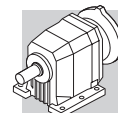
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n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
5.9	8106	1.5	244.2	85000	C1004_244.2 S4 M4SA4	165	C1004_244.2 P132 BN132S4	166
6.2	7691	0.9	231.7	60000	C904_231.7 S4 M4SA4	162	C904_231.7 P132 BN132S4	163
6.8	7050	1.0	212.4	60000	C904_212.4 S4 M4SA4	162	C904_212.4 P132 BN132S4	163
7.2	6625	1.8	199.6	85000	C1004_199.6 S4 M4SA4	165	C1004_199.6 P132 BN132S4	166
8.4	5838	1.2	172.1	60000	C903_172.1 S4 M4SA4	162	C903_172.1 P132 BN132S4	163
9.6	5103	2.4	150.4	85000	C1003_150.4 S4 M4SA4	165	C1003_150.4 P132 BN132S4	166
9.8	4964	1.5	146.3	60000	C903_146.3 S4 M4SA4	162	C903_146.3 P132 BN132S4	163
12.1	4052	1.0	119.5	35000	C803_119.5 S4 M4SA4	159	C803_119.5 P132 BN132S4	160
12.3	3960	1.8	116.7	60000	C903_116.7 S4 M4SA4	162	C903_116.7 P132 BN132S4	163
14.8	3304	1.2	97.4	35000	C803_97.4 S4 M4SA4	159	C803_97.4 P132 BN132S4	160
15.0	3265	2.2	96.2	60000	C903_96.2 S4 M4SA4	162	C903_96.2 P132 BN132S4	163
17.7	2755	2.6	81.2	59100	C903_81.2 S4 M4SA4	162	C903_81.2 P132 BN132S4	163
18.7	2609	1.5	76.9	35000	C803_76.9 S4 M4SA4	159	C803_76.9 P132 BN132S4	160
20.2	2420	1.0	71.3	25000	C703_71.3 S4 M4SA4	156	C703_71.3 P132 BN132S4	157
20.4	2392	1.7	70.5	35000	C803_70.5 S4 M4SA4	159	C803_70.5 P132 BN132S4	160
21.9	2234	1.0	65.9	25000	C703_65.9 S4 M4SA4	156	C703_65.9 P132 BN132S4	157
25.1	1944	2.1	57.3	35000	C803_57.3 S4 M4SA4	159	C803_57.3 P132 BN132S4	160
25.5	1917	1.2	56.5	25000	C703_56.5 S4 M4SA4	156	C703_56.5 P132 BN132S4	157
27.6	1770	1.3	52.2	24700	C703_52.2 S4 M4SA4	156	C703_52.2 P132 BN132S4	157
30	1616	1.0	47.6	15300	C613_47.6 S4 M4SA4	152	C613_47.6 P132 BN132S4	153
30	1609	2.4	47.4	35000	C803_47.4 S4 M4SA4	159	C803_47.4 P132 BN132S4	160
32	1516	1.5	44.7	24100	C703_44.7 S4 M4SA4	156	C703_44.7 P132 BN132S4	157
33	1475	2.6	43.5	35000	C803_43.5 S4 M4SA4	159	C803_43.5 P132 BN132S4	160
33	1474	1.1	43.4	15000	C613_43.4 S4 M4SA4	152	C613_43.4 P132 BN132S4	153
35	1400	1.6	41.3	23800	C703_41.3 S4 M4SA4	156	C703_41.3 P132 BN132S4	157
37	1355	2.4	39.1	35000	C802_39.1 S4 M4SA4	159	C802_39.1 P132 BN132S4	160
38	1317	1.0	38.0	14800	C612_38.0 S4 M4SA4	152	C612_38.0 P132 BN132S4	153
41	1204	1.7	34.7	22100	C702_34.7 S4 M4SA4	156	C702_34.7 P132 BN132S4	157
42	1186	1.0	34.2	14500	C612_34.2 S4 M4SA4	152	C612_34.2 P132 BN132S4	153
46	1086	3.4	31.3	33400	C802_31.3 S4 M4SA4	159	C802_31.3 P132 BN132S4	160
47	1055	1.3	30.4	14300	C612_30.4 S4 M4SA4	152	C612_30.4 P132 BN132S4	153
48	1020	1.0	30.1	9610	C513_30.1 S4 M4SA4	148	C513_30.1 P132 BN132S4	149
52	961	2.2	27.7	21200	C702_27.7 S4 M4SA4	156	C702_27.7 P132 BN132S4	157
52	931	1.0	27.4	9490	C513_27.4 S4 M4SA4	148	C513_27.4 P132 BN132S4	149
53	950	1.4	27.4	13900	C612_27.4 S4 M4SA4	152	C612_27.4 P132 BN132S4	153
58	860	1.6	24.8	13700	C612_24.8 S4 M4SA4	152	C612_24.8 P132 BN132S4	153
62	809	1.0	23.4	9310	C512_23.4 S4 M4SA4	148	C512_23.4 P132 BN132S4	149
63	792	2.7	22.9	20400	C702_22.9 S4 M4SA4	156	C702_22.9 P132 BN132S4	157
64	775	1.7	22.4	13400	C612_22.4 S4 M4SA4	152	C612_22.4 P132 BN132S4	153
69	726	1.1	21.0	9150	C512_21.0 S4 M4SA4	148	C512_21.0 P132 BN132S4	149
73	679	2.0	19.6	13100	C612_19.6 S4 M4SA4	152	C612_19.6 P132 BN132S4	153
75	668	3.1	19.3	19700	C702_19.3 S4 M4SA4	156	C702_19.3 P132 BN132S4	157
76	655	1.2	18.9	9030	C512_18.9 S4 M4SA4	148	C512_18.9 P132 BN132S4	149
82	612	2.2	17.7	12700	C612_17.7 S4 M4SA4	152	C612_17.7 P132 BN132S4	153
87	575	1.4	16.6	8810	C512_16.6 S4 M4SA4	148	C512_16.6 P132 BN132S4	149
90	552	2.4	15.9	12500	C612_15.9 S4 M4SA4	152	C612_15.9 P132 BN132S4	153
96	519	1.5	15.0	8660	C512_15.0 S4 M4SA4	148	C512_15.0 P132 BN132S4	149
100	497	2.7	14.3	12100	C612_14.3 S4 M4SA4	152	C612_14.3 P132 BN132S4	153
101	494	0.9	14.2	4000	C412_14.2 S4 M4SA4	144	C412_14.2 P132 BN132S4	145
110	455	1.6	13.1	8420	C512_13.1 S4 M4SA4	148	C512_13.1 P132 BN132S4	149
116	429	1.0	12.4	4060	C412_12.4 S4 M4SA4	144	C412_12.4 P132 BN132S4	145

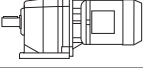


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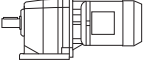
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
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122	410	1.9	11.8	8250	C512_11.8 S4 M4SA4	148	C512_11.8 P132 BN132S4	149
123	399	1.0	11.7	3380	C362_11.7 S4 M4SA4	140	C362_11.7 P132 BN132S4	141
129	387	1.1	11.2	4030	C412_11.2 S4 M4SA4	144	C412_11.2 P132 BN132S4	145
136	363	1.0	10.6	3350	C362_10.6 S4 M4SA4	140	C362_10.6 P132 BN132S4	141
148	338	2.0	9.8	7890	C512_9.8 S4 M4SA4	148	C512_9.8 P132 BN132S4	149
150	333	1.2	9.6	4030	C412_9.6 S4 M4SA4	144	C412_9.6 P132 BN132S4	145
164	305	2.2	8.8	7700	C512_8.8 S4 M4SA4	148	C512_8.8 P132 BN132S4	149
164	301	1.3	8.8	3350	C362_8.8 S4 M4SA4	140	C362_8.8 P132 BN132S4	141
167	299	1.3	8.6	3980	C412_8.6 S4 M4SA4	144	C412_8.6 P132 BN132S4	145
179	275	1.3	8.0	3330	C362_8.0 S4 M4SA4	140	C362_8.0 P132 BN132S4	141
186	269	2.4	7.8	7460	C512_7.8 S4 M4SA4	148	C512_7.8 P132 BN132S4	149
204	245	1.4	7.1	3920	C412_7.1 S4 M4SA4	144	C412_7.1 P132 BN132S4	145
206	242	2.6	7.0	7280	C512_7.0 S4 M4SA4	148	C512_7.0 P132 BN132S4	149
212	232	1.5	6.8	3280	C362_6.8 S4 M4SA4	140	C362_6.8 P132 BN132S4	141
226	221	1.6	6.4	3840	C412_6.4 S4 M4SA4	144	C412_6.4 P132 BN132S4	145
240	208	3.2	6.0	9480	C612_6.0 S4 M4SA4	152	C612_6.0 P132 BN132S4	153
242	206	1.3	6.0	3430	C412_6.0 S4 M4SA4	144	C412_6.0 P132 BN132S4	145
246	200	1.0	5.8	3020	C362_5.8 S4 M4SA4	140	C362_5.8 P132 BN132S4	141
256	195	2.2	5.6	6720	C512_5.6 S4 M4SA4	148	C512_5.6 P132 BN132S4	149
259	193	1.7	11.2	3770	C412_11.2 S4 M4SA2	144	C412_11.2 P132 BN132SA2	145
262	191	1.3	3.6	3410	C412_3.6 S4 M4LB6	144	C412_3.6 P132 BN132MB6	145
273	181	1.1	5.3	2930	C362_5.3 S4 M4SA4	140	C362_5.3 P132 BN132S4	141
286	175	2.4	3.3	6530	C512_3.3 S4 M4LB6	148	C512_3.3 P132 BN132MB6	149
291	169	0.9	5.0	2480	C322_5.0 S4 M4SA4	136	C322_5.0 P132 BN132S4	137
301	166	1.9	9.6	3680	C412_9.6 S4 M4SA2	144	C412_9.6 P132 BN132SA2	145
309	162	1.6	4.7	3360	C412_4.7 S4 M4SA4	144	C412_4.7 P132 BN132S4	145
312	158	1.3	4.6	2860	C362_4.6 S4 M4SA4	140	C362_4.6 P132 BN132S4	141
320	154	1.0	4.5	2500	C322_4.5 S4 M4SA4	136	C322_4.5 P132 BN132S4	137
323	154	2.8	4.5	6330	C512_4.5 S4 M4SA4	148	C512_4.5 P132 BN132S4	149
334	149	2.0	8.6	3600	C412_8.6 S4 M4SA2	144	C412_8.6 P132 BN132SA2	145
343	144	1.4	4.2	2830	C362_4.2 S4 M4SA4	140	C362_4.2 P132 BN132S4	141
355	140	1.7	2.7	3300	C412_2.7 S4 M4LB6	144	C412_2.7 P132 BN132MB6	145
359	139	2.9	2.6	6150	C512_2.6 S4 M4LB6	148	C512_2.6 P132 BN132MB6	149
361	138	2.1	8.0	2850	C362_8.0 S4 M4SA2	140	C362_8.0 P132 BN132SA2	141
386	128	1.2	3.7	2410	C322_3.7 S4 M4SA4	136	C322_3.7 P132 BN132S4	137
399	125	2.0	3.6	3240	C412_3.6 S4 M4SA4	144	C412_3.6 P132 BN132S4	145
409	122	2.3	7.1	3460	C412_7.1 S4 M4SA2	144	C412_7.1 P132 BN132SA2	145
413	119	1.7	3.5	2750	C362_3.5 S4 M4SA4	140	C362_3.5 P132 BN132S4	141
422	117	1.2	3.4	2370	C322_3.4 S4 M4SA4	136	C322_3.4 P132 BN132S4	137
425	118	2.4	6.8	2750	C362_6.8 S4 M4SA2	140	C362_6.8 P132 BN132SA2	141
453	109	1.8	3.2	2700	C362_3.2 S4 M4SA4	140	C362_3.2 P132 BN132S4	141
454	110	2.5	6.4	3370	C412_6.4 S4 M4SA2	144	C412_6.4 P132 BN132SA2	145
485	103	2.5	6.0	3140	C412_6.0 S4 M4SA2	144	C412_6.0 P132 BN132SA2	145
498	100	2.0	5.8	2620	C362_5.8 S4 M4SA2	140	C362_5.8 P132 BN132SA2	141
500	98	1.3	2.9	2310	C322_2.9 S4 M4SA4	136	C322_2.9 P132 BN132S4	137
536	92	2.2	2.7	2620	C362_2.7 S4 M4SA4	140	C362_2.7 P132 BN132S4	141
542	92	2.7	2.7	3070	C412_2.7 S4 M4SA4	144	C412_2.7 P132 BN132S4	145
545	92	2.2	5.3	2550	C362_5.3 S4 M4SA2	140	C362_5.3 P132 BN132SA2	141
578	86	1.6	5.0	2230	C322_5.0 S4 M4SA2	136	C322_5.0 P132 BN132SA2	137
620	81	3.2	4.7	2990	C412_4.7 S4 M4SA2	144	C412_4.7 P132 BN132SA2	145

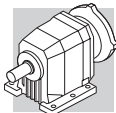


5.5 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
642	78	1.7	4.5	2190	C322_4.5 S4 M4SA2	136	C322_4.5 P132 BN132SA2	137
781	64	1.9	3.7	2120	C322_3.7 S4 M4SA2	136	C322_3.7 P132 BN132SA2	137
850	59	2.0	3.4	2080	C322_3.4 S4 M4SA2	136	C322_3.4 P132 BN132SA2	137
1004	50	2.1	2.9	2000	C322_2.9 S4 M4SA2	136	C322_2.9 P132 BN132SA2	137

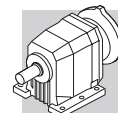
7.5 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
5.5	11904	1.0	263.0	85000	C1004_263.0 S4 M4LA4	165	C1004_263.0 P132 BN132MA4	166
7.2	9034	1.3	199.6	85000	C1004_199.6 S4 M4LA4	165	C1004_199.6 P132 BN132MA4	166
8.4	7961	0.9	172.1	60000	C903_172.1 S4 M4LA4	162	C903_172.1 P132 BN132MA4	163
9.6	6958	1.7	150.4	85000	C1003_150.4 S4 M4LA4	165	C1003_150.4 P132 BN132MA4	166
9.8	6769	1.1	146.3	59600	C903_146.3 S4 M4LA4	162	C903_146.3 P132 BN132MA4	163
12.3	5400	1.3	116.7	58600	C903_116.7 S4 M4LA4	162	C903_116.7 P132 BN132MA4	163
12.9	5176	2.3	111.9	85000	C1003_111.9 S4 M4LA4	165	C1003_111.9 P132 BN132MA4	166
16.1	4129	1.0	89.3	35000	C803_89.3 S4 M4LA4	159	C803_89.3 P132 BN132MA4	160
16.3	4081	1.7	88.2	56600	C903_88.2 S4 M4LA4	162	C903_88.2 P132 BN132MA4	163
16.8	3958	3.0	85.6	85000	C1003_85.6 S4 M4LA4	165	C1003_85.6 P132 BN132MA4	166
19.3	3444	2.1	74.4	55200	C903_74.4 S4 M4LA4	162	C903_74.4 P132 BN132MA4	163
20.4	3261	1.2	70.5	35000	C803_70.5 S4 M4LA4	159	C803_70.5 P132 BN132MA4	160
23.0	2891	1.4	62.5	35000	C803_62.5 S4 M4LA4	159	C803_62.5 P132 BN132MA4	160
24.3	2738	2.6	59.2	53000	C903_59.2 S4 M4LA4	162	C903_59.2 P132 BN132MA4	163
27.6	2413	1.0	52.2	22900	C703_52.2 S4 M4LA4	156	C703_52.2 P132 BN132MA4	157
30	2195	1.7	47.4	35000	C803_47.4 S4 M4LA4	159	C803_47.4 P132 BN132MA4	160
32	2068	1.1	44.7	22500	C703_44.7 S4 M4LA4	156	C703_44.7 P132 BN132MA4	157
35	1909	1.2	41.3	22300	C703_41.3 S4 M4LA4	156	C703_41.3 P132 BN132MA4	157
37	1848	1.7	39.1	33600	C802_39.1 S4 M4LA4	159	C802_39.1 P132 BN132MA4	160
40	1672	0.9	36.1	13300	C613_36.1 S4 M4LA4	152	C613_36.1 P132 BN132MA4	153
41	1642	1.3	34.7	20500	C702_34.7 S4 M4LA4	156	C702_34.7 P132 BN132MA4	157
44	1525	1.0	33.0	13100	C613_33.0 S4 M4LA4	152	C613_33.0 P132 BN132MA4	153
46	1481	2.5	31.3	32200	C802_31.3 S4 M4LA4	159	C802_31.3 P132 BN132MA4	160
47	1439	0.9	30.4	13000	C612_30.4 S4 M4LA4	152	C612_30.4 P132 BN132MA4	153
49	1358	1.1	29.4	13100	C613_29.4 S4 M4LA4	152	C613_29.4 P132 BN132MA4	153
52	1310	1.6	27.7	20000	C702_27.7 S4 M4LA4	156	C702_27.7 P132 BN132MA4	157
53	1296	1.0	27.4	12800	C612_27.4 S4 M4LA4	152	C612_27.4 P132 BN132MA4	153
55	1226	3.0	25.9	31000	C802_25.9 S4 M4LA4	159	C802_25.9 P132 BN132MA4	160
58	1173	1.2	24.8	12700	C612_24.8 S4 M4LA4	152	C612_24.8 P132 BN132MA4	153
60	1132	3.1	24.0	30500	C802_24.0 S4 M4LA4	159	C802_24.0 P132 BN132MA4	160
63	1080	1.9	22.9	19400	C702_22.9 S4 M4LA4	156	C702_22.9 P132 BN132MA4	157
64	1056	1.3	22.4	12500	C612_22.4 S4 M4LA4	152	C612_22.4 P132 BN132MA4	153
65	1051	3.5	22.2	30000	C802_22.2 S4 M4LA4	159	C802_22.2 P132 BN132MA4	160
73	926	1.5	19.6	12300	C612_19.6 S4 M4LA4	152	C612_19.6 P132 BN132MA4	153
75	911	2.3	19.3	18900	C702_19.3 S4 M4LA4	156	C702_19.3 P132 BN132MA4	157
82	834	1.6	17.7	12000	C612_17.7 S4 M4LA4	152	C612_17.7 P132 BN132MA4	153
86	789	2.6	16.7	18200	C702_16.7 S4 M4LA4	156	C702_16.7 P132 BN132MA4	157
87	784	1.0	16.6	8070	C512_16.6 S4 M4LA4	148	C512_16.6 P132 BN132MA4	149
90	753	1.8	15.9	11800	C612_15.9 S4 M4LA4	152	C612_15.9 P132 BN132MA4	153
96	707	1.1	15.0	8000	C512_15.0 S4 M4LA4	148	C512_15.0 P132 BN132MA4	149

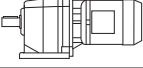


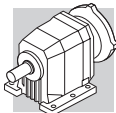
7.5 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
100	678	2.0	14.3	11500	C612_14.3 S4 M4LA4	152	C612_14.3 P132 BN132MA4	153
110	620	1.2	13.1	7840	C512_13.1 S4 M4LA4	148	C512_13.1 P132 BN132MA4	149
111	616	3.4	13.0	17500	C702_13.0 S4 M4LA4	156	C702_13.0 P132 BN132MA4	157
119	571	2.4	12.1	11100	C612_12.1 S4 M4LA4	152	C612_12.1 P132 BN132MA4	153
122	559	1.4	11.8	7730	C512_11.8 S4 M4LA4	148	C512_11.8 P132 BN132MA4	149
132	515	2.6	10.9	10900	C612_10.9 S4 M4LA4	152	C612_10.9 P132 BN132MA4	153
147	464	2.9	9.8	10600	C612_9.8 S4 M4LA4	152	C612_9.8 P132 BN132MA4	153
148	461	1.5	9.8	7450	C512_9.8 S4 M4LA4	148	C512_9.8 P132 BN132MA4	149
163	418	3.2	8.8	10300	C612_8.8 S4 M4LA4	152	C612_8.8 P132 BN132MA4	153
164	415	1.6	8.8	7320	C512_8.8 S4 M4LA4	148	C512_8.8 P132 BN132MA4	149
164	418	0.9	8.8	2880	C362_8.8 S4 M4LA4	140	C362_8.8 P132 BN132MA4	141
167	408	0.9	8.6	3430	C412_8.6 S4 M4LA4	144	C412_8.6 P132 BN132MA4	145
179	381	1.0	8.0	2900	C362_8.0 S4 M4LA4	140	C362_8.0 P132 BN132MA4	141
186	366	1.7	7.8	7120	C512_7.8 S4 M4LA4	148	C512_7.8 P132 BN132MA4	149
204	334	1.1	7.1	3470	C412_7.1 S4 M4LA4	144	C412_7.1 P132 BN132MA4	145
206	330	1.9	7.0	6970	C512_7.0 S4 M4LA4	148	C512_7.0 P132 BN132MA4	149
212	322	1.1	6.8	2900	C362_6.8 S4 M4LA4	140	C362_6.8 P132 BN132MA4	141
226	301	1.1	6.4	3440	C412_6.4 S4 M4LA4	144	C412_6.4 P132 BN132MA4	145
240	284	2.3	6.0	9180	C612_6.0 S4 M4LA4	152	C612_6.0 P132 BN132MA4	153
242	281	0.9	6.0	2920	C412_6.0 S4 M4LA4	144	C412_6.0 P132 BN132MA4	145
256	266	1.6	5.6	6410	C512_5.6 S4 M4LA4	148	C512_5.6 P132 BN132MA4	149
309	220	1.2	4.7	2960	C412_4.7 S4 M4LA4	144	C412_4.7 P132 BN132MA4	145
312	220	0.9	4.6	2600	C362_4.6 S4 M4LA4	140	C362_4.6 P132 BN132MA4	141
316	215	3.1	4.6	8550	C612_4.6 S4 M4LA4	152	C612_4.6 P132 BN132MA4	153
323	210	2.1	4.5	6090	C512_4.5 S4 M4LA4	148	C512_4.5 P132 BN132MA4	149
339	201	3.3	2.8	8390	C612_2.8 S5 M5SA6	152	C612_2.8 P160 BN160M6	153
343	199	1.0	4.2	2550	C362_4.2 S4 M4LA4	140	C362_4.2 P132 BN132MA4	141
363	187	2.1	2.6	5920	C512_2.6 S5 M5SA6	148	C512_2.6 P160 BN160M6	149
399	171	1.5	3.6	2930	C412_3.6 S4 M4LA4	144	C412_3.6 P132 BN132MA4	145
410	166	1.7	7.1	3240	C412_7.1 S4 M4SB2	144	C412_7.1 P132 BN132SB2	145
413	166	1.2	3.5	2500	C362_3.5 S4 M4LA4	140	C362_3.5 P132 BN132MA4	141
435	156	2.7	3.3	5660	C512_3.3 S4 M4LA4	148	C512_3.3 P132 BN132MA4	149
453	151	1.3	3.2	2500	C362_3.2 S4 M4LA4	140	C362_3.2 P132 BN132MA4	141
456	149	1.8	6.4	3170	C412_6.4 S4 M4SB2	144	C412_6.4 P132 BN132SB2	145
487	140	1.9	6.0	2880	C412_6.0 S4 M4SB2	144	C412_6.0 P132 BN132SB2	145
500	137	1.0	2.9	2100	C322_2.9 S4 M4LA4	136	C322_2.9 P132 BN132MA4	137
515	132	3.1	5.6	5420	C512_5.6 S4 M4SB2	148	C512_5.6 P132 BN132SB2	149
536	128	1.6	2.7	2440	C362_2.7 S4 M4LA4	140	C362_2.7 P132 BN132MA4	141
542	126	1.9	2.7	2840	C412_2.7 S4 M4LA4	144	C412_2.7 P132 BN132MA4	145
547	126	1.6	5.3	2370	C362_5.3 S4 M4SB2	140	C362_5.3 P132 BN132SB2	141
548	124	3.2	2.6	5330	C512_2.6 S4 M4LA4	148	C512_2.6 P132 BN132MA4	149
622	109	2.4	4.7	2790	C412_4.7 S4 M4SB2	144	C412_4.7 P132 BN132SB2	145
630	109	1.8	4.6	2330	C362_4.6 S4 M4SB2	140	C362_4.6 P132 BN132SB2	141
690	100	2.0	4.2	2290	C362_4.2 S4 M4SB2	140	C362_4.2 P132 BN132SB2	141
803	85	3.0	3.6	2670	C412_3.6 S4 M4SB2	144	C412_3.6 P132 BN132SB2	145
829	83	2.4	3.5	2210	C362_3.5 S4 M4SB2	140	C362_3.5 P132 BN132SB2	141
906	76	2.6	3.2	2170	C362_3.2 S4 M4SB2	140	C362_3.2 P132 BN132SB2	141
1074	64	3.1	2.7	2100	C362_2.7 S4 M4SB2	140	C362_2.7 P132 BN132SB2	141

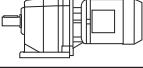


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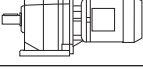
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
7.2	11082	1.1	199.6	85000	C1004_199.6 S4 M4LB4	165	C1004_199.6 P132 BN132MB4	166
7.8	10294	1.2	185.4	85000	C1004_185.4 S4 M4LB4	165	C1004_185.4 P132 BN132MB4	166
9.6	8536	1.4	150.4	85000	C1003_150.4 S4 M4LB4	165	C1003_150.4 P132 BN132MB4	166
10.7	7611	0.9	134.1	54900	C903_134.1 S4 M4LB4	162	C903_134.1 P132 BN132MB4	163
13.5	6072	1.2	107.0	54600	C903_107.0 S4 M4LB4	162	C903_107.0 P132 BN132MB4	163
15.0	5461	1.3	96.2	54200	C903_96.2 S4 M4LB4	162	C903_96.2 P132 BN132MB4	163
15.5	5259	2.3	92.7	85000	C1003_92.7 S4 M4LB4	165	C1003_92.7 P132 BN132MB4	166
17.7	4608	1.6	81.2	53300	C903_81.2 S4 M4LB4	162	C903_81.2 P132 BN132MB4	163
19.3	4224	1.7	74.4	52700	C903_74.4 S4 M4LB4	162	C903_74.4 P132 BN132MB4	163
20.4	4001	1.0	70.5	35000	C803_70.5 S4 M4LB4	159	C803_70.5 P132 BN132MB4	160
24.3	3359	2.1	59.2	51100	C903_59.2 S4 M4LB4	162	C903_59.2 P132 BN132MB4	163
25.1	3251	1.2	57.3	35000	C803_57.3 S4 M4LB4	159	C803_57.3 P132 BN132MB4	160
28.6	2854	2.5	50.3	49700	C903_50.3 S4 M4LB4	162	C903_50.3 P132 BN132MB4	163
30	2692	1.4	47.4	34900	C803_47.4 S4 M4LB4	159	C803_47.4 P132 BN132MB4	160
32	2536	0.9	44.7	21100	C703_44.7 S4 M4LB4	156	C703_44.7 P132 BN132MB4	157
33	2468	1.5	43.5	34400	C803_43.5 S4 M4LB4	159	C803_43.5 P132 BN132MB4	160
35	2341	1.0	41.3	21000	C703_41.3 S4 M4LB4	156	C703_41.3 P132 BN132MB4	157
37	2267	1.4	39.1	32300	C802_39.1 S4 M4LB4	159	C802_39.1 P132 BN132MB4	160
41	2034	2.7	35.1	46200	C902_35.1 S4 M4LB4	162	C902_35.1 P132 BN132MB4	163
41	2014	1.0	34.7	19200	C702_34.7 S4 M4LB4	156	C702_34.7 P132 BN132MB4	157
46	1816	2.0	31.3	31100	C802_31.3 S4 M4LB4	159	C802_31.3 P132 BN132MB4	160
49	1706	3.5	29.4	44600	C902_29.4 S4 M4LB4	162	C902_29.4 P132 BN132MB4	163
52	1607	1.3	27.7	18900	C702_27.7 S4 M4LB4	156	C702_27.7 P132 BN132MB4	157
58	1439	0.9	24.8	11800	C612_24.8 S4 M4LB4	152	C612_24.8 P132 BN132MB4	153
63	1325	1.6	22.9	18500	C702_22.9 S4 M4LB4	156	C702_22.9 P132 BN132MB4	157
64	1296	1.0	22.4	11700	C612_22.4 S4 M4LB4	152	C612_22.4 P132 BN132MB4	153
65	1289	2.9	22.2	29200	C802_22.2 S4 M4LB4	159	C802_22.2 P132 BN132MB4	160
73	1136	1.2	19.6	11600	C612_19.6 S4 M4LB4	152	C612_19.6 P132 BN132MB4	153
75	1118	1.9	19.3	18100	C702_19.3 S4 M4LB4	156	C702_19.3 P132 BN132MB4	157
82	1023	1.3	17.7	11400	C612_17.7 S4 M4LB4	152	C612_17.7 P132 BN132MB4	153
86	968	2.1	16.7	17500	C702_16.7 S4 M4LB4	156	C702_16.7 P132 BN132MB4	157
90	923	1.5	15.9	11200	C612_15.9 S4 M4LB4	152	C612_15.9 P132 BN132MB4	153
94	889	2.4	15.3	17500	C702_15.3 S4 M4LB4	156	C702_15.3 P132 BN132MB4	157
96	867	0.9	15.0	7430	C512_15.0 S4 M4LB4	148	C512_15.0 P132 BN132MB4	149
100	832	1.6	14.3	11000	C612_14.3 S4 M4LB4	152	C612_14.3 P132 BN132MB4	153
102	817	2.6	14.1	17000	C702_14.1 S4 M4LB4	156	C702_14.1 P132 BN132MB4	157
110	761	1.0	13.1	7340	C512_13.1 S4 M4LB4	148	C512_13.1 P132 BN132MB4	149
111	755	2.8	13.0	17000	C702_13.0 S4 M4LB4	156	C702_13.0 P132 BN132MB4	157
119	701	1.9	12.1	10700	C612_12.1 S4 M4LB4	152	C612_12.1 P132 BN132MB4	153
122	686	1.1	11.8	7280	C512_11.8 S4 M4LB4	148	C512_11.8 P132 BN132MB4	149
127	658	3.2	22.9	16500	C702_22.9 S4 M4LA2	156	C702_22.9 P132 BN132M2	157
132	631	2.1	10.9	10500	C612_10.9 S4 M4LB4	152	C612_10.9 P132 BN132MB4	153
147	569	2.4	9.8	10300	C612_9.8 S4 M4LB4	152	C612_9.8 P132 BN132MB4	153
148	565	1.2	9.8	7080	C512_9.8 S4 M4LB4	148	C512_9.8 P132 BN132MB4	149
163	513	2.6	8.8	10000	C612_8.8 S4 M4LB4	152	C612_8.8 P132 BN132MB4	153
164	510	1.3	8.8	6990	C512_8.8 S4 M4LB4	148	C512_8.8 P132 BN132MB4	149
186	449	1.4	7.8	6820	C512_7.8 S4 M4LB4	148	C512_7.8 P132 BN132MB4	149
192	434	3.1	7.5	9670	C612_7.5 S4 M4LB4	152	C612_7.5 P132 BN132MB4	153
206	405	1.6	7.0	6710	C512_7.0 S4 M4LB4	148	C512_7.0 P132 BN132MB4	149
212	393	0.9	6.8	2600	C362_6.8 S4 M4LB4	140	C362_6.8 P132 BN132MB4	141
214	391	3.5	6.7	9410	C612_6.7 S4 M4LB4	152	C612_6.7 P132 BN132MB4	153

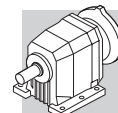


9.2 kW

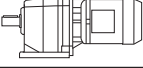
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC	
226	369	0.9	6.4	3100	C412_6.4 S4 M4LB4	144	C412_6.4 P132 BN132MB4	145
240	348	1.9	6.0	8930	C612_6.0 S4 M4LB4	152	C612_6.0 P132 BN132MB4	153
256	326	1.3	5.6	6150	C512_5.6 S4 M4LB4	148	C512_5.6 P132 BN132MB4	149
260	321	1.0	11.2	3110	C412_11.2 S4 M4LA2	144	C412_11.2 P132 BN132M2	145
309	270	1.0	4.7	2620	C412_4.7 S4 M4LB4	144	C412_4.7 P132 BN132MB4	145
316	264	2.5	4.6	8360	C612_4.6 S4 M4LB4	152	C612_4.6 P132 BN132MB4	153
323	258	1.7	4.5	5880	C512_4.5 S4 M4LB4	148	C512_4.5 P132 BN132MB4	149
336	249	1.2	8.6	3090	C412_8.6 S4 M4LA2	144	C412_8.6 P132 BN132M2	145
374	223	2.3	7.8	5870	C512_7.8 S4 M4LA2	148	C512_7.8 P132 BN132M2	149
399	209	1.2	3.6	2670	C412_3.6 S4 M4LB4	144	C412_3.6 P132 BN132MB4	145
410	203	1.4	7.1	3050	C412_7.1 S4 M4LA2	144	C412_7.1 P132 BN132M2	145
413	202	1.0	3.5	2300	C362_3.5 S4 M4LB4	140	C362_3.5 P132 BN132MB4	141
415	201	2.5	7.0	5730	C512_7.0 S4 M4LA2	148	C512_7.0 P132 BN132M2	149
435	192	2.2	3.3	5510	C512_3.3 S4 M4LB4	148	C512_3.3 P132 BN132MB4	149
453	184	1.1	3.2	2300	C362_3.2 S4 M4LB4	140	C362_3.2 P132 BN132MB4	141
456	183	1.5	6.4	3000	C412_6.4 S4 M4LA2	144	C412_6.4 P132 BN132M2	145
487	171	1.5	6.0	2660	C412_6.0 S4 M4LA2	144	C412_6.0 P132 BN132M2	145
515	162	2.6	5.6	5290	C512_5.6 S4 M4LA2	148	C512_5.6 P132 BN132M2	149
536	156	1.3	2.7	2280	C362_2.7 S4 M4LB4	140	C362_2.7 P132 BN132MB4	141
542	154	1.6	2.7	2650	C412_2.7 S4 M4LB4	144	C412_2.7 P132 BN132MB4	145
548	152	2.6	2.6	5210	C512_2.6 S4 M4LB4	148	C512_2.6 P132 BN132MB4	149
622	134	1.9	4.7	2620	C412_4.7 S4 M4LA2	144	C412_4.7 P132 BN132M2	145
651	128	3.4	4.5	4980	C512_4.5 S4 M4LA2	148	C512_4.5 P132 BN132M2	149
698	120	1.7	4.2	2180	C362_4.2 S4 M4LA2	140	C362_4.2 P132 BN132M2	141
803	104	2.5	3.6	2540	C412_3.6 S4 M4LA2	144	C412_3.6 P132 BN132M2	145
837	100	2.0	3.5	2120	C362_3.5 S4 M4LA2	140	C362_3.5 P132 BN132M2	141
916	91	2.2	3.2	2090	C362_3.2 S4 M4LA2	140	C362_3.2 P132 BN132M2	141
1091	77	3.2	2.7	2410	C412_2.7 S4 M4LA2	144	C412_2.7 P132 BN132M2	145
1091	77	2.6	2.7	2020	C362_2.7 S4 M4LA2	140	C362_2.7 P132 BN132M2	141

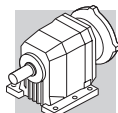
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n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC	
7.2	13251	0.9	199.6	85000	C1004_199.6 S4 M4LC4	165	C1004_199.6 P160 BN160MR4	166
9.6	10206	1.2	150.4	85000	C1003_150.4 S4 M4LC4	165	C1003_150.4 P160 BN160MR4	166
12.3	7920	0.9	116.7	50800	C903_116.7 S4 M4LC4	162	C903_116.7 P160 BN160MR4	163
12.9	7592	1.6	111.9	85000	C1003_111.9 S4 M4LC4	165	C1003_111.9 P160 BN160MR4	166
15.5	6287	1.9	92.7	85000	C1003_92.7 S4 M4LC4	165	C1003_92.7 P160 BN160MR4	166
16.3	5985	1.2	88.2	50700	C903_88.2 S4 M4LC4	162	C903_88.2 P160 BN160MR4	163
19.3	5051	1.4	74.4	50200	C903_74.4 S4 M4LC4	162	C903_74.4 P160 BN160MR4	163
20.7	4710	2.5	69.4	84800	C1003_69.4 S4 M4LC4	165	C1003_69.4 P160 BN160MR4	166
24.3	4016	1.8	59.2	49000	C903_59.2 S4 M4LC4	162	C903_59.2 P160 BN160MR4	163
25.1	3887	1.0	57.3	34200	C803_57.3 S4 M4LC4	159	C803_57.3 P160 BN160MR4	160
28.6	3413	2.1	50.3	48000	C903_50.3 S4 M4LC4	162	C903_50.3 P160 BN160MR4	163
30	3219	1.2	47.4	33500	C803_47.4 S4 M4LC4	159	C803_47.4 P160 BN160MR4	160
33	2951	1.3	43.5	33100	C803_43.5 S4 M4LC4	159	C803_43.5 P160 BN160MR4	160
37	2673	2.7	39.4	46100	C903_39.4 S4 M4LC4	162	C903_39.4 P160 BN160MR4	163
37	2711	1.2	39.1	30900	C802_39.1 S4 M4LC4	159	C802_39.1 P160 BN160MR4	160



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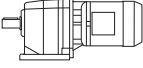
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46	2172	1.7	31.3	30000	C802_31.3 S4 M4LC4	159	C802_31.3 P160 BN160MR4	160
52	1921	1.1	27.7	17800	C702_27.7 S4 M4LC4	156	C702_27.7 P160 BN160MR4	157
55	1798	2.1	25.9	29200	C802_25.9 S4 M4LC4	159	C802_25.9 P160 BN160MR4	160
63	1584	1.3	22.9	17600	C702_22.9 S4 M4LC4	156	C702_22.9 P160 BN160MR4	157
65	1542	2.4	22.2	28400	C802_22.2 S4 M4LC4	159	C802_22.2 P160 BN160MR4	160
70	1423	2.5	20.5	28000	C802_20.5 S4 M4LC4	159	C802_20.5 P160 BN160MR4	160
73	1358	1.0	19.6	10800	C612_19.6 S4 M4LC4	152	C612_19.6 P160 BN160MR4	153
75	1337	1.6	19.3	17300	C702_19.3 S4 M4LC4	156	C702_19.3 P160 BN160MR4	157
80	1251	3.0	18.1	27300	C802_18.1 S4 M4LC4	159	C802_18.1 P160 BN160MR4	160
82	1223	1.1	17.7	10700	C612_17.7 S4 M4LC4	152	C612_17.7 P160 BN160MR4	153
86	1158	1.8	16.7	16800	C702_16.7 S4 M4LC4	156	C702_16.7 P160 BN160MR4	157
86	1155	3.0	16.7	26900	C802_16.7 S4 M4LC4	159	C802_16.7 P160 BN160MR4	160
90	1104	1.2	15.9	10700	C612_15.9 S4 M4LC4	152	C612_15.9 P160 BN160MR4	153
94	1063	2.0	15.3	16800	C702_15.3 S4 M4LC4	156	C702_15.3 P160 BN160MR4	157
100	994	1.4	14.3	10500	C612_14.3 S4 M4LC4	152	C612_14.3 P160 BN160MR4	153
102	977	2.2	14.1	16400	C702_14.1 S4 M4LC4	156	C702_14.1 P160 BN160MR4	157
111	903	2.3	13.0	16400	C702_13.0 S4 M4LC4	156	C702_13.0 P160 BN160MR4	157
119	838	1.6	12.1	10300	C612_12.1 S4 M4LC4	152	C612_12.1 P160 BN160MR4	153
122	820	0.9	11.8	6810	C512_11.8 S4 M4LC4	148	C512_11.8 P160 BN160MR4	149
128	777	2.8	11.2	15800	C702_11.2 S4 M4LC4	156	C702_11.2 P160 BN160MR4	157
132	755	1.8	10.9	10100	C612_10.9 S4 M4LC4	152	C612_10.9 P160 BN160MR4	153
141	707	3.0	10.2	15700	C702_10.2 S4 M4LC4	156	C702_10.2 P160 BN160MR4	157
147	680	2.0	9.8	9910	C612_9.8 S4 M4LC4	152	C612_9.8 P160 BN160MR4	153
148	676	1.0	9.8	6690	C512_9.8 S4 M4LC4	148	C512_9.8 P160 BN160MR4	149
151	660	3.3	9.5	15400	C702_9.5 S4 M4LC4	156	C702_9.5 P160 BN160MR4	157
163	613	2.2	8.8	9690	C612_8.8 S4 M4LC4	152	C612_8.8 P160 BN160MR4	153
164	609	1.1	8.8	6640	C512_8.8 S4 M4LC4	148	C512_8.8 P160 BN160MR4	149
186	537	1.2	7.8	6510	C512_7.8 S4 M4LC4	148	C512_7.8 P160 BN160MR4	149
192	519	2.6	7.5	9390	C612_7.5 S4 M4LC4	152	C612_7.5 P160 BN160MR4	153
206	484	1.3	7.0	6430	C512_7.0 S4 M4LC4	148	C512_7.0 P160 BN160MR4	149
214	467	2.9	6.7	9150	C612_6.7 S4 M4LC4	152	C612_6.7 P160 BN160MR4	153
240	416	1.6	6.0	8670	C612_6.0 S4 M4LC4	152	C612_6.0 P160 BN160MR4	153
256	390	1.1	5.6	5880	C512_5.6 S4 M4LC4	148	C512_5.6 P160 BN160MR4	149
290	344	1.2	3.3	5770	C512_3.3 S5 M5SA6	148	C512_3.3 P160 BN160L6	149
316	316	2.1	4.6	8160	C612_4.6 S4 M4LC4	152	C612_4.6 P160 BN160MR4	153
323	309	1.4	4.5	5660	C512_4.5 S4 M4LC4	148	C512_4.5 P160 BN160MR4	149
338	295	1.0	8.6	2850	C412_8.6 S4 M4LC2	144		
365	273	1.5	2.6	5540	C512_2.6 S5 M5SA6	148	C512_2.6 P160 BN160L6	149
389	256	2.6	3.7	7760	C612_3.7 S4 M4LC4	152	C612_3.7 P160 BN160MR4	153
399	250	1.0	3.6	2390	C412_3.6 S4 M4LC4	144		
413	242	1.2	7.1	2860	C412_7.1 S4 M4LC2	144		
435	229	1.8	3.3	5340	C512_3.3 S4 M4LC4	148	C512_3.3 P160 BN160MR4	149
459	217	1.3	6.4	2820	C412_6.4 S4 M4LC2	144		
491	203	1.3	6.0	2440	C412_6.0 S4 M4LC2	144		
511	195	3.4	2.8	7240	C612_2.8 S4 M4LC4	152	C612_2.8 P160 BN160MR4	153
519	192	2.2	5.6	5140	C512_5.6 S4 M4LC2	148	C512_5.6 P160 BN160MA2	149
542	184	1.3	2.7	2440	C412_2.7 S4 M4LC4	144		
548	182	2.2	2.6	5080	C512_2.6 S4 M4LC4	148	C512_2.6 P160 BN160MR4	149
626	159	1.6	4.7	2440	C412_4.7 S4 M4LC2	144		
656	152	2.9	4.5	4870	C512_4.5 S4 M4LC2	148	C512_4.5 P160 BN160MA2	149

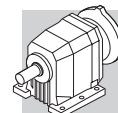


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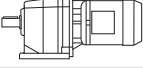
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
809	123	2.1	3.6	2400	C412_3.6 S4 M4LC2	144		
1098	91	2.7	2.7	2300	C412_2.7 S4 M4LC2	144		

15 kW

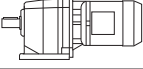
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10.5	12728	0.9	92.7	83900			C1003_92.7 P180 BN180L6	166
12.1	10997	1.1	120.5	83800	C1003_120.5 S5 M5SB4	165	C1003_120.5 P160 BN160L4	166
15.2	8782	0.8	96.2	43600	C903_96.2 S5 M5SB4	162	C903_96.2 P160 BN160L4	163
15.8	8456	1.4	92.7	82400	C1003_92.7 S5 M5SB4	165	C1003_92.7 P160 BN160L4	166
18.0	7411	1.0	81.2	44300	C903_81.2 S5 M5SB4	162	C903_81.2 P160 BN160L4	163
18.4	7249	1.7	79.4	81000	C1003_79.4 S5 M5SB4	165	C1003_79.4 P160 BN160L4	166
24.7	5402	1.3	59.2	44400	C903_59.2 S5 M5SB4	162	C903_59.2 P160 BN160L4	163
25.5	5233	2.3	57.4	77400	C1003_57.4 S5 M5SB4	165	C1003_57.4 P160 BN160L4	166
29.0	4590	1.5	50.3	44100	C903_50.3 S5 M5SB4	162	C903_50.3 P160 BN160L4	163
32	4218	2.8	46.2	74500	C1003_46.2 S5 M5SB4	165	C1003_46.2 P160 BN160L4	166
34	3968	1.0	43.5	30300	C803_43.5 S5 M5SB4	159	C803_43.5 P160 BN160L4	160
37	3595	2.0	39.4	43000	C903_39.4 S5 M5SB4	162	C903_39.4 P160 BN160L4	163
42	3272	1.7	35.1	42200	C902_35.1 S5 M5SB4	162	C902_35.1 P160 BN160L4	163
47	2921	1.3	31.3	27500	C802_31.3 S5 M5SB4	159	C802_31.3 P160 BN160L4	160
54	2533	2.2	27.2	40700	C902_27.2 S5 M5SB4	162	C902_27.2 P160 BN160L4	163
56	2419	1.5	25.9	27100	C802_25.9 S5 M5SB4	159	C802_25.9 P160 BN160L4	160
64	2136	2.9	22.9	39500	C902_22.9 S5 M5SB4	162	C902_22.9 P160 BN160L4	163
66	2073	1.8	22.2	26600	C802_22.2 S5 M5SB4	159	C802_22.2 P160 BN160L4	160
76	1798	1.2	19.3	15600	C702_19.3 S5 M5SB4	156	C702_19.3 P160 BN160L4	157
81	1683	2.2	18.1	25800	C802_18.1 S5 M5SB4	159	C802_18.1 P160 BN160L4	160
92	1485	0.9	15.9	9350	C612_15.9 S5 M5SB4	152	C612_15.9 P160 BN160L4	153
95	1429	1.5	15.3	15400	C702_15.3 S5 M5SB4	156	C702_15.3 P160 BN160L4	157
98	1390	2.7	14.9	25000	C802_14.9 S5 M5SB4	159	C802_14.9 P160 BN160L4	160
102	1337	1.0	14.3	9280	C612_14.3 S5 M5SB4	152	C612_14.3 P160 BN160L4	153
112	1215	1.7	13.0	15200	C702_13.0 S5 M5SB4	156	C702_13.0 P160 BN160L4	157
121	1127	1.2	12.1	9270	C612_12.1 S5 M5SB4	152	C612_12.1 P160 BN160L4	153
121	1120	3.3	12.0	24000	C802_12.0 S5 M5SB4	159	C802_12.0 P160 BN160L4	160
130	1045	2.1	11.2	14700	C702_11.2 S5 M5SB4	156	C702_11.2 P160 BN160L4	157
134	1015	1.3	10.9	9140	C612_10.9 S5 M5SB4	152	C612_10.9 P160 BN160L4	153
149	915	1.5	9.8	9090	C612_9.8 S5 M5SB4	152	C612_9.8 P160 BN160L4	153
153	888	2.4	9.5	14400	C702_9.5 S5 M5SB4	156	C702_9.5 P160 BN160L4	157
165	824	1.6	8.8	8930	C612_8.8 S5 M5SB4	152	C612_8.8 P160 BN160L4	153
182	746	2.8	8.0	14200			C702_8.0 P160 BN160L4	157
195	698	1.9	7.5	8760	C612_7.5 S5 M5SB4	152	C612_7.5 P160 BN160L4	153
209	651	1.0	7.0	5810			C512_7.0 P160 BN160L4	149
217	628	2.1	6.7	8570	C612_6.7 S5 M5SB4	152	C612_6.7 P160 BN160L4	153
223	610	1.0	13.1	5760			C512_13.1 P160 BN160MB2	149
242	562	2.4	12.1	8430	C612_12.1 S5 M5SB2	152	C612_12.1 P160 BN160MB2	153
248	550	1.1	11.8	5720			C512_11.8 P160 BN160MB2	149
269	506	2.7	10.9	8230	C612_10.9 S5 M5SB2	152	C612_10.9 P160 BN160MB2	153
298	456	2.9	9.8	8090	C612_9.8 S5 M5SB2	152	C612_9.8 P160 BN160MB2	153
300	453	1.2	9.8	5570			C512_9.8 P160 BN160MB2	149

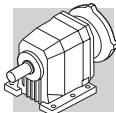


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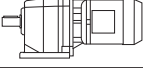
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320	425	1.6	4.6	7690	C612_4.6 S5 M5SB4	152	C612_4.6 P160 BN160L4	153
328	415	1.0	4.5	5170			C512_4.5 P160 BN160L4	149
331	411	3.2	8.8	7880	C612_8.8 S5 M5SB2	152	C612_8.8 P160 BN160MB2	153
333	408	1.3	8.8	5490	C612_3.7 S5 M5SB4	152	C512_8.8 P160 BN160MB2	149
378	360	1.4	7.8	5370			C512_7.8 P160 BN160MB2	149
395	345	1.9	3.7	7370			C612_3.7 P160 BN160L4	153
419	325	1.5	7.0	5280			C512_7.0 P160 BN160MB2	149
441	308	1.4	3.3	4970			C512_3.3 P160 BN160L4	149
488	279	2.4	6.0	7030	C612_6.0 S5 M5SB2	152	C612_6.0 P160 BN160MB2	153
518	263	2.5	2.8	6940	C612_2.8 S5 M5SB4	152	C612_2.8 P160 BN160L4	153
520	262	1.6	5.6	4840			C512_5.6 P160 BN160MB2	149
555	245	1.6	2.6	4780			C512_2.6 P160 BN160L4	149
643	212	3.1	4.6	6580	C612_4.6 S5 M5SB2	152	C612_4.6 P160 BN160MB2	153
658	207	2.1	4.5	4630			C512_4.5 P160 BN160MB2	149
886	154	2.7	3.3	4330			C512_3.3 P160 BN160MB2	149
1115	122	3.3	2.6	4100			C512_2.6 P160 BN160MB2	149

18.5 kW

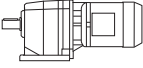
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15.8	10429	1.2	92.7	76700	C1003_92.7 S5 M5LA4	165	C1003_92.7 P180 BN180M4	166
21.0	7813	1.5	69.4	75400	C1003_69.4 S5 M5LA4	165	C1003_69.4 P180 BN180M4	166
22.6	7268	1.0	64.6	40300	C903_64.6 S5 M5LA4	162	C903_64.6 P180 BN180M4	163
26.6	6175	1.2	54.9	40700	C903_54.9 S5 M5LA4	162	C903_54.9 P180 BN180M4	163
27.4	5993	2.0	53.3	73100	C1003_53.3 S5 M5LA4	165	C1003_53.3 P180 BN180M4	166
34	4837	1.5	43.0	40600	C903_43.0 S5 M5LA4	162	C903_43.0 P180 BN180M4	163
34	4831	2.5	42.9	70800	C1003_42.9 S5 M5LA4	165	C1003_42.9 P180 BN180M4	166
42	4035	1.3	35.1	39800	C902_35.1 S5 M5LA4	162	C902_35.1 P180 BN180M4	163
43	3860	3.0	34.3	68100	C1003_34.3 S5 M5LA4	165	C1003_34.3 P180 BN180M4	166
50	3384	1.7	29.4	39100	C902_29.4 S5 M5LA4	162	C902_29.4 P180 BN180M4	163
56	2983	1.2	25.9	25300	C802_25.9 S5 M5LA4	159	C802_25.9 P180 BN180M4	160
66	2557	1.4	22.2	25100	C802_22.2 S5 M5LA4	159	C802_22.2 P180 BN180M4	160
76	2217	0.9	19.3	14100	C702_19.3 S5 M5LA4	156	C702_19.3 P180 BN180M4	157
87	1920	1.1	16.7	13800	C702_16.7 S5 M5LA4	156	C702_16.7 P180 BN180M4	157
88	1916	1.8	16.7	24400	C802_16.7 S5 M5LA4	159	C802_16.7 P180 BN180M4	160
104	1620	1.3	14.1	13900	C702_14.1 S5 M5LA4	156	C702_14.1 P180 BN180M4	157
106	1582	2.2	13.8	23700	C802_13.8 S5 M5LA4	159	C802_13.8 P180 BN180M4	160
121	1390	1.0	12.1	8420	C612_12.1 S5 M5LA4	152	C612_12.1 P180 BN180M4	153
130	1289	1.7	11.2	13800	C702_11.2 S5 M5LA4	156	C702_11.2 P180 BN180M4	157
132	1275	2.7	11.1	22900	C802_11.1 S5 M5LA4	159	C802_11.1 P180 BN180M4	160
134	1252	1.1	10.9	8360	C612_10.9 S5 M5LA4	152	C612_10.9 P180 BN180M4	153
149	1129	1.2	9.8	8400	C612_9.8 S5 M5LA4	152	C612_9.8 P180 BN180M4	153
153	1095	2.0	9.5	13600	C702_9.5 S5 M5LA4	156	C702_9.5 P180 BN180M4	157
165	1019	3.4	8.9	21900	C802_8.9 S5 M5LA4	159	C802_8.9 P180 BN180M4	160
165	1016	1.3	8.8	8300	C612_8.8 S5 M5LA4	152	C612_8.8 P180 BN180M4	153
195	860	1.6	7.5	8230	C612_7.5 S5 M5LA4	152	C612_7.5 P180 BN180M4	153
217	775	1.7	6.7	8090	C612_6.7 S5 M5LA4	152	C612_6.7 P180 BN180M4	153

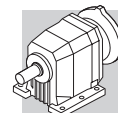


18.5 kW

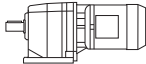
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
233	719	2.7	6.3	13100	C612_6.0 S5 M5LA4	152	C702_6.3 P180 BN180M4	157
243	690	1.0	6.0	7550			C612_6.0 P180 BN180M4	153
250	673	2.8	5.9	12800	C612_10.9 S5 M5SC2	152	C702_5.9 P180 BN180M4	157
269	624	2.2	10.9	7840			C612_10.9 P160BN160L2	153
298	562	2.4	9.8	7740	C612_9.8 S5 M5SC2	152	C612_9.8 P160BN160L2	153
300	559	1.0	9.8	5190			C512_9.8 P160BN160L2	149
319	526	3.2	4.6	12300	C612_4.6 S5 M5LA4	152	C702_4.6 P180 BN180M4	157
320	524	1.3	4.6	7300			C612_4.6 P180 BN180M4	153
331	507	2.6	8.8	7570	C612_8.8 S5 M5SC2	152	C612_8.8 P160BN160L2	153
333	504	1.1	8.8	5160			C512_8.8 P160BN160L2	149
378	444	1.1	7.8	5070	C612_7.5 S5 M5SC2	152	C512_7.8 P160BN160L2	149
391	429	2.9	7.5	7350			C612_7.5 P160BN160L2	153
395	425	1.6	3.7	7060	C612_3.7 S5 M5LA4	152	C612_3.7 P180 BN180M4	153
419	400	1.2	7.0	5010			C512_7.0 P160BN160L2	149
435	386	3.1	6.7	7170	C612_6.7 S5 M5SC2	152	C612_6.7 P160BN160L2	153
441	380	1.1	3.3	4660			C512_3.3 P180 BN180M4	149
488	344	1.9	6.0	6780	C612_6.0 S5 M5SC2	152	C612_6.0 P160BN160L2	153
518	324	2.1	2.8	6700			C612_2.8 P180 BN180M4	153
520	323	1.3	5.6	4580	C612_2.8 S5 M5LA4	152	C512_5.6 P160BN160L2	149
555	302	1.3	2.6	4540			C512_2.6 P180 BN180M4	149
643	261	2.5	4.6	6390	C612_4.6 S5 M5SC2	152	C612_4.6 P160BN160L2	153
658	255	1.7	4.5	4420			C512_4.5 P160BN160L2	149
792	212	3.1	3.7	6080	C612_3.7 S5 M5SC2	152	C612_3.7 P160BN160L2	153
886	189	2.2	3.3	4180			C512_3.3 P160BN160L2	149
1115	151	2.7	2.6	3980	C612_2.6 S5 M5LA4	152	C512_2.6 P160BN160L2	149

22 kW

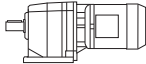
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
14.7	13266	0.9	99.8	70600			C1003_99.8 P180 BN180L4	166
18.5	10560	1.1	79.4	71200			C1003_79.4 P180 BN180L4	166
24.8	7869	0.9	59.2	36700			C903_59.2 P180 BN180L4	163
25.6	7623	1.6	57.4	70300			C1003_57.4 P180 BN180L4	166
29.2	6686	1.1	50.3	37400			C903_50.3 P180 BN180L4	163
32	6144	2.0	46.2	68800			C1003_46.2 P180 BN180L4	166
40	4909	2.4	36.9	66700			C1003_36.9 P180 BN180L4	166
42	4766	1.1	35.1	37400			C902_35.1 P180 BN180L4	163
50	4013	2.3	29.6	64100			C1002_29.6 P180 BN180L4	166
50	3997	1.5	29.4	37100			C902_29.4 P180 BN180L4	163
61	3252	1.1	24.0	23700			C802_24.0 P180 BN180L4	160
64	3112	2.0	22.9	36400			C902_22.9 P180 BN180L4	163
81	2451	1.5	18.1	23300			C802_18.1 P180 BN180L4	160
85	2350	2.8	17.3	34900			C902_17.3 P180 BN180L4	163
88	2268	0.9	16.7	12400			C702_16.7 P180 BN180L4	157
99	2025	1.8	14.9	22900			C802_14.9 P180 BN180L4	160
104	1914	1.1	14.1	12700			C702_14.1 P180 BN180L4	157
106	1881	3.2	13.9	33700			C902_13.9 P180 BN180L4	163
131	1522	1.4	11.2	12900			C702_11.2 P180 BN180L4	157

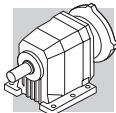


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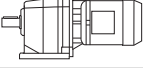
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
133	1506	2.3	11.1	22100			C802_11.1 P180 BN180L4	160
135	1478	0.9	10.9	7580			C612_10.9 P180 BN180L4	153
150	1333	1.0	9.8	7710			C612_9.8 P180 BN180L4	153
154	1293	1.7	9.5	12800			C702_9.5 P180 BN180L4	157
166	1204	2.9	8.9	21300			C802_8.9 P180 BN180L4	160
166	1201	1.1	8.8	7660			C612_8.8 P180 BN180L4	153
184	1085	1.2	15.9	7710			C612_15.9 P180 BN180M2	153
196	1016	1.3	7.5	7690			C612_7.5 P180 BN180L4	153
197	1013	2.0	7.5	12700			C702_7.5 P180 BN180L4	157
209	956	3.5	7.0	20400			C802_7.0 P180 BN180L4	160
218	915	1.5	6.7	7600			C612_6.7 P180 BN180L4	153
251	794	2.4	5.9	12300			C702_5.9 P180 BN180L4	157
269	742	1.8	10.9	7460			C612_10.9 P180 BN180M2	153
298	669	2.0	9.8	7390			C612_9.8 P180 BN180M2	153
322	621	2.7	4.6	11900			C702_4.6 P180 BN180L4	157
323	619	1.1	4.6	6910			C612_4.6 P180 BN180L4	153
331	602	2.2	8.8	7250			C612_8.8 P180 BN180M2	153
333	599	0.9	8.8	4820			C512_8.8 P180 BN180M2	149
378	528	1.0	7.8	4770			C512_7.8 P180 BN180M2	149
391	510	2.4	7.5	7080			C612_7.5 P180 BN180M2	153
397	502	1.3	3.7	6740			C612_3.7 P180 BN180L4	153
419	476	1.1	7.0	4740			C512_7.0 P180 BN180M2	149
435	459	2.6	6.7	6920			C612_6.7 P180 BN180M2	153
444	449	0.9	3.3	4350			C512_3.3 P180 BN180L4	149
488	409	1.6	6.0	6530			C612_6.0 P180 BN180M2	153
520	384	1.1	5.6	4310			C512_5.6 P180 BN180M2	149
521	383	1.7	2.8	6450			C612_2.8 P180 BN180L4	153
559	357	1.1	2.6	4290			C512_2.6 P180 BN180L4	149
643	310	2.1	4.6	6200			C612_4.6 P180 BN180M2	153
658	303	1.4	4.5	4210			C512_4.5 P180 BN180M2	149
792	252	2.6	3.7	5930			C612_3.7 P180 BN180M2	153
886	225	1.9	3.3	4030			C512_3.3 P180 BN180M2	149
1039	192	3.5	2.8	5560			C612_2.8 P180 BN180M2	153
1115	179	2.2	2.6	3860			C512_2.6 P180 BN180M2	149

30 kW

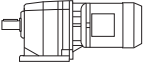
n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC 	
21.2	12584	1.0	69.4	61300			C1003_69.4 P200 BN200L4	166
25.6	10395	1.2	57.4	62200			C1003_57.4 P200 BN200L4	166
32	8379	1.4	46.2	62300			C1003_46.2 P200 BN200L4	166
37	7142	1.0	39.4	31900			C903_39.4 P200 BN200L4	163
50	5472	1.7	29.6	59800			C1002_29.6 P200 BN200L4	166
50	5450	1.1	29.4	32600			C902_29.4 P200 BN200L4	163
64	4243	1.5	22.9	32900			C902_22.9 P200 BN200L4	163
66	4119	2.4	22.2	57700			C1002_22.2 P200 BN200L4	166
79	3459	1.8	18.7	32600			C902_18.7 P200 BN200L4	163
79	3456	3.1	18.7	56000			C1002_18.7 P200 BN200L4	166



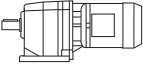
30 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
99	2761	1.3	14.9	20600			C802_14.9 P200 BN200L4	160
106	2566	2.4	13.9	31500			C902_13.9 P200 BN200L4	163
122	2225	1.7	12.0	20500			C802_12.0 P200 BN200L4	160
131	2079	2.7	11.2	30600			C902_11.2 P200 BN200L4	163
153	1778	2.1	9.6	20100			C802_9.6 P200 BN200L4	160
154	1763	1.2	9.5	11000			C702_9.5 P200 BN200L4	157
184	1482	1.4	8.0	11600			C702_8.0 P200 BN200L4	157
193	1412	2.4	7.6	19500			C802_7.6 P200 BN200L4	160
209	1303	2.6	7.0	19300			C802_7.0 P200 BN200L4	160
235	1158	1.7	6.3	11500			C702_6.3 P200 BN200L4	157
241	1131	2.8	6.1	18900			C802_6.1 P200 BN200L4	160
261	1044	3.0	5.6	18600			C802_5.6 P200 BN200L4	160
322	846	2.0	4.6	11000			C702_4.6 P200 BN200L4	157

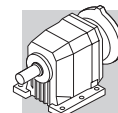
37 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
25.8	12734	0.9	57.4	55300			C1003_57.4 P225 IEC225S4	166
32	10264	1.2	46.2	56600			C1003_46.2 P225 IEC225S4	166
40	8201	1.4	36.9	57000			C1003_36.9 P225 IEC225S4	166
60	5631	1.2	24.8	29500			C902_24.8 P225 IEC225S4	163
61	5467	2.0	24.1	55200			C1002_24.1 P225 IEC225S4	166
79	4237	1.5	18.7	30100			C902_18.7 P225 IEC225S4	163
79	4234	2.5	18.7	53600			C1002_18.7 P225 IEC225S4	166
89	3779	0.9	16.7	18500			C802_16.7 P225 IEC225S4	160
107	3143	1.9	13.9	29700			C902_13.9 P225 IEC225S4	163
108	3122	1.1	13.8	18800			C802_13.8 P225 IEC225S4	160
123	2726	1.4	12.0	18800			C802_12.0 P225 IEC225S4	160
132	2546	2.2	11.2	29100			C902_11.2 P225 IEC225S4	163
154	2178	1.7	9.6	18800			C802_9.6 P225 IEC225S4	160
164	2046	2.5	9.0	28300			C902_9.0 P225 IEC225S4	163
194	1730	2.0	7.6	18500			C802_7.6 P225 IEC225S4	160
202	1661	2.9	7.3	27400			C902_7.3 P225 IEC225S4	163
242	1386	2.3	6.1	18000			C802_6.1 P225 IEC225S4	160
264	1271	3.5	5.6	26100			C902_5.6 P225 IEC225S4	163
286	1173	3.7	5.2	25700			C902_5.2 P225 IEC225S4	163

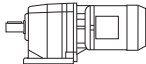
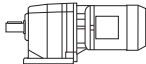
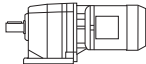
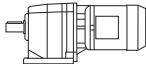
45 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N				
32	12483	1.0	46.2	50200			C1003_46.2 P225 IEC225M4	166
40	9974	1.2	36.9	51900			C1003_36.9 P225 IEC225M4	166
50	8153	1.1	29.6	51900			C1002_29.6 P225 IEC225M4	166
65	6322	1.0	22.9	26400			C902_22.9 P225 IEC225M4	163
67	6137	1.6	22.2	51700			C1002_22.2 P225 IEC225M4	166

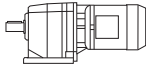
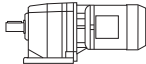
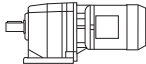
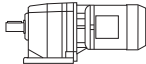
*Los datos técnicos son indicativos, las configuraciones deben reflejarse de los fabricantes de motores eléctricos para poder por encima de 30 kW.



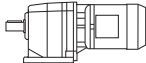
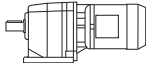
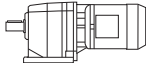
45 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC  (*)	
79	5153	1.2	18.7	27200			C902_18.7 P225 IEC225M4	163
79	5149	2.1	18.7	51000			C1002_18.7 P225 IEC225M4	166
107	3822	1.6	13.9	27600			C902_13.9 P225 IEC225M4	163
108	3797	0.9	13.8	16700			C802_13.8 P225 IEC225M4	160
123	3315	1.1	12.0	17000			C802_12.0 P225 IEC225M4	160
132	3097	1.8	11.2	27400			C902_11.2 P225 IEC225M4	163
154	2649	1.4	9.6	17300			C802_9.6 P225 IEC225M4	160
164	2488	2.1	9.0	26900			C902_9.0 P225 IEC225M4	163
194	2104	1.6	7.6	17300			C802_7.6 P225 IEC225M4	160
202	2020	2.4	7.3	26300			C902_7.3 P225 IEC225M4	163
262	1556	2.0	5.6	17000			C802_5.6 P225 IEC225M4	160
264	1546	2.8	5.6	25200			C902_5.6 P225 IEC225M4	163
279	1464	2.9	5.2	25200			C902_5.2 P225 IEC225M4	163

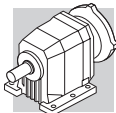
55 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC  (*)	
40	12191	1.0	36.9	45400			C1003_36.9 P250 IEC250M4	166
50	9965	0.9	29.6	46700			C1002_29.6 P250 IEC250M4	166
61	8126	1.3	24.1	47500			C1002_24.1 P250 IEC250M4	166
79	6298	1.0	18.7	22200			C902_18.7 P250 IEC250M4	163
79	6294	1.7	18.7	47700			C1002_18.7 P250 IEC250M4	166
107	4672	1.3	13.9	24900			C902_13.9 P250 IEC250M4	163
110	4549	2.1	13.5	46500			C1002_13.5 P250 IEC250M4	166
135	3686	2.4	10.9	45400			C1002_10.9 P250 IEC250M4	166
164	3050	2.7	9.0	44100			C1002_9.0 P250 IEC250M4	166
164	3041	1.7	9.0	25200			C902_9.0 P250 IEC250M4	163
202	2468	2.0	7.3	24900			C902_7.3 P250 IEC250M4	163
209	2383	3.2	7.1	42300			C1002_7.1 P250 IEC250M4	166
264	1889	2.3	5.6	24200			C902_5.6 P250 IEC250M4	163
286	1744	2.5	5.2	24000			C902_5.2 P250 IEC250M4	163

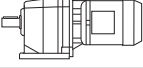
75 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC  (*)	
62	11044	1.0	24.1	38100			C1002_24.1 P280 IEC280S4	166
67	10194	1.0	22.2	40000			C1002_22.2 P280 IEC280S4	166
73	9266	1.2	20.2	40500			C1002_20.2 P280 IEC280S4	166
80	8553	1.3	18.7	41100			C1002_18.7 P280 IEC280S4	166
90	7552	1.3	16.5	41400			C1002_16.5 P280 IEC280S4	166
98	6971	1.4	15.2	41800			C1002_15.2 P280 IEC280S4	166
110	6182	1.5	13.5	41700			C1002_13.5 P280 IEC280S4	166
119	5707	1.6	12.5	41800			C1002_12.5 P280 IEC280S4	166
136	5010	1.8	10.9	41500			C1002_10.9 P280 IEC280S4	166
147	4624	1.9	10.1	41400			C1002_10.1 P280 IEC280S4	166

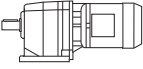
*Los datos técnicos son indicativos, las configuraciones deben reflejarse de los fabricantes de motores eléctricos para poder por encima de 30 kW.



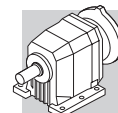
75 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC  (*)	
164	4146	2.0	9.0	40900			C1002_ 9.0 P280 IEC280S4	166
178	3827	2.1	8.4	40600			C1002_ 8.4 P280 IEC280S4	166
210	3238	2.4	7.1	39700			C1002_ 7.1 P280 IEC280S4	166
228	2989	2.5	6.5	39300			C1002_ 6.5 P280 IEC280S4	166
278	2444	2.8	5.3	38100			C1002_ 5.3 P280 IEC280S4	166
302	2256	3.0	4.9	37600			C1002_ 4.9 P280 IEC280S4	166

90 kW

n_2 min ⁻¹	M_2 Nm	S	i	R_{n2} N			 IEC  (*)	
73	11119	1.0	20.2	30600			C1002_20.2 P280 IEC280M4	166
80	10264	1.0	18.7	35500			C1002_18.7 P280 IEC280M4	166
90	9062	1.1	16.5	37100			C1002_16.5 P280 IEC280M4	166
98	8365	1.2	15.2	37800			C1002_15.2 P280 IEC280M4	166
110	7419	1.3	13.5	38100			C1002_13.5 P280 IEC280M4	166
119	6848	1.4	12.5	38500			C1002_12.5 P280 IEC280M4	166
136	6012	1.5	10.9	38600			C1002_10.9 P280 IEC280M4	166
147	5549	1.6	10.1	38700			C1002_10.1 P280 IEC280M4	166
164	4975	1.7	9.0	38500			C1002_9.0 P280 IEC280M4	166
178	4592	1.8	8.4	38400			C1002_8.4 P280 IEC280M4	166
210	3886	2.0	7.1	37800			C1002_7.1 P280 IEC280M4	166
228	3587	2.1	6.5	37600			C1002_6.5 P280 IEC280M4	166
278	2933	2.4	5.3	36600			C1002_5.3 P280 IEC280M4	166
302	2707	2.5	4.9	36300			C1002_4.9 P280 IEC280M4	166

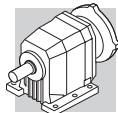
*Los datos técnicos son indicativos, las configuraciones deben reflejarse de los fabricantes de motores eléctricos para poder por encima de 30 kW.



C 12

100 Nm

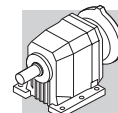
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 12 2_2.8	2.8	1012	30	3.3	750	600	506	37	2.1	990	790	131
C 12 2_3.2	3.2	873	32	3.1	730	600	436	40	1.9	960	790	
C 12 2_3.7	3.7	767	34	2.9	720	610	383	42	1.8	960	800	
C 12 2_4.3	4.3	649	36	2.6	710	630	325	45	1.6	890	800	
C 12 2_4.9	4.9	575	38	2.4	710	640	288	48	1.5	880	800	
C 12 2_5.6	5.6	500	40	2.2	680	650	250	51	1.4	840	810	
C 12 2_6.2	6.2	449	42	2.1	650	660	225	53	1.3	810	830	
C 12 2_7.6	7.6	367	45	1.8	1140	1220	184	56	1.1	1300	1540	
C 12 2_8.8	8.8	317	47	1.6	1140	1280	158	59	1.0	1300	1620	
C 12 2_10.1	10.1	278	49	1.5	1150	1340	139	63	0.97	1300	1680	
C 12 2_11.9	11.9	236	53	1.4	1140	1390	118	67	0.87	1300	1760	
C 12 2_13.4	13.4	209	55	1.3	1140	1460	104	70	0.81	1300	1840	
C 12 2_15.4	15.4	182	58	1.2	1130	1500	91	73	0.73	1300	1930	
C 12 2_17.2	17.2	163	60	1.1	1130	1590	82	76	0.68	1300	2000	
C 12 2_18.4	18.4	152	62	1.0	1120	1620	76	78	0.65	1300	2000	
C 12 2_20.6	20.6	136	65	1.0	1110	1670	68	82	0.61	1300	2000	
C 12 2_23.2	23.2	120	67	0.89	1110	1720	60	85	0.56	1300	2000	
C 12 2_25.4	25.4	110	69	0.84	1110	1800	55	88	0.54	1300	2000	
C 12 2_29.5	29.5	95	74	0.77	1100	1880	47	93	0.49	1300	2000	
C 12 2_32.8	32.8	85	75	0.71	1090	1970	43	90	0.42	1300	2000	
C 12 2_37.0	37.0	76	79	0.66	1070	2000	38	90	0.38	1300	2000	
C 12 2_42.3	42.3	66	84	0.61	1060	2000	33	100	0.36	1300	2000	
C 12 2_47.6	47.6	59	85	0.55	1050	2000	29.4	90	0.29	1300	2000	
C 12 2_55.2	55.2	51	89	0.50	1030	2000	25.4	90	0.25	1300	2000	
C 12 2_66.2	66.2	42	86	0.40	1060	2000	21.2	90	0.21	1300	2000	



C 12

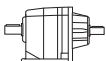
100 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 12 2_2.8	2.8	325	43	1.5	1140	910	181	53	1.1	1300	1080	131
C 12 2_3.2	3.2	281	46	1.4	1100	910	156	57	1.0	1300	1080	
C 12 2_3.7	3.7	246	49	1.3	1090	920	137	60	0.91	1300	1100	
C 12 2_4.3	4.3	209	52	1.2	1050	920	116	64	0.82	1280	1100	
C 12 2_4.9	4.9	185	55	1.1	1050	960	103	67	0.76	1280	1160	
C 12 2_5.6	5.6	161	58	1.0	1000	980	89	69	0.68	1300	1280	
C 12 2_6.2	6.2	144	61	1.0	960	980	80	70	0.62	1300	1390	
C 12 2_7.6	7.6	118	65	0.85	1300	1780	66	79	0.57	1300	2000	
C 12 2_8.8	8.8	102	69	0.77	1300	1830	57	84	0.52	1300	2000	
C 12 2_10.1	10.1	89	72	0.71	1300	1950	50	88	0.48	1300	2000	
C 12 2_11.9	11.9	76	77	0.64	1300	2000	42	89	0.41	1300	2000	
C 12 2_13.4	13.4	67	81	0.60	1300	2000	37	90	0.37	1300	2000	
C 12 2_15.4	15.4	58	85	0.55	1300	2000	32	89	0.32	1300	2000	
C 12 2_17.2	17.2	52	88	0.51	1300	2000	29.1	90	0.29	1300	2000	
C 12 2_18.4	18.4	49	88	0.47	1300	2000	27.2	89	0.27	1300	2000	
C 12 2_20.6	20.6	44	89	0.43	1300	2000	24.2	89	0.24	1300	2000	
C 12 2_23.2	23.2	39	89	0.38	1300	2000	21.5	89	0.21	1300	2000	
C 12 2_25.4	25.4	35	89	0.35	1300	2000	19.7	89	0.19	1300	2000	
C 12 2_29.5	29.5	31	100	0.34	1300	2000	16.9	100	0.19	1300	2000	
C 12 2_32.8	32.8	27.5	90	0.27	1300	2000	15.3	90	0.15	1300	2000	
C 12 2_37.0	37.0	24.3	90	0.24	1300	2000	13.5	90	0.13	1300	2000	
C 12 2_42.3	42.3	21.3	100	0.23	1300	2000	11.8	100	0.13	1300	2000	
C 12 2_47.6	47.6	18.9	90	0.19	1300	2000	10.5	90	0.10	1300	2000	
C 12 2_55.2	55.2	16.3	90	0.16	1300	2000	9.1	90	0.09	1300	2000	
C 12 2_66.2	66.2	13.6	90	0.13	1300	2000	7.6	90	0.07	1300	2000	

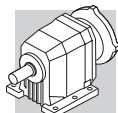


C 22

200 Nm

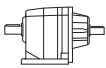
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		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 22 2_2.7	2.7	1029	65	7.4	—	1150	514	80	4.5	—	1460	135
C 22 2_3.3	3.3	842	68	6.3	—	1230	421	85	3.9	—	1560	
C 22 2_3.7	3.7	755	70	5.8	—	1290	378	90	3.7	—	1610	
C 22 2_4.3	4.3	658	75	5.4	—	1320	329	94	3.4	—	1650	
C 22 2_4.8	4.8	587	80	5.2	—	1370	294	100	3.2	—	1730	
C 22 2_5.6	5.6	501	82	4.5	—	1410	250	102	2.8	—	1790	
C 22 2_6.1	6.1	460	85	4.3	—	1500	230	105	2.7	—	1900	
C 22 2_7.1	7.1	395	105	4.6	1090	1570	198	130	2.8	1420	1990	
C 22 2_8.7	8.7	324	110	3.9	1130	1680	162	138	2.5	1430	2090	
C 22 2_9.6	9.6	290	115	3.7	1160	1750	145	145	2.3	1460	2200	
C 22 2_11.1	11.1	253	120	3.3	1130	1820	126	153	2.1	1390	2270	
C 22 2_12.4	12.4	226	125	3.1	1160	1900	113	160	2.0	1420	2380	
C 22 2_14.5	14.5	193	133	2.8	1090	1980	96	168	1.8	1360	2450	
C 22 2_15.8	15.8	177	140	2.7	1030	2030	88	175	1.7	1320	2570	
C 22 2_18.1	18.1	154	145	2.5	1000	2140	77	183	1.6	1250	2650	
C 22 2_20.0	20.0	140	150	2.3	1000	2210	70	190	1.5	1250	2770	
C 22 2_21.5	21.5	131	153	2.2	970	2250	65	194	1.4	1190	2820	
C 22 2_24.3	24.3	115	160	2.0	980	2350	58	200	1.3	1250	2970	
C 22 2_27.2	27.2	103	166	1.9	960	2420	52	200	1.1	1340	3110	
C 22 2_29.6	29.6	95	175	1.8	850	2490	47	200	1.0	1350	3270	
C 22 2_33.1	33.1	85	178	1.7	840	2590	42	200	0.93	1390	3400	
C 22 2_36.8	36.8	76	185	1.6	750	2690	38	200	0.84	1400	3610	
C 22 2_43.3	43.3	65	185	1.3	830	2910	32	190	0.68	1610	3950	
C 22 2_48.6	48.6	58	150	0.95	1300	3300	28.8	155	0.49	1740	4400	
C 22 2_54.7	54.7	51	150	0.85	1320	3470	25.6	155	0.44	1770	4600	
C 22 2_63.3	63.3	44	125	0.61	1400	3860	22.1	130	0.32	1820	5000	
C 22 3_60.0	60.0	47	180	0.93	840	3400	23.3	190	0.49	1230	4500	
C 22 3_65.3	65.3	43	200	0.94	880	3440	21.4	200	0.47	1270	4670	
C 22 3_74.8	74.8	37	200	0.83	940	3600	18.7	200	0.41	1270	4800	
C 22 3_82.6	82.6	34	200	0.75	1010	3820	16.9	200	0.37	1300	5000	
C 22 3_88.5	88.5	32	200	0.70	1040	3900	15.8	200	0.35	1300	5000	
C 22 3_100.2	100.2	28.0	200	0.62	1090	4160	14.0	200	0.31	1300	5000	
C 22 3_112.0	112.0	25.0	200	0.55	1130	4300	12.5	200	0.28	1300	5000	
C 22 3_122.2	122.2	22.9	200	0.51	1160	4540	11.5	200	0.25	1300	5000	
C 22 3_136.5	136.5	20.5	200	0.45	1180	4700	10.3	200	0.23	1300	5000	
C 22 3_151.7	151.7	18.5	200	0.41	1220	4980	9.2	200	0.20	1300	5000	
C 22 3_178.5	178.5	15.7	200	0.35	1260	5000	7.8	200	0.17	1300	5000	
C 22 3_200.7	200.7	14.0	190	0.29	1280	5000	7.0	190	0.15	1300	5000	
C 22 3_225.8	225.8	12.4	180	0.25	1300	5000	6.2	185	0.13	1300	5000	
C 22 3_261.0	261.0	10.7	145	0.17	1300	5000	5.4	155	0.09	1300	5000	

(—) Contactar con nuestro servicio técnico facilitando los datos relativos a la carga radial (sentido de giro, orientación y posición)

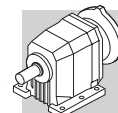


C 22

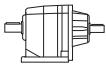
200 Nm

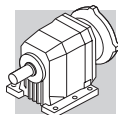
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		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 22 2_2.7	2.7	331	95	3.5	—	1670	184	100	2.0	400	2150	135
C 22 2_3.3	3.3	271	100	3.0	—	1760	150	103	1.7	570	2300	
C 22 2_3.7	3.7	243	105	2.8	—	1850	135	105	1.6	800	2430	
C 22 2_4.3	4.3	211	105	2.4	—	1980	117	105	1.4	940	2550	
C 22 2_4.8	4.8	189	105	2.2	170	2090	105	105	1.2	1200	2710	
C 22 2_5.6	5.6	161	105	1.9	200	2250	89	112	1.1	1020	2850	
C 22 2_6.1	6.1	148	110	1.8	200	2290	82	116	1.1	980	2930	
C 22 2_7.1	7.1	127	150	2.1	1650	2310	71	180	1.4	2060	2820	
C 22 2_8.7	8.7	104	160	1.8	1650	2440	58	190	1.2	2100	3000	
C 22 2_9.6	9.6	93	170	1.7	1650	2530	52	200	1.1	2130	3130	
C 22 2_11.1	11.1	81	176	1.6	1640	2650	45	200	0.99	2170	3270	
C 22 2_12.4	12.4	73	185	1.5	1650	2760	40	200	0.89	2200	3520	
C 22 2_14.5	14.5	62	193	1.3	1610	2850	34	200	0.76	2200	3670	
C 22 2_15.8	15.8	57	200	1.3	1580	2990	32	200	0.70	2200	3920	
C 22 2_18.1	18.1	50	200	1.1	1650	3150	27.6	200	0.61	2200	4200	
C 22 2_20.0	20.0	45	200	0.99	1750	3340	25.0	200	0.55	2200	4350	
C 22 2_21.5	21.5	42	200	0.92	1760	3450	23.3	200	0.51	2200	4550	
C 22 2_24.3	24.3	37	200	0.82	1900	3650	20.6	200	0.45	2200	4720	
C 22 2_27.2	27.2	33	200	0.73	1950	3820	18.4	200	0.41	2200	5000	
C 22 2_29.6	29.6	30	200	0.67	1980	3990	16.9	200	0.37	2200	5000	
C 22 2_33.1	33.1	27.2	200	0.60	1970	4200	15.1	200	0.33	2200	5000	
C 22 2_36.8	36.8	24.5	200	0.54	1990	4390	13.6	200	0.30	2200	5000	
C 22 2_43.3	43.3	20.8	190	0.44	2020	4770	11.6	190	0.24	2200	5000	
C 22 2_48.6	48.6	18.5	160	0.33	2050	5000	10.3	170	0.19	2200	5000	
C 22 2_54.7	54.7	16.4	160	0.29	2090	5000	9.1	170	0.17	2200	5000	
C 22 2_63.3	63.3	14.2	135	0.21	2140	5000	7.9	140	0.12	2200	5000	
C 22 3_60.0	60.0	15.0	190	0.31	1300	5000	8.3	200	0.18	1300	5000	
C 22 3_65.3	65.3	13.8	200	0.31	1300	5000	7.7	200	0.17	1300	5000	
C 22 3_74.8	74.8	12.0	200	0.27	1300	5000	6.7	200	0.15	1300	5000	
C 22 3_82.6	82.6	10.9	200	0.25	1300	5000	6.1	200	0.14	1300	5000	
C 22 3_88.5	88.5	10.2	200	0.22	1300	5000	5.6	200	0.12	1300	5000	
C 22 3_100.2	100.2	9.0	200	0.20	1300	5000	5.0	200	0.11	1300	5000	
C 22 3_112.0	112.0	8.0	200	0.18	1300	5000	4.5	200	0.10	1300	5000	
C 22 3_122.2	122.2	7.4	200	0.17	1300	5000	4.1	200	0.09	1300	5000	
C 22 3_136.5	136.5	6.6	200	0.15	1300	5000	3.7	200	0.08	1300	5000	
C 22 3_151.7	151.7	5.9	200	0.13	1300	5000	3.3	200	0.07	1300	5000	
C 22 3_178.5	178.5	5.0	200	0.11	1300	5000	2.8	200	0.06	1300	5000	
C 22 3_200.7	200.7	4.5	195	0.10	1300	5000	2.5	200	0.05	1300	5000	
C 22 3_225.8	225.8	4.0	195	0.09	1300	5000	2.2	200	0.05	1300	5000	
C 22 3_261.0	261.0	3.4	160	0.06	1300	5000	1.9	165	0.04	1300	5000	

(—) Contactar con nuestro servicio técnico facilitando los datos relativos a la carga radial (sentido de giro, orientación y posición)



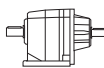
C 32 300 Nm

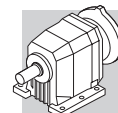
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 32 2_2.9	2.9	973	105	11.3	670	1710	486	130	7.0	940	2170	139
C 32 2_3.4	3.4	821	116	10.5	480	1770	411	138	6.2	900	2280	
C 32 2_3.7	3.7	750	120	9.9	560	1830	375	150	6.2	750	2310	
C 32 2_4.5	4.5	622	129	8.8	450	1930	311	152	5.2	970	2500	
C 32 2_5.0	5.0	565	135	8.4	470	1990	283	155	4.8	1100	2600	
C 32 2_5.7	5.7	495	141	7.7	380	2080	248	155	4.2	1250	2760	
C 32 2_6.3	6.3	447	150	7.4	300	2130	223	155	3.8	1450	2890	
C 32 2_7.2	7.2	391	160	6.9	1890	2370	195	200	4.3	2200	2990	
C 32 2_8.5	8.5	330	168	6.1	1900	2510	165	209	3.8	2200	3180	
C 32 2_9.3	9.3	301	175	5.8	1910	2580	151	220	3.7	2200	3260	
C 32 2_11.2	11.2	250	187	5.2	1910	2740	125	231	3.2	2200	3480	
C 32 2_12.3	12.3	227	195	4.9	1910	2820	114	245	3.1	2200	3560	
C 32 2_14.1	14.1	199	205	4.5	1900	2940	99	251	2.8	2200	3750	
C 32 2_15.6	15.6	180	215	4.3	1900	3030	90	270	2.7	2200	3820	
C 32 2_18.2	18.2	154	223	3.8	1900	3210	77	275	2.3	2200	4070	
C 32 2_20.1	20.1	139	235	3.6	1900	3290	70	295	2.3	2200	4160	
C 32 2_22.9	22.9	122	240	3.2	1880	3470	61	295	2.0	2200	4400	
C 32 2_25.1	25.1	111	250	3.1	1890	3560	56	300	1.8	2200	4570	
C 32 2_26.9	26.9	104	255	2.9	1880	3650	52	300	1.7	2200	4700	
C 32 2_29.8	29.8	94	265	2.7	1880	3770	47	300	1.6	2200	4920	
C 32 2_33.1	33.1	85	270	2.5	1880	3920	42	300	1.4	2200	5150	
C 32 2_36.1	36.1	78	280	2.4	1870	4030	39	300	1.3	2200	5350	
C 32 2_40.7	40.7	69	290	2.2	1860	4200	34	300	1.1	2200	5500	
C 32 2_45.3	45.3	62	300	2.0	1860	4360	31	300	1.0	2200	5500	
C 32 2_52.4	52.4	53	300	1.8	1860	4650	26.7	300	0.88	2200	5500	
C 32 2_59.4	59.4	47	205	1.1	2020	5000	23.6	215	0.56	2200	5500	
C 32 2_66.8	66.8	42	205	0.95	2020	5500	21.0	215	0.50	2200	5500	
C 32 3_74.7	74.7	37	280	1.2	750	5500	18.7	290	0.60	1170	5500	
C 32 3_82.6	82.6	34	300	1.1	820	5500	17.0	300	0.56	1240	5500	
C 32 3_94.2	94.2	29.7	300	0.98	900	5500	14.9	300	0.49	1270	5500	
C 32 3_103.3	103.3	27.1	300	0.90	980	5500	13.6	300	0.45	1300	5500	
C 32 3_110.6	110.6	25.3	300	0.84	1000	5500	12.7	300	0.42	1300	5500	
C 32 3_122.4	122.4	22.9	300	0.76	1060	5500	11.4	300	0.38	1300	5500	
C 32 3_136.0	136.0	20.6	300	0.68	1110	5500	10.3	300	0.34	1300	5500	
C 32 3_148.4	148.4	18.9	300	0.62	1130	5500	9.4	300	0.31	1300	5500	
C 32 3_167.4	167.4	16.7	300	0.55	1180	5500	8.4	300	0.28	1300	5500	
C 32 3_186.0	186.0	15.1	300	0.50	1200	5500	7.5	300	0.25	1300	5500	
C 32 3_215.6	215.6	13.0	300	0.43	1240	5500	6.5	300	0.21	1300	5500	
C 32 3_244.2	244.2	11.5	240	0.30	1280	5500	5.7	255	0.16	1300	5500	
C 32 3_274.7	274.7	10.2	240	0.27	1300	5500	5.1	255	0.14	1300	5500	



C 32

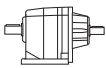
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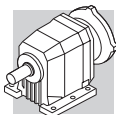
	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 32 2_2.9	2.9	313	150	5.2	1120	2510	174	155	3.0	2200	3220	139
C 32 2_3.4	3.4	264	152	4.4	1390	2690	147	167	2.7	2200	3390	
C 32 2_3.7	3.7	241	155	4.1	1570	2790	134	175	2.6	2200	3480	
C 32 2_4.5	4.5	200	158	3.5	1750	3010	111	188	2.3	2200	3690	
C 32 2_5.0	5.0	182	162	3.2	1870	3120	101	198	2.2	2200	3790	
C 32 2_5.7	5.7	159	171	3.0	1730	3250	88	198	1.9	2200	4010	
C 32 2_6.3	6.3	144	178	2.8	1730	3350	80	200	1.8	2200	4180	
C 32 2_7.2	7.2	126	235	3.3	2200	3450	70	285	2.2	2200	4200	
C 32 2_8.5	8.5	106	246	2.9	2200	3660	59	288	1.9	2200	4520	
C 32 2_9.3	9.3	97	260	2.8	2200	3750	54	300	1.8	2200	4640	
C 32 2_11.2	11.2	80	272	2.4	2200	4010	45	300	1.5	2200	5030	
C 32 2_12.3	12.3	73	285	2.3	2200	4120	41	300	1.3	2200	5250	
C 32 2_14.1	14.1	64	290	2.0	2200	4340	36	300	1.2	2200	5500	
C 32 2_15.6	15.6	58	300	1.9	2200	4500	32	300	1.1	2200	5500	
C 32 2_18.2	18.2	50	300	1.6	2200	4810	27.5	300	0.91	2200	5500	
C 32 2_20.1	20.1	45	300	1.5	2200	5030	24.9	300	0.82	2200	5500	
C 32 2_22.9	22.9	39	300	1.3	2200	5300	21.8	300	0.72	2200	5500	
C 32 2_25.1	25.1	36	300	1.2	2200	5500	19.9	300	0.66	2200	5500	
C 32 2_26.9	26.9	33	300	1.1	2200	5500	18.6	300	0.61	2200	5500	
C 32 2_29.8	29.8	30	300	1.0	2200	5500	16.8	300	0.56	2200	5500	
C 32 2_33.1	33.1	27.2	300	0.90	2200	5500	15.1	300	0.50	2200	5500	
C 32 2_36.1	36.1	24.9	300	0.82	2200	5500	13.9	300	0.46	2200	5500	
C 32 2_40.7	40.7	22.1	300	0.73	2200	5500	12.3	300	0.41	2200	5500	
C 32 2_45.3	45.3	19.9	300	0.66	2200	5500	11.0	300	0.37	2200	5500	
C 32 2_52.4	52.4	17.2	300	0.57	2200	5500	9.5	300	0.32	2200	5500	
C 32 2_59.4	59.4	15.2	220	0.37	2200	5500	8.4	230	0.21	2200	5500	
C 32 2_66.8	66.8	13.5	220	0.33	2200	5500	7.5	230	0.19	2200	5500	
C 32 3_74.7	74.7	12.0	290	0.38	1300	5500	6.7	300	0.22	1300	5500	
C 32 3_82.6	82.6	10.9	300	0.36	1300	5500	6.1	300	0.20	1300	5500	
C 32 3_94.2	94.2	9.6	300	0.32	1300	5500	5.3	300	0.18	1300	5500	
C 32 3_103.3	103.3	8.7	300	0.29	1300	5500	4.8	300	0.16	1300	5500	
C 32 3_110.6	110.6	8.1	300	0.27	1300	5500	4.5	300	0.15	1300	5500	
C 32 3_122.4	122.4	7.4	300	0.24	1300	5500	4.1	300	0.14	1300	5500	
C 32 3_136.0	136.0	6.6	300	0.22	1300	5500	3.7	300	0.12	1300	5500	
C 32 3_148.4	148.4	6.1	300	0.20	1300	5500	3.4	300	0.11	1300	5500	
C 32 3_167.4	167.4	5.4	300	0.18	1300	5500	3.0	300	0.10	1300	5500	
C 32 3_186.0	186.0	4.8	300	0.16	1300	5500	2.7	300	0.09	1300	5500	
C 32 3_215.6	215.6	4.2	300	0.14	1300	5500	2.3	300	0.08	1300	5500	
C 32 3_244.2	244.2	3.7	260	0.11	1300	5500	2.0	275	0.06	1300	5500	
C 32 3_274.7	274.7	3.3	260	0.09	1300	5500	1.8	275	0.06	1300	5500	



C 36

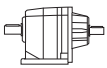
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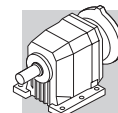
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		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 36 2_2.7	2.7	1042	140	16.1	670	1750	521	170	9.8	1150	2240	143
C 36 2_3.2	3.2	880	145	14.1	790	1870	440	177	8.6	1240	2380	
C 36 2_3.5	3.5	803	150	13.3	910	1920	402	185	8.2	1320	2440	
C 36 2_4.2	4.2	667	157	11.5	920	2050	333	192	7.1	1410	2620	
C 36 2_4.6	4.6	606	165	11.0	920	2110	303	200	6.7	1470	2700	
C 36 2_5.3	5.3	530	167	9.8	990	2230	265	200	5.8	1650	2870	
C 36 2_5.8	5.8	479	170	9.0	1160	2330	239	200	5.3	1990	3020	
C 36 2_6.8	6.8	413	285	13.0	1750	2130	206	355	8.1	2220	2710	
C 36 2_8.0	8.0	349	297	11.4	1770	2270	174	365	7.0	2250	2910	
C 36 2_8.8	8.8	318	310	10.9	1780	2330	159	380	6.7	2270	3000	
C 36 2_10.6	10.6	264	325	9.5	1790	2500	132	380	5.5	2320	3290	
C 36 2_11.7	11.7	240	340	9.0	1790	2560	120	380	5.0	2370	3460	
C 36 2_13.3	13.3	210	350	8.1	1800	2700	105	380	4.4	2400	3670	
C 36 2_14.8	14.8	190	360	7.5	1800	2810	95	380	4.0	2440	3890	
C 36 2_17.2	17.2	163	370	6.6	1810	3000	81	380	3.4	2460	4200	
C 36 2_19.0	19.0	147	380	6.2	1820	3110	74	380	3.1	2500	4400	
C 36 3_22.1	22.1	127	340	4.7	2300	3570	63	430	3.0	2900	4490	
C 36 3_26.2	26.2	107	355	4.2	2300	3790	53	440	2.6	2910	4810	
C 36 3_28.7	28.7	98	385	4.1	2300	3820	49	450	2.4	2930	4980	
C 36 3_34.6	34.6	81	400	3.6	2300	4100	40	450	2.0	2950	5420	
C 36 3_38.1	38.1	74	435	3.5	2300	4140	37	450	1.8	2970	5690	
C 36 3_43.5	43.5	64	440	3.1	2300	4450	32	450	1.6	2980	6050	
C 36 3_48.2	48.2	58	450	2.9	2310	4580	29.1	450	1.4	2990	6330	
C 36 3_56.2	56.2	50	450	2.5	2320	4970	24.9	450	1.2	2990	6500	
C 36 3_62.0	62.0	45	450	2.2	2330	5170	22.6	450	1.1	3000	6500	
C 36 3_70.8	70.8	40	450	2.0	2340	5520	19.8	450	0.98	3000	6500	
C 36 3_77.6	77.6	36	450	1.8	2350	5740	18.0	450	0.90	3000	6500	
C 36 3_83.1	83.1	34	450	1.7	2350	5930	16.8	450	0.84	3000	6500	
C 36 3_91.9	91.9	30	450	1.5	2360	6200	15.2	450	0.76	3000	6500	
C 36 3_102.2	102.2	27.4	450	1.4	2360	6400	13.7	450	0.68	3000	6500	
C 36 3_111.5	111.5	25.1	450	1.2	2360	6500	12.6	450	0.62	3000	6500	
C 36 3_125.8	125.8	22.3	450	1.1	2370	6500	11.1	450	0.55	3000	6500	
C 36 3_139.8	139.8	20.0	450	0.99	2370	6500	10.0	450	0.50	3000	6500	
C 36 3_162.0	162.0	17.3	450	0.86	2380	6500	8.6	450	0.43	3000	6500	
C 36 3_183.5	183.5	15.3	450	0.76	2380	6500	7.6	450	0.38	3000	6500	
C 36 3_206.4	206.4	13.6	450	0.67	2380	6500	6.8	450	0.34	3000	6500	
C 36 4_230.9	230.9	12.1	450	0.60	1150	6500	6.1	450	0.30	1300	6500	
C 36 4_255.0	255.0	11.0	450	0.54	1190	6500	5.5	450	0.27	1300	6500	
C 36 4_290.9	290.9	9.6	450	0.48	1210	6500	4.8	450	0.24	1300	6500	
C 36 4_318.9	318.9	8.8	450	0.44	1230	6500	4.4	450	0.22	1300	6500	
C 36 4_341.7	341.7	8.2	450	0.41	1240	6500	4.1	450	0.20	1300	6500	
C 36 4_377.9	377.9	7.4	450	0.37	1260	6500	3.7	450	0.18	1300	6500	
C 36 4_420.2	420.2	6.7	450	0.33	1270	6500	3.3	450	0.17	1300	6500	
C 36 4_458.4	458.4	6.1	450	0.30	1280	6500	3.1	450	0.15	1300	6500	
C 36 4_517.2	517.2	5.4	450	0.27	1300	6500	2.7	450	0.13	1300	6500	
C 36 4_574.7	574.7	4.9	450	0.24	1300	6500	2.4	450	0.12	1300	6500	
C 36 4_665.9	665.9	4.2	450	0.21	1300	6500	2.1	450	0.10	1300	6500	
C 36 4_754.2	754.2	3.7	450	0.18	1300	6500	1.9	450	0.09	1300	6500	
C 36 4_848.5	848.5	3.3	450	0.16	1300	6500	1.6	450	0.08	1300	6500	



C 36

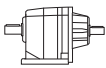
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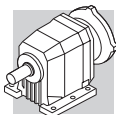
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		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 36 2_2.7	2.7	335	190	7.0	1670	2640	186	200	4.1	3000	3390	143
C 36 2_3.2	3.2	283	190	5.9	2080	2790	157	200	3.5	3000	3650	
C 36 2_3.5	3.5	258	200	5.7	2160	2920	143	200	3.2	3000	3810	
C 36 2_4.2	4.2	214	200	4.7	2410	3170	119	200	2.6	3000	4100	
C 36 2_4.6	4.6	195	200	4.3	2590	3320	108	200	2.4	3000	4300	
C 36 2_5.3	5.3	171	200	3.8	2630	3500	95	200	2.1	3000	4520	
C 36 2_5.8	5.8	154	200	3.4	2680	3690	86	200	1.9	3000	4740	
C 36 2_6.8	6.8	133	380	5.6	2660	3290	74	380	3.1	3000	4400	
C 36 2_8.0	8.0	112	380	4.7	2720	3580	62	380	2.6	3000	4750	
C 36 2_8.8	8.8	102	380	4.3	2790	3750	57	380	2.4	3000	4960	
C 36 2_10.6	10.6	85	380	3.6	2850	4110	47	380	2.0	3000	5360	
C 36 2_11.7	11.7	77	380	3.2	2900	4300	43	380	1.8	3000	5630	
C 36 2_13.3	13.3	68	380	2.8	2930	4590	38	380	1.6	3000	5930	
C 36 2_14.8	14.8	61	380	2.6	2970	4800	34	380	1.4	3000	6240	
C 36 2_17.2	17.2	52	380	2.2	2980	5100	29.1	380	1.2	3000	6330	
C 36 2_19.0	19.0	47	380	2.0	3000	5390	26.3	380	1.1	3000	6500	
C 36 3_22.1	22.1	41	450	2.0	3000	5430	22.6	450	1.1	3000	6500	
C 36 3_26.2	26.2	34	450	1.7	3000	5850	19.1	450	0.95	3000	6500	
C 36 3_28.7	28.7	31	450	1.6	3000	6120	17.4	450	0.86	3000	6500	
C 36 3_34.6	34.6	26.0	450	1.3	3000	6500	14.5	450	0.72	3000	6500	
C 36 3_38.1	38.1	23.6	450	1.2	3000	6500	13.1	450	0.65	3000	6500	
C 36 3_43.5	43.5	20.7	450	1.0	3000	6500	11.5	450	0.57	3000	6500	
C 36 3_48.2	48.2	18.7	450	0.93	3000	6500	10.4	450	0.52	3000	6500	
C 36 3_56.2	56.2	16.0	450	0.79	3000	6500	8.9	450	0.44	3000	6500	
C 36 3_62.0	62.0	14.5	450	0.72	3000	6500	8.1	450	0.40	3000	6500	
C 36 3_70.8	70.8	12.7	450	0.63	3000	6500	7.1	450	0.35	3000	6500	
C 36 3_77.6	77.6	11.6	450	0.58	3000	6500	6.4	450	0.32	3000	6500	
C 36 3_83.1	83.1	10.8	450	0.54	3000	6500	6.0	450	0.30	3000	6500	
C 36 3_91.9	91.9	9.8	450	0.49	3000	6500	5.4	450	0.27	3000	6500	
C 36 3_102.2	102.2	8.8	450	0.44	3000	6500	4.9	450	0.24	3000	6500	
C 36 3_111.5	111.5	8.1	450	0.40	3000	6500	4.5	450	0.22	3000	6500	
C 36 3_125.8	125.8	7.2	450	0.35	3000	6500	4.0	450	0.20	3000	6500	
C 36 3_139.8	139.8	6.4	450	0.32	3000	6500	3.6	450	0.18	3000	6500	
C 36 3_162.0	162.0	5.6	450	0.28	3000	6500	3.1	450	0.15	3000	6500	
C 36 3_183.5	183.5	4.9	450	0.24	3000	6500	2.7	450	0.14	3000	6500	
C 36 3_206.4	206.4	4.4	450	0.22	3000	6500	2.4	450	0.12	3000	6500	
C 36 4_230.9	230.9	3.9	450	0.19	1300	6500	2.2	450	0.11	1300	6500	
C 36 4_255.0	255.0	3.5	450	0.18	1300	6500	2.0	450	0.10	1300	6500	
C 36 4_290.9	290.9	3.1	450	0.15	1300	6500	1.7	450	0.09	1300	6500	
C 36 4_318.9	318.9	2.8	450	0.14	1300	6500	1.6	450	0.08	1300	6500	
C 36 4_341.7	341.7	2.6	450	0.13	1300	6500	1.5	450	0.07	1300	6500	
C 36 4_377.9	377.9	2.4	450	0.12	1300	6500	1.3	450	0.07	1300	6500	
C 36 4_420.2	420.2	2.1	450	0.11	1300	6500	1.2	450	0.06	1300	6500	
C 36 4_458.4	458.4	2.0	450	0.10	1300	6500	1.1	450	0.05	1300	6500	
C 36 4_517.2	517.2	1.7	450	0.09	1300	6500	1.0	450	0.05	1300	6500	
C 36 4_574.7	574.7	1.6	450	0.08	1300	6500	0.9	450	0.04	1300	6500	
C 36 4_665.9	665.9	1.4	450	0.07	1300	6500	0.8	450	0.04	1300	6500	
C 36 4_754.2	754.2	1.2	450	0.06	1300	6500	0.7	450	0.03	1300	6500	
C 36 4_848.5	848.5	1.1	450	0.05	1300	6500	0.6	450	0.03	1300	6500	



C 41

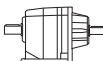
600 Nm

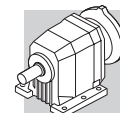
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 41 2_2.7	2.7	1037	245	28	980	1290	519	245	14.0	1390	2060	147
C 41 2_3.6	3.6	778	255	22	1070	1540	389	255	10.9	1650	2390	
C 41 2_4.7	4.7	596	260	17.1	1170	1800	298	260	8.5	2010	2730	
C 41 2_6.0	6.0	467	260	13.4	1290	2100	233	260	6.7	2400	3110	
C 41 2_6.4	6.4	438	275	13.3	2270	2590	219	345	8.3	2860	3260	
C 41 2_7.1	7.1	394	285	12.4	2360	2700	197	355	7.7	2980	3420	
C 41 2_8.6	8.6	326	305	10.9	2300	2860	163	385	6.9	2900	3600	
C 41 2_9.6	9.6	292	310	10.0	2410	3010	146	390	6.3	3030	3800	
C 41 2_11.2	11.2	250	335	9.2	2310	3100	125	420	5.8	2910	3920	
C 41 2_12.4	12.4	226	340	8.5	2440	3270	113	425	5.3	3070	4140	
C 41 2_14.2	14.2	197	355	7.7	2330	3410	99	445	4.8	2980	4300	
C 41 2_15.8	15.8	177	360	7.0	2460	3590	89	450	4.4	3120	4540	
C 41 2_17.8	17.8	157	380	6.6	2330	3680	79	480	4.2	3050	4630	
C 41 2_19.8	19.8	141	385	6.0	2460	3880	71	485	3.8	3180	4890	
C 41 2_22.6	22.6	124	410	5.6	2320	3990	62	500	3.4	3110	5110	
C 41 2_25.0	25.0	112	415	5.1	2460	4210	56	500	3.1	3230	5420	
C 41 2_28.3	28.3	99	445	4.9	2310	4290	49	500	2.7	3180	5710	
C 41 2_31.4	31.4	89	445	4.4	2440	4550	45	500	2.5	3300	6040	
C 41 2_33.4	33.4	84	465	4.3	2390	4560	42	500	2.3	3220	6170	
C 41 2_37.1	37.1	75	470	3.9	2440	4810	38	500	2.1	3320	6520	
C 41 2_44.8	44.8	63	500	3.4	2660	5130	31	500	1.7	3500	7000	
C 41 3_28.5	28.5	98	445	4.9	3060	4300	49	560	3.1	3500	5420	
C 41 3_31.2	31.2	90	450	4.5	3090	4510	45	570	2.9	3500	5670	
C 41 3_36.8	36.8	76	480	4.1	3070	4710	38	600	2.6	3500	5960	
C 41 3_40.3	40.3	69	485	3.8	3100	4940	35	600	2.3	3500	6280	
C 41 3_47.0	47.0	60	515	3.5	3070	5140	29.8	600	2.0	3500	6720	
C 41 3_51.5	51.5	54	525	3.2	3090	5360	27.2	600	1.8	3500	7000	
C 41 3_58.7	58.7	48	550	3.0	3070	5550	23.9	600	1.6	3500	7000	
C 41 3_64.3	64.3	44	560	2.7	3090	5800	21.8	600	1.5	3500	7000	
C 41 3_74.4	74.4	38	590	2.5	3060	6040	18.8	600	1.3	3500	7000	
C 41 3_81.5	81.5	34	600	2.3	3090	6310	17.2	600	1.2	3500	7000	
C 41 3_93.3	93.3	30	600	2.0	3080	6700	15.0	600	1.0	3500	7000	
C 41 3_102.3	102.3	27.4	600	1.8	3110	7000	13.7	600	0.92	3500	7000	
C 41 3_110.1	110.1	25.4	600	1.7	3090	7000	12.7	600	0.86	3500	7000	
C 41 3_120.6	120.6	23.2	600	1.6	3110	7000	11.6	600	0.78	3500	7000	
C 41 3_132.9	132.9	21.1	600	1.4	3090	7000	10.5	600	0.71	3500	7000	
C 41 3_145.6	145.6	19.2	600	1.3	3120	7000	9.6	600	0.65	3500	7000	
C 41 3_164.1	164.1	17.1	600	1.2	3100	7000	8.5	600	0.58	3500	7000	
C 41 3_179.9	179.9	15.6	600	1.1	3120	7000	7.8	600	0.53	3500	7000	
C 41 3_190.8	190.8	14.7	600	0.99	3110	7000	7.3	600	0.50	3500	7000	
C 41 3_209.1	209.1	13.4	600	0.90	3130	7000	6.7	600	0.45	3500	7000	
C 41 4_239.9	239.9	11.7	600	0.81	1480	7000	5.8	600	0.40	1910	7000	
C 41 4_263.0	263.0	10.6	600	0.74	1500	7000	5.3	600	0.37	1920	7000	
C 41 4_304.2	304.2	9.2	600	0.64	1520	7000	4.6	600	0.32	1950	7000	
C 41 4_333.4	333.4	8.4	600	0.58	1530	7000	4.2	600	0.29	1960	7000	
C 41 4_381.8	381.8	7.3	600	0.51	1540	7000	3.7	600	0.25	1970	7000	
C 41 4_418.5	418.5	6.7	600	0.46	1550	7000	3.3	600	0.23	1980	7000	
C 41 4_450.2	450.2	6.2	600	0.43	1560	7000	3.1	600	0.21	1990	7000	
C 41 4_493.5	493.5	5.7	600	0.39	1570	7000	2.8	600	0.20	2000	7000	
C 41 4_543.5	543.5	5.2	600	0.36	1570	7000	2.6	600	0.18	2000	7000	
C 41 4_595.8	595.8	4.7	600	0.32	1580	7000	2.3	600	0.16	2010	7000	
C 41 4_671.3	671.3	4.2	600	0.29	1590	7000	2.1	600	0.14	2020	7000	
C 41 4_735.9	735.9	3.8	600	0.26	1590	7000	1.9	600	0.13	2020	7000	
C 41 4_780.4	780.4	3.6	600	0.25	1600	7000	1.8	600	0.12	2030	7000	
C 41 4_855.5	855.5	3.3	600	0.23	1600	7000	1.6	600	0.11	2030	7000	



C 41

600 Nm

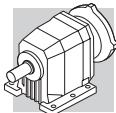
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		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 41 2_2.7	2.7	333	245	9.0	2560	2650	185	245	5.0	3500	3590	147
C 41 2_3.6	3.6	250	255	7.0	2710	3050	139	255	3.9	3500	4090	
C 41 2_4.7	4.7	191	260	5.5	2900	3440	106	260	3.0	3500	4570	
C 41 2_6.0	6.0	150	260	4.3	3080	3890	83	260	2.4	3500	5110	
C 41 2_6.4	6.4	141	400	6.2	3310	3780	78	490	4.2	3500	4580	
C 41 2_7.1	7.1	127	415	5.8	3460	3940	70	500	3.9	3500	4820	
C 41 2_8.6	8.6	105	445	5.1	3360	4180	58	500	3.2	3500	5290	
C 41 2_9.6	9.6	94	450	4.7	3500	4410	52	500	2.9	3500	5600	
C 41 2_11.2	11.2	80	490	4.3	3500	4520	45	500	2.5	3500	5980	
C 41 2_12.4	12.4	73	495	4.0	3500	4780	40	500	2.2	3500	6320	
C 41 2_14.2	14.2	63	500	3.5	3500	5060	35	500	1.9	3500	6700	
C 41 2_15.8	15.8	57	500	3.1	3500	5370	32	500	1.7	3500	7000	
C 41 2_17.8	17.8	51	500	2.8	3500	5650	28.1	500	1.5	3500	7000	
C 41 2_19.8	19.8	45	500	2.5	3500	5970	25.3	500	1.4	3500	7000	
C 41 2_22.6	22.6	40	500	2.2	3500	6320	22.1	500	1.2	3500	7000	
C 41 2_25.0	25.0	36	500	2.0	3500	6670	20.0	500	1.1	3500	7000	
C 41 2_28.3	28.3	32	500	1.8	3500	7000	17.7	500	0.97	3500	7000	
C 41 2_31.4	31.4	28.7	500	1.6	3500	7000	15.9	500	0.88	3500	7000	
C 41 2_33.4	33.4	26.9	500	1.5	3500	7000	15.0	500	0.83	3500	7000	
C 41 2_37.1	37.1	24.3	500	1.3	3500	7000	13.5	500	0.74	3500	7000	
C 41 2_44.8	44.8	20.1	500	1.1	3500	7000	11.2	500	0.62	3500	7000	
C 41 3_28.5	28.5	32	600	2.1	3500	6530	17.5	600	1.2	3500	7000	
C 41 3_31.2	31.2	28.8	600	1.9	3500	6870	16.0	600	1.1	3500	7000	
C 41 3_36.8	36.8	24.5	600	1.7	3500	7000	13.6	600	0.92	3500	7000	
C 41 3_40.3	40.3	22.3	600	1.5	3500	7000	12.4	600	0.84	3500	7000	
C 41 3_47.0	47.0	19.1	600	1.3	3500	7000	10.6	600	0.72	3500	7000	
C 41 3_51.5	51.5	17.5	600	1.2	3500	7000	9.7	600	0.66	3500	7000	
C 41 3_58.7	58.7	15.3	600	1.0	3500	7000	8.5	600	0.58	3500	7000	
C 41 3_64.3	64.3	14.0	600	0.95	3500	7000	7.8	600	0.53	3500	7000	
C 41 3_74.4	74.4	12.1	600	0.82	3500	7000	6.7	600	0.45	3500	7000	
C 41 3_81.5	81.5	11.0	600	0.75	3500	7000	6.1	600	0.41	3500	7000	
C 41 3_93.3	93.3	9.6	600	0.65	3500	7000	5.4	600	0.36	3500	7000	
C 41 3_102.3	102.3	8.8	600	0.59	3500	7000	4.9	600	0.33	3500	7000	
C 41 3_110.1	110.1	8.2	600	0.55	3500	7000	4.5	600	0.31	3500	7000	
C 41 3_120.6	120.6	7.5	600	0.50	3500	7000	4.1	600	0.28	3500	7000	
C 41 3_132.9	132.9	6.8	600	0.46	3500	7000	3.8	600	0.25	3500	7000	
C 41 3_145.6	145.6	6.2	600	0.42	3500	7000	3.4	600	0.23	3500	7000	
C 41 3_164.1	164.1	5.5	600	0.37	3500	7000	3.0	600	0.21	3500	7000	
C 41 3_179.9	179.9	5.0	600	0.34	3500	7000	2.8	600	0.19	3500	7000	
C 41 3_190.8	190.8	4.7	600	0.32	3500	7000	2.6	600	0.18	3500	7000	
C 41 3_209.1	209.1	4.3	600	0.29	3500	7000	2.4	600	0.16	3500	7000	
C 41 4_239.9	239.9	3.8	600	0.26	2200	7000	2.1	600	0.14	2200	7000	
C 41 4_263.0	263.0	3.4	600	0.24	2200	7000	1.9	600	0.13	2200	7000	
C 41 4_304.2	304.2	3.0	600	0.20	2200	7000	1.6	600	0.11	2200	7000	
C 41 4_333.4	333.4	2.7	600	0.19	2200	7000	1.5	600	0.10	2200	7000	
C 41 4_381.8	381.8	2.4	600	0.16	2200	7000	1.3	600	0.09	2200	7000	
C 41 4_418.5	418.5	2.2	600	0.15	2200	7000	1.2	600	0.08	2200	7000	
C 41 4_450.2	450.2	2.0	600	0.14	2200	7000	1.1	600	0.08	2200	7000	
C 41 4_493.5	493.5	1.8	600	0.13	2200	7000	1.0	600	0.07	2200	7000	
C 41 4_543.5	543.5	1.7	600	0.11	2200	7000	0.92	600	0.06	2200	7000	
C 41 4_595.8	595.8	1.5	600	0.10	2200	7000	0.84	600	0.06	2200	7000	
C 41 4_671.3	671.3	1.3	600	0.09	2200	7000	0.74	600	0.05	2200	7000	
C 41 4_735.9	735.9	1.2	600	0.08	2200	7000	0.68	600	0.05	2200	7000	
C 41 4_780.4	780.4	1.2	600	0.08	2200	7000	0.64	600	0.04	2200	7000	
C 41 4_855.5	855.5	1.1	600	0.07	2200	7000	0.58	600	0.04	2200	7000	



C 51

1000 Nm

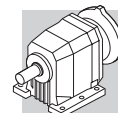
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		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 51 2_2.6	2.6	1077	315	37	980	3340	538	400	24	1390	4200	151
C 51 2_3.3	3.3	848	340	32	1070	3610	424	420	19.6	1650	4580	
C 51 2_4.5	4.5	622	370	25	1170	4010	311	435	14.9	2010	5180	
C 51 2_5.6	5.6	500	390	21	1290	4380	250	435	12.0	2400	5760	
C 51 2_7.0	7.0	400	500	22	2270	4760	200	630	13.9	2860	6000	
C 51 2_7.8	7.8	359	510	20	2360	4940	179	640	12.7	2980	6230	
C 51 2_8.8	8.8	318	545	19.1	2300	5120	159	685	12.0	2900	6450	
C 51 2_9.8	9.8	286	545	17.2	2410	5350	143	685	10.8	3030	6750	
C 51 2_11.8	11.8	237	610	16.0	2310	5620	119	770	10.1	2910	7080	
C 51 2_13.1	13.1	214	595	14.0	2440	5930	107	750	8.8	3070	7470	
C 51 2_15.0	15.0	187	660	13.6	2330	6080	93	800	8.2	2980	7770	
C 51 2_16.6	16.6	169	640	11.9	2460	6420	84	795	7.4	3120	8130	
C 51 2_18.9	18.9	148	695	11.3	2330	6630	74	800	6.5	3050	8620	
C 51 2_21.0	21.0	133	675	9.9	2460	7000	67	795	5.8	3180	9020	
C 51 2_23.4	23.4	120	735	9.7	2320	7160	60	800	5.3	3110	9460	
C 51 2_25.9	25.9	108	715	8.5	2460	7550	54	795	4.7	3230	9890	
C 51 2_29.8	29.8	94	795	8.2	2310	7770	47	800	4.1	3180	10000	
C 51 2_33.0	33.0	85	775	7.2	2440	8190	42	795	3.7	3300	10000	
C 51 2_36.4	36.4	77	750	6.4	2390	8660	38	790	3.3	3220	10000	
C 51 2_40.4	40.4	69	795	6.1	2440	8870	35	795	3.0	3320	10000	
C 51 2_43.1	43.1	65	730	5.2	2450	9380	32	770	2.8	3280	10000	
C 51 2_47.8	47.8	59	800	5.2	2460	9530	29.3	800	2.6	3350	10000	
C 51 2_51.4	51.4	54	665	4.0	2550	10000	27.2	700	2.1	3390	10000	
C 51 2_57.0	57.0	49	745	4.0	2540	10000	24.6	785	2.1	3380	10000	
C 51 3_21.8	21.8	128	720	10.4	2870	6940	64	905	6.5	3500	8750	
C 51 3_23.9	23.9	117	730	9.6	2910	7230	59	920	6.1	3500	9110	
C 51 3_27.4	27.4	102	770	8.9	2890	7510	51	970	5.6	3500	9470	
C 51 3_30.1	30.1	93	780	8.2	2930	7830	47	1000	5.2	3500	9810	
C 51 3_37.0	37.0	76	840	7.2	2910	8330	38	1000	4.3	3500	10000	
C 51 3_40.5	40.5	69	855	6.7	2940	8670	35	1000	3.9	3500	10000	
C 51 3_46.7	46.7	60	905	6.1	2920	9020	30	1000	3.4	3500	10000	
C 51 3_51.2	51.2	55	920	5.7	2950	9390	27.3	1000	3.1	3500	10000	
C 51 3_59.0	59.0	47	970	5.2	2910	9780	23.7	1000	2.7	3500	10000	
C 51 3_64.6	64.6	43	1000	4.9	2940	10000	21.7	1000	2.4	3500	10000	
C 51 3_72.9	72.9	38	1000	4.3	2920	10000	19.2	1000	2.2	3500	10000	
C 51 3_79.9	79.9	35	1000	3.9	2960	10000	17.5	1000	2.0	3500	10000	
C 51 3_93.0	93.0	30	1000	3.4	2950	10000	15.1	1000	1.7	3500	10000	
C 51 3_101.8	101.8	27.5	1000	3.1	2990	10000	13.8	1000	1.5	3500	10000	
C 51 3_113.6	113.6	24.6	1000	2.8	2960	10000	12.3	1000	1.4	3500	10000	
C 51 3_124.4	124.4	22.5	1000	2.5	3000	10000	11.3	1000	1.3	3500	10000	
C 51 3_134.6	134.6	20.8	1000	2.3	2970	10000	10.4	1000	1.2	3500	10000	
C 51 3_147.4	147.4	19.0	1000	2.1	3010	10000	9.5	1000	1.1	3500	10000	
C 51 3_160.5	160.5	17.4	1000	2.0	2980	10000	8.7	1000	0.98	3500	10000	
C 51 3_175.8	175.8	15.9	1000	1.8	3020	10000	8.0	1000	0.90	3500	10000	
C 51 3_197.9	197.9	14.1	1000	1.6	2980	10000	7.1	1000	0.80	3500	10000	
C 51 3_216.7	216.7	12.9	1000	1.5	3020	10000	6.5	1000	0.73	3500	10000	
C 51 4_240.9	240.9	11.6	1000	1.3	2100	10000	5.8	1000	0.67	2200	10000	
C 51 4_263.8	263.8	10.6	1000	1.2	2120	10000	5.3	1000	0.61	2200	10000	
C 51 4_297.8	297.8	9.4	1000	1.1	2140	10000	4.7	1000	0.54	2200	10000	
C 51 4_326.1	326.1	8.6	1000	0.99	2160	10000	4.3	1000	0.49	2200	10000	
C 51 4_379.6	379.6	7.4	1000	0.85	2190	10000	3.7	1000	0.42	2200	10000	
C 51 4_415.7	415.7	6.7	1000	0.78	2200	10000	3.4	1000	0.39	2200	10000	
C 51 4_463.9	463.9	6.0	1000	0.69	2200	10000	3.0	1000	0.35	2200	10000	
C 51 4_508.0	508.0	5.5	1000	0.63	2200	10000	2.8	1000	0.32	2200	10000	
C 51 4_549.7	549.7	5.1	1000	0.59	2200	10000	2.5	1000	0.29	2200	10000	
C 51 4_602.0	602.0	4.7	1000	0.54	2200	10000	2.3	1000	0.27	2200	10000	
C 51 4_655.4	655.4	4.3	1000	0.49	2200	10000	2.1	1000	0.25	2200	10000	
C 51 4_717.7	717.7	3.9	1000	0.45	2200	10000	2.0	1000	0.22	2200	10000	
C 51 4_808.0	808.0	3.5	1000	0.40	2200	10000	1.7	1000	0.20	2200	10000	
C 51 4_884.9	884.9	3.2	1000	0.36	2200	10000	1.6	1000	0.18	2200	10000	



C 51

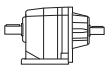
1000 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 51 2_2.6	2.6	346	400	15.3	2560	5130	192	400	8.5	3500	6620	151
C 51 2_3.3	3.3	273	420	12.6	2710	5590	152	420	7.0	3500	7200	
C 51 2_4.5	4.5	200	435	9.6	2900	6300	111	435	5.3	3500	8070	
C 51 2_5.6	5.6	161	435	7.7	3080	6970	89	435	4.3	3500	8880	
C 51 2_7.0	7.0	129	730	10.3	3310	6950	71	800	6.3	3500	8760	
C 51 2_7.8	7.8	115	740	9.4	3460	7220	64	800	5.7	3500	9140	
C 51 2_8.8	8.8	102	795	9.0	3360	7470	57	800	5.0	3500	9680	
C 51 2_9.8	9.8	92	800	8.1	3500	7790	51	800	4.5	3500	10000	
C 51 2_11.8	11.8	76	800	6.7	3500	8530	42	800	3.7	3500	10000	
C 51 2_13.1	13.1	69	800	6.1	3500	8900	38	800	3.4	3500	10000	
C 51 2_15.0	15.0	60	800	5.3	3500	9450	33	800	2.9	3500	10000	
C 51 2_16.6	16.6	54	800	4.8	3500	9850	30	800	2.7	3500	10000	
C 51 2_18.9	18.9	48	800	4.2	3500	10000	26.5	800	2.3	3500	10000	
C 51 2_21.0	21.0	43	800	3.8	3500	10000	23.8	800	2.1	3500	10000	
C 51 2_23.4	23.4	38	800	3.4	3500	10000	21.4	800	1.9	3500	10000	
C 51 2_25.9	25.9	35	800	3.1	3500	10000	19.3	800	1.7	3500	10000	
C 51 2_29.8	29.8	30	800	2.7	3500	10000	16.8	800	1.5	3500	10000	
C 51 2_33.0	33.0	27.3	800	2.4	3500	10000	15.2	800	1.3	3500	10000	
C 51 2_36.4	36.4	24.7	800	2.2	3500	10000	13.7	800	1.2	3500	10000	
C 51 2_40.4	40.4	22.3	800	2.0	3500	10000	12.4	800	1.1	3500	10000	
C 51 2_43.1	43.1	20.9	800	1.8	3500	10000	11.6	800	1.0	3500	10000	
C 51 2_47.8	47.8	18.8	800	1.7	3500	10000	10.5	800	0.92	3500	10000	
C 51 2_51.4	51.4	17.5	725	1.4	3500	10000	9.7	755	0.81	3500	10000	
C 51 2_57.0	57.0	15.8	795	1.4	3500	10000	8.8	795	0.77	3500	10000	
C 51 3_21.8	21.8	41	1000	4.6	3500	10000	22.9	1000	2.6	3500	10000	
C 51 3_23.9	23.9	38	1000	4.2	3500	10000	20.9	1000	2.4	3500	10000	
C 51 3_27.4	27.4	33	1000	3.7	3500	10000	18.2	1000	2.1	3500	10000	
C 51 3_30.1	30.1	29.9	1000	3.4	3500	10000	16.6	1000	1.9	3500	10000	
C 51 3_37.0	37.0	24.3	1000	2.7	3500	10000	13.5	1000	1.5	3500	10000	
C 51 3_40.5	40.5	22.2	1000	2.5	3500	10000	12.3	1000	1.4	3500	10000	
C 51 3_46.7	46.7	19.3	1000	2.2	3500	10000	10.7	1000	1.2	3500	10000	
C 51 3_51.2	51.2	17.6	1000	2.0	3500	10000	9.8	1000	1.1	3500	10000	
C 51 3_59.0	59.0	15.3	1000	1.7	3500	10000	8.5	1000	0.95	3500	10000	
C 51 3_64.6	64.6	13.9	1000	1.6	3500	10000	7.7	1000	0.87	3500	10000	
C 51 3_72.9	72.9	12.3	1000	1.4	3500	10000	6.9	1000	0.77	3500	10000	
C 51 3_79.9	79.9	11.3	1000	1.3	3500	10000	6.3	1000	0.70	3500	10000	
C 51 3_93.0	93.0	9.7	1000	1.1	3500	10000	5.4	1000	0.61	3500	10000	
C 51 3_101.8	101.8	8.8	1000	1.0	3500	10000	4.9	1000	0.55	3500	10000	
C 51 3_113.6	113.6	7.9	1000	0.89	3500	10000	4.4	1000	0.50	3500	10000	
C 51 3_124.4	124.4	7.2	1000	0.81	3500	10000	4.0	1000	0.45	3500	10000	
C 51 3_134.6	134.6	6.7	1000	0.75	3500	10000	3.7	1000	0.42	3500	10000	
C 51 3_147.4	147.4	6.1	1000	0.69	3500	10000	3.4	1000	0.38	3500	10000	
C 51 3_160.5	160.5	5.6	1000	0.63	3500	10000	3.1	1000	0.35	3500	10000	
C 51 3_175.8	175.8	5.1	1000	0.58	3500	10000	2.8	1000	0.32	3500	10000	
C 51 3_197.9	197.9	4.5	1000	0.51	3500	10000	2.5	1000	0.28	3500	10000	
C 51 3_216.7	216.7	4.2	1000	0.47	3500	10000	2.3	1000	0.26	3500	10000	
C 51 4_240.9	240.9	3.7	1000	0.43	2200	10000	2.1	1000	0.24	2200	10000	
C 51 4_263.8	263.8	3.4	1000	0.39	2200	10000	1.9	1000	0.22	2200	10000	
C 51 4_297.8	297.8	3.0	1000	0.35	2200	10000	1.7	1000	0.19	2200	10000	
C 51 4_326.1	326.1	2.8	1000	0.32	2200	10000	1.5	1000	0.18	2200	10000	
C 51 4_379.6	379.6	2.4	1000	0.27	2200	10000	1.3	1000	0.15	2200	10000	
C 51 4_415.7	415.7	2.2	1000	0.25	2200	10000	1.2	1000	0.14	2200	10000	
C 51 4_463.9	463.9	1.9	1000	0.22	2200	10000	1.1	1000	0.12	2200	10000	
C 51 4_508.0	508.0	1.8	1000	0.20	2200	10000	1.0	1000	0.11	2200	10000	
C 51 4_549.7	549.7	1.6	1000	0.19	2200	10000	0.91	1000	0.10	2200	10000	
C 51 4_602.0	602.0	1.5	1000	0.17	2200	10000	0.83	1000	0.10	2200	10000	
C 51 4_655.4	655.4	1.4	1000	0.16	2200	10000	0.76	1000	0.09	2200	10000	
C 51 4_717.7	717.7	1.3	1000	0.14	2200	10000	0.70	1000	0.08	2200	10000	
C 51 4_808.0	808.0	1.1	1000	0.13	2200	10000	0.62	1000	0.07	2200	10000	
C 51 4_884.9	884.9	1.0	1000	0.12	2200	10000	0.57	1000	0.07	2200	10000	

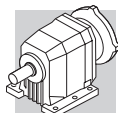


C 61

1600 Nm

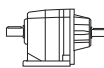
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 61 2_2.8	2.8	1000	445	49	—	4670	500	550	30	770	5930	155
C 61 2_3.7	3.7	757	530	44	—	4950	378	575	24	1730	6600	
C 61 2_4.6	4.6	609	575	39	—	5280	304	600	20	2150	7130	
C 61 2_6.0	6.0	467	575	30	—	6000	233	625	16.1	2700	7950	
C 61 2_6.7	6.7	418	900	41	2230	5600	209	1130	26	2850	7060	
C 61 2_7.5	7.5	373	1000	41	2220	5620	187	1250	26	2900	7110	
C 61 2_8.8	8.8	318	1000	35	2290	6080	159	1250	22	2980	7690	
C 61 2_9.8	9.8	286	1100	35	2380	6140	143	1350	21	3330	7850	
C 61 2_10.9	10.9	257	1050	30	2530	6590	128	1350	19.1	2940	8210	
C 61 2_12.1	12.1	231	1150	29	2670	6670	116	1350	17.2	3600	8730	
C 61 2_14.3	14.3	196	1150	25	2450	7220	98	1350	14.6	3590	9430	
C 61 2_15.9	15.9	176	1250	24	2660	7350	88	1350	13.1	3780	9990	
C 61 2_17.7	17.7	158	1200	21	2540	7850	79	1350	11.8	3700	10400	
C 61 2_19.6	19.6	143	1300	20	2780	8000	71	1350	10.6	3890	11000	
C 61 2_22.4	22.4	125	1250	17.2	2630	8650	63	1350	9.3	3810	11600	
C 61 2_24.8	24.8	113	1350	16.8	2840	8840	56	1350	8.4	3980	12300	
C 61 2_27.4	27.4	102	1300	14.6	2600	9390	51	1350	7.6	3880	12800	
C 61 2_30.4	30.4	92	1350	13.7	2900	9770	46	1350	6.9	4050	13500	
C 61 2_34.2	34.2	82	1165	10.5	3020	10900	41	1225	5.5	4090	14500	
C 61 2_38.0	38.0	74	1280	10.4	3030	11100	37	1350	5.5	4100	14800	
C 61 3_26.8	26.8	104	1140	13.4	3740	9810	52	1435	8.4	4700	12400	
C 61 3_29.4	29.4	95	1160	12.4	3780	10200	48	1465	7.9	4700	12900	
C 61 3_33.0	33.0	85	1210	11.6	3750	10600	42	1525	7.3	4700	13300	
C 61 3_36.1	36.1	78	1235	10.8	3800	11000	39	1555	6.8	4700	13800	
C 61 3_43.4	43.4	65	1315	9.6	3760	11600	32	1600	5.8	4700	14800	
C 61 3_47.6	47.6	59	1340	8.9	3810	12100	29.4	1600	5.3	4700	15500	
C 61 3_53.5	53.5	52	1400	8.2	3760	12500	26.2	1600	4.7	4700	16000	
C 61 3_58.6	58.6	48	1430	7.7	3810	13000	23.9	1600	4.3	4700	16000	
C 61 3_67.7	67.7	41	1505	7.0	3750	13500	20.7	1600	3.7	4700	16000	
C 61 3_74.2	74.2	38	1535	6.5	3800	14100	18.9	1600	3.4	4700	16000	
C 61 3_83.0	83.0	34	1600	6.1	3740	14500	16.9	1600	3.0	4700	16000	
C 61 3_91.0	91.0	31	1600	5.5	3800	15200	15.4	1600	2.8	4700	16000	
C 61 3_103.6	103.6	27.0	1600	4.9	3760	16000	13.5	1600	2.4	4700	16000	
C 61 3_113.6	113.6	24.6	1600	4.4	3820	16000	12.3	1600	2.2	4700	16000	
C 61 3_128.1	128.1	21.9	1600	3.9	3790	16000	10.9	1600	2.0	4700	16000	
C 61 3_140.5	140.5	19.9	1600	3.6	3840	16000	10.0	1600	1.8	4700	16000	
C 61 3_150.0	150.0	18.7	1600	3.4	3800	16000	9.3	1600	1.7	4700	16000	
C 61 3_164.5	164.5	17.0	1600	3.1	3850	16000	8.5	1600	1.5	4700	16000	
C 61 3_178.6	178.6	15.7	1600	2.8	3800	16000	7.8	1600	1.4	4700	16000	
C 61 3_195.8	195.8	14.3	1600	2.6	3860	16000	7.2	1600	1.3	4700	16000	
C 61 4_217.4	217.4	12.9	1600	2.4	3020	16000	6.4	1600	1.2	3500	16000	
C 61 4_238.3	238.3	11.7	1600	2.2	3060	16000	5.9	1600	1.1	3500	16000	
C 61 4_275.3	275.3	10.2	1600	1.9	3100	16000	5.1	1600	0.94	3500	16000	
C 61 4_301.7	301.7	9.3	1600	1.7	3130	16000	4.6	1600	0.85	3500	16000	
C 61 4_337.7	337.7	8.3	1600	1.5	3160	16000	4.1	1600	0.76	3500	16000	
C 61 4_370.1	370.1	7.6	1600	1.4	3180	16000	3.8	1600	0.70	3500	16000	
C 61 4_421.5	421.5	6.6	1600	1.2	3200	16000	3.3	1600	0.61	3500	16000	
C 61 4_462.0	462.0	6.1	1600	1.1	3220	16000	3.0	1600	0.56	3500	16000	
C 61 4_521.1	521.1	5.4	1600	0.99	3240	16000	2.7	1600	0.49	3500	16000	
C 61 4_571.2	571.2	4.9	1600	0.90	3250	16000	2.5	1600	0.45	3500	16000	
C 61 4_610.1	610.1	4.6	1600	0.84	3260	16000	2.3	1600	0.42	3500	16000	
C 61 4_668.8	668.8	4.2	1600	0.77	3280	16000	2.1	1600	0.39	3500	16000	
C 61 4_726.3	726.3	3.9	1600	0.71	3290	16000	1.9	1600	0.35	3500	16000	
C 61 4_796.1	796.1	3.5	1600	0.65	3300	16000	1.8	1600	0.32	3500	16000	

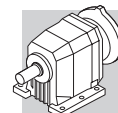
(—) Contactar con nuestro servicio técnico facilitando los datos relativos a la carga radial (sentido de giro, orientación y posición)



C 61

1600 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 61 2_2.8	2.8	321	565	20	2840	7150	179	665	13.1	4050	8790	155
C 61 2_3.7	3.7	243	625	16.8	3000	7800	135	665	9.9	4700	9860	
C 61 2_4.6	4.6	196	665	14.3	3170	8380	109	665	8.0	4700	10760	
C 61 2_6.0	6.0	150	665	11.0	4120	9440	83	665	6.1	4700	12000	
C 61 2_6.7	6.7	134	1350	20	2850	8050	75	1350	11.1	4700	10800	
C 61 2_7.5	7.5	120	1350	17.9	4010	8560	67	1350	9.9	4700	11400	
C 61 2_8.8	8.8	102	1350	15.2	4070	9240	57	1350	8.5	4700	12200	
C 61 2_9.8	9.8	92	1350	13.7	4310	9790	51	1350	7.6	4700	12900	
C 61 2_10.9	10.9	83	1350	12.3	4270	10200	46	1350	6.8	4700	13400	
C 61 2_12.1	12.1	74	1350	11.1	4480	10800	41	1350	6.1	4700	14100	
C 61 2_14.3	14.3	63	1350	9.4	4470	11600	35	1350	5.2	4700	15100	
C 61 2_15.9	15.9	57	1350	8.4	4660	12300	31	1350	4.7	4700	15900	
C 61 2_17.7	17.7	51	1350	7.6	4580	12800	28.2	1350	4.2	4700	16000	
C 61 2_19.6	19.6	46	1350	6.8	4700	13500	25.5	1350	3.8	4700	16000	
C 61 2_22.4	22.4	40	1350	6.0	4690	14200	22.3	1350	3.3	4700	16000	
C 61 2_24.8	24.8	36	1350	5.4	4700	14900	20.2	1350	3.0	4700	16000	
C 61 2_27.4	27.4	33	1350	4.9	4700	15500	18.2	1350	2.7	4700	16000	
C 61 2_30.4	30.4	29.6	1350	4.4	4700	16000	16.4	1350	2.4	4700	16000	
C 61 2_34.2	34.2	26.3	1265	3.7	4700	16000	14.6	1325	2.1	4700	16000	
C 61 2_38.0	38.0	23.7	1350	3.5	4700	16000	13.2	1350	2.0	4700	16000	
C 61 3_26.8	26.8	34	1600	6.0	4700	14500	18.7	1600	3.4	4700	16000	
C 61 3_29.4	29.4	31	1600	5.5	4700	15200	17.0	1600	3.1	4700	16000	
C 61 3_33.0	33.0	27.3	1600	4.9	4700	15900	15.2	1600	2.7	4700	16000	
C 61 3_36.1	36.1	24.9	1600	4.5	4700	16000	13.9	1600	2.5	4700	16000	
C 61 3_43.4	43.4	20.7	1600	3.7	4700	16000	11.5	1600	2.1	4700	16000	
C 61 3_47.6	47.6	18.9	1600	3.4	4700	16000	10.5	1600	1.9	4700	16000	
C 61 3_53.5	53.5	16.8	1600	3.0	4700	16000	9.3	1600	1.7	4700	16000	
C 61 3_58.6	58.6	15.4	1600	2.8	4700	16000	8.5	1600	1.5	4700	16000	
C 61 3_67.7	67.7	13.3	1600	2.4	4700	16000	7.4	1600	1.3	4700	16000	
C 61 3_74.2	74.2	12.1	1600	2.2	4700	16000	6.7	1600	1.2	4700	16000	
C 61 3_83.0	83.0	10.8	1600	2.0	4700	16000	6.0	1600	1.1	4700	16000	
C 61 3_91.0	91.0	9.9	1600	1.8	4700	16000	5.5	1600	0.99	4700	16000	
C 61 3_103.6	103.6	8.7	1600	1.6	4700	16000	4.8	1600	0.87	4700	16000	
C 61 3_113.6	113.6	7.9	1600	1.4	4700	16000	4.4	1600	0.79	4700	16000	
C 61 3_128.1	128.1	7.0	1600	1.3	4700	16000	3.9	1600	0.70	4700	16000	
C 61 3_140.5	140.5	6.4	1600	1.2	4700	16000	3.6	1600	0.64	4700	16000	
C 61 3_150.0	150.0	6.0	1600	1.1	4700	16000	3.3	1600	0.60	4700	16000	
C 61 3_164.5	164.5	5.5	1600	0.99	4700	16000	3.0	1600	0.55	4700	16000	
C 61 3_178.6	178.6	5.0	1600	0.91	4700	16000	2.8	1600	0.50	4700	16000	
C 61 3_195.8	195.8	4.6	1600	0.83	4700	16000	2.6	1600	0.46	4700	16000	
C 61 4_217.4	217.4	4.1	1600	0.76	3500	16000	2.3	1600	0.42	3500	16000	
C 61 4_238.3	238.3	3.8	1600	0.70	3500	16000	2.1	1600	0.39	3500	16000	
C 61 4_275.3	275.3	3.3	1600	0.60	3500	16000	1.8	1600	0.33	3500	16000	
C 61 4_301.7	301.7	3.0	1600	0.55	3500	16000	1.7	1600	0.31	3500	16000	
C 61 4_337.7	337.7	2.7	1600	0.49	3500	16000	1.5	1600	0.27	3500	16000	
C 61 4_370.1	370.1	2.4	1600	0.45	3500	16000	1.4	1600	0.25	3500	16000	
C 61 4_421.5	421.5	2.1	1600	0.39	3500	16000	1.2	1600	0.22	3500	16000	
C 61 4_462.0	462.0	1.9	1600	0.36	3500	16000	1.1	1600	0.20	3500	16000	
C 61 4_521.1	521.1	1.7	1600	0.32	3500	16000	1.0	1600	0.18	3500	16000	
C 61 4_571.2	571.2	1.6	1600	0.29	3500	16000	0.88	1600	0.16	3500	16000	
C 61 4_610.1	610.1	1.5	1600	0.27	3500	16000	0.82	1600	0.15	3500	16000	
C 61 4_668.8	668.8	1.3	1600	0.25	3500	16000	0.75	1600	0.14	3500	16000	
C 61 4_726.3	726.3	1.2	1600	0.23	3500	16000	0.69	1600	0.13	3500	16000	
C 61 4_796.1	796.1	1.1	1600	0.21	3500	16000	0.63	1600	0.12	3500	16000	

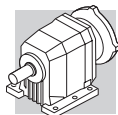


C 70

2300 Nm

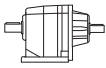
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		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 70 2_4.6	4.6	613	1400	95	—	5590	306	1700	57	—	7100	158
C 70 2_5.9	5.9	479	1550	82	—	5610	239	1900	50	—	6990	
C 70 2_6.3	6.3	448	1600	79	1980	6570	224	1950	48	2630	8250	
C 70 2_7.5	7.5	375	1550	64	—	7130	188	1950	40	—	8400	
C 70 2_8.0	8.0	350	1750	68	1760	6840	175	2100	41	2670	8880	
C 70 2_9.5	9.5	294	1600	52	770	8260	147	2000	32	620	9910	
C 70 2_10.2	10.2	274	1900	57	2000	7200	137	2100	32	4470	10800	
C 70 2_11.2	11.2	250	1600	44	1130	9350	125	2000	28	1070	11300	
C 70 2_13.0	13.0	215	2050	49	1860	7700	107	2100	25	5600	12900	
C 70 2_14.1	14.1	199	1700	37	1100	10100	99	2100	23	1280	12400	
C 70 2_15.3	15.3	183	2100	42	1810	8540	91	2100	21	5860	14300	
C 70 2_16.7	16.7	168	1700	31	1570	11400	84	2050	18.9	2350	14300	
C 70 2_19.3	19.3	145	2100	34	2730	10400	73	2100	16.8	6000	16300	
C 70 2_22.9	22.9	123	2100	28	3160	11800	61	2100	14.2	6060	18000	
C 70 2_27.7	27.7	101	2100	23	3570	13400	51	2100	11.7	6120	19900	
C 70 2_34.7	34.7	81	2100	18.7	3960	15400	40	2100	9.3	6180	22200	
C 70 3_41.3	41.3	68	1900	14.5	5670	18400	34	2300	8.8	7000	22800	
C 70 3_44.7	44.7	63	1900	13.4	5700	19100	31	2300	8.1	7000	23800	
C 70 3_52.2	52.2	54	2050	12.4	5680	19600	26.8	2300	7.0	7000	25000	
C 70 3_56.5	56.5	50	2050	11.4	5710	20400	24.8	2300	6.4	7000	25000	
C 70 3_65.9	65.9	43	2200	10.5	5670	21000	21.3	2300	5.5	7000	25000	
C 70 3_71.3	71.3	39	2200	9.7	5710	21900	19.6	2300	5.1	7000	25000	
C 70 3_81.4	81.4	34	2300	8.9	5680	22700	17.2	2300	4.5	7000	25000	
C 70 3_88.2	88.2	32	2300	8.2	5710	23600	15.9	2300	4.1	7000	25000	
C 70 3_103.8	103.8	27.0	2300	7.0	5700	25000	13.5	2300	3.5	7000	25000	
C 70 3_112.4	112.4	24.9	2300	6.4	5740	25000	12.5	2300	3.2	7000	25000	
C 70 3_126.8	126.8	22.1	2300	5.7	5720	25000	11.0	2300	2.9	7000	25000	
C 70 3_137.4	137.4	20.4	2300	5.3	5750	25000	10.2	2300	2.6	7000	25000	
C 70 3_150.3	150.3	18.6	2300	4.8	5730	25000	9.3	2300	2.4	7000	25000	
C 70 3_162.8	162.8	17.2	2300	4.5	5760	25000	8.6	2300	2.2	7000	25000	
C 70 3_179.2	179.2	15.6	2300	4.0	5740	25000	7.8	2300	2.0	7000	25000	
C 70 3_194.1	194.1	14.4	2300	3.7	5770	25000	7.2	2300	1.9	7000	25000	
C 70 3_220.9	220.9	12.7	2250	3.2	5750	25000	6.3	2250	1.6	7000	25000	
C 70 3_239.3	239.3	11.7	2300	3.0	5770	25000	5.8	2300	1.5	7000	25000	
C 70 4_251.3	251.3	11.1	2300	2.9	2000	25000	5.6	2300	1.5	2620	25000	
C 70 4_272.2	272.2	10.3	2300	2.7	2030	25000	5.1	2300	1.4	2650	25000	
C 70 4_317.9	317.9	8.8	2300	2.3	2030	25000	4.4	2300	1.2	2650	25000	
C 70 4_344.3	344.3	8.1	2300	2.2	2050	25000	4.1	2300	1.1	2670	25000	
C 70 4_409.4	409.4	6.8	2300	1.8	2050	25000	3.4	2300	0.90	2670	25000	
C 70 4_443.5	443.5	6.3	2300	1.7	2070	25000	3.2	2300	0.80	2700	25000	
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C 70 4_554.7	554.7	5.0	2300	1.3	2090	25000	2.5	2300	0.70	2710	25000	
C 70 4_606.8	606.8	4.6	2300	1.2	2080	25000	2.3	2300	0.60	2700	25000	
C 70 4_657.3	657.3	4.3	2300	1.1	2100	25000	2.1	2300	0.60	2720	25000	
C 70 4_736.0	736.0	3.8	2300	1.0	2090	25000	1.9	2300	0.50	2700	25000	
C 70 4_797.3	797.3	3.5	2300	0.90	2110	25000	1.8	2300	0.50	2720	25000	
C 70 4_922.6	922.6	3.0	2300	0.80	2100	25000	1.5	2300	0.40	2710	25000	
C 70 4_999.5	999.5	2.8	2300	0.70	2110	25000	1.4	2300	0.40	2730	25000	
C 70 4_1069	1069	2.6	2300	0.70	2100	25000	1.3	2300	0.30	2720	25000	
C 70 4_1158	1158	2.4	2300	0.60	2100	25000	1.2	2300	0.30	2800	25000	
C 70 4_1362	1362	2.1	2300	0.50	2100	25000	1.0	2300	0.30	2800	25000	
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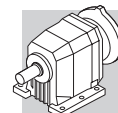
(—) Contactar con nuestro servicio técnico facilitando los datos relativos a la carga radial (sentido de giro, orientación y posición)



C 70

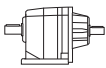
2300 Nm

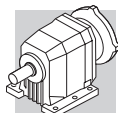
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		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
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C 70 2_5.9	5.9	154	1950	33	560	9980	85	2150	20	2890	13400	
C 70 2_6.3	6.3	144	2100	33	4260	10400	80	2100	18.5	7000	15500	
C 70 2_7.5	7.5	121	2100	28	1120	10800	67	2150	15.9	5400	15600	
C 70 2_8.0	8.0	113	2100	26	5800	12500	63	2100	14.5	7000	17800	
C 70 2_9.5	9.5	95	2150	22	2140	12400	53	2150	12.4	6990	18100	
C 70 2_10.2	10.2	88	2100	20	6870	14600	49	2100	11.3	7000	20200	
C 70 2_11.2	11.2	80	2150	19.0	2620	14000	45	2150	10.6	7000	19800	
C 70 2_13.0	13.0	69	2100	16.0	7000	16900	38	2100	8.9	7000	22800	
C 70 2_14.1	14.1	64	2150	15.1	3900	16000	35	2150	8.4	7000	22300	
C 70 2_15.3	15.3	59	2100	13.6	7000	18400	33	2100	7.5	7000	24600	
C 70 2_16.7	16.7	54	2050	12.2	5470	18500	29.9	2050	6.8	7000	25000	
C 70 2_19.3	19.3	47	2100	10.8	7000	20700	25.9	2100	6.0	7000	25000	
C 70 2_22.9	22.9	39	2100	9.1	7000	22500	21.9	2100	5.1	7000	25000	
C 70 2_27.7	27.7	32	2100	7.5	7000	24600	18.0	2100	4.2	7000	25000	
C 70 2_34.7	34.7	25.9	2100	6.0	7000	25000	14.4	2100	3.3	7000	25000	
C 70 3_41.3	41.3	21.8	2300	5.6	7000	25000	12.1	2300	3.1	7000	25000	
C 70 3_44.7	44.7	20.1	2300	5.2	7000	25000	11.2	2300	2.9	7000	25000	
C 70 3_52.2	52.2	17.3	2300	4.5	7000	25000	9.6	2300	2.5	7000	25000	
C 70 3_56.5	56.5	15.9	2300	4.1	7000	25000	8.8	2300	2.3	7000	25000	
C 70 3_65.9	65.9	13.7	2300	3.5	7000	25000	7.6	2300	2.0	7000	25000	
C 70 3_71.3	71.3	12.6	2300	3.3	7000	25000	7.0	2300	1.8	7000	25000	
C 70 3_81.4	81.4	11.1	2300	2.9	7000	25000	6.1	2300	1.6	7000	25000	
C 70 3_88.2	88.2	10.2	2300	2.6	7000	25000	5.7	2300	1.5	7000	25000	
C 70 3_103.8	103.8	8.7	2300	2.2	7000	25000	4.8	2300	1.2	7000	25000	
C 70 3_112.4	112.4	8.0	2300	2.1	7000	25000	4.4	2300	1.2	7000	25000	
C 70 3_126.8	126.8	7.1	2300	1.8	7000	25000	3.9	2300	1.0	7000	25000	
C 70 3_137.4	137.4	6.6	2300	1.7	7000	25000	3.6	2300	0.90	7000	25000	
C 70 3_150.3	150.3	6.0	2300	1.6	7000	25000	3.3	2300	0.90	7000	25000	
C 70 3_162.8	162.8	5.5	2300	1.4	7000	25000	3.1	2300	0.80	7000	25000	
C 70 3_179.2	179.2	5.0	2300	1.3	7000	25000	2.8	2300	0.70	7000	25000	
C 70 3_194.1	194.1	4.6	2300	1.2	7000	25000	2.6	2300	0.70	7000	25000	
C 70 3_220.9	220.9	4.1	2250	1.0	7000	25000	2.3	2250	0.60	7000	25000	
C 70 3_239.3	239.3	3.8	2300	1.0	7000	25000	2.1	2300	0.50	7000	25000	
C 70 4_251.3	251.3	3.6	2300	0.90	2000	25000	2.0	2300	0.50	2620	25000	
C 70 4_272.2	272.2	3.3	2300	0.90	2030	25000	1.8	2300	0.50	2650	25000	
C 70 4_317.9	317.9	2.8	2300	0.70	2030	25000	1.6	2300	0.40	2650	25000	
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C 70 4_409.4	409.4	2.2	2300	0.60	2050	25000	1.2	2300	0.30	2670	25000	
C 70 4_443.5	443.5	2.0	2300	0.50	2070	25000	1.1	2300	0.30	2700	25000	
C 70 4_512.0	512.0	1.8	2300	0.50	2070	25000	1.0	2300	0.30	2680	25000	
C 70 4_554.7	554.7	1.6	2300	0.40	2090	25000	0.90	2300	0.20	2710	25000	
C 70 4_606.8	606.8	1.5	2300	0.40	2080	25000	0.80	2300	0.20	2700	25000	
C 70 4_657.3	657.3	1.4	2300	0.40	2100	25000	0.80	2300	0.20	2720	25000	
C 70 4_736.0	736.0	1.2	2300	0.30	2090	25000	0.70	2300	0.20	2700	25000	
C 70 4_797.3	797.3	1.1	2300	0.30	2110	25000	0.60	2300	0.20	2720	25000	
C 70 4_922.6	922.6	1.0	2300	0.30	2100	25000	0.50	2300	0.10	2710	25000	
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C 70 4_1158	1158	0.80	2300	0.20	2100	25000	0.40	2300	0.10	2800	25000	
C 70 4_1362	1362	0.70	2300	0.20	2100	25000	0.40	2300	0.10	2800	25000	
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C 80

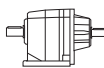
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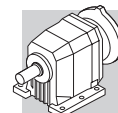
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C 80 2_8.9	8.9	316	2800	98	420	12100	158	3500	61	1120	14500	
C 80 2_9.6	9.6	292	3000	96	520	11300	146	3700	59	1380	13900	
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C 80 2_12.0	12.0	233	3000	77	1200	13500	116	3700	48	2190	16600	
C 80 2_13.8	13.8	203	2800	63	1420	16400	102	3500	39	2330	19800	
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C 80 2_16.7	16.7	168	2800	52	1840	18500	84	3500	32	2840	22300	
C 80 2_18.1	18.1	155	3000	50	1930	17900	78	3700	32	3060	22000	
C 80 2_20.5	20.5	136	2850	43	2000	20500	68	3550	27	3060	24800	
C 80 2_22.2	22.2	126	3000	42	2210	20300	63	3700	26	3400	24900	
C 80 2_24.0	24.0	117	2850	37	2090	22400	58	3550	23	3180	27000	
C 80 2_25.9	25.9	108	3000	36	2300	22300	54	3700	22	3510	27200	
C 80 2_31.3	31.3	89	3000	30	2480	24700	45	3700	18.2	3730	30000	
C 80 2_39.1	39.1	72	2500	19.7	3820	31000	36	3200	12.6	5060	35000	
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C 80 3_47.4	47.4	59	3100	21	5660	30000	29.5	3800	12.6	7000	35000	
C 80 3_57.3	57.3	49	3400	18.7	5620	30500	24.4	4000	11.0	7000	35000	
C 80 3_62.5	62.5	45	3400	17.1	5670	31800	22.4	4000	10.1	7000	35000	
C 80 3_70.5	70.5	40	3650	16.3	5620	32200	19.9	4000	8.9	7000	35000	
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C 80 3_89.3	89.3	31	3900	13.8	5620	34700	15.7	4000	7.1	7000	35000	
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C 80 3_109.5	109.5	25.5	4000	11.5	5630	35000	12.8	4000	5.8	7000	35000	
C 80 3_119.5	119.5	23.4	4000	10.6	5680	35000	11.7	4000	5.3	7000	35000	
C 80 3_136.7	136.7	20.5	4000	9.2	5660	35000	10.2	4000	4.6	7000	35000	
C 80 3_149.1	149.1	18.8	4000	8.5	5700	35000	9.4	4000	4.2	7000	35000	
C 80 3_169.0	169.0	16.6	4000	7.5	5680	35000	8.3	4000	3.7	7000	35000	
C 80 3_184.4	184.4	15.2	4000	6.8	5720	35000	7.6	4000	3.4	7000	35000	
C 80 3_197.9	197.9	14.2	3800	6.1	5710	35000	7.1	3800	3.0	7000	35000	
C 80 3_215.8	215.8	13.0	4000	5.8	5730	35000	6.5	4000	2.9	7000	35000	
C 80 4_261.9	261.9	10.7	4000	4.9	1850	35000	5.3	4000	2.5	2470	35000	
C 80 4_285.7	285.7	9.8	4000	4.5	1890	35000	4.9	4000	2.3	2510	35000	
C 80 4_334.3	334.3	8.4	4000	3.9	1880	35000	4.2	4000	1.9	2500	35000	
C 80 4_364.7	364.7	7.7	4000	3.5	1920	35000	3.8	4000	1.8	2540	35000	
C 80 4_417.5	417.5	6.7	4000	3.1	1910	35000	3.4	4000	1.5	2530	35000	
C 80 4_455.4	455.4	6.1	4000	2.8	1950	35000	3.1	4000	1.4	2570	35000	
C 80 4_529.3	529.3	5.3	4000	2.4	1940	35000	2.6	4000	1.2	2550	35000	
C 80 4_577.4	577.4	4.8	4000	2.2	1970	35000	2.4	4000	1.1	2590	35000	
C 80 4_664.3	664.3	4.2	4000	1.9	1960	35000	2.1	4000	1.0	2570	35000	
C 80 4_724.7	724.7	3.9	4000	1.8	1990	35000	1.9	4000	0.90	2610	35000	
C 80 4_783.4	783.4	3.6	4000	1.6	1970	35000	1.8	4000	0.80	2590	35000	
C 80 4_854.6	854.6	3.3	4000	1.5	2000	35000	1.6	4000	0.80	2620	35000	
C 80 4_945.7	945.7	3.0	4000	1.4	1980	35000	1.5	4000	0.70	2600	35000	
C 80 4_1032	1032	2.7	4000	1.2	2010	35000	1.4	4000	0.60	2630	35000	
C 80 4_1168	1168	2.4	4000	1.1	1980	35000	1.2	4000	0.60	2600	35000	
C 80 4_1274	1274	2.2	4000	1.0	2020	35000	1.1	4000	0.50	2640	35000	
C 80 4_1358	1358	2.1	4000	0.90	1990	35000	1.0	4000	0.50	2610	35000	
C 80 4_1481	1481	1.9	4000	0.90	2030	35000	0.90	4000	0.40	2640	35000	



C 80

4000 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 80 2_5.6	5.6	160	3500	62	1480	14400	89	3500	34	4970	21600	161
C 80 2_6.1	6.1	147	3600	58	2100	14400	82	3700	33	5270	21200	
C 80 2_7.0	7.0	128	3500	49	2630	17000	71	3500	27	6130	24600	
C 80 2_7.6	7.6	118	3650	47	3060	16800	66	3650	26	6550	24600	
C 80 2_8.9	8.9	102	3500	39	3330	19900	56	3500	22	6800	27800	
C 80 2_9.6	9.6	94	3700	38	3590	19400	52	3700	21	7000	27700	
C 80 2_11.1	11.1	81	3500	31	4160	22800	45	3500	17.4	7000	31200	
C 80 2_12.0	12.0	75	3700	31	4400	22500	42	3700	17.0	7000	31200	
C 80 2_13.8	13.8	65	3500	25	4540	25700	36	3500	14.0	7000	34700	
C 80 2_14.9	14.9	60	3700	25	4770	25500	34	3700	13.7	7000	34700	
C 80 2_16.7	16.7	54	3500	21	5050	28500	30	3500	11.6	7000	35000	
C 80 2_18.1	18.1	50	3700	20	5280	28400	27.7	3700	11.3	7000	35000	
C 80 2_20.5	20.5	44	3550	17.2	5270	31400	24.4	3550	9.5	7000	35000	
C 80 2_22.2	22.2	40	3700	16.5	5610	31600	22.5	3700	9.2	7000	35000	
C 80 2_24.0	24.0	38	3550	14.7	5390	33800	20.9	3550	8.2	7000	35000	
C 80 2_25.9	25.9	35	3700	14.1	5730	34200	19.3	3700	7.9	7000	35000	
C 80 2_31.3	31.3	28.7	3700	11.7	5940	35000	16.0	3700	6.5	7000	35000	
C 80 2_39.1	39.1	23.0	3200	8.1	7000	35000	12.8	3200	4.5	7000	35000	
C 80 3_43.5	43.5	20.7	4000	9.3	7000	35000	11.5	4000	5.2	7000	35000	
C 80 3_47.4	47.4	19.0	4000	8.5	7000	35000	10.5	4000	4.7	7000	35000	
C 80 3_57.3	57.3	15.7	4000	7.1	7000	35000	8.7	4000	3.9	7000	35000	
C 80 3_62.5	62.5	14.4	4000	6.5	7000	35000	8.0	4000	3.6	7000	35000	
C 80 3_70.5	70.5	12.8	4000	5.7	7000	35000	7.1	4000	3.2	7000	35000	
C 80 3_76.9	76.9	11.7	4000	5.3	7000	35000	6.5	4000	2.9	7000	35000	
C 80 3_89.3	89.3	10.1	4000	4.5	7000	35000	5.6	4000	2.5	7000	35000	
C 80 3_97.4	97.4	9.2	4000	4.2	7000	35000	5.1	4000	2.3	7000	35000	
C 80 3_109.5	109.5	8.2	4000	3.7	7000	35000	4.6	4000	2.1	7000	35000	
C 80 3_119.5	119.5	7.5	4000	3.4	7000	35000	4.2	4000	1.9	7000	35000	
C 80 3_136.7	136.7	6.6	4000	3.0	7000	35000	3.7	4000	1.6	7000	35000	
C 80 3_149.1	149.1	6.0	4000	2.7	7000	35000	3.4	4000	1.5	7000	35000	
C 80 3_169.0	169.0	5.3	4000	2.4	7000	35000	3.0	4000	1.3	7000	35000	
C 80 3_184.4	184.4	4.9	4000	2.2	7000	35000	2.7	4000	1.2	7000	35000	
C 80 3_197.9	197.9	4.5	3800	1.9	7000	35000	2.5	3800	1.1	7000	35000	
C 80 3_215.8	215.8	4.2	4000	1.9	7000	35000	2.3	4000	1.0	7000	35000	
C 80 4_261.9	261.9	3.4	4000	1.6	2950	35000	1.9	4000	0.90	3500	35000	
C 80 4_285.7	285.7	3.2	4000	1.4	2990	35000	1.8	4000	0.80	3500	35000	
C 80 4_334.3	334.3	2.7	4000	1.2	2980	35000	1.5	4000	0.70	3500	35000	
C 80 4_364.7	364.7	2.5	4000	1.1	3020	35000	1.4	4000	0.60	3500	35000	
C 80 4_417.5	417.5	2.2	4000	1.0	3000	35000	1.2	4000	0.60	3500	35000	
C 80 4_455.4	455.4	2.0	4000	0.90	3050	35000	1.1	4000	0.50	3500	35000	
C 80 4_529.3	529.3	1.7	4000	0.80	3030	35000	0.90	4000	0.40	3500	35000	
C 80 4_577.4	577.4	1.6	4000	0.70	3070	35000	0.90	4000	0.40	3500	35000	
C 80 4_664.3	664.3	1.4	4000	0.60	3050	35000	0.80	4000	0.30	3500	35000	
C 80 4_724.7	724.7	1.2	4000	0.60	3090	35000	0.70	4000	0.30	3500	35000	
C 80 4_783.4	783.4	1.1	4000	0.50	3060	35000	0.60	4000	0.30	3500	35000	
C 80 4_854.6	854.6	1.1	4000	0.50	3100	35000	0.60	4000	0.30	3500	35000	
C 80 4_945.7	945.7	1.0	4000	0.40	3070	35000	0.50	4000	0.20	3500	35000	
C 80 4_1032	1032	0.90	4000	0.40	3110	35000	0.50	4000	0.20	3500	35000	
C 80 4_1168	1168	0.80	4000	0.40	3080	35000	0.40	4000	0.20	3500	35000	
C 80 4_1274	1274	0.70	4000	0.30	3110	35000	0.40	4000	0.20	3500	35000	
C 80 4_1358	1358	0.70	4000	0.30	3090	35000	0.40	4000	0.20	3500	35000	
C 80 4_1481	1481	0.60	4000	0.30	3120	35000	0.30	4000	0.20	3500	35000	

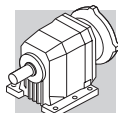


C 90

7200 Nm

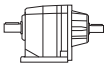
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 90 2_5.2	5.2	542	3500	209	1700	12800	271	4300	128	2170	15800	164
C 90 2_5.6	5.6	500	3600	198	3240	12800	250	4400	121	4250	16000	
C 90 2_6.8	6.8	414	3850	176	1860	13400	207	4750	108	2210	16400	
C 90 2_7.3	7.3	383	3950	167	3470	13500	191	4850	102	4360	16700	
C 90 2_8.3	8.3	336	4150	154	2010	13800	168	5100	94	2540	17100	
C 90 2_9.0	9.0	310	4250	145	3660	14000	155	5200	89	4720	17500	
C 90 2_10.4	10.4	270	4500	134	990	14200	135	5550	83	1150	17400	
C 90 2_11.2	11.2	249	4600	126	2750	14400	125	5650	78	3460	17800	
C 90 2_12.8	12.8	219	4850	117	580	14700	109	5950	72	840	18200	
C 90 2_13.9	13.9	202	4900	109	2700	15300	101	6050	67	3220	18700	
C 90 2_16.0	16.0	175	5050	98	690	16800	88	6200	60	950	20800	
C 90 2_17.3	17.3	162	5300	94	1670	15900	81	6500	58	2200	19800	
C 90 2_18.7	18.7	150	5050	83	1140	19600	75	6200	51	1500	24300	
C 90 2_20.2	20.2	138	5400	82	1540	17900	69	6600	50	2160	22500	
C 90 2_22.9	22.9	122	5050	68	2110	22400	61	6200	42	2700	27600	
C 90 2_24.8	24.8	113	5400	67	2500	21900	56	6600	41	3340	27300	
C 90 2_27.2	27.2	103	4500	51	6160	26000	52	5500	31	7820	32200	
C 90 2_29.4	29.4	95	4800	50	6560	26000	48	5900	31	8130	32000	
C 90 2_35.1	35.1	80	4400	39	8090	29400	40	5400	24	11100	36300	
C 90 3_39.4	39.4	71	6350	51	10800	23900	36	7100	28	13700	32900	
C 90 3_43.0	43.0	65	6500	48	10800	24700	33	7200	26	13800	34000	
C 90 3_50.3	50.3	56	6800	43	10800	26000	27.8	7100	22	13800	37000	
C 90 3_54.9	54.9	51	7000	40	10900	26500	25.5	7200	21	13900	38300	
C 90 3_59.2	59.2	47	7100	38	10800	27700	23.6	7100	18.9	13900	40000	
C 90 3_64.6	64.6	43	7200	35	10900	29100	21.7	7200	17.6	14000	41300	
C 90 3_74.4	74.4	38	7100	30	10900	31900	18.8	7100	15.0	14000	44400	
C 90 3_81.2	81.2	34	7200	28	10900	33000	17.2	7200	14.0	14100	45900	
C 90 3_88.2	88.2	32	7100	25	11000	34800	15.9	7100	12.7	14000	47900	
C 90 3_96.2	96.2	29.1	7200	24	11000	35900	14.5	7200	11.8	14100	49400	
C 90 3_107.0	107.0	26.2	7100	21	11000	38100	13.1	7100	10.5	14100	52100	
C 90 3_116.7	116.7	24.0	7200	19.4	11000	39400	12.0	7200	9.7	14100	53700	
C 90 3_134.1	134.1	20.9	7100	16.7	11000	42400	10.4	7100	8.3	14100	57300	
C 90 3_146.3	146.3	19.1	7200	15.5	11000	43800	9.6	7200	7.8	14200	59000	
C 90 3_157.8	157.8	17.7	7100	14.2	11000	45600	8.9	7100	7.1	14100	60000	
C 90 3_172.1	172.1	16.3	7200	13.2	11000	47100	8.1	7200	6.6	14200	60000	
C 90 4_212.4	212.4	13.2	7200	10.9	—	60000	6.6	7200	5.5	1180	60000	
C 90 4_231.7	231.7	12.1	7200	10.0	—	60000	6.0	7200	5.0	1560	60000	
C 90 4_268.5	268.5	10.4	7200	8.6	—	60000	5.2	7200	4.3	1540	60000	
C 90 4_292.9	292.9	9.6	7200	7.9	—	60000	4.8	7200	4.0	1880	60000	
C 90 4_339.0	339.0	8.3	7200	6.8	—	60000	4.1	7200	3.4	1720	60000	
C 90 4_369.8	369.8	7.6	7200	6.3	—	60000	3.8	7200	3.1	2050	60000	
C 90 4_419.0	419.0	6.7	7200	5.5	—	60000	3.3	7200	2.8	1890	60000	
C 90 4_457.1	457.1	6.1	7200	5.1	—	60000	3.1	7200	2.5	2210	60000	
C 90 4_534.2	534.2	5.2	7200	4.3	—	60000	2.6	7200	2.2	2090	60000	
C 90 4_582.8	582.8	4.8	7200	4.0	—	60000	2.4	7200	2.0	2270	60000	
C 90 4_652.8	652.8	4.3	7200	3.6	—	60000	2.1	7200	1.8	2160	60000	
C 90 4_712.2	712.2	3.9	7200	3.3	—	60000	2.0	7200	1.6	2290	60000	
C 90 4_773.6	773.6	3.3	7200	3.0	—	60000	1.8	7200	1.5	2250	60000	
C 90 4_844.0	844.0	3.0	7200	2.7	—	60000	1.7	7200	1.4	2310	60000	
C 90 4_922.3	922.3	2.8	7200	2.5	—	60000	1.5	7200	1.3	2260	60000	
C 90 4_1006	1006	2.5	7200	2.3	—	60000	1.4	7200	1.2	2320	60000	
C 90 4_1137	1137	2.3	7200	2.0	—	60000	1.2	7200	1.0	2270	60000	
C 90 4_1240	1240	2.2	7200	1.9	—	60000	1.1	7200	0.90	2230	60000	

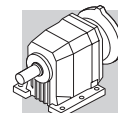
(—) Contactar con nuestro servicio técnico facilitando los datos relativos a la carga radial (sentido de giro, orientación y posición)



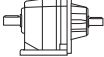
C 90

7200 Nm

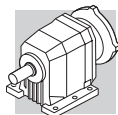
	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 90 2_5.2	5.2	174	4900	94	2560	18200	97	5850	62	3010	21600	164
C 90 2_5.6	5.6	161	5050	89	4640	18100	89	6000	59	5720	21800	
C 90 2_6.8	6.8	133	5450	80	2310	18500	74	6200	51	5130	24600	
C 90 2_7.3	7.3	123	5550	75	4890	18900	68	6550	49	6340	23200	
C 90 2_8.3	8.3	108	5850	70	2700	19300	60	6200	41	8870	27800	
C 90 2_9.0	9.0	100	5950	65	5300	19800	55	6600	40	9660	27600	
C 90 2_10.4	10.4	87	6200	59	2250	21000	48	6200	33	11000	31000	
C 90 2_11.2	11.2	80	6450	57	3960	20400	45	6600	32	11700	30800	
C 90 2_12.8	12.8	70	6250	48	4500	25300	39	6250	27	13200	34100	
C 90 2_13.9	13.9	65	6550	47	5830	24400	36	6550	26	14600	34300	
C 90 2_16.0	16.0	56	6200	38	6570	28700	31	6200	21	15000	38000	
C 90 2_17.3	17.3	52	6550	38	7530	28600	28.9	6550	21	15000	38100	
C 90 2_18.7	18.7	48	6200	33	7120	31000	26.7	6200	18.3	15000	40700	
C 90 2_20.2	20.2	44	6600	32	7780	30800	24.8	6600	18.0	15000	40700	
C 90 2_22.9	22.9	39	6200	27	8310	34200	21.8	6200	14.9	15000	44500	
C 90 2_24.8	24.8	36	6600	26	8950	34100	20.2	6600	14.6	15000	44600	
C 90 2_27.2	27.2	33	5500	20	13400	39200	18.4	5500	11.2	15000	50000	
C 90 2_29.4	29.4	31	5900	19.9	13700	39100	17.0	5900	11.0	15000	50200	
C 90 2_35.1	35.1	25.6	5400	15.3	14100	43800	14.2	5400	8.5	15000	55500	
C 90 3_39.4	39.4	22.8	7100	18.3	15000	40600	12.7	7100	10.1	15000	40600	
C 90 3_43.0	43.0	20.9	7200	17.0	15000	42000	11.6	7200	9.4	15000	42000	
C 90 3_50.3	50.3	17.9	7100	14.3	15000	45400	9.9	7100	7.9	15000	45400	
C 90 3_54.9	54.9	16.4	7200	13.3	15000	46900	9.1	7200	7.4	15000	46900	
C 90 3_59.2	59.2	15.2	7100	12.2	15000	48800	8.4	7100	6.8	15000	48800	
C 90 3_64.6	64.6	13.9	7200	11.3	15000	50400	7.7	7200	6.3	15000	50400	
C 90 3_74.4	74.4	12.1	7100	9.7	15000	53800	6.7	7100	5.4	15000	53800	
C 90 3_81.2	81.2	11.1	7200	9.0	15000	55500	6.2	7200	5.0	15000	55500	
C 90 3_88.2	88.2	10.2	7100	8.2	15000	57800	5.7	7100	4.5	15000	57800	
C 90 3_96.2	96.2	9.4	7200	7.6	15000	59600	5.2	7200	4.2	15000	59600	
C 90 3_107.0	107.0	8.4	7100	6.7	15000	60000	4.7	7100	3.7	15000	60000	
C 90 3_116.7	116.7	7.7	7200	6.3	15000	60000	4.3	7200	3.5	15000	60000	
C 90 3_134.1	134.1	6.7	7100	5.4	15000	60000	3.7	7100	3.0	15000	60000	
C 90 3_146.3	146.3	6.2	7200	5.0	15000	60000	3.4	7200	2.8	15000	60000	
C 90 3_157.8	157.8	5.7	7100	4.6	15000	60000	3.2	7100	2.5	15000	60000	
C 90 3_172.1	172.1	5.2	7200	4.2	15000	60000	2.9	7200	2.4	15000	60000	
C 90 4_212.4	212.4	4.2	7200	3.5	2090	60000	2.4	7200	2.0	3210	60000	
C 90 4_231.7	231.7	3.9	7200	3.2	2460	60000	2.2	7200	1.8	3290	60000	
C 90 4_268.5	268.5	3.4	7200	2.8	2440	60000	1.9	7200	1.5	3300	60000	
C 90 4_292.9	292.9	3.1	7200	2.5	2620	60000	1.7	7200	1.4	3370	60000	
C 90 4_339.0	339.0	2.7	7200	2.2	2590	60000	1.5	7200	1.2	3340	60000	
C 90 4_369.8	369.8	2.4	7200	2.0	2660	60000	1.4	7200	1.1	3420	60000	
C 90 4_419.0	419.0	2.1	7200	1.8	2630	60000	1.2	7200	1.0	3390	60000	
C 90 4_457.1	457.1	2.0	7200	1.6	2700	60000	1.1	7200	0.90	3460	60000	
C 90 4_534.2	534.2	1.7	7200	1.4	2680	60000	0.90	7200	0.80	3380	60000	
C 90 4_582.8	582.8	1.5	7200	1.3	2750	60000	0.90	7200	0.70	3500	60000	
C 90 4_652.8	652.8	1.4	7200	1.1	2700	60000	0.80	7200	0.60	3450	60000	
C 90 4_712.2	712.2	1.3	7200	1.0	2760	60000	0.70	7200	0.60	3500	60000	
C 90 4_773.6	773.6	1.2	7200	1.0	2720	60000	0.60	7200	0.50	3480	60000	
C 90 4_844.0	844.0	1.1	7200	0.90	2790	60000	0.60	7200	0.50	3500	60000	
C 90 4_922.3	922.3	1.0	7200	0.80	2730	60000	0.50	7200	0.40	3490	60000	
C 90 4_1006	1006	0.90	7200	0.70	2800	60000	0.50	7200	0.40	3500	60000	
C 90 4_1137	1137	0.80	7200	0.70	2740	60000	0.40	7200	0.40	3500	60000	
C 90 4_1240	1240	0.70	7200	0.60	2800	60000	0.40	7200	0.30	3500	60000	



C 100 12000 Nm

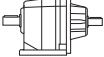
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 100 2_4.9	4.9	569	5500	345	1900	20600	285	6800	213	3790	25300	167
C 100 2_5.3	5.3	525	5650	327	2790	21000	263	6950	201	4940	25800	
C 100 2_6.5	6.5	429	6150	291	1920	21800	215	7550	179	3950	27000	
C 100 2_7.1	7.1	396	6200	271	3100	22700	198	7650	167	5270	27900	
C 100 2_8.4	8.4	335	6700	248	1870	22800	168	8200	152	3970	28500	
C 100 2_9.0	9.0	309	6800	232	2950	23500	155	8350	142	5190	29200	
C 100 2_10.1	10.1	278	7100	217	1930	24100	139	8750	134	3900	29500	
C 100 2_10.9	10.9	256	7100	200	3240	25700	128	8750	124	5460	31600	
C 100 2_12.5	12.5	225	7650	190	1360	24900	112	9400	117	3260	30800	
C 100 2_13.5	13.5	208	7700	176	2600	26300	104	9500	109	4680	32100	
C 100 2_15.2	15.2	184	8100	164	1270	26600	92	10000	101	2680	32500	
C 100 2_16.5	16.5	170	8250	154	2320	27200	85	10150	95	4420	33600	
C 100 2_18.7	18.7	150	8200	136	1500	30800	75	10000	83	3600	38000	
C 100 2_20.2	20.2	138	8100	124	3047	32200	69	10000	76	5210	39600	
C 100 2_22.2	22.2	126	7500	104	3570	35800	63	9200	64	5960	44100	
C 100 2_24.1	24.1	116	8100	104	3620	35200	58	10000	64	5900	43300	
C 100 2_29.6	29.6	95	6900	72	6380	42400	47	8500	44	9220	52200	
C 100 3_34.3	34.3	82	10350	95	9790	33300	41	11700	54	13000	46400	
C 100 3_36.9	36.9	76	10650	91	10200	34500	38	11800	50	13100	48000	
C 100 3_42.9	42.9	65	11350	83	9640	33200	33	12000	44	13100	51200	
C 100 3_46.2	46.2	61	11700	80	10100	33100	30	12000	41	13300	53100	
C 100 3_53.3	53.3	53	12000	71	9450	36400	26.3	12000	36	13200	56900	
C 100 3_57.4	57.4	49	12000	66	10200	39500	24.4	12000	33	13400	59000	
C 100 3_64.5	64.5	43	12000	59	9950	44100	21.7	12000	29	13400	62300	
C 100 3_69.4	69.4	40	12000	54	10400	45900	20.2	12000	27	13500	64500	
C 100 3_79.4	79.4	35	12000	48	10300	49200	17.6	12000	24	13500	68600	
C 100 3_85.6	85.6	33	12000	44	10400	51100	16.4	12000	22	13600	70900	
C 100 3_92.7	92.7	30	12000	41	10400	53200	15.1	12000	20	13500	73500	
C 100 3_99.8	99.8	28.1	12000	38	10500	55200	14.0	12000	19.0	13600	75900	
C 100 3_111.9	111.9	25.0	12000	34	10400	58300	12.5	12000	16.9	13500	79800	
C 100 3_120.5	120.5	23.2	12000	31	10500	60400	11.6	12000	15.7	13700	82400	
C 100 3_139.7	139.7	20.0	11050	25	10600	67400	10.0	11050	12.5	13700	85000	
C 100 3_150.4	150.4	18.6	12000	25	10600	66900	9.3	12000	12.6	13700	85000	
C 100 4_162.1	162.1	17.3	12000	24	—	85000	8.6	12000	11.9	—	85000	
C 100 4_185.4	185.4	15.1	12000	21	—	85000	7.6	12000	10.4	—	85000	
C 100 4_199.6	199.6	14.0	12000	19.4	—	85000	7.0	12000	9.7	—	85000	
C 100 4_244.2	244.2	11.5	12000	15.8	—	85000	5.7	12000	7.9	—	85000	
C 100 4_263.0	263.0	10.6	12000	14.7	—	85000	5.3	12000	7.4	—	85000	
C 100 4_300.5	300.5	9.3	12000	12.9	—	85000	4.7	12000	6.4	—	85000	
C 100 4_323.6	323.6	8.7	12000	11.9	—	85000	4.3	12000	6.0	—	85000	
C 100 4_380.5	380.5	7.4	12000	10.2	—	85000	3.7	12000	5.1	—	85000	
C 100 4_409.8	409.8	6.8	12000	9.4	—	85000	3.4	12000	4.7	—	85000	
C 100 4_466.7	466.7	6.0	12000	8.3	—	85000	3.0	12000	4.1	—	85000	
C 100 4_502.6	502.6	5.6	12000	7.7	—	85000	2.8	12000	3.8	—	85000	
C 100 4_582.6	582.6	4.8	12000	6.6	—	85000	2.4	12000	3.3	—	85000	
C 100 4_627.4	627.4	4.5	12000	6.2	—	85000	2.2	12000	3.1	—	85000	
C 100 4_720.3	720.3	3.9	12000	5.4	—	85000	1.9	12000	2.7	—	85000	
C 100 4_775.7	775.7	3.6	12000	5.0	—	85000	1.8	12000	2.5	—	85000	
C 100 4_843.3	843.3	3.3	12000	4.6	—	85000	1.7	12000	2.3	—	85000	
C 100 4_908.2	908.2	3.1	12000	4.3	—	85000	1.5	12000	2.1	830	85000	
C 100 4_1004	1004	2.8	12000	3.9	—	85000	1.4	12000	1.9	—	85000	
C 100 4_1081	1081	2.6	12000	3.6	—	85000	1.3	12000	1.8	870	85000	

(—) Contactar con nuestro servicio técnico facilitando los datos relativos a la carga radial (sentido de giro, orientación y posición)

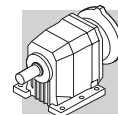


C 100

12000 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
C 100 2_4.9	4.9	183	7800	157	5310	28800	102	9300	104	6720	34400	167
C 100 2_5.3	5.3	169	7950	148	6680	29500	94	9450	98	9740	35200	
C 100 2_6.5	6.5	138	8600	131	5670	31000	77	10250	87	7540	37000	
C 100 2_7.1	7.1	127	8750	123	7050	31800	71	10450	81	10100	37800	
C 100 2_8.4	8.4	108	9350	111	5670	32600	60	10950	72	8530	40100	
C 100 2_9.0	9.0	99	9500	104	7080	33600	55	11350	69	10100	39900	
C 100 2_10.1	10.1	89	10000	98	5540	33600	50	10900	60	10600	44500	
C 100 2_10.9	10.9	82	10150	92	6980	34700	46	11500	58	11300	44300	
C 100 2_12.5	12.5	72	10700	85	3910	35400	40	10850	48	11700	49600	
C 100 2_13.5	13.5	67	10850	80	6440	36700	37	11450	47	12300	49500	
C 100 2_15.2	15.2	59	10800	70	5940	40800	33	10800	39	13000	54700	
C 100 2_16.5	16.5	55	11500	69	6320	39100	30	11500	38	13400	54500	
C 100 2_18.7	18.7	48	10900	58	6310	45100	26.8	10900	32	13400	59800	
C 100 2_20.2	20.2	45	11500	56	6890	45000	24.7	11500	31	14000	60100	
C 100 2_22.2	22.2	40	9850	44	9170	52200	22.5	9850	24	15000	67800	
C 100 2_24.1	24.1	37	10800	44	8930	51200	20.7	10800	25	15000	67200	
C 100 2_29.6	29.6	30	9100	31	12600	61400	16.9	9100	17.0	15000	78300	
C 100 3_34.3	34.3	26.2	11700	35	15000	57800	14.6	11700	19.2	15000	75500	
C 100 3_36.9	36.9	24.4	11800	32	15000	59600	13.5	11800	18.0	15000	77700	
C 100 3_42.9	42.9	21.0	12000	28	15000	63400	11.6	12000	15.7	15000	82300	
C 100 3_46.2	46.2	19.5	12000	26	15000	65600	10.8	12000	14.6	15000	84900	
C 100 3_53.3	53.3	16.9	12000	23	15000	69900	9.4	12000	12.7	15000	85000	
C 100 3_57.4	57.4	15.7	12000	21	15000	72300	8.7	12000	11.8	15000	85000	
C 100 3_64.5	64.5	14.0	12000	18.6	15000	76100	7.8	12000	10.5	15000	85000	
C 100 3_69.4	69.4	13.0	12000	17.5	15000	78600	7.2	12000	9.7	15000	85000	
C 100 3_79.4	79.4	11.3	12000	15.3	15000	83300	6.3	12000	8.5	15000	85000	
C 100 3_85.6	85.6	10.5	12000	14.2	15000	85000	5.8	12000	7.9	15000	85000	
C 100 3_92.7	92.7	9.7	12000	13.1	15000	85000	5.4	12000	7.3	15000	85000	
C 100 3_99.8	99.8	9.0	12000	12.2	15000	85000	5.0	12000	6.8	15000	85000	
C 100 3_111.9	111.9	8.0	12000	10.9	15000	85000	4.5	12000	6.0	15000	85000	
C 100 3_120.5	120.5	7.5	12000	10.1	15000	85000	4.1	12000	5.6	15000	85000	
C 100 3_139.7	139.7	6.4	11500	8.0	15000	85000	3.6	11050	4.5	15000	85000	
C 100 3_150.4	150.4	6.0	12000	8.1	15000	85000	3.3	12000	4.5	15000	85000	
C 100 4_162.1	162.1	5.6	12000	7.7	—	85000	3.1	12000	4.3	—	85000	
C 100 4_185.4	185.4	4.9	12000	6.7	—	85000	2.7	12000	3.7	920	85000	
C 100 4_199.6	199.6	4.5	12000	6.2	—	85000	2.5	12000	3.5	1430	85000	
C 100 4_244.2	244.2	3.7	12000	5.1	—	85000	2.0	12000	2.8	1490	85000	
C 100 4_263.0	263.0	3.4	12000	4.7	—	85000	1.9	12000	2.6	1950	85000	
C 100 4_300.5	300.5	3.0	12000	4.1	—	85000	1.7	12000	2.3	1840	85000	
C 100 4_323.6	323.6	2.8	12000	3.8	850	85000	1.5	12000	2.1	2280	85000	
C 100 4_380.5	380.5	2.4	12000	3.3	700	85000	1.3	12000	1.8	2130	85000	
C 100 4_409.8	409.8	2.2	12000	3.0	1120	85000	1.2	12000	1.7	2550	85000	
C 100 4_466.7	466.7	1.9	12000	2.7	910	85000	1.1	12000	1.5	2340	85000	
C 100 4_502.6	502.6	1.8	12000	2.5	1320	85000	1.0	12000	1.4	2740	85000	
C 100 4_582.6	582.6	1.5	12000	2.1	1100	85000	0.90	12000	1.2	2520	85000	
C 100 4_627.4	627.4	1.4	12000	2.0	1490	85000	0.80	12000	1.1	2910	85000	
C 100 4_720.3	720.3	1.2	12000	1.7	1270	85000	0.70	12000	1.0	2700	85000	
C 100 4_775.7	775.7	1.2	12000	1.6	1650	85000	0.60	12000	0.90	3070	85000	
C 100 4_843.3	843.3	1.1	12000	1.5	1360	85000	0.60	12000	0.80	2790	85000	
C 100 4_908.2	908.2	1.0	12000	1.4	1730	85000	0.60	12000	0.80	3160	85000	
C 100 4_1004	1004	0.90	12000	1.2	1400	85000	0.50	12000	0.70	2830	85000	
C 100 4_1081	1081	0.90	12000	1.1	1770	85000	0.50	12000	0.60	3170	85000	

(—) Contactar con nuestro servicio técnico facilitando los datos relativos a la carga radial (sentido de giro, orientación y posición)



27 PREDISPOSICIONES MOTOR

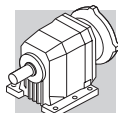
En las siguientes tablas se especifican los montajes posibles de motores en términos puramente geométricos.

La selección del motorreductor debe efectuarse siguiendo las instrucciones especificadas en el párrafo 12, respetando particularmente la condición $S \geq f_s$.

(B 22)

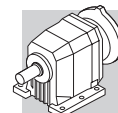
		IEC_  (IM B5)												
		BN										IEC		
P _{n1} (#) [kW]	2p	0.37	0.75	1.5	2.2	4	4	9.2	18.5	22	30	45	55	90
	4p	0.25	0.55	1.1	1.85	3	4	9.2	15	22	30	45	55	90
	6p	0.12	0.37	0.75	1.1	1.85	2.2	5.5	11	15	18.5	30	37	55
		P63	P71	P80	P90	P100	P112	P132	P160	P180	P200	P225	P250	P280
C 12 2	i =	2.8_66.2		2.8_47.6		2.8_47.6								
C 22 2		3.7_63.3 ⊖ (7.1_8.7)		2.7_54.7		2.7_54.7								
C 22 3		60.0_261.0		60.0_261.0		60.0_261.0								
C 32 2		5.0_66.8 ⊖ (7.2_11.2)		2.9_66.8		2.9_66.8	2.9_25.1							
C 32 3		74.7_274.7		74.7_274.7		74.7_274.7								
C 36 2		4.6_19.0 ⊖ (6.8_10.6)		2.7_19.0		2.7_19.0	2.7_19.0							
C 36 3		38.1_206.4		22.1_206.4		22.1_206.4	22.1_77.6							
C 36 4		230.9_848.5		230.9_848.5		230.9_848.5								
C 41 2		14.2_44.8		2.7_44.8		2.7_44.8	2.7_31.4							
C 41 3		47.0_209.1		28.5_209.1		28.5_209.1	28.5_102.3							
C 41 4		239.9_855.5		239.9_855.5		239.9_855.5								
C 51 2		18.9_57.0		2.6_57.0		2.6_57.0	2.6_40.4	2.6_40.4	2.6_40.4					
C 51 3		59.0_216.7		21.8_216.7		21.8_216.7	21.8_124.4	21.8_124.4	21.8_124.4					
C 51 4		240.9_884.9		240.9_884.9		240.9_884.9								
C 61 2		22.4_38.0		3.7_38.0 ⊖ (6.7_7.5)		3.7_38.0 ⊖ (6.7_7.5)	2.8_38.0	2.8_38.0	2.8_38.0					
C 61 3		67.7_195.8		26.8_195.8		26.8_195.8	26.8_140.5	26.8_140.5	26.8_140.5					
C 61 4		217.4_796.1		217.4_796.1		217.4_796.1								
C 70 2				14.1_34.7 ⊖ (15.3)		14.1_34.7 ⊖ (15.3)	7.5_34.7 ⊖ (8.0)	4.6_34.7	4.6_34.7	4.6_10.2 ⊖ (9.5)				
C 70 3				41.3_239.3		41.3_239.3	41.3_137.4	41.3_137.4	41.3_137.4					
C 70 4		251.3_1476		251.3_1476		251.3_1476	251.3_554.7							
C 80 2				20.5_39.1		20.5_39.1	11.1_39.1	7.0_39.1	5.6_39.1	5.6_25.9	5.6_25.9			
C 80 3				43.5_215.8		43.5_215.8	43.5_184.4	43.5_184.4	43.5_184.4					
C 80 4		334.3_1481		261.9_1481		261.9_1481	261.9_724.7							
C 90 2				22.9_35.1		22.9_35.1	12.8_35.1	10.4_35.1	10.4_35.1	5.2_29.4	5.2_29.4	5.2_29.4		
C 90 3				74.4_172.1		74.4_172.1	39.4_172.1	39.4_172.1	39.4_172.1	39.4_96.2	39.4_96.2	39.4_96.2		
C 90 4		339.0_1240		212.4_1240		212.4_1240	212.4_712.2	212.4_712.2	212.4_712.2					
C 100 2						29.6	15.2_29.6	12.5_29.6	12.5_29.6	4.9_29.6	4.9_29.6	4.9_29.6	4.9_29.6	
C 100 3						79.4_150.4	42.9_150.4	34.3_150.4	34.3_150.4	34.3_99.8	34.3_99.8	34.3_99.8	34.3_99.8	
C 100 4		380.5_1081		162.1_1081		162.1_1081	162.1_775.7	162.1_775.7	162.1_775.7					

(#) P_{n1} = Máxima potencia instalable en la entrada P_—



(B 23)

								
		M0	M05	M1	M2	M3	M4	M5
C 05 2	i =	27.1_44.7	5.5_44.7	5.5_44.7				
C 12 2			2.8_66.2	2.8_37.0	2.8_47.7	2.8_47.7		
C 22 2			3.7_63.3 ⊖ (7.1_8.7)	3.7_43.3 ⊖ (7.1_8.7)	2.7_54.7	2.7_54.7		
C 22 3			60.0_261.0	60.0_261.0	60.0_261.0	60.0_261.0		
C 32 2				5.0_52.4 ⊖ (7.2_11.2)	2.9_66.8	2.9_66.8	2.9_25.1	
C 32 3			74.7_274.7	74.7_274.7	74.7_274.7	74.7_274.7		
C 36 2				4.6_19.0 ⊖ (6.8_10.6)	2.7_19.0	2.7_19.0	2.7_19.0	
C 36 3				38.1_162.0	22.1_206.4	22.1_206.4	22.1_77.6	
C 36 4			230.9_848.5	230.9_848.5	230.9_848.5	230.9_848.5		
C 41 2				14.2_44.8	2.7_44.8	2.7_44.8	2.7_31.4	
C 41 3				47.0_209.1	28.5_209.1	28.5_209.1	28.5_102.3	
C 41 4			239.9_855.5	239.9_855.5	239.9_855.5	239.9_855.5		
C 51 2				18.9_57.0	2.6_57.0	2.6_57.0	2.6_40.4	2.6_40.4
C 51 3				59.0_216.7	21.8_216.7	21.8_216.7	21.8_124.4	21.8_124.4
C 51 4				240.9_884.9	240.9_884.9	240.9_884.9		
C 61 2					3.7_38.0 ⊖ (6.7_7.5)	3.7_38.0 ⊖ (6.7_7.5)	2.8_38.0	2.8_38.0
C 61 3					26.8_195.8	26.8_195.8	26.8_140.5	26.8_140.5
C 61 4				217.4_796.1	217.4_796.1	217.4_796.1		
C 70 2					14.1_34.7 ⊖ (15.3)	14.1_34.7 ⊖ (15.3)	7.5_34.7 ⊖ (8.0)	7.5_34.7 ⊖ (8.0)
C 70 3					41.3_239.3	41.3_239.3	41.3_137.4	41.3_137.4
C 70 4				251.3_1476	251.3_1476	251.3_1476	251.3_554.7	
C 80 2						20.5_39.1	11.1_39.1	11.1_39.1
C 80 3						43.5_215.8	43.5_184.4	43.5_184.4
C 80 4				334.3_1481	261.9_1481	261.9_1481	261.9_724.7	
C 90 2						22.9_35.1	12.8_35.1	12.8_35.1
C 90 3						74.4_172.1	39.4_172.1	39.4_172.1
C 90 4				339.0_1240	212.4_1240	212.4_1240	212.4_712.2	
C 100 2							15.2_29.6	15.2_29.6
C 100 3							42.9_150.4	42.9_150.4
C 100 4				380.5_1081	162.1_1081	162.1_1081	162.1_775.7	



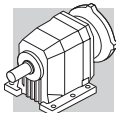
Predisposiciones motor que están disponibles para ser acoplados a reductores C12...C61 con servomotores de los tipos mas comunes. Las dimensiones de las bridas están indicadas en la sección de dimensiones de cada reductor. La sigla **SK** identifica la fijación con el eje del motor provisto de chavetero, mientras la sigla **SC** corresponde a la fijación mediante Aro de apriete (suministrado).

(B 24)

		SERVO INPUT							
		SK60A	SK60B	SK80A	SK80B	SK80C	SK95A	SK95B	SK95C
		SC60A	SC60B	SC80A	SC80B	SC80C	SC95A	SC95B	SC95C
C 12 2	i =	2.8_66.2	2.8_66.2	2.8_66.2		2.8_47.6	2.8_66.2	2.8_47.6	2.8_47.6
C 22 2		3.7_63.3 ⊖ (7.1_8.7)	3.7_63.3 ⊖ (7.1_8.7)	3.7_63.3 ⊖ (7.1_8.7)		2.7_54.7	3.7_63.3 ⊖ (7.1_8.7)	2.7_54.7	2.7_54.7
C 22 3		60.0_261.0	60.0_261.0	60.0_261.0		60.0_261.0	60.0_261.0	60.0_261.0	60.0_261.0
C 32 2		5.0_66.8 ⊖ (7.2_11.2)	5.0_66.8 ⊖ (7.2_11.2)	5.0_66.8 ⊖ (7.2_11.2)		2.9_66.8	5.0_66.8 ⊖ (7.2_11.2)	2.9_66.8	2.9_66.8
C 32 3		74.7_274.7	74.7_274.7	74.7_274.7		74.7_274.7	74.7_274.7	74.7_274.7	74.7_274.7
C 36 2		4.6_19.0 ⊖ (6.8_10.6)	4.6_19.0 ⊖ (6.8_10.6)	4.6_19.0 ⊖ (6.8_10.6)		2.7_19.0	4.6_19.0 ⊖ (6.8_10.6)	2.7_19.0	2.7_19.0
C 36 3		38.1_206.4	38.1_206.4	38.1_206.4		22.1_206.4	38.1_206.4	22.1_206.4	22.1_206.4
C 36 4		230.9_848.5	230.9_848.5	230.9_848.5		230.9_848.5	230.9_848.5	230.9_848.5	230.9_848.5
C 41 2					6.0_44.8 ⊖ (6.4_12.4)	2.7_44.8	6.0_44.8 ⊖ (6.4_12.4)	2.7_44.8	2.7_44.8
C 41 3					47.0_209.1	28.5_209.1	47.0_209.1	28.5_209.1	28.5_209.1
C 41 4		239.9_855.5	239.9_855.5	239.9_855.5		239.9_855.5	239.9_855.5	239.9_855.5	239.9_855.5
C 51 2					18.9_57.0	2.6_57.0	18.9_57.0	2.6_57.0	2.6_57.0
C 51 3					59.0_216.7	21.8_216.7	59.0_216.7	21.8_216.7	21.8_216.7
C 51 4						240.9_884.9	240.9_884.9	240.9_884.9	240.9_884.9
C 61 2						3.7_38.0 ⊖ (6.7_7.5)	22.4_38.0	3.7_38.0 ⊖ (6.7_7.5)	3.7_38.0 ⊖ (6.7_7.5)
C 61 3						26.8_195.8	67.7_195.8	26.8_195.8	26.8_195.8
C 61 4					217.4_796.1	217.4_796.1	217.4_796.1	217.4_796.1	217.4_796.1

(B 25)

		SK110A	SK110B	SK130A	SK130B	SK180A	SK180B
		SC110A	SC110B	SC130A	SC130B	SC180A	SC180B
C 12 2	i =	2.8_47.6	2.8_47.6				
C 22 2		2.7_54.7	2.7_54.7				
C 22 3		60.0_261.0	60.0_261.0				
C 32 2		2.9_66.8	2.9_66.8	2.9_66.8			
C 32 3		74.7_274.7	74.7_274.7				
C 36 2		2.7_19.0	2.7_19.0	2.7_19.0			
C 36 3		22.1_206.4	22.1_206.4	22.1_206.4			
C 36 4		230.9_848.5	230.9_848.5				
C 41 2		2.7_44.8	2.7_44.8	2.7_44.8	2.7_31.4	2.7_31.4	2.7_31.4
C 41 3		28.5_209.1	28.5_209.1	28.5_209.1	28.5_102.3	28.5_102.3	28.5_102.3
C 41 4		239.9_855.5	239.9_855.5				
C 51 2		2.6_57.0	2.6_57.0	2.6_57.0	2.6_40.4	2.6_40.4	2.6_40.4
C 51 3		21.8_216.7	21.8_216.7	21.8_216.7	21.8_124.4	21.8_124.4	21.8_124.4
C 51 4		240.9_884.9	240.9_884.9	240.9_884.9			
C 61 2		3.7_38.0 ⌀ (6.7_7.5)	3.7_38.0 ⌀ (6.7_7.5)	3.7_38.0 ⌀ (6.7_7.5)	2.8_38.0	2.8_38.0	2.8_38.0
C 61 3		26.8_195.8	26.8_195.8	26.8_195.8	26.8_140.5	26.8_140.5	26.8_140.5
C 61 4		217.4_796.1	217.4_796.1	217.4_796.1			



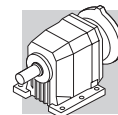
28 MOMENTO DE INERCIA

Las tablas siguientes indican los valores del momento de inercia J_r [kgm²] referidos al eje de entrada del reductor; para una mayor facilidad de lectura, a continuación se reproducen los significados de los símbolos utilizados.

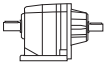
	Los valores relativos a este símbolo corresponden al reductor compacto sin motor. En este caso, para obtener el momento de inercia total del motorreductor, se sumará el valor correspondiente al reductor compacto, en la relación de reducción seleccionada, al valor de momento de inercia correspondiente al motor (dato que se obtiene de las tablas de características técnicas de los motores eléctricos).
IEC	Los valores relativos a este símbolo corresponden al reductor aislado, configurado para conexión de motor (medida IEC ...).
	Los valores correspondientes al reductor están asociados a este símbolo.
SERVO	Los valores relativos a estos símbolos se deben atribuir al reductor predispuesto para acoplarse a servomotores

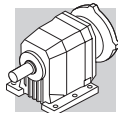
C 05

	i	J (•10 ⁻⁴) [kgm ²]
C 05_5.5	5.5	0.29
C 05_6.7	6.7	0.29
C 05_7.4	7.4	0.28
C 05_9.3	9.3	0.17
C 05_11.2	11.2	0.16
C 05_12.5	12.5	0.16
C 05_15.6	15.6	0.09
C 05_18.9	18.9	0.09
C 05_21.0	21.0	0.08
C 05_27.1	27.1	0.04
C 05_32.8	32.8	0.04
C 05_36.4	36.4	0.04
C 05_40.3	40.3	0.03
C 05_44.7	44.7	0.03



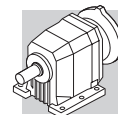
C 12

	i	J (•10 ⁻⁴) [kgm ²]							
			IEC 						
			63	71	80	90	100	112	
C 12 2_2.8	2.8	0.44	1.9	1.9	3.3	3.2	4.5	4.5	1.3
C 12 2_3.2	3.2	0.34	1.8	1.8	3.2	3.1	4.4	4.4	1.2
C 12 2_3.7	3.7	0.29	1.8	1.7	3.1	3.1	4.4	4.4	1.2
C 12 2_4.3	4.3	0.21	1.7	1.7	3.1	3.0	4.3	4.3	1.1
C 12 2_4.9	4.9	0.19	1.7	1.7	3.0	3.0	4.3	4.3	1.1
C 12 2_5.6	5.6	0.15	1.6	1.6	3.0	2.9	4.2	4.2	1.0
C 12 2_6.2	6.2	0.12	1.6	1.6	3.0	2.9	4.2	4.2	1.0
C 12 2_7.6	7.6	0.33	1.8	1.8	3.2	3.1	4.4	4.4	1.2
C 12 2_8.8	8.8	0.32	1.8	1.8	3.2	3.1	4.4	4.4	1.2
C 12 2_10.1	10.1	0.23	1.7	1.7	3.1	3.0	4.3	4.3	1.1
C 12 2_11.9	11.9	0.17	1.6	1.6	3.0	3.0	4.2	4.2	1.1
C 12 2_13.4	13.4	0.16	1.6	1.6	3.0	2.9	4.2	4.2	1.1
C 12 2_15.4	15.4	0.12	1.6	1.6	3.0	2.9	4.2	4.2	1.0
C 12 2_17.2	17.2	0.10	1.6	1.6	2.9	2.9	4.2	4.2	1.0
C 12 2_18.4	18.4	0.08	1.6	1.5	2.9	2.9	4.2	4.2	0.98
C 12 2_20.6	20.6	0.08	1.5	1.5	2.9	2.9	4.2	4.2	0.98
C 12 2_23.2	23.2	0.07	1.5	1.5	2.9	2.9	4.1	4.1	0.97
C 12 2_25.4	25.4	0.06	1.5	1.5	2.9	2.8	4.1	4.1	0.96
C 12 2_29.5	29.5	0.05	1.5	1.5	2.9	2.8	4.1	4.1	0.95
C 12 2_32.8	32.8	0.04	1.5	1.5	2.9	2.8	4.1	4.1	0.94
C 12 2_37.0	37.0	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 12 2_42.3	42.3	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 12 2_47.6	47.6	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 12 2_55.2	55.2	0.02	1.5	1.5	—	—	—	—	0.92
C 12 2_66.2	66.2	0.01	1.5	1.5	—	—	—	—	0.91

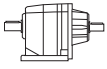


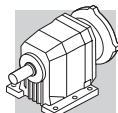
C 12

	i	J (•10 ⁻⁴) [kgm ²]									
		 SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 12 2_2.8	2.8	0.71	0.97	0.73	1.2	3.3	3.7	3.3	3.8	3.2	4.2
C 12 2_3.2	3.2	0.61	0.87	0.63	1.1	3.2	3.6	3.2	3.7	3.1	4.1
C 12 2_3.7	3.7	0.56	0.82	0.58	1.0	3.1	3.5	3.1	3.6	3.1	4.1
C 12 2_4.3	4.3	0.48	0.74	0.50	0.94	3.0	3.5	3.1	3.6	3.0	4.0
C 12 2_4.9	4.9	0.46	0.72	0.48	0.92	3.0	3.4	3.0	3.5	3.0	4.0
C 12 2_5.6	5.6	0.42	0.68	0.44	0.88	3.0	3.4	3.0	3.5	2.9	3.9
C 12 2_6.2	6.2	0.39	0.65	0.41	0.85	2.9	3.4	3.0	3.5	2.9	3.9
C 12 2_7.6	7.6	0.60	0.86	0.62	1.1	3.2	3.6	3.2	3.7	3.1	4.1
C 12 2_8.8	8.8	0.59	0.85	0.61	1.0	3.1	3.6	3.2	3.7	3.1	4.1
C 12 2_10.1	10.1	0.50	0.76	0.52	0.96	3.1	3.5	3.1	3.6	3.0	4.0
C 12 2_11.9	11.9	0.44	0.70	0.46	0.90	3.0	3.4	3.0	3.5	3.0	4.0
C 12 2_13.4	13.4	0.43	0.69	0.45	0.83	3.0	3.4	3.0	3.5	2.9	3.9
C 12 2_15.4	15.4	0.39	0.65	0.41	0.85	2.9	3.4	3.0	3.5	2.9	3.9
C 12 2_17.2	17.2	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.9	3.9
C 12 2_18.4	18.4	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.9	3.9
C 12 2_20.6	20.6	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.9	3.9
C 12 2_23.2	23.2	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.9	3.9
C 12 2_25.4	25.4	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.8	3.8
C 12 2_29.5	29.5	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8
C 12 2_32.8	32.8	0.34	0.60	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8
C 12 2_37.0	37.0	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 12 2_42.3	42.3	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 12 2_47.6	47.6	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
C 12 2_55.2	55.2	0.29	0.55	0.31	0.75	2.8	3.3	—	—	—	—
C 12 2_66.2	66.2	0.28	0.54	0.30	0.74	2.8	3.3	—	—	—	—



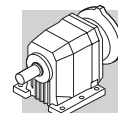
C 22

	i	J (•10 ⁻⁴) [kgm ²]							
			 IEC						
			63	71	80	90	100	112	
C 22 2_2.7	2.7	1.2	—	—	4.0	4.0	5.3	5.3	3.1
C 22 2_3.3	3.3	0.83	—	—	3.7	3.6	4.9	4.9	2.7
C 22 2_3.7	3.7	0.72	2.2	2.2	3.6	3.5	4.8	4.8	2.6
C 22 2_4.3	4.3	0.56	2.0	2.0	3.4	3.3	4.6	4.6	2.4
C 22 2_4.8	4.8	0.48	2.0	1.9	3.3	3.3	4.6	4.6	2.4
C 22 2_5.6	5.6	0.36	1.8	1.8	3.2	3.2	4.4	4.4	2.2
C 22 2_6.1	6.1	0.29	1.8	1.7	3.1	3.1	4.4	4.4	2.2
C 22 2_7.1	7.1	0.77	—	—	3.6	3.6	4.8	4.8	2.6
C 22 2_8.7	8.7	0.55	—	—	3.4	3.3	4.6	4.6	2.4
C 22 2_9.6	9.6	0.50	2.0	2.0	3.3	3.3	4.6	4.6	2.4
C 22 2_11.1	11.1	0.39	1.9	1.8	3.2	3.2	4.5	4.5	2.3
C 22 2_12.4	12.4	0.35	1.8	1.8	3.2	3.1	4.4	4.4	2.2
C 22 2_14.5	14.5	0.36	1.7	1.7	3.1	3.1	4.3	4.3	2.1
C 22 2_15.8	15.8	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.1
C 22 2_18.1	18.1	0.18	1.6	1.6	3.0	3.0	4.3	4.3	2.0
C 22 2_20.0	20.0	0.15	1.6	1.6	3.0	2.9	4.2	4.2	2.0
C 22 2_21.5	21.5	0.13	1.6	1.6	3.0	2.9	4.2	4.2	2.0
C 22 2_24.3	24.3	0.12	1.6	1.6	3.0	2.9	4.2	4.2	2.0
C 22 2_27.2	27.2	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
C 22 2_29.6	29.6	0.09	1.6	1.5	2.9	2.9	4.2	4.2	2.0
C 22 2_33.1	33.1	0.07	1.5	1.5	2.9	2.9	4.2	4.2	1.9
C 22 2_36.8	36.8	0.06	1.5	1.5	2.9	2.8	4.1	4.1	1.9
C 22 2_43.3	43.3	0.05	1.5	1.5	2.9	2.8	4.1	4.1	1.9
C 22 2_48.6	48.6	0.04	1.5	1.5	2.9	2.8	4.1	4.1	1.9
C 22 2_54.7	54.7	0.03	1.5	1.5	2.9	2.8	4.1	4.1	1.9
C 22 2_63.3	63.3	0.02	1.5	1.5	—	—	—	—	1.9
C 22 3_60.0	60.0	0.04	1.5	1.5	2.9	2.8	4.1	4.1	0.94
C 22 3_65.3	65.3	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_74.8	74.8	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_82.6	82.6	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_88.5	88.5	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_100.2	100.2	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_112.0	112.0	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_122.2	122.2	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.93
C 22 3_136.5	136.5	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_151.7	151.7	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_178.5	178.5	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_200.7	200.7	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_225.8	225.8	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92
C 22 3_261.0	261.0	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.92



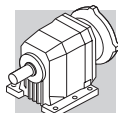
C 22

	i	J (•10 ⁻⁴) [kgm ²]									
		 SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 22 2_2.7	2.7	—	—	—	—	—	—	4.0	4.5	4.0	5.0
C 22 2_3.3	3.3	—	—	—	—	—	—	3.7	4.2	3.6	4.6
C 22 2_3.7	3.7	0.99	1.3	1.0	1.4	3.5	4.0	3.6	4.1	3.5	4.5
C 22 2_4.3	4.3	0.83	1.1	0.85	1.3	3.4	3.8	3.4	3.9	3.3	4.3
C 22 2_4.8	4.8	0.75	1.0	0.77	1.2	3.3	3.7	3.3	3.8	3.3	4.3
C 22 2_5.6	5.6	0.63	0.89	0.65	1.1	3.2	3.6	3.2	3.7	3.2	4.2
C 22 2_6.1	6.1	0.56	0.82	0.58	1.0	3.1	3.5	3.1	3.6	3.1	4.1
C 22 2_7.1	7.1	—	—	—	—	—	—	3.6	4.1	3.6	4.6
C 22 2_8.7	8.7	—	—	—	—	—	—	3.4	3.9	3.3	4.3
C 22 2_9.6	9.6	0.77	1.0	0.79	1.2	3.3	3.8	3.3	3.8	3.3	4.3
C 22 2_11.1	11.1	0.66	0.92	0.68	1.1	3.2	3.6	3.2	3.7	3.2	4.2
C 22 2_12.4	12.4	0.62	0.88	0.64	1.1	3.2	3.6	3.2	3.7	3.1	4.1
C 22 2_14.5	14.5	0.63	0.89	0.65	1.1	3.2	3.6	3.1	3.6	3.1	4.1
C 22 2_15.8	15.8	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
C 22 2_18.1	18.1	0.45	0.71	0.47	0.91	3.0	3.4	3.0	3.5	3.0	4.0
C 22 2_20.0	20.0	0.42	0.68	0.44	0.88	3.0	3.4	3.0	3.5	2.9	3.9
C 22 2_21.5	21.5	0.40	0.66	0.42	0.86	3.0	3.4	3.0	3.5	2.9	3.9
C 22 2_24.3	24.3	0.39	0.65	0.41	0.85	2.9	3.4	3.0	3.5	2.9	3.9
C 22 2_27.2	27.2	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
C 22 2_29.6	29.6	0.36	0.62	0.38	0.82	2.9	3.3	2.9	3.4	2.9	3.9
C 22 2_33.1	33.1	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.9	3.9
C 22 2_36.8	36.8	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.8	3.8
C 22 2_43.3	43.3	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8
C 22 2_48.6	48.6	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8
C 22 2_54.7	54.7	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 2_63.3	63.3	0.29	0.55	0.31	0.75	2.8	3.3	—	—	—	—
C 22 3_60.0	60.0	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_65.3	65.3	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_74.8	74.8	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_82.6	82.6	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_88.5	88.5	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_100.2	100.2	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_112.0	112.0	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_122.2	122.2	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
C 22 3_136.5	136.5	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
C 22 3_151.7	151.7	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
C 22 3_178.5	178.5	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
C 22 3_200.7	200.7	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
C 22 3_225.8	225.8	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
C 22 3_261.0	261.0	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8



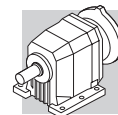
C 32

	i	J (•10-4) [kgm²]								
			 IEC							
			63	71	80	90	100	112	132	
C 32 2_2.9	2.9	2.3	—	—	5.2	5.1	6.4	6.4	20	4.6
C 32 2_3.4	3.4	1.8	—	—	4.6	4.6	5.9	5.9	20	4.0
C 32 2_3.7	3.7	1.6	—	—	4.4	4.3	5.6	5.6	20	3.8
C 32 2_4.5	4.5	1.2	—	—	4.0	4.0	5.2	5.2	19	3.4
C 32 2_5.0	5.0	0.87	2.3	2.3	3.7	3.7	5.0	5.0	19	3.1
C 32 2_5.7	5.7	0.82	2.3	2.3	3.7	3.6	4.9	4.9	19	3.0
C 32 2_6.3	6.3	0.63	2.1	2.1	3.5	3.4	4.7	4.7	18	2.8
C 32 2_7.2	7.2	1.5	—	—	4.4	4.3	5.6	5.6	19	3.7
C 32 2_8.5	8.5	1.2	—	—	4.1	4.0	5.3	5.3	19	3.4
C 32 2_9.3	9.3	1.1	—	—	3.9	3.9	5.1	5.1	19	3.3
C 32 2_11.2	11.2	0.83	—	—	3.7	3.6	4.9	4.9	19	3.0
C 32 2_12.3	12.3	0.60	2.1	2.1	3.4	3.4	4.7	4.7	18	2.8
C 32 2_14.1	14.1	0.61	2.1	2.1	3.5	3.4	4.7	4.7	18	2.8
C 32 2_15.6	15.6	0.46	1.9	1.9	3.3	3.2	4.5	4.5	18	2.7
C 32 2_18.2	18.2	0.42	1.9	1.9	3.3	3.2	4.5	4.5	18	2.6
C 32 2_20.1	20.1	0.34	1.8	1.8	3.2	3.1	4.4	4.4	18	2.6
C 32 2_22.9	22.9	0.31	1.8	1.8	3.2	3.1	4.4	4.4	17	2.5
C 32 2_25.1	25.1	0.25	1.7	1.7	3.1	3.0	4.3	4.3	17	2.5
C 32 2_26.9	26.9	0.24	1.7	1.7	3.1	3.0	4.3	4.3	—	2.5
C 32 2_29.8	29.8	0.19	1.7	1.7	3.0	3.0	4.3	4.3	—	2.4
C 32 2_33.1	33.1	0.19	1.7	1.7	3.0	3.0	4.3	4.3	—	2.4
C 32 2_36.1	36.1	0.14	1.6	1.6	3.0	2.9	4.2	4.2	—	2.4
C 32 2_40.7	40.7	0.14	1.6	1.6	3.0	2.9	4.2	4.2	—	2.4
C 32 2_45.3	45.3	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.3
C 32 2_52.4	52.4	0.08	1.6	1.6	2.9	2.9	4.2	4.2	—	2.3
C 32 2_59.4	59.4	0.07	1.5	1.5	2.9	2.9	4.2	4.2	—	2.3
C 32 2_66.8	66.8	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	2.3
C 32 3_74.7	74.7	0.06	1.5	1.5	2.9	2.9	4.1	4.1	—	0.96
C 32 3_82.6	82.6	0.06	1.5	1.5	2.9	2.8	4.1	4.1	—	0.96
C 32 3_94.2	94.2	0.06	1.5	1.5	2.9	2.8	4.1	4.1	—	0.96
C 32 3_103.3	103.3	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_110.6	110.6	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_122.4	122.4	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_136.0	136.0	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_148.4	148.4	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_167.4	167.4	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—	0.95
C 32 3_186.0	186.0	0.04	1.5	1.5	2.9	2.8	4.1	4.1	—	0.94
C 32 3_215.6	215.6	0.04	1.5	1.5	2.9	2.8	4.1	4.1	—	0.94
C 32 3_244.2	244.2	0.04	1.5	1.5	2.9	2.8	4.1	4.1	—	0.94
C 32 3_274.7	274.7	0.04	1.5	1.5	2.9	2.8	4.1	4.1	—	0.94



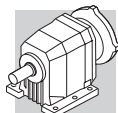
C 32

	i	J (•10 ⁻⁴) [kgm ²]											
		 SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 32 2_2.9	2.9	—	—	—	—	—	—	5.2	5.7	5.1	6.1	5.1	6.1
C 32 2_3.4	3.4	—	—	—	—	—	—	4.6	5.1	4.6	5.6	4.6	5.6
C 32 2_3.7	3.7	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
C 32 2_4.5	4.5	—	—	—	—	—	—	4.0	4.5	4.0	5.0	4.0	5.0
C 32 2_5.0	5.0	1.1	1.4	1.2	1.6	3.7	4.1	3.7	4.2	3.7	4.7	3.7	4.7
C 32 2_5.7	5.7	1.1	1.4	1.1	1.5	3.6	4.1	3.7	4.2	3.6	4.6	3.6	4.6
C 32 2_6.3	6.3	0.90	1.2	0.92	1.4	3.5	3.9	3.5	4.0	3.4	4.4	3.4	4.4
C 32 2_7.2	7.2	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
C 32 2_8.5	8.5	—	—	—	—	—	—	4.1	4.6	4.0	5.0	4.0	5.0
C 32 2_9.3	9.3	—	—	—	—	—	—	3.9	4.4	3.9	4.9	3.9	4.9
C 32 2_11.2	11.2	—	—	—	—	—	—	3.7	4.2	3.6	4.6	3.6	4.6
C 32 2_12.3	12.3	0.87	1.1	0.89	1.3	3.4	3.9	3.4	3.9	3.4	4.4	3.4	4.4
C 32 2_14.1	14.1	0.88	1.1	0.90	1.3	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4
C 32 2_15.6	15.6	0.73	0.99	0.75	1.2	3.3	3.7	3.3	3.8	3.2	4.2	3.2	4.2
C 32 2_18.2	18.2	0.69	0.95	0.71	1.1	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2
C 32 2_20.1	20.1	0.61	0.87	0.63	1.1	3.2	3.6	3.2	3.7	3.1	4.1	3.1	4.1
C 32 2_22.9	22.9	0.58	0.84	0.60	1.0	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1
C 32 2_25.1	25.1	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	3.0	4.0	3.0	4.0
C 32 2_26.9	26.9	0.51	0.77	0.53	0.97	3.1	3.5	3.1	3.6	3.0	4.0	3.0	4.0
C 32 2_29.8	29.8	0.46	0.72	0.48	0.92	3.0	3.4	3.0	3.5	3.0	4.0	3.0	4.0
C 32 2_33.1	33.1	0.46	0.72	0.48	0.92	3.0	3.4	3.0	3.5	3.0	4.0	3.0	4.0
C 32 2_36.1	36.1	0.41	0.67	0.43	0.87	3.0	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 32 2_40.7	40.7	0.41	0.67	0.43	0.87	3.0	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 32 2_45.3	45.3	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 32 2_52.4	52.4	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.9	3.9	2.9	3.9
C 32 2_59.4	59.4	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.9	3.9	2.9	3.9
C 32 2_66.8	66.8	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	2.8	3.8
C 32 3_74.7	74.7	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.9	3.9	—	—
C 32 3_82.6	82.6	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_94.2	94.2	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_103.3	103.3	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_110.6	110.6	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_122.4	122.4	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_136.0	136.0	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_148.4	148.4	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_167.4	167.4	0.32	0.58	0.34	0.78	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_186.0	186.0	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_215.6	215.6	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_244.2	244.2	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—
C 32 3_274.7	274.7	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—



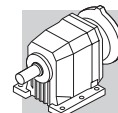
C 36

	i	J (•10 ⁻⁴) [kgm ²]								
			 IEC							
			63	71	80	90	100	112	132	
C 36 2_2.7	2.7	3.6	—	—	6.5	6.4	7.7	7.7	22	14
C 36 2_3.2	3.2	2.5	—	—	5.4	5.3	6.6	6.6	21	13
C 36 2_3.5	3.5	2.4	—	—	5.3	5.2	6.5	6.5	20	13
C 36 2_4.2	4.2	1.6	—	—	4.5	4.4	5.7	5.7	20	12
C 36 2_4.6	4.6	1.5	3.0	3.0	4.4	4.3	5.6	5.6	19	12
C 36 2_5.3	5.3	1.1	2.6	2.6	4.0	3.9	5.2	5.2	19	12
C 36 2_5.8	5.8	0.98	2.5	2.5	3.9	3.8	5.1	5.1	19	12
C 36 2_6.8	6.8	2.2	—	—	5.1	5.0	6.3	6.3	20	13
C 36 2_8.0	8.0	1.6	—	—	4.4	4.3	5.6	5.6	20	12
C 36 2_8.8	8.8	1.5	—	—	4.4	4.3	5.6	5.6	19	12
C 36 2_10.6	10.6	1.1	—	—	3.9	3.8	5.1	5.1	19	12
C 36 2_11.7	11.7	1.0	2.5	2.5	3.9	3.8	5.1	5.1	19	12
C 36 2_13.3	13.3	0.69	2.2	2.2	3.6	3.5	4.8	4.8	19	11
C 36 2_14.8	14.8	0.68	2.2	2.2	3.6	3.5	4.8	4.8	19	11
C 36 2_17.2	17.2	0.47	2.0	2.0	3.4	3.3	4.6	4.6	18	11
C 36 2_19.0	19.0	0.47	2.0	2.0	3.4	3.3	4.6	4.6	18	11
C 36 3_22.1	22.1	1.8	—	—	4.7	4.6	5.9	5.9	19	12
C 36 3_26.2	26.2	1.3	—	—	4.2	4.1	5.4	5.4	19	12
C 36 3_28.7	28.7	1.3	—	—	4.2	4.1	5.4	5.4	19	12
C 36 3_34.6	34.6	0.88	—	—	3.8	3.7	5.0	5.0	19	11
C 36 3_38.1	38.1	0.90	2.4	2.4	3.8	3.7	5.0	5.0	19	11
C 36 3_43.5	43.5	0.59	2.1	2.1	3.5	3.4	4.7	4.7	19	11
C 36 3_48.2	48.2	0.60	2.1	2.1	3.5	3.4	4.7	4.7	19	11
C 36 3_56.2	56.2	0.41	1.9	1.9	3.3	3.2	4.5	4.5	18	11
C 36 3_62.0	62.0	0.42	1.9	1.9	3.3	3.2	4.5	4.5	18	11
C 36 3_70.8	70.8	0.30	1.8	1.8	3.2	3.1	4.4	4.4	18	11
C 36 3_77.6	77.6	0.28	1.8	1.8	3.2	3.1	4.4	4.4	17	11
C 36 3_83.1	83.1	0.24	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 36 3_91.9	91.9	0.21	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 36 3_102.2	102.2	0.19	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 36 3_111.5	111.5	0.16	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 36 3_125.8	125.8	0.14	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 36 3_139.8	139.8	0.11	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 36 3_162.0	162.0	0.09	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 36 3_183.5	183.5	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 36 3_206.4	206.4	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 36 4_230.9	230.9	0.08	—	—	—	—	—	—	—	—
C 36 4_255.0	255.0	0.08	1.6	1.6	3.0	2.9	4.2	4.2	—	0.90
C 36 4_290.9	290.9	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	0.89
C 36 4_318.9	318.9	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	0.89
C 36 4_341.7	341.7	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	0.89
C 36 4_377.9	377.9	0.07	1.6	1.6	3.0	2.9	4.2	4.2	—	0.89
C 36 4_420.2	420.2	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
C 36 4_458.4	458.4	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
C 36 4_517.2	517.2	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
C 36 4_574.7	574.7	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
C 36 4_665.9	665.9	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
C 36 4_754.2	754.2	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88
C 36 4_848.5	848.5	0.06	1.6	1.6	3.0	2.9	4.2	4.2	—	0.88

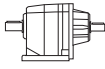


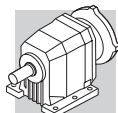
C 36

	i	J (•10 ⁻⁴) [kgm ²]											
		 SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 36 2_2.7	2.7	—	—	—	—	—	—	6.5	7.0	6.4	7.4	6.4	7.4
C 36 2_3.2	3.2	—	—	—	—	—	—	5.4	5.9	5.3	6.3	5.3	6.3
C 36 2_3.5	3.5	—	—	—	—	—	—	5.3	5.8	5.2	6.2	5.2	6.2
C 36 2_4.2	4.2	—	—	—	—	—	—	4.5	5.0	4.4	5.4	4.4	5.4
C 36 2_4.6	4.6	1.8	2.0	1.8	2.2	4.3	4.7	4.4	4.9	4.3	5.3	4.3	5.3
C 36 2_5.3	5.3	1.4	1.6	1.4	1.8	3.9	4.4	4.0	4.5	3.9	4.9	3.9	4.9
C 36 2_5.8	5.8	1.3	1.5	1.3	1.7	3.8	4.2	3.9	4.4	3.8	4.8	3.8	4.8
C 36 2_6.8	6.8	—	—	—	—	—	—	5.1	5.6	5.0	6.0	5.0	6.0
C 36 2_8.0	8.0	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
C 36 2_8.8	8.8	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
C 36 2_10.6	10.6	—	—	—	—	—	—	3.9	4.4	3.8	4.8	3.8	4.8
C 36 2_11.7	11.7	1.3	1.5	1.3	1.7	3.8	4.3	3.9	4.4	3.8	4.8	3.8	4.8
C 36 2_13.3	13.3	0.96	1.2	0.98	1.4	3.5	3.9	3.6	4.1	3.5	4.5	3.5	4.5
C 36 2_14.8	14.8	0.95	1.2	0.97	1.4	3.5	3.9	3.6	4.1	3.5	4.5	3.5	4.5
C 36 2_17.2	17.2	0.74	1.0	0.76	1.2	3.3	3.7	3.4	3.9	3.3	4.3	3.3	4.3
C 36 2_19.0	19.0	0.74	1.0	0.76	1.2	3.3	3.7	3.4	3.9	3.3	4.3	3.3	4.3
C 36 3_22.1	22.1	—	—	—	—	—	—	4.7	5.2	4.6	5.6	4.6	5.6
C 36 3_26.2	26.2	—	—	—	—	—	—	4.2	4.7	4.1	5.1	4.1	5.1
C 36 3_28.7	28.7	—	—	—	—	—	—	4.2	4.7	4.1	5.1	4.1	5.1
C 36 3_34.6	34.6	—	—	—	—	—	—	3.8	4.3	3.7	4.7	3.7	4.7
C 36 3_38.1	38.1	1.2	1.4	1.2	1.6	3.7	4.2	3.8	4.3	3.7	4.7	3.7	4.7
C 36 3_43.5	43.5	0.86	1.1	0.88	1.3	3.4	3.8	3.5	4.0	3.4	4.4	3.4	4.4
C 36 3_48.2	48.2	0.87	1.1	0.89	1.3	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4
C 36 3_56.2	56.2	0.68	0.94	0.70	1.1	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2
C 36 3_62.0	62.0	0.69	0.95	0.71	1.1	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2
C 36 3_70.8	70.8	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1
C 36 3_77.6	77.6	0.55	0.81	0.57	1.0	3.1	3.5	3.2	3.7	3.1	4.1	3.1	4.1
C 36 3_83.1	83.1	0.51	0.77	0.53	0.97	3.1	3.5	3.1	3.6	3.0	4.0	3.0	4.0
C 36 3_91.9	91.9	0.48	0.74	0.50	0.94	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0
C 36 3_102.2	102.2	0.46	0.72	0.48	0.92	3.0	3.4	3.1	3.6	3.0	4.0	3.0	4.0
C 36 3_111.5	111.5	0.43	0.69	0.45	0.89	3.0	3.4	3.1	3.6	3.0	4.0	3.0	4.0
C 36 3_125.8	125.8	0.41	0.67	0.43	0.87	3.0	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 36 3_139.8	139.8	0.38	0.64	0.40	0.84	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
C 36 3_162.0	162.0	0.36	0.62	0.38	0.82	2.9	3.3	3.0	3.5	2.9	3.9	2.9	3.9
C 36 3_183.5	183.5	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	2.9	3.9
C 36 3_206.4	206.4	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	2.9	3.9
C 36 4_230.9	230.9	0.35	0.61	0.37	0.81	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_255.0	255.0	0.35	0.61	0.37	0.81	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_290.9	290.9	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_318.9	318.9	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_341.7	341.7	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_377.9	377.9	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_420.2	420.2	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_458.4	458.4	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_517.2	517.2	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_574.7	574.7	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_665.9	665.9	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_754.2	754.2	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
C 36 4_848.5	848.5	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—



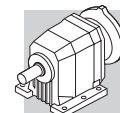
C 41

	i	J (•10 ⁻⁴) [kgm ²]								
			 IEC							
			63	71	80	90	100	112	132	
C 41 2_2.7	2.7	10	—	—	13	13	14	14	29	21
C 41 2_3.6	3.6	6.0	—	—	8.9	8.8	10	10	25	17
C 41 2_4.7	4.7	3.7	—	—	6.6	6.5	7.8	7.8	23	14
C 41 2_6.0	6.0	2.5	—	—	5.4	5.3	6.6	6.6	21	13
C 41 2_6.4	6.4	4.3	—	—	7.2	7.1	8.4	8.4	23	15
C 41 2_7.1	7.1	4.1	—	—	7.0	6.9	8.2	8.2	23	15
C 41 2_8.6	8.6	2.9	—	—	5.8	5.7	7.0	7.0	22	13
C 41 2_9.6	9.6	2.8	—	—	5.7	5.6	6.9	6.9	22	13
C 41 2_11.2	11.2	1.8	—	—	4.7	4.6	5.9	5.9	21	12
C 41 2_12.4	12.4	1.8	—	—	4.7	4.6	5.9	5.9	21	12
C 41 2_14.2	14.2	1.4	2.9	2.9	4.3	4.2	5.5	5.5	20	12
C 41 2_15.8	15.8	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	12
C 41 2_17.8	17.8	1.0	2.5	2.5	3.9	3.8	5.1	5.1	20	12
C 41 2_19.8	19.8	0.98	2.5	2.5	3.9	3.8	5.1	5.1	20	12
C 41 2_22.6	22.6	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	11
C 41 2_25.0	25.0	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	11
C 41 2_28.3	28.3	0.44	1.9	1.9	3.3	3.2	4.5	4.5	19	11
C 41 2_31.4	31.4	0.43	1.9	1.9	3.3	3.2	4.5	4.5	19	11
C 41 2_33.4	33.4	0.34	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 2_37.1	37.1	0.33	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 2_44.8	44.8	0.27	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_28.5	28.5	2.5	—	—	5.4	5.3	6.6	6.6	21	13
C 41 3_31.2	31.2	2.5	—	—	5.4	5.3	6.6	6.6	21	13
C 41 3_36.8	36.8	1.6	—	—	4.5	4.4	5.7	5.7	21	12
C 41 3_40.3	40.3	1.6	—	—	4.5	4.4	5.7	5.7	21	12
C 41 3_47.0	47.0	1.2	2.7	2.7	4.1	4.0	5.3	5.3	20	12
C 41 3_51.5	51.5	1.2	2.7	2.7	4.1	4.0	5.3	5.3	20	12
C 41 3_58.7	58.7	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	11
C 41 3_64.3	64.3	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	11
C 41 3_74.4	74.4	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	11
C 41 3_81.5	81.5	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	11
C 41 3_93.9	93.9	0.40	1.9	1.9	3.3	3.2	4.5	4.5	19	11
C 41 3_102.3	102.3	0.40	1.9	1.9	3.3	3.2	4.5	4.5	19	11
C 41 3_110.1	110.1	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_120.6	120.6	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_132.9	132.9	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_145.6	145.6	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	11
C 41 3_164.1	164.1	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 41 3_179.9	179.9	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	11
C 41 3_190.8	190.8	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 41 3_209.1	209.1	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	11
C 41 4_239.9	239.9	0.15	1.7	1.7	3.1	3.0	4.3	4.3	—	2.1
C 41 4_263.0	263.0	0.15	1.7	1.7	3.1	3.0	4.3	4.3	—	2.1
C 41 4_304.2	304.2	0.13	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_333.4	333.4	0.13	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_382.0	382.0	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_419.0	419.0	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_450.2	450.2	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_493.5	493.5	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_543.5	543.5	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_595.8	595.8	0.12	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_671.3	671.3	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_735.9	735.9	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_780.4	780.4	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0
C 41 4_855.5	855.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	—	2.0

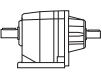


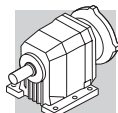
C 41

	i	J ($\cdot 10^{-4}$) [kgm ²]																	
		 SERVO																	
		60A		60B 80A		80B		95A		80C 95B 110A		95C 110B		130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 41 2_2.7	2.7	—	—	—	—	—	—	—	—	13	14	13	14	13	14	27	29	29	34
C 41 2_3.6	3.6	—	—	—	—	—	—	—	—	8.9	9.4	8.8	9.8	8.8	9.8	23	25	25	30
C 41 2_4.7	4.7	—	—	—	—	—	—	—	—	6.6	7.1	6.5	7.5	6.5	7.5	21	23	23	28
C 41 2_6.0	6.0	—	—	—	—	5.3	5.8	5.3	5.8	5.4	5.9	5.3	6.3	5.3	6.3	19	22	21	26
C 41 2_6.4	6.4	—	—	—	—	—	—	—	—	7.2	7.7	7.1	8.1	7.1	8.1	21	24	23	28
C 41 2_7.1	7.1	—	—	—	—	—	—	—	—	7.0	7.5	6.9	7.9	6.9	7.9	21	24	23	28
C 41 2_8.6	8.6	—	—	—	—	—	—	—	—	5.8	6.3	5.7	6.7	5.7	6.7	20	22	22	27
C 41 2_9.6	9.6	—	—	—	—	—	—	—	—	5.7	6.2	5.6	6.6	5.6	6.6	20	22	22	27
C 41 2_11.2	11.2	—	—	—	—	—	—	—	—	4.7	5.2	4.6	5.6	4.6	5.6	19	21	21	26
C 41 2_12.4	12.4	—	—	—	—	—	—	—	—	4.7	5.2	4.6	5.6	4.6	5.6	19	21	21	26
C 41 2_14.2	14.2	—	—	—	—	4.2	4.7	4.2	4.7	4.3	4.8	4.2	5.2	4.2	5.2	18	21	20	25
C 41 2_15.8	15.8	—	—	—	—	4.1	4.6	4.1	4.6	4.2	4.7	4.1	5.1	4.1	5.1	18	21	20	25
C 41 2_17.8	17.8	—	—	—	—	3.8	5.3	3.8	5.3	3.9	4.4	3.8	4.8	3.8	4.8	18	20	20	25
C 41 2_19.8	19.8	—	—	—	—	3.8	4.2	3.8	4.2	3.9	4.4	3.8	4.8	3.8	4.8	18	20	20	25
C 41 2_22.6	22.6	—	—	—	—	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4	18	20	20	25
C 41 2_25.0	25.0	—	—	—	—	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4	18	20	20	25
C 41 2_28.3	28.3	—	—	—	—	3.3	3.7	3.3	3.7	3.3	3.8	3.2	4.2	3.2	4.2	17	20	19	24
C 41 2_31.4	31.4	—	—	—	—	3.3	3.7	3.3	3.7	3.3	3.8	3.2	4.2	3.2	4.2	17	20	19	24
C 41 2_33.4	33.4	—	—	—	—	3.2	3.6	3.2	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 2_37.1	37.1	—	—	—	—	3.2	3.6	3.2	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 2_44.8	44.8	—	—	—	—	3.1	3.5	3.1	3.5	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 3_28.5	28.5	—	—	—	—	—	—	—	—	5.4	5.9	5.3	6.3	5.3	6.3	19	22	21	26
C 41 3_31.2	31.2	—	—	—	—	—	—	—	—	5.4	5.9	5.3	6.3	5.3	6.3	19	22	21	26
C 41 3_36.8	36.8	—	—	—	—	—	—	—	—	4.5	5.0	4.4	5.4	4.4	5.4	19	21	21	26
C 41 3_40.3	40.3	—	—	—	—	—	—	—	—	4.5	5.0	4.4	5.4	4.4	5.4	19	21	21	26
C 41 3_47.0	47.0	—	—	—	—	4.0	4.5	4.0	4.5	4.1	4.6	4.0	5.0	4.0	5.0	18	21	20	25
C 41 3_51.5	51.5	—	—	—	—	4.0	4.5	4.0	4.5	4.1	4.6	4.0	5.0	4.0	5.0	18	21	20	25
C 41 3_58.7	58.7	—	—	—	—	3.7	4.2	3.7	4.2	3.8	4.3	3.7	4.7	3.7	4.7	18	20	20	25
C 41 3_64.3	64.3	—	—	—	—	3.7	4.2	3.7	4.2	3.8	4.3	3.7	4.7	3.7	4.7	18	20	20	25
C 41 3_74.4	74.4	—	—	—	—	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4	18	20	20	25
C 41 3_81.5	81.5	—	—	—	—	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4	18	20	20	25
C 41 3_93.9	93.9	—	—	—	—	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2	17	20	19	24
C 41 3_102.3	102.3	—	—	—	—	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2	17	20	19	24
C 41 3_110.1	110.1	—	—	—	—	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 3_120.6	120.6	—	—	—	—	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 3_132.9	132.9	—	—	—	—	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 3_145.6	145.6	—	—	—	—	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
C 41 3_164.1	164.1	—	—	—	—	3.0	3.5	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0	—	—	—	—
C 41 3_179.9	179.9	—	—	—	—	3.0	3.5	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0	—	—	—	—
C 41 3_190.8	190.8	—	—	—	—	2.9	3.4	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9	—	—	—	—
C 41 3_209.1	209.1	—	—	—	—	2.9	3.4	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9	—	—	—	—
C 41 4_239.9	239.9	0.42	0.68	0.44	0.88	—	—	3.0	3.4	3.1	3.6	3.0	4.0	—	—	—	—	—	—
C 41 4_263.0	263.0	0.42	0.68	0.44	0.88	—	—	3.0	3.4	3.1	3.6	3.0	4.0	—	—	—	—	—	—
C 41 4_304.2	304.2	0.40	0.66	0.42	0.86	—	—	3.0	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_333.4	333.4	0.40	0.66	0.42	0.86	—	—	3.0	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_382.0	382.0	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_419.0	419.0	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_450.2	450.2	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_493.5	493.5	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_543.5	543.5	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_595.8	595.8	0.39	0.65	0.41	0.85	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_671.3	671.3	0.37	0.63	0.39	0.83	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_735.9	735.9	0.37	0.63	0.39	0.83	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_780.4	780.4	0.37	0.63	0.39	0.83	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—
C 41 4_855.5	855.5	0.37	0.63	0.39	0.83	—	—	2.9	3.4	3.0	3.5	2.9	3.9	—	—	—	—	—	—



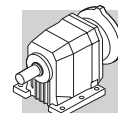
C 51

	i	J (•10 ⁻⁴) [kgm ²]										
			 IEC									
			63	71	80	90	100	112	132	160	180	
C 51 2_2.6	2.6	15	—	—	17	17	19	19	33	79	76	25
C 51 2_3.3	3.3	10	—	—	13	13	14	14	29	75	72	21
C 51 2_4.5	4.5	6.3	—	—	9.2	9.1	10	10	25	71	68	17
C 51 2_5.6	5.6	4.1	—	—	7.0	6.9	8.2	8.2	23	69	66	15
C 51 2_7.0	7.0	8.1	—	—	11	11	12	12	27	73	70	19
C 51 2_7.8	7.8	7.8	—	—	11	11	12	12	27	73	70	18
C 51 2_8.8	8.8	6.0	—	—	8.9	8.8	10	10	25	71	68	17
C 51 2_9.8	9.8	5.8	—	—	8.7	8.6	9.9	9.9	25	71	68	16
C 51 2_11.8	11.8	4.1	—	—	7.0	6.9	8.2	8.2	23	69	66	15
C 51 2_13.1	13.1	4.0	—	—	6.9	6.8	8.1	8.1	23	69	66	15
C 51 2_15.0	15.0	2.7	—	—	5.6	5.5	6.8	6.8	22	68	65	13
C 51 2_16.6	16.6	2.6	—	—	5.5	5.4	6.7	6.7	22	68	65	13
C 51 2_18.9	18.9	2.0	3.5	3.5	4.9	4.8	6.1	6.1	21	67	64	13
C 51 2_21.0	21.0	1.9	3.4	3.4	4.8	4.7	6.0	6.0	21	67	64	12
C 51 2_23.4	23.4	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	66	63	12
C 51 2_25.9	25.9	1.4	2.9	2.9	4.3	4.2	5.5	5.5	20	66	63	12
C 51 2_29.8	29.8	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	66	63	11
C 51 2_33.0	33.0	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	66	63	11
C 51 2_36.4	36.4	0.70	2.2	2.2	3.6	3.5	4.8	4.8	20	66	63	11
C 51 2_40.4	40.4	0.70	2.2	2.2	3.6	3.5	4.8	4.8	20	66	63	11
C 51 2_43.1	43.1	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 51 2_47.8	47.8	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 51 2_51.4	51.4	0.40	1.9	1.9	3.3	3.2	4.5	4.5	—	—	—	11
C 51 2_57.0	57.0	0.40	1.9	1.9	3.3	3.2	4.5	4.5	—	—	—	11
C 51 3_21.8	21.8	6.8	—	—	9.7	9.6	11	11	26	72	69	17
C 51 3_23.9	23.9	6.8	—	—	9.7	9.6	11	11	26	72	69	17
C 51 3_27.4	27.4	5.2	—	—	8.1	8.0	9.3	9.3	24	70	67	16
C 51 3_30.1	30.1	5.2	—	—	8.1	8.0	9.3	9.3	24	70	67	16
C 51 3_37.0	37.0	3.6	—	—	6.5	6.4	7.7	7.7	23	69	66	14
C 51 3_40.5	40.5	3.6	—	—	6.5	6.4	7.7	7.7	23	69	66	14
C 51 3_46.7	46.7	2.4	—	—	5.3	5.2	6.5	6.5	21	67	64	13
C 51 3_51.2	51.2	2.4	—	—	5.3	5.2	6.5	6.5	21	67	64	13
C 51 3_59.0	59.0	1.8	3.3	3.3	4.7	4.6	5.9	5.9	21	67	64	12
C 51 3_64.6	64.6	1.8	3.3	3.3	4.7	4.6	5.9	5.9	21	67	64	12
C 51 3_72.9	72.9	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	66	63	12
C 51 3_79.9	79.9	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	66	63	12
C 51 3_93.0	93.0	0.80	2.3	2.3	3.7	3.6	4.9	4.9	20	66	63	11
C 51 3_101.8	101.8	0.80	2.3	2.3	3.7	3.6	4.9	4.9	20	66	63	11
C 51 3_113.6	113.6	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	66	63	11
C 51 3_124.4	124.4	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	66	63	11
C 51 3_134.6	134.6	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 51 3_147.4	147.4	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 51 3_160.5	160.5	0.40	1.9	1.9	3.3	3.2	4.5	4.5	—	—	—	11
C 51 3_175.8	175.8	0.40	1.9	1.9	3.3	3.2	4.5	4.5	—	—	—	11
C 51 3_197.9	197.9	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	11
C 51 3_216.7	216.7	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	11
C 51 4_240.9	240.9	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	1.2
C 51 4_263.8	263.8	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	1.2
C 51 4_297.8	297.8	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	1.2
C 51 4_326.1	326.1	0.30	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	1.2
C 51 4_380.0	380.0	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_416.0	416.0	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_463.9	463.9	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_508.0	508.0	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_549.7	549.7	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_602.0	602.0	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_655.4	655.4	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_717.7	717.7	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_808.0	808.0	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1
C 51 4_884.9	884.9	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	1.1



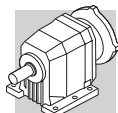
C 51

	i	J ($\cdot 10^{-4}$) [kgm ²]											
		 SERVO											
		80B		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 51 2_2.6	2.6	—	—	—	—	17	18	17	18	32	34	33	38
C 51 2_3.3	3.3	—	—	—	—	13	14	13	14	27	29	29	34
C 51 2_4.5	4.5	—	—	—	—	9.2	9.7	9.1	10	23	26	25	30
C 51 2_5.6	5.6	—	—	—	—	7.0	7.5	6.9	7.9	21	24	23	28
C 51 2_7.0	7.0	—	—	—	—	11	12	11	12	25	28	27	32
C 51 2_7.8	7.8	—	—	—	—	11	12	11	12	25	27	27	32
C 51 2_8.8	8.8	—	—	—	—	8.9	9.4	8.8	9.8	23	25	25	30
C 51 2_9.8	9.8	—	—	—	—	8.7	9.2	8.6	9.6	23	25	25	30
C 51 2_11.8	11.8	—	—	—	—	7.0	7.5	6.9	7.9	21	24	23	28
C 51 2_13.1	13.1	—	—	—	—	6.9	7.4	6.8	7.8	21	23	23	28
C 51 2_15.0	15.0	—	—	—	—	5.6	6.1	5.5	6.5	20	22	22	27
C 51 2_16.6	16.6	—	—	—	—	5.5	6.0	5.4	6.4	20	22	22	27
C 51 2_18.9	18.9	4.8	5.3	4.8	5.3	4.9	5.4	4.8	5.8	19	21	21	26
C 51 2_21.0	21.0	4.7	5.2	4.7	5.2	4.8	5.3	4.7	5.7	19	21	21	26
C 51 2_23.4	23.4	4.3	4.8	4.3	4.8	4.4	4.3	4.3	5.3	18	21	20	25
C 51 2_25.9	25.9	4.2	4.7	4.2	4.7	4.3	4.8	4.2	5.2	18	21	20	25
C 51 2_29.8	29.8	3.7	4.2	3.7	4.2	3.8	4.3	3.7	4.7	18	20	20	25
C 51 2_33.0	33.0	3.7	4.2	3.7	4.2	3.8	4.3	3.7	4.7	18	20	20	25
C 51 2_36.4	36.4	3.5	4.0	3.5	4.0	3.6	4.1	3.5	4.5	18	20	20	25
C 51 2_40.4	40.4	3.5	4.0	3.5	4.0	3.6	4.1	3.5	4.5	18	20	20	25
C 51 2_43.1	43.1	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 51 2_47.8	47.8	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 51 2_51.4	51.4	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	—	—	—	—
C 51 2_57.0	57.0	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	—	—	—	—
C 51 3_21.8	21.8	—	—	—	—	9.7	10	9.6	11	24	26	26	31
C 51 3_23.9	23.9	—	—	—	—	9.7	10	9.6	11	24	26	26	31
C 51 3_27.4	27.4	—	—	—	—	8.1	8.6	8.0	9.0	22	25	24	29
C 51 3_30.1	30.1	—	—	—	—	8.1	8.6	8.0	9.0	22	25	24	29
C 51 3_37.0	37.0	—	—	—	—	6.5	7.0	6.4	7.4	21	23	23	28
C 51 3_40.5	40.5	—	—	—	—	6.5	7.0	6.4	7.4	21	23	23	28
C 51 3_46.7	46.7	—	—	—	—	5.3	5.8	5.2	6.2	19	22	21	26
C 51 3_51.2	51.2	—	—	—	—	5.3	5.8	5.2	6.2	19	22	21	26
C 51 3_59.0	59.0	4.6	5.1	4.6	5.1	4.7	5.2	4.6	5.6	19	21	21	26
C 51 3_64.6	64.6	4.6	5.1	4.6	5.1	4.7	5.2	4.6	5.6	19	21	21	26
C 51 3_72.9	72.9	4.1	4.6	4.1	4.6	4.2	5.2	4.1	5.1	18	21	20	25
C 51 3_79.9	79.9	4.1	4.6	4.1	4.6	4.2	5.2	4.1	5.1	18	21	20	25
C 51 3_93.0	93.0	3.6	4.1	3.6	4.1	3.7	4.2	3.6	4.6	18	20	20	25
C 51 3_101.8	101.8	3.6	4.1	3.6	4.1	3.7	4.2	3.6	4.6	18	20	20	25
C 51 3_113.6	113.6	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	18	20	20	25
C 51 3_124.4	124.4	3.4	3.9	3.4	3.9	3.5	4.0	3.4	4.4	18	20	20	25
C 51 3_134.6	134.6	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 51 3_147.4	147.4	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 51 3_160.5	160.5	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	—	—	—	—
C 51 3_175.8	175.8	3.2	3.7	3.2	3.7	3.3	3.8	3.2	4.2	—	—	—	—
C 51 3_197.9	197.9	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 3_216.7	216.7	3.1	3.6	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_240.9	240.9	—	—	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_263.8	263.8	—	—	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_297.8	297.8	—	—	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_326.1	326.1	—	—	3.1	3.6	3.2	3.7	3.1	4.1	—	—	—	—
C 51 4_380.0	380.0	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_416.0	416.0	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_463.9	463.9	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_508.0	508.0	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_549.7	549.7	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_602.0	602.0	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_655.4	655.4	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_717.7	717.7	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_808.0	808.0	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—
C 51 4_884.9	884.9	—	—	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—



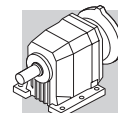
C 61

	i	J (•10 ⁻⁴) [kgm ²]										
			 IEC									
			63	71	80	90	100	112	132	160	180	
C 61 2_2.8	2.8	30	—	—	—	—	—	—	49	78	76	52
C 61 2_3.7	3.7	19	—	—	22	22	23	23	38	78	76	41
C 61 2_4.6	4.6	14	—	—	17	17	18	18	33	78	76	36
C 61 2_6.0	6.0	8.8	—	—	12	12	13	13	28	78	76	31
C 61 2_6.7	6.7	14	—	—	—	—	—	—	33	78	76	36
C 61 2_7.5	7.5	13	—	—	—	—	—	—	32	78	76	35
C 61 2_8.8	8.8	13	—	—	16	16	17	17	32	78	76	35
C 61 2_9.8	9.8	12	—	—	15	15	16	16	31	78	76	34
C 61 2_10.9	10.9	9.6	—	—	13	12	14	14	29	78	76	31
C 61 2_12.1	12.1	9.2	—	—	12	12	13	13	28	78	76	31
C 61 2_14.3	14.3	5.8	—	—	8.7	8.6	9.9	9.9	25	78	76	28
C 61 2_15.9	15.9	5.6	—	—	8.5	8.4	9.7	9.7	25	78	76	27
C 61 2_17.7	17.7	4.4	—	—	7.3	7.2	8.5	8.5	23	78	76	26
C 61 2_19.6	19.6	4.3	—	—	7.2	7.1	8.4	8.4	23	78	76	26
C 61 2_22.4	22.4	3.2	4.7	4.7	6.1	6.0	7.3	7.3	22	78	76	25
C 61 2_24.8	24.8	3.1	4.6	4.6	6.0	5.9	7.2	7.2	22	78	76	25
C 61 2_27.4	27.4	2.1	3.6	3.6	5.0	4.9	6.2	6.2	21	78	76	24
C 61 2_30.4	30.4	2.2	3.7	3.7	5.1	5.0	6.3	6.3	21	78	76	24
C 61 2_34.2	34.2	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	78	76	23
C 61 2_38.0	38.0	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	78	76	23
C 61 3_26.8	26.8	10	—	—	13	13	14	14	29	78	76	32
C 61 3_29.4	29.4	10	—	—	13	13	14	14	29	78	76	32
C 61 3_33.0	33.0	8.1	—	—	11	11	12	12	27	78	76	30
C 61 3_36.1	36.1	8.1	—	—	11	11	12	12	27	78	76	30
C 61 3_43.4	43.4	5.0	—	—	7.9	7.8	9.1	9.1	24	78	76	27
C 61 3_47.6	47.6	5.0	—	—	7.9	7.8	9.1	9.1	24	78	76	27
C 61 3_53.5	53.5	3.9	—	—	6.8	6.7	8.0	8.0	23	78	76	26
C 61 3_58.6	58.6	3.8	—	—	6.7	6.6	7.9	7.9	23	78	76	26
C 61 3_67.7	67.7	2.8	4.3	4.3	5.7	5.6	6.9	6.9	22	78	76	25
C 61 3_74.2	74.2	2.8	4.3	4.3	5.7	5.6	6.9	6.9	22	78	76	25
C 61 3_83.0	83.0	1.9	3.4	3.4	4.8	4.7	6.0	6.0	21	78	76	24
C 61 3_91.0	91.0	1.9	3.4	3.4	4.8	4.7	6.0	6.0	21	78	76	24
C 61 3_103.6	103.6	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	78	76	23
C 61 3_113.6	113.6	1.3	2.8	2.8	4.2	4.1	5.4	5.4	20	78	76	23
C 61 3_128.1	128.1	1.0	2.5	2.5	3.9	3.8	5.1	5.1	20	78	76	23
C 61 3_140.5	140.5	1.0	2.5	2.5	3.9	3.8	5.1	5.1	20	78	76	23
C 61 3_150.0	150.0	0.70	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	23
C 61 3_164.5	164.5	0.70	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	23
C 61 3_178.6	178.6	0.60	2.1	2.1	3.5	3.4	4.7	4.7	—	—	—	22
C 61 3_195.8	195.8	0.60	2.1	2.1	3.5	3.4	4.7	4.7	—	—	—	22
C 61 4_217.4	217.4	0.67	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	11
C 61 4_238.3	238.3	0.67	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	11
C 61 4_275.3	275.3	0.81	2.3	2.3	3.7	3.6	4.9	4.9	—	—	—	11
C 61 4_301.7	301.7	0.81	2.3	2.3	3.7	3.6	4.9	4.9	—	—	—	11
C 61 4_337.7	337.7	0.56	2.1	2.1	3.5	3.4	4.7	4.7	—	—	—	11
C 61 4_370.1	370.1	0.56	2.1	2.1	3.5	3.4	4.7	4.7	—	—	—	11
C 61 4_421.5	421.5	0.53	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_462.0	462.0	0.53	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_521.1	521.1	0.51	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_571.2	571.2	0.51	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_610.1	610.1	0.49	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_668.8	668.8	0.49	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_726.3	726.3	0.48	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
C 61 4_796.1	796.1	0.48	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11



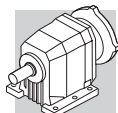
C 61

	i	J ($\cdot 10^{-4}$) [kgm ²]											
		 SERVO											
		80B		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
C 61 2_2.8	2.8	—	—	—	—	—	—	—	—	47	49	49	54
C 61 2_3.7	3.7	—	—	—	—	22	23	22	23	36	38	38	43
C 61 2_4.6	4.6	—	—	—	—	17	18	17	18	31	33	33	38
C 61 2_6.0	6.0	—	—	—	—	12	13	12	13	26	28	28	33
C 61 2_6.7	6.7	—	—	—	—	—	—	—	—	31	33	33	38
C 61 2_7.5	7.5	—	—	—	—	—	—	—	—	30	32	32	37
C 61 2_8.8	8.8	—	—	—	—	16	17	16	17	30	32	32	37
C 61 2_9.8	9.8	—	—	—	—	15	16	15	16	23	31	31	36
C 61 2_10.9	10.9	—	—	—	—	13	14	12	13	27	29	29	34
C 61 2_12.1	12.1	—	—	—	—	12	13	12	13	26	29	28	33
C 61 2_14.3	14.3	—	—	—	—	8.7	9.2	8.6	9.6	23	25	25	30
C 61 2_15.9	15.9	—	—	—	—	8.5	9.0	8.4	9.4	23	25	25	30
C 61 2_17.7	17.7	—	—	—	—	7.3	7.8	7.2	8.2	21	24	23	28
C 61 2_19.6	19.6	—	—	—	—	7.2	7.7	7.1	8.1	21	24	23	28
C 61 2_22.4	22.4	—	—	6.0	6.5	6.1	6.6	6.0	7.0	20	23	22	27
C 61 2_24.8	24.8	—	—	5.9	6.4	6.0	6.5	5.9	6.9	20	23	22	27
C 61 2_27.4	27.4	—	—	4.9	5.4	5.0	5.5	4.9	5.9	19	22	21	26
C 61 2_30.4	30.4	—	—	5.0	5.5	5.1	5.6	5.0	6.0	19	22	21	26
C 61 2_34.2	34.2	—	—	4.3	4.8	4.4	4.9	4.3	5.3	18	21	20	25
C 61 2_38.0	38.0	—	—	4.3	4.8	4.4	4.9	4.3	5.3	18	21	20	25
C 61 3_26.8	26.8	—	—	—	—	13	14	13	14	27	29	29	34
C 61 3_29.4	29.4	—	—	—	—	13	14	13	14	27	29	29	34
C 61 3_33.0	33.0	—	—	—	—	11	12	11	12	25	28	27	32
C 61 3_36.1	36.1	—	—	—	—	11	12	11	12	25	28	27	32
C 61 3_43.4	43.4	—	—	—	—	7.9	8.4	7.8	8.8	22	24	24	29
C 61 3_47.6	47.6	—	—	—	—	7.9	8.4	7.8	8.8	22	24	24	29
C 61 3_53.5	53.5	—	—	—	—	6.8	7.3	6.7	7.7	21	23	23	28
C 61 3_58.6	58.6	—	—	—	—	6.7	7.2	6.6	7.6	21	23	23	28
C 61 3_67.7	67.7	—	—	5.6	6.1	5.7	6.2	5.6	6.6	20	22	22	27
C 61 3_74.2	74.2	—	—	5.6	6.1	5.7	6.2	5.6	6.6	20	22	22	27
C 61 3_83.0	83.0	—	—	4.7	5.2	4.8	5.3	4.7	5.7	19	21	21	26
C 61 3_91.0	91.0	—	—	4.7	5.2	4.8	5.3	4.7	5.7	19	21	21	26
C 61 3_103.6	103.6	—	—	4.1	4.6	4.2	4.7	4.1	5.1	18	21	20	25
C 61 3_113.6	113.6	—	—	4.1	4.6	4.2	4.7	4.1	5.1	18	21	20	25
C 61 3_128.1	128.1	—	—	3.8	4.3	3.9	4.4	3.8	4.8	18	20	20	25
C 61 3_140.5	140.5	—	—	3.8	4.3	3.9	4.4	3.8	4.8	18	20	20	25
C 61 3_150.0	150.0	—	—	3.5	4.0	3.6	4.1	3.5	4.5	—	—	—	—
C 61 3_164.5	164.5	—	—	3.5	4.0	3.6	4.1	3.5	4.5	—	—	—	—
C 61 3_178.6	178.6	—	—	3.4	3.9	3.5	4.0	3.4	4.4	—	—	—	—
C 61 3_195.8	195.8	—	—	3.4	3.9	3.5	4.0	3.4	4.4	—	—	—	—
C 61 4_217.4	217.4	3.5	3.9	3.5	3.9	3.6	4.1	3.5	4.5	—	—	—	—
C 61 4_238.3	238.3	3.5	3.9	3.5	3.9	3.6	4.1	3.5	4.5	—	—	—	—
C 61 4_275.3	275.3	3.6	4.1	3.6	4.1	3.7	4.2	3.6	4.6	—	—	—	—
C 61 4_301.7	301.7	3.6	4.1	3.6	4.1	3.7	4.2	3.6	4.6	—	—	—	—
C 61 4_337.7	337.7	3.4	3.8	3.4	3.8	3.5	4.0	3.4	4.4	—	—	—	—
C 61 4_370.1	370.1	3.4	3.8	3.4	3.8	3.5	4.0	3.4	4.4	—	—	—	—
C 61 4_421.5	421.5	3.4	3.8	3.4	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_462.0	462.0	3.4	3.8	3.4	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_521.1	521.1	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_571.2	571.2	3.3	3.8	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_610.1	610.1	3.3	3.7	3.3	3.7	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_668.8	668.8	3.3	3.7	3.3	3.7	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_726.3	726.3	3.3	3.7	3.3	3.7	3.4	3.9	3.3	4.3	—	—	—	—
C 61 4_796.1	796.1	3.3	3.7	3.3	3.7	3.4	3.9	3.3	4.3	—	—	—	—



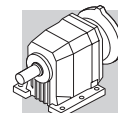
C 70

	i	J (•10 ⁻⁴) [kgm ²]													
			 IEC												
			63	71	80	90	100 112	132	160	180	200	225	250	280	
C 70 2_4.6	4.6	—	—	—	—	—	—	—	136	133	143	—	—	—	99
C 70 2_5.9	5.9	—	—	—	—	—	—	—	119	117	126	—	—	—	32
C 70 2_6.3	6.3	—	—	—	—	—	—	—	129	127	136	—	—	—	93
C 70 2_7.5	7.5	26	—	—	—	—	—	45	105	102	112	—	—	—	68
C 70 2_8.0	8.0	—	—	—	—	—	—	—	115	113	122	—	—	—	78
C 70 2_9.5	9.5	19	—	—	—	—	—	38	97	95	—	—	—	—	60
C 70 2_10.2	10.2	24	—	—	—	—	—	43	102	100	109	—	—	—	65
C 70 2_11.2	11.2	15	—	—	—	—	—	34	94	91	—	—	—	—	56
C 70 2_13.0	13.0	17	—	—	—	—	—	36	95	93	—	—	—	—	58
C 70 2_14.1	14.1	9.9	—	—	12	12	14	29	88	86	—	—	—	—	51
C 70 2_15.3	15.3	14	—	—	—	—	—	33	93	90	—	—	—	—	55
C 70 2_16.7	16.7	6.9	—	—	9.5	9.4	11	26	85	83	—	—	—	—	48
C 70 2_19.3	19.3	9.1	—	—	12	12	13	28	87	85	—	—	—	—	50
C 70 2_22.9	22.9	6.4	—	—	9.0	8.9	10	25	85	83	—	—	—	—	48
C 70 2_27.7	27.7	5.2	—	—	8.0	7.9	9.2	24	84	81	—	—	—	—	46
C 70 2_34.7	34.7	3.2	—	—	6.1	6.0	7.3	22	82	79	—	—	—	—	44
C 70 3_41.3	41.3	4.4	—	—	7.2	7.2	8.5	23	83	80	—	—	—	—	46
C 70 3_44.7	44.7	4.2	—	—	7.0	7.0	8.2	23	83	80	—	—	—	—	45
C 70 3_52.2	52.2	3.0	—	—	5.8	5.8	7.0	22	81	79	—	—	—	—	44
C 70 3_56.5	56.5	2.8	—	—	5.7	5.6	6.9	22	81	79	—	—	—	—	44
C 70 3_65.9	65.9	2.0	—	—	4.9	4.8	6.1	21	80	78	—	—	—	—	43
C 70 3_71.3	71.3	2.0	—	—	4.8	4.8	6.0	21	80	78	—	—	—	—	43
C 70 3_81.4	81.4	1.5	—	—	4.3	4.3	5.6	20	80	78	—	—	—	—	43
C 70 3_88.2	88.2	1.4	—	—	4.3	4.2	5.5	20	80	76	—	—	—	—	43
C 70 3_103.8	103.8	1.0	—	—	3.8	3.8	5.1	20	79	77	—	—	—	—	42
C 70 3_112.4	112.4	0.90	—	—	3.8	3.7	5.0	20	79	77	—	—	—	—	42
C 70 3_126.8	126.8	0.70	—	—	3.5	3.5	4.8	20	79	77	—	—	—	—	42
C 70 3_137.4	137.4	0.70	—	—	3.5	3.5	4.7	20	79	77	—	—	—	—	42
C 70 3_150.3	150.3	0.50	—	—	3.4	3.4	9.6	—	—	—	—	—	—	—	42
C 70 3_162.8	162.8	0.50	—	—	3.4	3.4	4.6	—	—	—	—	—	—	—	42
C 70 3_179.2	179.2	0.40	—	—	3.2	3.3	4.5	—	—	—	—	—	—	—	42
C 70 3_194.1	194.1	0.40	—	—	3.2	3.2	4.5	—	—	—	—	—	—	—	42
C 70 3_220.9	220.9	0.30	—	—	3.1	3.1	4.3	—	—	—	—	—	—	—	41
C 70 3_239.3	239.3	0.30	—	—	3.1	3.1	4.3	—	—	—	—	—	—	—	41
C 70 4_251.3	251.3	0.70	2.2	2.2	3.5	3.5	4.8	20	—	—	—	—	—	—	11
C 70 4_272.2	272.2	0.70	2.2	2.1	3.5	3.5	4.8	20	—	—	—	—	—	—	11
C 70 4_317.9	317.9	0.50	2.0	2.0	3.4	3.3	4.6	19	—	—	—	—	—	—	11
C 70 4_344.3	344.3	0.50	2.0	2.0	3.4	3.3	4.6	19	—	—	—	—	—	—	11
C 70 4_409.4	409.4	0.40	1.8	1.8	3.2	3.2	4.5	19	—	—	—	—	—	—	7.9
C 70 4_443.5	443.5	0.40	1.8	1.8	3.2	3.2	4.5	19	—	—	—	—	—	—	7.9
C 70 4_512.0	512.0	0.30	1.7	1.7	3.1	3.1	4.4	19	—	—	—	—	—	—	7.8
C 70 4_554.7	554.7	0.30	1.7	1.7	3.1	3.1	4.4	19	—	—	—	—	—	—	7.8
C 70 4_606.8	606.8	0.20	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	7.8
C 70 4_657.3	657.3	0.20	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	7.7
C 70 4_736.0	736.0	0.20	1.6	1.6	3.0	2.9	4.3	—	—	—	—	—	—	—	7.7
C 70 4_797.3	797.3	0.20	1.6	1.6	3.0	2.9	4.3	—	—	—	—	—	—	—	7.7
C 70 4_922.6	922.6	0.10	1.6	1.6	3.0	2.9	4.2	—	—	—	—	—	—	—	7.7
C 70 4_999.5	999.5	0.10	1.6	1.6	3.0	2.9	4.2	—	—	—	—	—	—	—	7.6
C 70 4_1069	1069	0.80	1.6	1.5	2.9	2.9	4.2	—	—	—	—	—	—	—	7.6
C 70 4_1158	1158	0.80	1.6	1.5	2.9	2.9	4.2	—	—	—	—	—	—	—	7.6
C 70 4_1362	1362	0.60	1.5	1.5	2.9	2.9	4.1	—	—	—	—	—	—	—	7.6
C 70 4_1476	1476	0.60	1.5	1.5	2.9	2.9	4.1	—	—	—	—	—	—	—	7.6



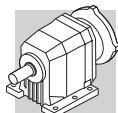
C 80

	i	J (•10-4) [kgm²]													
			 IEC												
			63	71	80	90	100 112	132	160	180	200	225	250		280
C 80 2_5.6	5.6	—	—	—	—	—	—	—	—	197	211	489	—	—	164
C 80 2_6.1	6.1	—	—	—	—	—	—	—	—	193	210	485	—	—	159
C 80 2_7.0	7.0	—	—	—	—	—	—	—	160	161	174	452	—	—	127
C 80 2_7.6	7.6	—	—	—	—	—	—	—	158	158	172	449	—	—	124
C 80 2_8.9	8.9	—	—	—	—	—	—	—	137	135	146	429	—	—	101
C 80 2_9.6	9.6	—	—	—	—	—	—	—	136	133	144	427	—	—	99
C 80 2_11.1	11.1	38	—	—	—	—	—	56	116	113	124	408	—	—	79
C 80 2_12.0	12.0	36	—	—	—	—	—	55	115	112	123	407	—	—	78
C 80 2_13.8	13.8	28	—	—	—	—	—	47	106	104	135	398	—	—	69
C 80 2_14.9	14.9	27	—	—	—	—	—	46	106	103	134	397	—	—	69
C 80 2_16.7	16.7	21	—	—	—	—	—	40	100	97	127	391	—	—	63
C 80 2_18.1	18.1	21	—	—	—	—	—	40	99	97	127	390	—	—	62
C 80 2_20.5	20.5	14	—	—	17	17	18	33	93	90	120	383	—	—	55
C 80 2_22.2	22.2	14	—	—	16	16	18	33	92	90	120	383	—	—	55
C 80 2_24.0	24.0	13	—	—	16	16	17	32	91	89	119	382	—	—	54
C 80 2_25.9	25.9	13	—	—	16	15	17	32	91	89	118	382	—	—	54
C 80 2_31.3	31.3	8.7	—	—	12	11	13	28	87	85	—	—	—	—	50
C 80 2_39.1	39.1	5.2	—	—	8.0	8.0	9.2	24	84	81	—	—	—	—	46
C 80 3_43.5	43.5	9.6	—	—	12	12	14	29	88	86	—	—	—	—	51
C 80 3_47.4	47.4	9.1	—	—	12	12	13	28	87	85	—	—	—	—	50
C 80 3_57.3	57.3	5.7	—	—	8.5	8.5	9.7	25	84	82	—	—	—	—	47
C 80 3_62.5	62.5	5.4	—	—	8.2	8.2	9.5	24	84	82	—	—	—	—	47
C 80 3_70.5	70.5	4.3	—	—	7.1	7.0	8.3	23	83	80	—	—	—	—	45
C 80 3_76.9	76.9	4.1	—	—	7.0	6.9	8.2	23	82	80	—	—	—	—	45
C 80 3_89.3	89.3	3.0	—	—	5.9	5.8	7.1	22	81	79	—	—	—	—	44
C 80 3_97.4	97.4	2.9	—	—	5.8	5.7	7.0	22	81	79	—	—	—	—	44
C 80 3_109.5	109.5	2.0	—	—	4.8	4.8	6.1	21	80	78	—	—	—	—	43
C 80 3_119.5	119.5	1.9	—	—	4.8	4.7	6.0	21	80	79	—	—	—	—	43
C 80 3_136.7	136.7	1.4	—	—	4.3	4.2	5.5	20	80	78	—	—	—	—	43
C 80 3_149.1	149.1	1.4	—	—	4.2	4.2	5.5	20	80	77	—	—	—	—	43
C 80 3_169.0	169.0	1.0	—	—	3.9	3.8	5.1	20	80	77	—	—	—	—	42
C 80 3_184.4	184.4	1.0	—	—	3.9	3.8	5.1	20	80	77	—	—	—	—	42
C 80 3_197.9	197.9	0.80	—	—	3.7	3.6	4.9	—	—	—	—	—	—	—	42
C 80 3_215.8	215.8	0.80	—	—	3.6	3.6	4.9	—	—	—	—	—	—	—	42
C 80 4_261.9	261.9	1.7	—	—	4.6	4.5	5.8	21	—	—	—	—	—	—	12
C 80 4_285.7	285.7	1.7	—	—	4.6	4.5	5.8	21	—	—	—	—	—	—	12
C 80 4_334.3	334.3	1.2	2.7	2.7	4.0	4.0	5.3	20	—	—	—	—	—	—	11
C 80 4_364.7	364.7	1.2	2.7	2.6	4.0	4.0	5.3	20	—	—	—	—	—	—	11
C 80 4_417.5	417.5	0.90	2.4	2.3	3.7	3.7	5.0	20	—	—	—	—	—	—	11
C 80 4_455.4	455.4	0.90	2.3	2.3	3.7	3.7	5.5	20	—	—	—	—	—	—	11
C 80 4_529.3	529.3	0.50	2.0	2.0	3.4	3.3	4.6	19	—	—	—	—	—	—	11
C 80 4_577.4	577.4	0.50	2.0	2.0	3.4	3.3	4.6	19	—	—	—	—	—	—	11
C 80 4_664.3	664.3	0.40	2.0	1.9	3.3	3.2	4.5	19	—	—	—	—	—	—	11
C 80 4_724.7	724.7	0.40	2.0	1.9	3.3	3.2	4.5	19	—	—	—	—	—	—	11
C 80 4_783.4	783.4	0.30	2.0	1.8	3.2	3.1	4.4	—	—	—	—	—	—	—	9.4
C 80 4_854.6	854.6	0.30	2.0	1.8	3.2	3.1	4.4	—	—	—	—	—	—	—	9.4
C 80 4_945.7	945.7	0.20	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	9.3
C 80 4_1032	1032	0.20	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	—	9.3
C 80 4_1168	1168	0.20	1.6	1.6	3.0	3.0	4.2	—	—	—	—	—	—	—	9.2
C 80 4_1274	1274	0.20	1.6	1.6	3.0	3.0	4.2	—	—	—	—	—	—	—	9.2
C 80 4_1358	1358	0.10	1.6	1.6	3.0	2.9	4.2	—	—	—	—	—	—	—	9.2
C 80 4_1481	1481	0.10	1.6	1.6	3.0	2.9	4.2	—	—	—	—	—	—	—	9.2



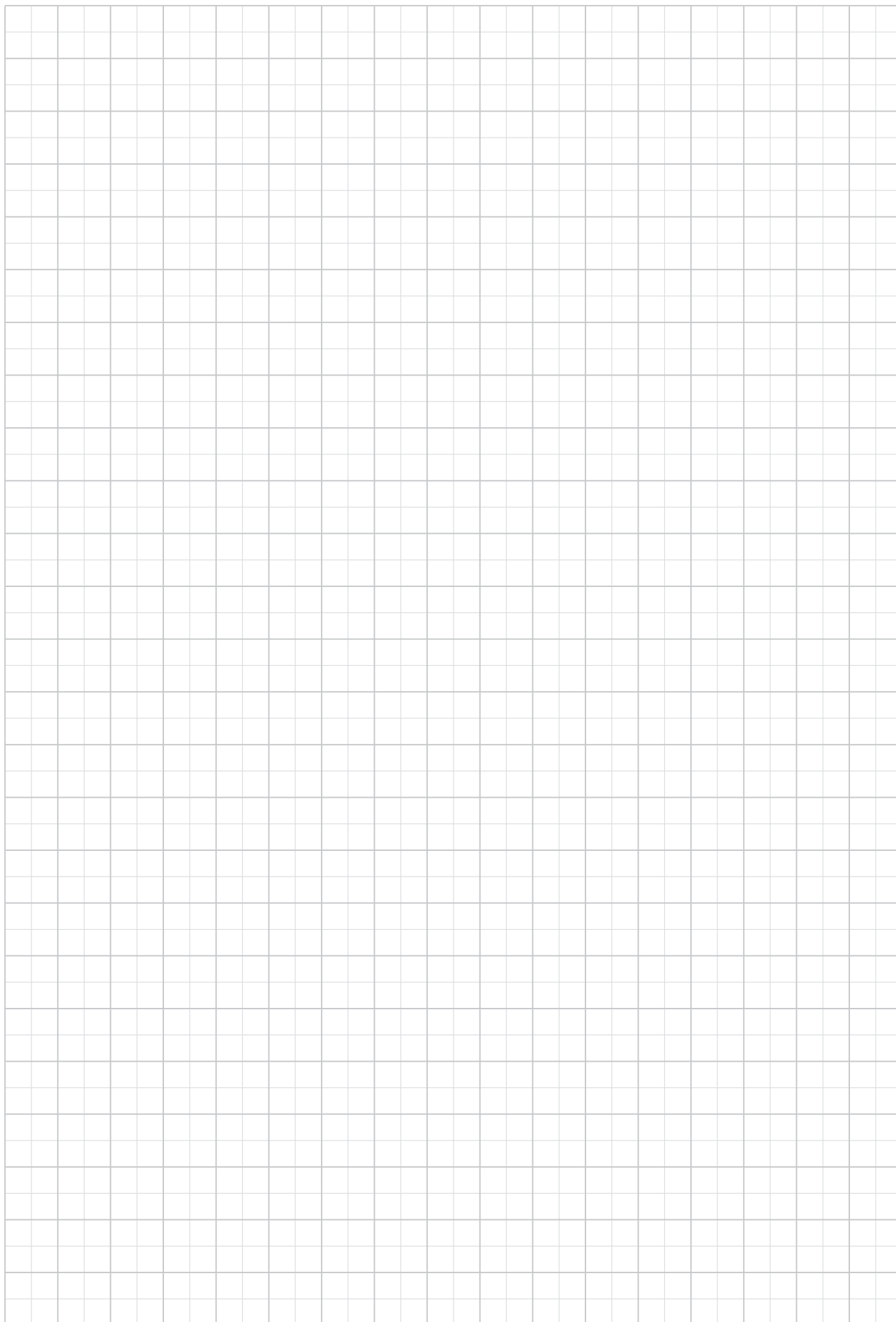
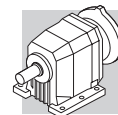
C 90

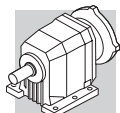
	i	J (•10 ⁻⁴) [kgm ²]												
			 IEC											
			63	71	80	90	100 112	132	160	180	200	225	250	280
C 90 2_5.2	5.2	—	—	—	—	—	—	—	—	—	332	610	637	619
C 90 2_5.6	5.6	—	—	—	—	—	—	—	—	—	321	599	626	609
C 90 2_6.8	6.8	—	—	—	—	—	—	—	—	—	252	530	557	540
C 90 2_7.3	7.3	—	—	—	—	—	—	—	—	—	246	524	551	533
C 90 2_8.3	8.3	—	—	—	—	—	—	—	—	—	212	490	517	499
C 90 2_9.0	9.0	—	—	—	—	—	—	—	—	—	208	485	513	495
C 90 2_10.4	10.4	—	—	—	—	—	—	167	164	175	458	484	—	461
C 90 2_11.2	11.2	—	—	—	—	—	—	164	162	173	455	482	—	458
C 90 2_12.8	12.8	65	—	—	—	—	—	84	143	141	152	436	462	439
C 90 2_13.9	13.9	63	—	—	—	—	—	82	141	139	200	434	460	437
C 90 2_16.0	16.0	47	—	—	—	—	—	66	125	123	154	417	443	420
C 90 2_17.3	17.3	46	—	—	—	—	—	65	124	122	153	416	442	419
C 90 2_18.7	18.7	42	—	—	—	—	—	61	121	119	148	412	433	415
C 90 2_20.2	20.2	41	—	—	—	—	—	61	199	118	147	411	438	414
C 90 2_22.9	22.9	28	—	—	30	30	31	47	106	104	133	397	423	400
C 90 2_24.8	24.8	27	—	—	29	29	31	46	105	103	133	396	422	399
C 90 2_27.2	27.2	22	—	—	25	25	26	41	101	99	128	391	418	394
C 90 2_29.4	29.4	22	—	—	25	24	26	41	100	98	127	391	417	394
C 90 2_35.1	35.1	14	—	—	17	17	18	33	93	90	—	—	—	386
C 90 3_39.4	39.4	27	—	—	—	—	—	46	105	103	112	398	424	412
C 90 3_43.0	43.0	26	—	—	—	—	—	45	104	102	111	396	422	410
C 90 3_50.3	50.3	19	—	—	—	—	—	38	98	95	126	389	415	403
C 90 3_54.9	54.9	19	—	—	—	—	—	37	97	95	125	389	415	401
C 90 3_59.2	59.2	16	—	—	—	—	—	35	94	92	122	385	411	398
C 90 3_64.6	64.6	15	—	—	—	—	—	34	94	91	121	384	410	398
C 90 3_74.4	74.4	10	—	—	13	13	14	29	88	86	116	379	405	393
C 90 3_81.2	81.2	9.8	—	—	12	12	13	29	88	86	115	379	405	392
C 90 3_88.2	88.2	7.1	—	—	9.7	9.6	11	26	85	83	113	376	402	389
C 90 3_96.2	96.2	6.9	—	—	9.4	9.4	11	26	85	83	112	376	402	389
C 90 3_107.0	107.0	5.7	—	—	8.4	8.4	9.6	25	84	82	—	—	—	388
C 90 3_116.7	116.7	5.5	—	—	8.3	8.2	9.5	24	84	82	—	—	—	388
C 90 3_134.1	134.1	3.5	—	—	6.4	6.3	7.6	22	82	80	—	—	—	386
C 90 3_146.3	146.3	3.4	—	—	6.3	6.2	7.5	22	82	80	—	—	—	386
C 90 3_157.8	157.8	2.5	—	—	5.4	5.3	6.6	21	81	79	—	—	—	385
C 90 3_172.1	172.1	2.4	—	—	5.3	5.2	6.5	21	81	79	—	—	—	385
C 90 4_212.4	212.4	4.2	—	—	7.0	7.0	8.3	23	83	80	—	—	—	14
C 90 4_231.7	231.7	4.1	—	—	7.0	6.9	8.2	23	82	80	—	—	—	14
C 90 4_268.5	268.5	2.8	—	—	5.7	5.6	6.9	22	81	79	—	—	—	13
C 90 4_292.9	292.9	2.8	—	—	5.7	2.6	6.9	22	81	79	—	—	—	13
C 90 4_339.0	339.0	2.0	3.4	3.4	4.8	4.8	6.0	21	80	78	—	—	—	12
C 90 4_369.8	369.8	2.0	3.4	3.4	4.8	4.8	6.0	21	80	78	—	—	—	12
C 90 4_419.0	419.0	1.4	2.9	2.9	4.3	4.2	5.5	20	80	78	—	—	—	12
C 90 4_457.1	457.1	1.4	2.9	2.9	4.3	4.2	5.5	20	80	78	—	—	—	12
C 90 4_534.2	534.2	0.90	2.4	2.4	3.8	3.7	5.0	20	79	77	—	—	—	11
C 90 4_582.8	582.8	0.90	2.4	2.4	3.8	3.7	5.0	20	79	77	—	—	—	11
C 90 4_652.8	652.8	0.70	2.1	2.1	3.5	3.5	4.7	20	79	77	—	—	—	11
C 90 4_712.2	712.2	0.70	2.1	2.1	3.5	3.5	4.7	20	79	77	—	—	—	11
C 90 4_773.6	773.6	0.50	2.0	2.0	3.4	3.3	4.6	—	—	—	—	—	—	9.7
C 90 4_844.0	844.0	0.50	2.0	2.0	3.4	3.3	4.6	—	—	—	—	—	—	9.6
C 90 4_922.3	922.3	0.40	1.8	1.8	3.2	3.2	4.5	—	—	—	—	—	—	9.5
C 90 4_1006	1006	0.40	1.8	1.8	3.2	3.2	4.5	—	—	—	—	—	—	9.4
C 90 4_1137	1137	0.30	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	9.3
C 90 4_1240	1240	0.30	1.7	1.7	3.1	3.0	4.3	—	—	—	—	—	—	9.3



C 100

	i	J (•10 ⁻⁴) [kgm ²]													
			63	71	80	90	100 112	132	160	180	200	225	250	280	
C 100 2_4.9	4.9	—	—	—	—	—	—	—	—	—	674	960	987	970	972
C 100 2_5.3	5.3	—	—	—	—	—	—	—	—	—	647	933	960	943	944
C 100 2_6.5	6.5	—	—	—	—	—	—	—	—	—	481	767	794	777	778
C 100 2_7.1	7.1	—	—	—	—	—	—	—	—	—	465	751	778	761	763
C 100 2_8.4	8.4	—	—	—	—	—	—	—	—	—	365	651	678	660	662
C 100 2_9.0	9.0	—	—	—	—	—	—	—	—	—	355	641	668	651	653
C 100 2_10.1	10.1	—	—	—	—	—	—	—	—	—	291	577	604	587	589
C 100 2_10.9	10.9	—	—	—	—	—	—	—	—	—	285	570	597	580	582
C 100 2_12.5	12.5	—	—	—	—	—	—	—	224	222	233	521	550	539	529
C 100 2_13.5	13.5	—	—	—	—	—	—	—	220	218	228	517	545	532	524
C 100 2_15.2	15.2	122	—	—	—	—	—	82	141	200	199	472	499	528	514
C 100 2_16.5	16.5	119	—	—	—	—	—	138	197	195	206	496	525	511	504
C 100 2_18.7	18.7	97	—	—	—	—	—	116	175	173	203	474	501	488	480
C 100 2_20.2	20.2	95	—	—	—	—	—	114	173	171	201	471	499	486	478
C 100 2_22.2	22.2	73	—	—	—	—	—	92	102	150	179	448	477	463	456
C 100 2_24.1	24.1	72	—	—	—	—	—	91	150	148	178	447	476	462	455
C 100 2_29.6	29.6	50	—	—	—	—	54	69	129	127	156	425	454	440	433
C 100 3_34.3	34.3	—	—	—	—	—	—	—	148	146	155	439	465	471	461
C 100 3_36.9	36.9	—	—	—	—	—	—	—	145	143	152	436	462	468	458
C 100 3_42.9	42.9	44	—	—	—	—	—	63	123	120	130	415	441	451	437
C 100 3_46.2	46.2	43	—	—	—	—	—	61	121	118	128	413	439	452	435
C 100 3_53.3	53.3	33	—	—	—	—	—	51	111	109	139	403	429	432	424
C 100 3_57.4	57.4	31	—	—	—	—	—	50	110	107	138	401	427	431	423
C 100 3_64.5	64.5	24	—	—	—	—	—	43	103	101	130	394	420	422	415
C 100 3_69.4	69.4	24	—	—	—	—	—	43	102	100	129	393	419	421	414
C 100 3_79.4	79.4	16	—	—	—	—	20	35	95	92	122	385	411	413	407
C 100 3_85.6	85.6	16	—	—	—	—	19	35	94	92	121	385	411	413	406
C 100 3_92.7	92.7	15	—	—	—	—	18	34	93	91	120	384	410	412	405
C 100 3_99.8	99.8	14	—	—	—	—	18	33	93	90	119	383	409	411	404
C 100 3_111.9	111.9	9.9	—	—	—	—	14	29	88	86	—	—	—	—	392
C 100 3_120.5	120.5	9.6	—	—	—	—	14	29	88	86	—	—	—	—	392
C 100 3_139.7	139.7	6.0	—	—	—	—	10	25	84	82	—	—	—	—	388
C 100 3_150.4	150.4	5.8	—	—	—	—	9.8	25	84	82	—	—	—	—	388
C 100 4_162.1	162.1	13	—	—	16	16	17	32	100	89	—	—	—	—	23
C 100 4_185.4	185.4	9.6	—	—	13	12	14	29	88	86	—	—	—	—	20
C 100 4_199.6	199.6	8.5	—	—	12	12	14	28	88	86	—	—	—	—	20
C 100 4_244.2	244.2	5.7	—	—	8.5	8.5	9.8	25	84	82	—	—	—	—	16
C 100 4_263.0	263.0	5.6	—	—	8.5	8.4	9.7	25	84	82	—	—	—	—	16
C 100 4_300.5	300.5	4.2	—	—	7.1	7.1	8.4	23	83	80	—	—	—	—	15
C 100 4_323.6	323.6	4.2	—	—	7.1	7.0	8.3	23	83	80	—	—	—	—	14
C 100 4_380.5	380.5	3.1	4.5	4.5	5.9	5.5	7.1	22	81	79	—	—	—	—	13
C 100 4_409.8	409.8	3.0	4.5	4.5	5.9	5.5	7.1	22	81	79	—	—	—	—	13
C 100 4_466.7	466.7	2.0	3.5	3.5	4.9	4.8	6.1	20	80	78	—	—	—	—	12
C 100 4_502.6	502.6	2.0	3.5	3.4	4.8	4.8	6.1	20	80	78	—	—	—	—	12
C 100 4_582.6	582.6	1.4	2.9	2.9	4.3	4.2	5.5	20	80	77	—	—	—	—	12
C 100 4_627.4	627.4	1.4	2.9	2.9	4.3	4.2	5.5	20	80	77	—	—	—	—	12
C 100 4_720.3	720.3	1.0	2.5	2.5	3.9	3.4	5.1	20	79	77	—	—	—	—	11
C 100 4_775.7	775.7	1.0	2.5	2.5	3.9	3.4	5.1	20	79	77	—	—	—	—	11
C 100 4_843.3	843.3	0.80	2.3	2.3	3.7	3.6	4.9	—	—	—	—	—	—	—	9.9
C 100 4_908.2	908.2	0.80	2.3	2.3	3.7	3.6	4.9	—	—	—	—	—	—	—	9.9
C 100 4_1004	1004	0.60	2.1	2.0	3.4	3.4	4.7	—	—	—	—	—	—	—	9.7
C 100 4_1081	1081	0.60	2.1	2.0	3.4	3.4	4.7	—	—	—	—	—	—	—	9.7

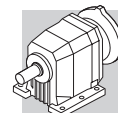




29 RELACIONES EXACTAS

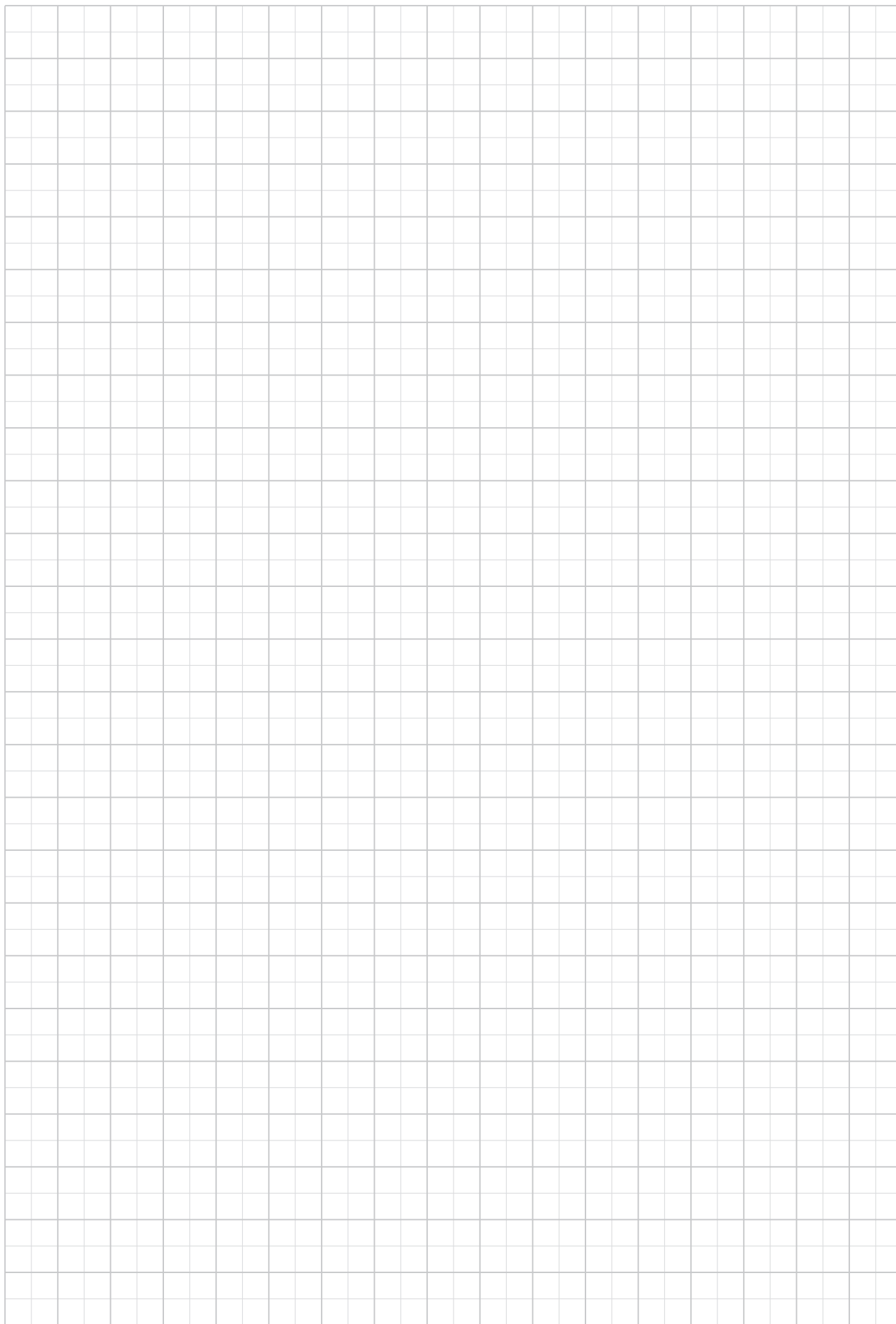
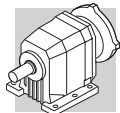
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2.5						2.62895					
2.8	2.76731	2.72212	2.87879	2.68687	2.65909		2.82011				
3.2	3.20743	3.32609		3.18182		3.30758					
3.5	3.65132	3.70709	3.40909	3.48617	3.61111		3.69925				
4.0			3.73518	4.20000							
4.5	4.31203	4.25831	4.50000	4.62201	4.66304	4.45370	4.55556	4.57143			
5.0	4.86842	4.76902	4.95215	5.27807						5.17231	4.92308
5.6	5.59868	5.59006	5.65508	5.84659	5.95263	5.63043		5.85034	5.64103	5.60333	5.33333
6.3	6.23158	6.08696	6.26420		6.36364		6.00176 6.74074	6.25455	6.11111	6.75824	6.52308
7.1		7.08300	7.16498	6.78114	7.06612	6.98684	7.48485	7.46032	7.04000	7.32143	7.06667
8.0	7.62201		8.48485	8.03030		7.75120		8.00433	7.62667	8.32615	8.35165
9.0	8.83422	8.65455	9.29644	8.79842	8.64198	8.79040	8.84211	9.52381	8.86447	9.02000	9.04762
10.0	10.05682	9.64593		10.60000	9.59596	9.75207	9.81818	10.20707	9.60317	10.36264	10.09231
11.2		11.08021	11.20000	11.66507	11.15942	11.83642	10.88889	11.20879	11.09402	11.22619	10.93333
12.5	11.87662	12.40909	12.32536	13.32086	12.39130	13.13131	12.09091	13.03030	12.01852	12.79060	12.45421
14.0	13.40909	14.54545	14.07487	14.75568	14.24561	14.96377	14.34568	14.09524	13.76410 14.91111	13.85648	13.49206
16.0	15.42045	15.83838	15.59091		15.81818	16.60079	15.92929	15.33566 16.70330	16.66272	15.97949	15.21368 16.48148
18.0	17.16364 18.38961	18.13636	18.18182	17.20779	17.79167	18.89035	17.65217		18.05128	17.31111 18.68047	18.66667
20.0	20.62937	20.02424	20.08081	19.00505	19.75568	20.95694 21.81606	19.60079	19.28485	20.53333	20.23718	20.22222
22.4	23.24242	21.45455	22.90909	22.13187	22.55556	23.35417 23.89242	22.35088	22.85315	22.24444	22.91795	22.24852
25.0	25.35537	24.27972	25.11515	26.20879	25.04545	25.90909	24.81818 26.77895		23.95266 25.94872	24.82778	24.10256
28.0	29.50000	27.15152 29.61983	26.90909	28.71572	28.31111 28.49003	27.44759 29.77315	27.41667 29.35385	27.71901		27.17160 29.43590	29.55556
31.5	32.77778	33.09091	29.76224 33.09091		31.22945 31.43636	30.05994 33.03030	30.44318 32.97778		31.33333		
35.5	37.00909	36.76768	36.09917	34.59560	33.38462 36.78930	36.38333 36.95862	34.22222 36.14872	34.74747		35.09848	34.29705 36.93529
40.0	42.31313		40.72727	38.07172	37.06993 40.32673	40.36364 40.47619	38.00000	41.26263	39.11111	39.40239	42.92328
45.0		43.27273	45.25253	43.47576	44.75207 46.96356	43.11538 46.72360	43.44691	44.70118	43.49074	42.98443	46.22507
50.0	47.60227	48.64646	52.43636	48.15865	51.47929	47.83217 51.40152	47.62450	52.16479	47.44444	50.30093	53.25397
56.0	55.16883	54.72727	59.39394	56.16170	58.65385	57.02479 58.98416	53.46087 58.60134	56.51186	57.29733	54.87374 59.20032	57.35043
63.0	66.15152	60.00000 63.27273	66.81818	62.02747	64.29364	64.59803		65.85315	62.50617	64.58217	64.46886
71.0		65.33333 74.81250	74.74747	70.76374	74.35897	72.92219	67.69123 74.20000	71.34091	70.50362	74.44537	69.42801
80.0		82.60000	82.55443	77.57802 83.11931	81.50888	79.86264	83.03333	81.41434	76.91304	81.21313	79.44444
90.0		88.50000	94.18182	91.93238	93.33333	92.96514	91.01731	88.19886	89.27047	88.22009	85.55556 92.67399
100.0		100.15385	103.25118	102.21429	102.30769	101.81319	103.64444	103.79138	97.38596	96.24009	99.80276

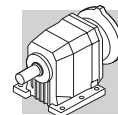




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112.2		112.00000	110.62626	111.50649	110.05917	113.60510	113.61026	112.44066	109.50347	107.00379 116.73140	111.90476
125.5		122.18182	122.35587	125.80220	120.64178	124.41758	128.14222	126.83497	119.45833		120.51282
140.0		136.50000	136.04040 148.40771	139.78022	132.86713 145.64282	134.62559 147.43872	140.46359	137.40455	136.68519 149.11111	134.13580 146.32997	139.68254
160.0		151.66667	167.43434	161.97033	164.10256	160.49861	150.03077 164.45680	150.30339 162.82867	168.99259	157.76199	150.42735 162.10526
180.0		178.50000	186.03816	183.46154	179.88166	175.77423	178.59394	179.18945	184.35556	172.10399	185.37037
200.0		200.66667		206.39423	190.76923 209.11243	197.87075	195.76643	194.12190	197.85897	212.38169	199.62963
225.0		225.75000	215.57172	230.88697		216.70330	217.40754	220.91375	215.84615	231.68911	
250.0		261.00000	244.17508	255.00183	239.94755	240.85197 263.77530	238.31211	239.32323 251.28438	261.85613	268.49591	244.21811 263.00412
280.0			274.69697	290.91758	263.01943		275.27766	272.22475	285.66123	292.90463	300.50725
315.0				318.93187	304.19580 333.44540	297.76563 326.10577	301.74667	317.86109	334.27376	338.95085	323.62319
355.0				341.71272			337.66889 370.13705	344.34951	364.66228	369.76457	380.49708
400.0				377.94421 420.21429	381.81818 418.53147	379.60764 415.73718	421.48741	409.39931	417.48199	419.04541	409.76608
450.0				458.41558	450.24207	463.88750	462.01504	443.51592	455.43490	457.14044	466.73611
500.0				517.18681	493.53457	508.03846	521.11170	512.03745	529.26678		502.63889
560.0				574.65201	543.54736	549.72115	571.21860	554.70724	577.38194	534.22163 582.78723	582.59259
630.0				665.87802	595.81153	602.04142 655.36932	610.12513 668.79101	606.78035 657.34538	664.32106	652.82863	627.40741
710.0				754.23077	671.32867 735.87951	717.74476	726.28202	735.97521	724.71389	712.17669	720.29630
800.0				848.50962	780.41958	807.97222	796.11683	797.30647	783.37099	773.62229 843.95159	775.70370 843.33333
900.0					855.45992	884.87179		922.59000	854.58654 945.71181	922.30089	908.20513
1000.0								999.47250 1069.05117	1031.68561	1006.14643	1003.88889
1125.0								1158.13876	1168.03704	1137.05888	1081.11111
1250.0									1274.22222	1240.42787	
1400.0								1362.26180 1475.78362	1357.84306 1481.28333		

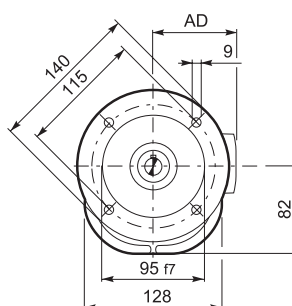
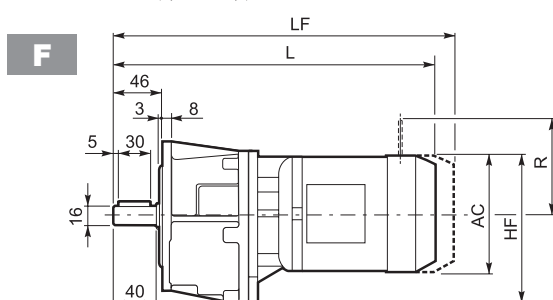
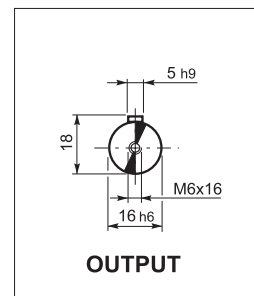
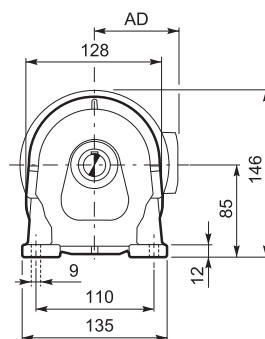
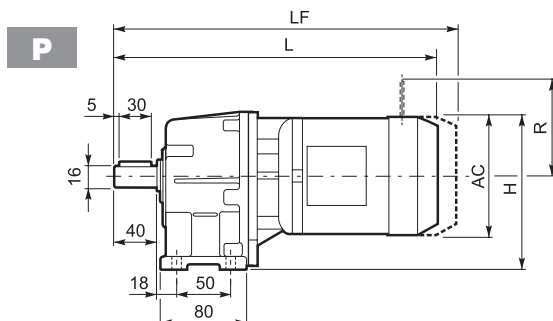




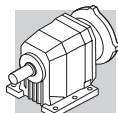


30 DIMENSIONES

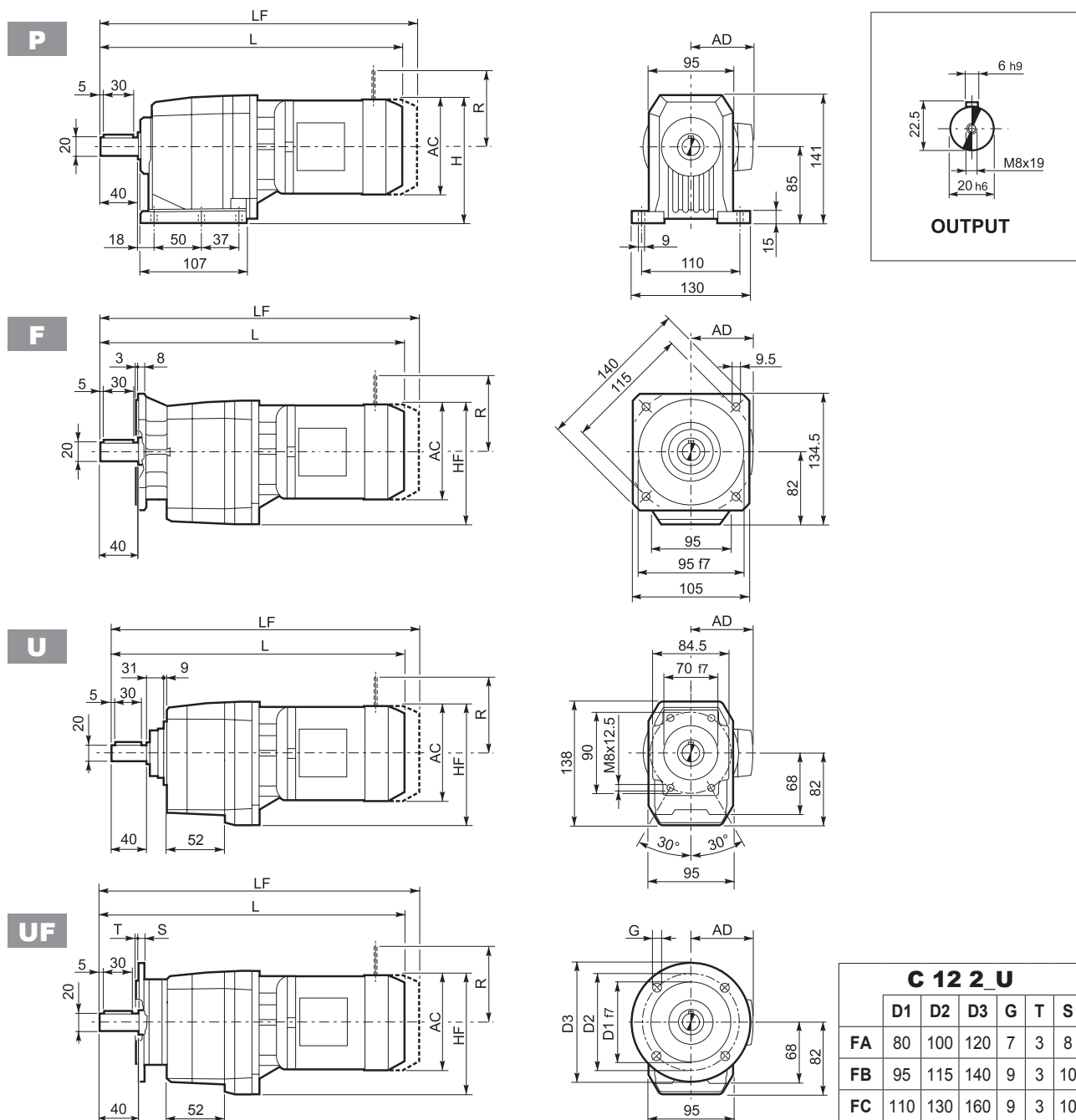
C 05...M



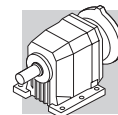
									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD		LF		R	AD	R	AD
C 05 2	S0	M0	110	140	137	287	91	7	—	—	—	—	—	—
C 05 2	S05	M05	121	145.5	142.5	332	95	8	398	10	96	122	116	95
C 05 2	S05	ME05	121	145.5	142.5	332	95	8	398	10	96	119	116	119
C 05 2	S1	M1	138	154	151	360.5	108	11	423	13	103	135	124	108
C 05 2	S1	ME1	138	154	151	360.5	108	11	423	13	103	135	124	135



C 12...M

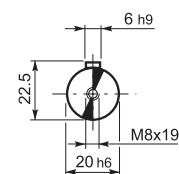
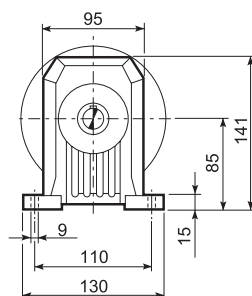
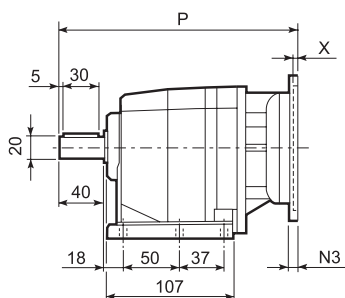


										M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD			LF		R	AD	R	AD
C 12 2	S05	M05	121	145.5	142.5	370.5	95	9		436.5	10	96	122	116	95
C 12 2	S1	M1	138	154	151	404.5	108	11		460.5	13	103	135	124	108
C 12 2	S2	M2S	156	163	160	428.5	119	15		498.5	18	129	146	134	119
C 12 2	S3	M3S	195	182.5	179.5	471.5	142	20		567.5	25	160	158	160	142
C 12 2	S3	M3L	195	182.5	179.5	503.5	142	22		594.5	27	160	158	160	142



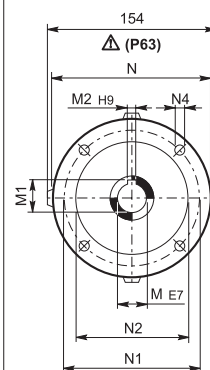
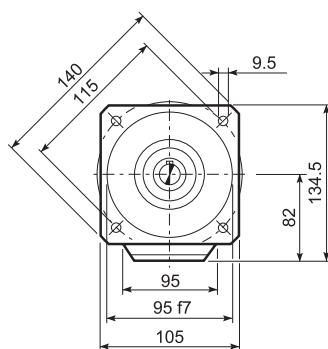
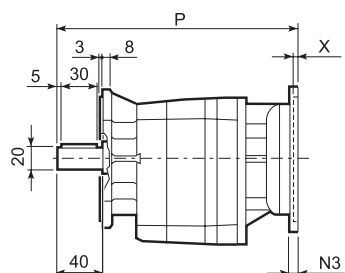
C 12...P (IEC)

P



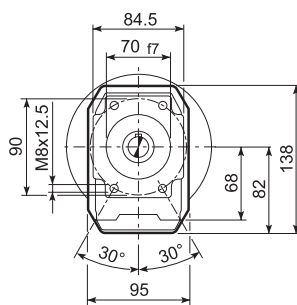
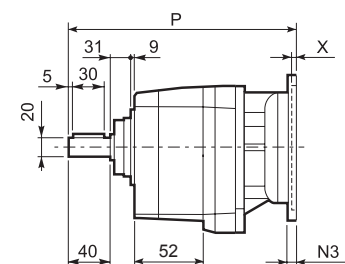
OUTPUT

F

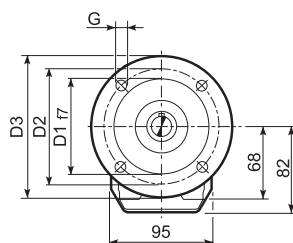
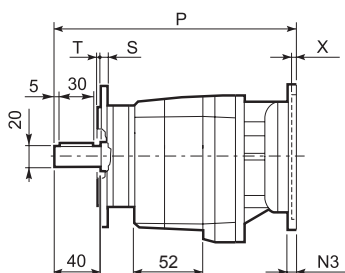


INPUT

U



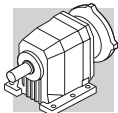
UF



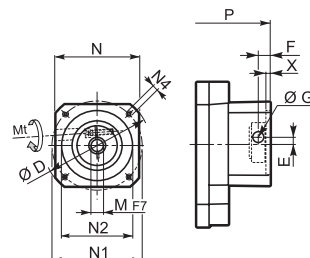
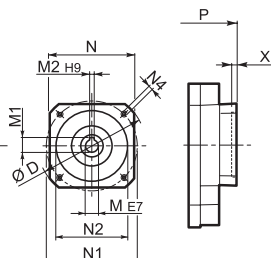
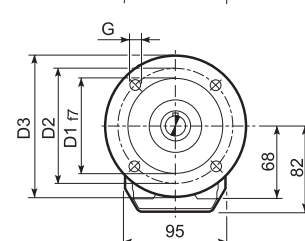
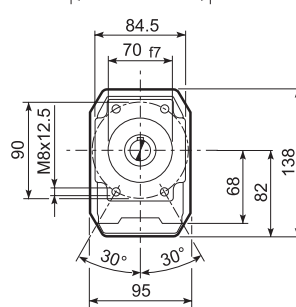
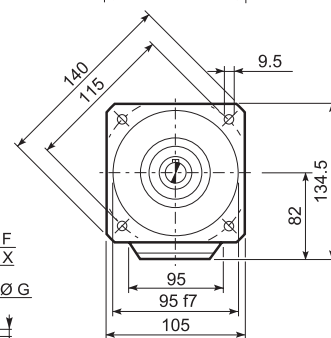
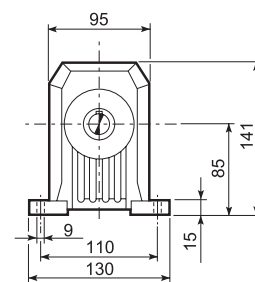
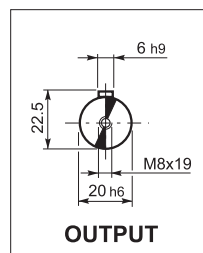
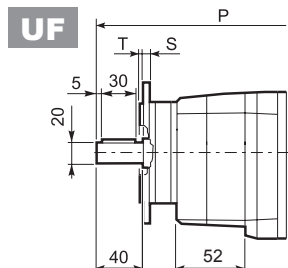
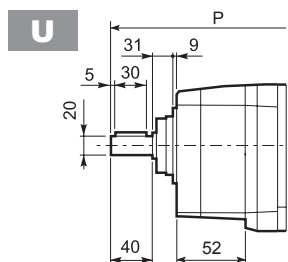
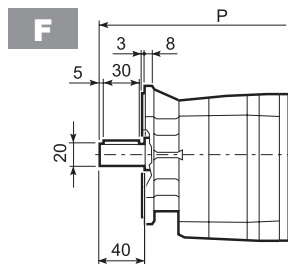
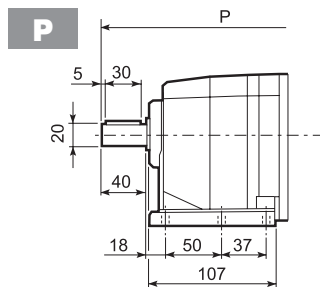
C 12 2 U

	D1	D2	D3	G	T	S
FA	80	100	120	7	3	8
FB	95	115	140	9	3	10
FC	110	130	160	9	3	10

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 12 2	P63	11	12.8	4	140	115	95	—	M8x19	4	244.5	6
C 12 2	P71	14	16.3	5	160	130	110	—	M8x16	4.5	244.5	6
C 12 2	P80	19	21.8	6	200	165	130	—	M10x14.5	4	264	7
C 12 2	P90	24	27.3	8	200	165	130	—	M10x14.5	4	264	7
C 12 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	274	11
C 12 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	274	11



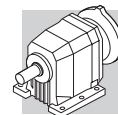
C 12...SK / SC



C 12 2 U						
	D1	D2	D3	G	T	S
FA	80	100	120	7	3	8
FB	95	115	140	9	3	10
FC	110	130	160	9	3	10

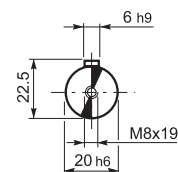
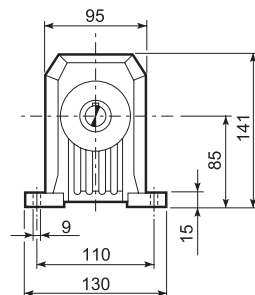
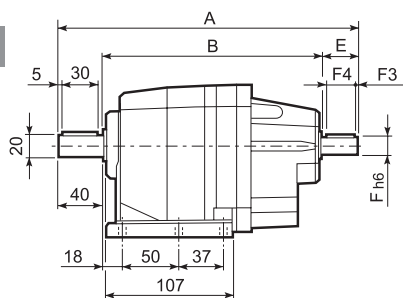
		D	M	M1	M2	N	N1	N2	N4	X	P	Kg
C 12 2	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	216	6
C 12 2	SK60B	102	14	16.3	5	82	75	60	M5x10	4	223	5
C 12 2	SK80A	115	14	16.3	5	90	100	80	M6x12	4	223	5
C 12 2	SK80C	120	19	21.8	6	96	100	80	M6x12	4	264	7
C 12 2	SK95A	130	14	16.3	5	102	115	95	M8x12	4	264	6
C 12 2	SK95B	130	19	21.8	6	102	115	95	M8x12	4	264	7
C 12 2	SK95C	130	24	27.3	8	102	115	95	M8x12	4	264	7
C 12 2	SK110A	150	19	21.8	6	120	130	110	M8x12	5	264	7
C 12 2	SK110B	150	24	27.3	8	120	130	110	M8x12	5	264	7

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	 Kg
C 12 2	SC60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	243	7
C 12 2	SC60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	243	6
C 12 2	SC80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	243	6
C 12 2	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	287.5	8
C 12 2	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	287.5	7
C 12 2	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	287.5	8
C 12 2	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	287.5	8
C 12 2	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	287.5	10
C 12 2	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	287.5	10



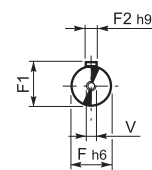
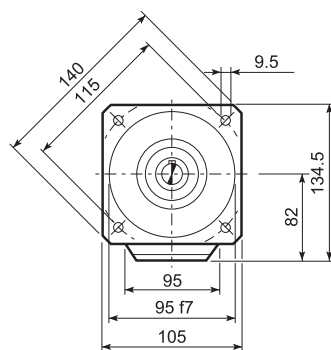
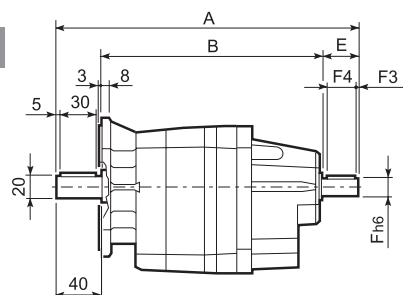
C 12...HS

P



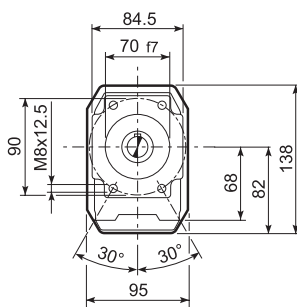
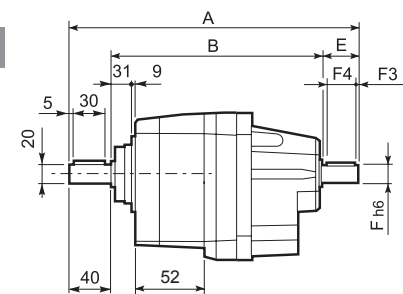
OUTPUT

F

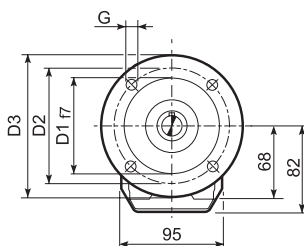
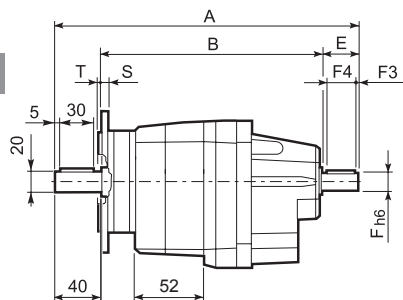


INPUT

U



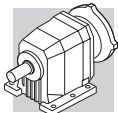
UF



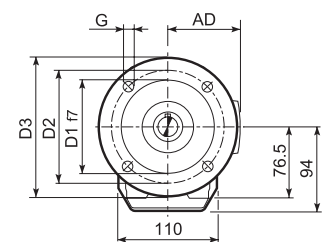
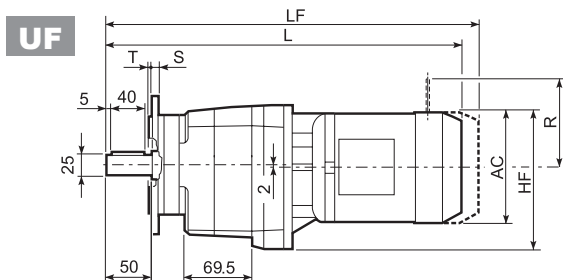
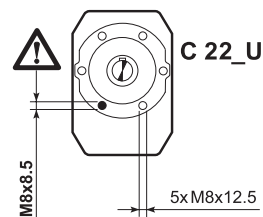
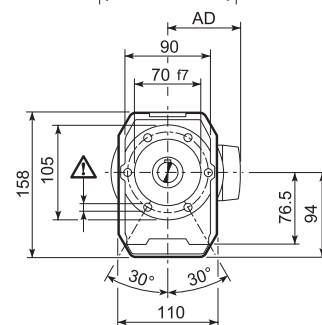
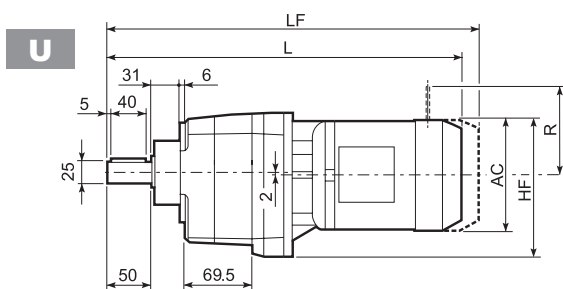
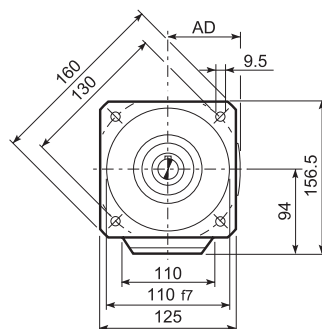
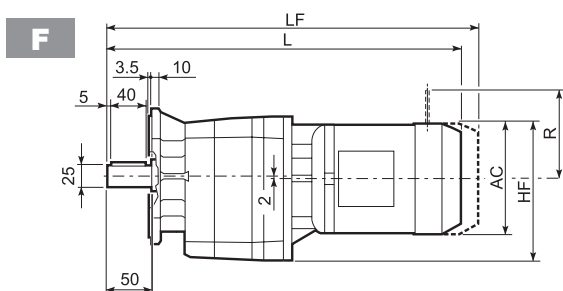
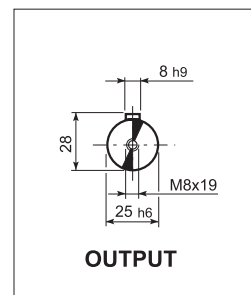
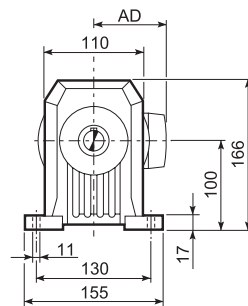
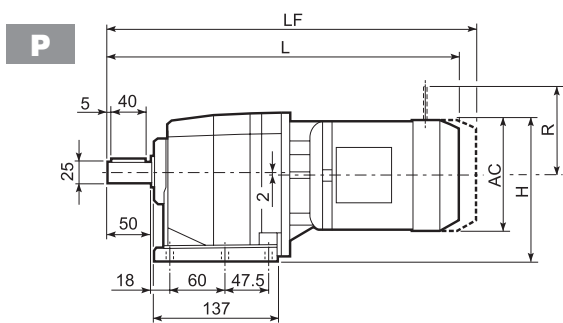
C 12 2 U

	D1	D2	D3	G	T	S
FA	80	100	120	7	3	8
FB	95	115	140	9	3	10
FC	110	130	160	9	3	10

		A	B	E	F	F1	F2	F3	F4	V	Kg
C 12 2	HS	251.5	171.5	40	16	18	5	2.5	35	M6x16	7.8

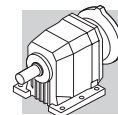


C 22...M



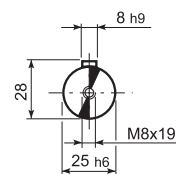
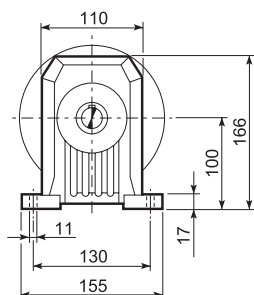
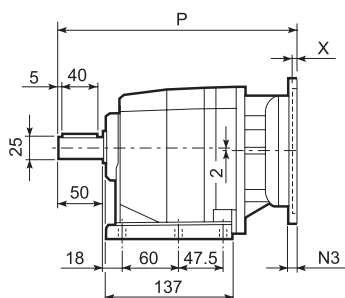
C 22 U						
	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD		LF		R	AD	R	AD
C 22 2	S05	M05	121	160.5	154.5	399	95	8	465	10	96	119	116	95
C 22 2	S1	M1	138	169	163	428	108	11	489	14	103	135	124	108
C 22 2	S2	M2S	156	178	170	456	119	16	527	19	129	146	134	119
C 22 2	S3	M3S	195	197.5	191.5	500	142	21	596	26	160	158	160	142
C 22 2	S3	M3L	195	197.5	191.5	532	142	27	623	32	160	158	160	142
C 22 3	S05	M05	121	160.5	154.5	454.5	95	11	520.5	12	96	122	116	95
C 22 3	S1	M1	138	169	163	483.5	108	13	544.5	15	103	135	124	108
C 22 3	S2	M2S	156	178	170	511.5	119	18	582.5	21	129	146	134	119
C 22 3	S3	M3S	195	197.5	191.5	555.5	142	23	601.5	28	160	158	160	142
C 22 3	S3	M3L	195	197.5	191.5	587.5	142	29	678.5	34	160	158	160	142



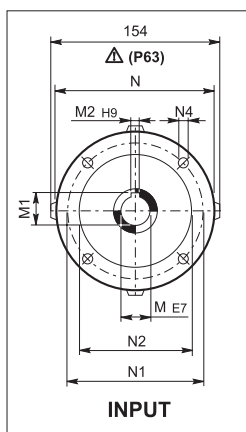
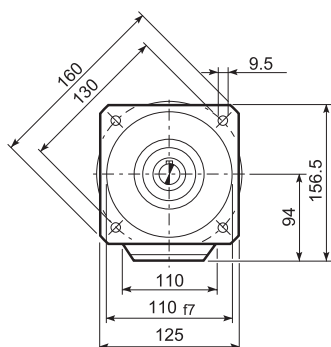
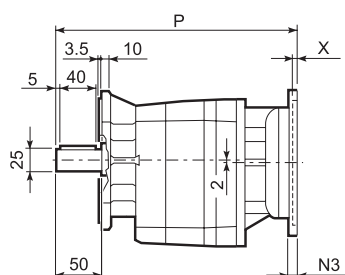
C 22...P(IEC)

P



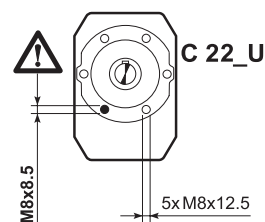
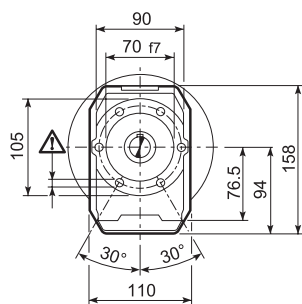
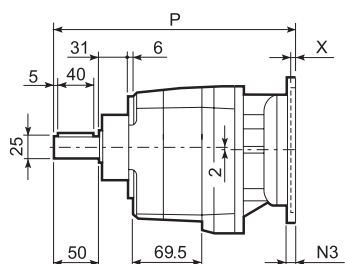
OUTPUT

F

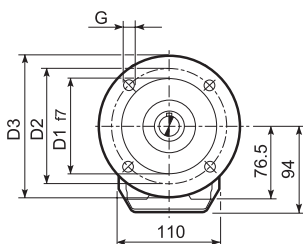
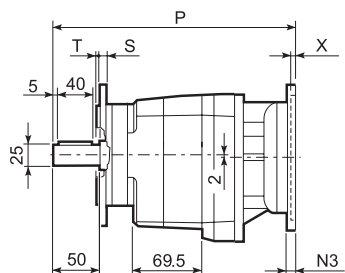


INPUT

U



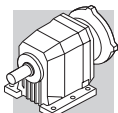
UF



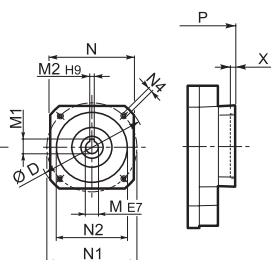
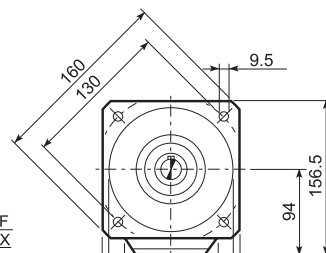
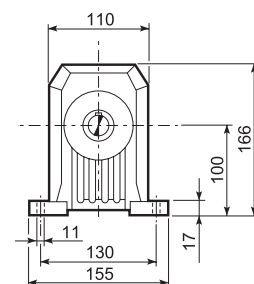
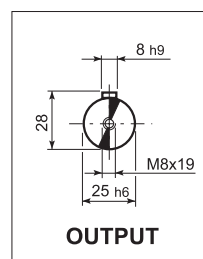
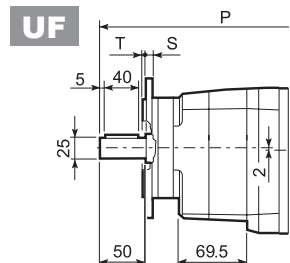
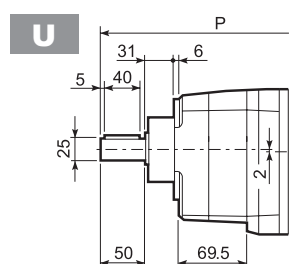
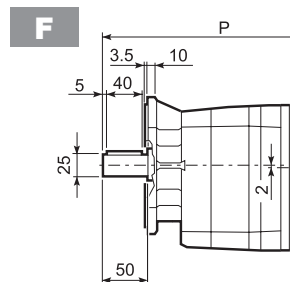
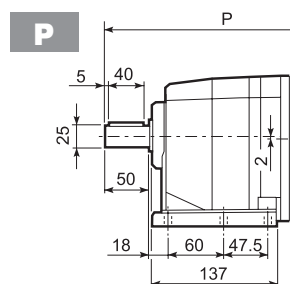
C 22_U

	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

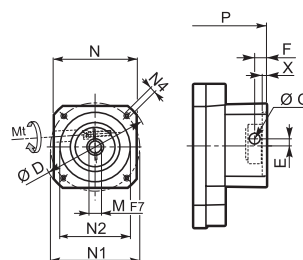
		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 22 2	P63	11	12.8	4	140	115	95	—	M8x19	4	273	7
C 22 2	P71	14	16.3	5	160	130	110	—	M8x16	4.5	273	7
C 22 2	P80	19	21.8	6	200	165	130	—	M10x14.5	4	292.5	8
C 22 2	P90	24	27.3	8	200	165	130	—	M10x14.5	4	292.5	8
C 22 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	302.5	12
C 22 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	302.5	12
C 22 3	P63	11	12.8	4	140	115	95	—	M8x19	4	328.5	8
C 22 3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	328.5	8
C 22 3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	348	9
C 22 3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	348	9
C 22 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	358	13
C 22 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	358	13



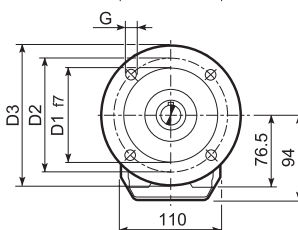
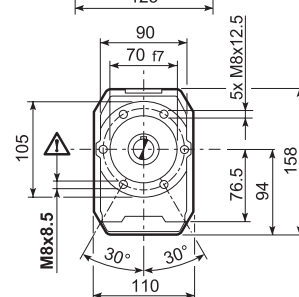
C 22...SK / SC



SK...



SC...

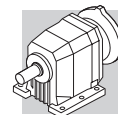


C 22_U						
	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

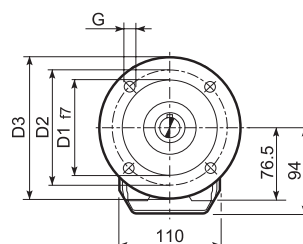
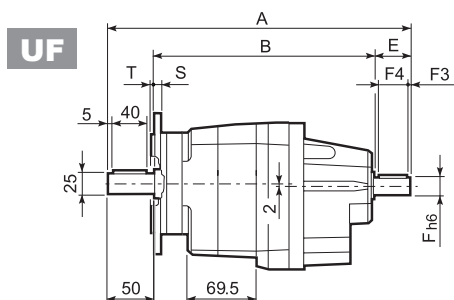
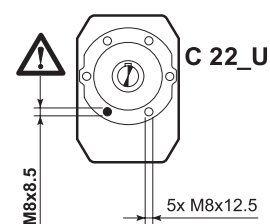
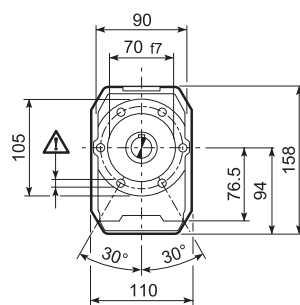
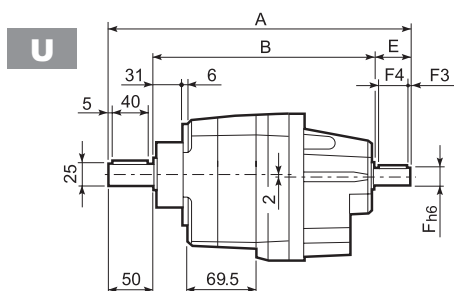
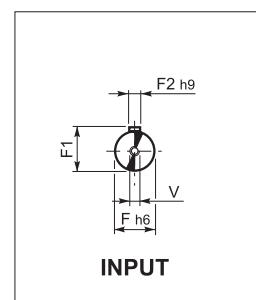
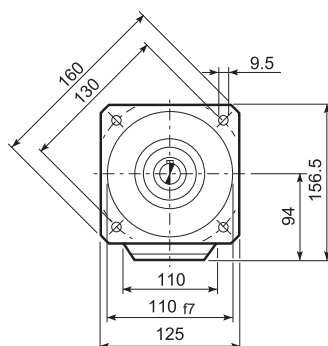
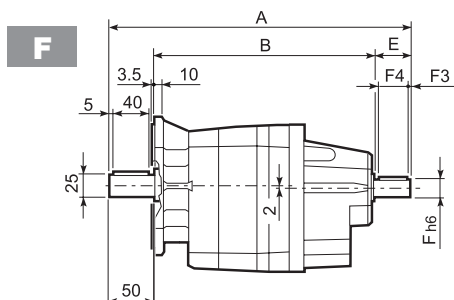
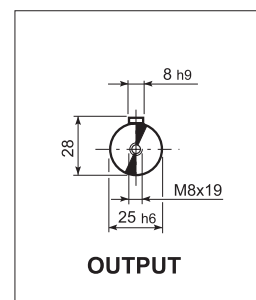
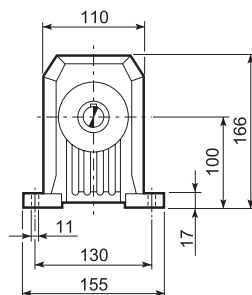
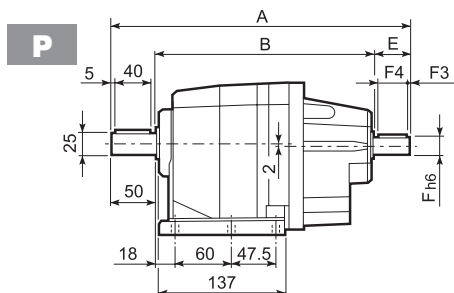
		D	M	M1	M2	N	N1	N2	N4	X	P		
											2x	3x	Kg
C 22 2/3	SK60A*	102	11	12.8	4	82	75	60	M5x10	3.5	224.5	300	6/9
C 22 2/3	SK60B*	102	14	16.3	5	82	75	60	M5x10	4	251.5	307	7/8
C 22 2/3	SK80A*	115	14	16.3	5	90	100	80	M6x12	4	251.5	307	7/8
C 22 2/3	SK80B	120	19	21.8	6	96	100	80	M6x12	4	292.5	348	8/9
C 22 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	292.5	348	8/9
C 22 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	292.5	348	8/9
C 22 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	292.5	348	8/9
C 22 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	292.5	348	8/9
C 22 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	292.5	348	8/9

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		
														2x	3x	Kg
C 22 2/3	SC60A*	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	271.5	327	7/8
C 22 2/3	SC60B*	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	271.5	327	8/9
C 22 2/3	SC80A*	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	271.5	327	8/9
C 22 2/3	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	316	371.5	9/10
C 22 2/3	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	316	371.5	9/10
C 22 2/3	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	316	371.5	9/10
C 22 2/3	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	316	371.5	9/10
C 22 2/3	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	316	371.5	10/11
C 22 2/3	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	316	371.5	10/11

* Contatar nuestro Servicio Técnico comunicando los datos relativos a la aplicación

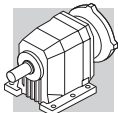


C 22...HS

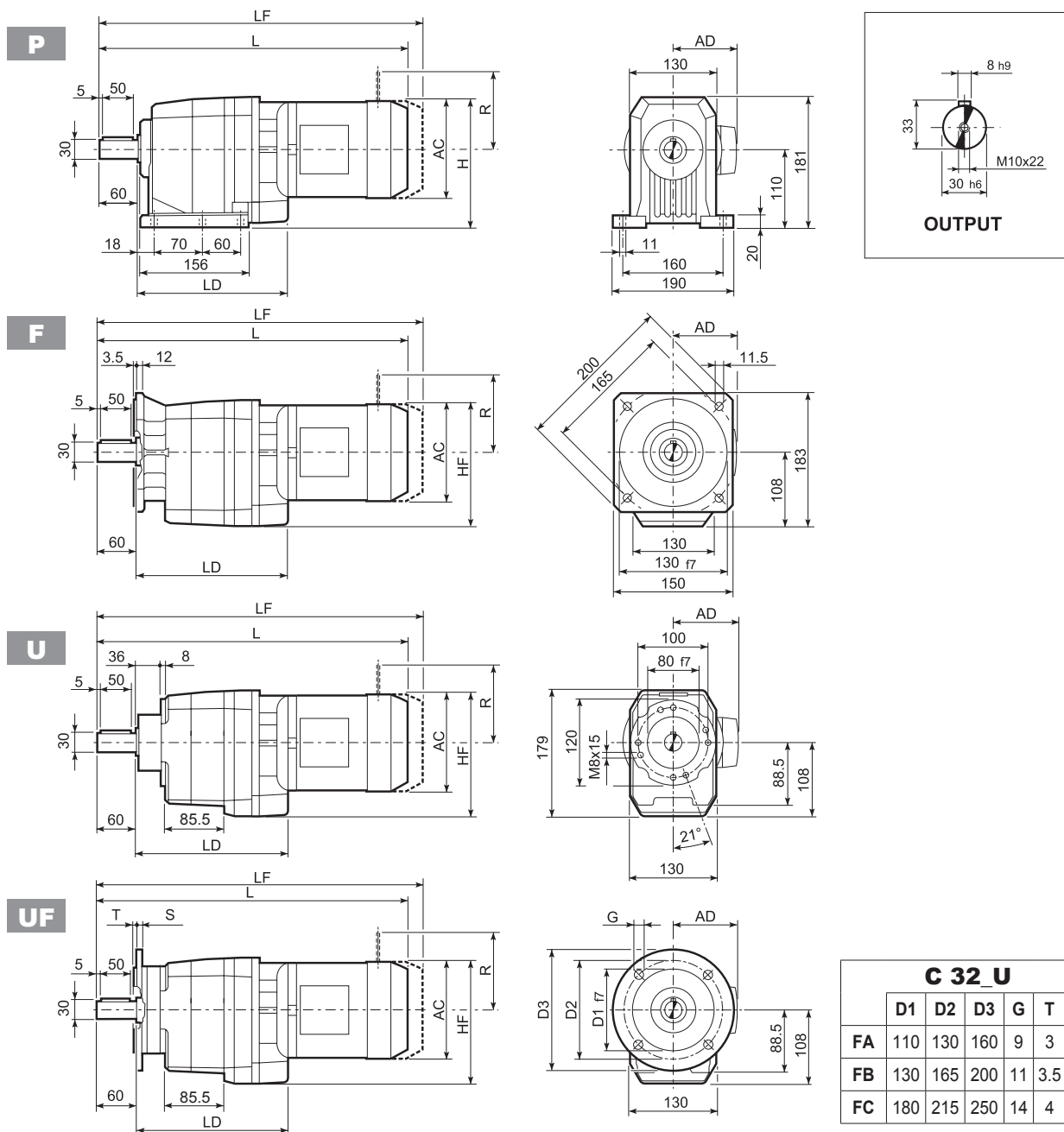


C 22_U						
	D1	D2	D3	G	T	S
FA	95	115	140	9	3	10
FB	110	130	160	9	3	10
FC	130	165	200	11	3.5	11

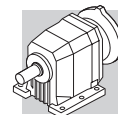
		A	B	E	F	F1	F2	F3	F4	V	Kg
C 22 2	HS	323	233	40	19	21.5	6	2.5	35	M6x16	7.2
C 22 3		335.5	245.5	40	16	18	6	2.5	36	M6x16	7.5



C 32...M

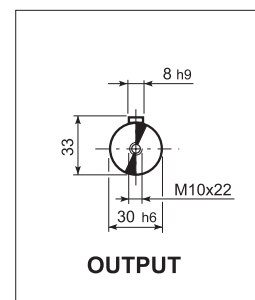
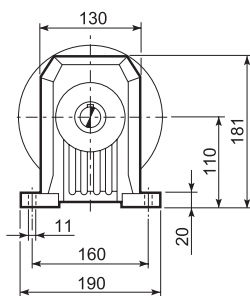
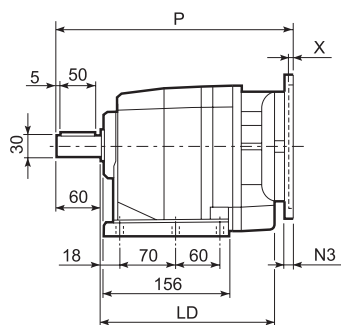


											M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	LD	AD		LF		R	AD	R	AD	
C 32 2	S1	M1	138	179	177	462.5	205.5	108	14	523.5	16	103	135	124	108	
C 32 2	S2	M2S	156	188	186	490.5	217.5	119	18	561.5	21	129	146	134	119	
C 32 2	S3	M3S	195	207.5	205.5	534.5	227.5	142	23	630.5	28	160	158	160	142	
C 32 2	S3	M3L	195	207.5	205.5	566.5	227.5	142	32	657.5	37	160	158	160	142	
C 32 2	S4	M4	258	239	237	674.5	—	193	66	738.5	82	226	210	217	193	
C 32 2	S4	M4LC	258	239	237	709.5	—	193	74	763.5	90	226	210	217	193	
C 32 3	S05	M05	121	170.5	168.5	491	—	95	13	557	15	96	122	116	95	
C 32 3	S1	M1	138	179	177	520	—	108	15	581	17	103	135	124	108	
C 32 3	S2	M2S	156	188	186	548	—	119	18	619	21	129	146	134	119	
C 32 3	S3	M3S	195	207.5	205.5	592	—	142	24	688	29	160	158	160	142	
C 32 3	S3	M3L	195	207.5	205.5	624	—	142	33	715	38	160	158	160	142	

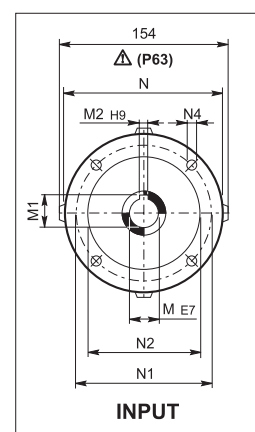
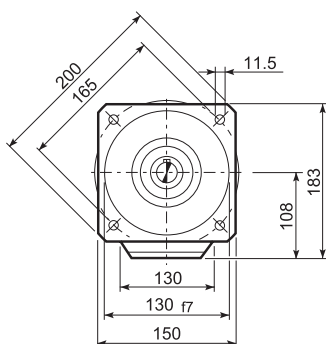
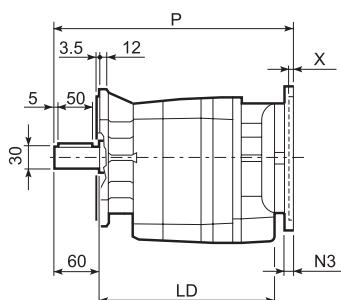


C 32...P(IEC)

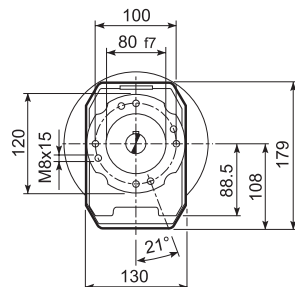
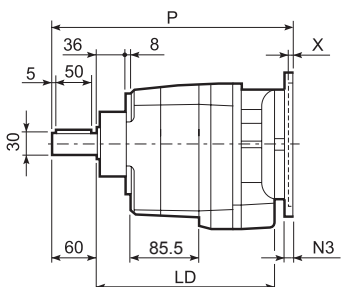
P



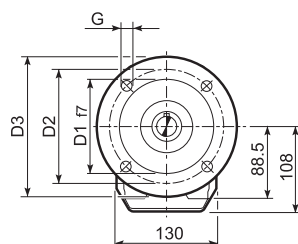
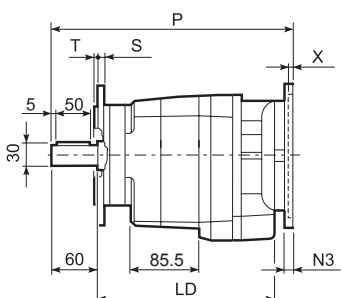
F



U



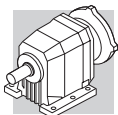
UF



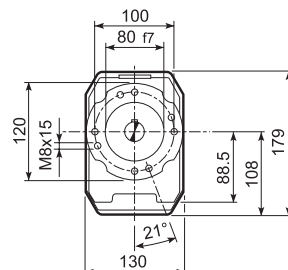
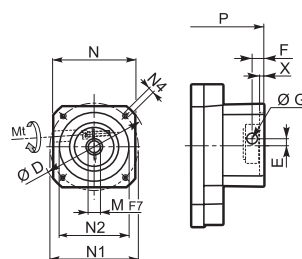
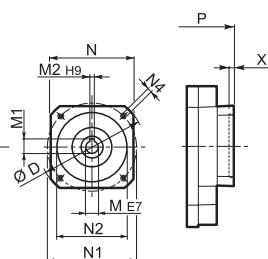
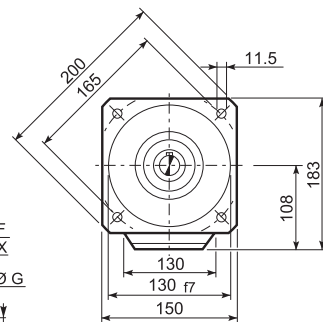
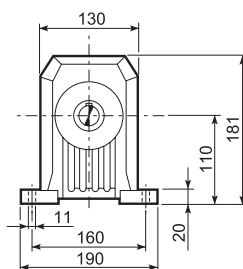
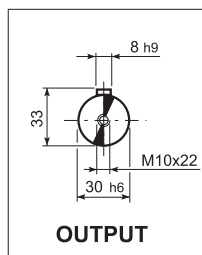
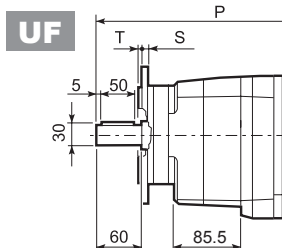
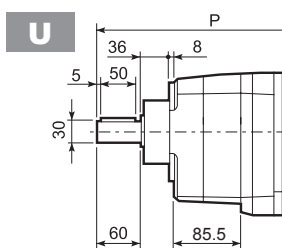
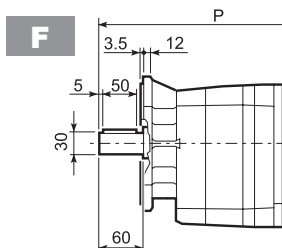
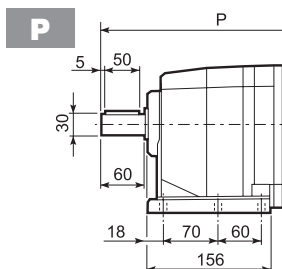
C 32_U

	D1	D2	D3	G	T	S
FA	110	130	160	9	3	10
FB	130	165	200	11	3.5	11
FC	180	215	250	14	4	13

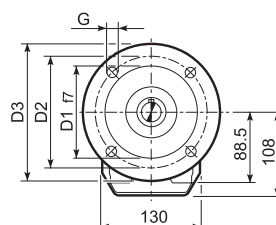
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 32 2	P63	217.5	11	12.8	4	140	115	95	—	M8x19	4	307.5	9
C 32 2	P71	217.5	14	16.3	5	160	130	110	—	M8x16	4.5	307.5	9
C 32 2	P80	227.5	19	21.8	6	200	165	130	—	M10x14.5	4	327	10
C 32 2	P90	227.5	24	27.3	8	200	165	130	—	M10x14.5	4	327	10
C 32 2	P100	227.5	28	31.3	8	250	215	180	—	M12x16	4.5	337	14
C 32 2	P112	227.5	28	31.3	8	250	215	180	—	M12x16	4.5	337	14
C 32 2	P132	—	38	41.3	10	300	265	230	16	14	5	373	17
C 32 3	P63	—	11	12.8	4	140	115	95	—	M8x19	4	365	10
C 32 3	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	365	10
C 32 3	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	384.5	11
C 32 3	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	384.5	11
C 32 3	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	394.5	15
C 32 3	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	394.5	15



C 32...SK / SC

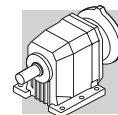


C 32_U						
	D1	D2	D3	G	T	S
FA	110	130	160	9	3	10
FB	130	165	200	11	3.5	11
FC	180	215	250	14	4	13



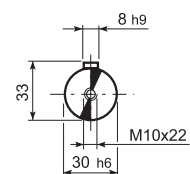
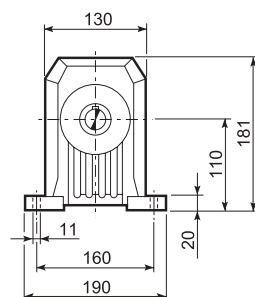
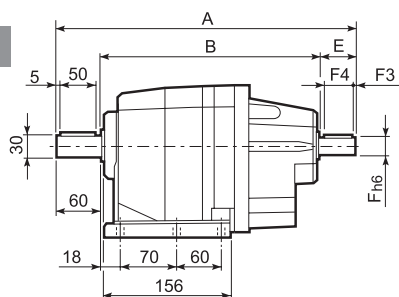
		D	M	M1	M2	N	N1	N2	N4	X	2x	3x	
C 32 2/3	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	279	336.5	8/9
C 32 2/3	SK60B	102	14	16.3	5	82	75	60	M5x10	4	286	343.5	9/10
C 32 2/3	SK80A	115	14	16.3	5	90	100	80	M6x12	4	286	343.5	9/10
C 32 2/3	SK80C	120	19	21.8	6	96	100	80	M6x12	4	327	384.5	10/11
C 32 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	327	384.5	10/11
C 32 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	327	384.5	10/11
C 32 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	327	384.5	10/11
C 32 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	327	384.5	10/11
C 32 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	327	384.5	10/11
C 32 2	SK130A	188	24	27.3	8	142	165	130	M10x20	5	327	—	11

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2x	3x	
C 32 2/3	SC60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	306	363.5	9/10
C 32 2/3	SC60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	306	363.5	10/11
C 32 2/3	SC80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	306	363.5	10/11
C 32 2/3	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	350.5	408	11/12
C 32 2/3	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	350.5	408	11/12
C 32 2/3	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	350.5	408	11/12
C 32 2/3	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	350.5	408	11/12
C 32 2/3	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	350.5	408	12/13
C 32 2/3	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	350.5	408	12/13
C 32 2	SC 130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	350.5	—	13



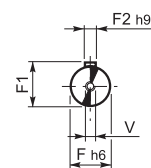
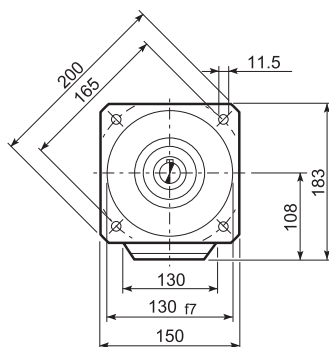
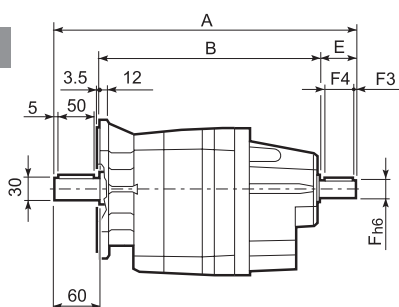
C 32...HS

P



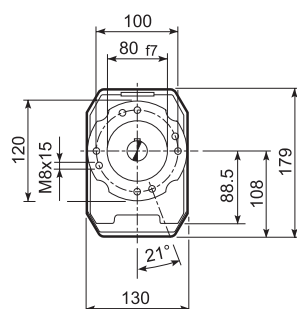
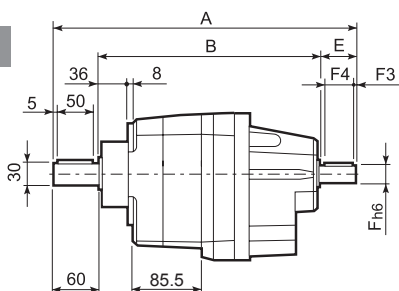
OUTPUT

F

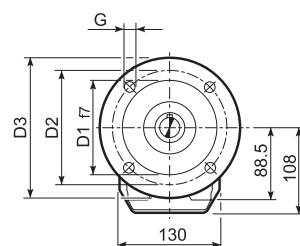
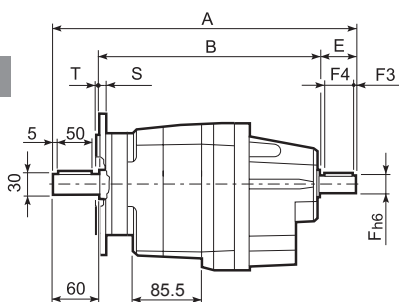


INPUT

U



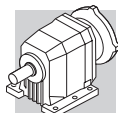
UF



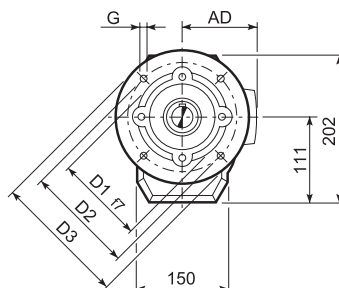
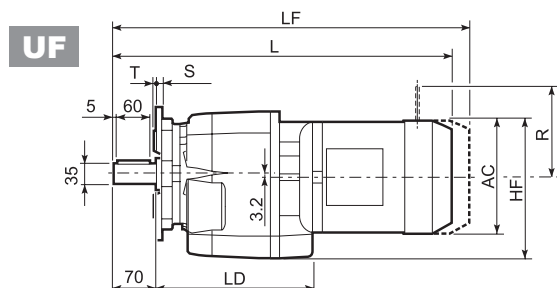
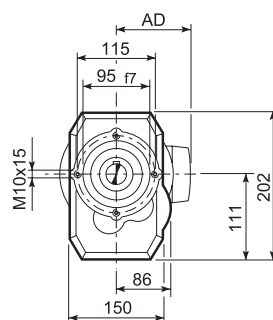
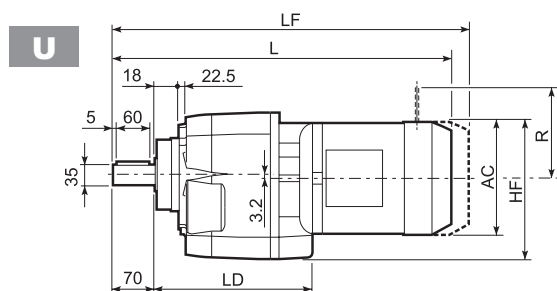
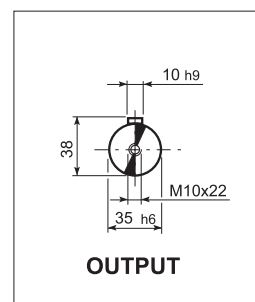
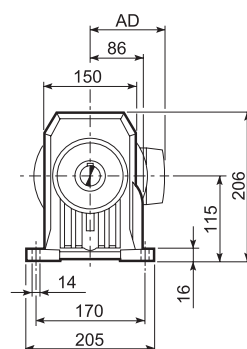
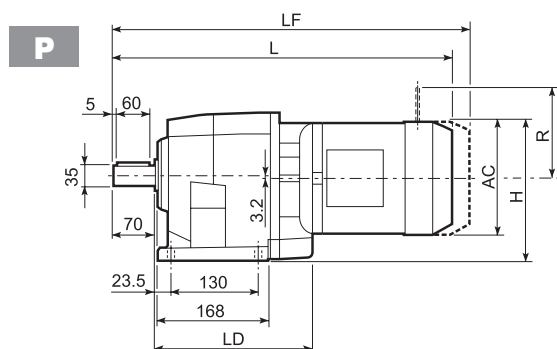
C 32_U

	D1	D2	D3	G	T	S
FA	110	130	160	9	3	10
FB	130	165	200	11	3.5	11
FC	180	215	250	14	4	13

		A	B	E	F	F1	F2	F3	F4	V	Kg
C 32 2	HS	357.5	257.5	40	19	21.5	6	2.5	35	M6x16	11.1
C 32 3		372	272	40	16	18	5	2.5	35	M6x16	10.6

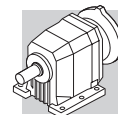


C 36...M



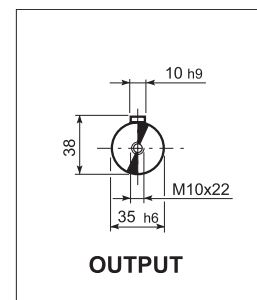
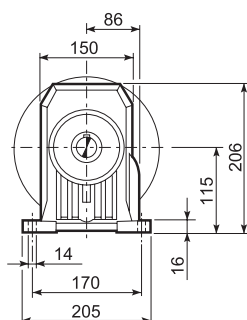
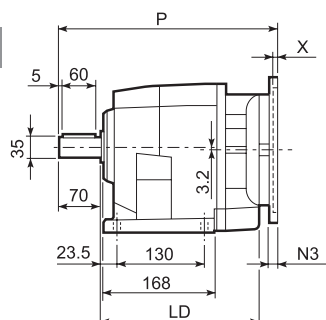
C 36_U						
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	14

										M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	LD	AD		LF		R	AD	R	AD
C 36 2/3	S1	M1	138	184	177	481	214	108	20	542	21	103	135	124	108
C 36 2/3	S2	M2S	156	193	186	509	226	119	23	580	27	129	146	134	119
C 36 2/3	S3	M3S	195	212.5	205.5	553	236	142	28	649	33	160	158	160	142
C 36 2/3	S3	M3L	195	212.5	205.5	585	236	142	37	676	42	160	158	160	142
C 36 2/3	S4	M4	258	244	240	693.5	—	193	71	802.5	87	226	210	217	193
C 36 2/3	S4	M4LC	258	244	240	728.5	—	193	79	827.5	95	226	210	217	193
C 36 4	S05	M05	121	175.5	168.5	509.5	—	95	19	575.5	20	96	122	116	95
C 36 4	S1	M1	138	184	177	538.5	—	108	21	599.5	22	103	135	124	108
C 36 4	S2	M2S	156	193	186	566.5	—	119	24	637.5	28	129	146	134	119
C 36 4	S3	M3S	195	212.5	205.5	610.5	—	142	29	706.5	34	160	158	160	142
C 36 4	S3	M3L	195	212.5	205.5	642.5	—	142	38	733.5	43	160	158	160	142

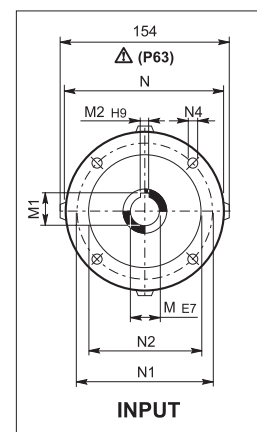
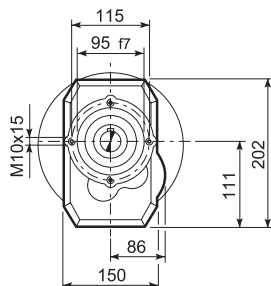
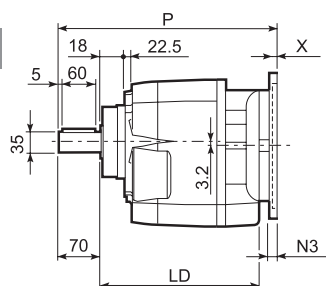


C 36...P(IEC)

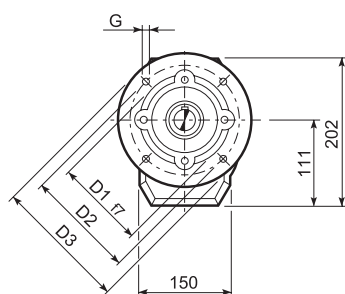
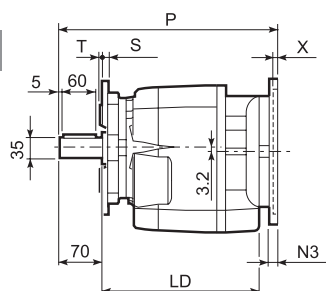
P



U



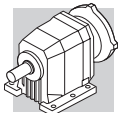
UF



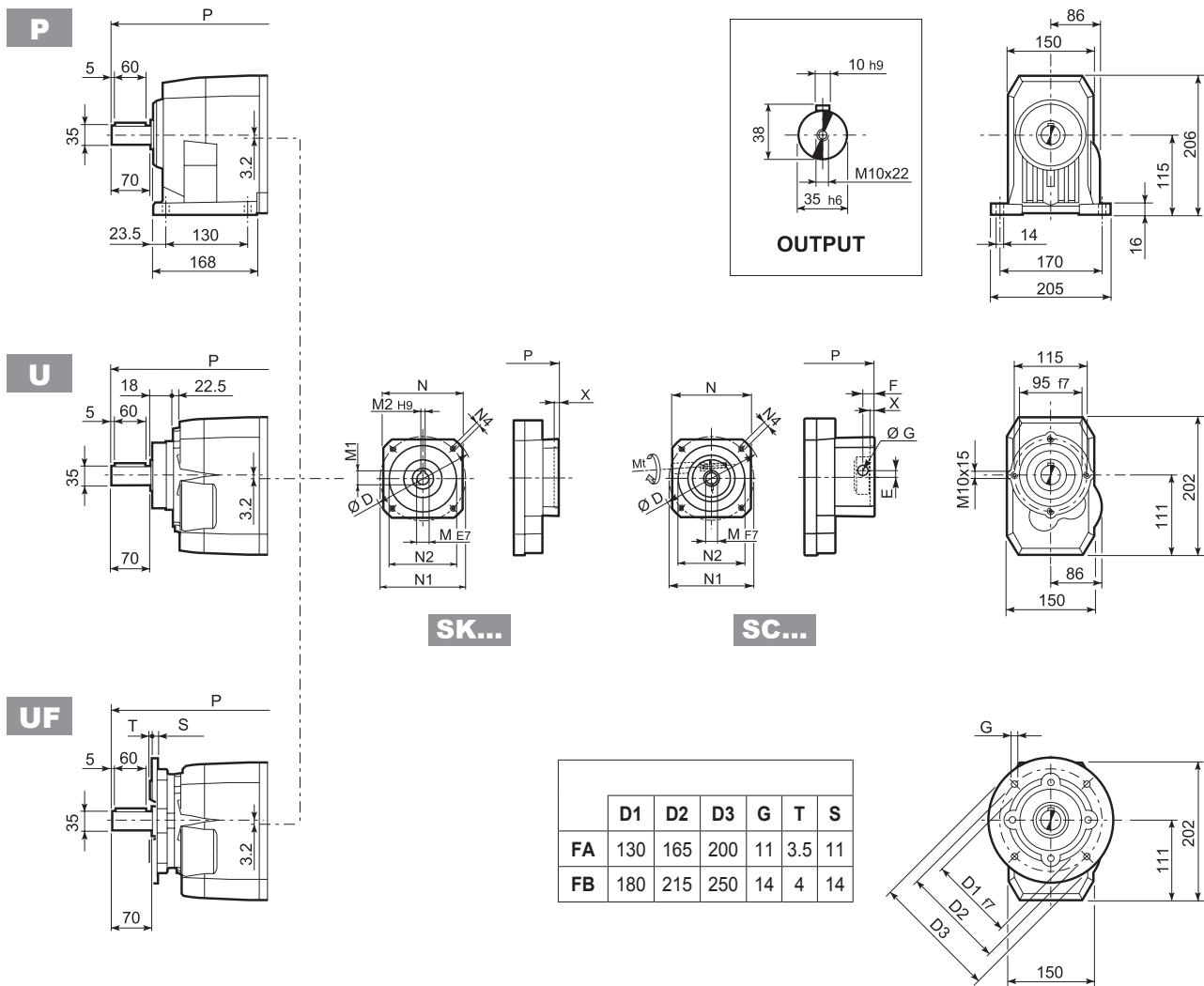
C 36 U

	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	14

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 36 2/3	P63	226	11	12.8	4	140	115	95	—	M8x19	4	326	17
C 36 2/3	P71	226	14	16.3	5	160	130	110	—	M8x16	4.5	326	17
C 36 2/3	P80	236	19	21.8	6	200	165	130	—	M10x14.5	4	345.5	18
C 36 2/3	P90	236	24	27.3	8	200	165	130	—	M10x14.5	4	345.5	18
C 36 2/3	P100	236	28	31.3	8	250	215	180	—	M12x16	4.5	355.5	22
C 36 2/3	P112	236	28	31.3	8	250	215	180	—	M12x16	4.5	355.5	22
C 36 2/3	P132	—	38	41.3	10	300	265	230	16	14	5	392.5	25
C 36 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	383.5	20
C 36 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	383.5	20
C 36 4	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	403	21
C 36 4	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	403	21
C 36 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	413	25
C 36 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	413	25

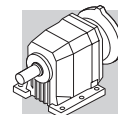


C 36...SK / SC



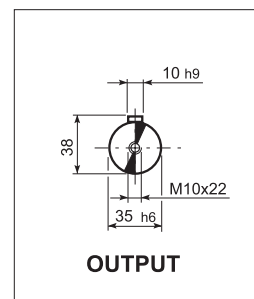
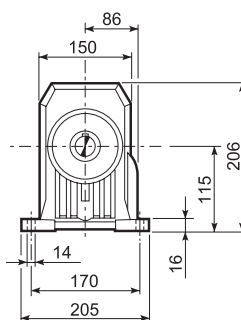
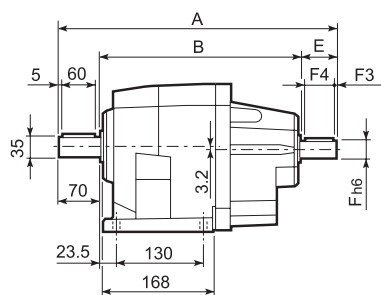
		D	M	M1	M2	N	N1	N2	N4	X	$\frac{2}{3}x$	$4x$	Kg
C 36 2/3/4	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	297.5	355	16/16/19
C 36 2/3/4	SK60B	102	14	16.3	5	82	75	60	M5x10	4	304.5	362	17/17/20
C 36 2/3/4	SK80A	115	14	16.3	5	90	100	80	M6x12	4	304.5	362	18/18/21
C 36 2/3/4	SK80C	120	19	21.8	6	96	100	80	M6x12	4	304.5	403	18/18/21
C 36 2/3/4	SK95A	130	14	16.3	5	102	115	95	M8x12	4	345.5	403	18/18/21
C 36 2/3/4	SK95B	130	19	21.8	6	102	115	95	M8x12	4	345.5	403	18/18/21
C 36 2/3/4	SK95C	130	24	27.3	8	102	115	95	M8x12	4	345.5	403	18/18/21
C 36 2/3/4	SK110A	150	19	21.8	6	120	130	110	M8x12	5	345.5	403	18/18/21
C 36 2/3/4	SK110B	150	24	27.3	8	120	130	110	M8x12	5	345.5	403	18/18/21
C 36 2/3	SK130A	188	24	27.3	8	142	165	130	M10x20	5	345.5	—	19/19

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	$\frac{2}{3}x$	$4x$	Kg
C 36 2/3/4	SC60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	324.5	382	17/17/20
C 36 2/3/4	SC60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	324.5	382	18/18/21
C 36 2/3/4	SC80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	324.5	426.5	18/18/21
C 36 2/3/4	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	369	426.5	19/19/22
C 36 2/3/4	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	369	426.5	19/19/22
C 36 2/3/4	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	369	426.5	19/19/22
C 36 2/3/4	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	369	426.5	19/19/22
C 36 2/3/4	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	369	426.5	21/21/24
C 36 2/3/4	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	369	426.5	21/21/24
C 36 2/3	SC130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	369	—	22/22

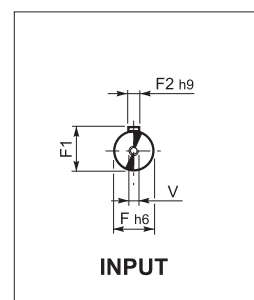
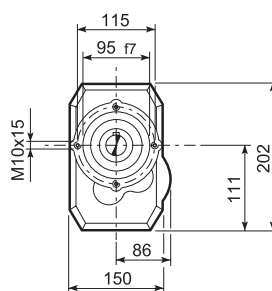
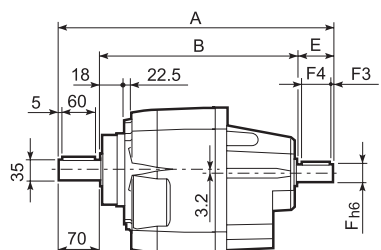


C 36...HS

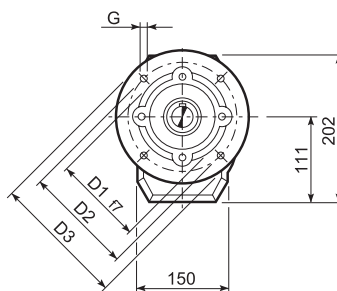
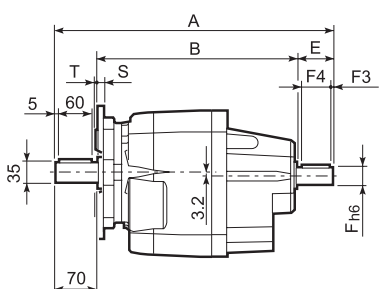
P



U



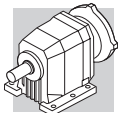
UF



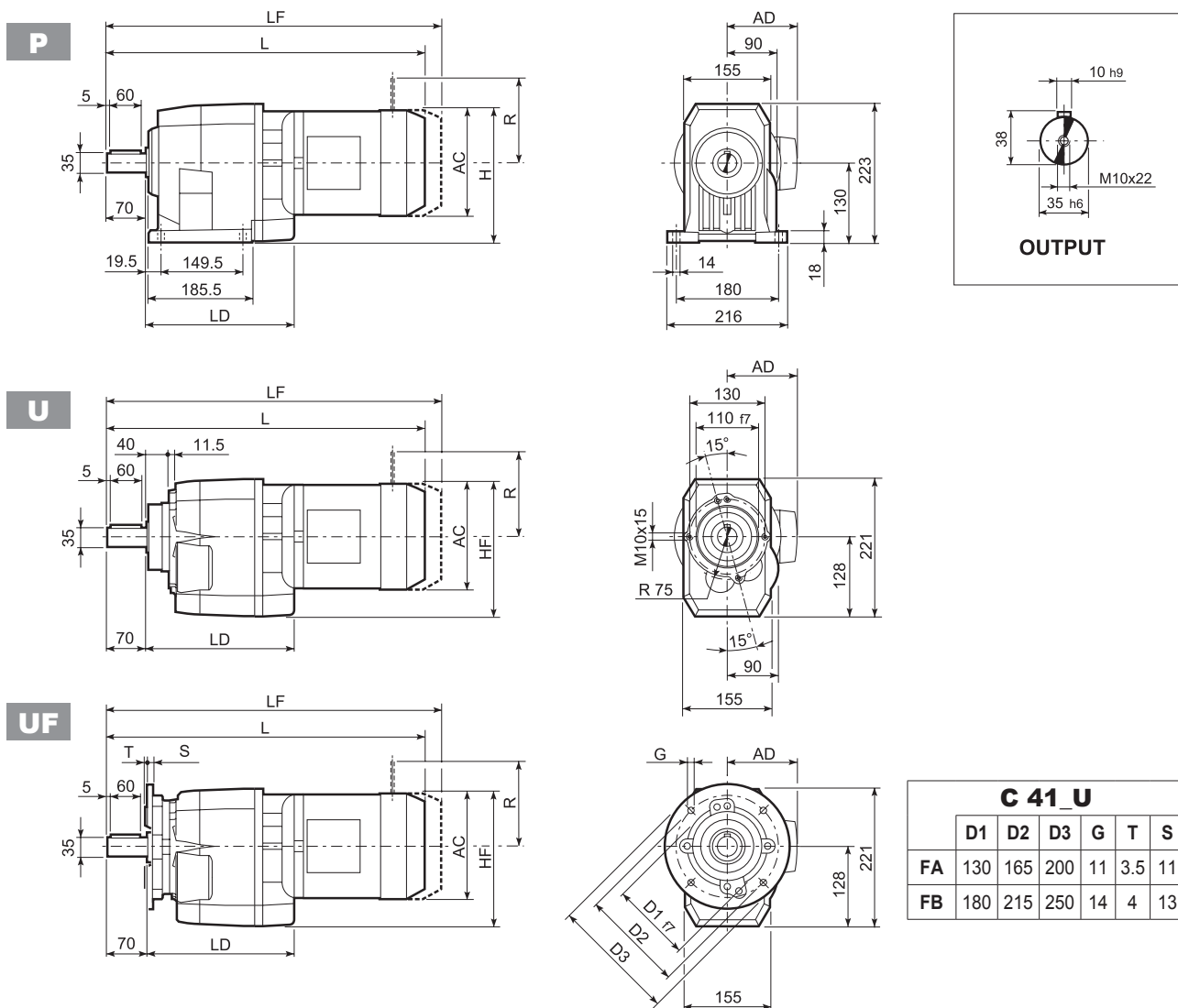
C 36 _ U

	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	14

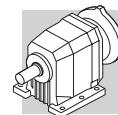
		A	B	E	F	F1	F2	F3	F4	V	kg
C 36 2	HS	415.5	295.5	50	24	27	8	2.5	45	M8x19	25.5
C 36 3		415.5	295.5	50	24	27	8	2.5	45	M8x19	25.5
C 36 4		390.5	280.5	40	16	18	5	2.5	36	M6x16	26.5



C 41...M

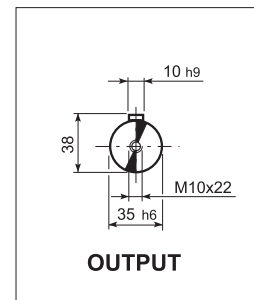
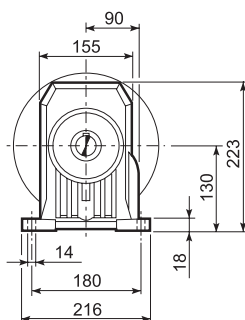
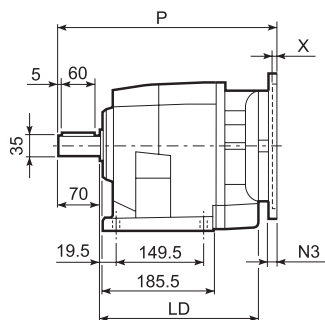


										M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	LD	AD		LF		R	AD	R	AD
C 41 2/3	S1	M1	138	199	197	491.5	220	108	25	552.5	28	103	135	124	108
C 41 2/3	S2	M2S	156	208	206	519.5	235.5	119	31	590.5	34	129	146	134	119
C 41 2/3	S3	M3S	195	227.5	225.5	563.5	251.5	142	36	659.5	41	160	158	160	142
C 41 2/3	S3	M3L	195	227.5	225.5	595.5	251.5	142	45	686.5	50	160	158	160	142
C 41 2/3	S4	M4	258	259	257	703.5	—	193	71	812.5	83	226	210	217	193
C 41 2/3	S4	M4LC	258	259	257	739	—	193	78	838	91	226	210	217	193
C 41 4	S05	M05	231	245.5	243.5	524	—	95	27	590	28	96	122	116	95
C 41 4	S1	M1	138	199	197	553	—	108	28	614	31	103	135	124	108
C 41 4	S2	M2S	156	208	206	581	—	119	34	652	37	129	146	134	119
C 41 4	S3	M3S	195	227.5	225.5	625	—	142	39	721	44	160	158	160	142
C 41 4	S3	M3L	195	227.5	225.5	657	—	142	48	748	53	160	158	160	142

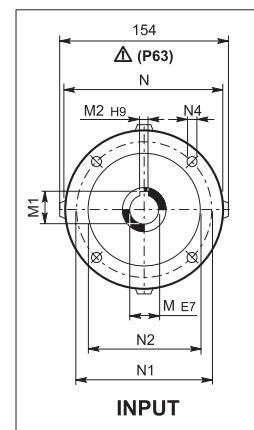
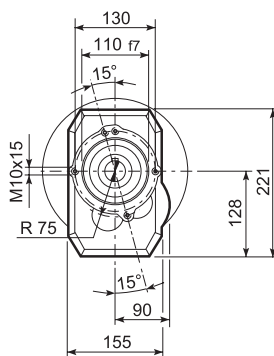
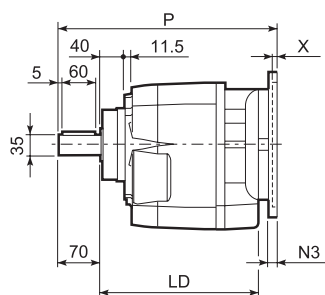


C 41...P(IEC)

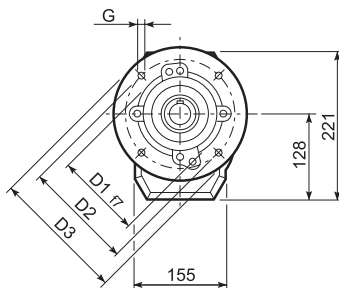
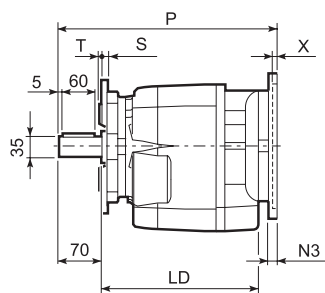
P



U



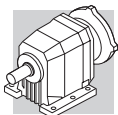
UF



C 41_U

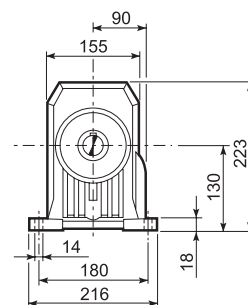
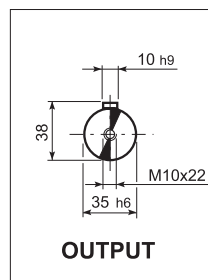
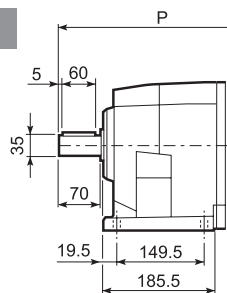
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	13

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 41 2/3	P63	235.5	11	12.8	4	140	115	95	—	M8x19	4	336.5	27
C 41 2/3	P71	235.5	14	16.3	5	160	130	110	—	M8x16	4.5	336.5	28
C 41 2/3	P80	251.5	19	21.8	6	200	165	130	—	M10x14.5	4	356	29
C 41 2/3	P90	251.5	24	27.3	8	200	165	130	—	M10x14.5	4	356	29
C 41 2/3	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	366	33
C 41 2/3	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	366	33
C 41 2/3	P132	—	38	41.3	10	300	265	230	16	14	5	402.5	35
C 41 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	395	30
C 41 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	395	31
C 41 4	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	414.5	32
C 41 4	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	414.5	32
C 41 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	424.5	36
C 41 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	424.5	36

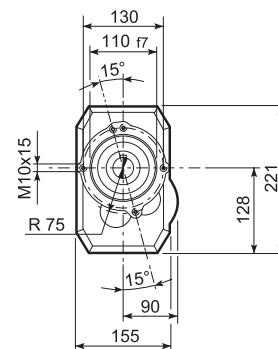
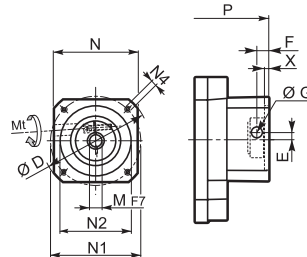
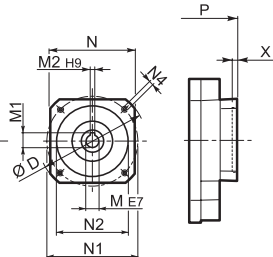
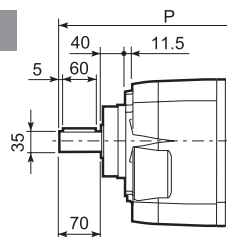


C 41...SK / SC

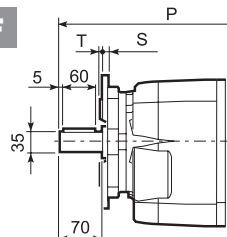
P



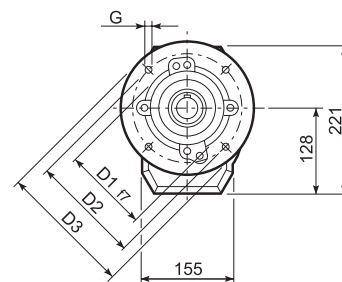
U



UF

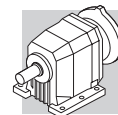


C 41_U					
	D1	D2	D3	G	T S
FA	130	165	200	11	3.5 11
FB	180	215	250	14	4 13



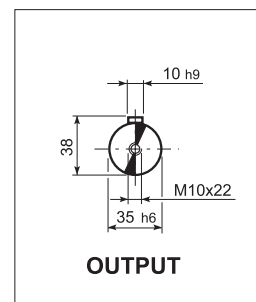
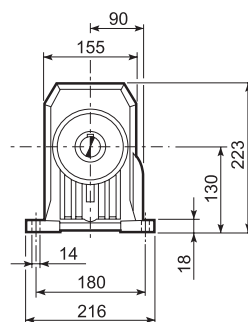
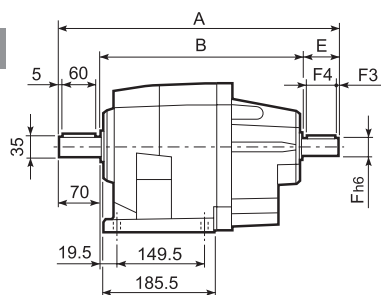
		D	M	M1	M2	N	N1	N2	N4	X	P		kg
											2/3x	4x	
C41 4	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	—	370	31
C41 4	SK60B	102	14	16.3	5	82	75	60	M5x10	4	—	377	32
C41 4	SK80A	115	14	16.3	5	90	100	80	M6x12	4	—	377	32
C41 2/3	SK80B	120	14	16.3	5	96	100	80	M6x12	4	356.5	—	29/29
C41 2/3/4	SK80C	120	19	21.8	6	96	100	80	M6x12	4	356.5	418	29/29/32
C41 2/3/4	SK95A	130	14	16.3	5	102	115	95	M8x12	4	356.5	418	29/29/32
C41 2/3/4	SK95B	130	19	21.8	6	102	115	95	M8x12	4	356.5	418	29/29/33
C41 2/3/4	SK95C	130	24	27.3	8	102	115	95	M8x12	4	356.5	418	29/29/36
C41 2/3/4	SK110A	150	19	21.8	6	120	130	110	M8x12	5	356.5	418	29/29/36
C41 2/3/4	SK110B	150	24	27.3	8	120	130	110	M8x12	5	356.5	418	29/29/36
C41 2/3	SK130A	188	24	27.3	8	142	165	130	M10x20	5	356.5	—	31/31
C41 2/3	SK130B	189	32	35.3	10	160	165	130	M10x20	5	403	—	33/33
C41 2/3	SK180A	240	32	35.3	10	192	215	180	M12x19	5	403	—	33/33
C41 2/3	SK180B	240	38	41.3	10	192	215	180	M12x19	5	403	—	38/38

		 Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		
													2/3x 	4x 	
C41 4	SC60A	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	—	397	32
C41 4	SC60B	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	—	397	33
C41 4	SC80A	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	—	397	33
C41 2/3	SC80B	M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	380	—	30/30
C41 2/3/4	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	380	441.5	30/30/33
C41 2/3/4	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	380	441.5	30/30/34
C41 2/3/4	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	380	441.5	30/30/34
C41 2/3/4	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	380	441.5	30/30/35
C41 2/3/4	SC110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	380	441.5	31/31/39
C41 2/3/4	SC110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	380	441.5	31/31/39
C41 2/3	SC130A	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	380	—	32/32
C41 2/3	SC130B	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	426	—	36/36
C41 2/3	SC180A	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	430	—	36/36
C41 2/3	SC180B	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	430	—	35/35



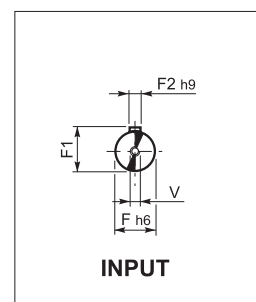
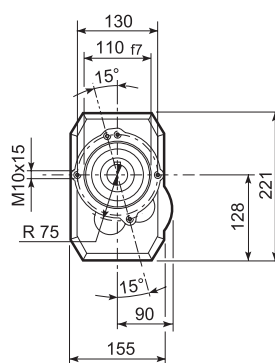
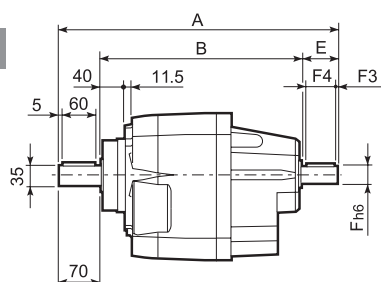
C 41...HS

P



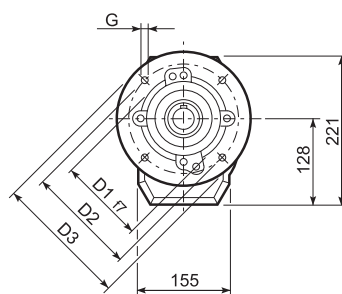
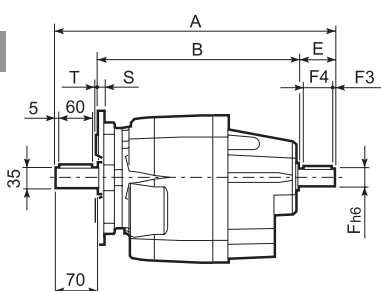
OUTPUT

U



INPUT

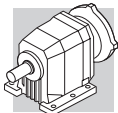
UF



C 41 U

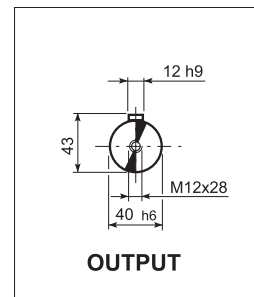
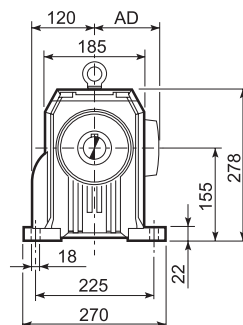
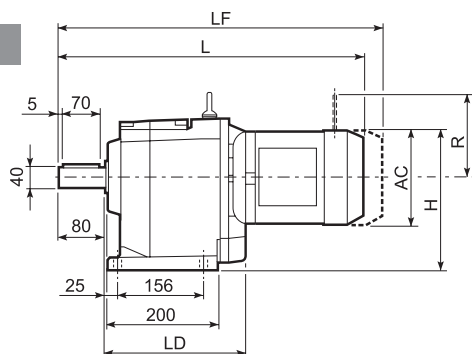
	D1	D2	D3	G	T	S
FA	130	165	200	11	3.5	11
FB	180	215	250	14	4	13

		A	B	E	F	F1	F2	F3	F4	V	kg
C 41 2	HS	425.5	305.5	50	24	27	8	2.5	45	M8x19	30
C 41 3		425.5	305.5	50	24	27	8	2.5	45	M8x19	30
C 41 4		448	338	40	19	21.5	6	2.5	35	M6x16	33

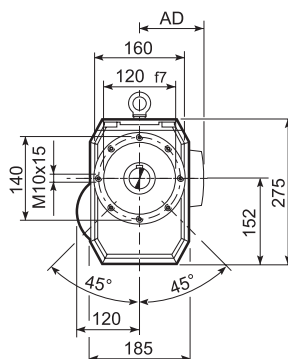
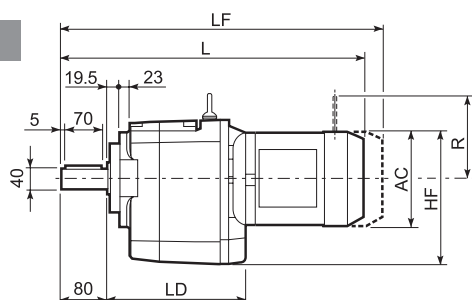


C 51...M

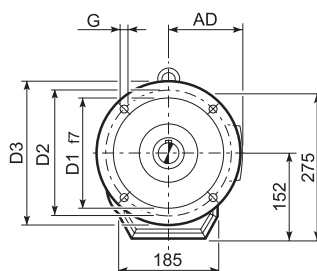
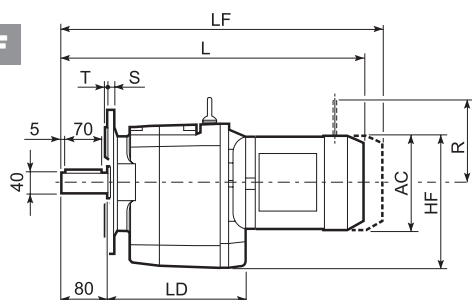
P



U



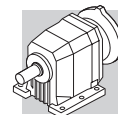
UF



C 51_U

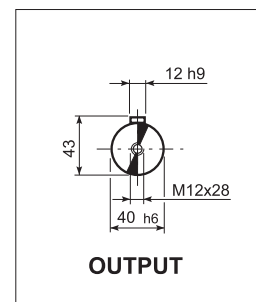
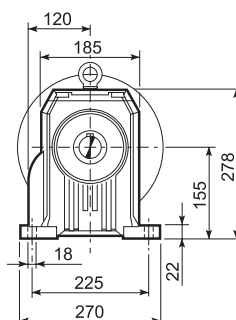
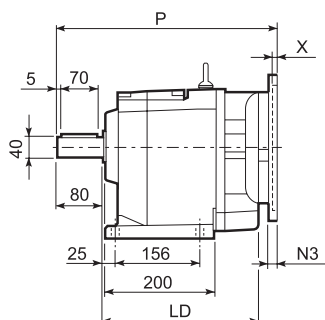
	D1	D2	D3	G	T	S
FA	180	215	250	14	4	13
FB	230	265	300	14	4	16

										M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
C 51 2/3	S1	M1	138	224	221	517.5	—	108	49	578.5	52	103	135	124	108
C 51 2/3	S2	M2S	156	233	230	545.5	252.5	119	53	616.5	57	129	146	134	119
C 51 2/3	S3	M3S	195	252.5	249.5	589.5	267.5	142	58	685.5	65	160	158	160	142
C 51 2/3	S3	M3L	195	252.5	249.5	621.5	267.5	142	65	712.5	72	160	158	160	142
C 51 2/3	S4	M4	258	284	281	729.5	—	193	99	838.5	117	226	210	217	193
C 51 2/3	S4	M4LC	258	284	281	764.5	—	193	107	863.5	125	226	210	217	193
C 51 2/3	S5	M5S	310	310	307	816	—	245	127	956	157	266	245	247	245
C 51 2/3	S5	M5L	310	310	307	860	—	245	143	1000	173	266	245	247	245
C 51 4	S1	M1	138	224	221	589	—	108	52	650	55	103	135	124	108
C 51 4	S2	M2S	156	233	230	617	—	119	56	688	60	129	146	134	119
C 51 4	S3	M3S	195	252.5	249.5	661	—	142	61	757	68	160	158	160	142
C 51 4	S3	M3L	195	252.5	249.5	693	—	142	68	784	75	160	158	160	142

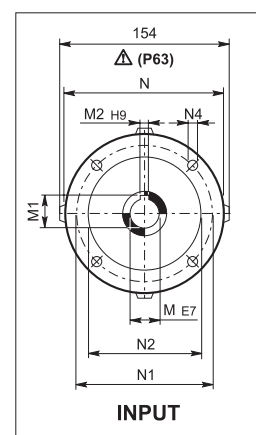
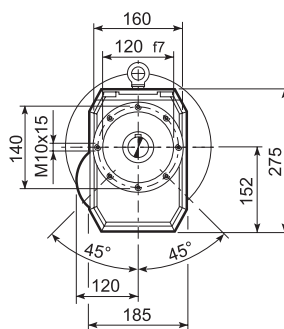
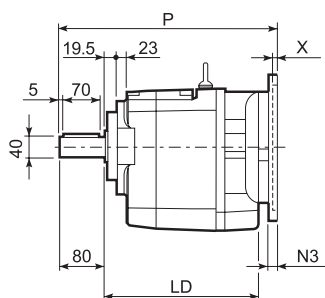


C 51...P(IEC)

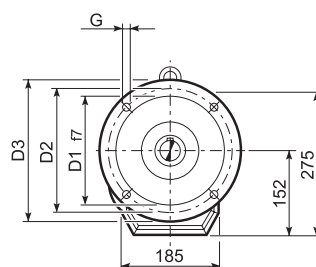
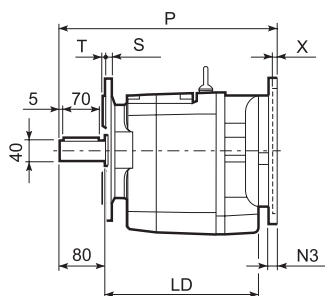
P



U



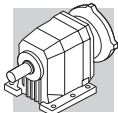
UF



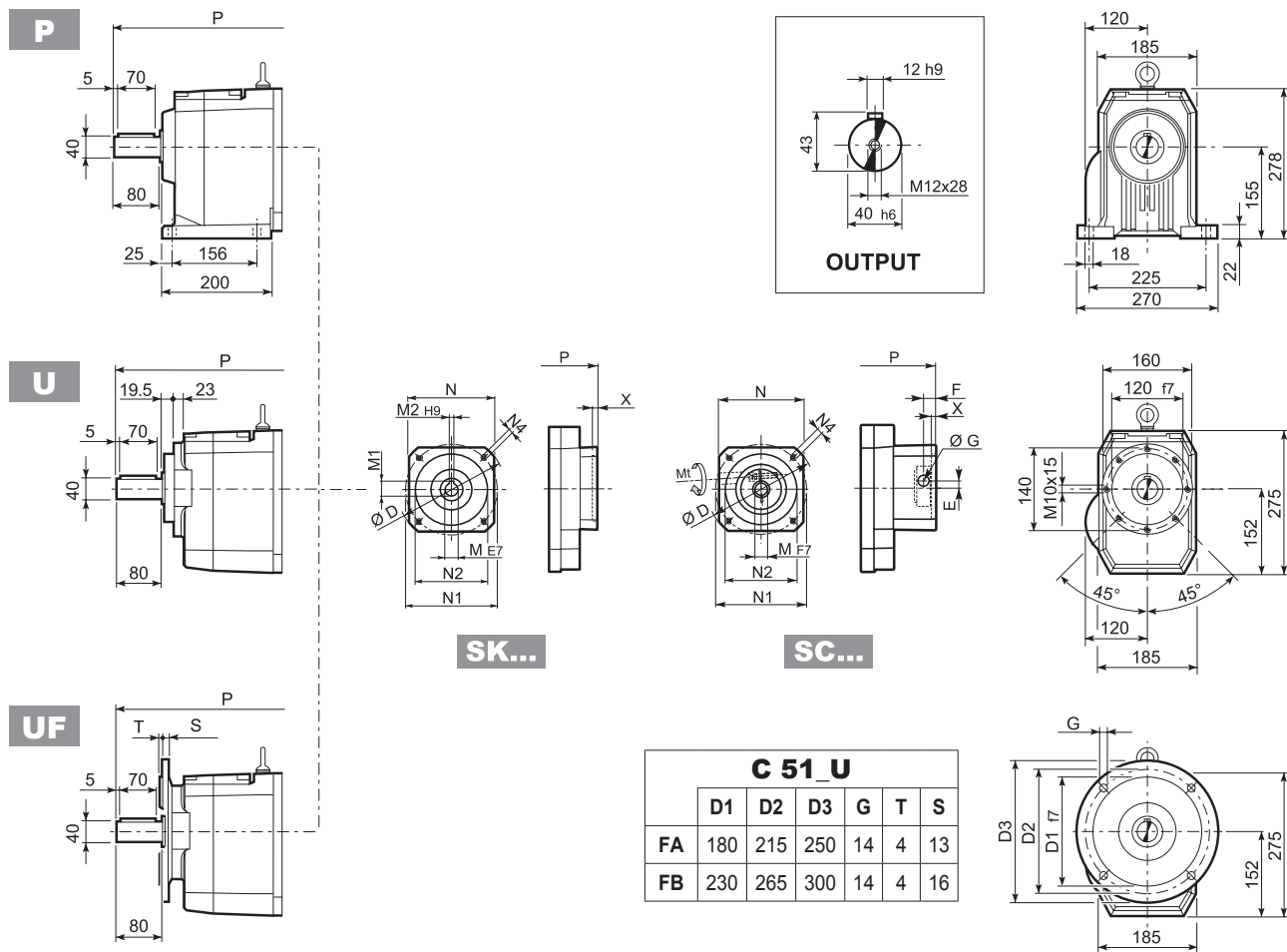
C 51_U

	D1	D2	D3	G	T	S
FA	180	215	250	14	4	13
FB	230	265	300	14	4	16

		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 51 2/3	P63	252.5	11	12.8	4	140	115	95	—	M8x19	4	362.5	45
C 51 2/3	P71	252.5	14	16.3	5	160	130	110	—	M8x16	4.5	362.5	45
C 51 2/3	P80	267.5	19	21.8	6	200	165	130	—	M10x14.5	4	382	47
C 51 2/3	P90	267.5	24	27.3	8	200	165	130	—	M10x14.5	4	382	47
C 51 2/3	P100	252.5	28	31.3	8	250	215	180	—	M12x16	4.5	392	51
C 51 2/3	P112	252.5	28	31.3	8	250	215	180	—	M12x16	4.5	392	51
C 51 2/3	P132	252.5	38	41.3	10	300	265	230	16	14	5	428.5	54
C 51 2/3	P160	—	42	45.3	12	350	300	250	23	18	5.5	479	58
C 51 2/3	P180	—	48	51.8	14	350	300	250	23	18	5.5	479	58
C 51 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	434	47
C 51 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	434	47
C 51 4	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	453.5	49
C 51 4	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	463.5	49
C 51 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	463.5	53
C 51 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	463.5	53

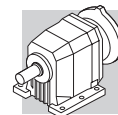


C 51...SK / SC



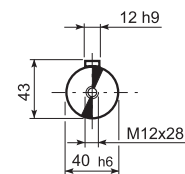
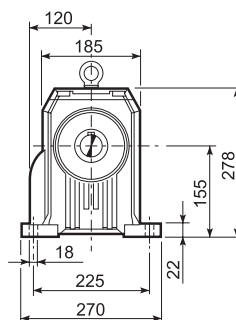
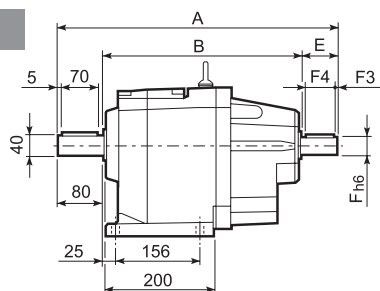
		D	M	M1	M2	N	N1	N2	N4	X	$\frac{2}{3}x$	$\frac{4}{x}$	kg
C 51 2/3	SK80B	120	14	16.3	5	96	100	80	M6x12	4	382	—	46/46
C 51 2/3/4	SK80C	120	19	21.8	6	96	100	80	M6x12	4	382	453.5	47/47/49
C 51 2/3/4	SK95A	130	14	16.3	5	102	115	95	M8x12	4	382	453.5	46/46/48
C 51 2/3/4	SK95B	130	19	21.8	6	102	115	95	M8x12	4	382	453.5	47/47/49
C 51 2/3/4	SK95C	130	24	27.3	8	102	115	95	M8x12	4	382	453.5	47/47/49
C 51 2/3/4	SK110A	150	19	21.8	6	120	130	110	M8x12	5	382	453.5	47/47/51
C 51 2/3/4	SK110B	150	24	27.3	8	120	130	110	M8x12	5	382	453.5	47/47/51
C 51 2/3/4	SK130A	188	24	27.3	8	142	165	130	M10x20	5	382	453.5	49/49/52
C 51 2/3	SK130B	189	32	35.3	10	160	165	130	M10x20	5	428.5	—	55/55
C 51 2/3	SK180A	240	32	35.3	10	192	215	180	M12x19	5	428.5	—	55/55
C 51 2/3	SK180B	240	38	41.3	10	192	215	180	M12x19	5	428.5	—	55/55

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	$\frac{2}{3}x$	$\frac{4}{x}$	kg
C 51 2/3	SC80B	M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	405.5	—	47/47
C 51 2/3/4	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	405.5	477	48/48/50
C 51 2/3/4	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	405.5	477	47/47/49
C 51 2/3/4	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	405.5	477	48/48/50
C 51 2/3/4	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	405.5	477	48/48/50
C 51 2/3/4	SC110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	405.5	477	49/49/52
C 51 2/3/4	SC110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	405.5	477	49/49/52
C 51 2/3/4	SC130A	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	405.5	477	50/50/53
C 51 2/3	SC130B	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	451.5	—	54/54
C 51 2/3	SC180A	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	455.5	—	54/54
C 51 2/3	SC180B	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	455.5	—	54/54



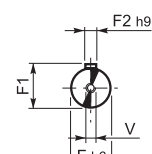
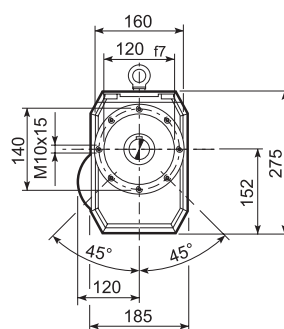
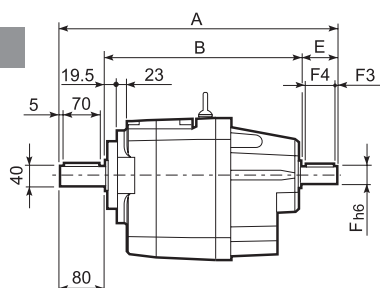
C 51...HS

P



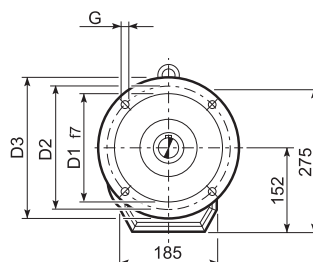
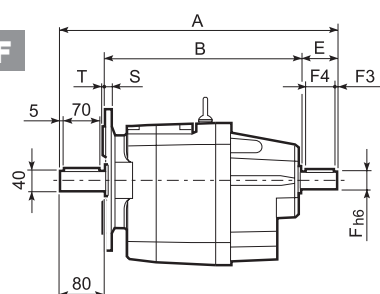
OUTPUT

U



INPUT

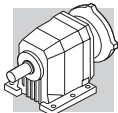
UF



C 51_U

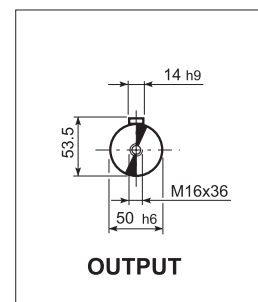
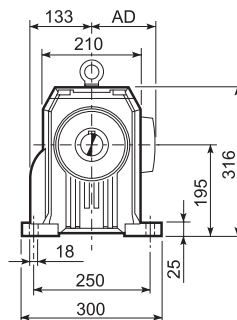
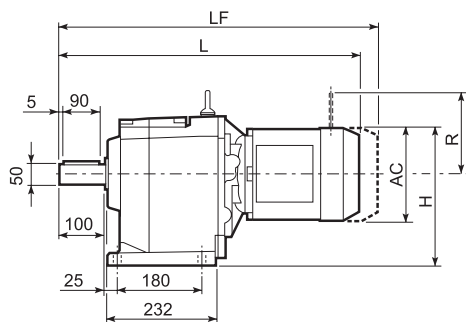
	D1	D2	D3	G	T	S
FA	180	215	250	14	4	13
FB	230	265	300	14	4	16

		A	B	E	F	F1	F2	F3	F4	V	Kg
C 51 2	HS	451.5	322	50	24	24	8	2.5	45	M8x19	45
C 51 3		451.5	322	50	24	24	8	2.5	45	M8x19	45
C 51 4		484	364	40	19	21.5	6	2.5	35	M6x16	48

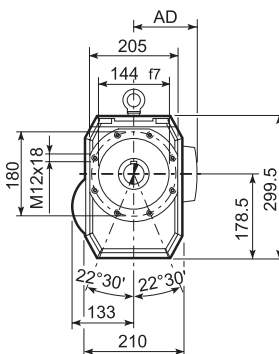
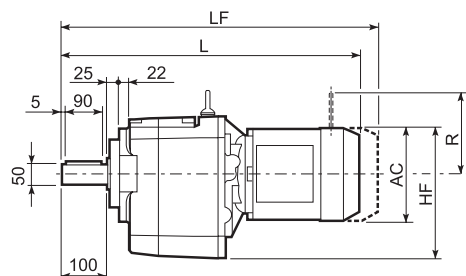


C 61...M

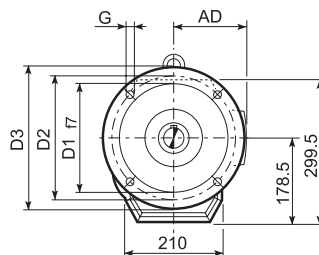
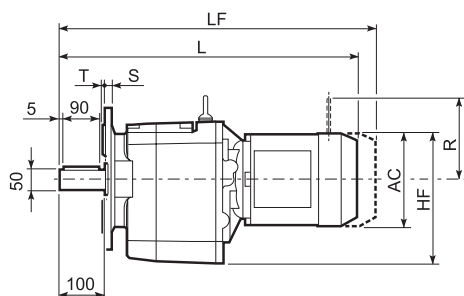
P



U



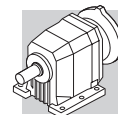
UF



C 61_U

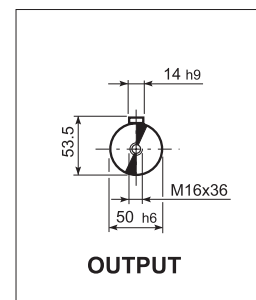
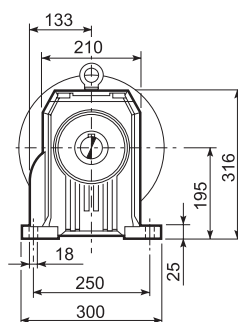
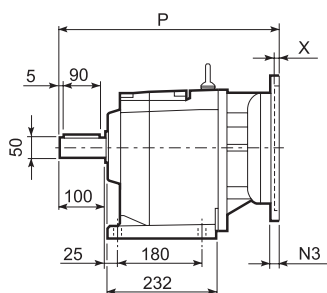
	D1	D2	D3	G	T	S
FA	230	265	300	14	4	16
FB	250	300	350	18	5	18

										M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD			LF		R	AD	R	AD
C 61 2/3	S2	M2S	156	273	256.5	598.5	119	61		669.5	65	129	146	134	119
C 61 2/3	S3	M3S	195	292.5	276	642.5	142	66		738.5	74	160	158	160	142
C 61 2/3	S3	M3L	195	292.5	276	674.5	142	74		765.5	81	160	158	160	142
C 61 2/3	S4	M4	258	324	307.5	782.5	193	108		891.5	126	226	210	217	193
C 61 2/3	S4	M4LC	258	324	307.5	817.5	193	116		916.5	134	226	210	217	193
C 61 2/3	S5	M5S	310	350	333.5	869	245	136		1009	166	266	245	247	245
C 61 2/3	S5	M5L	310	350	333.5	913	245	152		1053	182	266	245	247	245
C 61 4	S1	M1	138	264	247.5	641	108	71		702	74	103	135	124	108
C 61 4	S2	M2S	156	273	256.5	669	119	75		740	78	129	146	134	119
C 61 4	S3	M3S	195	292.5	276	713	142	79		809	87	160	158	160	142
C 61 4	S3	M3L	195	292.5	276	745	142	87		836	94	160	158	160	142

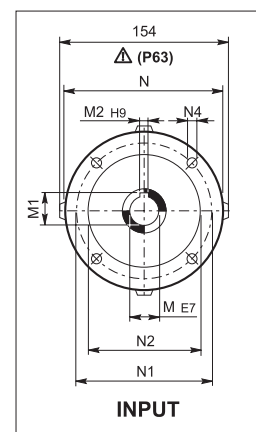
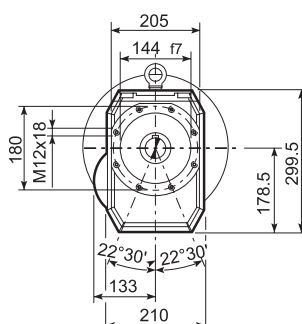
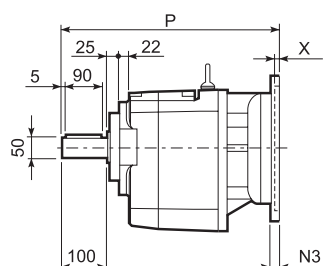


C 61...P(IEC)

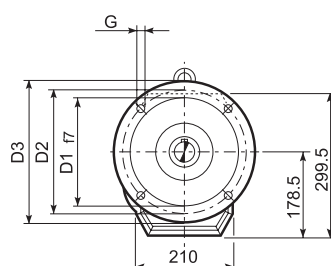
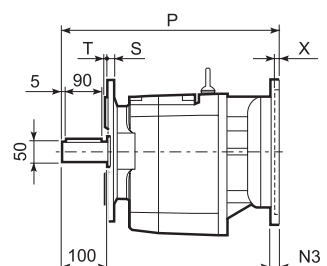
P



U



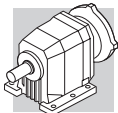
UF



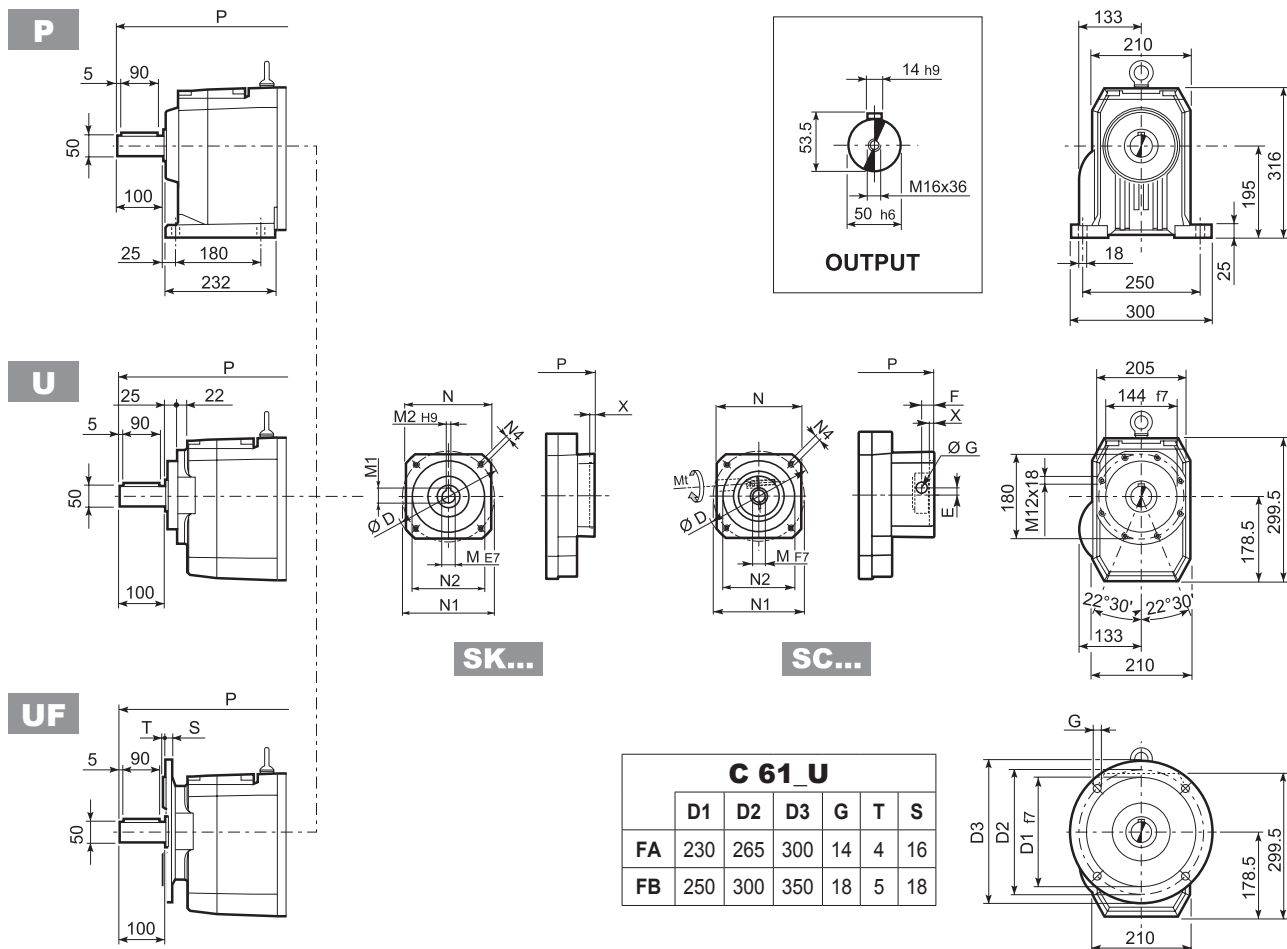
C 61_U

	D1	D2	D3	G	T	S
FA	230	265	300	14	4	16
FB	250	300	350	18	5	18

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 61 2/3	P63	11	12.8	4	140	115	95	—	M8x19	4	415.5	55
C 61 2/3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	415.5	57
C 61 2/3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	435	61
C 61 2/3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	435	61
C 61 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	444	65
C 61 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	444	65
C 61 2/3	P132	38	41.3	10	300	265	230	16	14	5	481.5	68
C 61 2/3	P160	42	45.3	12	350	300	250	23	18	5.5	532	73
C 61 2/3	P180	48	51.8	14	350	300	250	23	18	5.5	532	73
C 61 4	P63	11	12.8	4	140	115	95	—	M8x19	4	486	61
C 61 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	489	63
C 61 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	505.5	67
C 61 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	505.5	67
C 61 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	515.5	71
C 61 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	515.5	71

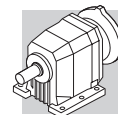


C 61...SK / SC



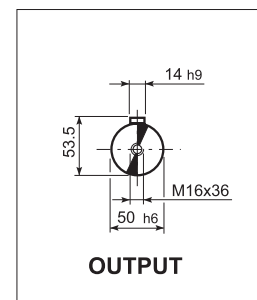
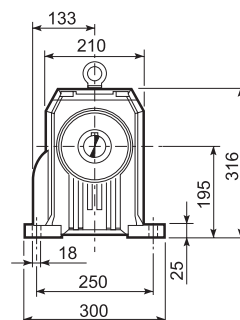
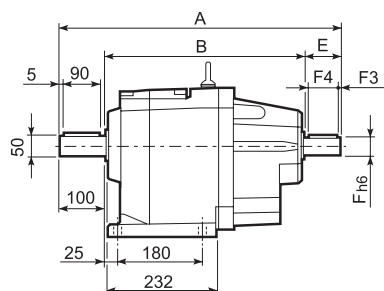
		D	M	M1	M2	N	N1	N2	N4	X	2/3x	4x	
C 61 4	SK80B	120	14	16.3	5	96	100	80	M6x12	4	—	505.5	62
C 61 2/3/4	SK80C	120	19	21.8	6	96	100	80	M6x12	4	435	505.5	63/63/69
C 61 2/3/4	SK95A	130	14	16.3	5	102	115	95	M8x12	4	435	505.5	60/60/67
C 61 2/3/4	SK95B	130	19	21.8	6	102	115	95	M8x12	4	435	505.5	63/63/69
C 61 2/3/4	SK95C	130	24	27.3	8	102	115	95	M8x12	4	435	505.5	63/63/69
C 61 2/3/4	SK110A	140	19	21.8	6	120	130	110	M8x12	5	435	505.5	63/63/69
C 61 2/3/4	SK110B	140	24	27.3	8	120	130	110	M8x12	5	435	505.5	63/63/69
C 61 2/3/4	SK130A	188	24	27.3	8	142	165	130	M10x20	5	435	505.5	67/67/80
C 61 2/3	SK130B	189	32	35.3	10	160	165	130	M10x20	5	481.5	—	72/72
C 61 2/3	SK180A	240	32	35.3	10	192	215	180	M12x19	5	481.5	—	72/72
C 61 2/3	SK180B	240	38	41.3	10	192	215	180	M12x19	5	481.5	—	66/66

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2/3x	4x	
C 61 4	SC80B	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	—	529	63
C 61 2/3/4	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	458.5	529	64/64/70
C 61 2/3/4	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	458.5	529	61/61/68
C 61 2/3/4	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	458.5	529	64/64/70
C 61 2/3/4	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	458.5	529	64/64/70
C 61 2/3/4	SC110A	M6	15	140	16.5	16	17.75	19	120	130	110	M8x16	5	458.5	529	65/65/70
C 61 2/3/4	SC110B	M6	15	140	16.5	16	17.75	24	120	130	110	M8x16	5	458.5	529	65/65/70
C 61 2/3/4	SC130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	458.5	529	66/66/81
C 61 2/3	SC130B	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	504.5	—	75/75
C 61 2/3	SC180A	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	508.5	—	75/75
C 61 2/3	SC180B	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	508.5	—	69/69



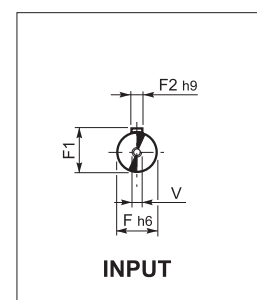
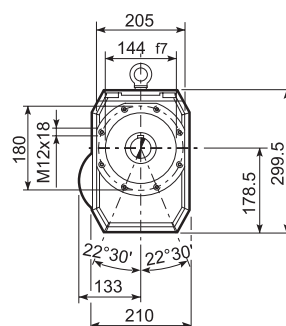
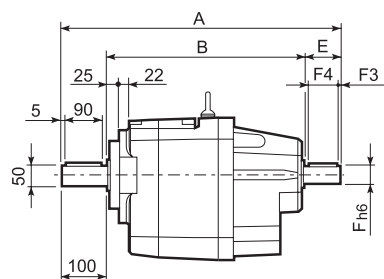
C 61...HS

P



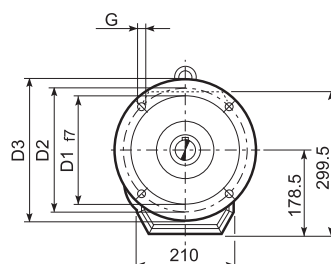
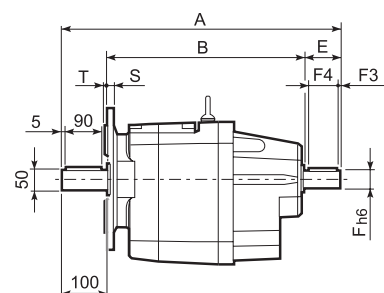
OUTPUT

U



INPUT

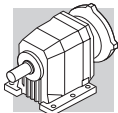
UF



C 61_U

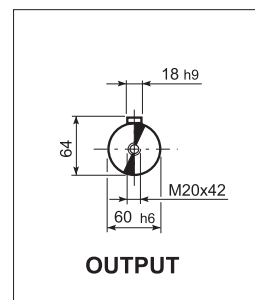
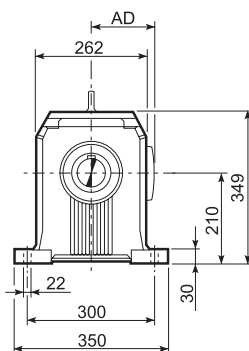
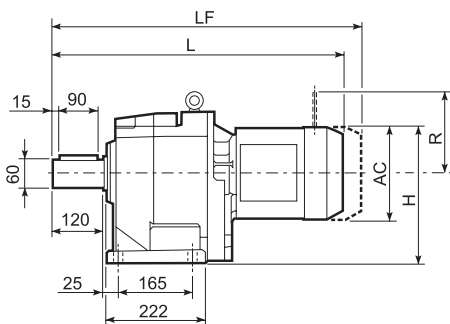
	D1	D2	D3	G	T	S
FA	230	265	300	14	4	16
FB	250	300	350	18	5	18

		A	B	E	F	F1	F2	F3	F4	V	kg
C 61 2	HS	532	372	60	28	31	8	5	50	M10x22	66
C 61 3		532	372	60	28	31	8	5	50	M10x22	66
C 61 4		575	425	50	24	27	8	2.5	45	M8x19	72

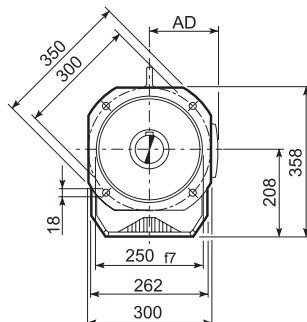
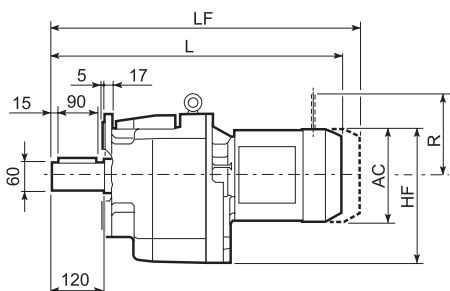


C 70...M

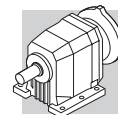
P



F

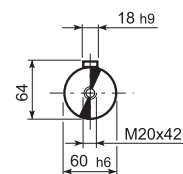
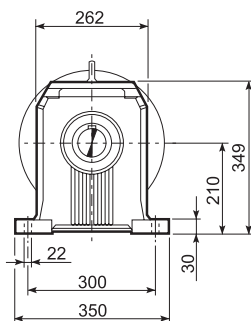
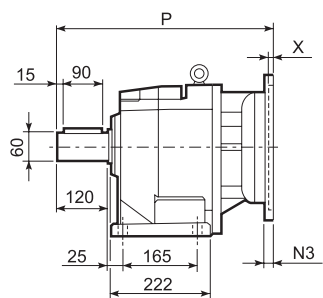


										M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD	Kg		LF	Kg	R	AD	R	AD
C 70 2/3	S2	M2S	156	288	286	636.5	119	88		707.5	92	129	146	134	119
C 70 2/3	S3	M3S	195	307.5	305.5	680.5	142	93		776.5	101	160	158	160	142
C 70 2/3	S3	M3L	195	307.5	305.5	712.5	142	101		803.5	108	160	158	160	142
C 70 2/3	S4	M4	258	339	337	820.5	193	135		929.5	153	226	210	217	193
C 70 2/3	S4	M4LC	258	339	337	855.5	193	143		954.5	161	226	210	217	193
C 70 2/3	S5	M5S	310	365	363	907	245	163		1047	193	266	245	247	245
C 70 2/3	S5	M5L	310	365	363	951	245	179		1091	209	266	245	247	245
C 70 4	S1	M1	138	279	277	659.5	108	88		720.5	91	103	135	124	108
C 70 4	S2	M2S	156	288	286	687.5	119	92		758.5	96	129	146	134	119
C 70 4	S3	M3S	195	307.5	305.5	731.5	142	97		827.5	104	160	158	160	142
C 70 4	S3	M3L	195	307.5	305.5	763.5	142	104		854.5	111	160	158	160	142
C 70 4	S4	M4	258	339	337	871.5	193	138		980.5	156	226	210	217	193
C 70 4	S4	M4LC	258	339	337	906.5	193	146		1005.5	164	226	210	217	193



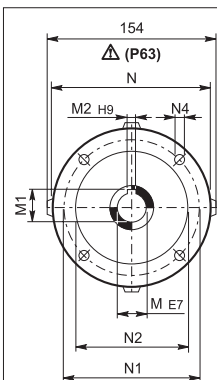
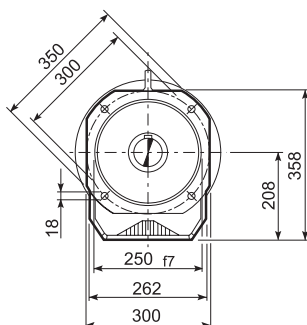
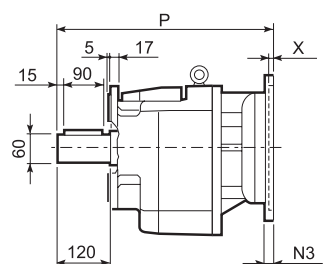
C 70...P(IEC)

P



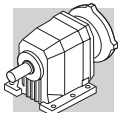
OUTPUT

F



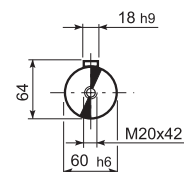
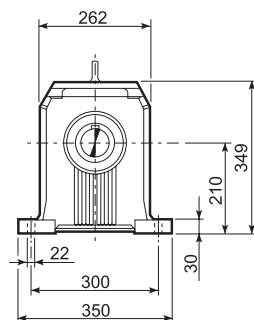
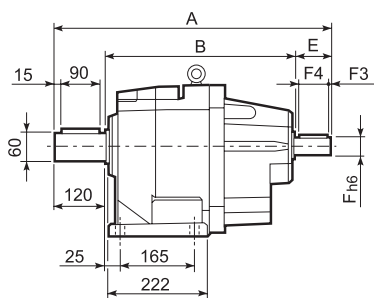
INPUT

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 70 2/3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	473	88
C 70 2/3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	473	88
C 70 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	483	92
C 70 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	483	92
C 70 2/3	P132	38	41.3	10	300	265	230	16	14	5	519.5	95
C 70 2/3	P160	42	45.3	12	350	300	250	23	18	6	575	107
C 70 2/3	P180	48	51.8	14	350	300	250	23	18	6	575	107
C 70 2	P200	55	59.3	16	400	350	300	—	M16x25	7	600	129
C 70 4	P63	11	12.8	4	140	115	95	—	M8x19	4	504.5	91
C 70 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	504.5	91
C 70 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	524	92
C 70 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	524	92
C 70 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	534	96
C 70 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	534	96
C 70 4	P132	38	41.3	10	300	265	230	16	14	5	570.5	98



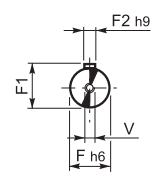
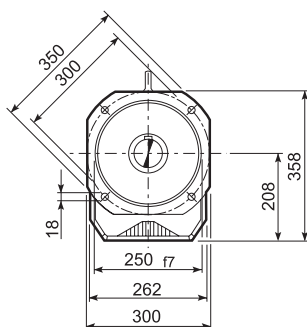
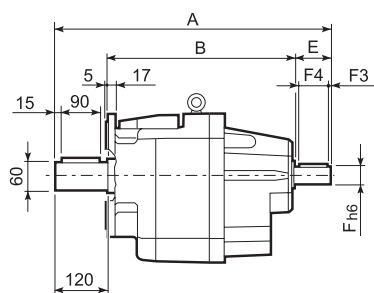
C 70...HS

P



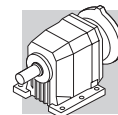
OUTPUT

F



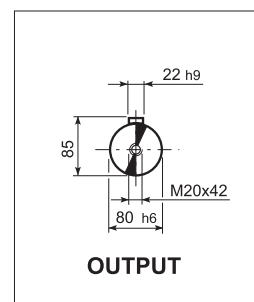
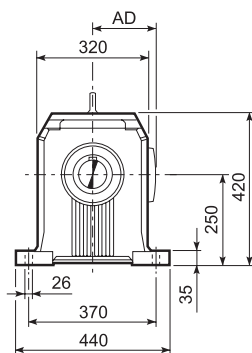
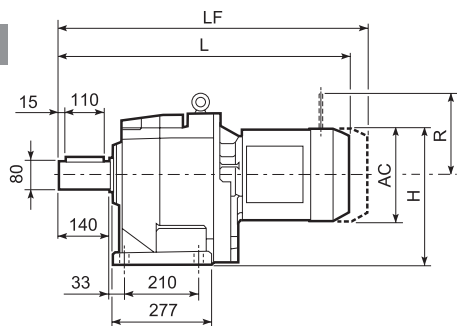
INPUT

		A	B	E	F	F1	F2	F3	F4	V	kg
C 70 2	HS	657.5	427.5	110	42	45	12	10	90	M12x28	108
C 70 3		657.5	427.5	110	42	45	12	10	90	M12x28	108
C 70 4		593.5	423.5	50	24	27	8	2.5	45	M8x19	94

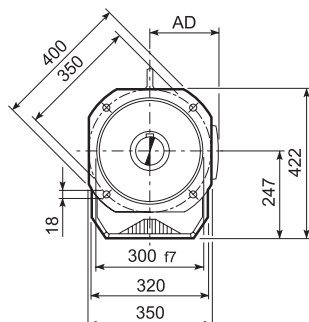
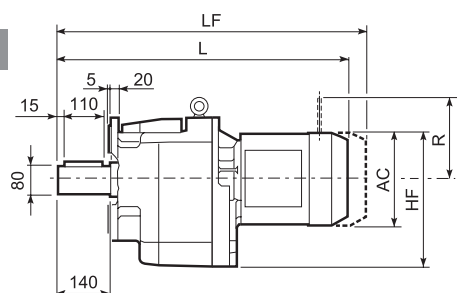


C 80...M

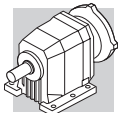
P



F

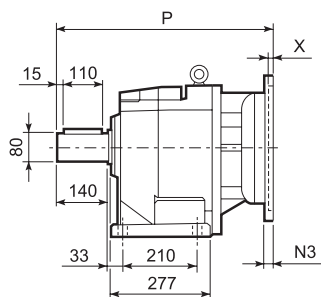


									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD		LF		R	AD	R	AD
C 80 2/3	S3	M3S	195	347.5	344.5	742.5	142	139	838.5	146	160	158	160	142
C 80 2/3	S3	M3L	195	347.5	344.5	774.5	142	146	865.5	153	160	158	160	142
C 80 2/3	S4	M4	258	379	376	882.5	193	180	991.5	196	226	210	217	193
C 80 2/3	S4	M4LC	258	379	376	917.5	193	188	1016.5	204	226	210	217	193
C 80 2/3	S5	M5S	310	405	402	969	245	208	1109	238	266	245	247	245
C 80 2/3	S5	M5L	310	405	402	1013	245	224	1153	254	266	245	247	245
C 80 4	S1	M1	138	319	316	733.5	108	133	794.5	136	103	135	124	108
C 80 4	S2	M2S	156	328	325	761.5	119	137	832.5	141	129	146	134	119
C 80 4	S3	M3S	195	347.5	344.5	805.5	142	142	901.5	149	160	158	160	142
C 80 4	S3	M3L	195	347.5	344.5	837.5	142	149	928.5	156	160	158	160	142
C 80 4	S4	M4	258	379	376	945.5	193	183	1054.5	201	226	210	217	193
C 80 4	S4	M4LC	258	379	376	980.5	193	191	1079.5	209	226	210	217	193

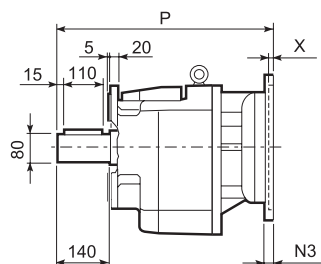


C 80...P(IEC)

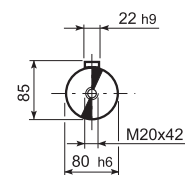
P



F

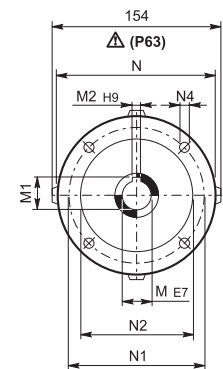


OUTPUT



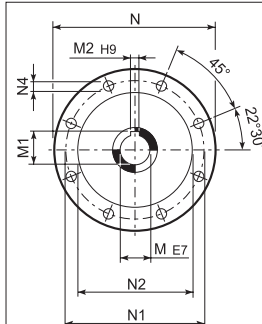
INPUT

P63...P200

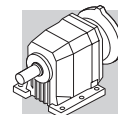


INPUT

P225

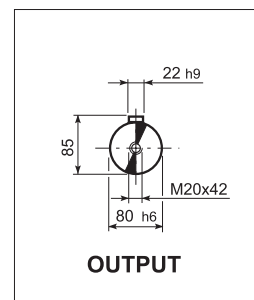
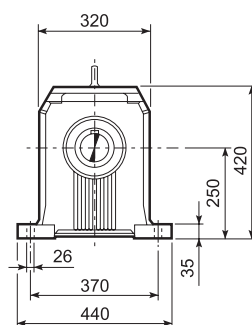
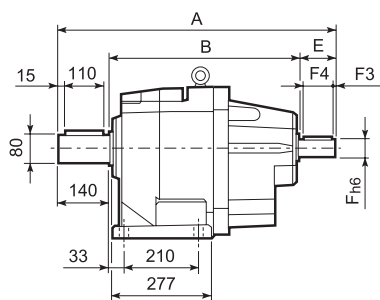


		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 80 2/3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	533	135
C 80 2/3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	533	135
C 80 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	543	139
C 80 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	543	139
C 80 2/3	P132	38	41.3	10	300	265	230	16	14	5	579.5	141
C 80 2/3	P160	42	45.3	12	350	300	250	23	18	6	635	154
C 80 2/3	P180	48	51.8	14	350	300	250	23	18	6	635	154
C 80 2	P200	55	59.3	16	400	350	300	—	M16x25	7	660	176
C 80 2	P225	60	64.4	18	450	400	350	25	18	6	705.5	178
C 80 4	P63	11	12.8	4	140	115	95	—	M8x19	4	576.5	138
C 80 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	576.5	138
C 80 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	596	140
C 80 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	596	140
C 80 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	606	144
C 80 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	606	144
C 80 4	P132	38	41.3	10	300	265	230	16	M12x16	5	642.5	146



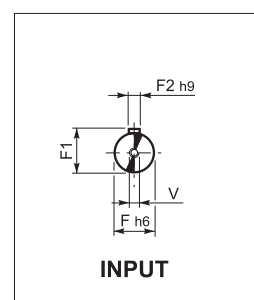
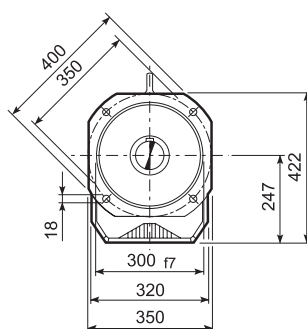
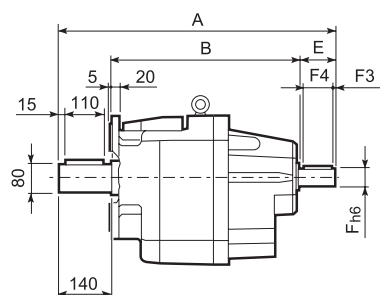
C 80...HS

P



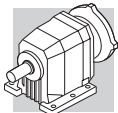
OUTPUT

F



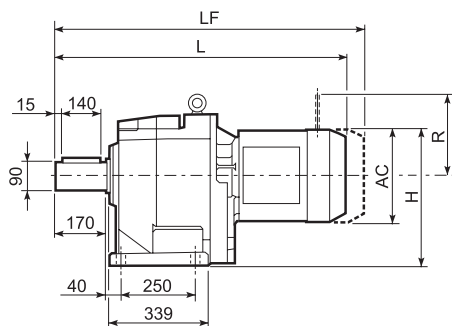
INPUT

		A	B	E	F	F1	F2	F3	F4	V	Kg
C 80 2	HS	718.5	468.5	110	42	45	12	10	90	M12x28	154
C 80 3		718.5	468.5	110	42	45	12	10	90	M12x28	154
C 80 4		666.5	476.5	50	24	27	8	2.5	45	M8x19	141

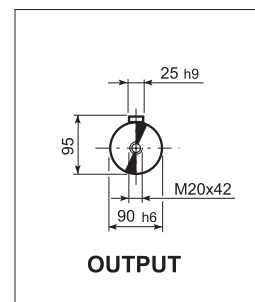
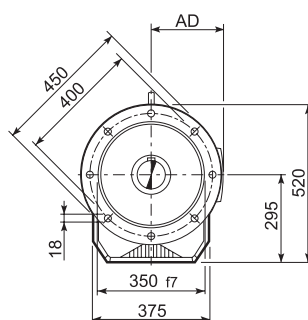
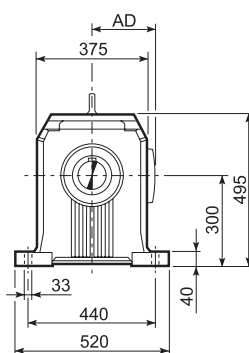
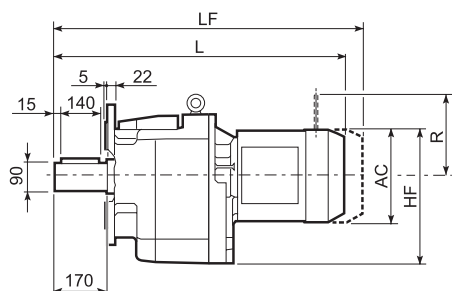


C 90...M

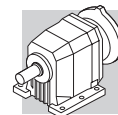
P



F

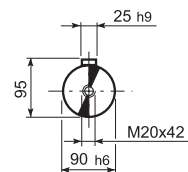
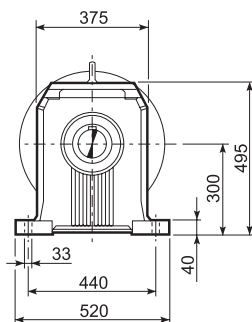
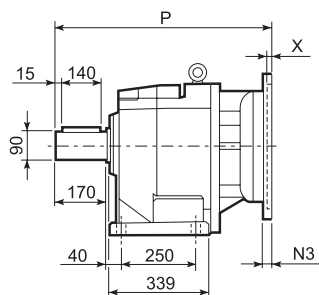


									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD		LF		R	AD	R	AD
C 90 2/3	S3	M3S	195	397.5	392.5	852	142	228	948	236	160	158	160	142
C 90 2/3	S3	M3L	195	397.5	392.5	884	142	236	975	243	160	158	160	142
C 90 2/3	S4	M4	258	429	424	992	193	270	1101	288	226	210	217	193
C 90 2/3	S4	M4LC	258	429	424	1027	193	278	1126	296	226	210	217	193
C 90 2/3	S5	M5S	310	455	450	1078.5	245	298	1218.5	328	266	245	247	245
C 90 2/3	S5	M5L	310	455	450	1122.5	245	314	1262.5	344	266	245	247	245
C 90 4	S1	M1	138	369	364	862	108	226	923	228	103	135	124	108
C 90 4	S2	M2S	156	378	373	891	119	234	962	238	129	146	134	119
C 90 4	S3	M3S	195	397.5	392.5	935	142	239	1031	246	160	158	160	142
C 90 4	S3	M3L	195	397.5	392.5	967	142	246	1058	253	160	158	160	142
C 90 4	S4	M4	258	429	424	1075	193	280	1184	298	226	210	217	193
C 90 4	S4	M4LC	258	429	424	1126.5	193	288	1209	306	226	210	217	193



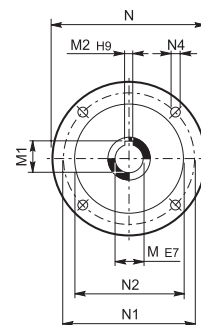
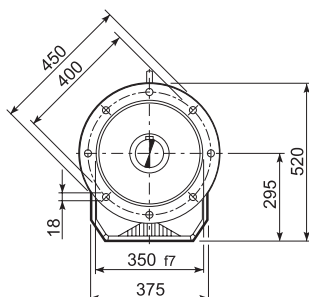
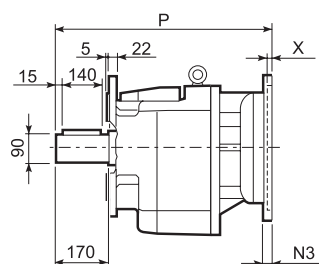
C 90...P(IEC)

P

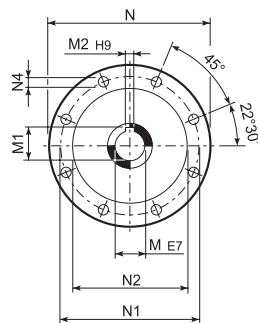


OUTPUT

F

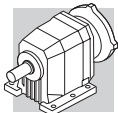


**INPUT
P71...P200**



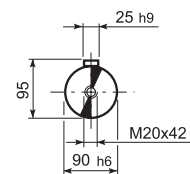
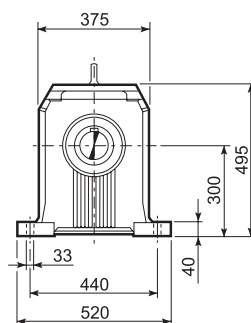
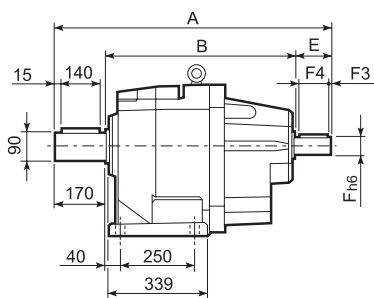
**INPUT
P225...P250**

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 90 2/3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	644.5	229
C 90 2/3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	644.5	229
C 90 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	654.5	234
C 90 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	654.5	234
C 90 2/3	P132	38	41.3	10	300	265	230	16	14	5	691	236
C 90 2/3	P160	42	45.3	12	350	300	250	23	18	6	746.5	251
C 90 2/3	P180	48	51.8	14	350	300	250	23	18	6	746.5	251
C 90 2/3	P200	55	59.3	16	400	350	300	—	M16x25	7	771.5	272
C 90 2/3	P225	60	64.4	18	450	400	350	30	18	6	817	273
C 90 2/3	P250	65	69.4	18	550	500	450	30	18	6	847	295
C 90 4	P63	11	12.8	4	140	115	95	—	M8x19	4	707.5	236
C 90 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	707.5	236
C 90 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	727	238
C 90 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	727	238
C 90 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	737	242
C 90 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	737	242
C 90 4	P132	38	41.3	10	300	265	230	16	14	5	773.5	244
C 90 4	P160	42	45.3	12	350	300	250	23	18	5.5	824	248
C 90 4	P180	48	51.8	14	350	300	250	23	18	5.5	824	248



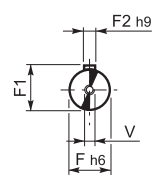
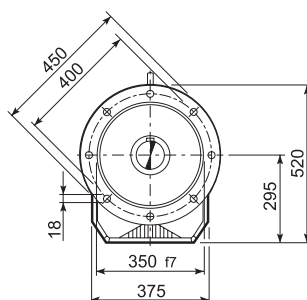
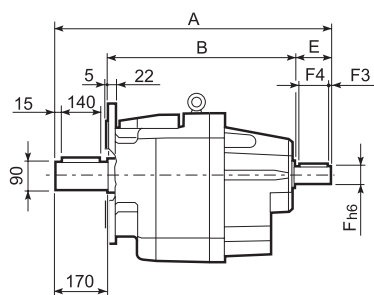
C 90...HS

P



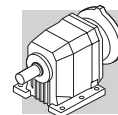
OUTPUT

F



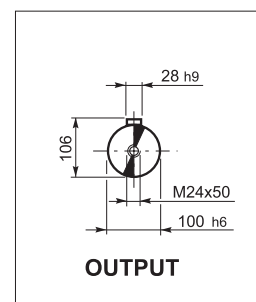
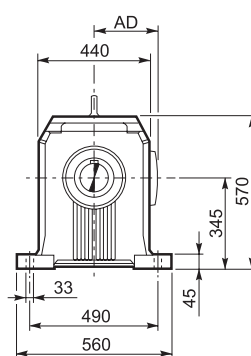
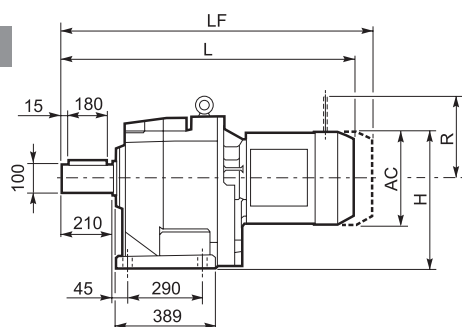
INPUT

		A	B	E	F	F1	F2	F3	F4	V	kg
C 90 2	HS	930.5	620.5	140	60	64	18	10	120	M16x36	273
C 90 3		930.5	620.5	140	60	64	18	10	120	M16x36	273
C 90 4		797	577	50	24	27	8	2.5	45	M8x19	240

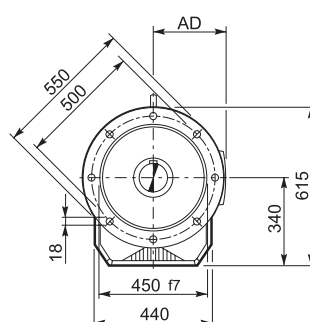
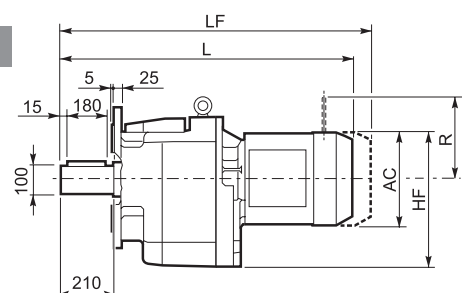


C 100...M

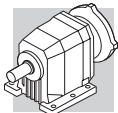
P



F

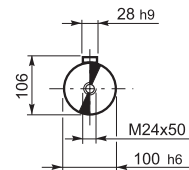
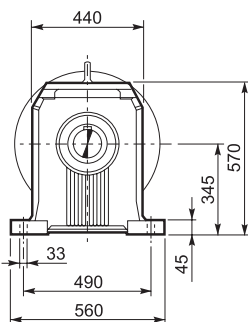
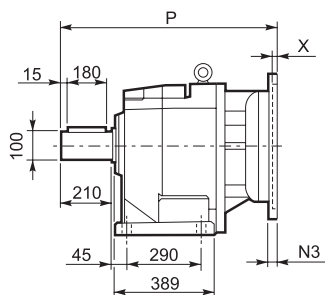


									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD		LF		R	AD	R	AD
C 100 2/3	S4	M4	258	474	469	1087	193	392	1196	410	226	210	217	193
C 100 2/3	S4	M4LC	258	474	469	1122	193	400	1221	418	226	210	217	193
C 100 2/3	S5	M5S	310	500	495	1173.5	245	420	1313.5	450	266	245	247	245
C 100 2/3	S5	M5L	310	500	495	1217.5	245	436	1357.5	466	266	245	247	245
C 100 4	S1	M1	138	414	409	956.5	108	346	1027.5	348	103	135	124	108
C 100 4	S2	M2S	156	423	418	985.5	119	354	1056.5	357	129	146	134	119
C 100 4	S3	M3S	195	442.5	437.5	1029.5	142	358	1125.5	366	160	158	160	142
C 100 4	S3	M3L	195	442.5	437.5	1061.5	142	366	1152.5	373	160	158	160	142
C 100 4	S4	M4	258	474	469	1169.5	193	400	1278.5	418	226	210	217	193
C 100 4	S4	M4LC	258	474	469	1204.5	245	408	1303.5	426	226	210	217	193



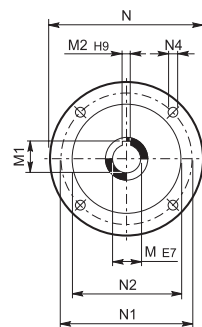
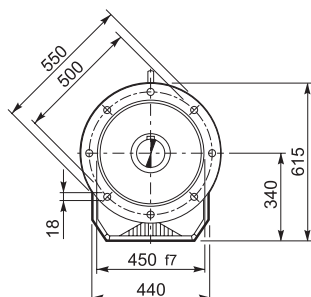
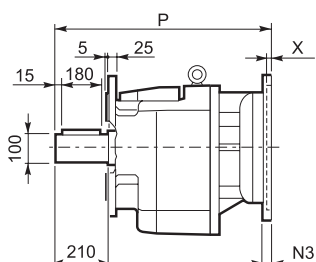
C 100...P(IEC)

P

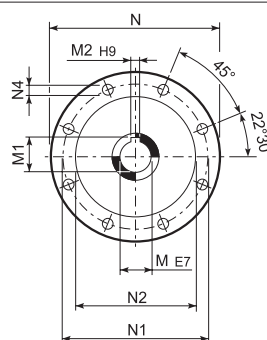


OUTPUT

F

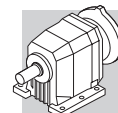


**INPUT
P80...P200**



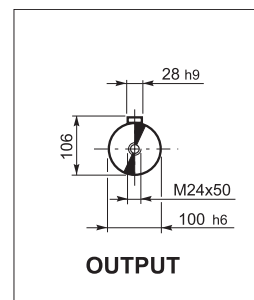
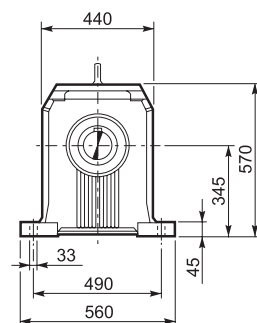
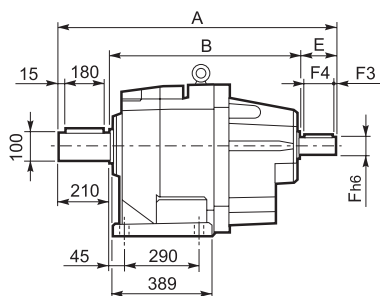
**INPUT
P225...P280**

		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
C 100 2/3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	749.5	364
C 100 2/3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	749.5	364
C 100 2/3	P132	38	41.3	10	300	265	230	16	14	5	786	367
C 100 2/3	P160	42	45.3	12	350	300	250	23	18	6	841.5	382
C 100 2/3	P180	48	51.8	14	350	300	250	23	18	6	841.5	382
C 100 2/3	P200	55	59.3	16	400	350	300	—	M16x25	7	866.5	403
C 100 2/3	P225	60	64.4	18	450	400	350	30	18	7	912	403
C 100 2/3	P250	65	69.4	18	550	500	450	30	18	7	942	426
C 100 2/3	P280	75	79.9	20	550	500	450	30	18	6	942	426
C 100 4	P63	11	12.8	4	140	115	95	—	M8x19	4	803	369
C 100 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	803	369
C 100 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	822.5	371
C 100 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	822.5	371
C 100 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	832.5	375
C 100 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	832.5	375
C 100 4	P132	38	41.3	10	300	265	230	16	14	5	869	377
C 100 4	P160	42	45.3	12	350	300	250	23	18	5.5	919.5	381
C 100 4	P180	48	51.8	14	350	300	250	23	18	5.5	919.5	381

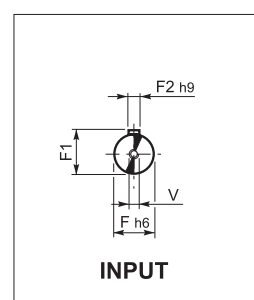
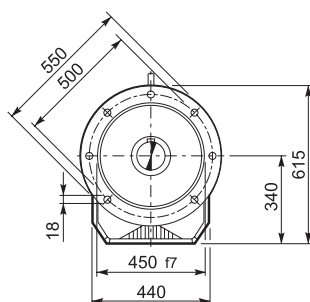
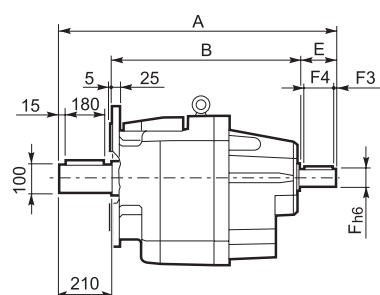


C 100...HS

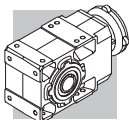
P



F



		A	B	E	F	F1	F2	F3	F4	V	kg
C 100 2	HS	1025.5	676	140	60	64	18	10	120	M16x36	409
C 100 3		1025.5	676	140	60	64	18	10	120	M16x36	409
C 100 4		892	632	50	24	27	8	2.5	45	M8x19	372



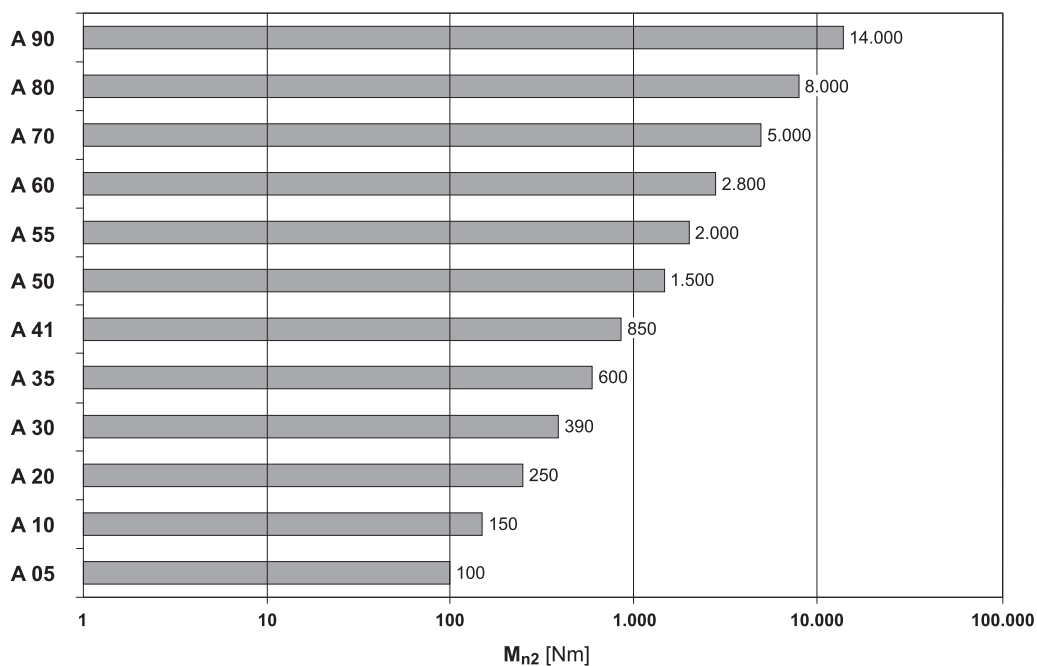
REDUCTORES ORTOGONALES SERIE A

31 CARACTERISTICAS DE DISEÑO

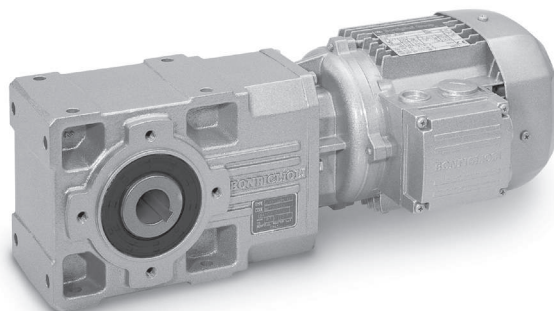
Las principales características de diseño son:

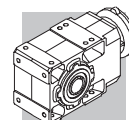
- modularidad
- diseño compacto
- montajes universales
- rendimientos elevados
- bajo nivel de rumorosidad
- engranajes de acero aleado, cementados y templados
- cajas de aluminio sin pintar en los tamaños 05, 10, 20, 30 y de fundición de alta resistencia, pintadas, para el resto de tamaños
- ejes de entrada y salida de acero de alta resistencia.

(C 26)

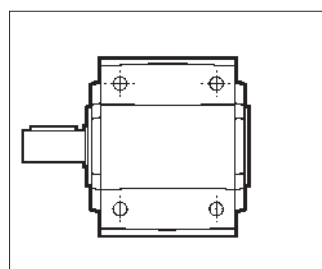


* Para las posibles limitaciones relativas a la forma constructiva QF ver el capítulo "FORMAS CONSTRUTIVAS".





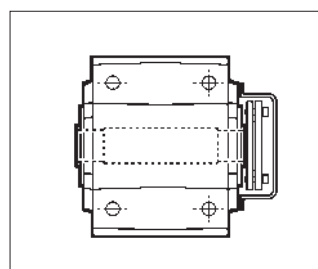
32 FORMAS CONSTRUCTIVAS



UR

Eje de salida simple

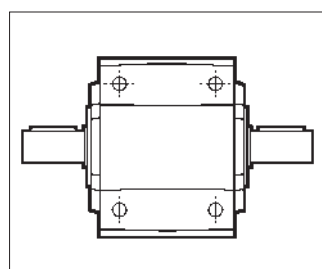
A 05 ... A 90



US

Eje de salida hueco con aro de apriete

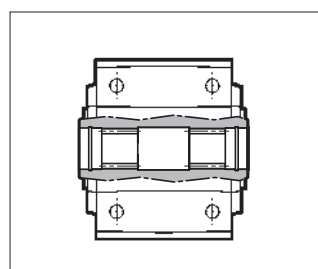
A 05 ... A 90



UD

Eje de salida doble

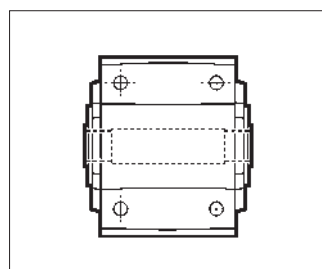
A 05 ... A 90



UV

Eje de salida estriado DIN 5480

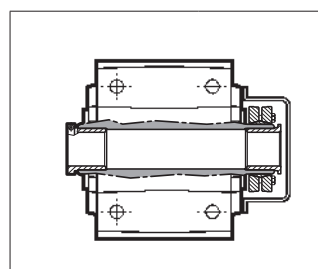
A 20 ... A 60



UH

Eje de salida hueco con chavetero

A 05 ... A 90



QF (Quick-fit)

Eje hueco con casquillo de adaptación y aro de apriete

A 10 ... A 60

$M_{n2 \max}$ [Nm]	
A 35 QF35	550
A 55 QF55	1900

Formas constructivas con brida postiza

Los esquemas muestran las distintas bridas aplicables a la forma constructiva base, y su correspondiente posicionamiento (①, ②).

UR F1...

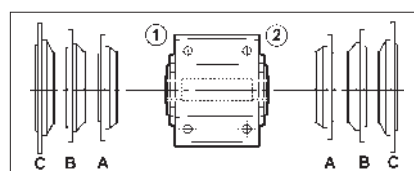
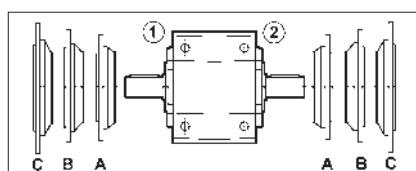
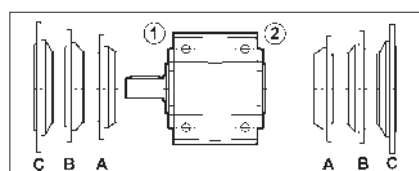
UR F2...

UD F1...

UD F2...

UH... F1...

UH... F2...



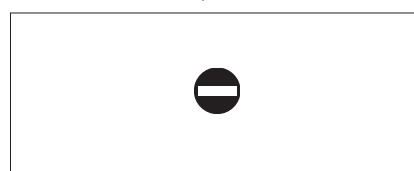
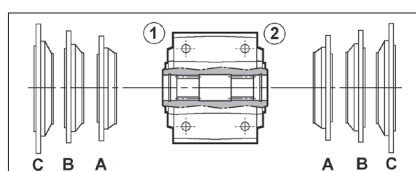
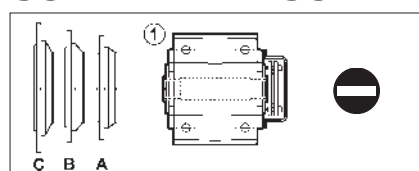
US F1...

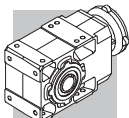
US F2...

UV F1...

UV F2...

QF...





33 DESIGNACIÓN

REDUCTOR

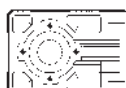
A 35 2 UH40 F1A 33.2 S3 VA

OPCIONES

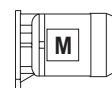
POSICIÓN DE MONTAJE

B3 (estandar), **B6, B7, B8, VA, VB**

DESIGNACION DE LA ENTRADA

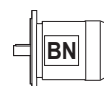


S05 ... S5



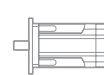
IEC_

P63 ... P250



SK_

SC_



HS

RELACIÓN DE REDUCCIÓN

TAMAÑO Y POSICION DE LA BRIDA DE SALIDA

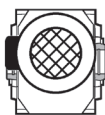
(especificar solamente si se precisa)

F = Versión embrizada

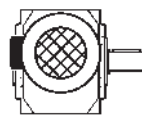
1, 2 = Posición de la brida

A, B, C = Tamaño de la brida

FORMA CONSTRUCTIVA

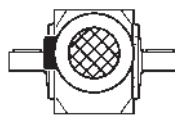


UH_



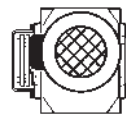
UR

(A 05...A 90)



UD

(A 05...A 90)



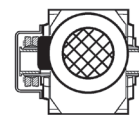
US

(A 05...A 90)



UV

(A 20...A 60)



QF

(A 10...A 60)

A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 55	A 60	A 70	A 80	A 90
UH25	UH25	UH30	UH35	UH40	UH45	UH50	UH60	UH60	UH70	UH80	UH90
—	UH30	UH35	UH40	UH35	UH40	UH55	UH50	UH70	UH80	UH90	UH100

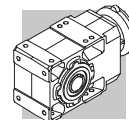
Nº DE ETAPAS DE REDUCCIÓN

2 (A 05...A 60), **3** (A 20...A 90), **4** (A 50...A 90)

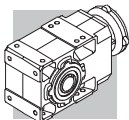
TAMAÑO REDUCTOR

05, 10, 20, 30, 35, 41, 50, 55, 60, 70, 80, 90

TIPO: **A** = Reductores ortogonales



MOTOR					FRENO				
M	1LA 4	230/400-50	IP54	CLF	W	FD	7.5	R	SB 220 SA
									OPCIONES
									ALIMENTACIÓN FRENO
									TIPO RECTIFICADOR AC/DC NB, SB, NBR, SBR
									PALANCA DESBLOQUEO FRENO R, RM
									PAR DE FRENADO
									TIPO DE FRENO FD (freno c.c.) FA (freno c.a.)
									POSICIÓN CAJA DE BORNES W (por defecto), N, E, S
									FORMA CONSTRUCTIVA — (motor integrado) B5 (motor IEC)
									CLASE DE AISLAMIENTO CL F estandar CL H opción
									GRADO DE PROTECCIÓN IP55 estandar (IP54 - en motor con freno)
									TENSIÓN - FRECUENCIA
									NUMERO DE POLOS 2, 4, 6, 2/4, 2/6, 2/8, 2/12, 4/6, 4/8
									TAMAÑO MOTOR 0B ... 5LA (motor integrado) 63A ... 250MA (motor IEC)
									TIPO MOTOR M = trifásico integrado BN = trifásico IEC



33.1 Opciones reductor

LUBRICACIÓN

Los reductores A05, A10, A20, A30, A35 y A41 se llenan normalmente de fábrica con aceite en la versión estándar. Los reductores A50, A55, A60, A70, A80 y A90, normalmente se suministran sin lubricar en la versión estándar.

Sin embargo, para todos los tamaños de reductores llenados de fábrica con aceite, es posible solicitar el suministro con más tipos de aceite, seleccionables según lo definido en la siguiente tabla.

La opción no está disponible para los reductores A50, A55, A60, A70, A80 y A90 en las posiciones de montaje B6 y B7.

La opción no está disponible para el reductor A602 en la posición de montaje VB.

LUBRICACIÓN	Tipo	Designacion	Productor
LU ^[1]	Polialfaolefina (PAO)	OMALA S4 GX 150	
LY ^[1]	Polialfaolefina (PAO)	OMALA S4 GX 220	
LV ^[1]	Polialfaolefina (PAO)	OMALA S4 GX 320	
LW ^[1]	Polialfaolefina (PAO)	OMALA S4 GX 460	
LH	Poliglicol (PAG)	OMALA S4 WE 150	
LS	Poliglicol (PAG)	OMALA S4 WE 220	
LO*	Poliglicol (PAG)	OMALA S4 WE 320	
LK	Poliglicol (PAG)	OMALA S4 WE 460	
LN ^{[1] [2]}	Base Mineral EP	OMALA S2 G 150	
LZ ^{[1] [2]}	Base Mineral EP	OMALA S2 G 220	
LI ^{[1] [2]}	Base Mineral EP	OMALA S2 G 320	
LJ ^{[1] [2]}	Base Mineral EP	OMALA S2 G 460	
LA	Uso alimentario	KLUBERSYNTH UH1 6-150	
LB	Uso alimentario	KLUBERSYNTH UH1 6-220	
LC	Uso alimentario	KLUBERSYNTH UH1 6-320	
LD	Uso alimentario	KLUBERSYNTH UH1 6-460	

* Salvo indicación contraria, los reductores A05, A10, A20 y A30, A35 y A41 suministrados con carga de lubricante utilizan aceite OMALA S4 WE 320.

[1] Uso no permitido para reductores A 05...A 60.

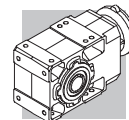
[2] Se permite el uso de aceite mineral en motorreductores con factor de servicio $f_s \geq 1,30$.

SO

Los reductores A05, A10, A20, A30, A35 y A41 que normalmente son suministrados con lubricante por parte de BONFIGLIOLI RIDUTTORI, en este caso se suministran sin lubricante.

DV

Dos retenes en el eje de entrada. (Disponible únicamente en los motorreductores compactos).



VV

Reten de fluoro-elastómero en el eje rápido.

PV

Todos los retenes de fluoro-elastómero.

TKL

Para los reductores de tamaño A70 a 90, a utilizar en ambientes caracterizados por la presencia de polvos abrasivos, esta disponible para el eje de salida, retenes de tipo Taconite constituidos por la combinación de retenes laberínticos y cámara de grasa. La presencia de la grasa debe garantizarse mediante operaciones de mantenimiento periódicas. La opción prevé reten de fluoro-elastómero en todos los ejes.

Para la posición de montaje B6 consultar con nuestro Servicio Técnico.

AL, AR

Bajo pedido se puede suministrar el reductor/motorreductor provisto de un dispositivo antirretorno que permite el giro del eje de salida solamente en el sentido deseado. La tabla siguiente indica los reductores a los que es posible aplicar el dispositivo Antirretorno. El dispositivo Antirretorno excluye la opción RB.

(C 27)

A 30 2*	A 35 2* ⊖ (5.4_11.8)	A 41 2 ⊖ (5.2; 10.1)	A 50 3	A 55 3	A 60 3	A 70 3	A 80 3	A 90 3
			A 50 4	A 55 4	A 60 4	A 70 4	A 80 4	A 90 4

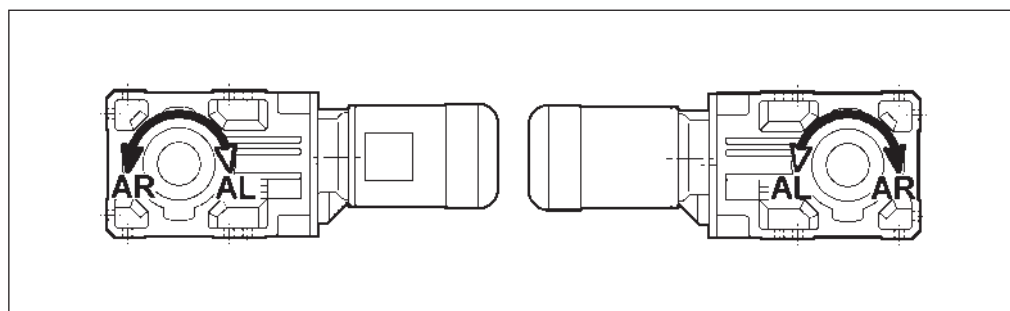
* El suministro del dispositivo antirretorno no incluye las bridas para servomotores del tipo S_60A, S_60B, S_80A.

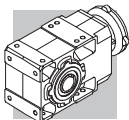
Al efectuar el pedido deberá especificarse el sentido de rotación mediante la opción AL o AR (tabla C27) en la designación del reductor o en la del motor.



N.B. Cuando la intervención del dispositivo antirretorno sea solicitado de forma repetitiva, verificar que el par en el eje de salida resultante de la aplicación de la carga no supere el 70 % del par nominal M_{n2} del reductor.

(C 28)





HDB

Para aplicaciones con cargas radiales especialmente altas, para las cuales la capacidad de carga radial en ejecución estándar no es suficiente, algunos reductores pueden ser solicitados con capacidad de carga radial más alta especificando en el pedido la opción HDB. Esta opción está disponible para reductores del ta año A 10 al A 50, ya sea con eje de salida macho cilíndrico simple o doble.

La carga soportable de los grupos en ejecución reforzada se detallan en la siguiente tabla. Los valores se refieren a la aplicación de fuerza sobre la mitad del eje de salida.

(C 29)

HDB	R_{N2}					
	A 10	A 20	A 30	A 35	A 41	A 50
$n_1 = 2800$	5500 N	6200 N	9600 N	12000 N	15000 N	20000 N
			8970 N @ $i=5.4$	10200 N @ $i=5.4$ 10600 N @ $i=6.4$ 11000 N @ $i=7.0$	11500 N @ $i=5.2$ 12700 N @ $i=7.1$ 13300 N @ $i=8.3$ 13700 N @ $i=9.2$	19000 N @ $i=7.7$
$n_1 = 1400$	5500 N	6200 N	9600 N	12000 N	15000 N	20000 N
$n_1 = 900$	5500 N	6200 N	9600 N	12000 N	15000 N	20000 N
$n_1 = 500$	5500 N	6200 N	9600 N	12000 N	15000 N	20000 N

Los rodamientos de tipo reforzado permiten también la aplicación de un porcentaje mayor de carga axial, en concreto:

$$A_{N2} = 0.35 \times R_{N2} \quad (24)$$

En ausencia de cargas radiales, la carga axial aplicable es:

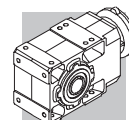
$$A_{N2} = 0.70 \times R_{N2} \quad (25)$$

En el caso de fuerzas aplicadas al mismo tiempo sobre ambos extremos del eje de salida se aconseja contactar con el Servicio Técnico de Bonfiglioli para verificar la aplicación.

RB

Los reductores tipo A10, A20, A30, A35, A41, A50, A55 y A60 que se suministran habitualmente con valores estándar de juego angular, en este caso se suministran con valores de juego angular reducido (excluye las opciones reductores AL y AR describen en este párrafo).

Los valores correspondientes de juego angular se detallan en la siguiente tabla:



(C 30)

		standard		RB	
A05	i =	5.5_12.3 - $\ominus$ (10.6)	10.6_91.6 - $\ominus$ (12.3)	—	
	φ [°]	28	18		
A10	i =	5.5_12.3 - $\ominus$ (10.6)	10.6_91.6 - $\ominus$ (12.3)	5.5_12.3 - $\ominus$ (10.6)	10.6_91.6 - $\ominus$ (12.3)
	φ [°]	27	17	12	8
A20	i =	5.4_12 - $\ominus$ (10.3)	10.3_380.9 - $\ominus$ (12)	5.4_12 - $\ominus$ (10.3)	10.3_380.9 - $\ominus$ (12)
	φ [°]	23	15	11	7
A30	i =	5.4_11.8 - $\ominus$ (10.5)	10.5_400.8 - $\ominus$ (11.8)	5.4_11.8 - $\ominus$ (10.5)	10.5_400.8 - $\ominus$ (11.8)
	φ [°]	22	15	10	7
A35	i =	5.4_11.8	13.1_393.2	5.4_11.8	13.1_393.2
	φ [°]	20	11	9	6
A41	i =	5.2_11.7 - $\ominus$ (10.1)	10.1_376.8 - $\ominus$ (11.7)	5.2_11.7 - $\ominus$ (10.1)	10.1_376.8 - $\ominus$ (11.7)
	φ [°]	19	13	9	6
A50	i =	7.7_778.2		7.7_778.2	
	φ [°]	16		7	
A55	i =	4.9_19.2	23.8_793	4.9_19.2	23.8_793
	φ [°]	17	11	8	6
A60	i =	7.9_20.6	25.7_755.4	7.9_20.6	25.7_755.4
	φ [°]	12	9	5	4
A70	i =	9.4_21.3	23.5_1715	—	
	φ [°]	14	12		
A80	i =	9.8_20.9	22.6_1558	—	
	φ [°]	13	11		
A90	i =	9.7_21	22.3_1632	—	
	φ [°]	12	10		

Para el momento de la entrega por favor póngese en contacto con la red de ventas Bonfiglioli.

BP

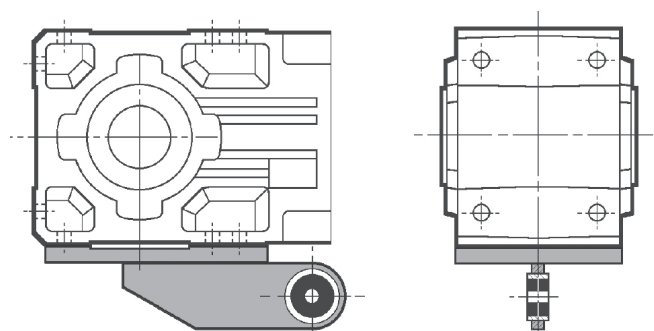
Los reductores, que generalmente se suministran con un tapón de ventilación abierto, se suministran con un tapón de ventilación de válvula. La calibración de la válvula puede variar de 0,10 a 0,15 bar dependiendo del tipo de tapón. La válvula se abre a intervalos y permite la ventilación de la presión interna evitando la entrada de cuerpos extraños.

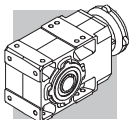
Para conocer la disponibilidad de opciones, consulte el capítulo “Posiciones de montaje y enchufes de servicio” del Manual de instalación, operación y mantenimiento (disponible en: www.bonfiglioli.com).

Si es necesario, póngase en contacto con el Servicio Técnico de Bonfiglioli.

TA

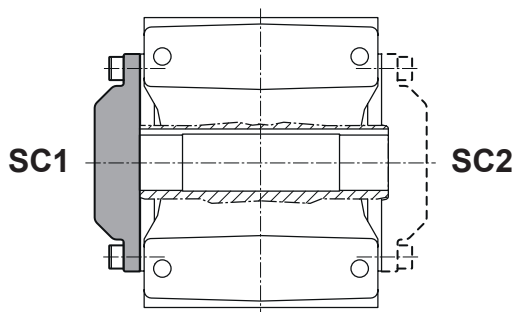
Los reductores A05...A60 se suministran con el brazo de torsión ensamblado como se muestra.





TAPA DE PROTECCIÓN

Los reductores se suministran con tapa de protección para el eje de salida (material metálico). Es posible solicitar el brazo de torsión montado en varias posiciones como se muestra (SC1, SC2).



La aplicabilidad de la opción TAPA DE PROTECCIÓN se describe en la siguiente tabla.

	TAPA DE PROTECCIÓN	
	SC1	SC2
A0.5...A90 UH...	X	X
A0.5...A90 UH...F1...	⊖	X
A0.5...A90 UH...F2...	X	⊖
A20...A60 UV...	X	X
A20...A60 UV...F1...	⊖	X
A20...A60 UV...F2...	X	⊖

PROTECCIÓN DE LA SUPERFICIE

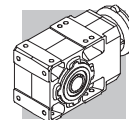
Cuando no se requiere ninguna clase de protección específica, las superficies de los reductores (ferrosas) pintadas están protegidas al menos con la clase de corrosividad C2 (UNI EN ISO 12944-2). Para mejorar la resistencia a la corrosión atmosférica, los reductores se pueden entregar con una protección de superficie **C3** y **C4**, que se obtiene a partir del pintado completo del reductor.

(C 31)

PROTECCIÓN SUPERFICIE	Ambientes típicos	Temperatura máxima superficie	Clase corrosividad conforme a UNI EN ISO 12944-2
C3	Ambientes industriales y urbanos con una humedad relativa de hasta el 100% (contaminación atmosférica media)	120°C	C3
C4	Zonas industriales, zonas costeras, fábrica de productos químicos, con una humedad relativa de hasta el 100% (alta contaminación atmosférica)	120°C	C4

Los reductores con la protección opcional de clase C3 o C4 están disponibles en una variedad de colores. Si no se solicita color específico (ver la opción “PINTURA”) el acabado de los reductores será en RAL 7042.

Los reductores también se pueden suministrar con protección de la superficie para la clase de corrosividad **C5** según la norma UNI EN ISO 12944-2. Póngase en contacto con nuestro Servicio Técnico para más detalles.



PINTURA

Los reductores con la protección opcional de clase C3 o C4 están disponibles en los colores que figuran en la siguiente tabla.

(C 32)

PINTURA	Color	Número RAL
RAL7042*	Gris Tráfico A	7042
RAL5010	Azul genciana	5010
RAL9005	Negro Jet	9005
RAL9006	Aluminio Blanco	9006
RAL9010	Blanco Puro	9010
RAL7035	Gris claro	7035
RAL7001	Gris-plata	7001
RAL5015	Azul cielo	5015
RAL7037	Gris polvoriento	7037
RAL5024	Azul pastel	5024

* Los reductores se suministran en este color estándar si no se especifica ningún otro color.

NOTA - Las opciones "PINTURA" sólo se pueden especificar en combinación con las opciones "PROTECCIÓN DE LA SUPERFICIE".

DOCUMENTACIÓN

Certificado de conformidad (AC)

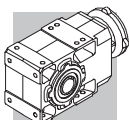
Documento en el cual se certifica la conformidad del producto con lo indicado en el pedido y su fabricación según los procedimientos estándar de producción y control que establece el sistema de calidad de Bonfiglioli Riduttori.

Certificado de prueba (CC)

La obtención de este certificado conlleva verificar la conformidad del producto con el pedido, realizar inspecciones visuales de carácter general y comprobar las dimensiones de acoplamiento. Además, exige realizar controles generales de funcionamiento en vacío y comprobar la eficacia de las juntas de retén con el sistema estático y en funcionamiento. Para llevar a cabo la prueba se utiliza una muestra estadística del lote de expedición.

33.2 Accesorios

Ver el capítulo 44 de este catálogo.



33.3 Opciones motores

AL, AR

La opción dispositivo antirretorno está también disponible para motores M y no es compatible con la presencia de la misma opción del reductor. La tabla siguiente muestra el sentido de rotación libre del reductor en base al cual se debe de hacer la selección de la opción.

(C 34)

2x	A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 60	2x	A 55					
3x	A 60	A 70	A 80	A 90					3x	A 20	A 30	A 35	A 41	A 50	A 55
4x	A 50	A 55							4x	A 60	A 70	A 80	A 90		

Para mayor información sobre las opciones, consultar el correspondiente capítulo en la sección de motores eléctricos.

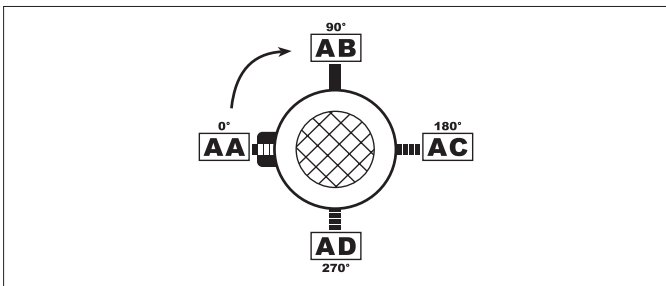
34 POSICION DE MONTAJE Y ORIENTACIÓN DE LA CAJA DE CONEXIONES

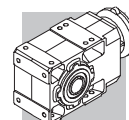
La orientación de la caja de conexiones del motor se identifica observando el motor por el lado del ventilador: la orientación estándar está resaltada en negrita (W).

Posición angular de la palanca del desbloqueo del freno

En los motores freno, la palanca de desbloqueo del freno (opcional) tiene la orientación estándar a 90° respecto a la caja de conexiones (posición AB); en caso de requerir una orientación distinta, especifíquese mediante los correspondientes códigos de opciones.

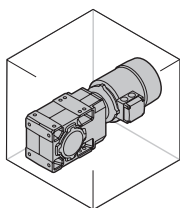
(C 33)



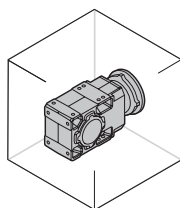


A ...

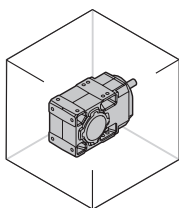
B3



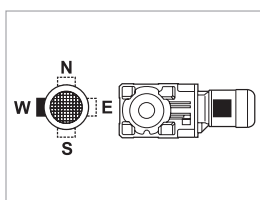
_S



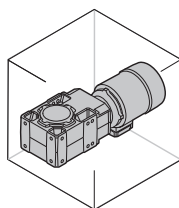
_P(IEC) _SK / _SC



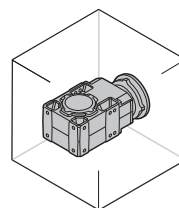
_HS



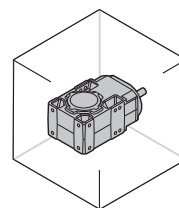
B6



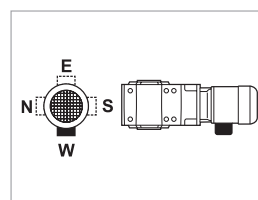
_S



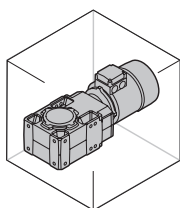
_P(IEC) _SK / _SC



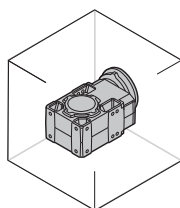
_HS



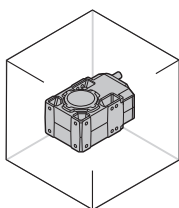
B7



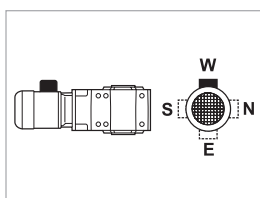
_S



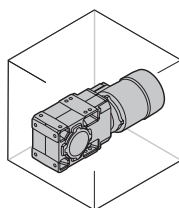
_P(IEC) _SK / _SC



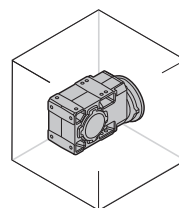
_HS



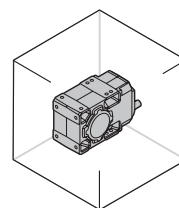
B8



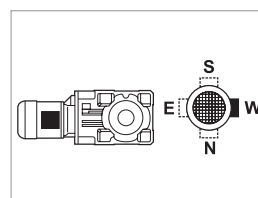
_S



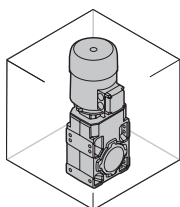
_P(IEC) _SK / _SC



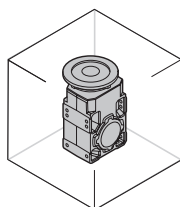
_HS



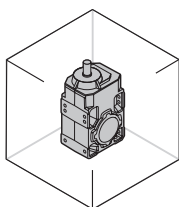
VA



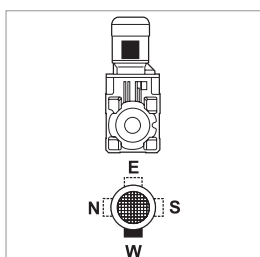
_S



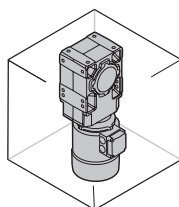
_P(IEC) _SK / _SC



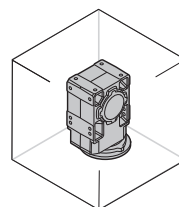
_HS



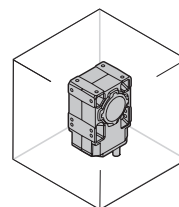
VB



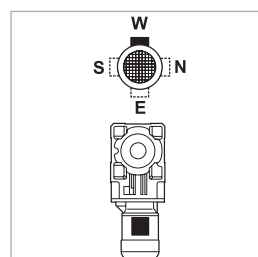
_S



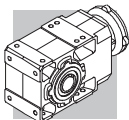
_P(IEC) _SK / _SC



_HS



W = Default



35 CARGAS RADIALES

Los órganos de transmisión acoplados en los ejes de entrada y/o salida del reductor generan una fuerza resultante en sentido radial que actúa sobre el mismo eje.

El valor de dichas cargas deberá ser compatible con la capacidad del sistema eje – cojinetes del reductor para soportarlas, en particular el valor absoluto de la carga aplicada (R_{c1} para el eje de entrada, R_{c2} para el eje de salida) deberá ser inferior al valor nominal (R_{n1} para el eje de entrada, y R_{n2} para el de salida) indicado en las tablas de datos técnicos.

En las siguientes formulas, el subíndice (1) se refiere a los valores correspondientes al eje de entrada y el subíndice (2) a los valores correspondientes al eje de salida. La carga generada por un sistema de transmisión externo puede ser calculada, con una buena aproximación, mediante la siguiente Formula:

$$R_{c1} [N] = \frac{2000 \cdot M_1 [Nm] \cdot K_r}{d [mm]} \quad ; \quad R_{c2} [N] = \frac{2000 \cdot M_2 [Nm] \cdot K_r}{d [mm]} \quad (26)$$

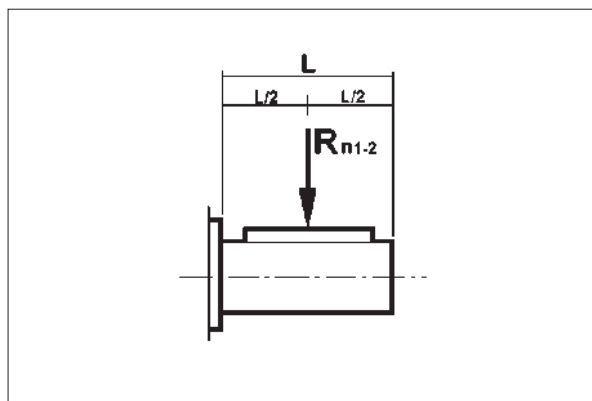
(C 35)

M₁ [Nm]	Par aplicado en el eje de entrada
M₂ [Nm]	Par suministrado en el eje de Salida
d [mm]	Diámetro primitivo de la pieza montada sobre el eje
K_r = 1	Transmisión por cadena

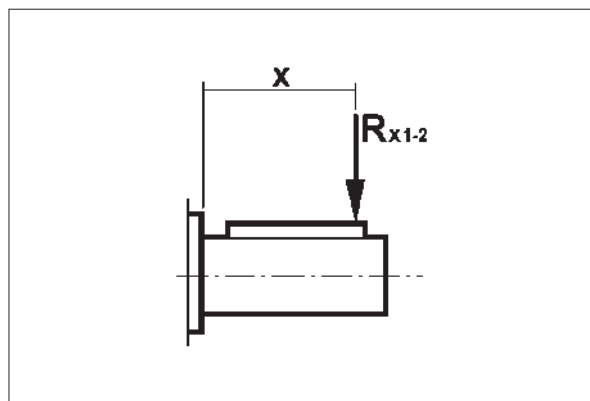
K_r = 1,25	Transmisión por engranaje
K_r = 1,5	Transmisión por correa trapecial
K_r = 2,0	Transmisión por correa plana

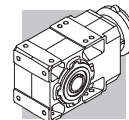
Dependiendo del punto de aplicación de la carga sobre el eje, la verificación de compatibilidad se procederá de modo diverso y en particular:

(C 36)



(C 37)





a) Aplicación de la carga en el punto medio del eje, tabla (C36)

La carga anteriormente calculada se deberá comparar con el correspondiente valor nominal de catalogo y deberá verificarse:

$$Rc1 \leq Rn1 \text{ [eje de entrada]}$$

o bien

$$Rc2 \leq Rn2 \text{ [eje de salida]}$$

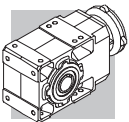
b) Aplicación de la carga a una distancia x del apoyo del eje, tabla (C37)

Cuando la carga se aplica a una distancia “x” del resalte del eje, se debe recalculer el valor admisible a dicha distancia. El nuevo valor se distingue con el símbolo Rx1 (eje rápido) y Rx2 (eje lento) y se obtiene a partir de los valores de catalogo Rn1 y Rn2 respectivamente a través del Factor.

$$\frac{a}{b+x} \quad (27)$$

(C 38)

	Constantes del reductor					
	Eje de salida			Eje de entrada		
	a	b	c	a	b	c
A 05 2	116	86	450	—	—	—
A 10 2	123	101	600	21	1	300
A 20 2	150	120	750	40	20	350
A 20 3	150	120	750	21	1	300
A 30 2	168	138	900	38.5	18.5	350
A 30 3	168	138	900	21	1	300
A 35 2	182.5	147.5	950	38.5	18.5	350
A 35 3	182.5	147.5	950	21	1	300
A 41 2	198	158	1050	49.5	24.5	450
A 41 3	198	158	1050	40	20	350
A 50 2 - A 50 3	242.5	201.5	1300	49.5	24.5	450
A 50 4	242.5	201.5	1300	38.5	18.5	350
A 55 2 - A 55 3	231.5	179	1300	49.5	24.5	450
A 55 4	231.5	179	1300	38.5	18.5	350
A 60 2 - A 60 3	242.5	190	1550	55.5	25.5	600
A 60 4	242.5	190	1550	49.5	24.5	450
A 70 3	295.5	230.5	1900	86	31	1000
A 70 4	295.5	230.5	1900	49.5	24.5	450
A 80 3	345	280	2400	86	31	1000
A 80 4	345	280	2400	49.5	24.5	450
A 90 3	432	327	3000	116	46	1400
A 90 4	432	327	3000	49.5	24.5	450



El procedimiento de verificación implica los siguientes pasos:

EJE DE ENTRADA

1. Cálculo de:

$$R_{x1} = R_{n1} \cdot \frac{a}{b+x} \quad (28)$$

Siempre que se cumpla:

$$\frac{L}{2} \leq x \leq c \quad (29)$$

Finalmente será necesario comprobar que:

$$R_{c1} \leq R_{x1} \quad (30)$$

EJE DE SALIDA

1. Cálculo de:

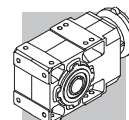
$$R_{x2} = R_{n2} \cdot \frac{a}{b+x} \quad (31)$$

Siempre que se cumpla:

$$\frac{L}{2} \leq x \leq c \quad (32)$$

Finalmente será necesario comprobar que:

$$R_{c2} \leq R_{x2} \quad (33)$$



36 CARGAS AXIALES, A_{n1} , A_{n2}

Las cargas axiales máximas admisibles en el eje de entrada [A_{n1}] y en el de salida [A_{n2}], se pueden obtener a partir de los correspondientes valores de la carga radial [R_{n1}] y [R_{n2}] mediante las siguientes expresiones:

$$\begin{aligned} A_{n1} &= R_{n1} \cdot 0.2 \\ A_{n2} &= R_{n2} \cdot 0.2 \end{aligned} \quad (34)$$

Los valores de las cargas axiales admisibles así calculados, están referidos a cargas axiales actuando al mismo tiempo con las cargas radiales nominales.

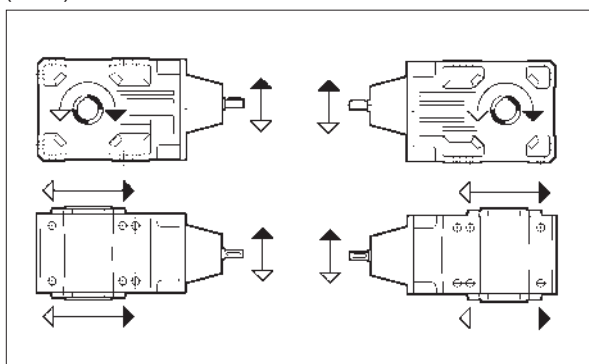
Únicamente en el caso en que la carga radial que actúe sobre el eje del reductor sea nula, se podrá considerar que la carga axial admisible [A_n] es el 50% del valor de la carga radial [R_n] admisible para el eje en cuestión.

Ante cargas axiales que superen los valores admisibles o de fuerzas axiales que resulten claramente dominantes sobre las cargas radiales, se recomienda contacten con el Servicio Técnico de Bonfiglioli.

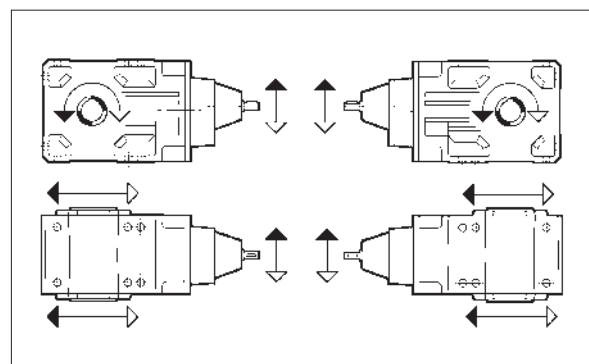
37 SENTIDO DE GIRO DE LOS EJES

En los esquemas adjuntos en la tabla siguiente están indicados los sentidos de giro estándar de los reductores con ejes ortogonales con 2, 3 y 4 trenes de Reducción.

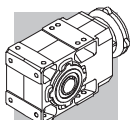
(C 39)



2x		A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 60
3x		A 60	A 70	A 80	A 90				
4x		A 50	A 55						



2x		A 55							
3x		A 20	A 30	A 35	A 41	A 50	A 55		
4x		A 60	A 70	A 80	A 90				



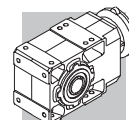
38 DATOS TECNICOS MOTORREDUCTORES

0.09 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N				
0.51	1492	3.4	1715	50000			A704_1715 P63 BN63A6	313
1.1	677	2.2	778.2	20000			A504_778.2 P63 BN63A6	301
1.2	616	2.4	707.9	20000			A504_707.9 P63 BN63A6	301
1.4	549	2.7	631.2	20000			A504_631.2 P63 BN63A6	301
1.5	499	3.0	574.2	20000			A504_574.2 P63 BN63A6	301
1.7	461	3.3	529.5	20000			A504_529.5 P63 BN63A6	301
2.2	356	1.0	400.8	9600	A303_400.8 S05 M05A6	288	A303_400.8 P63 BN63A6	289
2.6	302	1.7	339.3	12000	A353_339.3 S05 M05A6	292	A353_339.3 P63 BN63A6	293
3.0	259	3.3	291.7	15000	A413_291.7 S05 M05A6	296	A413_291.7 P63 BN63A6	297
3.5	221	2.7	248.1	12000	A353_248.1 S05 M05A6	292	A353_248.1 P63 BN63A6	293
4.1	193	2.1	216.6	9600	A303_216.6 S05 M05A6	288	A303_216.6 P63 BN63A6	289
4.9	159	1.6	178.3	6200	A203_178.3 S05 M05A6	284	A203_178.3 P63 BN63A6	285
5.8	134	2.8	150.7	9600	A303_150.7 S05 M05A6	288	A303_150.7 P63 BN63A6	289
6.8	115	2.2	129.1	6200	A203_129.1 S05 M05A6	284	A203_129.1 P63 BN63A6	285
8.1	97	2.5	109.2	6200	A203_109.2 S05 M05A6	284	A203_109.2 P63 BN63A6	285
9.6	84	1.5	91.6	5500	A102_91.6 S05 M05A6	280	A102_91.6 P63 BN63A6	281
11.5	70	2.1	76.4	5500	A102_76.4 S05 M05A6	280	A102_76.4 P63 BN63A6	281
13.3	61	2.5	65.9	5500	A102_65.9 S05 M05A6	280	A102_65.9 P63 BN63A6	281
15.0	54	2.8	58.6	5500	A102_58.6 S05 M05A6	280	A102_58.6 P63 BN63A6	281
17.2	47	3.2	51.3	5500	A102_51.3 S05 M05A6	280	A102_51.3 P63 BN63A6	281
19.4	42	2.4	45.4	4250	A052_45.4 S05 M05A6	277	A052_45.4 P63 BN63A6	277
21.5	38	2.7	40.9	4120	A052_40.9 S05 M05A6	277	A052_40.9 P63 BN63A6	277
25.1	32	3.1	35.1	3950	A052_35.1 S05 M05A6	277	A052_35.1 P63 BN63A6	277
27.3	30	3.4	32.2	3850	A052_32.2 S05 M05A6	277	A052_32.2 P63 BN63A6	277
31	26	3.8	28.6	3720	A052_28.6 S05 M05A6	277	A052_28.6 P63 BN63A6	277
35	23	4.4	25.5	3590	A052_25.5 S05 M05A6	277	A052_25.5 P63 BN63A6	277
37	22	4.6	23.8	3520	A052_23.8 S05 M05A6	277	A052_23.8 P63 BN63A6	277
41	19.6	5.3	21.4	3410	A052_21.4 S05 M05A6	277	A052_21.4 P63 BN63A6	277
47	17.1	5.9	18.6	3270	A052_18.6 S05 M05A6	277	A052_18.6 P63 BN63A6	277
53	15.1	6.8	16.4	3150	A052_16.4 S05 M05A6	277	A052_16.4 P63 BN63A6	277
63	12.8	7.8	13.9	2990	A052_13.9 S05 M05A6	277	A052_13.9 P63 BN63A6	277
72	11.3	8.8	12.3	2880	A052_12.3 S05 M05A6	277	A052_12.3 P63 BN63A6	277
83	9.7	10.3	10.6	2740	A052_10.6 S05 M05A6	277	A052_10.6 P63 BN63A6	277
92	8.8	11.3	9.6	2670	A052_9.6 S05 M05A6	277	A052_9.6 P63 BN63A6	277
103	7.8	13.2	8.5	2570	A052_8.5 S05 M05A6	277	A052_8.5 P63 BN63A6	277
122	6.6	15.1	7.2	2440	A052_7.2 S05 M05A6	277	A052_7.2 P63 BN63A6	277
139	5.8	17.8	6.3	2340	A052_6.3 S05 M05A6	277	A052_6.3 P63 BN63A6	277
161	5.0	19.9	5.5	2230	A052_5.5 S05 M05A6	277	A052_5.5 P63 BN63A6	277

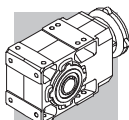
0.12 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N				
0.51	2012	2.5	1715	50000			A704_1715 P63 BN63B6	309
0.55	1857	2.7	1583	50000			A704_1583 P63 BN63B6	309
0.65	1579	3.2	1346	50000			A704_1346 P63 BN63B6	309
0.70	1457	3.4	1242	50000			A704_1242 P63 BN63B6	309



0.12 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
1.1	913	1.6	778.2	20000			A504_778.2 P63 BN63B6	301
1.2	818	3.4	697.3	30000			A604_697.3 P63 BN63B6	309
1.4	740	2.0	631.2	20000			A504_631.2 P63 BN63B6	301
1.6	621	2.4	529.5	20000			A504_529.5 P63 BN63B6	301
1.7	588	2.5	778.2	20000			A504_778.2 P63 BN63A4	301
1.9	535	2.8	707.9	20000			A504_707.9 P63 BN63A4	301
2.1	477	3.1	631.2	20000			A504_631.2 P63 BN63A4	301
2.4	434	3.5	574.2	20000			A504_574.2 P63 BN63A4	301
3.4	310	1.2	400.8	9600	A303_400.8 S05 M05A4	288	A303_400.8 P63 BN63A4	289
3.4	304	1.5	393.2	12000	A353_393.2 S05 M05A4	292	A353_393.2 P63 BN63A4	293
3.6	291	2.9	376.8	15000	A413_376.8 S05 M05A4	296	A413_376.8 P63 BN63A4	297
3.8	275	1.3	356.3	9600	A303_356.3 S05 M05A4	288	A303_356.3 P63 BN63A4	289
4.0	262	2.0	339.3	12000	A353_339.3 S05 M05A4	292	A353_339.3 P63 BN63A4	293
4.1	255	1.0	329.4	6200	A203_329.4 S05 M05A4	284	A203_329.4 P63 BN63A4	285
4.2	251	3.4	324.2	15000	A413_324.2 S05 M05A4	296	A413_324.2 P63 BN63A4	297
4.3	243	1.6	314.5	9600	A303_314.5 S05 M05A4	288	A303_314.5 P63 BN63A4	289
4.4	236	2.5	305.4	12000	A353_305.4 S05 M05A4	292	A353_305.4 P63 BN63A4	293
4.6	226	1.1	292.8	6200	A203_292.8 S05 M05A4	284	A203_292.8 P63 BN63A4	285
5.0	210	1.8	271.5	9600	A303_271.5 S05 M05A4	288	A303_271.5 P63 BN63A4	289
5.0	209	2.9	270.7	12000	A353_270.7 S05 M05A4	292	A353_270.7 P63 BN63A4	293
5.2	201	1.2	260.5	6200	A203_260.5 S05 M05A4	284	A203_260.5 P63 BN63A4	285
5.4	192	3.1	248.1	12000	A353_248.1 S05 M05A4	292	A353_248.1 P63 BN63A4	293
5.5	189	2.0	244.3	9600	A303_244.3 S05 M05A4	288	A303_244.3 P63 BN63A4	289
6.0	172	3.5	223.2	12000	A353_223.2 S05 M05A4	292	A353_223.2 P63 BN63A4	293
6.1	171	1.5	221.3	6200	A203_221.3 S05 M05A4	284	A203_221.3 P63 BN63A4	285
6.2	167	2.2	216.6	9600	A303_216.6 S05 M05A4	288	A303_216.6 P63 BN63A4	289
6.8	154	1.6	199.2	6200	A203_199.2 S05 M05A4	284	A203_199.2 P63 BN63A4	285
6.8	153	2.3	198.5	9600	A303_198.5 S05 M05A4	288	A303_198.5 P63 BN63A4	289
7.6	138	2.5	178.5	9600	A303_178.5 S05 M05A4	288	A303_178.5 P63 BN63A4	289
7.6	138	1.8	178.3	6200	A203_178.3 S05 M05A4	284	A203_178.3 P63 BN63A4	285
8.3	126	1.9	163.4	6200	A203_163.4 S05 M05A4	284	A203_163.4 P63 BN63A4	285
8.4	125	2.7	161.4	9600	A303_161.4 S05 M05A4	288	A303_161.4 P63 BN63A4	289
9.0	116	2.8	150.7	9600	A303_150.7 S05 M05A4	288	A303_150.7 P63 BN63A4	289
9.2	113	2.0	146.1	6200	A203_146.1 S05 M05A4	284	A203_146.1 P63 BN63A4	285
9.8	106	3.0	137.4	9600	A303_137.4 S05 M05A4	288	A303_137.4 P63 BN63A4	289
10.5	100	2.2	129.1	6200	A203_129.1 S05 M05A4	284	A203_129.1 P63 BN63A4	285
11.2	93	2.3	120.5	6200	A203_120.5 S05 M05A4	284	A203_120.5 P63 BN63A4	285
11.2	93	3.2	120.5	9600	A303_120.5 S05 M05A4	288	A303_120.5 P63 BN63A4	289
12.4	84	2.4	109.2	6200	A203_109.2 S05 M05A4	284	A203_109.2 P63 BN63A4	285
14.6	74	2.7	92.3	6200	A202_92.3 S05 M05A4	284	A202_92.3 P63 BN63A4	285
14.7	73	1.4	91.6	4420	A052_91.6 S05 M05A4	277	A052_91.6 P63 BN63A4	277
14.7	73	1.8	91.6	5500	A102_91.6 S05 M05A4	280	A102_91.6 P63 BN63A4	281
16.9	64	3.3	79.9	6200	A202_79.9 S05 M05A4	284	A202_79.9 P63 BN63A4	285
17.7	61	1.6	76.4	4230	A052_76.4 S05 M05A4	277	A052_76.4 P63 BN63A4	277
17.7	61	2.5	76.4	5500	A102_76.4 S05 M05A4	280	A102_76.4 P63 BN63A4	281
20.5	53	1.9	65.9	4070	A052_65.9 S05 M05A4	277	A052_65.9 P63 BN63A4	277
20.5	53	2.8	65.9	5500	A102_65.9 S05 M05A4	280	A102_65.9 P63 BN63A4	281
23.0	47	2.1	58.6	3950	A052_58.6 S05 M05A4	277	A052_58.6 P63 BN63A4	277
23.0	47	3.2	58.6	5500	A102_58.6 S05 M05A4	280	A102_58.6 P63 BN63A4	281
26.3	41	2.4	51.3	3810	A052_51.3 S05 M05A4	277	A052_51.3 P63 BN63A4	277
29.7	36	2.8	45.4	3680	A052_45.4 S05 M05A4	277	A052_45.4 P63 BN63A4	277

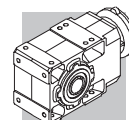


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n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
33	33	3.1	40.9	3570	A052_40.9 S05 M05A4	277	A052_40.9 P63 BN63A4	277
38	28	3.6	35.1	3420	A052_35.1 S05 M05A4	277	A052_35.1 P63 BN63A4	277
42	26	3.9	32.2	3340	A052_32.2 S05 M05A4	277	A052_32.2 P63 BN63A4	277
47	23	4.4	28.6	3220	A052_28.6 S05 M05A4	277	A052_28.6 P63 BN63A4	277
53	20	4.9	25.5	3110	A052_25.5 S05 M05A4	277	A052_25.5 P63 BN63A4	277
57	19	5.3	23.8	3050	A052_23.8 S05 M05A4	277	A052_23.8 P63 BN63A4	277
62	17.3	5.8	13.9	2960	A052_13.9 S05 M05B6	277	A052_13.9 P63 BN63B6	277
63	17.1	5.9	21.4	2950	A052_21.4 S05 M05A4	277	A052_21.4 P63 BN63A4	277
73	14.8	6.7	18.6	2830	A052_18.6 S05 M05A4	277	A052_18.6 P63 BN63A4	277
82	13.1	7.6	16.4	2730	A052_16.4 S05 M05A4	277	A052_16.4 P63 BN63A4	277
90	11.9	8.4	9.6	2640	A052_9.6 S05 M05B6	277	A052_9.6 P63 BN63B6	277
97	11.1	9.0	13.9	2590	A052_13.9 S05 M05A4	277	A052_13.9 P63 BN63A4	277
110	9.8	10.2	12.3	2500	A052_12.3 S05 M05A4	277	A052_12.3 P63 BN63A4	277
121	8.9	11.2	7.2	2420	A052_7.2 S05 M05B6	277	A052_7.2 P63 BN63B6	277
128	8.4	11.9	10.6	2380	A052_10.6 S05 M05A4	277	A052_10.6 P63 BN63A4	277
140	7.7	13.0	9.6	2310	A052_9.6 S05 M05A4	277	A052_9.6 P63 BN63A4	277
159	6.8	14.7	8.5	2220	A052_8.5 S05 M05A4	277	A052_8.5 P63 BN63A4	277
187	5.8	17.4	7.2	2110	A052_7.2 S05 M05A4	277	A052_7.2 P63 BN63A4	277
213	5.1	19.8	6.3	2020	A052_6.3 S05 M05A4	277	A052_6.3 P63 BN63A4	277
247	4.4	21.8	5.5	1930	A052_5.5 S05 M05A4	277	A052_5.5 P63 BN63A4	277

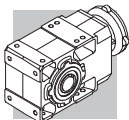
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n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
0.52	2917	1.7	1715	50000	A704_1715 S1 M1SC6	312	A704_1715 P71 BN71A6	313
0.58	2649	3.0	1558	65000	A804_1558 S1 M1SC6	315	A804_1558 P71 BN71A6	316
0.67	2279	3.5	1340	65000	A804_1340 S1 M1SC6	315	A804_1340 P71 BN71A6	316
0.77	1989	2.5	1715	50000			A704_1715 P63 BN63B4	313
0.83	1836	2.7	1583	50000			A704_1583 P63 BN63B4	313
0.98	1561	3.2	1346	50000			A704_1346 P63 BN63B4	313
1.1	1441	3.5	1242	50000			A704_1242 P63 BN63B4	313
1.3	1186	2.4	697.3	30000	A604_697.3 S1 M1SC6	308	A604_697.3 P71 BN71A6	309
1.5	996	2.8	585.8	30000	A604_585.8 S1 M1SC6	308	A604_585.8 P71 BN71A6	309
1.7	902	1.7	778.2	20000			A504_778.2 P63 BN63B4	301
1.7	876	3.2	755.4	30000			A604_755.4 P63 BN63B4	309
1.9	821	1.8	707.9	20000			A504_707.9 P63 BN63B4	301
1.9	809	3.5	697.3	30000			A604_697.3 P63 BN63B4	309
2.1	732	2.0	631.2	20000			A504_631.2 P63 BN63B4	301
2.3	666	2.3	574.2	20000			A504_574.2 P63 BN63B4	301
2.5	614	2.4	529.5	20000			A504_529.5 P63 BN63B4	301
2.7	559	2.7	481.6	20000			A504_481.6 P63 BN63B4	301
3.0	518	2.9	446.8	20000			A504_446.8 P63 BN63B4	301
3.2	471	3.2	406.4	20000			A504_406.4 P63 BN63B4	301
3.4	466	1.0	393.2	12000	A353_393.2 S05 M05B4	292	A353_393.2 P63 BN63B4	293
3.5	447	1.9	376.8	15000	A413_376.8 S05 M05B4	296	A413_376.8 P63 BN63B4	297
3.6	424	3.5	365.6	20000			A504_365.6 P63 BN63B4	301
3.7	422	0.9	356.3	9600	A303_356.3 S05 M05B4	288	A303_356.3 P63 BN63B4	289
3.9	402	1.3	339.3	12000	A353_339.3 S05 M05B4	292	A353_339.3 P63 BN63B4	293



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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC 	
4.1	384	2.2	324.2	15000	A413_324.2 S05 M05B4	296	A413_324.2 P63 BN63B4	297
4.2	373	1.0	314.5	9600	A303_314.5 S05 M05B4	288	A303_314.5 P63 BN63B4	289
4.3	362	1.7	305.4	12000	A353_305.4 S05 M05B4	292	A353_305.4 P63 BN63B4	293
4.5	346	2.5	291.7	15000	A413_291.7 S05 M05B4	296	A413_291.7 P63 BN63B4	297
4.9	322	1.2	271.5	9600	A303_271.5 S05 M05B4	288	A303_271.5 P63 BN63B4	289
4.9	321	1.9	270.7	12000	A353_270.7 S05 M05B4	292	A353_270.7 P63 BN63B4	293
5.0	311	2.7	262.5	15000	A413_262.5 S05 M05B4	296	A413_262.5 P63 BN63B4	297
5.3	294	2.0	248.1	12000	A353_248.1 S05 M05B4	292	A353_248.1 P63 BN63B4	293
5.4	290	1.3	244.3	9600	A303_244.3 S05 M05B4	288	A303_244.3 P63 BN63B4	289
5.5	285	3.0	240.6	15000	A413_240.6 S05 M05B4	296	A413_240.6 P63 BN63B4	297
5.9	265	2.3	223.2	12000	A353_223.2 S05 M05B4	292	A353_223.2 P63 BN63B4	293
6.0	262	1.0	221.3	6200	A203_221.3 S05 M05B4	284	A203_221.3 P63 BN63B4	285
6.1	258	3.3	217.4	15000	A413_217.4 S05 M05B4	296	A413_217.4 P63 BN63B4	297
6.1	257	1.4	216.6	9600	A303_216.6 S05 M05B4	288	A303_216.6 P63 BN63B4	289
6.5	239	2.5	201.8	12000	A353_201.8 S05 M05B4	292	A353_201.8 P63 BN63B4	293
6.6	236	1.1	199.2	6200	A203_199.2 S05 M05B4	284	A203_199.2 P63 BN63B4	285
6.6	235	1.5	198.5	9600	A303_198.5 S05 M05B4	288	A303_198.5 P63 BN63B4	289
7.0	223	2.7	188.3	12000	A353_188.3 S05 M05B4	292	A353_188.3 P63 BN63B4	293
7.4	212	1.6	178.5	9600	A303_178.5 S05 M05B4	288	A303_178.5 P63 BN63B4	289
7.4	211	1.2	178.3	6200	A203_178.3 S05 M05B4	284	A203_178.3 P63 BN63B4	285
7.7	204	2.9	171.8	12000	A353_171.8 S05 M05B4	292	A353_171.8 P63 BN63B4	293
8.1	194	1.2	163.4	6200	A203_163.4 S05 M05B4	284	A203_163.4 P63 BN63B4	285
8.2	191	1.8	161.4	9600	A303_161.4 S05 M05B4	288	A303_161.4 P63 BN63B4	289
8.8	179	1.8	150.7	9600	A303_150.7 S05 M05B4	288	A303_150.7 P63 BN63B4	289
8.8	179	3.4	150.6	12000	A353_150.6 S05 M05B4	292	A353_150.6 P63 BN63B4	293
9.0	173	1.3	146.1	6200	A203_146.1 S05 M05B4	284	A203_146.1 P63 BN63B4	285
9.6	163	1.9	137.4	9600	A303_137.4 S05 M05B4	288	A303_137.4 P63 BN63B4	289
10.2	153	1.4	129.1	6200	A203_129.1 S05 M05B4	284	A203_129.1 P63 BN63B4	285
11.0	143	1.5	120.5	6200	A203_120.5 S05 M05B4	284	A203_120.5 P63 BN63B4	285
11.0	143	2.1	120.5	9600	A303_120.5 S05 M05B4	288	A303_120.5 P63 BN63B4	289
12.1	129	1.6	109.2	6200	A203_109.2 S05 M05B4	284	A203_109.2 P63 BN63B4	285
12.1	129	2.3	109.1	9600	A303_109.1 S05 M05B4	288	A303_109.1 P63 BN63B4	289
13.5	119	2.5	97.5	9600			A302_97.5 P63 BN63B4	289
14.3	113	1.8	92.3	6200	A202_92.3 S05 M05B4	284	A202_92.3 P63 BN63B4	285
14.4	112	0.9	91.6	4120	A052_91.6 S05 M05B4	277	A052_91.6 P63 BN63B4	277
14.4	112	1.2	91.6	5500	A102_91.6 S05 M05B4	280	A102_91.6 P63 BN63B4	281
15.2	106	3.0	86.7	9600			A302_86.7 P63 BN63B4	289
16.5	98	2.1	79.9	6200	A202_79.9 S05 M05B4	284	A202_79.9 P63 BN63B4	285
17.3	94	1.1	76.4	3980	A052_76.4 S05 M05B4	277	A052_76.4 P63 BN63B4	277
17.3	94	1.6	76.4	5500	A102_76.4 S05 M05B4	280	A102_76.4 P63 BN63B4	281
18.6	87	2.4	71.0	6200	A202_71.0 S05 M05B4	284	A202_71.0 P63 BN63B4	285
20.0	81	1.2	65.9	3860	A052_65.9 S05 M05B4	277	A052_65.9 P63 BN63B4	277
20.0	81	1.9	65.9	5500	A102_65.9 S05 M05B4	280	A102_65.9 P63 BN63B4	281
20.9	77	3.2	63.1	6200	A202_63.1 S05 M05B4	284	A202_63.1 P63 BN63B4	285
22.5	72	1.4	58.6	3760	A052_58.6 S05 M05B4	277	A052_58.6 P63 BN63B4	277
22.5	72	2.1	58.6	5500	A102_58.6 S05 M05B4	280	A102_58.6 P63 BN63B4	281
25.8	63	1.6	51.3	3640	A052_51.3 S05 M05B4	277	A052_51.3 P63 BN63B4	277
25.8	63	2.4	51.3	5500	A102_51.3 S05 M05B4	280	A102_51.3 P63 BN63B4	281
29.1	56	1.8	45.4	3540	A052_45.4 S05 M05B4	277	A052_45.4 P63 BN63B4	277
29.1	56	2.7	45.4	5500	A102_45.4 S05 M05B4	280	A102_45.4 P63 BN63B4	281
32	50	2.0	40.9	3440	A052_40.9 S05 M05B4	277	A052_40.9 P63 BN63B4	277

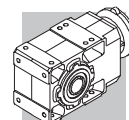


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n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
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38	43	2.3	35.1	3310	A052_35.1 S05 M05B4	277	A052_35.1 P63 BN63B4	277
38	43	3.5	35.1	5380	A102_35.1 S05 M05B4	280	A102_35.1 P63 BN63B4	281
41	39	2.5	32.2	3240	A052_32.2 S05 M05B4	277	A052_32.2 P63 BN63B4	277
46	35	2.9	28.6	3130	A052_28.6 S05 M05B4	277	A052_28.6 P63 BN63B4	277
52	31	3.2	25.5	3040	A052_25.5 S05 M05B4	277	A052_25.5 P63 BN63B4	277
56	29	3.4	23.8	2980	A052_23.8 S05 M05B4	277	A052_23.8 P63 BN63B4	277
62	26	3.8	21.4	2890	A052_21.4 S05 M05B4	277	A052_21.4 P63 BN63B4	277
71	23	4.4	18.6	2780	A052_18.6 S05 M05B4	277	A052_18.6 P63 BN63B4	277
80	20	5.0	16.4	2680	A052_16.4 S05 M05B4	277	A052_16.4 P63 BN63B4	277
95	17.1	5.9	13.9	2550	A052_13.9 S05 M05B4	277	A052_13.9 P63 BN63B4	277
107	15.1	6.6	12.3	2460	A052_12.3 S05 M05B4	277	A052_12.3 P63 BN63B4	277
125	12.9	7.7	10.6	2350	A052_10.6 S05 M05B4	277	A052_10.6 P63 BN63B4	277
137	11.8	8.5	9.6	2280	A052_9.6 S05 M05B4	277	A052_9.6 P63 BN63B4	277
142	11.4	8.8	6.3	2300	A052_6.3 S1 M1SC6	277	A052_6.3 P71 BN71A6	277
155	10.4	9.6	8.5	2200	A052_8.5 S05 M05B4	277	A052_8.5 P63 BN63B4	277
183	8.8	11.3	7.2	2090	A052_7.2 S05 M05B4	277	A052_7.2 P63 BN63B4	277
208	7.8	12.9	6.3	2010	A052_6.3 S05 M05B4	277	A052_6.3 P63 BN63B4	277
242	6.7	14.2	5.5	1920	A052_5.5 S05 M05B4	277	A052_5.5 P63 BN63B4	277
284	5.7	16.7	9.6	1830	A052_9.6 S05 M05A2	277	A052_9.6 P63 BN63A2	277
321	5.0	17.8	8.5	1770	A052_8.5 S05 M05A2	277	A052_8.5 P63 BN63A2	277
379	4.3	19.9	7.2	1670	A052_7.2 S05 M05A2	277	A052_7.2 P63 BN63A2	277
431	3.8	21.3	6.3	1610	A052_6.3 S05 M05A2	277	A052_6.3 P63 BN63A2	277
499	3.2	23.2	5.5	1530	A052_5.5 S05 M05A2	277	A052_5.5 P63 BN63A2	277

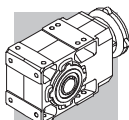
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0.58	3680	2.2	1558	65000	A804_1558 S1 M1SD6	315	A804_1558 P71 BN71B6	316
0.67	3165	2.5	1340	65000	A804_1340 S1 M1SD6	315	A804_1340 P71 BN71B6	316
0.80	2642	1.9	1715	50000			A704_1715 P71 BN71A4	313
0.87	2439	2.1	1583	50000			A704_1583 P71 BN71A4	313
0.89	2400	3.3	1558	65000			A804_1558 P71 BN71A4	316
1.0	2073	2.4	1346	50000			A704_1346 P71 BN71A4	313
1.1	1914	2.6	1242	50000			A704_1242 P71 BN71A4	313
1.2	1789	2.8	1161	50000			A704_1161 P71 BN71A4	313
1.3	1652	3.0	1072	50000			A704_1072 P71 BN71A4	313
1.5	1427	3.5	926.5	50000			A704_926.5 P71 BN71A4	313
1.8	1199	1.3	778.2	20000			A504_778.2 P71 BN71A4	301
1.8	1164	2.4	755.4	30000			A604_755.4 P71 BN71A4	309
1.9	1091	1.4	707.9	20000			A504_707.9 P71 BN71A4	301
2.0	1074	2.6	697.3	30000			A604_697.3 P71 BN71A4	309
2.2	978	2.9	634.6	30000			A604_634.6 P71 BN71A4	309
2.2	972	1.5	631.2	20000			A504_631.2 P71 BN71A4	301
2.4	902	3.1	585.8	30000			A604_585.8 P71 BN71A4	309
2.4	885	1.7	574.2	20000			A504_574.2 P71 BN71A4	301
2.5	835	3.4	542.0	30000			A604_542.0 P71 BN71A4	309



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n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
2.6	816	1.8	529.5	20000			A504_529.5 P71 BN71A4	301
2.9	742	2.0	481.6	20000			A504_481.6 P71 BN71A4	301
3.1	688	2.2	446.8	20000			A504_446.8 P71 BN71A4	301
3.4	626	2.4	406.4	20000			A504_406.4 P71 BN71A4	301
3.6	611	1.4	376.8	15000	A413_376.8 S05 M05C4	296	A413_376.8 P71 BN71A4	297
3.8	563	2.7	365.6	20000			A504_365.6 P71 BN71A4	301
3.9	550	0.9	339.3	12000	A353_339.3 S05 M05C4	292	A353_339.3 P71 BN71A4	293
4.1	526	1.6	324.2	15000	A413_324.2 S05 M05C4	296	A413_324.2 P71 BN71A4	297
4.1	512	2.9	332.6	20000			A504_332.6 P71 BN71A4	301
4.4	495	1.2	305.4	12000	A353_305.4 S05 M05C4	292	A353_305.4 P71 BN71A4	293
4.7	460	1.8	291.7	15000	A413_291.7 S05 M05C4	296	A413_291.7 P71 BN71A4	297
4.8	442	3.4	286.8	20000			A504_286.8 P71 BN71A4	301
4.9	440	0.9	271.5	9600	A303_271.5 S05 M05C4	288	A303_271.5 P71 BN71A4	289
5.0	439	1.4	270.7	12000	A353_270.7 S05 M05C4	292	A353_270.7 P71 BN71A4	293
5.1	426	2.0	262.5	15000	A413_262.5 S05 M05C4	296	A413_262.5 P71 BN71A4	297
5.4	403	1.5	248.1	12000	A353_248.1 S05 M05C4	292	A353_248.1 P71 BN71A4	293
5.6	385	1.0	244.3	9600	A303_244.3 S05 M05C4	288	A303_244.3 P71 BN71A4	289
5.7	379	2.2	240.6	15000	A413_240.6 S05 M05C4	296	A413_240.6 P71 BN71A4	297
6.0	362	1.7	223.2	12000	A353_223.2 S05 M05C4	292	A353_223.2 P71 BN71A4	293
6.2	353	2.4	217.4	15000	A413_217.4 S05 M05C4	296	A413_217.4 P71 BN71A4	297
6.2	351	1.0	216.6	9600	A303_216.6 S05 M05C4	288	A303_216.6 P71 BN71A4	289
6.6	327	1.8	201.8	12000	A353_201.8 S05 M05C4	292	A353_201.8 P71 BN71A4	293
7.0	313	1.1	198.5	9600	A303_198.5 S05 M05C4	288	A303_198.5 P71 BN71A4	289
7.0	311	2.7	197.5	15000	A413_197.5 S05 M05C4	296	A413_197.5 P71 BN71A4	297
7.1	306	2.0	188.3	12000	A353_188.3 S05 M05C4	292	A353_188.3 P71 BN71A4	293
7.3	299	2.8	184.4	15000	A413_184.4 S05 M05C4	296	A413_184.4 P71 BN71A4	297
7.5	290	1.2	178.5	9600	A303_178.5 S05 M05C4	288	A303_178.5 P71 BN71A4	289
7.8	279	2.2	171.8	12000	A353_171.8 S05 M05C4	292	A353_171.8 P71 BN71A4	293
8.4	257	0.9	163.4	6200	A203_163.4 S05 M05C4	284	A203_163.4 P71 BN71A4	285
8.5	254	1.3	161.4	9600	A303_161.4 S05 M05C4	288	A303_161.4 P71 BN71A4	289
8.9	244	1.4	150.7	9600	A303_150.7 S05 M05C4	288	A303_150.7 P71 BN71A4	289
8.9	244	2.5	150.6	12000	A353_150.6 S05 M05C4	292	A353_150.6 P71 BN71A4	293
9.2	237	1.0	146.1	6200	A203_146.1 S05 M05C4	284	A203_146.1 P71 BN71A4	285
9.8	221	2.6	136.3	12000	A353_136.3 S05 M05C4	292	A353_136.3 P71 BN71A4	293
10.0	216	1.5	137.4	9600	A303_137.4 S05 M05C4	288	A303_137.4 P71 BN71A4	289
10.7	203	1.1	129.1	6200	A203_129.1 S05 M05C4	284	A203_129.1 P71 BN71A4	285
11.1	196	1.1	120.5	6200	A203_120.5 S05 M05C4	284	A203_120.5 P71 BN71A4	285
11.1	195	1.5	120.5	9600	A303_120.5 S05 M05C4	288	A303_120.5 P71 BN71A4	289
11.5	190	3.0	116.9	12000	A353_116.9 S05 M05C4	292	A353_116.9 P71 BN71A4	293
12.6	172	1.2	109.2	6200	A203_109.2 S05 M05C4	284	A203_109.2 P71 BN71A4	285
12.7	172	1.7	109.1	9600	A303_109.1 S05 M05C4	288	A303_109.1 P71 BN71A4	289
12.7	171	3.1	105.5	12000	A353_105.5 S05 M05C4	292	A353_105.5 P71 BN71A4	293
14.2	159	1.9	97.5	9600			A302_97.5 P71 BN71A4	289
14.4	156	3.5	95.6	12000			A352_95.6 P71 BN71A4	293
14.5	155	1.3	92.3	6200	A202_92.3 S05 M05C4	284	A202_92.3 P71 BN71A4	285
15.9	141	2.3	86.7	9600			A302_86.7 P71 BN71A4	289
16.8	134	1.6	79.9	6200	A202_79.9 S05 M05C4	284	A202_79.9 P71 BN71A4	285
17.5	128	1.2	76.4	5500	A102_76.4 S05 M05C4	280	A102_76.4 P71 BN71A4	281
18.0	125	2.8	76.5	9600			A302_76.5 P71 BN71A4	289
19.4	116	1.8	71.0	6200	A202_71.0 S05 M05C4	284	A202_71.0 P71 BN71A4	285
20.3	110	0.9	65.9	3610	A052_65.9 S05 M05C4	277	A052_65.9 P71 BN71A4	277

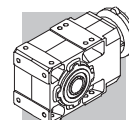


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n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
20.3	110	1.4	65.9	5500	A102_65.9 S05 M05C4	280	A102_65.9 P71 BN71A4	281
21.2	106	2.3	63.1	6200	A202_63.1 S05 M05C4	284	A202_63.1 P71 BN71A4	285
22.9	98	1.0	58.6	3540	A052_58.6 S05 M05C4	277	A052_58.6 P71 BN71A4	277
23.5	95	1.6	58.6	5500	A102_58.6 S05 M05C4	280	A102_58.6 P71 BN71A4	281
25.0	90	2.8	53.7	6200	A202_53.7 S05 M05C4	284	A202_53.7 P71 BN71A4	285
26.1	86	1.2	51.3	3450	A052_51.3 S05 M05C4	277	A052_51.3 P71 BN71A4	277
26.1	86	1.7	51.3	5500	A102_51.3 S05 M05C4	280	A102_51.3 P71 BN71A4	281
28.6	79	3.2	48.3	6180	A202_48.3 S05 M05C4	284	A202_48.3 P71 BN71A4	285
29.5	76	1.3	45.4	3370	A052_45.4 S05 M05C4	277	A052_45.4 P71 BN71A4	277
29.5	76	2.0	45.4	5500	A102_45.4 S05 M05C4	280	A102_45.4 P71 BN71A4	281
33	68	1.5	40.9	3290	A052_40.9 S05 M05C4	277	A052_40.9 P71 BN71A4	277
34	66	2.3	40.9	5500	A102_40.9 S05 M05C4	280	A102_40.9 P71 BN71A4	281
38	59	1.7	35.1	3180	A052_35.1 S05 M05C4	277	A052_35.1 P71 BN71A4	277
38	59	2.5	35.1	5260	A102_35.1 S05 M05C4	280	A102_35.1 P71 BN71A4	281
42	54	1.9	32.2	3120	A052_32.2 S05 M05C4	277	A052_32.2 P71 BN71A4	277
43	52	2.9	32.2	5500	A102_32.2 S05 M05C4	280	A102_32.2 P71 BN71A4	281
47	48	2.1	28.6	3030	A052_28.6 S05 M05C4	277	A052_28.6 P71 BN71A4	277
47	48	3.1	28.6	4970	A102_28.6 S05 M05C4	280	A102_28.6 P71 BN71A4	281
53	43	2.3	25.5	2940	A052_25.5 S05 M05C4	277	A052_25.5 P71 BN71A4	277
56	40	2.5	23.8	2890	A052_23.8 S05 M05C4	277	A052_23.8 P71 BN71A4	277
63	36	2.8	21.4	2810	A052_21.4 S05 M05C4	277	A052_21.4 P71 BN71A4	277
72	31	3.2	18.6	2710	A052_18.6 S05 M05C4	277	A052_18.6 P71 BN71A4	277
84	27	3.7	16.4	2620	A052_16.4 S05 M05C4	277	A052_16.4 P71 BN71A4	277
99	23	4.4	13.9	2500	A052_13.9 S05 M05C4	277	A052_13.9 P71 BN71A4	277
112	20	5.0	12.3	2420	A052_12.3 S05 M05C4	277	A052_12.3 P71 BN71A4	277
131	17.2	5.8	10.6	2310	A052_10.6 S05 M05C4	277	A052_10.6 P71 BN71A4	277
144	15.7	6.4	9.6	2260	A052_9.6 S05 M05C4	277	A052_9.6 P71 BN71A4	277
162	13.9	7.2	8.5	2180	A052_8.5 S05 M05C4	277	A052_8.5 P71 BN71A4	277
191	11.7	8.5	7.2	2070	A052_7.2 S05 M05C4	277	A052_7.2 P71 BN71A4	277
218	10.3	9.7	6.3	1990	A052_6.3 S05 M05C4	277	A052_6.3 P71 BN71A4	277
252	8.9	10.7	5.5	1900	A052_5.5 S05 M05C4	277	A052_5.5 P71 BN71A4	277
285	7.9	12.1	9.6	1820	A052_9.6 S05 M05B2	277	A052_9.6 P63 BN63B2	277
322	7.0	12.9	8.5	1750	A052_8.5 S05 M05B2	277	A052_8.5 P63 BN63B2	277
380	5.9	14.4	7.2	1660	A052_7.2 S05 M05B2	277	A052_7.2 P63 BN63B2	277
433	5.2	15.4	6.3	1590	A052_6.3 S05 M05B2	277	A052_6.3 P63 BN63B2	277
501	4.5	16.7	5.5	1520	A052_5.5 S05 M05B2	277	A052_5.5 P63 BN63B2	277

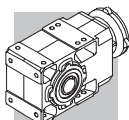
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n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
0.56	5644	2.5	1632	75000	A904_1632 S1 M1LA6	318	A904_1632 P80 BN80A6	319
0.63	4972	1.6	1438	65000	A804_1438 S1 M1LA6	315	A804_1438 P80 BN80A6	316
0.74	4226	3.3	1222	75000	A904_1222 S1 M1LA6	318	A904_1222 P80 BN80A6	319
0.80	3939	1.3	1715	50000	A704_1715 S1 M1SD4	312	A704_1715 P71 BN71B4	313
0.87	3636	1.4	1583	50000	A704_1583 S1 M1SD4	312	A704_1583 P71 BN71B4	313
0.88	3577	2.2	1558	65000	A804_1558 S1 M1SD4	315	A804_1558 P71 BN71B4	316
0.95	3302	2.4	1438	65000	A804_1438 S1 M1SD4	315	A804_1438 P71 BN71B4	316
1.0	3091	1.6	1346	50000	A704_1346 S1 M1SD4	312	A704_1346 P71 BN71B4	313



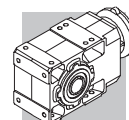
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC 	
1.0	3077	2.6	1340	65000	A804_1340 S1 M1SD4	315	A804_1340 P71 BN71B4	316
1.1	2853	1.8	1242	50000	A704_1242 S1 M1SD4	312	A704_1242 P71 BN71B4	313
1.1	2841	2.8	1237	65000	A804_1237 S1 M1SD4	315	A804_1237 P71 BN71B4	316
1.2	2668	1.9	1161	50000	A704_1161 S1 M1SD4	312	A704_1161 P71 BN71B4	313
1.3	2492	3.2	1085	65000	A804_1085 S1 M1SD4	315	A804_1085 P71 BN71B4	316
1.3	2462	2.0	1072	50000	A704_1072 S1 M1SD4	312	A704_1072 P71 BN71B4	313
1.4	2300	3.5	1001	65000	A804_1001 S1 M1SD4	315	A804_1001 P71 BN71B4	316
1.5	2128	2.3	926.5	50000	A704_926.5 S1 M1SD4	312	A704_926.5 P71 BN71B4	313
1.6	1964	2.5	855.3	50000	A704_855.3 S1 M1SD4	312	A704_855.3 P71 BN71B4	313
1.8	1754	2.8	763.9	50000	A704_763.9 S1 M1SD4	312	A704_763.9 P71 BN71B4	313
1.8	1735	1.6	755.4	30000	A604_755.4 S1 M1SD4	308	A604_755.4 P71 BN71B4	309
1.9	1626	0.9	707.9	20000	A504_707.9 S1 M1SD4	300	A504_707.9 P71 BN71B4	301
1.9	1619	3.1	705.1	50000	A704_705.1 S1 M1SD4	312	A704_705.1 P71 BN71B4	313
2.0	1601	1.7	697.3	30000	A604_697.3 S1 M1SD4	308	A604_697.3 P71 BN71B4	309
2.1	1481	3.4	644.6	50000	A704_644.6 S1 M1SD4	312	A704_644.6 P71 BN71B4	313
2.2	1457	1.9	634.6	30000	A604_634.6 S1 M1SD4	308	A604_634.6 P71 BN71B4	309
2.2	1450	1.0	631.2	20000	A504_631.2 S1 M1SD4	300	A504_631.2 P71 BN71B4	301
2.3	1345	2.1	585.8	30000	A604_585.8 S1 M1SD4	308	A604_585.8 P71 BN71B4	309
2.4	1319	1.1	574.2	20000	A504_574.2 S1 M1SD4	300	A504_574.2 P71 BN71B4	301
2.5	1245	2.2	542.0	30000	A604_542.0 S1 M1SD4	308	A604_542.0 P71 BN71B4	309
2.6	1216	1.2	529.5	20000	A504_529.5 S1 M1SD4	300	A504_529.5 P71 BN71B4	301
2.7	1149	2.4	500.3	30000	A604_500.3 S1 M1SD4	308	A604_500.3 P71 BN71B4	309
2.8	1106	1.4	481.6	20000	A504_481.6 S1 M1SD4	300	A504_481.6 P71 BN71B4	301
3.1	1026	1.5	446.8	20000	A504_446.8 S1 M1SD4	300	A504_446.8 P71 BN71B4	301
3.1	1007	2.8	438.4	30000	A604_438.4 S1 M1SD4	308	A604_438.4 P71 BN71B4	309
3.4	933	1.6	406.4	20000	A504_406.4 S1 M1SD4	300	A504_406.4 P71 BN71B4	301
3.4	929	3.0	404.7	30000	A604_404.7 S1 M1SD4	308	A604_404.7 P71 BN71B4	309
3.6	885	1.0	376.8	15000	A413_376.8 S1 M1SD4	296	A413_376.8 P71 BN71B4	297
3.7	840	1.8	365.6	20000	A504_365.6 S1 M1SD4	300	A504_365.6 P71 BN71B4	301
3.9	807	3.5	351.2	30000	A604_351.2 S1 M1SD4	308	A604_351.2 P71 BN71B4	309
4.1	764	2.0	332.6	20000	A504_332.6 S1 M1SD4	300	A504_332.6 P71 BN71B4	301
4.2	761	1.1	324.2	15000	A413_324.2 S1 M1SD4	296	A413_324.2 P71 BN71B4	297
4.7	685	1.2	291.7	15000	A413_291.7 S1 M1SD4	296	A413_291.7 P71 BN71B4	297
4.8	659	2.3	286.8	20000	A504_286.8 S1 M1SD4	300	A504_286.8 P71 BN71B4	301
5.1	636	0.9	270.7	12000	A353_270.7 S1 M1SD4	292	A353_270.7 P71 BN71B4	293
5.2	616	1.4	262.5	15000	A413_262.5 S1 M1SD4	296	A413_262.5 P71 BN71B4	297
5.3	599	2.5	260.9	20000	A504_260.9 S1 M1SD4	300	A504_260.9 P71 BN71B4	301
5.5	583	1.0	248.1	12000	A353_248.1 S1 M1SD4	292	A353_248.1 P71 BN71B4	293
5.7	565	1.5	240.6	15000	A413_240.6 S1 M1SD4	296	A413_240.6 P71 BN71B4	297
5.9	533	2.8	232.0	20000	A504_232.0 S1 M1SD4	300	A504_232.0 P71 BN71B4	301
6.1	524	1.1	223.2	12000	A353_223.2 S1 M1SD4	292	A353_223.2 P71 BN71B4	293
6.3	511	1.7	217.4	15000	A413_217.4 S1 M1SD4	296	A413_217.4 P71 BN71B4	297
6.5	485	3.1	211.0	20000	A504_211.0 S1 M1SD4	300	A504_211.0 P71 BN71B4	301
6.8	474	1.3	201.8	12000	A353_201.8 S1 M1SD4	292	A353_201.8 P71 BN71B4	293
6.9	464	1.8	197.5	15000	A413_197.5 S1 M1SD4	296	A413_197.5 P71 BN71B4	297
7.2	448	3.4	190.6	20000	A503_190.6 S1 M1SD4	300	A503_190.6 P71 BN71B4	301
7.3	442	1.4	188.3	12000	A353_188.3 S1 M1SD4	292	A353_188.3 P71 BN71B4	293
7.4	433	2.0	184.4	15000	A413_184.4 S1 M1SD4	296	A413_184.4 P71 BN71B4	297
8.0	403	1.5	171.8	12000	A353_171.8 S1 M1SD4	292	A353_171.8 P71 BN71B4	293
9.1	354	0.9	150.7	9600	A303_150.7 S1 M1SD4	288	A303_150.7 P71 BN71B4	289
9.1	354	1.7	150.6	12000	A353_150.6 S1 M1SD4	292	A353_150.6 P71 BN71B4	293



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n ₂ min-1	M ₂ Nm	S	i	R _{n2} N				
9.3	345	2.5	146.9	15000	A413_146.9 S1 M1SD4	296	A413_146.9 P71 BN71B4	297
10.0	323	1.0	137.4	9600	A303_137.4 S1 M1SD4	288	A303_137.4 P71 BN71B4	289
10.0	320	1.8	136.3	12000	A353_136.3 S1 M1SD4	292	A353_136.3 P71 BN71B4	293
11.4	283	1.1	120.5	9600	A303_120.5 S1 M1SD4	288	A303_120.5 P71 BN71B4	289
11.7	275	2.0	116.9	12000	A353_116.9 S1 M1SD4	292	A353_116.9 P71 BN71B4	293
11.8	272	3.1	115.9	15000	A413_115.9 S1 M1SD4	296	A413_115.9 P71 BN71B4	297
12.6	256	1.2	109.1	9600	A303_109.1 S1 M1SD4	288	A303_109.1 P71 BN71B4	289
13.0	248	2.1	105.5	12000	A353_105.5 S1 M1SD4	292	A353_105.5 P71 BN71B4	293
14.1	237	1.3	97.5	9600			A302_97.5 P71 BN71B4	289
14.3	232	2.3	95.6	12000	A352_95.6 S1 M1SD4	292	A352_95.6 P71 BN71B4	293
15.8	210	1.5	86.7	9600			A302_86.7 P71 BN71B4	289
16.6	200	3.0	82.5	12000	A352_82.5 S1 M1SD4	292	A352_82.5 P71 BN71B4	293
17.2	194	1.1	79.9	6200			A202_79.9 P71 BN71B4	285
17.9	186	1.9	76.5	9600	A302_76.5 S1 M1SD4	288	A302_76.5 P71 BN71B4	289
18.4	180	3.3	74.3	12000	A352_74.3 S1 M1SD4	292	A352_74.3 P71 BN71B4	293
19.3	172	1.2	71.0	6200			A202_71.0 P71 BN71B4	285
20.7	160	2.4	66.0	9350	A302_66.0 S1 M1SD4	288	A302_66.0 P71 BN71B4	289
20.8	160	0.9	65.9	5500			A102_65.9 P71 BN71B4	281
21.7	153	1.6	63.1	6200	A202_63.1 S1 M1SD4	284	A202_63.1 P71 BN71B4	285
23.1	144	2.8	59.4	9080	A302_59.4 S1 M1SD4	288	A302_59.4 P71 BN71B4	289
23.4	142	1.1	58.6	5500			A102_58.6 P71 BN71B4	281
25.5	130	1.9	53.7	6090	A202_53.7 S1 M1SD4	284	A202_53.7 P71 BN71B4	285
26.0	128	3.2	52.7	8790	A302_52.7 S1 M1SD4	288	A302_52.7 P71 BN71B4	289
26.7	124	1.2	51.3	5490	A102_51.3 S1 M1SD4	280	A102_51.3 P71 BN71B4	281
28.4	117	2.1	48.3	5940	A202_48.3 S1 M1SD4	284	A202_48.3 P71 BN71B4	285
28.4	117	3.5	48.3	8580	A302_48.3 S1 M1SD4	288	A302_48.3 P71 BN71B4	289
30	110	0.9	45.4	3060	A052_45.4 S1 M1SD4	277	A052_45.4 P71 BN71B4	277
30	110	1.4	45.4	5350	A102_45.4 S1 M1SD4	280	A102_45.4 P71 BN71B4	281
32	105	2.4	43.2	5780	A202_43.2 S1 M1SD4	284	A202_43.2 P71 BN71B4	285
34	99	1.0	40.9	3020	A052_40.9 S1 M1SD4	277	A052_40.9 P71 BN71B4	277
34	99	1.5	40.9	5500	A102_40.9 S1 M1SD4	280	A102_40.9 P71 BN71B4	281
35	96	2.6	39.6	5650	A202_39.6 S1 M1SD4	284	A202_39.6 P71 BN71B4	285
39	86	2.9	35.4	5480	A202_35.4 S1 M1SD4	284	A202_35.4 P71 BN71B4	285
39	85	1.2	35.1	2950	A052_35.1 S1 M1SD4	277	A052_35.1 P71 BN71B4	277
39	85	1.8	35.1	5040	A102_35.1 S1 M1SD4	280	A102_35.1 P71 BN71B4	281
43	78	1.3	32.2	2900	A052_32.2 S1 M1SD4	277	A052_32.2 P71 BN71B4	277
43	78	1.9	32.2	5500	A102_32.2 S1 M1SD4	280	A102_32.2 P71 BN71B4	281
44	76	3.3	31.3	5310	A202_31.3 S1 M1SD4	284	A202_31.3 P71 BN71B4	285
47	71	3.5	29.2	5210	A202_29.2 S1 M1SD4	284	A202_29.2 P71 BN71B4	285
48	69	1.4	28.6	2840	A052_28.6 S1 M1SD4	277	A052_28.6 P71 BN71B4	277
48	69	2.2	28.6	4790	A102_28.6 S1 M1SD4	280	A102_28.6 P71 BN71B4	281
54	62	1.6	25.5	2770	A052_25.5 S1 M1SD4	277	A052_25.5 P71 BN71B4	277
54	62	2.4	25.5	5500	A102_25.5 S1 M1SD4	280	A102_25.5 P71 BN71B4	281
58	58	1.7	23.8	2730	A052_23.8 S1 M1SD4	277	A052_23.8 P71 BN71B4	277
58	58	2.6	23.8	4570	A102_23.8 S1 M1SD4	280	A102_23.8 P71 BN71B4	281
64	52	1.9	21.4	2670	A052_21.4 S1 M1SD4	277	A052_21.4 P71 BN71B4	277
64	52	2.9	21.4	5270	A102_21.4 S1 M1SD4	280	A102_21.4 P71 BN71B4	281
74	45	2.2	18.6	2590	A052_18.6 S1 M1SD4	277	A052_18.6 P71 BN71B4	277
74	45	3.3	18.6	4270	A102_18.6 S1 M1SD4	280	A102_18.6 P71 BN71B4	281
83	40	2.5	16.4	2510	A052_16.4 S1 M1SD4	277	A052_16.4 P71 BN71B4	277
98	34	3.0	13.9	2410	A052_13.9 S1 M1SD4	277	A052_13.9 P71 BN71B4	277

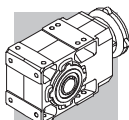


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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC 	
111	30	3.3	12.3	2350	A052_12.3 S1 M1SD4	277	A052_12.3 P71 BN71B4	277
130	26	3.9	10.6	2240	A052_10.6 S1 M1SD4	277	A052_10.6 P71 BN71B4	277
142	23	4.3	9.6	2190	A052_9.6 S1 M1SD4	277	A052_9.6 P71 BN71B4	277
161	21	4.8	8.5	2120	A052_8.5 S1 M1SD4	277	A052_8.5 P71 BN71B4	277
190	17.5	5.7	7.2	2030	A052_7.2 S1 M1SD4	277	A052_7.2 P71 BN71B4	277
216	15.4	6.5	6.3	1950	A052_6.3 S1 M1SD4	277	A052_6.3 P71 BN71B4	277
228	14.6	6.8	12.3	1920	A052_12.3 S05 M05C2	277	A052_12.3 P71 BN71A2	277
251	13.3	7.2	5.5	1870	A052_5.5 S1 M1SD4	277	A052_5.5 P71 BN71B4	277
265	12.5	6.4	10.6	1830	A052_10.6 S05 M05C2	277	A052_10.6 P71 BN71A2	277
291	11.4	8.3	9.6	1790	A052_9.6 S05 M05C2	277	A052_9.6 P71 BN71A2	277
331	10.0	9.0	8.5	1720	A052_8.5 S05 M05C2	277	A052_8.5 P71 BN71A2	277
388	8.6	9.9	7.2	1640	A052_7.2 S05 M05C2	277	A052_7.2 P71 BN71A2	277
445	7.5	10.7	6.3	1570	A052_6.3 S05 M05C2	277	A052_6.3 P71 BN71A2	277
512	6.5	11.6	5.5	1500	A052_5.5 S05 M05C2	277		

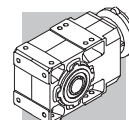
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC 	
0.56	8299	1.7	1632	75000	A904_1632 S2 M2SA6	318	A904_1632 P80 BN80B6	319
0.64	7310	1.1	1438	65000	A804_1438 S2 M2SA6	315	A804_1438 P80 BN80B6	316
0.75	6213	2.3	1222	75000	A904_1222 S2 M2SA6	318	A904_1222 P80 BN80B6	319
0.80	5813	0.9	1715	50000	A704_1715 S1 M1LA4	312	A704_1715 P80 BN80A4	313
0.85	5532	2.5	1632	75000	A904_1632 S1 M1LA4	318	A904_1632 P80 BN80A4	319
0.87	5365	0.9	1583	50000	A704_1583 S1 M1LA4	312	A704_1583 P80 BN80A4	313
0.89	5279	1.5	1558	65000	A804_1558 S1 M1LA4	315	A804_1558 P80 BN80A4	316
0.92	5070	2.8	1507	75000	A904_1507 S1 M1LA4	318	A904_1507 P80 BN80A4	319
0.96	4873	1.6	1438	65000	A804_1438 S1 M1LA4	315	A804_1438 P80 BN80A4	316
1.0	4561	1.1	1346	50000	A704_1346 S1 M1LA4	312	A704_1346 P80 BN80A4	313
1.0	4541	1.8	1340	65000	A804_1340 S1 M1LA4	315	A804_1340 P80 BN80A4	316
1.0	4455	3.1	1324	75000	A904_1324 S1 M1LA4	318	A904_1324 P80 BN80A4	319
1.1	4211	1.2	1242	50000	A704_1242 S1 M1LA4	312	A704_1242 P80 BN80A4	313
1.1	4192	1.9	1237	65000	A804_1237 S1 M1LA4	315	A804_1237 P80 BN80A4	316
1.1	4112	3.4	1222	75000	A904_1222 S1 M1LA4	318	A904_1222 P80 BN80A4	319
1.2	3937	1.3	1161	50000	A704_1161 S1 M1LA4	312	A704_1161 P80 BN80A4	313
1.3	3677	2.2	1085	65000	A804_1085 S1 M1LA4	315	A804_1085 P80 BN80A4	316
1.3	3634	1.4	1072	50000	A704_1072 S1 M1LA4	312	A704_1072 P80 BN80A4	313
1.4	3394	2.4	1001	65000	A804_1001 S1 M1LA4	315	A804_1001 P80 BN80A4	316
1.5	3140	1.6	926.5	50000	A704_926.5 S1 M1LA4	312	A704_926.5 P80 BN80A4	313
1.5	3046	2.6	898.7	65000	A804_898.7 S1 M1LA4	315	A804_898.7 P80 BN80A4	316
1.6	2899	1.7	855.3	50000	A704_855.3 S1 M1LA4	312	A704_855.3 P80 BN80A4	313
1.7	2811	2.8	829.5	65000	A804_829.5 S1 M1LA4	315	A804_829.5 P80 BN80A4	316
1.8	2589	1.9	763.9	50000	A704_763.9 S1 M1LA4	312	A704_763.9 P80 BN80A4	313
1.8	2583	3.1	762.1	65000	A804_762.1 S1 M1LA4	315	A804_762.1 P80 BN80A4	316
1.8	2560	1.1	755.4	30000	A604_755.4 S1 M1LA4	308	A604_755.4 P80 BN80A4	309
2.0	2390	2.1	705.1	50000	A704_705.1 S1 M1LA4	312	A704_705.1 P80 BN80A4	313
2.0	2384	3.4	703.5	65000	A804_703.5 S1 M1LA4	315	A804_703.5 P80 BN80A4	316
2.0	2363	1.2	697.3	30000	A604_697.3 S1 M1LA4	308	A604_697.3 P80 BN80A4	309
2.1	2185	2.3	644.6	50000	A704_644.6 S1 M1LA4	312	A704_644.6 P80 BN80A4	313



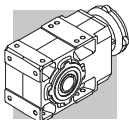
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n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC	
2.2	2151	1.3	634.6	30000	A604_634.6 S1 M1LA4	308	A604_634.6 P80 BN80A4	309
2.3	2017	2.5	595.0	50000	A704_595.0 S1 M1LA4	312	A704_595.0 P80 BN80A4	313
2.4	1985	1.4	585.8	30000	A604_585.8 S1 M1LA4	308	A604_585.8 P80 BN80A4	309
2.5	1837	1.5	542.0	30000	A604_542.0 S1 M1LA4	308	A604_542.0 P80 BN80A4	309
2.7	1747	2.9	515.4	50000	A704_515.4 S1 M1LA4	312	A704_515.4 P80 BN80A4	313
2.8	1696	1.7	500.3	30000	A604_500.3 S1 M1LA4	308	A604_500.3 P80 BN80A4	309
2.9	1632	0.9	481.6	20000	A504_481.6 S1 M1LA4	300	A504_481.6 P80 BN80A4	301
2.9	1612	3.1	475.8	50000	A704_475.8 S1 M1LA4	312	A704_475.8 P80 BN80A4	313
3.1	1514	1.0	446.8	20000	A504_446.8 S1 M1LA4	300	A504_446.8 P80 BN80A4	301
3.1	1486	1.9	438.4	30000	A604_438.4 S1 M1LA4	308	A604_438.4 P80 BN80A4	309
3.4	1378	1.1	406.4	20000	A504_406.4 S1 M1LA4	300	A504_406.4 P80 BN80A4	301
3.4	1372	2.0	404.7	30000	A604_404.7 S1 M1LA4	308	A604_404.7 P80 BN80A4	309
3.8	1239	1.2	365.6	20000	A504_365.6 S1 M1LA4	300	A504_365.6 P80 BN80A4	301
3.9	1190	2.4	351.2	30000	A604_351.2 S1 M1LA4	308	A604_351.2 P80 BN80A4	309
4.1	1127	1.3	332.6	20000	A504_332.6 S1 M1LA4	300	A504_332.6 P80 BN80A4	301
4.3	1099	2.5	324.2	30000	A604_324.2 S1 M1LA4	308	A604_324.2 P80 BN80A4	309
4.8	972	1.5	286.8	20000	A504_286.8 S1 M1LA4	300	A504_286.8 P80 BN80A4	301
4.8	970	2.9	286.3	30000	A604_286.3 S1 M1LA4	308	A604_286.3 P80 BN80A4	309
5.2	896	3.1	264.3	30000	A604_264.3 S1 M1LA4	308	A604_264.3 P80 BN80A4	309
5.3	910	0.9	262.5	15000	A413_262.5 S1 M1LA4	296	A413_262.5 P80 BN80A4	297
5.3	884	1.7	260.9	20000	A504_260.9 S1 M1LA4	300	A504_260.9 P80 BN80A4	301
5.7	834	1.0	240.6	15000	A413_240.6 S1 M1LA4	296	A413_240.6 P80 BN80A4	297
5.9	786	1.9	232.0	20000	A504_232.0 S1 M1LA4	300	A504_232.0 P80 BN80A4	301
6.3	753	1.1	217.4	15000	A413_217.4 S1 M1LA4	296	A413_217.4 P80 BN80A4	297
6.5	715	2.1	211.0	20000	A504_211.0 S1 M1LA4	300	A504_211.0 P80 BN80A4	301
7.0	685	1.2	197.5	15000	A413_197.5 S1 M1LA4	296	A413_197.5 P80 BN80A4	297
7.1	673	3.0	194.2	30000	A553_194.2 S1 M1LA4	304	A553_194.2 P80 BN80A4	305
7.2	660	2.3	190.6	20000	A503_190.6 S1 M1LA4	300	A503_190.6 P80 BN80A4	301
7.3	653	0.9	188.3	12000	A353_188.3 S1 M1LA4	292	A353_188.3 P80 BN80A4	293
7.5	639	1.3	184.4	15000	A413_184.4 S1 M1LA4	296	A413_184.4 P80 BN80A4	297
7.9	607	3.3	175.0	30000	A553_175.0 S1 M1LA4	304	A553_175.0 P80 BN80A4	305
8.0	601	2.5	173.4	20000	A503_173.4 S1 M1LA4	300	A503_173.4 P80 BN80A4	301
8.0	595	1.0	171.8	12000	A353_171.8 S1 M1LA4	292	A353_171.8 P80 BN80A4	293
9.0	532	2.8	154.6	20000	A503_154.6 S1 M1LA4	300	A503_154.6 P80 BN80A4	301
9.2	522	1.1	150.6	12000	A353_150.6 S1 M1LA4	292	A353_150.6 P80 BN80A4	293
9.4	509	1.7	146.9	15000	A413_146.9 S1 M1LA4	296	A413_146.9 P80 BN80A4	297
9.9	484	3.1	140.6	20000	A503_140.6 S1 M1LA4	300	A503_140.6 P80 BN80A4	301
10.1	472	1.2	136.3	12000	A353_136.3 S1 M1LA4	292	A353_136.3 P80 BN80A4	293
10.7	446	3.4	129.7	20000	A503_129.7 S1 M1LA4	300	A503_129.7 P80 BN80A4	301
11.8	405	1.4	116.9	12000	A353_116.9 S1 M1LA4	292	A353_116.9 P80 BN80A4	293
11.9	402	2.1	115.9	15000	A413_115.9 S1 M1LA4	296	A413_115.9 P80 BN80A4	297
13.1	366	1.4	105.5	12000	A353_105.5 S1 M1LA4	292	A353_105.5 P80 BN80A4	293
14.2	349	0.9	97.5	9600			A302_97.5 P80 BN80A4	289
14.4	342	1.6	95.6	12000	A352_95.6 S1 M1LA4	292	A352_95.6 P80 BN80A4	293
14.9	321	2.5	92.8	15000	A413_92.8 S1 M1LA4	296	A413_92.8 P80 BN80A4	297
15.9	310	1.0	86.7	9420			A302_86.7 P80 BN80A4	289
16.7	295	2.0	82.5	12000	A352_82.5 S1 M1LA4	292	A352_82.5 P80 BN80A4	293
17.4	284	3.0	79.2	15000	A412_79.2 S1 M1LA4	296	A412_79.2 P80 BN80A4	297
18.0	274	1.3	76.5	9180	A302_76.5 S1 M1LA4	288	A302_76.5 P80 BN80A4	289
18.6	266	2.3	74.3	12000	A352_74.3 S1 M1LA4	292	A352_74.3 P80 BN80A4	293
19.4	255	3.3	71.3	15000	A412_71.3 S1 M1LA4	296	A412_71.3 P80 BN80A4	297



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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC 	
20.9	236	1.6	66.0	8880	A302_66.0 S1 M1LA4	288	A302_66.0 P80 BN80A4	289
21.0	236	2.5	65.8	12000	A352_65.8 S1 M1LA4	292	A352_65.8 P80 BN80A4	293
21.9	226	1.1	63.1	5840	A202_63.1 S1 M1LA4	284	A202_63.1 P80 BN80A4	285
22.9	216	2.8	60.4	12000	A352_60.4 S1 M1LA4	292	A352_60.4 P80 BN80A4	293
23.2	213	1.9	59.4	8660	A302_59.4 S1 M1LA4	288	A302_59.4 P80 BN80A4	289
25.4	194	3.1	54.3	12000	A352_54.3 S1 M1LA4	292	A352_54.3 P80 BN80A4	293
25.7	192	1.3	53.7	5670	A202_53.7 S1 M1LA4	284	A202_53.7 P80 BN80A4	285
26.2	189	2.2	52.7	8410	A302_52.7 S1 M1LA4	288	A302_52.7 P80 BN80A4	289
28.1	176	3.4	49.1	12000	A352_49.1 S1 M1LA4	292	A352_49.1 P80 BN80A4	293
28.6	173	1.4	48.3	5560	A202_48.3 S1 M1LA4	284	A202_48.3 P80 BN80A4	285
28.6	173	2.4	48.3	8230	A302_48.3 S1 M1LA4	288	A302_48.3 P80 BN80A4	289
30	163	0.9	45.4	4910	A102_45.4 S1 M1LA4	280	A102_45.4 P80 BN80A4	281
32	155	2.6	43.4	8010	A302_43.4 S1 M1LA4	288	A302_43.4 P80 BN80A4	289
32	155	1.6	43.2	5440	A202_43.2 S1 M1LA4	284	A202_43.2 P80 BN80A4	285
34	146	1.0	40.9	5500	A102_40.9 S1 M1LA4	280	A102_40.9 P80 BN80A4	281
35	142	1.8	39.6	5340	A202_39.6 S1 M1LA4	284	A202_39.6 P80 BN80A4	285
35	141	2.9	39.3	7800	A302_39.3 S1 M1LA4	288	A302_39.3 P80 BN80A4	289
38	131	3.1	36.6	7660	A302_36.6 S1 M1LA4	288	A302_36.6 P80 BN80A4	289
39	127	2.0	35.4	5200	A202_35.4 S1 M1LA4	284	A202_35.4 P80 BN80A4	285
39	126	1.2	35.1	4700	A102_35.1 S1 M1LA4	280	A102_35.1 P80 BN80A4	281
41	120	3.4	33.4	7480	A302_33.4 S1 M1LA4	288	A302_33.4 P80 BN80A4	289
43	115	1.3	32.2	5490	A102_32.2 S1 M1LA4	280	A102_32.2 P80 BN80A4	281
44	112	2.2	31.3	5060	A202_31.3 S1 M1LA4	284	A202_31.3 P80 BN80A4	285
47	105	2.4	29.2	4970	A202_29.2 S1 M1LA4	284	A202_29.2 P80 BN80A4	285
48	102	1.0	28.6	2550	A052_28.6 S1 M1LA4	277	A052_28.6 P80 BN80A4	277
48	102	1.5	28.6	4510	A102_28.6 S1 M1LA4	280	A102_28.6 P80 BN80A4	281
52	95	2.6	26.5	4850	A202_26.5 S1 M1LA4	284	A202_26.5 P80 BN80A4	285
54	91	1.1	25.5	2510	A052_25.5 S1 M1LA4	277	A052_25.5 P80 BN80A4	277
54	91	1.6	25.5	5230	A102_25.5 S1 M1LA4	280	A102_25.5 P80 BN80A4	281
58	85	1.2	23.8	2490	A052_23.8 S1 M1LA4	277	A052_23.8 P80 BN80A4	277
58	85	1.8	23.8	4330	A102_23.8 S1 M1LA4	280	A102_23.8 P80 BN80A4	281
60	83	3.0	23.1	4690	A202_23.1 S1 M1LA4	284	A202_23.1 P80 BN80A4	285
65	76	1.3	21.4	2450	A052_21.4 S1 M1LA4	277	A052_21.4 P80 BN80A4	277
65	76	2.0	21.4	5020	A102_21.4 S1 M1LA4	280	A102_21.4 P80 BN80A4	281
65	76	3.3	21.2	4590	A202_21.2 S1 M1LA4	284	A202_21.2 P80 BN80A4	285
74	66	1.5	18.6	2400	A052_18.6 S1 M1LA4	277	A052_18.6 P80 BN80A4	277
74	66	2.3	18.6	4090	A102_18.6 S1 M1LA4	280	A102_18.6 P80 BN80A4	281
84	59	1.7	16.4	2340	A052_16.4 S1 M1LA4	277	A052_16.4 P80 BN80A4	277
84	59	2.5	16.4	4710	A102_16.4 S1 M1LA4	280	A102_16.4 P80 BN80A4	281
99	50	2.0	13.9	2270	A052_13.9 S1 M1LA4	277	A052_13.9 P80 BN80A4	277
99	50	3.0	13.9	3800	A102_13.9 S1 M1LA4	280	A102_13.9 P80 BN80A4	281
112	44	2.3	12.3	2220	A052_12.3 S1 M1LA4	277	A052_12.3 P80 BN80A4	277
112	44	3.2	12.3	3670	A102_12.3 S1 M1LA4	280	A102_12.3 P80 BN80A4	281
131	38	2.6	10.6	2130	A052_10.6 S1 M1LA4	277	A052_10.6 P80 BN80A4	277
144	34	2.9	9.6	2100	A052_9.6 S1 M1LA4	277	A052_9.6 P80 BN80A4	277
162	30	3.3	8.5	2030	A052_8.5 S1 M1LA4	277	A052_8.5 P80 BN80A4	277
171	29	3.1	16.4	2000	A052_16.4 S1 M1SD2	277	A052_16.4 P71 BN71B2	277
191	26	3.9	7.2	1950	A052_7.2 S1 M1LA4	277	A052_7.2 P80 BN80A4	277
218	23	4.4	6.3	1880	A052_6.3 S1 M1LA4	277	A052_6.3 P80 BN80A4	277
229	22	4.6	12.3	1860	A052_12.3 S1 M1SD2	277	A052_12.3 P71 BN71B2	277
252	19.6	4.9	5.5	1810	A052_5.5 S1 M1LA4	277	A052_5.5 P80 BN80A4	277

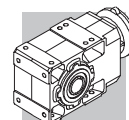


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n ₂ min-1	M ₂ Nm	S	i	R _{n2} N				
267	18.5	4.3	10.6	1780	A052_10.6 S1 M1SD2	277	A052_10.6 P71 BN71B2	277
293	16.8	5.6	9.6	1740	A052_9.6 S1 M1SD2	277	A052_9.6 P71 BN71B2	277
331	14.9	6.0	8.5	1680	A052_8.5 S1 M1SD2	277	A052_8.5 P71 BN71B2	277
391	12.6	6.7	7.2	1600	A052_7.2 S1 M1SD2	277	A052_7.2 P71 BN71B2	277
445	11.1	7.2	6.3	1540	A052_6.3 S1 M1SD2	277	A052_6.3 P71 BN71B2	277
516	9.6	7.8	5.5	1480	A052_5.5 S1 M1SD2	277	A052_5.5 P71 BN71B2	277

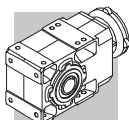
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0.56	11316	1.2	1632	75000	A904_1632 S2 M2SB6	318	A904_1632 P90 BN90S6	319
0.61	10446	1.3	1507	75000	A904_1507 S2 M2SB6	318	A904_1507 P90 BN90S6	319
0.69	9179	1.5	1324	75000	A904_1324 S2 M2SB6	318	A904_1324 P90 BN90S6	319
0.75	8473	1.7	1222	75000	A904_1222 S2 M2SB6	318	A904_1222 P90 BN90S6	319
0.86	7436	1.9	1632	75000	A904_1632 S2 M2SA4	318	A904_1632 P80 BN80B4	319
0.90	7096	1.1	1558	65000	A804_1558 S2 M2SA4	315	A804_1558 P80 BN80B4	316
0.93	6864	2.0	1507	75000	A904_1507 S2 M2SA4	318	A904_1507 P80 BN80B4	319
0.97	6550	1.2	1438	65000	A804_1438 S2 M2SA4	315	A804_1438 P80 BN80B4	316
1.0	6104	1.3	1340	65000	A804_1340 S2 M2SA4	315	A804_1340 P80 BN80B4	316
1.1	6032	2.3	1324	75000	A904_1324 S2 M2SA4	318	A904_1324 P80 BN80B4	319
1.1	5660	0.9	1242	50000	A704_1242 S2 M2SA4	312	A704_1242 P80 BN80B4	313
1.1	5635	1.4	1237	65000	A804_1237 S2 M2SA4	315	A804_1237 P80 BN80B4	316
1.1	5568	2.5	1222	75000	A904_1222 S2 M2SA4	318	A904_1222 P80 BN80B4	319
1.2	5291	0.9	1161	50000	A704_1161 S2 M2SA4	312	A704_1161 P80 BN80B4	313
1.3	5060	2.8	1111	75000	A904_1111 S2 M2SA4	318	A904_1111 P80 BN80B4	319
1.3	4942	1.6	1085	65000	A804_1085 S2 M2SA4	315	A804_1085 P80 BN80B4	316
1.3	4884	1.0	1072	50000	A704_1072 S2 M2SA4	312	A704_1072 P80 BN80B4	313
1.4	4670	3.0	1025	75000	A904_1025 S2 M2SA4	318	A904_1025 P80 BN80B4	319
1.4	4562	1.8	1001	65000	A804_1001 S2 M2SA4	315	A804_1001 P80 BN80B4	316
1.5	4270	3.3	937.2	75000	A904_937.2 S2 M2SA4	318	A904_937.2 P80 BN80B4	319
1.5	4221	1.2	926.5	50000	A704_926.5 S2 M2SA4	312	A704_926.5 P80 BN80B4	313
1.6	4094	2.0	898.7	65000	A804_898.7 S2 M2SA4	315	A804_898.7 P80 BN80B4	316
1.6	3896	1.3	855.3	50000	A704_855.3 S2 M2SA4	312	A704_855.3 P80 BN80B4	313
1.7	3779	2.1	829.5	65000	A804_829.5 S2 M2SA4	315	A804_829.5 P80 BN80B4	316
1.8	3480	1.4	763.9	50000	A704_763.9 S2 M2SA4	312	A704_763.9 P80 BN80B4	313
1.8	3472	2.3	762.1	65000	A804_762.1 S2 M2SA4	315	A804_762.1 P80 BN80B4	316
2.0	3212	1.6	705.1	50000	A704_705.1 S2 M2SA4	312	A704_705.1 P80 BN80B4	313
2.0	3205	2.5	703.5	65000	A804_703.5 S2 M2SA4	315	A804_703.5 P80 BN80B4	316
2.0	3177	0.9	697.3	30000	A604_697.3 S2 M2SA4	308	A604_697.3 P80 BN80B4	309
2.2	2937	1.7	644.6	50000	A704_644.6 S2 M2SA4	312	A704_644.6 P80 BN80B4	313
2.2	2891	1.0	634.6	30000	A604_634.6 S2 M2SA4	308	A604_634.6 P80 BN80B4	309
2.3	2766	2.9	607.2	65000	A804_607.2 S2 M2SA4	315	A804_607.2 P80 BN80B4	316
2.4	2711	1.8	595.0	50000	A704_595.0 S2 M2SA4	312	A704_595.0 P80 BN80B4	313
2.4	2669	1.0	585.8	30000	A604_585.8 S2 M2SA4	308	A604_585.8 P80 BN80B4	309
2.5	2553	3.1	560.5	65000	A804_560.5 S2 M2SA4	315	A804_560.5 P80 BN80B4	316
2.6	2469	1.1	542.0	30000	A604_542.0 S2 M2SA4	308	A604_542.0 P80 BN80B4	309
2.7	2348	2.1	515.4	50000	A704_515.4 S2 M2SA4	312	A704_515.4 P80 BN80B4	313
2.8	2279	1.2	500.3	30000	A604_500.3 S2 M2SA4	308	A604_500.3 P80 BN80B4	309



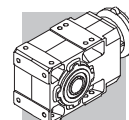
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n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
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3.2	1997	1.4	438.4	30000	A604_438.4 S2 M2SA4	308	A604_438.4 P80 BN80B4	309
3.5	1844	1.5	404.7	30000	A604_404.7 S2 M2SA4	308	A604_404.7 P80 BN80B4	309
3.5	1823	2.7	400.2	50000	A704_400.2 S2 M2SA4	312	A704_400.2 P80 BN80B4	313
3.8	1683	3.0	369.4	50000	A704_369.4 S2 M2SA4	312	A704_369.4 P80 BN80B4	313
3.8	1666	0.9	365.6	20000	A504_365.6 S2 M2SA4	300	A504_365.6 P80 BN80B4	301
4.0	1600	1.8	351.2	30000	A604_351.2 S2 M2SA4	308	A604_351.2 P80 BN80B4	309
4.2	1515	1.0	332.6	20000	A504_332.6 S2 M2SA4	300	A504_332.6 P80 BN80B4	301
4.3	1477	1.9	324.2	30000	A604_324.2 S2 M2SA4	308	A604_324.2 P80 BN80B4	309
4.4	1441	3.5	316.4	50000	A704_316.4 S2 M2SA4	312	A704_316.4 P80 BN80B4	313
4.9	1307	1.1	286.8	20000	A504_286.8 S2 M2SA4	300	A504_286.8 P80 BN80B4	301
4.9	1304	2.1	286.3	30000	A604_286.3 S2 M2SA4	308	A604_286.3 P80 BN80B4	309
5.3	1204	2.3	264.3	30000	A604_264.3 S2 M2SA4	308	A604_264.3 P80 BN80B4	309
5.4	1189	1.3	260.9	20000	A504_260.9 S2 M2SA4	300	A504_260.9 P80 BN80B4	301
6.0	1057	1.4	232.0	20000	A504_232.0 S2 M2SA4	300	A504_232.0 P80 BN80B4	301
6.2	1030	2.7	226.1	30000	A604_226.1 S2 M2SA4	308	A604_226.1 P80 BN80B4	309
6.6	961	1.6	211.0	20000	A504_211.0 S2 M2SA4	300	A504_211.0 P80 BN80B4	301
6.7	951	2.9	208.7	30000	A604_208.7 S2 M2SA4	308	A604_208.7 P80 BN80B4	309
7.1	920	0.9	197.5	15000	A413_197.5 S2 M2SA4	296	A413_197.5 P80 BN80B4	297
7.2	905	2.2	194.2	30000	A553_194.2 S2 M2SA4	304	A553_194.2 P80 BN80B4	305
7.3	888	1.7	190.6	20000	A503_190.6 S2 M2SA4	300	A503_190.6 P80 BN80B4	301
7.5	865	3.2	185.8	30000	A603_185.8 S2 M2SA4	308	A603_185.8 P80 BN80B4	309
7.6	859	1.0	184.4	15000	A413_184.4 S2 M2SA4	296	A413_184.4 P80 BN80B4	297
8.0	815	2.5	175.0	30000	A553_175.0 S2 M2SA4	304	A553_175.0 P80 BN80B4	305
8.1	808	1.9	173.4	20000	A503_173.4 S2 M2SA4	300	A503_173.4 P80 BN80B4	301
8.2	799	3.5	171.5	30000	A603_171.5 S2 M2SA4	308	A603_171.5 P80 BN80B4	309
8.7	747	2.7	160.4	30000	A553_160.4 S2 M2SA4	304	A553_160.4 P80 BN80B4	305
9.1	720	2.1	154.6	20000	A503_154.6 S2 M2SA4	300	A503_154.6 P80 BN80B4	301
9.5	684	1.2	146.9	15000	A413_146.9 S2 M2SA4	296	A413_146.9 P80 BN80B4	297
9.5	684	2.9	146.8	30000	A553_146.8 S2 M2SA4	304	A553_146.8 P80 BN80B4	305
10.0	655	2.3	140.6	20000	A503_140.6 S2 M2SA4	300	A503_140.6 P80 BN80B4	301
10.3	635	0.9	136.3	12000	A353_136.3 S2 M2SA4	292	A353_136.3 P80 BN80B4	293
10.5	618	3.2	132.7	30000	A553_132.7 S2 M2SA4	304	A553_132.7 P80 BN80B4	305
10.8	604	2.5	129.7	20000	A503_129.7 S2 M2SA4	300	A503_129.7 P80 BN80B4	301
11.3	577	3.5	123.9	30000	A553_123.9 S2 M2SA4	304	A553_123.9 P80 BN80B4	305
11.9	549	2.7	118.0	20000	A503_118.0 S2 M2SA4	300	A503_118.0 P80 BN80B4	301
12.0	545	1.0	116.9	12000	A353_116.9 S2 M2SA4	292	A353_116.9 P80 BN80B4	293
12.1	540	1.6	115.9	15000	A413_115.9 S2 M2SA4	296	A413_115.9 P80 BN80B4	297
12.8	510	2.9	109.4	20000	A503_109.4 S2 M2SA4	300	A503_109.4 P80 BN80B4	301
13.3	492	1.1	105.5	12000	A353_105.5 S2 M2SA4	292	A353_105.5 P80 BN80B4	293
14.1	464	3.2	99.5	20000	A503_99.5 S2 M2SA4	300	A503_99.5 P80 BN80B4	301
14.6	460	1.2	95.6	12000	A352_95.6 S2 M2SA4	292	A352_95.6 P80 BN80B4	293
15.1	432	1.9	92.8	15000	A413_92.8 S2 M2SA4	296	A413_92.8 P80 BN80B4	297
17.0	397	1.5	82.5	12000	A352_82.5 S2 M2SA4	292	A352_82.5 P80 BN80B4	293
17.7	381	2.2	79.2	15000	A412_79.2 S2 M2SA4	296	A412_79.2 P80 BN80B4	297
18.3	368	1.0	76.5	8580	A302_76.5 S2 M2SA4	288	A302_76.5 P80 BN80B4	289
18.8	357	1.7	74.3	12000	A352_74.3 S2 M2SA4	292	A352_74.3 P80 BN80B4	293
19.6	343	2.5	71.3	15000	A412_71.3 S2 M2SA4	296	A412_71.3 P80 BN80B4	297
21.2	318	1.2	66.0	8360	A302_66.0 S2 M2SA4	288	A302_66.0 P80 BN80B4	289
21.3	317	1.9	65.8	12000	A352_65.8 S2 M2SA4	292	A352_65.8 P80 BN80B4	293
21.8	309	2.8	64.2	15000	A412_64.2 S2 M2SA4	296	A412_64.2 P80 BN80B4	297



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n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
23.2	290	2.1	60.4	12000	A352_60.4 S2 M2SA4	292	A352_60.4 P80 BN80B4	293
23.6	286	1.4	59.4	8190	A302_59.4 S2 M2SA4	288	A302_59.4 P80 BN80B4	289
23.8	283	3.0	58.8	15000	A412_58.8 S2 M2SA4	296	A412_58.8 P80 BN80B4	297
25.8	261	2.3	54.3	12000	A352_54.3 S2 M2SA4	292	A352_54.3 P80 BN80B4	293
26.1	258	1.0	53.7	5210	A202_53.7 S2 M2SA4	284	A202_53.7 P80 BN80B4	285
26.3	256	3.3	53.1	15000	A412_53.1 S2 M2SA4	296	A412_53.1 P80 BN80B4	297
26.6	253	1.6	52.7	7990	A302_52.7 S2 M2SA4	288	A302_52.7 P80 BN80B4	289
28.5	236	2.5	49.1	12000	A352_49.1 S2 M2SA4	292	A352_49.1 P80 BN80B4	293
29.0	232	1.1	48.3	5140	A202_48.3 S2 M2SA4	284	A202_48.3 P80 BN80B4	285
29.0	232	1.8	48.3	7840	A302_48.3 S2 M2SA4	288	A302_48.3 P80 BN80B4	289
31	220	2.7	45.8	12000	A352_45.8 S2 M2SA4	292	A352_45.8 P80 BN80B4	293
32	209	2.0	43.4	7660	A302_43.4 S2 M2SA4	288	A302_43.4 P80 BN80B4	289
32	208	1.2	43.2	5060	A202_43.2 S2 M2SA4	284	A202_43.2 P80 BN80B4	285
34	201	3.0	41.8	11900	A352_41.8 S2 M2SA4	292	A352_41.8 P80 BN80B4	293
35	191	1.3	39.6	4990	A202_39.6 S2 M2SA4	284	A202_39.6 P80 BN80B4	285
36	189	2.2	39.3	7480	A302_39.3 S2 M2SA4	288	A302_39.3 P80 BN80B4	289
38	176	2.3	36.6	7360	A302_36.6 S2 M2SA4	288	A302_36.6 P80 BN80B4	289
38	176	3.4	36.6	11500	A352_36.6 S2 M2SA4	292	A352_36.6 P80 BN80B4	293
40	170	1.5	35.4	4890	A202_35.4 S2 M2SA4	284	A202_35.4 P80 BN80B4	285
40	169	0.9	35.1	4320	A102_35.1 S2 M2SA4	280	A102_35.1 P80 BN80B4	281
42	161	2.5	33.4	7200	A302_33.4 S2 M2SA4	288	A302_33.4 P80 BN80B4	289
43	155	1.0	32.2	5080	A102_32.2 S2 M2SA4	280	A102_32.2 P80 BN80B4	281
45	151	1.7	31.3	4780	A202_31.3 S2 M2SA4	284	A202_31.3 P80 BN80B4	285
48	141	2.9	29.3	6960	A302_29.3 S2 M2SA4	288	A302_29.3 P80 BN80B4	289
48	141	1.8	29.2	4710	A202_29.2 S2 M2SA4	284	A202_29.2 P80 BN80B4	285
49	137	1.1	28.6	4200	A102_28.6 S2 M2SA4	280	A102_28.6 P80 BN80B4	281
53	128	3.2	26.5	6790	A302_26.5 S2 M2SA4	288	A302_26.5 P80 BN80B4	289
53	127	2.0	26.5	4620	A202_26.5 S2 M2SA4	284	A202_26.5 P80 BN80B4	285
55	123	1.2	25.5	4900	A102_25.5 S2 M2SA4	280	A102_25.5 P80 BN80B4	281
59	114	1.3	23.8	4070	A102_23.8 S2 M2SA4	280	A102_23.8 P80 BN80B4	281
61	111	2.2	23.1	4480	A202_23.1 S2 M2SA4	284	A202_23.1 P80 BN80B4	285
66	103	1.0	21.4	2210	A052_21.4 S2 M2SA4	277	A052_21.4 P80 BN80B4	277
66	103	1.5	21.4	4740	A102_21.4 S2 M2SA4	280	A102_21.4 P80 BN80B4	281
66	102	2.4	21.2	4390	A202_21.2 S2 M2SA4	284	A202_21.2 P80 BN80B4	285
75	89	1.1	18.6	2190	A052_18.6 S2 M2SA4	277	A052_18.6 P80 BN80B4	277
75	89	1.7	18.6	3880	A102_18.6 S2 M2SA4	280	A102_18.6 P80 BN80B4	281
77	87	2.9	18.1	4230	A202_18.1 S2 M2SA4	284	A202_18.1 P80 BN80B4	285
85	79	1.3	16.4	2160	A052_16.4 S2 M2SA4	277	A052_16.4 P80 BN80B4	277
85	79	1.9	16.4	4490	A102_16.4 S2 M2SA4	280	A102_16.4 P80 BN80B4	281
87	78	3.2	16.2	4110	A202_16.2 S2 M2SA4	284	A202_16.2 P80 BN80B4	285
101	67	1.5	13.9	2110	A052_13.9 S2 M2SA4	277	A052_13.9 P80 BN80B4	277
101	67	2.2	13.9	3640	A102_13.9 S2 M2SA4	280	A102_13.9 P80 BN80B4	281
114	59	1.7	12.3	2080	A052_12.3 S2 M2SA4	277	A052_12.3 P80 BN80B4	277
114	59	2.4	12.3	3530	A102_12.3 S2 M2SA4	280	A102_12.3 P80 BN80B4	281
133	51	2.0	10.6	2010	A052_10.6 S2 M2SA4	277	A052_10.6 P80 BN80B4	277
133	51	3.0	10.6	3400	A102_10.6 S2 M2SA4	280	A102_10.6 P80 BN80B4	281
146	46	2.2	9.6	1990	A052_9.6 S2 M2SA4	277	A052_9.6 P80 BN80B4	277
146	46	3.0	9.6	3320	A102_9.6 S2 M2SA4	280	A102_9.6 P80 BN80B4	281
164	41	2.4	8.5	1940	A052_8.5 S2 M2SA4	277	A052_8.5 P80 BN80B4	277
164	41	3.4	8.5	3820	A102_8.5 S2 M2SA4	280	A102_8.5 P80 BN80B4	281
194	35	2.9	7.2	1870	A052_7.2 S2 M2SA4	277	A052_7.2 P80 BN80B4	277

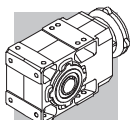


0.75 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC 	
221	30	3.3	6.3	1810	A052_6.3 S2 M2SA4	277	A052_6.3 P80 BN80B4	277
256	26	3.6	5.5	1750	A052_5.5 S2 M2SA4	277	A052_5.5 P80 BN80B4	277
266	25	3.2	10.6	1720	A052_10.6 S1 M1LA2	277	A052_10.6 P80 BN80A2	277
292	23	4.1	9.6	1690	A052_9.6 S1 M1LA2	277	A052_9.6 P80 BN80A2	277
330	20	4.4	8.5	1640	A052_8.5 S1 M1LA2	277	A052_8.5 P80 BN80A2	277
390	17.3	4.9	7.2	1570	A052_7.2 S1 M1LA2	277	A052_7.2 P80 BN80A2	277
444	15.2	5.3	6.3	1510	A052_6.3 S1 M1LA2	277	A052_6.3 P80 BN80A2	277
514	13.1	5.7	5.5	1450	A052_5.5 S1 M1LA2	277	A052_5.5 P80 BN80A2	277

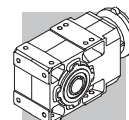
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC 	
0.61	15320	0.9	1507	75000	A904_1507 S3 M3SA6	318	A904_1507 P90 BN90L6	319
0.69	13462	1.0	1324	75000	A904_1324 S3 M3SA6	318	A904_1324 P90 BN90L6	319
0.75	12427	1.1	1222	75000	A904_1222 S3 M3SA6	318	A904_1222 P90 BN90L6	319
0.86	10907	1.3	1632	75000	A904_1632 S2 M2SB4	318	A904_1632 P90 BN90S4	319
0.93	10068	1.4	1507	75000	A904_1507 S2 M2SB4	318	A904_1507 P90 BN90S4	319
1.0	8953	0.9	1340	65000	A804_1340 S2 M2SB4	315	A804_1340 P90 BN90S4	316
1.1	8847	1.6	1324	75000	A904_1324 S2 M2SB4	318	A904_1324 P90 BN90S4	319
1.1	8264	1.0	1237	65000	A804_1237 S2 M2SB4	315	A804_1237 P90 BN90S4	316
1.1	8166	1.7	1222	75000	A904_1222 S2 M2SB4	318	A904_1222 P90 BN90S4	319
1.3	7421	1.9	1111	75000	A904_1111 S2 M2SB4	318	A904_1111 P90 BN90S4	319
1.3	7249	1.1	1085	65000	A804_1085 S2 M2SB4	315	A804_1085 P90 BN90S4	316
1.4	6850	2.0	1025	75000	A904_1025 S2 M2SB4	318	A904_1025 P90 BN90S4	319
1.4	6691	1.2	1001	65000	A804_1001 S2 M2SB4	315	A804_1001 P90 BN90S4	316
1.5	6262	2.2	937.2	75000	A904_937.2 S2 M2SB4	318	A904_937.2 P90 BN90S4	319
1.6	6005	1.3	898.7	65000	A804_898.7 S2 M2SB4	315	A804_898.7 P90 BN90S4	316
1.6	5780	2.4	865.1	75000	A904_865.1 S2 M2SB4	318	A904_865.1 P90 BN90S4	319
1.6	5715	0.9	855.3	50000	A704_855.3 S2 M2SB4	312	A704_855.3 P90 BN90S4	313
1.7	5543	1.4	829.5	65000	A804_829.5 S2 M2SB4	315	A804_829.5 P90 BN90S4	316
1.8	5124	2.7	766.9	75000	A904_766.9 S2 M2SB4	318	A904_766.9 P90 BN90S4	319
1.8	5104	1.0	763.9	50000	A704_763.9 S2 M2SB4	312	A704_763.9 P90 BN90S4	313
1.8	5092	1.6	762.1	65000	A804_762.1 S2 M2SB4	315	A804_762.1 P90 BN90S4	316
2.0	4730	3.0	707.9	75000	A904_707.9 S2 M2SB4	318	A904_707.9 P90 BN90S4	319
2.0	4711	1.1	705.1	50000	A704_705.1 S2 M2SB4	312	A704_705.1 P90 BN90S4	313
2.0	4700	1.7	703.5	65000	A804_703.5 S2 M2SB4	315	A804_703.5 P90 BN90S4	316
2.2	4307	1.2	644.6	50000	A704_644.6 S2 M2SB4	312	A704_644.6 P90 BN90S4	313
2.3	4057	2.0	607.2	65000	A804_607.2 S2 M2SB4	315	A804_607.2 P90 BN90S4	316
2.3	4019	3.5	601.6	75000	A904_601.6 S2 M2SB4	318	A904_601.6 P90 BN90S4	319
2.4	3976	1.3	595.0	50000	A704_595.0 S2 M2SB4	312	A704_595.0 P90 BN90S4	313
2.5	3745	2.1	560.5	65000	A804_560.5 S2 M2SB4	315	A804_560.5 P90 BN90S4	316
2.7	3444	1.5	515.4	50000	A704_515.4 S2 M2SB4	312	A704_515.4 P90 BN90S4	313
2.9	3200	2.5	478.9	65000	A804_478.9 S2 M2SB4	315	A804_478.9 P90 BN90S4	316
2.9	3179	1.6	475.8	50000	A704_475.8 S2 M2SB4	312	A704_475.8 P90 BN90S4	313
3.2	2954	2.7	442.1	65000	A804_442.1 S2 M2SB4	315	A804_442.1 P90 BN90S4	316
3.2	2929	1.0	438.4	30000	A604_438.4 S2 M2SB4	308	A604_438.4 P90 BN90S4	309
3.5	2704	1.0	404.7	30000	A604_404.7 S2 M2SB4	308	A604_404.7 P90 BN90S4	309
3.5	2674	1.9	400.2	50000	A704_400.2 S2 M2SB4	312	A704_400.2 P90 BN90S4	313



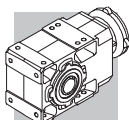
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n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
3.7	2562	3.1	383.5	65000	A804_383.5 S2 M2SB4	315	A804_383.5 P90 BN90S4	316
3.8	2468	2.0	369.4	50000	A704_369.4 S2 M2SB4	312	A704_369.4 P90 BN90S4	313
4.0	2365	3.4	354.0	65000	A804_354.0 S2 M2SB4	315	A804_354.0 P90 BN90S4	316
4.0	2347	1.2	351.2	30000	A604_351.2 S2 M2SB4	308	A604_351.2 P90 BN90S4	309
4.3	2166	1.3	324.2	30000	A604_324.2 S2 M2SB4	308	A604_324.2 P90 BN90S4	309
4.4	2114	2.4	316.4	50000	A704_316.4 S2 M2SB4	312	A704_316.4 P90 BN90S4	313
4.8	1951	2.6	292.0	50000	A704_292.0 S2 M2SB4	312	A704_292.0 P90 BN90S4	313
4.9	1913	1.5	286.3	30000	A604_286.3 S2 M2SB4	308	A604_286.3 P90 BN90S4	309
5.3	1766	1.6	264.3	30000	A604_264.3 S2 M2SB4	308	A604_264.3 P90 BN90S4	309
5.4	1743	0.9	260.9	20000	A504_260.9 S2 M2SB4	300	A504_260.9 P90 BN90S4	301
5.9	1594	3.1	238.6	50000	A704_238.6 S2 M2SB4	312	A704_238.6 P90 BN90S4	313
6.0	1550	1.0	232.0	20000	A504_232.0 S2 M2SB4	300	A504_232.0 P90 BN90S4	301
6.2	1511	1.9	226.1	30000	A604_226.1 S2 M2SB4	308	A604_226.1 P90 BN90S4	309
6.4	1472	3.4	220.3	50000	A704_220.3 S2 M2SB4	312	A704_220.3 P90 BN90S4	313
6.6	1410	1.1	211.0	20000	A504_211.0 S2 M2SB4	300	A504_211.0 P90 BN90S4	301
6.7	1395	2.0	208.7	30000	A604_208.7 S2 M2SB4	308	A604_208.7 P90 BN90S4	309
7.2	1327	1.5	194.2	30000	A553_194.2 S2 M2SB4	304	A553_194.2 P90 BN90S4	305
7.3	1302	1.2	190.6	20000	A503_190.6 S2 M2SB4	300	A503_190.6 P90 BN90S4	301
7.5	1269	2.2	185.8	30000	A603_185.8 S2 M2SB4	308	A603_185.8 P90 BN90S4	309
8.0	1196	1.7	175.0	30000	A553_175.0 S2 M2SB4	304	A553_175.0 P90 BN90S4	305
8.1	1184	1.3	173.4	20000	A503_173.4 S2 M2SB4	300	A503_173.4 P90 BN90S4	301
8.2	1171	2.4	171.5	30000	A603_171.5 S2 M2SB4	308	A603_171.5 P90 BN90S4	309
8.7	1096	1.8	160.4	30000	A553_160.4 S2 M2SB4	304	A553_160.4 P90 BN90S4	305
9.0	1066	2.6	156.0	30000	A603_156.0 S2 M2SB4	308	A603_156.0 P90 BN90S4	309
9.1	1056	1.4	154.6	20000	A503_154.6 S2 M2SB4	300	A503_154.6 P90 BN90S4	301
9.5	1003	2.0	146.8	30000	A553_146.8 S2 M2SB4	304	A553_146.8 P90 BN90S4	305
9.7	984	2.8	144.0	30000	A603_144.0 S2 M2SB4	308	A603_144.0 P90 BN90S4	309
10.0	961	1.6	140.6	20000	A503_140.6 S2 M2SB4	300	A503_140.6 P90 BN90S4	301
10.5	911	3.1	133.3	30000	A603_133.3 S2 M2SB4	308	A603_133.3 P90 BN90S4	309
10.5	907	2.2	132.7	30000	A553_132.7 S2 M2SB4	304	A553_132.7 P90 BN90S4	305
10.8	886	1.7	129.7	20000	A503_129.7 S2 M2SB4	300	A503_129.7 P90 BN90S4	301
11.3	846	2.4	123.9	30000	A553_123.9 S2 M2SB4	304	A553_123.9 P90 BN90S4	305
11.4	841	3.3	123.0	30000	A603_123.0 S2 M2SB4	308	A603_123.0 P90 BN90S4	309
11.9	806	1.9	118.0	20000	A503_118.0 S2 M2SB4	300	A503_118.0 P90 BN90S4	301
12.1	792	1.1	115.9	15000	A413_115.9 S2 M2SB4	296	A413_115.9 P90 BN90S4	297
12.8	748	2.0	109.4	20000	A503_109.4 S2 M2SB4	300	A503_109.4 P90 BN90S4	301
13.8	693	2.9	101.4	30000	A553_101.4 S2 M2SB4	304	A553_101.4 P90 BN90S4	305
14.1	680	2.2	99.5	20000	A503_99.5 S2 M2SB4	300	A503_99.5 P90 BN90S4	301
15.1	634	1.3	92.8	15000	A413_92.8 S2 M2SB4	296	A413_92.8 P90 BN90S4	297
15.6	612	2.5	89.5	20000	A503_89.5 S2 M2SB4	300	A503_89.5 P90 BN90S4	301
17.0	582	1.0	82.5	12000	A352_82.5 S2 M2SB4	292	A352_82.5 P90 BN90S4	293
17.2	556	2.7	81.5	20000	A503_81.5 S2 M2SB4	300	A503_81.5 P90 BN90S4	301
17.7	559	1.5	79.2	15000	A412_79.2 S2 M2SB4	296	A412_79.2 P90 BN90S4	297
18.8	524	1.1	74.3	12000	A352_74.3 S2 M2SB4	292	A352_74.3 P90 BN90S4	293
19.6	503	1.7	71.3	15000	A412_71.3 S2 M2SB4	296	A412_71.3 P90 BN90S4	297
19.9	480	3.1	70.2	20000	A503_70.2 S2 M2SB4	300	A503_70.2 P90 BN90S4	301
21.3	465	1.3	65.8	12000	A352_65.8 S2 M2SB4	292	A352_65.8 P90 BN90S4	293
21.8	453	1.9	64.2	15000	A412_64.2 S2 M2SB4	296	A412_64.2 P90 BN90S4	297
21.9	436	3.4	63.9	20000	A503_63.9 S2 M2SB4	300	A503_63.9 P90 BN90S4	301
23.2	426	1.4	60.4	12000	A352_60.4 S2 M2SB4	292	A352_60.4 P90 BN90S4	293
23.6	419	1.0	59.4	7420	A302_59.4 S2 M2SB4	288	A302_59.4 P90 BN90S4	289



1.1 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC 	
23.8	415	2.0	58.8	15000	A412_58.8 S2 M2SB4	296	A412_58.8 P90 BN90S4	297
25.8	383	1.6	54.3	12000	A352_54.3 S2 M2SB4	292	A352_54.3 P90 BN90S4	293
26.3	375	2.3	53.1	15000	A412_53.1 S2 M2SB4	296	A412_53.1 P90 BN90S4	297
26.6	372	1.1	52.7	7310	A302_52.7 S2 M2SB4	288	A302_52.7 P90 BN90S4	289
28.5	346	1.7	49.1	11800	A352_49.1 S2 M2SB4	292	A352_49.1 P90 BN90S4	293
29.0	341	1.2	48.3	7220	A302_48.3 S2 M2SB4	288	A302_48.3 P90 BN90S4	289
29.0	341	2.5	48.3	15000	A412_48.3 S2 M2SB4	296	A412_48.3 P90 BN90S4	297
31	323	1.9	45.8	11700	A352_45.8 S2 M2SB4	292	A352_45.8 P90 BN90S4	293
31	318	2.6	45.1	15000	A412_45.1 S2 M2SB4	296	A412_45.1 P90 BN90S4	297
32	306	1.3	43.4	7100	A302_43.4 S2 M2SB4	288	A302_43.4 P90 BN90S4	289
34	295	2.0	41.8	11400	A352_41.8 S2 M2SB4	292	A352_41.8 P90 BN90S4	293
36	277	1.5	39.3	6970	A302_39.3 S2 M2SB4	288	A302_39.3 P90 BN90S4	289
38	259	1.6	36.6	6880	A302_36.6 S2 M2SB4	288	A302_36.6 P90 BN90S4	289
38	258	2.3	36.6	11100	A352_36.6 S2 M2SB4	292	A352_36.6 P90 BN90S4	293
39	253	3.1	35.9	14300	A412_35.9 S2 M2SB4	296	A412_35.9 P90 BN90S4	297
40	250	1.0	35.4	4380	A202_35.4 S2 M2SB4	284	A202_35.4 P90 BN90S4	285
42	236	1.7	33.4	6760	A302_33.4 S2 M2SB4	288	A302_33.4 P90 BN90S4	289
42	234	2.6	33.2	10800	A352_33.2 S2 M2SB4	292	A352_33.2 P90 BN90S4	293
45	221	1.1	31.3	4320	A202_31.3 S2 M2SB4	284	A202_31.3 P90 BN90S4	285
48	207	2.0	29.3	6580	A302_29.3 S2 M2SB4	288	A302_29.3 P90 BN90S4	289
48	206	1.2	29.2	4290	A202_29.2 S2 M2SB4	284	A202_29.2 P90 BN90S4	285
49	201	3.0	28.4	10400	A352_28.4 S2 M2SB4	292	A352_28.4 P90 BN90S4	293
53	187	2.2	26.5	6440	A302_26.5 S2 M2SB4	288	A302_26.5 P90 BN90S4	289
53	187	1.3	26.5	4230	A202_26.5 S2 M2SB4	284	A202_26.5 P90 BN90S4	285
55	181	3.3	25.7	10100	A352_25.7 S2 M2SB4	292	A352_25.7 P90 BN90S4	293
59	168	0.9	23.8	3640	A102_23.8 S2 M2SB4	280	A102_23.8 P90 BN90S4	281
61	163	1.5	23.1	4140	A202_23.1 S2 M2SB4	284	A202_23.1 P90 BN90S4	285
62	161	2.6	22.8	6220	A302_22.8 S2 M2SB4	288	A302_22.8 P90 BN90S4	289
66	151	1.0	21.4	4280	A102_21.4 S2 M2SB4	280	A102_21.4 P90 BN90S4	281
66	150	1.7	21.2	4080	A202_21.2 S2 M2SB4	284	A202_21.2 P90 BN90S4	285
68	145	2.8	20.5	6070	A302_20.5 S2 M2SB4	288	A302_20.5 P90 BN90S4	289
75	131	1.1	18.6	3540	A102_18.6 S2 M2SB4	280	A102_18.6 P90 BN90S4	281
77	128	2.0	18.1	3970	A202_18.1 S2 M2SB4	284	A202_18.1 P90 BN90S4	285
78	127	3.2	18.0	5880	A302_18.0 S2 M2SB4	288	A302_18.0 P90 BN90S4	289
85	116	1.3	16.4	4130	A102_16.4 S2 M2SB4	280	A102_16.4 P90 BN90S4	281
86	115	3.3	16.3	5740	A302_16.3 S2 M2SB4	288	A302_16.3 P90 BN90S4	289
87	114	2.2	16.2	3880	A202_16.2 S2 M2SB4	284	A202_16.2 P90 BN90S4	285
99	99	2.5	14.1	3770	A202_14.1 S2 M2SB4	284	A202_14.1 P90 BN90S4	285
101	98	1.0	13.9	1840	A052_13.9 S2 M2SB4	277	A102_13.9 P90 BN90S4	281
101	98	1.5	13.9	3380	A102_13.9 S2 M2SB4	280		
114	87	1.2	12.3	1850	A052_12.3 S2 M2SB4	277		
114	87	1.6	12.3	3300	A102_12.3 S2 M2SB4	280	A102_12.3 P90 BN90S4	281
117	84	2.5	12.0	3620	A202_12.0 S2 M2SB4	284	A202_12.0 P90 BN90S4	285
133	75	1.3	10.6	1810	A052_10.6 S2 M2SB4	277	A102_10.6 P90 BN90S4	281
133	75	2.0	10.6	3210	A102_10.6 S2 M2SB4	280		
135	73	3.1	10.3	3510	A202_10.3 S2 M2SB4	284	A202_10.3 P90 BN90S4	285
146	68	1.5	9.6	1810	A052_9.6 S2 M2SB4	277	A102_9.6 P90 BN90S4	281
146	68	2.1	9.6	3140	A102_9.6 S2 M2SB4	280		
149	66	3.2	9.4	3420	A202_9.4 S2 M2SB4	284	A202_9.4 P90 BN90S4	285
164	60	1.7	8.5	1780	A052_8.5 S2 M2SB4	277	A102_8.5 P90 BN90S4	281
164	60	2.3	8.5	3630	A102_8.5 S2 M2SB4	280		

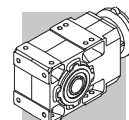


1.1 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
194	51	2.0	7.2	1730	A052_7.2 S2 M2SB4	277		
194	51	2.8	7.2	2940	A102_7.2 S2 M2SB4	280	A102_7.2 P90 BN90S4	281
221	45	2.2	6.3	1690	A052_6.3 S2 M2SB4	277		
221	45	3.1	6.3	3390	A102_6.3 S2 M2SB4	280	A102_6.3 P90 BN90S4	281
228	43	3.2	12.3	2830	A102_12.3 S2 M2SA2	280	A102_12.3 P80 BN80B2	281
256	39	2.5	5.5	1640	A052_5.5 S2 M2SB4	277		
291	34	2.8	9.6	1600	A052_9.6 S2 M2SA2	277	A052_9.6 P80 BN80B2	277
329	30	3.0	8.5	1560	A052_8.5 S2 M2SA2	277	A052_8.5 P80 BN80B2	277
388	25	3.3	7.2	1500	A052_7.2 S2 M2SA2	277	A052_7.2 P80 BN80B2	277
442	22	3.6	6.3	1450	A052_6.3 S2 M2SA2	277	A052_6.3 P80 BN80B2	277
512	19.3	3.9	5.5	1400	A052_5.5 S2 M2SA2	277	A052_5.5 P80 BN80B2	277

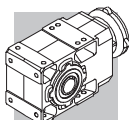
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
0.86	14767	0.9	1632	75000	A904_1632 S3 M3SA4	318	A904_1632 P90 BN90LA4	319
0.94	13631	1.0	1507	75000	A904_1507 S3 M3SA4	318	A904_1507 P90 BN90LA4	319
1.1	11978	1.2	1324	75000	A904_1324 S3 M3SA4	318	A904_1324 P90 BN90LA4	319
1.2	11057	1.3	1222	75000	A904_1222 S3 M3SA4	318	A904_1222 P90 BN90LA4	319
1.3	10047	1.4	1111	75000	A904_1111 S3 M3SA4	318	A904_1111 P90 BN90LA4	319
1.4	9274	1.5	1025	75000	A904_1025 S3 M3SA4	318	A904_1025 P90 BN90LA4	319
1.4	9060	0.9	1001	65000	A804_1001 S3 M3SA4	315	A804_1001 P90 BN90LA4	316
1.5	8478	1.7	937.2	75000	A904_937.2 S3 M3SA4	318	A904_937.2 P90 BN90LA4	319
1.6	8130	1.0	898.7	65000	A804_898.7 S3 M3SA4	315	A804_898.7 P90 BN90LA4	316
1.6	7826	1.8	865.1	75000	A904_865.1 S3 M3SA4	318	A904_865.1 P90 BN90LA4	319
1.7	7505	1.1	829.5	65000	A804_829.5 S3 M3SA4	315	A804_829.5 P90 BN90LA4	316
1.8	6938	2.0	766.9	75000	A904_766.9 S3 M3SA4	318	A904_766.9 P90 BN90LA4	319
1.9	6894	1.2	762.1	65000	A804_762.1 S3 M3SA4	315	A804_762.1 P90 BN90LA4	316
2.0	6404	2.2	707.9	75000	A904_707.9 S3 M3SA4	318	A904_707.9 P90 BN90LA4	319
2.0	6364	1.3	703.5	65000	A804_703.5 S3 M3SA4	315	A804_703.5 P90 BN90LA4	316
2.2	5832	0.9	644.6	50000	A704_644.6 S3 M3SA4	312	A704_644.6 P90 BN90LA4	313
2.3	5493	1.5	607.2	65000	A804_607.2 S3 M3SA4	315	A804_607.2 P90 BN90LA4	316
2.3	5442	2.6	601.6	75000	A904_601.6 S3 M3SA4	318	A904_601.6 P90 BN90LA4	319
2.4	5383	0.9	595.0	50000	A704_595.0 S3 M3SA4	312	A704_595.0 P90 BN90LA4	313
2.5	5070	1.6	560.5	65000	A804_560.5 S3 M3SA4	315	A804_560.5 P90 BN90LA4	316
2.5	5024	2.8	555.3	75000	A904_555.3 S3 M3SA4	318	A904_555.3 P90 BN90LA4	319
2.7	4663	1.1	515.4	50000	A704_515.4 S3 M3SA4	312	A704_515.4 P90 BN90LA4	313
2.9	4402	3.2	486.6	75000	A904_486.6 S3 M3SA4	318	A904_486.6 P90 BN90LA4	319
2.9	4333	1.8	478.9	65000	A804_478.9 S3 M3SA4	315	A804_478.9 P90 BN90LA4	316
3.0	4304	1.2	475.8	50000	A704_475.8 S3 M3SA4	312	A704_475.8 P90 BN90LA4	313
3.1	4063	3.4	449.2	75000	A904_449.2 S3 M3SA4	318	A904_449.2 P90 BN90LA4	319
3.2	3999	2.0	442.1	65000	A804_442.1 S3 M3SA4	315	A804_442.1 P90 BN90LA4	316
3.5	3620	1.4	400.2	50000	A704_400.2 S3 M3SA4	312	A704_400.2 P90 BN90LA4	313
3.7	3469	2.3	383.5	65000	A804_383.5 S3 M3SA4	315	A804_383.5 P90 BN90LA4	316
3.8	3342	1.5	369.4	50000	A704_369.4 S3 M3SA4	312	A704_369.4 P90 BN90LA4	313
4.0	3202	2.5	354.0	65000	A804_354.0 S3 M3SA4	315	A804_354.0 P90 BN90LA4	316
4.0	3177	0.9	351.2	30000	A604_351.2 S3 M3SA4	308	A604_351.2 P90 BN90LA4	309
4.3	2933	1.0	324.2	30000	A604_324.2 S3 M3SA4	308	A604_324.2 P90 BN90LA4	309



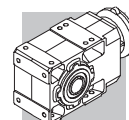
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n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
4.5	2862	1.7	316.4	50000	A704_316.4 S3 M3SA4	312	A704_316.4 P90 BN90LA4	313
4.7	2718	2.9	300.4	65000	A804_300.4 S3 M3SA4	315	A804_300.4 P90 BN90LA4	316
4.8	2642	1.9	292.0	50000	A704_292.0 S3 M3SA4	312	A704_292.0 P90 BN90LA4	313
4.9	2590	1.1	286.3	30000	A604_286.3 S3 M3SA4	308	A604_286.3 P90 BN90LA4	309
5.1	2509	3.2	277.3	65000	A804_277.3 S3 M3SA4	315	A804_277.3 P90 BN90LA4	316
5.3	2391	1.2	264.3	30000	A604_264.3 S3 M3SA4	308	A604_264.3 P90 BN90LA4	309
5.9	2159	2.3	238.6	50000	A704_238.6 S3 M3SA4	312	A704_238.6 P90 BN90LA4	313
6.2	2046	1.4	226.1	30000	A604_226.1 S3 M3SA4	308	A604_226.1 P90 BN90LA4	309
6.4	1993	2.5	220.3	50000	A704_220.3 S3 M3SA4	312	A704_220.3 P90 BN90LA4	313
6.8	1888	1.5	208.7	30000	A604_208.7 S3 M3SA4	308	A604_208.7 P90 BN90LA4	309
7.3	1796	1.1	194.2	30000	A553_194.2 S3 M3SA4	304	A553_194.2 P90 BN90LA4	305
7.6	1718	1.6	185.8	30000	A603_185.8 S3 M3SA4	308	A603_185.8 P90 BN90LA4	309
7.7	1664	3.0	183.9	50000	A704_183.9 S3 M3SA4	312	A704_183.9 P90 BN90LA4	313
8.1	1619	1.2	175.0	30000	A553_175.0 S3 M3SA4	304	A553_175.0 P90 BN90LA4	305
8.1	1604	0.9	173.4	20000	A503_173.4 S3 M3SA4	300	A503_173.4 P90 BN90LA4	301
8.2	1586	1.8	171.5	30000	A603_171.5 S3 M3SA4	308	A603_171.5 P90 BN90LA4	309
8.3	1536	3.3	169.8	50000	A704_169.8 S3 M3SA4	312	A704_169.8 P90 BN90LA4	313
8.8	1484	1.3	160.4	30000	A553_160.4 S3 M3SA4	304	A553_160.4 P90 BN90LA4	305
9.0	1443	1.9	156.0	30000	A603_156.0 S3 M3SA4	308	A603_156.0 P90 BN90LA4	309
9.1	1430	1.0	154.6	20000	A503_154.6 S3 M3SA4	300	A503_154.6 P90 BN90LA4	301
9.2	1422	2.8	153.7	50000	A703_153.7 S3 M3SA4	312	A703_153.7 P90 BN90LA4	313
9.6	1358	1.5	146.8	30000	A553_146.8 S3 M3SA4	304	A553_146.8 P90 BN90LA4	305
9.8	1332	2.1	144.0	30000	A603_144.0 S3 M3SA4	308	A603_144.0 P90 BN90LA4	309
10.0	1301	1.2	140.6	20000	A503_140.6 S3 M3SA4	300	A503_140.6 P90 BN90LA4	301
10.6	1233	2.3	133.3	30000	A603_133.3 S3 M3SA4	308	A603_133.3 P90 BN90LA4	309
10.6	1228	1.6	132.7	30000	A553_132.7 S3 M3SA4	304	A553_132.7 P90 BN90LA4	305
10.9	1199	1.3	129.7	20000	A503_129.7 S3 M3SA4	300	A503_129.7 P90 BN90LA4	301
11.4	1146	1.7	123.9	30000	A553_123.9 S3 M3SA4	304	A553_123.9 P90 BN90LA4	305
11.5	1138	2.5	123.0	30000	A603_123.0 S3 M3SA4	308	A603_123.0 P90 BN90LA4	309
12.0	1091	1.4	118.0	20000	A503_118.0 S3 M3SA4	300	A503_118.0 P90 BN90LA4	301
12.9	1012	1.5	109.4	20000	A503_109.4 S3 M3SA4	300	A503_109.4 P90 BN90LA4	301
13.1	997	2.8	107.8	30000	A603_107.8 S3 M3SA4	308	A603_107.8 P90 BN90LA4	309
13.9	938	2.1	101.4	30000	A553_101.4 S3 M3SA4	304	A553_101.4 P90 BN90LA4	305
14.2	921	1.6	99.5	20000	A503_99.5 S3 M3SA4	300	A503_99.5 P90 BN90LA4	301
14.2	920	3.0	99.5	30000	A603_99.5 S3 M3SA4	308	A603_99.5 P90 BN90LA4	309
15.2	858	0.9	92.8	15000	A413_92.8 S3 M3SA4	296	A413_92.8 P90 BN90LA4	297
15.7	828	1.8	89.5	20000	A503_89.5 S3 M3SA4	300	A503_89.5 P90 BN90LA4	301
16.3	799	3.5	86.4	30000	A603_86.4 S3 M3SA4	308	A603_86.4 P90 BN90LA4	309
17.3	753	2.0	81.5	20000	A503_81.5 S3 M3SA4	300	A503_81.5 P90 BN90LA4	301
17.7	736	2.7	79.5	30000	A553_79.5 S3 M3SA4	304	A553_79.5 P90 BN90LA4	305
17.8	757	1.1	79.2	15000	A412_79.2 S3 M3SA4	296	A412_79.2 P90 BN90LA4	297
19.8	681	1.2	71.3	15000	A412_71.3 S3 M3SA4	296	A412_71.3 P90 BN90LA4	297
20.1	650	2.3	70.2	20000	A503_70.2 S3 M3SA4	300	A503_70.2 P90 BN90LA4	301
21.4	629	1.0	65.8	11600	A352_65.8 S3 M3SA4	292	A352_65.8 P90 BN90LA4	293
21.9	595	3.4	64.3	30000	A553_64.3 S3 M3SA4	304	A553_64.3 P90 BN90LA4	305
22.0	613	1.4	64.2	15000	A412_64.2 S3 M3SA4	296	A412_64.2 P90 BN90LA4	297
22.1	591	2.5	63.9	20000	A503_63.9 S3 M3SA4	300	A503_63.9 P90 BN90LA4	301
23.4	577	1.0	60.4	11500	A352_60.4 S3 M3SA4	292	A352_60.4 P90 BN90LA4	293
24.0	562	1.5	58.8	15000	A412_58.8 S3 M3SA4	296	A412_58.8 P90 BN90LA4	297
24.8	526	2.9	56.8	20000	A503_56.8 S3 M3SA4	300	A503_56.8 P90 BN90LA4	301
26.0	519	1.2	54.3	11300	A352_54.3 S3 M3SA4	292	A352_54.3 P90 BN90LA4	293



1.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
26.5	508	1.7	53.1	15000	A412_53.1 S3 M3SA4	296	A412_53.1 P90 BN90LA4	297
27.3	478	3.1	51.7	19700	A503_51.7 S3 M3SA4	300	A503_51.7 P90 BN90LA4	301
28.7	469	1.3	49.1	11100	A352_49.1 S3 M3SA4	292	A352_49.1 P90 BN90LA4	293
29.2	461	1.8	48.3	14900	A412_48.3 S3 M3SA4	296	A412_48.3 P90 BN90LA4	297
31	438	1.4	45.8	11000	A352_45.8 S3 M3SA4	292	A352_45.8 P90 BN90LA4	293
31	431	1.9	45.1	14600	A412_45.1 S3 M3SA4	296	A412_45.1 P90 BN90LA4	297
32	415	1.0	43.4	6450	A302_43.4 S3 M3SA4	288	A302_43.4 P90 BN90LA4	289
34	399	1.5	41.8	10800	A352_41.8 S3 M3SA4	292	A352_41.8 P90 BN90LA4	293
36	375	1.1	39.3	6380	A302_39.3 S3 M3SA4	288	A302_39.3 P90 BN90LA4	289
38	350	1.2	36.6	6330	A302_36.6 S3 M3SA4	288	A302_36.6 P90 BN90LA4	289
38	350	1.7	36.6	10500	A352_36.6 S3 M3SA4	292	A352_36.6 P90 BN90LA4	293
39	343	2.3	35.9	13800	A412_35.9 S3 M3SA4	296	A412_35.9 P90 BN90LA4	297
42	319	1.3	33.4	6260	A302_33.4 S3 M3SA4	288	A302_33.4 P90 BN90LA4	289
43	317	1.9	33.2	10300	A352_33.2 S3 M3SA4	292	A352_33.2 P90 BN90LA4	293
48	280	1.5	29.3	6140	A302_29.3 S3 M3SA4	288	A302_29.3 P90 BN90LA4	289
50	272	2.2	28.4	9940	A352_28.4 S3 M3SA4	292	A352_28.4 P90 BN90LA4	293
50	271	2.7	28.3	13000	A412_28.3 S3 M3SA4	296	A412_28.3 P90 BN90LA4	297
53	254	1.6	26.5	6040	A302_26.5 S3 M3SA4	288	A302_26.5 P90 BN90LA4	289
53	253	1.0	26.5	3790	A202_26.5 S3 M3SA4	284	A202_26.5 P90 BN90LA4	285
55	245	2.4	25.7	9710	A352_25.7 S3 M3SA4	292	A352_25.7 P90 BN90LA4	293
61	221	1.1	23.1	3760	A202_23.1 S3 M3SA4	284	A202_23.1 P90 BN90LA4	285
62	217	1.9	22.8	5870	A302_22.8 S3 M3SA4	288	A302_22.8 P90 BN90LA4	289
62	217	3.1	22.7	12200	A412_22.7 S3 M3SA4	296	A412_22.7 P90 BN90LA4	297
63	215	2.8	22.5	9400	A352_22.5 S3 M3SA4	292	A352_22.5 P90 BN90LA4	293
66	203	1.2	21.2	3730	A202_21.2 S3 M3SA4	284	A202_21.2 P90 BN90LA4	285
69	196	2.1	20.5	5760	A302_20.5 S3 M3SA4	288	A302_20.5 P90 BN90LA4	289
69	195	3.1	20.4	9170	A352_20.4 S3 M3SA4	292	A352_20.4 P90 BN90LA4	293
78	173	1.4	18.1	3660	A202_18.1 S3 M3SA4	284	A202_18.1 P90 BN90LA4	285
78	172	2.3	18.0	5600	A302_18.0 S3 M3SA4	288	A302_18.0 P90 BN90LA4	289
86	157	1.0	16.4	3720	A102_16.4 S3 M3SA4	280	A102_16.4 P90 BN90LA4	281
86	156	2.5	16.3	5480	A302_16.3 S3 M3SA4	288	A302_16.3 P90 BN90LA4	289
87	154	1.6	16.2	3600	A202_16.2 S3 M3SA4	284	A202_16.2 P90 BN90LA4	285
100	134	1.8	14.1	3530	A202_14.1 S3 M3SA4	284	A202_14.1 P90 BN90LA4	285
101	133	1.1	13.9	3090	A102_13.9 S3 M3SA4	280	A102_13.9 P90 BN90LA4	281
104	130	2.9	13.6	5250	A302_13.6 S3 M3SA4	288	A302_13.6 P90 BN90LA4	289
115	118	1.2	12.3	3040	A102_12.3 S3 M3SA4	280	A102_12.3 P90 BN90LA4	281
118	114	1.8	12.0	3420	A202_12.0 S3 M3SA4	284	A202_12.0 P90 BN90LA4	285
120	113	2.7	11.8	5060	A302_11.8 S3 M3SA4	288	A302_11.8 P90 BN90LA4	289
123	109	3.2	22.8	5040	A302_22.8 S2 M2SB2	288	A302_22.8 P90 BN90SA2	289
134	101	1.5	10.6	2990	A102_10.6 S3 M3SA4	280	A102_10.6 P90 BN90LA4	281
135	100	3.4	10.5	4930	A302_10.5 S3 M3SA4	288	A302_10.5 P90 BN90LA4	289
136	99	2.3	10.3	3330	A202_10.3 S3 M3SA4	284	A202_10.3 P90 BN90LA4	285
147	92	1.5	9.6	2940	A102_9.6 S3 M3SA4	280	A102_9.6 P90 BN90LA4	281
150	90	2.3	9.4	3250	A202_9.4 S3 M3SA4	284	A202_9.4 P90 BN90LA4	285
151	89	3.4	9.3	4770	A302_9.3 S3 M3SA4	288	A302_9.3 P90 BN90LA4	289
166	81	1.7	8.5	3420	A102_8.5 S3 M3SA4	280	A102_8.5 P90 BN90LA4	281
168	80	2.6	8.4	3180	A202_8.4 S3 M3SA4	284	A202_8.4 P90 BN90LA4	285
193	70	3.0	7.3	3080	A202_7.3 S3 M3SA4	284	A202_7.3 P90 BN90LA4	285
196	69	2.0	7.2	2790	A102_7.2 S3 M3SA4	280	A102_7.2 P90 BN90LA4	281
216	62	3.4	6.5	3000	A202_6.5 S3 M3SA4	284	A202_6.5 P90 BN90LA4	285
223	61	2.3	6.3	3220	A102_6.3 S3 M3SA4	280	A102_6.3 P90 BN90LA4	281

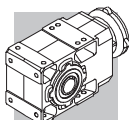


1.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC 	
258	52	2.7	5.5	2630	A102_5.5 S3 M3SA4	280	A102_5.5 P90 BN90LA4	281
291	46	3.0	9.6	2560	A102_9.6 S2 M2SB2	280	A102_9.6 P90 BN90SA2	281
329	41	3.4	8.5	2950	A102_8.5 S2 M2SB2	280	A102_8.5 P90 BN90SA2	281
388	35	2.4	7.2	1420	A052_7.2 S2 M2SB2	277		
442	30	2.6	6.3	1380	A052_6.3 S2 M2SB2	277		
512	26	2.9	5.5	1340	A052_5.5 S2 M2SB2	277		

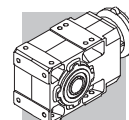
2.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC 	
1.2	16217	0.9	1222	75000	A904_1222 S3 M3LA4	318	A904_1222 P100 BN100LA4	319
1.3	14736	1.0	1111	75000	A904_1111 S3 M3LA4	318	A904_1111 P100 BN100LA4	319
1.4	13602	1.0	1025	75000	A904_1025 S3 M3LA4	318	A904_1025 P100 BN100LA4	319
1.5	12435	1.1	937.2	75000	A904_937.2 S3 M3LA4	318	A904_937.2 P100 BN100LA4	319
1.6	11479	1.2	865.1	75000	A904_865.1 S3 M3LA4	318	A904_865.1 P100 BN100LA4	319
1.8	10176	1.4	766.9	75000	A904_766.9 S3 M3LA4	318	A904_766.9 P100 BN100LA4	319
2.0	9393	1.5	707.9	75000	A904_707.9 S3 M3LA4	318	A904_707.9 P100 BN100LA4	319
2.0	9334	0.9	703.5	65000	A804_703.5 S3 M3LA4	315	A804_703.5 P100 BN100LA4	316
2.3	8056	1.0	607.2	65000	A804_607.2 S3 M3LA4	315	A804_607.2 P100 BN100LA4	316
2.3	7982	1.8	601.6	75000	A904_601.6 S3 M3LA4	318	A904_601.6 P100 BN100LA4	319
2.5	7436	1.1	560.5	65000	A804_560.5 S3 M3LA4	315	A804_560.5 P100 BN100LA4	316
2.5	7368	1.9	555.3	75000	A904_555.3 S3 M3LA4	318	A904_555.3 P100 BN100LA4	319
2.9	6456	2.2	486.6	75000	A904_486.6 S3 M3LA4	318	A904_486.6 P100 BN100LA4	319
2.9	6355	1.3	478.9	65000	A804_478.9 S3 M3LA4	315	A804_478.9 P100 BN100LA4	316
3.1	5960	2.3	449.2	75000	A904_449.2 S3 M3LA4	318	A904_449.2 P100 BN100LA4	319
3.2	5866	1.4	442.1	65000	A804_442.1 S3 M3LA4	315	A804_442.1 P100 BN100LA4	316
3.5	5310	0.9	400.2	50000	A704_400.2 S3 M3LA4	312	A704_400.2 P100 BN100LA4	313
3.7	5114	2.7	385.4	75000	A904_385.4 S3 M3LA4	318	A904_385.4 P100 BN100LA4	319
3.7	5088	1.6	383.5	65000	A804_383.5 S3 M3LA4	315	A804_383.5 P100 BN100LA4	316
3.8	4901	1.0	369.4	50000	A704_369.4 S3 M3LA4	312	A704_369.4 P100 BN100LA4	313
4.0	4721	3.0	355.8	75000	A904_355.8 S3 M3LA4	318	A904_355.8 P100 BN100LA4	319
4.0	4697	1.7	354.0	65000	A804_354.0 S3 M3LA4	315	A804_354.0 P100 BN100LA4	316
4.5	4198	1.2	316.4	50000	A704_316.4 S3 M3LA4	312	A704_316.4 P100 BN100LA4	313
4.6	4045	3.5	304.9	75000	A904_304.9 S3 M3LA4	318	A904_304.9 P100 BN100LA4	319
4.7	3986	2.0	300.4	65000	A804_300.4 S3 M3LA4	315	A804_300.4 P100 BN100LA4	316
4.8	3875	1.3	292.0	50000	A704_292.0 S3 M3LA4	312	A704_292.0 P100 BN100LA4	313
5.1	3679	2.2	277.3	65000	A804_277.3 S3 M3LA4	315	A804_277.3 P100 BN100LA4	316
5.9	3166	1.6	238.6	50000	A704_238.6 S3 M3LA4	312	A704_238.6 P100 BN100LA4	313
6.1	3087	2.6	232.6	65000	A804_232.6 S3 M3LA4	315	A804_232.6 P100 BN100LA4	316
6.2	3000	0.9	226.1	30000	A604_226.1 S3 M3LA4	308	A604_226.1 P100 BN100LA4	309
6.4	2922	1.7	220.3	50000	A704_220.3 S3 M3LA4	312	A704_220.3 P100 BN100LA4	313
6.6	2849	2.8	214.7	65000	A804_214.7 S3 M3LA4	315	A804_214.7 P100 BN100LA4	316
6.8	2770	1.0	208.7	30000	A604_208.7 S3 M3LA4	308	A604_208.7 P100 BN100LA4	309
7.6	2520	1.1	185.8	30000	A603_185.8 S3 M3LA4	308	A603_185.8 P100 BN100LA4	309
7.7	2440	2.0	183.9	50000	A704_183.9 S3 M3LA4	312	A704_183.9 P100 BN100LA4	313
8.2	2326	1.2	171.5	30000	A603_171.5 S3 M3LA4	308	A603_171.5 P100 BN100LA4	309
8.2	2273	3.5	171.3	65000	A804_171.3 S3 M3LA4	315	A804_171.3 P100 BN100LA4	316
8.3	2252	2.2	169.8	50000	A704_169.8 S3 M3LA4	312	A704_169.8 P100 BN100LA4	313



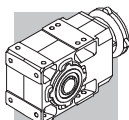
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n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
8.8	2177	0.9	160.4	30000	A553_160.4 S3 M3LA4	304	A553_160.4 P100 BN100LA4	305
9.0	2117	1.3	156.0	30000	A603_156.0 S3 M3LA4	308	A603_156.0 P100 BN100LA4	309
9.2	2085	1.9	153.7	50000	A703_153.7 S3 M3LA4	312	A703_153.7 P100 BN100LA4	313
9.6	1992	1.0	146.8	30000	A553_146.8 S3 M3LA4	304	A553_146.8 P100 BN100LA4	305
9.8	1954	1.4	144.0	30000	A603_144.0 S3 M3LA4	308	A603_144.0 P100 BN100LA4	309
9.9	1925	2.6	141.9	50000	A703_141.9 S3 M3LA4	312	A703_141.9 P100 BN100LA4	313
10.6	1808	1.5	133.3	30000	A603_133.3 S3 M3LA4	308	A603_133.3 P100 BN100LA4	309
10.6	1801	1.1	132.7	30000	A553_132.7 S3 M3LA4	304	A553_132.7 P100 BN100LA4	305
10.8	1773	2.8	130.7	50000	A703_130.7 S3 M3LA4	312	A703_130.7 P100 BN100LA4	313
11.4	1681	1.2	123.9	30000	A553_123.9 S3 M3LA4	304	A553_123.9 P100 BN100LA4	305
11.5	1669	1.7	123.0	30000	A603_123.0 S3 M3LA4	308	A603_123.0 P100 BN100LA4	309
11.7	1636	3.1	120.6	50000	A703_120.6 S3 M3LA4	312	A703_120.6 P100 BN100LA4	313
12.0	1600	0.9	118.0	20000	A503_118.0 S3 M3LA4	300	A503_118.0 P100 BN100LA4	301
12.9	1485	1.0	109.4	20000	A503_109.4 S3 M3LA4	300	A503_109.4 P100 BN100LA4	301
13.1	1463	1.9	107.8	30000	A603_107.8 S3 M3LA4	308	A603_107.8 P100 BN100LA4	309
13.5	1414	3.5	104.2	50000	A703_104.2 S3 M3LA4	312	A703_104.2 P100 BN100LA4	313
13.9	1375	1.5	101.4	30000	A553_101.4 S3 M3LA4	304	A553_101.4 P100 BN100LA4	305
14.2	1350	1.1	99.5	20000	A503_99.5 S3 M3LA4	300	A503_99.5 P100 BN100LA4	301
14.2	1350	2.1	99.5	30000	A603_99.5 S3 M3LA4	308	A603_99.5 P100 BN100LA4	309
15.7	1215	1.2	89.5	19800	A503_89.5 S3 M3LA4	300	A503_89.5 P100 BN100LA4	301
16.3	1172	2.4	86.4	30000	A603_86.4 S3 M3LA4	308	A603_86.4 P100 BN100LA4	309
17.3	1105	1.4	81.5	19600	A503_81.5 S3 M3LA4	300	A503_81.5 P100 BN100LA4	301
17.7	1082	2.6	79.7	30000	A603_79.7 S3 M3LA4	308	A603_79.7 P100 BN100LA4	309
17.7	1079	1.9	79.5	30000	A553_79.5 S3 M3LA4	304	A553_79.5 P100 BN100LA4	305
20.0	955	2.9	70.4	30000	A603_70.4 S3 M3LA4	308	A603_70.4 P100 BN100LA4	309
20.1	953	1.6	70.2	19300	A503_70.2 S3 M3LA4	300	A503_70.2 P100 BN100LA4	301
21.7	882	3.2	65.0	30000	A603_65.0 S3 M3LA4	308	A603_65.0 P100 BN100LA4	309
21.9	873	2.3	64.3	30000	A553_64.3 S3 M3LA4	304	A553_64.3 P100 BN100LA4	305
22.0	899	0.9	64.2	14500	A412_64.2 S3 M3LA4	296	A412_64.2 P100 BN100LA4	297
22.1	867	1.7	63.9	19000	A503_63.9 S3 M3LA4	300	A503_63.9 P100 BN100LA4	301
24.0	824	1.0	58.8	14400	A412_58.8 S3 M3LA4	296	A412_58.8 P100 BN100LA4	297
24.8	771	1.9	56.8	18600	A503_56.8 S3 M3LA4	300	A503_56.8 P100 BN100LA4	301
26.5	745	1.1	53.1	14100	A412_53.1 S3 M3LA4	296	A412_53.1 P100 BN100LA4	297
27.3	701	2.1	51.7	18300	A503_51.7 S3 M3LA4	300	A503_51.7 P100 BN100LA4	301
27.7	691	2.9	51.0	30000	A553_51.0 S3 M3LA4	304	A553_51.0 P100 BN100LA4	305
28.7	688	0.9	49.1	9900	A352_49.1 S3 M3LA4	292	A352_49.1 P100 BN100LA4	293
29.2	677	1.3	48.3	13900	A412_48.3 S3 M3LA4	296	A412_48.3 P100 BN100LA4	297
31	642	0.9	45.8	9840	A352_45.8 S3 M3LA4	292	A352_45.8 P100 BN100LA4	293
31	632	1.3	45.1	13700	A412_45.1 S3 M3LA4	296	A412_45.1 P100 BN100LA4	297
31	611	2.5	45.0	17900	A503_45.0 S3 M3LA4	300	A503_45.0 P100 BN100LA4	301
34	586	1.0	41.8	9750	A352_41.8 S3 M3LA4	292	A352_41.8 P100 BN100LA4	293
34	555	2.7	40.9	17500	A503_40.9 S3 M3LA4	300	A503_40.9 P100 BN100LA4	301
38	513	1.2	36.6	9600	A352_36.6 S3 M3LA4	292	A352_36.6 P100 BN100LA4	293
39	503	1.6	35.9	13100	A412_35.9 S3 M3LA4	296	A412_35.9 P100 BN100LA4	297
40	483	3.1	35.6	17000	A503_35.6 S3 M3LA4	300	A503_35.6 P100 BN100LA4	301
43	465	1.3	33.2	9460	A352_33.2 S3 M3LA4	292	A352_33.2 P100 BN100LA4	293
44	439	3.4	32.4	16600	A503_32.4 S3 M3LA4	300	A503_32.4 P100 BN100LA4	301
48	411	1.0	29.3	5380	A302_29.3 S3 M3LA4	288	A302_29.3 P100 BN100LA4	289
50	399	1.5	28.4	9230	A352_28.4 S3 M3LA4	292	A352_28.4 P100 BN100LA4	293
50	397	1.8	28.3	12400	A412_28.3 S3 M3LA4	296	A412_28.3 P100 BN100LA4	297
53	372	1.1	26.5	5350	A302_26.5 S3 M3LA4	288	A302_26.5 P100 BN100LA4	289



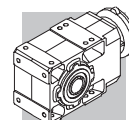
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC 	
55	360	1.7	25.7	9070	A352_25.7 S3 M3LA4	292	A352_25.7 P100 BN100LA4	293
62	319	1.3	22.8	5290	A302_22.8 S3 M3LA4	288	A302_22.8 P100 BN100LA4	289
62	318	2.1	22.7	11700	A412_22.7 S3 M3LA4	296	A412_22.7 P100 BN100LA4	297
63	315	1.9	22.5	8840	A352_22.5 S3 M3LA4	292	A352_22.5 P100 BN100LA4	293
69	288	1.4	20.5	5230	A302_20.5 S3 M3LA4	288	A302_20.5 P100 BN100LA4	289
69	286	2.1	20.4	8660	A352_20.4 S3 M3LA4	292	A352_20.4 P100 BN100LA4	293
78	254	1.0	18.1	3140	A202_18.1 S3 M3LA4	284	A202_18.1 P100 BN100LA4	285
78	252	1.6	18.0	5140	A302_18.0 S3 M3LA4	288	A302_18.0 P100 BN100LA4	289
79	249	2.5	17.8	11000	A412_17.8 S3 M3LA4	296	A412_17.8 P100 BN100LA4	297
83	238	2.5	17.0	8320	A352_17.0 S3 M3LA4	292	A352_17.0 P100 BN100LA4	293
86	229	1.7	16.3	5060	A302_16.3 S3 M3LA4	288	A302_16.3 P100 BN100LA4	289
87	227	1.1	16.2	3140	A202_16.2 S3 M3LA4	284	A202_16.2 P100 BN100LA4	285
88	226	2.7	16.1	10800	A412_16.1 S3 M3LA4	296	A412_16.1 P100 BN100LA4	297
91	217	2.8	15.5	8150	A352_15.5 S3 M3LA4	292	A352_15.5 P100 BN100LA4	293
100	197	1.2	14.1	3120	A202_14.1 S3 M3LA4	284	A202_14.1 P100 BN100LA4	285
102	193	3.0	13.8	10300	A412_13.8 S3 M3LA4	296	A412_13.8 P100 BN100LA4	297
104	190	1.9	13.6	4900	A302_13.6 S3 M3LA4	288	A302_13.6 P100 BN100LA4	289
108	183	3.3	13.1	7820	A352_13.1 S3 M3LA4	292	A352_13.1 P100 BN100LA4	293
118	168	1.3	12.0	3070	A202_12.0 S3 M3LA4	284	A202_12.0 P100 BN100LA4	285
120	165	1.8	11.8	4750	A302_11.8 S3 M3LA4	288	A302_11.8 P100 BN100LA4	289
120	165	2.4	11.8	7710	A352_11.8 S3 M3LA4	292	A352_11.8 P100 BN100LA4	293
120	165	3.3	11.7	9870	A412_11.7 S3 M3LA4	296	A412_11.7 P100 BN100LA4	297
123	160	2.0	23.1	3070	A202_23.1 S3 M3SA2	284	A202_23.1 P90 BN90L2	285
133	149	2.7	10.6	7510	A352_10.6 S3 M3LA4	292	A352_10.6 P100 BN100LA4	293
134	148	1.0	10.6	2600	A102_10.6 S3 M3LA4	280	A102_10.6 P100 BN100LA4	281
135	147	2.3	10.5	4660	A302_10.5 S3 M3LA4	288	A302_10.5 P100 BN100LA4	289
136	145	1.6	10.3	3030	A202_10.3 S3 M3LA4	284	A202_10.3 P100 BN100LA4	285
147	135	1.0	9.6	2580	A102_9.6 S3 M3LA4	280	A102_9.6 P100 BN100LA4	281
150	131	1.6	9.4	2980	A202_9.4 S3 M3LA4	284	A202_9.4 P100 BN100LA4	285
151	130	2.3	9.3	4530	A302_9.3 S3 M3LA4	288	A302_9.3 P100 BN100LA4	289
151	130	3.1	9.3	7240	A352_9.3 S3 M3LA4	292	A352_9.3 P100 BN100LA4	293
166	119	1.2	8.5	3050	A102_8.5 S3 M3LA4	280	A102_8.5 P100 BN100LA4	281
167	119	2.5	8.5	4430	A302_8.5 S3 M3LA4	288	A302_8.5 P100 BN100LA4	289
167	119	3.2	8.5	7060	A352_8.5 S3 M3LA4	292	A352_8.5 P100 BN100LA4	293
168	117	1.8	8.4	2930	A202_8.4 S3 M3LA4	284	A202_8.4 P100 BN100LA4	285
193	102	2.1	7.3	2860	A202_7.3 S3 M3LA4	284	A202_7.3 P100 BN100LA4	285
196	101	1.4	7.2	2520	A102_7.2 S3 M3LA4	280	A102_7.2 P100 BN100LA4	281
201	98	3.0	7.0	4240	A302_7.0 S3 M3LA4	288	A302_7.0 P100 BN100LA4	289
216	92	2.3	6.5	2810	A202_6.5 S3 M3LA4	284	A202_6.5 P100 BN100LA4	285
220	90	3.3	6.4	4150	A302_6.4 S3 M3LA4	288	A302_6.4 P100 BN100LA4	289
223	89	1.6	6.3	2950	A102_6.3 S3 M3LA4	280	A102_6.3 P100 BN100LA4	281
258	77	1.8	5.5	2430	A102_5.5 S3 M3LA4	280	A102_5.5 P100 BN100LA4	281
263	75	2.8	5.4	2700	A202_5.4 S3 M3LA4	284	A202_5.4 P100 BN100LA4	285
304	65	3.2	9.4	2620	A202_9.4 S3 M3SA2	284	A202_9.4 P90 BN90L2	285



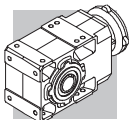
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC 	
1.6	15653	0.9	865.1	75000	A904_865.1 S3 M3LB4	318	A904_865.1 P100 BN100LB4	319
1.8	13876	1.0	766.9	75000	A904_766.9 S3 M3LB4	318	A904_766.9 P100 BN100LB4	319
2.0	12809	1.1	707.9	75000	A904_707.9 S3 M3LB4	318	A904_707.9 P100 BN100LB4	319
2.3	10885	1.3	601.6	75000	A904_601.6 S3 M3LB4	318	A904_601.6 P100 BN100LB4	319
2.5	10047	1.4	555.3	75000	A904_555.3 S3 M3LB4	318	A904_555.3 P100 BN100LB4	319
2.9	8804	1.6	486.6	75000	A904_486.6 S3 M3LB4	318	A904_486.6 P100 BN100LB4	319
2.9	8665	0.9	478.9	65000	A804_478.9 S3 M3LB4	315	A804_478.9 P100 BN100LB4	316
3.1	8127	1.7	449.2	75000	A904_449.2 S3 M3LB4	318	A904_449.2 P100 BN100LB4	319
3.2	7999	1.0	442.1	65000	A804_442.1 S3 M3LB4	315	A804_442.1 P100 BN100LB4	316
3.7	6974	2.0	385.4	75000	A904_385.4 S3 M3LB4	318	A904_385.4 P100 BN100LB4	319
3.7	6938	1.2	383.5	65000	A804_383.5 S3 M3LB4	315	A804_383.5 P100 BN100LB4	316
4.0	6438	2.2	355.8	75000	A904_355.8 S3 M3LB4	318	A904_355.8 P100 BN100LB4	319
4.0	6405	1.2	354.0	65000	A804_354.0 S3 M3LB4	315	A804_354.0 P100 BN100LB4	316
4.5	5724	0.9	316.4	50000	A704_316.4 S3 M3LB4	312	A704_316.4 P100 BN100LB4	313
4.6	5517	2.5	304.9	75000	A904_304.9 S3 M3LB4	318	A904_304.9 P100 BN100LB4	319
4.7	5435	1.5	300.4	65000	A804_300.4 S3 M3LB4	315	A804_300.4 P100 BN100LB4	316
4.8	5284	0.9	292.0	50000	A704_292.0 S3 M3LB4	312	A704_292.0 P100 BN100LB4	313
5.0	5092	2.7	281.4	75000	A904_281.4 S3 M3LB4	318	A904_281.4 P100 BN100LB4	319
5.1	5017	1.6	277.3	65000	A804_277.3 S3 M3LB4	315	A804_277.3 P100 BN100LB4	316
5.9	4317	1.2	238.6	50000	A704_238.6 S3 M3LB4	312	A704_238.6 P100 BN100LB4	313
6.1	4209	1.9	232.6	65000	A804_232.6 S3 M3LB4	315	A804_232.6 P100 BN100LB4	316
6.2	4097	3.4	226.4	75000	A904_226.4 S3 M3LB4	318	A904_226.4 P100 BN100LB4	319
6.4	3985	1.3	220.3	50000	A704_220.3 S3 M3LB4	312	A704_220.3 P100 BN100LB4	313
6.6	3885	2.1	214.7	65000	A804_214.7 S3 M3LB4	315	A804_214.7 P100 BN100LB4	316
7.7	3327	1.5	183.9	50000	A704_183.9 S3 M3LB4	312	A704_183.9 P100 BN100LB4	313
8.2	3172	0.9	171.5	30000	A603_171.5 S3 M3LB4	308	A603_171.5 P100 BN100LB4	309
8.2	3099	2.6	171.3	65000	A804_171.3 S3 M3LB4	315	A804_171.3 P100 BN100LB4	316
8.3	3071	1.6	169.8	50000	A704_169.8 S3 M3LB4	312	A704_169.8 P100 BN100LB4	313
9.0	2901	2.8	156.8	65000	A803_156.8 S3 M3LB4	315	A803_156.8 P100 BN100LB4	316
9.0	2887	1.0	156.0	30000	A603_156.0 S3 M3LB4	308	A603_156.0 P100 BN100LB4	309
9.2	2843	1.4	153.7	50000	A703_153.7 S3 M3LB4	312	A703_153.7 P100 BN100LB4	313
9.7	2678	3.0	144.7	65000	A803_144.7 S3 M3LB4	315	A803_144.7 P100 BN100LB4	316
9.8	2665	1.1	144.0	30000	A603_144.0 S3 M3LB4	308	A603_144.0 P100 BN100LB4	309
9.9	2624	1.9	141.9	50000	A703_141.9 S3 M3LB4	312	A703_141.9 P100 BN100LB4	313
10.6	2466	1.1	133.3	30000	A603_133.3 S3 M3LB4	308	A603_133.3 P100 BN100LB4	309
10.8	2417	2.1	130.7	50000	A703_130.7 S3 M3LB4	312	A703_130.7 P100 BN100LB4	313
11.2	2324	3.4	125.6	65000	A803_125.6 S3 M3LB4	315	A803_125.6 P100 BN100LB4	316
11.5	2276	1.2	123.0	30000	A603_123.0 S3 M3LB4	308	A603_123.0 P100 BN100LB4	309
11.7	2231	2.2	120.6	50000	A703_120.6 S3 M3LB4	312	A703_120.6 P100 BN100LB4	313
13.1	1994	1.4	107.8	30000	A603_107.8 S3 M3LB4	308	A603_107.8 P100 BN100LB4	309
13.5	1928	2.6	104.2	50000	A703_104.2 S3 M3LB4	312	A703_104.2 P100 BN100LB4	313
13.9	1876	1.1	101.4	30000	A553_101.4 S3 M3LB4	304	A553_101.4 P100 BN100LB4	305
14.2	1841	1.5	99.5	30000	A603_99.5 S3 M3LB4	308	A603_99.5 P100 BN100LB4	309
14.7	1780	2.8	96.2	50000	A703_96.2 S3 M3LB4	312	A703_96.2 P100 BN100LB4	313
15.7	1657	0.9	89.5	17100	A503_89.5 S3 M3LB4	300	A503_89.5 P100 BN100LB4	301
16.3	1598	1.8	86.4	30000	A603_86.4 S3 M3LB4	308	A603_86.4 P100 BN100LB4	309
16.4	1590	3.1	85.9	50000	A703_85.9 S3 M3LB4	312	A703_85.9 P100 BN100LB4	313
17.3	1507	1.0	81.5	17200	A503_81.5 S3 M3LB4	300	A503_81.5 P100 BN100LB4	301
17.7	1475	1.9	79.7	30000	A603_79.7 S3 M3LB4	308	A603_79.7 P100 BN100LB4	309
17.7	1471	1.4	79.5	30000	A553_79.5 S3 M3LB4	304	A553_79.5 P100 BN100LB4	305
17.8	1468	3.4	79.3	50000	A703_79.3 S3 M3LB4	312	A703_79.3 P100 BN100LB4	313



3.0 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
20.0	1303	2.1	70.4	30000	A603_70.4 S3 M3LB4	308	A603_70.4 P100 BN100LB4	309
20.1	1299	1.2	70.2	17200	A503_70.2 S3 M3LB4	300	A503_70.2 P100 BN100LB4	301
21.7	1202	2.3	65.0	30000	A603_65.0 S3 M3LB4	308	A603_65.0 P100 BN100LB4	309
21.9	1190	1.7	64.3	30000	A553_64.3 S3 M3LB4	304	A553_64.3 P100 BN100LB4	305
22.1	1182	1.3	63.9	17100	A503_63.9 S3 M3LB4	300	A503_63.9 P100 BN100LB4	301
24.8	1051	1.4	56.8	17000	A503_56.8 S3 M3LB4	300	A503_56.8 P100 BN100LB4	301
25.4	1029	2.7	55.6	30000	A603_55.6 S3 M3LB4	308	A603_55.6 P100 BN100LB4	309
27.3	956	1.6	51.7	16800	A503_51.7 S3 M3LB4	300	A503_51.7 P100 BN100LB4	301
27.5	950	2.9	51.3	30000	A603_51.3 S3 M3LB4	308	A603_51.3 P100 BN100LB4	309
27.7	943	2.1	51.0	30000	A553_51.0 S3 M3LB4	304	A553_51.0 P100 BN100LB4	305
29.2	923	0.9	48.3	12700	A412_48.3 S3 M3LB4	296	A412_48.3 P100 BN100LB4	297
31	861	1.0	45.1	12600	A412_45.1 S3 M3LB4	296	A412_45.1 P100 BN100LB4	297
31	836	3.3	45.2	30000	A603_45.2 S3 M3LB4	308	A603_45.2 P100 BN100LB4	309
31	833	1.8	45.0	16500	A503_45.0 S3 M3LB4	300	A503_45.0 P100 BN100LB4	301
34	757	2.0	40.9	16300	A503_40.9 S3 M3LB4	300	A503_40.9 P100 BN100LB4	301
35	746	2.7	40.3	30000	A553_40.3 S3 M3LB4	304	A553_40.3 P100 BN100LB4	305
38	700	0.9	36.6	8550	A352_36.6 S3 M3LB4	292	A352_36.6 P100 BN100LB4	293
39	686	1.1	35.9	12200	A412_35.9 S3 M3LB4	296	A412_35.9 P100 BN100LB4	297
40	659	2.3	35.6	16000	A503_35.6 S3 M3LB4	300	A503_35.6 P100 BN100LB4	301
43	634	0.9	33.2	8520	A352_33.2 S3 M3LB4	292	A352_33.2 P100 BN100LB4	293
44	599	2.5	32.4	15700	A503_32.4 S3 M3LB4	300	A503_32.4 P100 BN100LB4	301
50	543	1.1	28.4	8420	A352_28.4 S3 M3LB4	292	A352_28.4 P100 BN100LB4	293
50	541	1.3	28.3	11700	A412_28.3 S3 M3LB4	296	A412_28.3 P100 BN100LB4	297
53	489	3.1	26.4	15100	A503_26.4 S3 M3LB4	300	A503_26.4 P100 BN100LB4	301
55	491	1.2	25.7	8330	A352_25.7 S3 M3LB4	292	A352_25.7 P100 BN100LB4	293
59	445	3.4	24.0	14800	A503_24.0 S3 M3LB4	300	A503_24.0 P100 BN100LB4	301
62	435	0.9	22.8	4610	A302_22.8 S3 M3LB4	288	A302_22.8 P100 BN100LB4	289
62	433	1.6	22.7	11200	A412_22.7 S3 M3LB4	296	A412_22.7 P100 BN100LB4	297
63	430	1.4	22.5	8190	A352_22.5 S3 M3LB4	292	A352_22.5 P100 BN100LB4	293
67	400	3.0	20.9	15500	A502_20.9 S3 M3LB4	300	A502_20.9 P100 BN100LB4	301
69	392	1.0	20.5	4620	A302_20.5 S3 M3LB4	288	A302_20.5 P100 BN100LB4	289
69	390	1.5	20.4	8080	A352_20.4 S3 M3LB4	292	A352_20.4 P100 BN100LB4	293
78	344	1.2	18.0	4600	A302_18.0 S3 M3LB4	288	A302_18.0 P100 BN100LB4	289
79	339	1.9	17.8	10600	A412_17.8 S3 M3LB4	296	A412_17.8 P100 BN100LB4	297
83	324	1.9	17.0	7830	A352_17.0 S3 M3LB4	292	A352_17.0 P100 BN100LB4	293
86	312	1.2	16.3	4580	A302_16.3 S3 M3LB4	288	A302_16.3 P100 BN100LB4	289
88	308	2.0	16.1	10400	A412_16.1 S3 M3LB4	296	A412_16.1 P100 BN100LB4	297
91	296	2.0	15.5	7700	A352_15.5 S3 M3LB4	292	A352_15.5 P100 BN100LB4	293
100	269	0.9	14.1	2650	A202_14.1 S3 M3LB4	284	A202_14.1 P100 BN100LB4	285
102	263	2.2	13.8	9990	A412_13.8 S3 M3LB4	296	A412_13.8 P100 BN100LB4	297
104	259	1.4	13.6	4500	A302_13.6 S3 M3LB4	288	A302_13.6 P100 BN100LB4	289
108	250	2.4	13.1	7450	A352_13.1 S3 M3LB4	292	A352_13.1 P100 BN100LB4	293
118	229	0.9	12.0	2670	A202_12.0 S3 M3LB4	284	A202_12.0 P100 BN100LB4	285
120	225	1.3	11.8	4400	A302_11.8 S3 M3LB4	288	A302_11.8 P100 BN100LB4	289
120	225	1.8	11.8	7410	A352_11.8 S3 M3LB4	292	A352_11.8 P100 BN100LB4	293
120	224	2.5	11.7	9580	A412_11.7 S3 M3LB4	296	A412_11.7 P100 BN100LB4	297
124	218	1.5	23.1	2690	A202_23.1 S3 M3LA2	284	A202_23.1 P100 BN100L2	285
133	203	2.0	10.6	7230	A352_10.6 S3 M3LB4	292	A352_10.6 P100 BN100LB4	293
135	200	1.7	10.5	4350	A302_10.5 S3 M3LB4	288	A302_10.5 P100 BN100LB4	289
136	198	1.1	10.3	2690	A202_10.3 S3 M3LB4	284	A202_10.3 P100 BN100LB4	285
139	194	2.8	10.1	9230	A412_10.1 S3 M3LB4	296	A412_10.1 P100 BN100LB4	297

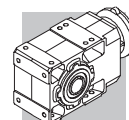


3.0 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC 	
150	179	1.2	9.4	2670	A202_9.4 S3 M3LB4	284	A202_9.4 P100 BN100LB4	285
151	178	1.7	9.3	4240	A302_9.3 S3 M3LB4	288	A302_9.3 P100 BN100LB4	289
151	178	2.2	9.3	7000	A352_9.3 S3 M3LB4	292	A352_9.3 P100 BN100LB4	293
153	176	3.1	9.2	8980	A412_9.2 S3 M3LB4	296	A412_9.2 P100 BN100LB4	297
167	162	1.9	8.5	4170	A302_8.5 S3 M3LB4	288	A302_8.5 P100 BN100LB4	289
167	162	2.4	8.5	6840	A352_8.5 S3 M3LB4	292	A352_8.5 P100 BN100LB4	293
168	160	1.3	8.4	2650	A202_8.4 S3 M3LB4	284	A202_8.4 P100 BN100LB4	285
169	159	3.5	8.3	8740	A412_8.3 S3 M3LB4	296	A412_8.3 P100 BN100LB4	297
193	139	1.5	7.3	2620	A202_7.3 S3 M3LB4	284	A202_7.3 P100 BN100LB4	285
196	138	1.0	7.2	2220	A102_7.2 S3 M3LB4	280	A102_7.2 P100 BN100LB4	281
201	134	2.2	7.0	4030	A302_7.0 S3 M3LB4	288	A302_7.0 P100 BN100LB4	289
201	134	2.8	7.0	6520	A352_7.0 S3 M3LB4	292	A352_7.0 P100 BN100LB4	293
216	125	1.7	6.5	2590	A202_6.5 S3 M3LB4	284	A202_6.5 P100 BN100LB4	285
220	123	2.4	6.4	3950	A302_6.4 S3 M3LB4	288	A302_6.4 P100 BN100LB4	289
220	123	2.9	6.4	6360	A352_6.4 S3 M3LB4	292	A352_6.4 P100 BN100LB4	293
223	121	1.2	6.3	2640	A102_6.3 S3 M3LB4	280	A102_6.3 P100 BN100LB4	281
243	111	2.7	11.8	3870	A302_11.8 S3 M3LA2	288	A302_11.8 P100 BN100L2	289
258	104	1.3	5.5	2200	A102_5.5 S3 M3LB4	280	A102_5.5 P100 BN100LB4	281
260	103	2.9	5.4	3810	A302_5.4 S3 M3LB4	288	A302_5.4 P100 BN100LB4	289
260	103	3.3	5.4	6070	A352_5.4 S3 M3LB4	292	A352_5.4 P100 BN100LB4	293
263	102	2.1	5.4	2520	A202_5.4 S3 M3LB4	284	A202_5.4 P100 BN100LB4	285
277	97	1.9	10.3	2500	A202_10.3 S3 M3LA2	284	A202_10.3 P100 BN100L2	285
307	88	3.4	9.3	3670	A302_9.3 S3 M3LA2	288	A302_9.3 P100 BN100L2	289
342	79	2.7	8.4	2410	A202_8.4 S3 M3LA2	284	A202_8.4 P100 BN100L2	285
397	68	2.1	7.2	2090	A102_7.2 S3 M3LA2	280	A102_7.2 P100 BN100L2	281
451	60	2.3	6.3	2430	A102_6.3 S3 M3LA2	280	A102_6.3 P100 BN100L2	281
523	51	2.6	5.5	1990	A102_5.5 S3 M3LA2	280	A102_5.5 P100 BN100L2	281

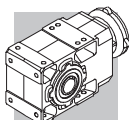
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC 	
2.3	14616	1.0	601.6	75000	A904_601.6 S3 M3LC4	318	A904_601.6 P112 BN112M4	319
2.5	13492	1.0	555.3	75000	A904_555.3 S3 M3LC4	318	A904_555.3 P112 BN112M4	319
2.9	11823	1.2	486.6	75000	A904_486.6 S3 M3LC4	318	A904_486.6 P112 BN112M4	319
3.1	10913	1.3	449.2	75000	A904_449.2 S3 M3LC4	318	A904_449.2 P112 BN112M4	319
3.6	9365	1.5	385.4	75000	A904_385.4 S3 M3LC4	318	A904_385.4 P112 BN112M4	319
3.7	9317	0.9	383.5	65000	A804_383.5 S3 M3LC4	315	A804_383.5 P112 BN112M4	316
3.9	8645	1.6	355.8	75000	A904_355.8 S3 M3LC4	318	A904_355.8 P112 BN112M4	319
4.0	8600	0.9	354.0	65000	A804_354.0 S3 M3LC4	315	A804_354.0 P112 BN112M4	316
4.6	7408	1.9	304.9	75000	A904_304.9 S3 M3LC4	318	A904_304.9 P112 BN112M4	319
4.7	7299	1.1	300.4	65000	A804_300.4 S3 M3LC4	315	A804_300.4 P112 BN112M4	316
5.0	6838	2.0	281.4	75000	A904_281.4 S3 M3LC4	318	A904_281.4 P112 BN112M4	319
5.0	6737	1.2	277.3	65000	A804_277.3 S3 M3LC4	315	A804_277.3 P112 BN112M4	316
5.9	5797	0.9	238.6	50000	A704_238.6 S3 M3LC4	312	A704_238.6 P112 BN112M4	313
6.0	5652	1.4	232.6	65000	A804_232.6 S3 M3LC4	315	A804_232.6 P112 BN112M4	316
6.2	5502	2.5	226.4	75000	A904_226.4 S3 M3LC4	318	A904_226.4 P112 BN112M4	319
6.4	5352	0.9	220.3	50000	A704_220.3 S3 M3LC4	312	A704_220.3 P112 BN112M4	313
6.5	5217	1.5	214.7	65000	A804_214.7 S3 M3LC4	315	A804_214.7 P112 BN112M4	316



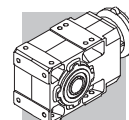
4.0 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
6.7	5078	2.8	209.0	75000	A904_209.0 S3 M3LC4	318	A904_209.0 P112 BN112M4	319
7.6	4468	1.1	183.9	50000	A704_183.9 S3 M3LC4	312	A704_183.9 P112 BN112M4	313
7.8	4373	3.2	180.0	75000	A904_180.0 S3 M3LC4	318	A904_180.0 P112 BN112M4	319
8.2	4162	1.9	171.3	65000	A804_171.3 S3 M3LC4	315	A804_171.3 P112 BN112M4	316
8.2	4125	1.2	169.8	50000	A704_169.8 S3 M3LC4	312	A704_169.8 P112 BN112M4	313
8.4	4036	3.5	166.1	75000	A904_166.1 S3 M3LC4	318	A904_166.1 P112 BN112M4	319
8.9	3895	2.1	156.8	65000	A803_156.8 S3 M3LC4	315	A803_156.8 P112 BN112M4	316
9.1	3818	1.1	153.7	50000	A703_153.7 S3 M3LC4	312	A703_153.7 P112 BN112M4	313
9.7	3596	2.2	144.7	65000	A803_144.7 S3 M3LC4	315	A803_144.7 P112 BN112M4	316
9.9	3524	1.4	141.9	50000	A703_141.9 S3 M3LC4	312	A703_141.9 P112 BN112M4	313
10.7	3246	1.5	130.7	50000	A703_130.7 S3 M3LC4	312	A703_130.7 P112 BN112M4	313
11.1	3121	2.6	125.6	65000	A803_125.6 S3 M3LC4	315	A803_125.6 P112 BN112M4	316
11.4	3056	0.9	123.0	30000	A603_123.0 S3 M3LC4	308	A603_123.0 P112 BN112M4	309
11.6	2996	1.7	120.6	50000	A703_120.6 S3 M3LC4	312	A703_120.6 P112 BN112M4	313
12.1	2881	2.8	116.0	65000	A803_116.0 S3 M3LC4	315	A803_116.0 P112 BN112M4	316
13.0	2678	1.0	107.8	30000	A603_107.8 S3 M3LC4	308	A603_107.8 P112 BN112M4	309
13.4	2590	1.9	104.2	50000	A703_104.2 S3 M3LC4	312	A703_104.2 P112 BN112M4	313
13.5	2584	3.1	104.0	65000	A803_104.0 S3 M3LC4	315	A803_104.0 P112 BN112M4	316
14.1	2472	1.1	99.5	30000	A603_99.5 S3 M3LC4	308	A603_99.5 P112 BN112M4	309
14.6	2390	2.1	96.2	50000	A703_96.2 S3 M3LC4	312	A703_96.2 P112 BN112M4	313
14.6	2386	3.4	96.0	65000	A803_96.0 S3 M3LC4	315	A803_96.0 P112 BN112M4	316
16.2	2146	1.3	86.4	30000	A603_86.4 S3 M3LC4	308	A603_86.4 P112 BN112M4	309
16.3	2135	2.3	85.9	50000	A703_85.9 S3 M3LC4	312	A703_85.9 P112 BN112M4	313
17.6	1980	1.4	79.7	30000	A603_79.7 S3 M3LC4	308	A603_79.7 P112 BN112M4	309
17.6	1976	1.0	79.5	30000	A553_79.5 S3 M3LC4	304	A553_79.5 P112 BN112M4	305
17.6	1971	2.5	79.3	50000	A703_79.3 S3 M3LC4	312	A703_79.3 P112 BN112M4	313
19.3	1802	2.8	72.5	50000	A703_72.5 S3 M3LC4	312	A703_72.5 P112 BN112M4	313
19.9	1749	1.6	70.4	30000	A603_70.4 S3 M3LC4	308	A603_70.4 P112 BN112M4	309
20.9	1663	3.0	66.9	50000	A703_66.9 S3 M3LC4	312	A703_66.9 P112 BN112M4	313
21.5	1615	1.7	65.0	30000	A603_65.0 S3 M3LC4	308	A603_65.0 P112 BN112M4	309
21.8	1598	1.3	64.3	30000	A553_64.3 S3 M3LC4	304	A553_64.3 P112 BN112M4	305
21.9	1587	0.9	63.9	14700	A503_63.9 S3 M3LC4	300	A503_63.9 P112 BN112M4	301
24.6	1411	1.1	56.8	14800	A503_56.8 S3 M3LC4	300	A503_56.8 P112 BN112M4	301
25.2	1381	2.0	55.6	30000	A603_55.6 S3 M3LC4	308	A603_55.6 P112 BN112M4	309
27.1	1284	1.2	51.7	14900	A503_51.7 S3 M3LC4	300	A503_51.7 P112 BN112M4	301
27.3	1275	2.2	51.3	30000	A603_51.3 S3 M3LC4	308	A603_51.3 P112 BN112M4	309
28	1266	1.6	51.0	30000	A553_51.0 S3 M3LC4	304	A553_51.0 P112 BN112M4	305
31	1123	2.5	45.2	30000	A603_45.2 S3 M3LC4	308	A603_45.2 P112 BN112M4	309
31	1118	1.3	45.0	14900	A503_45.0 S3 M3LC4	300	A503_45.0 P112 BN112M4	301
34	1036	2.7	41.7	30000	A603_41.7 S3 M3LC4	308	A603_41.7 P112 BN112M4	309
34	1017	1.5	40.9	14800	A503_40.9 S3 M3LC4	300	A503_40.9 P112 BN112M4	301
35	1001	2.0	40.3	30000	A553_40.3 S3 M3LC4	304	A553_40.3 P112 BN112M4	305
39	884	1.7	35.6	14700	A503_35.6 S3 M3LC4	300	A503_35.6 P112 BN112M4	301
41	852	3.3	34.3	30000	A603_34.3 S3 M3LC4	308	A603_34.3 P112 BN112M4	309
43	804	1.9	32.4	14500	A503_32.4 S3 M3LC4	300	A503_32.4 P112 BN112M4	301
47	744	2.7	29.9	30000	A553_29.9 S3 M3LC4	304	A553_29.9 P112 BN112M4	305
49	727	1.0	28.3	10900	A412_28.3 S3 M3LC4	296	A412_28.3 P112 BN112M4	297
53	657	2.3	26.4	14100	A503_26.4 S3 M3LC4	300	A503_26.4 P112 BN112M4	301
55	659	0.9	25.7	7420	A352_25.7 S3 M3LC4	292	A352_25.7 P112 BN112M4	293
58	597	2.5	24.0	13900	A503_24.0 S3 M3LC4	300	A503_24.0 P112 BN112M4	301
59	591	3.3	23.8	30000	A553_23.8 S3 M3LC4	304	A553_23.8 P112 BN112M4	305



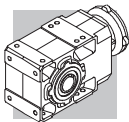
4.0 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N				
62	582	1.2	22.7	10500	A412_22.7 S3 M3LC4	296	A412_22.7 P112 BN112M4	297
62	577	1.0	22.5	7400	A352_22.5 S3 M3LC4	292	A352_22.5 P112 BN112M4	293
67	537	2.2	20.9	15100	A502_20.9 S3 M3LC4	300	A502_20.9 P112 BN112M4	301
69	524	1.1	20.4	7360	A352_20.4 S3 M3LC4	292	A352_20.4 P112 BN112M4	293
78	462	0.9	18.0	3930	A302_18.0 S3 M3LC4	288	A302_18.0 P112 BN112M4	289
79	456	1.4	17.8	10100	A412_17.8 S3 M3LC4	296	A412_17.8 P112 BN112M4	297
83	435	1.4	17.0	7240	A352_17.0 S3 M3LC4	292	A352_17.0 P112 BN112M4	293
84	425	2.8	16.6	14200	A502_16.6 S3 M3LC4	300	A502_16.6 P112 BN112M4	301
86	419	0.9	16.3	3970	A302_16.3 S3 M3LC4	288	A302_16.3 P112 BN112M4	289
87	413	1.5	16.1	9940	A412_16.1 S3 M3LC4	296	A412_16.1 P112 BN112M4	297
90	397	1.5	15.5	7160	A352_15.5 S3 M3LC4	292	A352_15.5 P112 BN112M4	293
102	353	1.7	13.8	9610	A412_13.8 S3 M3LC4	296	A412_13.8 P112 BN112M4	297
103	348	1.1	13.6	4000	A302_13.6 S3 M3LC4	288	A302_13.6 P112 BN112M4	289
107	336	3.3	13.1	13300	A502_13.1 S3 M3LC4	300	A502_13.1 P112 BN112M4	301
107	335	1.8	13.1	7000	A352_13.1 S3 M3LC4	292	A352_13.1 P112 BN112M4	293
119	302	1.0	11.8	3960	A302_11.8 S3 M3LC4	288	A302_11.8 P112 BN112M4	289
119	302	1.3	11.8	7050	A352_11.8 S3 M3LC4	292	A352_11.8 P112 BN112M4	293
119	301	1.8	11.7	9260	A412_11.7 S3 M3LC4	296	A412_11.7 P112 BN112M4	297
126	285	1.2	22.8	3980	A302_22.8 S3 M3LB2	288	A302_22.8 P112 BN112M2	289
132	273	1.5	10.6	6910	A352_10.6 S3 M3LC4	292	A352_10.6 P112 BN112M4	293
134	268	1.3	10.5	3970	A302_10.5 S3 M3LC4	288	A302_10.5 P112 BN112M4	289
138	260	2.1	10.1	8960	A412_10.1 S3 M3LC4	296	A412_10.1 P112 BN112M4	297
150	239	1.3	9.3	3900	A302_9.3 S3 M3LC4	288	A302_9.3 P112 BN112M4	289
150	239	1.7	9.3	6730	A352_9.3 S3 M3LC4	292	A352_9.3 P112 BN112M4	293
152	236	2.3	9.2	8740	A412_9.2 S3 M3LC4	296	A412_9.2 P112 BN112M4	297
165	217	1.4	8.5	3860	A302_8.5 S3 M3LC4	288	A302_8.5 P112 BN112M4	289
165	217	1.8	8.5	6590	A352_8.5 S3 M3LC4	292	A352_8.5 P112 BN112M4	293
167	215	1.0	8.4	2300	A202_8.4 S3 M3LC4	284	A202_8.4 P112 BN112M4	285
168	214	2.6	8.3	8520	A412_8.3 S3 M3LC4	296	A412_8.3 P112 BN112M4	297
192	187	1.1	7.3	2310	A202_7.3 S3 M3LC4	284	A202_7.3 P112 BN112M4	285
197	183	3.0	7.1	8180	A412_7.1 S3 M3LC4	296	A412_7.1 P112 BN112M4	297
199	180	1.7	7.0	3770	A302_7.0 S3 M3LC4	288	A302_7.0 P112 BN112M4	289
199	180	2.1	7.0	6310	A352_7.0 S3 M3LC4	292	A352_7.0 P112 BN112M4	293
214	168	1.3	6.5	2310	A202_6.5 S3 M3LC4	284	A202_6.5 P112 BN112M4	285
218	165	1.8	6.4	3720	A302_6.4 S3 M3LC4	288	A302_6.4 P112 BN112M4	289
218	165	2.1	6.4	6180	A352_6.4 S3 M3LC4	292	A352_6.4 P112 BN112M4	293
256	140	1.0	5.5	1910	A102_5.5 S3 M3LC4	280	A102_5.5 P112 BN112M4	281
259	139	2.2	5.4	3610	A302_5.4 S3 M3LC4	288	A302_5.4 P112 BN112M4	289
259	139	2.4	5.4	5920	A352_5.4 S3 M3LC4	292	A352_5.4 P112 BN112M4	293
262	137	1.5	5.4	2300	A202_5.4 S3 M3LC4	284	A202_5.4 P112 BN112M4	285
270	133	3.0	10.6	5850	A352_10.6 S3 M3LB2	292	A352_10.6 P112 BN112M2	293
308	117	3.4	9.3	5650	A352_9.3 S3 M3LB2	292	A352_9.3 P112 BN112M2	293
343	105	2.1	8.4	2230	A202_8.4 S3 M3LB2	284	A202_8.4 P112 BN112M2	285
409	88	3.4	7.0	3280	A302_7.0 S3 M3LB2	288	A302_7.0 P112 BN112M2	289
453	79	1.7	6.3	2240	A102_6.3 S3 M3LB2	280	A102_6.3 P112 BN112M2	281
536	67	2.8	5.4	2080	A202_5.4 S3 M3LB2	284	A202_5.4 P112 BN112M2	285



5.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
3.0	15805	0.9	486.6	75000	A904_486.6 S4 M4SA4	318	A904_486.6 P132 BN132S4	319
3.2	14589	1.0	449.2	75000	A904_449.2 S4 M4SA4	318	A904_449.2 P132 BN132S4	319
3.7	12519	1.1	385.4	75000	A904_385.4 S4 M4SA4	318	A904_385.4 P132 BN132S4	319
4.0	11556	1.2	355.8	75000	A904_355.8 S4 M4SA4	318	A904_355.8 P132 BN132S4	319
4.7	9903	1.4	304.9	75000	A904_304.9 S4 M4SA4	318	A904_304.9 P132 BN132S4	319
5.1	9141	1.5	281.4	75000	A904_281.4 S4 M4SA4	318	A904_281.4 P132 BN132S4	319
5.2	9006	0.9	277.3	65000	A804_277.3 S4 M4SA4	315	A804_277.3 P132 BN132S4	316
6.2	7556	1.1	232.6	65000	A804_232.6 S4 M4SA4	315	A804_232.6 P132 BN132S4	316
6.4	7354	1.9	226.4	75000	A904_226.4 S4 M4SA4	318	A904_226.4 P132 BN132S4	319
6.7	6975	1.1	214.7	65000	A804_214.7 S4 M4SA4	315	A804_214.7 P132 BN132S4	316
6.9	6789	2.1	209.0	75000	A904_209.0 S4 M4SA4	318	A904_209.0 P132 BN132S4	319
8.0	5846	2.4	180.0	75000	A904_180.0 S4 M4SA4	318	A904_180.0 P132 BN132S4	319
8.4	5564	1.4	171.3	65000	A804_171.3 S4 M4SA4	315	A804_171.3 P132 BN132S4	316
8.5	5514	0.9	169.8	50000	A704_169.8 S4 M4SA4	312	A704_169.8 P132 BN132S4	313
8.7	5396	2.6	166.1	75000	A904_166.1 S4 M4SA4	318	A904_166.1 P132 BN132S4	319
9.2	5207	1.5	156.8	65000	A803_156.8 S4 M4SA4	315	A803_156.8 P132 BN132S4	316
9.5	5015	2.8	151.0	75000	A903_151.0 S4 M4SA4	318	A903_151.0 P132 BN132S4	319
9.9	4807	1.7	144.7	65000	A803_144.7 S4 M4SA4	315	A803_144.7 P132 BN132S4	316
10.2	4711	1.1	141.9	50000	A703_141.9 S4 M4SA4	312	A703_141.9 P132 BN132S4	313
10.3	4629	2.8	139.4	75000	A903_139.4 S4 M4SA4	318	A903_139.4 P132 BN132S4	319
11.0	4339	1.2	130.7	50000	A703_130.7 S4 M4SA4	312	A703_130.7 P132 BN132S4	313
11.4	4206	3.1	126.6	75000	A903_126.6 S4 M4SA4	318	A903_126.6 P132 BN132S4	319
11.5	4172	1.9	125.6	65000	A803_125.6 S4 M4SA4	315	A803_125.6 P132 BN132S4	316
11.9	4006	1.2	120.6	50000	A703_120.6 S4 M4SA4	312	A703_120.6 P132 BN132S4	313
12.4	3851	2.1	116.0	65000	A803_116.0 S4 M4SA4	315	A803_116.0 P132 BN132S4	316
13.8	3462	1.4	104.2	50000	A703_104.2 S4 M4SA4	312	A703_104.2 P132 BN132S4	313
13.8	3455	2.3	104.0	65000	A803_104.0 S4 M4SA4	315	A803_104.0 P132 BN132S4	316
15.0	3195	1.6	96.2	50000	A703_96.2 S4 M4SA4	312	A703_96.2 P132 BN132S4	313
15.0	3189	2.5	96.0	65000	A803_96.0 S4 M4SA4	315	A803_96.0 P132 BN132S4	316
16.1	2962	2.7	89.2	65000	A803_89.2 S4 M4SA4	315	A803_89.2 P132 BN132S4	316
16.7	2868	1.0	86.4	30000	A603_86.4 S4 M4SA4	308	A603_86.4 P132 BN132S4	309
16.8	2854	1.8	85.9	50000	A703_85.9 S4 M4SA4	312	A703_85.9 P132 BN132S4	313
17.5	2734	2.9	82.3	65000	A803_82.3 S4 M4SA4	315	A803_82.3 P132 BN132S4	316
18.1	2648	1.1	79.7	30000	A603_79.7 S4 M4SA4	308	A603_79.7 P132 BN132S4	309
18.2	2635	1.9	79.3	50000	A703_79.3 S4 M4SA4	312	A703_79.3 P132 BN132S4	313
19.9	2408	2.1	72.5	50000	A703_72.5 S4 M4SA4	312	A703_72.5 P132 BN132S4	313
19.9	2403	3.3	72.4	65000	A803_72.4 S4 M4SA4	315	A803_72.4 P132 BN132S4	316
20.5	2338	1.2	70.4	30000	A603_70.4 S4 M4SA4	308	A603_70.4 P132 BN132S4	309
21.5	2223	2.2	66.9	50000	A703_66.9 S4 M4SA4	312	A703_66.9 P132 BN132S4	313
22.2	2158	1.3	65.0	30000	A603_65.0 S4 M4SA4	308	A603_65.0 P132 BN132S4	309
22.4	2136	0.9	64.3	30000	A553_64.3 S4 M4SA4	304	A553_64.3 P132 BN132S4	305
25.0	1915	2.6	57.7	50000	A703_57.7 S4 M4SA4	312	A703_57.7 P132 BN132S4	313
25.9	1847	1.5	55.6	30000	A603_55.6 S4 M4SA4	308	A603_55.6 P132 BN132S4	309
27.1	1768	2.8	53.2	50000	A703_53.2 S4 M4SA4	312	A703_53.2 P132 BN132S4	313
28.1	1705	1.6	51.3	30000	A603_51.3 S4 M4SA4	308	A603_51.3 P132 BN132S4	309
28.3	1692	1.2	51.0	30000	A553_51.0 S4 M4SA4	304	A553_51.0 P132 BN132S4	305
29.4	1627	3.1	49.0	50000	A703_49.0 S4 M4SA4	312	A703_49.0 P132 BN132S4	313
32	1502	3.2	45.2	50000	A703_45.2 S4 M4SA4	312	A703_45.2 P132 BN132S4	313
32	1501	1.9	45.2	30000	A603_45.2 S4 M4SA4	308	A603_45.2 P132 BN132S4	309
32	1495	1.0	45.0	12400	A503_45.0 S4 M4SA4	300	A503_45.0 P132 BN132S4	301
35	1385	2.0	41.7	30000	A603_41.7 S4 M4SA4	308	A603_41.7 P132 BN132S4	309

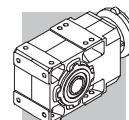


5.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N				
35	1360	1.1	40.9	12600	A503_40.9 S4 M4SA4	300	A503_40.9 P132 BN132S4	301
36	1338	1.5	40.3	30000	A553_40.3 S4 M4SA4	304	A553_40.3 P132 BN132S4	305
40	1182	1.3	35.6	12700	A503_35.6 S4 M4SA4	300	A503_35.6 P132 BN132S4	301
42	1139	2.5	34.3	30000	A603_34.3 S4 M4SA4	308	A603_34.3 P132 BN132S4	309
44	1075	1.4	32.4	12700	A503_32.4 S4 M4SA4	300	A503_32.4 P132 BN132S4	301
45	1051	2.7	31.7	30000	A603_31.7 S4 M4SA4	308	A603_31.7 P132 BN132S4	309
48	994	2.0	29.9	30000	A553_29.9 S4 M4SA4	304	A553_29.9 P132 BN132S4	305
52	925	3.0	27.9	30000	A603_27.9 S4 M4SA4	308	A603_27.9 P132 BN132S4	309
54	878	1.7	26.4	12600	A503_26.4 S4 M4SA4	300	A503_26.4 P132 BN132S4	301
56	854	3.3	25.7	30000	A603_25.7 S4 M4SA4	308	A603_25.7 P132 BN132S4	309
60	799	1.9	24.0	12500	A503_24.0 S4 M4SA4	300	A503_24.0 P132 BN132S4	301
61	790	2.5	23.8	29800	A553_23.8 S4 M4SA4	304	A553_23.8 P132 BN132S4	305
69	718	1.7	20.9	14400	A502_20.9 S4 M4SA4	300	A502_20.9 P132 BN132S4	301
70	706	2.8	20.6	30000	A602_20.6 S4 M4SA4	308	A602_20.6 P132 BN132S4	309
75	660	2.7	19.2	29300	A552_19.2 S4 M4SA4	304	A552_19.2 P132 BN132S4	305
81	609	1.0	17.8	9280	A412_17.8 S4 M4SA4	296	A412_17.8 P132 BN132S4	297
86	574	3.5	16.7	30000	A602_16.7 S4 M4SA4	308	A602_16.7 P132 BN132S4	309
87	568	2.1	16.6	13600	A502_16.6 S4 M4SA4	300	A502_16.6 P132 BN132S4	301
89	552	1.1	16.1	9160	A412_16.1 S4 M4SA4	296	A412_16.1 P132 BN132S4	297
92	538	3.3	15.7	27700	A552_15.7 S4 M4SA4	304	A552_15.7 P132 BN132S4	305
105	472	1.2	13.8	8940	A412_13.8 S4 M4SA4	296	A412_13.8 P132 BN132S4	297
110	450	2.4	13.1	12800	A502_13.1 S4 M4SA4	300	A502_13.1 P132 BN132S4	301
122	404	1.0	11.8	6450	A352_11.8 S4 M4SA4	292	A352_11.8 P132 BN132S4	293
123	403	1.4	11.7	8670	A412_11.7 S4 M4SA4	296	A412_11.7 P132 BN132S4	297
135	365	1.1	10.6	6360	A352_10.6 S4 M4SA4	292	A352_10.6 P132 BN132S4	293
142	348	1.5	10.1	8440	A412_10.1 S4 M4SA4	296	A412_10.1 P132 BN132S4	297
148	334	3.0	9.7	11800	A502_9.7 S4 M4SA4	300	A502_9.7 P132 BN132S4	301
155	319	1.3	9.3	6240	A352_9.3 S4 M4SA4	292	A352_9.3 P132 BN132S4	293
157	316	1.7	9.2	8250	A412_9.2 S4 M4SA4	296	A412_9.2 P132 BN132S4	297
170	290	1.3	8.5	6140	A352_8.5 S4 M4SA4	292	A352_8.5 P132 BN132S4	293
173	286	1.9	8.3	8080	A412_8.3 S4 M4SA4	296	A412_8.3 P132 BN132S4	297
202	244	2.3	7.1	7790	A412_7.1 S4 M4SA4	296	A412_7.1 P132 BN132S4	297
205	241	1.5	7.0	5930	A352_7.0 S4 M4SA4	292	A352_7.0 P132 BN132S4	293
225	220	1.6	6.4	5820	A352_6.4 S4 M4SA4	292	A352_6.4 P132 BN132S4	293
246	201	2.7	11.7	7430	A412_11.7 S4 M4SA2	296	A412_11.7 P132 BN132SA2	297
266	186	1.8	5.4	5610	A352_5.4 S4 M4SA4	292	A352_5.4 P132 BN132S4	293
275	180	3.1	5.2	7230	A412_5.2 S4 M4SA4	296	A412_5.2 P132 BN132S4	297
285	173	2.5	10.1	7170	A412_10.1 S4 M4SA2	296	A412_10.1 P132 BN132SA2	297
411	120	3.1	7.0	5060	A352_7.0 S4 M4SA2	292	A352_7.0 P132 BN132SA2	293

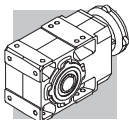
7.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N				
4.0	15759	0.9	355.8	75000	A904_355.8 S4 M4LA4	318	A904_355.8 P132 BN132MA4	319
4.7	13504	1.0	304.9	75000	A904_304.9 S4 M4LA4	318	A904_304.9 P132 BN132MA4	319
5.1	12465	1.1	281.4	75000	A904_281.4 S4 M4LA4	318	A904_281.4 P132 BN132MA4	319
6.4	10029	1.4	226.4	75000	A904_226.4 S4 M4LA4	318	A904_226.4 P132 BN132MA4	319
6.9	9257	1.5	209.0	75000	A904_209.0 S4 M4LA4	318	A904_209.0 P132 BN132MA4	319



7.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
8.0	7971	1.8	180.0	75000	A904_180.0 S4 M4LA4	318	A904_180.0 P132 BN132MA4	319
8.4	7587	1.1	171.3	65000	A804_171.3 S4 M4LA4	315	A804_171.3 P132 BN132MA4	316
8.7	7358	1.9	166.1	75000	A904_166.1 S4 M4LA4	318	A904_166.1 P132 BN132MA4	319
9.2	7101	1.1	156.8	65000	A803_156.8 S4 M4LA4	315	A803_156.8 P132 BN132MA4	316
9.5	6839	2.0	151.0	75000	A903_151.0 S4 M4LA4	318	A903_151.0 P132 BN132MA4	319
9.9	6555	1.2	144.7	65000	A803_144.7 S4 M4LA4	315	A803_144.7 P132 BN132MA4	316
10.3	6313	2.0	139.4	75000	A903_139.4 S4 M4LA4	318	A903_139.4 P132 BN132MA4	319
11.4	5735	2.3	126.6	75000	A903_126.6 S4 M4LA4	318	A903_126.6 P132 BN132MA4	319
11.5	5689	1.4	125.6	65000	A803_125.6 S4 M4LA4	315	A803_125.6 P132 BN132MA4	316
11.9	5462	0.9	120.6	50000	A703_120.6 S4 M4LA4	312	A703_120.6 P132 BN132MA4	313
12.3	5294	2.6	116.9	75000	A903_116.9 S4 M4LA4	318	A903_116.9 P132 BN132MA4	319
12.4	5251	1.5	116.0	65000	A803_116.0 S4 M4LA4	315	A803_116.0 P132 BN132MA4	316
13.5	4838	2.9	106.8	75000	A903_106.8 S4 M4LA4	318	A903_106.8 P132 BN132MA4	319
13.8	4721	1.1	104.2	50000	A703_104.2 S4 M4LA4	312	A703_104.2 P132 BN132MA4	313
13.8	4711	1.7	104.0	65000	A803_104.0 S4 M4LA4	315	A803_104.0 P132 BN132MA4	316
14.6	4465	3.1	98.6	75000	A903_98.6 S4 M4LA4	318	A903_98.6 P132 BN132MA4	319
15.0	4357	1.1	96.2	50000	A703_96.2 S4 M4LA4	312	A703_96.2 P132 BN132MA4	313
15.0	4349	1.8	96.0	65000	A803_96.0 S4 M4LA4	315	A803_96.0 P132 BN132MA4	316
16.1	4039	2.0	89.2	65000	A803_89.2 S4 M4LA4	315	A803_89.2 P132 BN132MA4	316
16.8	3892	1.3	85.9	50000	A703_85.9 S4 M4LA4	312	A703_85.9 P132 BN132MA4	313
17.5	3728	2.1	82.3	65000	A803_82.3 S4 M4LA4	315	A803_82.3 P132 BN132MA4	316
18.2	3593	1.4	79.3	50000	A703_79.3 S4 M4LA4	312	A703_79.3 P132 BN132MA4	313
19.9	3284	1.5	72.5	50000	A703_72.5 S4 M4LA4	312	A703_72.5 P132 BN132MA4	313
19.9	3277	2.4	72.4	65000	A803_72.4 S4 M4LA4	315	A803_72.4 P132 BN132MA4	316
20.5	3188	0.9	70.4	30000	A603_70.4 S4 M4LA4	308	A603_70.4 P132 BN132MA4	309
21.5	3032	1.6	66.9	50000	A703_66.9 S4 M4LA4	312	A703_66.9 P132 BN132MA4	313
21.6	3025	2.6	66.8	65000	A803_66.8 S4 M4LA4	315	A803_66.8 P132 BN132MA4	316
22.2	2943	1.0	65.0	30000	A603_65.0 S4 M4LA4	308	A603_65.0 P132 BN132MA4	309
24.1	2707	3.0	59.8	63800	A803_59.8 S4 M4LA4	315	A803_59.8 P132 BN132MA4	316
25.0	2612	1.9	57.7	50000	A703_57.7 S4 M4LA4	312	A703_57.7 P132 BN132MA4	313
25.9	2518	1.1	55.6	30000	A603_55.6 S4 M4LA4	308	A603_55.6 P132 BN132MA4	309
26.1	2499	3.2	55.2	62600	A803_55.2 S4 M4LA4	315	A803_55.2 P132 BN132MA4	316
27.1	2411	2.1	53.2	50000	A703_53.2 S4 M4LA4	312	A703_53.2 P132 BN132MA4	313
28.1	2324	1.2	51.3	30000	A603_51.3 S4 M4LA4	308	A603_51.3 P132 BN132MA4	309
29.4	2219	2.3	49.0	50000	A703_49.0 S4 M4LA4	312	A703_49.0 P132 BN132MA4	313
32	2048	2.3	45.2	50000	A703_45.2 S4 M4LA4	312	A703_45.2 P132 BN132MA4	313
32	2046	1.4	45.2	30000	A603_45.2 S4 M4LA4	308	A603_45.2 P132 BN132MA4	309
35	1889	1.5	41.7	30000	A603_41.7 S4 M4LA4	308	A603_41.7 P132 BN132MA4	309
36	1825	1.1	40.3	30000	A553_40.3 S4 M4LA4	304	A553_40.3 P132 BN132MA4	305
38	1738	2.8	38.4	50000	A703_38.4 S4 M4LA4	312	A703_38.4 P132 BN132MA4	313
40	1612	0.9	35.6	10100	A503_35.6 S4 M4LA4	300	A503_35.6 P132 BN132MA4	301
41	1605	2.8	35.4	50000	A703_35.4 S4 M4LA4	312	A703_35.4 P132 BN132MA4	313
42	1553	1.8	34.3	30000	A603_34.3 S4 M4LA4	308	A603_34.3 P132 BN132MA4	309
44	1466	1.0	32.4	10300	A503_32.4 S4 M4LA4	300	A503_32.4 P132 BN132MA4	301
45	1434	2.0	31.7	30000	A603_31.7 S4 M4LA4	308	A603_31.7 P132 BN132MA4	309
48	1355	1.5	29.9	30000	A553_29.9 S4 M4LA4	304	A553_29.9 P132 BN132MA4	305
52	1261	2.2	27.9	30000	A603_27.9 S4 M4LA4	308	A603_27.9 P132 BN132MA4	309
54	1197	1.3	26.4	10700	A503_26.4 S4 M4LA4	300	A503_26.4 P132 BN132MA4	301
56	1164	2.4	25.7	30000	A603_25.7 S4 M4LA4	308	A603_25.7 P132 BN132MA4	309
60	1089	1.4	24.0	10800	A503_24.0 S4 M4LA4	300	A503_24.0 P132 BN132MA4	301
61	1077	1.8	23.8	28800	A553_23.8 S4 M4LA4	304	A553_23.8 P132 BN132MA4	305

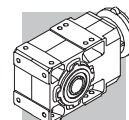


7.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
69	979	1.2	20.9	13700	A502_20.9 S4 M4LA4	300	A502_20.9 P132 BN132MA4	301
70	963	2.1	20.6	30000	A602_20.6 S4 M4LA4	308	A602_20.6 P132 BN132MA4	309
75	900	2.0	19.2	28800	A552_19.2 S4 M4LA4	304	A552_19.2 P132 BN132MA4	305
86	783	2.6	16.7	30000	A602_16.7 S4 M4LA4	308	A602_16.7 P132 BN132MA4	309
87	775	1.5	16.6	13000	A502_16.6 S4 M4LA4	300	A502_16.6 P132 BN132MA4	301
92	734	2.5	15.7	27300	A552_15.7 S4 M4LA4	304	A552_15.7 P132 BN132MA4	305
105	644	0.9	13.8	8130	A412_13.8 S4 M4LA4	296	A412_13.8 P132 BN132MA4	297
110	613	1.8	13.1	12300	A502_13.1 S4 M4LA4	300	A502_13.1 P132 BN132MA4	301
110	612	2.9	13.1	26100	A552_13.1 S4 M4LA4	304	A552_13.1 P132 BN132MA4	305
113	594	3.4	12.7	30000	A602_12.7 S4 M4LA4	308	A602_12.7 P132 BN132MA4	309
123	549	1.0	11.7	7970	A412_11.7 S4 M4LA4	296	A412_11.7 P132 BN132MA4	297
142	474	1.1	10.1	7850	A412_10.1 S4 M4LA4	296	A412_10.1 P132 BN132MA4	297
148	455	2.2	9.7	11500	A502_9.7 S4 M4LA4	300	A502_9.7 P132 BN132MA4	301
155	436	0.9	9.3	5650	A352_9.3 S4 M4LA4	292	A352_9.3 P132 BN132MA4	293
157	430	1.3	9.2	7710	A412_9.2 S4 M4LA4	296	A412_9.2 P132 BN132MA4	297
170	396	1.0	8.5	5600	A352_8.5 S4 M4LA4	292	A352_8.5 P132 BN132MA4	293
173	390	1.4	8.3	7590	A412_8.3 S4 M4LA4	296	A412_8.3 P132 BN132MA4	297
186	362	2.6	7.7	10800	A502_7.7 S4 M4LA4	300	A502_7.7 P132 BN132MA4	301
202	333	1.7	7.1	7370	A412_7.1 S4 M4LA4	296	A412_7.1 P132 BN132MA4	297
205	329	1.1	7.0	5490	A352_7.0 S4 M4LA4	292	A352_7.0 P132 BN132MA4	293
225	300	1.2	6.4	5420	A352_6.4 S4 M4LA4	292	A352_6.4 P132 BN132MA4	293
266	253	1.3	5.4	5270	A352_5.4 S4 M4LA4	292	A352_5.4 P132 BN132MA4	293
275	245	2.2	5.2	6920	A412_5.2 S4 M4LA4	296	A412_5.2 P132 BN132MA4	297
315	214	2.5	9.2	6710	A412_9.2 S4 M4SB2	296	A412_9.2 P132 BN132SB2	297
348	194	2.6	8.3	6550	A412_8.3 S4 M4SB2	296	A412_8.3 P132 BN132SB2	297
413	163	2.3	7.0	4830	A352_7.0 S4 M4SB2	292	A352_7.0 P132 BN132SB2	293
536	126	2.7	5.4	4550	A352_5.4 S4 M4SB2	292	A352_5.4 P132 BN132SB2	293

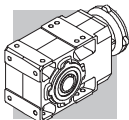
9.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
5.1	15291	0.9	281.4	75000	A904_281.4 S4 M4LB4	318	A904_281.4 P132 BN132MB4	319
6.4	12302	1.1	226.4	75000	A904_226.4 S4 M4LB4	318	A904_226.4 P132 BN132MB4	319
6.9	11356	1.2	209.0	75000	A904_209.0 S4 M4LB4	318	A904_209.0 P132 BN132MB4	319
8.0	9778	1.4	180.0	75000	A904_180.0 S4 M4LB4	318	A904_180.0 P132 BN132MB4	319
8.4	9307	0.9	171.3	65000	A804_171.3 S4 M4LB4	315	A804_171.3 P132 BN132MB4	316
8.7	9026	1.6	166.1	75000	A904_166.1 S4 M4LB4	318	A904_166.1 P132 BN132MB4	319
9.2	8711	0.9	156.8	65000	A803_156.8 S4 M4LB4	315	A803_156.8 P132 BN132MB4	316
9.5	8389	1.6	151.0	75000	A903_151.0 S4 M4LB4	318	A903_151.0 P132 BN132MB4	319
9.9	8040	1.0	144.7	65000	A803_144.7 S4 M4LB4	315	A803_144.7 P132 BN132MB4	316
10.3	7744	1.6	139.4	75000	A903_139.4 S4 M4LB4	318	A903_139.4 P132 BN132MB4	319
11.4	7035	1.9	126.6	75000	A903_126.6 S4 M4LB4	318	A903_126.6 P132 BN132MB4	319
11.5	6978	1.1	125.6	65000	A803_125.6 S4 M4LB4	315	A803_125.6 P132 BN132MB4	316
12.3	6494	2.2	116.9	75000	A903_116.9 S4 M4LB4	318	A903_116.9 P132 BN132MB4	319
12.4	6442	1.2	116.0	65000	A803_116.0 S4 M4LB4	315	A803_116.0 P132 BN132MB4	316
13.5	5934	2.4	106.8	75000	A903_106.8 S4 M4LB4	318	A903_106.8 P132 BN132MB4	319
13.8	5779	1.4	104.0	65000	A803_104.0 S4 M4LB4	315	A803_104.0 P132 BN132MB4	316
14.6	5478	2.6	98.6	75000	A903_98.6 S4 M4LB4	318	A903_98.6 P132 BN132MB4	319



9.2 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
15.0	5345	0.9	96.2	50000	A703_96.2 S4 M4LB4	312	A703_96.2 P132 BN132MB4	313
15.0	5335	1.5	96.0	65000	A803_96.0 S4 M4LB4	315	A803_96.0 P132 BN132MB4	316
16.1	4954	1.6	89.2	65000	A803_89.2 S4 M4LB4	315	A803_89.2 P132 BN132MB4	316
16.5	4837	2.9	87.1	75000	A903_87.1 S4 M4LB4	318	A903_87.1 P132 BN132MB4	319
16.8	4774	1.0	85.9	50000	A703_85.9 S4 M4LB4	312	A703_85.9 P132 BN132MB4	313
17.5	4573	1.7	82.3	65000	A803_82.3 S4 M4LB4	315	A803_82.3 P132 BN132MB4	316
17.9	4465	3.1	80.4	75000	A903_80.4 S4 M4LB4	318	A903_80.4 P132 BN132MB4	319
18.2	4407	1.1	79.3	50000	A703_79.3 S4 M4LB4	312	A703_79.3 P132 BN132MB4	313
19.3	4137	3.4	74.5	75000	A903_74.5 S4 M4LB4	318	A903_74.5 P132 BN132MB4	319
19.9	4029	1.2	72.5	50000	A703_72.5 S4 M4LB4	312	A703_72.5 P132 BN132MB4	313
19.9	4020	2.0	72.4	65000	A803_72.4 S4 M4LB4	315	A803_72.4 P132 BN132MB4	316
21.5	3719	1.3	66.9	50000	A703_66.9 S4 M4LB4	312	A703_66.9 P132 BN132MB4	313
21.6	3711	2.2	66.8	63800	A803_66.8 S4 M4LB4	315	A803_66.8 P132 BN132MB4	316
24.1	3321	2.4	59.8	62400	A803_59.8 S4 M4LB4	315	A803_59.8 P132 BN132MB4	316
25.0	3204	1.6	57.7	50000	A703_57.7 S4 M4LB4	312	A703_57.7 P132 BN132MB4	313
25.9	3089	0.9	55.6	30000	A603_55.6 S4 M4LB4	308	A603_55.6 P132 BN132MB4	309
26.1	3065	2.6	55.2	61300	A803_55.2 S4 M4LB4	315	A803_55.2 P132 BN132MB4	316
27.1	2957	1.7	53.2	50000	A703_53.2 S4 M4LB4	312	A703_53.2 P132 BN132MB4	313
28.1	2851	1.0	51.3	30000	A603_51.3 S4 M4LB4	308	A603_51.3 P132 BN132MB4	309
29.4	2722	1.8	49.0	50000	A703_49.0 S4 M4LB4	312	A703_49.0 P132 BN132MB4	313
30	2677	3.0	48.2	59500	A803_48.2 S4 M4LB4	315	A803_48.2 P132 BN132MB4	316
32	2513	1.9	45.2	50000	A703_45.2 S4 M4LB4	312	A703_45.2 P132 BN132MB4	313
32	2510	1.1	45.2	30000	A603_45.2 S4 M4LB4	308	A603_45.2 P132 BN132MB4	309
32	2471	3.0	44.5	58400	A803_44.5 S4 M4LB4	315	A803_44.5 P132 BN132MB4	316
35	2317	1.2	41.7	30000	A603_41.7 S4 M4LB4	308	A603_41.7 P132 BN132MB4	309
38	2132	2.3	38.4	50000	A703_38.4 S4 M4LB4	312	A703_38.4 P132 BN132MB4	313
41	1968	2.3	35.4	50000	A703_35.4 S4 M4LB4	312	A703_35.4 P132 BN132MB4	313
42	1905	1.5	34.3	30000	A603_34.3 S4 M4LB4	308	A603_34.3 P132 BN132MB4	309
45	1759	1.6	31.7	30000	A603_31.7 S4 M4LB4	308	A603_31.7 P132 BN132MB4	309
48	1663	1.2	29.9	29100	A553_29.9 S4 M4LB4	304	A553_29.9 P132 BN132MB4	305
52	1547	1.8	27.9	30000	A603_27.9 S4 M4LB4	308	A603_27.9 P132 BN132MB4	309
54	1469	1.0	26.4	9130	A503_26.4 S4 M4LB4	300	A503_26.4 P132 BN132MB4	301
56	1428	2.0	25.7	30000	A603_25.7 S4 M4LB4	308	A603_25.7 P132 BN132MB4	309
60	1336	1.1	24.0	9370	A503_24.0 S4 M4LB4	300	A503_24.0 P132 BN132MB4	301
61	1322	1.5	23.8	27900	A553_23.8 S4 M4LB4	304	A553_23.8 P132 BN132MB4	305
68	1183	3.4	21.3	46000	A703_21.3 S4 M4LB4	312	A703_21.3 P132 BN132MB4	313
69	1200	1.0	20.9	13000	A502_20.9 S4 M4LB4	300	A502_20.9 P132 BN132MB4	301
70	1182	1.7	20.6	30000	A602_20.6 S4 M4LB4	308	A602_20.6 P132 BN132MB4	309
73	1092	3.4	19.7	45100	A703_19.7 S4 M4LB4	312	A703_19.7 P132 BN132MB4	313
75	1104	1.6	19.2	28400	A552_19.2 S4 M4LB4	304	A552_19.2 P132 BN132MB4	305
86	960	2.1	16.7	30000	A602_16.7 S4 M4LB4	308	A602_16.7 P132 BN132MB4	309
87	951	1.3	16.6	12500	A502_16.6 S4 M4LB4	300	A502_16.6 P132 BN132MB4	301
92	900	2.0	15.7	27000	A552_15.7 S4 M4LB4	304	A552_15.7 P132 BN132MB4	305
110	752	1.5	13.1	11900	A502_13.1 S4 M4LB4	300	A502_13.1 P132 BN132MB4	301
110	750	2.4	13.1	25800	A552_13.1 S4 M4LB4	304	A552_13.1 P132 BN132MB4	305
113	729	2.7	12.7	30000	A602_12.7 S4 M4LB4	308	A602_12.7 P132 BN132MB4	309
123	650	2.5	23.8	24100	A553_23.8 S4 M4LA2	304	A553_23.8 P132 BN132M2	305
139	594	3.0	10.4	24200	A552_10.4 S4 M4LB4	304	A552_10.4 P132 BN132MB4	305
140	592	3.4	10.3	30000	A602_10.3 S4 M4LB4	308	A602_10.3 P132 BN132MB4	309
142	581	0.9	10.1	7340	A412_10.1 S4 M4LB4	296	A412_10.1 P132 BN132MB4	297
148	559	1.8	9.7	11200	A502_9.7 S4 M4LB4	300	A502_9.7 P132 BN132MB4	301

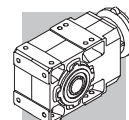


9.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
157	528	1.0	9.2	7250	A412_9.2 S4 M4LB4	296	A412_9.2 P132 BN132MB4	297
173	478	1.2	8.3	7170	A412_8.3 S4 M4LB4	296	A412_8.3 P132 BN132MB4	297
186	444	2.1	7.7	10600	A502_7.7 S4 M4LB4	300	A502_7.7 P132 BN132MB4	301
202	409	1.3	7.1	7020	A412_7.1 S4 M4LB4	296	A412_7.1 P132 BN132MB4	297
205	403	0.9	7.0	5110	A352_7.0 S4 M4LB4	292	A352_7.0 P132 BN132MB4	293
225	368	1.0	6.4	5070	A352_6.4 S4 M4LB4	292	A352_6.4 P132 BN132MB4	293
266	311	1.1	5.4	4980	A352_5.4 S4 M4LB4	292	A352_5.4 P132 BN132MB4	293
275	301	1.8	5.2	6660	A412_5.2 S4 M4LB4	296	A412_5.2 P132 BN132MB4	297
319	259	2.0	9.2	6480	A412_9.2 S4 M4LA2	296	A412_9.2 P132 BN132M2	297
379	218	3.4	7.7	8780	A502_7.7 S4 M4LA2	300	A502_7.7 P132 BN132M2	301
541	153	2.2	5.4	4410	A352_5.4 S4 M4LA2	292	A352_5.4 P132 BN132M2	293
559	148	3.0	5.2	5690	A412_5.2 S4 M4LA2	296	A412_5.2 P132 BN132M2	297

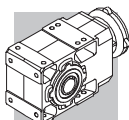
11 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
6.4	14709	1.0	226.4	75000	A904_226.4 S4 M4LC4	318	A904_226.4 P160 BN160MR4	319
6.9	13577	1.0	209.0	75000	A904_209.0 S4 M4LC4	318	A904_209.0 P160 BN160MR4	319
8.0	11691	1.2	180.0	75000	A904_180.0 S4 M4LC4	318	A904_180.0 P160 BN160MR4	319
8.7	10792	1.3	166.1	75000	A904_166.1 S4 M4LC4	318	A904_166.1 P160 BN160MR4	319
9.5	10030	1.4	151.0	75000	A903_151.0 S4 M4LC4	318	A903_151.0 P160 BN160MR4	319
10.3	9259	1.4	139.4	75000	A903_139.4 S4 M4LC4	318	A903_139.4 P160 BN160MR4	319
11.4	8412	1.6	126.6	75000	A903_126.6 S4 M4LC4	318	A903_126.6 P160 BN160MR4	319
11.5	8344	1.0	125.6	65000	A803_125.6 S4 M4LC4	315	A803_125.6 P160 BN160MR4	316
12.3	7765	1.8	116.9	75000	A903_116.9 S4 M4LC4	318	A903_116.9 P160 BN160MR4	319
12.4	7702	1.0	116.0	65000	A803_116.0 S4 M4LC4	315	A803_116.0 P160 BN160MR4	316
13.5	7095	2.0	106.8	75000	A903_106.8 S4 M4LC4	318	A903_106.8 P160 BN160MR4	319
13.8	6910	1.2	104.0	65000	A803_104.0 S4 M4LC4	315	A803_104.0 P160 BN160MR4	316
14.6	6549	2.1	98.6	75000	A903_98.6 S4 M4LC4	318	A903_98.6 P160 BN160MR4	319
15.0	6378	1.3	96.0	65000	A803_96.0 S4 M4LC4	315	A803_96.0 P160 BN160MR4	316
16.1	5923	1.4	89.2	65000	A803_89.2 S4 M4LC4	315	A803_89.2 P160 BN160MR4	316
16.5	5783	2.4	87.1	75000	A903_87.1 S4 M4LC4	318	A903_87.1 P160 BN160MR4	319
17.5	5468	1.5	82.3	64500	A803_82.3 S4 M4LC4	315	A803_82.3 P160 BN160MR4	316
17.9	5338	2.6	80.4	75000	A903_80.4 S4 M4LC4	318	A903_80.4 P160 BN160MR4	319
18.2	5269	0.9	79.3	50000	A703_79.3 S4 M4LC4	312	A703_79.3 P160 BN160MR4	313
19.3	4947	2.8	74.5	75000	A903_74.5 S4 M4LC4	318	A903_74.5 P160 BN160MR4	319
19.9	4817	1.0	72.5	50000	A703_72.5 S4 M4LC4	312	A703_72.5 P160 BN160MR4	313
19.9	4807	1.7	72.4	63200	A803_72.4 S4 M4LC4	315	A803_72.4 P160 BN160MR4	316
20.9	4566	3.1	68.8	75000	A903_68.8 S4 M4LC4	318	A903_68.8 P160 BN160MR4	319
21.5	4446	1.1	66.9	50000	A703_66.9 S4 M4LC4	312	A703_66.9 P160 BN160MR4	313
21.6	4437	1.8	66.8	62200	A803_66.8 S4 M4LC4	315	A803_66.8 P160 BN160MR4	316
24.1	3971	2.0	59.8	60900	A803_59.8 S4 M4LC4	315	A803_59.8 P160 BN160MR4	316
24.2	3960	3.5	59.6	75000	A903_59.6 S4 M4LC4	318	A903_59.6 P160 BN160MR4	319
25.0	3830	1.3	57.7	50000	A703_57.7 S4 M4LC4	312	A703_57.7 P160 BN160MR4	313
26.1	3665	2.2	55.2	59900	A803_55.2 S4 M4LC4	315	A803_55.2 P160 BN160MR4	316
27.1	3536	1.4	53.2	50000	A703_53.2 S4 M4LC4	312	A703_53.2 P160 BN160MR4	313
29.4	3255	1.5	49.0	50000	A703_49.0 S4 M4LC4	312	A703_49.0 P160 BN160MR4	313
30	3200	2.5	48.2	58300	A803_48.2 S4 M4LC4	315	A803_48.2 P160 BN160MR4	316



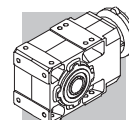
11 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC 	
32	3004	1.6	45.2	50000	A703_45.2 S4 M4LC4	312	A703_45.2 P160 BN160MR4	313
32	3001	0.9	45.2	30000	A603_45.2 S4 M4LC4	308	A603_45.2 P160 BN160MR4	309
32	2954	2.5	44.5	57300	A803_44.5 S4 M4LC4	315	A803_44.5 P160 BN160MR4	316
35	2771	1.0	41.7	30000	A603_41.7 S4 M4LC4	308	A603_41.7 P160 BN160MR4	309
37	2557	3.0	38.5	55500	A703_38.4 S4 M4LC4	312	A803_38.5 P160 BN160MR4	316
38	2549	1.9	38.4	50000			A703_38.4 P160 BN160MR4	313
41	2360	3.0	35.5	54500			A803_35.5 P160 BN160MR4	316
41	2353	1.9	35.4	50000			A703_35.4 P160 BN160MR4	313
42	2278	1.2	34.3	30000	A603_34.3 S4 M4LC4	308	A603_34.3 P160 BN160MR4	309
45	2103	1.3	31.7	30000	A603_31.7 S4 M4LC4	308	A603_31.7 P160 BN160MR4	309
47	2031	3.2	30.6	52600			A803_30.6 P160 BN160MR4	316
48	1999	2.3	30.1	49400			A703_30.1 P160 BN160MR4	313
51	1875	3.5	28.2	51600			A803_28.2 P160 BN160MR4	316
52	1850	1.5	27.9	30000	A603_27.9 S4 M4LC4	308	A603_27.9 P160 BN160MR4	309
52	1845	2.3	27.8	48500	A603_25.7 S4 M4LC4 A503_24.0 S4 M4LC4	308 300	A703_27.8 P160 BN160MR4	313
56	1708	1.6	25.7	30000			A603_25.7 P160 BN160MR4	309
60	1597	0.9	24.0	7800			A503_24.0 P160 BN160MR4	301
61	1562	2.8	23.5	46600			A703_23.5 P160 BN160MR4	313
68	1415	2.8	21.3	45500	A703_21.3 S4 M4LC4	312	A703_21.3 P160 BN160MR4	313
70	1413	1.4	20.6	30000	A602_20.6 S4 M4LC4	308	A602_20.6 P160 BN160MR4	309
73	1306	2.8	19.7	44500	A703_19.7 S4 M4LC4	312	A703_19.7 P160 BN160MR4	313
75	1319	1.4	19.2	27900	A552_19.2 S4 M4LC4	304	A552_19.2 P160 BN160MR4	305
86	1148	1.7	16.7	30000	A602_16.7 S4 M4LC4	308	A602_16.7 P160 BN160MR4	309
87	1137	1.1	16.6	12000	A502_16.6 S4 M4LC4	300	A502_16.6 P160 BN160MR4	301
92	1076	1.7	15.7	26600	A552_15.7 S4 M4LC4	304	A552_15.7 P160 BN160MR4	305
110	899	1.2	13.1	11500	A502_13.1 S4 M4LC4	300	A502_13.1 P160 BN160MR4	301
110	897	2.0	13.1	25400	A552_13.1 S4 M4LC4	304	A552_13.1 P160 BN160MR4	305
113	872	2.3	12.7	30000	A602_12.7 S4 M4LC4	308	A602_12.7 P160 BN160MR4	309
123	779	2.1	23.8	23600	A553_23.8 S4 M4LC2	304	A553_23.8 P160 BN160MR2	305
139	710	2.5	10.4	24000	A552_10.4 S4 M4LC4	304	A552_10.4 P160 BN160MR4	305
140	708	2.8	10.3	30000	A602_10.3 S4 M4LC4	308	A602_10.3 P160 BN160MR4	309
148	668	1.5	9.7	10800	A502_9.7 S4 M4LC4	300	A502_9.7 P160 BN160MR4	301
170	581	3.1	8.5	22800	A552_8.5 S4 M4LC4	304	A552_8.5 P160 BN160MR4	305
186	531	1.8	7.7	10300	A502_7.7 S4 M4LC4	300	A502_7.7 P160 BN160MR4	301
202	489	1.1	7.1	6640	A412_7.1 S4 M4LC4	296	A502_13.1 P160 BN160MR2	301
223	443	2.0	13.1	9920	A502_13.1 S4 M4LC2	300		
248	399	1.0	11.8	4690	A352_11.8 S4 M4LC2	292		
275	360	1.1	10.6	4660	A352_10.6 S4 M4LC2	292		
317	311	1.7	9.2	6230	A412_9.2 S4 M4LC2	296	A502_7.7 P160 BN160MR2	301
377	262	2.8	7.7	8650	A502_7.7 S4 M4LC2	300		
416	238	1.6	7.0	4440	A352_7.0 S4 M4LC2	292		
456	217	1.6	6.4	4380	A352_6.4 S4 M4LC2	292		
539	183	1.9	5.4	4250	A352_5.4 S4 M4LC2	292		



15 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
8.1	15724	0.9	180.0	75000			A904_180.0 P160 BN160L4	319
8.8	14514	1.0	166.1	75000			A904_166.1 P160 BN160L4	319
9.7	13490	1.0	151.0	75000	A903_151.0 S5 M5SB4	318	A903_151.0 P160 BN160L4	319
10.5	12452	1.0	139.4	75000	A903_139.4 S5 M5SB4	318	A903_139.4 P160 BN160L4	319
11.5	11314	1.2	126.6	75000	A903_126.6 S5 M5SB4	318	A903_126.6 P160 BN160L4	319
12.5	10443	1.3	116.9	75000	A903_116.9 S5 M5SB4	318	A903_116.9 P160 BN160L4	319
13.7	9543	1.5	106.8	75000	A903_106.8 S5 M5SB4	318	A903_106.8 P160 BN160L4	319
14.8	8808	1.6	98.6	75000	A903_98.6 S5 M5SB4	318	A903_98.6 P160 BN160L4	319
15.2	8578	0.9	96.0	60600	A803_96.0 S5 M5SB4	315	A803_96.0 P160 BN160L4	316
16.4	7967	1.0	89.2	60400	A803_89.2 S5 M5SB4	315	A803_89.2 P160 BN160L4	316
16.8	7778	1.8	87.1	75000	A903_87.1 S5 M5SB4	318	A903_87.1 P160 BN160L4	319
17.7	7354	1.1	82.3	59800	A803_82.3 S5 M5SB4	315	A803_82.3 P160 BN160L4	316
18.2	7180	1.9	80.4	75000	A903_80.4 S5 M5SB4	318	A903_80.4 P160 BN160L4	319
19.6	6654	2.1	74.5	75000	A903_74.5 S5 M5SB4	318	A903_74.5 P160 BN160L4	319
20.2	6465	1.2	72.4	59100	A803_72.4 S5 M5SB4	315	A803_72.4 P160 BN160L4	316
21.2	6142	2.3	68.8	75000	A903_68.8 S5 M5SB4	318	A903_68.8 P160 BN160L4	319
21.9	5968	1.3	66.8	58300	A803_66.8 S5 M5SB4	315	A803_66.8 P160 BN160L4	316
24.4	5340	1.5	59.8	57500	A803_59.8 S5 M5SB4	315	A803_59.8 P160 BN160L4	316
24.5	5326	2.6	59.6	75000	A903_59.6 S5 M5SB4	318	A903_59.6 P160 BN160L4	319
25.3	5152	1.0	57.7	50000	A703_57.7 S5 M5SB4	312	A703_57.7 P160 BN160L4	313
26.5	4930	1.6	55.2	56700	A803_55.2 S5 M5SB4	315	A803_55.2 P160 BN160L4	316
26.5	4916	2.8	55.0	75000	A903_55.0 S5 M5SB4	318	A903_55.0 P160 BN160L4	319
27.4	4755	1.1	53.2	50000	A703_53.2 S5 M5SB4	312	A703_53.2 P160 BN160L4	313
29.8	4377	1.1	49.0	50000	A703_49.0 S5 M5SB4	312	A703_49.0 P160 BN160L4	313
30	4315	3.2	48.3	74900			A903_48.3 P160 BN160L4	319
30	4304	1.9	48.2	55500	A803_48.2 S5 M5SB4	315	A803_48.2 P160 BN160L4	316
32	4041	1.2	45.2	50000	A703_45.2 S5 M5SB4	312	A703_45.2 P160 BN160L4	313
33	3983	3.5	44.6	73500			A903_44.6 P160 BN160L4	319
33	3973	1.9	44.5	54700	A803_44.5 S5 M5SB4	315	A803_44.5 P160 BN160L4	316
38	3439	2.2	38.5	53200			A803_38.5 P160 BN160L4	316
38	3429	1.4	38.4	49900	A703_38.4 S5 M5SB4	312	A703_38.4 P160 BN160L4	313
41	3175	2.2	35.5	52300			A803_35.5 P160 BN160L4	316
41	3165	1.4	35.4	49100	A703_35.4 S5 M5SB4	312	A703_35.4 P160 BN160L4	313
43	3064	0.9	34.3	30000	A603_34.3 S5 M5SB4	308	A603_34.3 P160 BN160L4	309
46	2828	1.0	31.7	30000	A603_31.7 S5 M5SB4	308	A603_31.7 P160 BN160L4	309
48	2731	2.4	30.6	50800			A803_30.6 P160 BN160L4	316
49	2689	1.7	30.1	47600			A703_30.1 P160 BN160L4	313
52	2521	2.6	28.2	49900			A803_28.2 P160 BN160L4	316
52	2488	1.1	27.9	30000	A603_27.9 S5 M5SB4	308	A603_27.9 P160 BN160L4	309
53	2482	1.7	27.8	46700			A703_27.8 P160 BN160L4	313
57	2297	1.2	25.7	30000	A603_25.7 S5 M5SB4	308	A603_25.7 P160 BN160L4	309
61	2125	0.9	23.8	25000	A553_23.8 S5 M5SB4	304	A553_23.8 P160 BN160L4	305
62	2101	2.0	23.5	45100			A703_23.5 P160 BN160L4	313
69	1903	2.1	21.3	44100	A703_21.3 S5 M5SB4	312	A703_21.3 P160 BN160L4	313
70	1871	3.5	20.9	46600	A803_20.9 S5 M5SB4	315	A803_20.9 P160 BN160L4	316
71	1900	1.1	20.6	30000	A602_20.6 S5 M5SB4	308	A602_20.6 P160 BN160L4	309
74	1757	2.1	19.7	43300	A703_19.7 S5 M5SB4	312	A703_19.7 P160 BN160L4	313
75	1728	3.5	19.3	45700	A803_19.3 S5 M5SB4	315	A803_19.3 P160 BN160L4	316
76	1775	1.0	19.2	26800	A552_19.2 S5 M5SB4	304	A552_19.2 P160 BN160L4	305
87	1544	1.3	16.7	30000	A602_16.7 S5 M5SB4	308	A602_16.7 P160 BN160L4	309
87	1491	2.7	16.7	41600	A703_16.7 S5 M5SB4	312	A703_16.7 P160 BN160L4	313

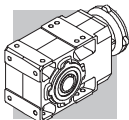


15 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC 	
93	1447	1.2	15.7	25700	A552_15.7 S5 M5SB4	304	A552_15.7 P160 BN160L4	305
95	1376	2.7	15.4	40800	A703_15.4 S5 M5SB4	312	A703_15.4 P160 BN160L4	313
111	1209	0.9	13.1	10500			A502_13.1 P160 BN160L4	301
112	1207	1.5	13.1	24700	A552_13.1 S5 M5SB4	304	A552_13.1 P160 BN160L4	305
112	1169	3.3	13.1	39200			A703_13.1 P160 BN160L4	313
115	1172	1.7	12.7	30000	A602_12.7 S5 M5SB4	308	A602_12.7 P160 BN160L4	309
121	1079	3.3	12.1	38400			A703_12.1 P160 BN160L4	313
123	1059	1.5	23.8	22600	A553_23.8 S5 M5SB4	304	A553_23.8 P160 BN160L4	305
141	956	1.9	10.4	23400	A552_10.4 S5 M5SB4	304	A552_10.4 P160 BN160L4	305
142	952	2.1	10.3	30000	A602_10.3 S5 M5SB4	308	A602_10.3 P160 BN160L4	309
150	898	1.1	9.7	10100			A502_9.7 P160 BN160L4	301
173	781	2.3	8.5	22200	A552_8.5 S5 M5SB4	304	A552_8.5 P160 BN160L4	305
186	726	2.8	7.9	28300	A602_7.9 S5 M5SB4	308	A602_7.9 P160 BN160L4	309
189	714	1.3	7.7	9750			A502_7.7 P160 BN160L4	301
228	592	2.9	6.4	20700	A552_6.4 S5 M5SB4	304	A552_6.4 P160 BN160L4	305
295	456	3.5	4.9	19400	A552_4.9 S5 M5SB4	304	A552_4.9 P160 BN160L4	305
301	448	1.8	9.7	8830			A502_9.7 P160 BN160MB2	301
352	383	1.3	8.3	5630			A412_8.3 P160 BN160MB2	297
379	356	2.1	7.7	8350			A502_7.7 P160 BN160MB2	301

18.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC 	
11.5	13954	0.9	126.6	75000	A903_126.6 S5 M5LA4	318	A903_126.6 P180 BN180M4	319
12.5	12880	1.1	116.9	75000	A903_116.9 S5 M5LA4	318	A903_116.9 P180 BN180M4	319
13.7	11769	1.2	106.8	75000	A903_106.8 S5 M5LA4	318	A903_106.8 P180 BN180M4	319
14.8	10864	1.3	98.6	75000	A903_98.6 S5 M5LA4	318	A903_98.6 P180 BN180M4	319
16.8	9593	1.5	87.1	75000	A903_87.1 S5 M5LA4	318	A903_87.1 P180 BN180M4	319
18.2	8855	1.6	80.4	75000	A903_80.4 S5 M5LA4	318	A903_80.4 P180 BN180M4	319
19.6	8206	1.7	74.5	75000	A903_74.5 S5 M5LA4	318	A903_74.5 P180 BN180M4	319
20.2	7973	1.0	72.4	55600	A803_72.4 S5 M5LA4	315	A803_72.4 P180 BN180M4	316
21.2	7575	1.8	68.8	75000	A903_68.8 S5 M5LA4	318	A903_68.8 P180 BN180M4	319
21.9	7360	1.1	66.8	55100			A803_66.8 P180 BN180M4	316
24.4	6586	1.2	59.8	54700	A803_59.8 S5 M5LA4	315	A803_59.8 P180 BN180M4	316
24.5	6568	2.1	59.6	75000	A903_59.6 S5 M5LA4	318	A903_59.6 P180 BN180M4	319
26.5	6080	1.3	55.2	54100	A803_55.2 S5 M5LA4	315	A803_55.2 P180 BN180M4	316
26.5	6063	2.3	55.0	74900	A903_55.0 S5 M5LA4	318	A903_55.0 P180 BN180M4	319
29.8	5399	0.9	49.0	49600	A703_49.0 S5 M5LA4	312	A703_49.0 P180 BN180M4	313
30	5322	2.6	48.3	73100			A903_48.3 P180 BN180M4	319
30	5309	1.5	48.2	53200	A803_48.2 S5 M5LA4	315	A803_48.2 P180 BN180M4	316
32	4983	1.0	45.2	49000	A703_45.2 S5 M5LA4	312	A703_45.2 P180 BN180M4	313
33	4912	2.9	44.6	71800			A903_44.6 P180 BN180M4	319
33	4900	1.5	44.5	52500	A803_44.5 S5 M5LA4	315	A803_44.5 P180 BN180M4	316
38	4276	3.3	38.8	69700			A903_38.8 P180 BN180M4	319
38	4242	1.8	38.5	51400			A803_38.5 P180 BN180M4	316
38	4229	1.1	38.4	48000	A703_38.4 S5 M5LA4	312	A703_38.4 P180 BN180M4	313
41	3947	3.5	35.8	68500			A903_35.8 P180 BN180M4	319
41	3916	1.8	35.5	50600			A803_35.5 P180 BN180M4	316

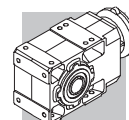


18.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
41	3904	1.2	35.4	47300	A703_35.4 S5 M5LA4	312	A703_35.4 P180 BN180M4	313
48	3369	1.9	30.6	49300			A803_30.6 P180 BN180M4	316
49	3316	1.4	30.1	46100			A703_30.1 P180 BN180M4	313
52	3110	2.1	28.2	48500			A803_28.2 P180 BN180M4	316
52	3069	0.9	27.9	30000			A603_27.9 P180 BN180M4	309
53	3061	1.4	27.8	45300	A603_25.7 S5 M5LA4	308	A703_27.8 P180 BN180M4	313
57	2833	1.0	25.7	30000			A603_25.7 P180 BN180M4	309
60	2699	2.5	24.5	47200			A803_24.5 P180 BN180M4	316
62	2591	1.7	23.5	43900			A703_23.5 P180 BN180M4	313
65	2492	2.5	22.6	46300			A803_22.6 P180 BN180M4	316
69	2347	1.7	21.3	43000	A703_21.3 S5 M5LA4	312	A703_21.3 P180 BN180M4	313
70	2308	2.8	20.9	45600	A803_20.9 S5 M5LA4	315	A803_20.9 P180 BN180M4	316
74	2167	1.7	19.7	42300	A703_19.7 S5 M5LA4	312	A703_19.7 P180 BN180M4	313
75	2131	2.8	19.3	44800	A803_19.3 S5 M5LA4	315	A803_19.3 P180 BN180M4	316
87	1905	1.0	16.7	30000	A602_16.7 S5 M5LA4	308	A602_16.7 P180 BN180M4	309
87	1839	2.2	16.7	40800	A703_16.7 S5 M5LA4	312	A703_16.7 P180 BN180M4	313
93	1785	1.0	15.7	25000	A552_15.7 S5 M5LA4	304	A552_15.7 P180 BN180M4	305
95	1697	2.2	15.4	40100	A703_15.4 S5 M5LA4	312	A703_15.4 P180 BN180M4	313
112	1488	1.2	13.1	24100	A552_13.1 S5 M5LA4	304	A552_13.1 P180 BN180M4	305
112	1442	2.7	13.1	38600			A703_13.1 P180 BN180M4	313
115	1446	1.4	12.7	30000	A602_12.7 S5 M5LA4	308	A602_12.7 P180 BN180M4	309
121	1331	2.7	12.1	37800			A703_12.1 P180 BN180M4	313
123	1306	1.2	23.8	21600	A553_23.8 S5 M5SC2	304	A553_23.8 P160 BN160L2	305
141	1179	1.5	10.4	22900	A552_10.4 S5 M5LA4	304	A552_10.4 P180 BN180M4	305
142	1174	1.7	10.3	29900	A602_10.3 S5 M5LA4	308	A602_10.3 P180 BN180M4	309
143	1127	2.9	10.2	36300			A703_10.2 P180 BN180M4	313
150	1108	0.9	9.7	9530	A502_9.7 S5 M5LA4	300	A502_9.7 P180 BN180M4	301
155	1040	2.9	9.4	35600			A703_9.4 P180 BN180M4	313
173	963	1.9	8.5	21900	A552_8.5 S5 M5LA4	304	A552_8.5 P180 BN180M4	305
186	895	2.2	7.9	27900	A602_7.9 S5 M5LA4	308	A602_7.9 P180 BN180M4	309
189	881	1.1	7.7	9260			A502_7.7 P180 BN180M4	301
228	730	2.3	6.4	20400	A552_6.4 S5 M5LA4	304	A552_6.4 P180 BN180M4	305
295	563	2.8	4.9	19100	A552_4.9 S5 M5LA4	304	A552_4.9 P180 BN180M4	305
379	439	1.7	7.7	8100			A502_7.7 P160 BN160L2	301

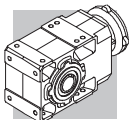
22 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
12.5	15317	0.9	116.9	75000			A903_116.9 P180 BN180L4	319
13.7	13996	1.0	106.8	75000			A903_106.8 P180 BN180L4	319
14.8	12919	1.1	98.6	75000			A903_98.6 P180 BN180L4	319
16.8	11408	1.2	87.1	75000			A903_87.1 P180 BN180L4	319
18.2	10530	1.3	80.4	75000			A903_80.4 P180 BN180L4	319
19.6	9758	1.4	74.5	75000			A903_74.5 P180 BN180L4	319
21.2	9008	1.6	68.8	75000			A903_68.8 P180 BN180L4	319
21.9	8753	0.9	66.8	51900			A803_66.8 P180 BN180L4	316
24.4	7832	1.0	59.8	51800			A803_59.8 P180 BN180L4	316
24.5	7811	1.8	59.6	73800			A903_59.6 P180 BN180L4	319



22 kW

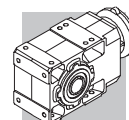
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC 	
26.5	7230	1.1	55.2	51400			A803_55.2 P180 BN180L4	316
26.5	7210	1.9	55.0	72700			A903_55.0 P180 BN180L4	319
30	6328	2.2	48.3	71100			A903_48.3 P180 BN180L4	319
30	6313	1.3	48.2	50900			A803_48.2 P180 BN180L4	316
33	5842	2.4	44.6	70000			A903_44.6 P180 BN180L4	319
33	5827	1.3	44.5	50300			A803_44.5 P180 BN180L4	316
38	5085	2.8	38.8	68100			A903_38.8 P180 BN180L4	319
38	5044	1.5	38.5	49500			A803_38.5 P180 BN180L4	316
38	5029	1.0	38.4	46000			A703_38.4 P180 BN180L4	313
41	4694	2.9	35.8	67000			A903_35.8 P180 BN180L4	319
41	4656	1.5	35.5	48900			A803_35.5 P180 BN180L4	316
41	4642	1.0	35.4	45500			A703_35.4 P180 BN180L4	313
46	4127	3.4	31.5	65200			A903_31.5 P180 BN180L4	319
48	4006	1.6	30.6	47800			A803_30.6 P180 BN180L4	316
49	3944	1.2	30.1	44500			A703_30.1 P180 BN180L4	313
50	3810	3.4	29.1	64000			A903_29.1 P180 BN180L4	319
52	3698	1.8	28.2	47100			A803_28.2 P180 BN180L4	316
53	3640	1.2	27.8	43900			A703_27.8 P180 BN180L4	313
60	3210	2.1	24.5	45900			A803_24.5 P180 BN180L4	316
62	3082	1.4	23.5	42700			A703_23.5 P180 BN180L4	313
65	2963	2.1	22.6	45200			A803_22.6 P180 BN180L4	316
69	2791	1.4	21.3	41900			A703_21.3 P180 BN180L4	313
70	2745	2.4	20.9	44600			A803_20.9 P180 BN180L4	316
74	2577	1.4	19.7	41200			A703_19.7 P180 BN180L4	313
75	2534	2.4	19.3	43800			A803_19.3 P180 BN180L4	316
87	2193	3.0	16.7	42500			A803_16.7 P180 BN180L4	316
87	2187	1.8	16.7	39900			A703_16.7 P180 BN180L4	313
94	2024	3.0	15.5	41700			A803_15.5 P180 BN180L4	316
95	2018	1.8	15.4	39200			A703_15.4 P180 BN180L4	313
112	1770	1.0	13.1	23500			A552_13.1 P180 BN180L4	305
112	1715	2.2	13.1	37900			A703_13.1 P180 BN180L4	313
115	1719	1.2	12.7	30000			A602_12.7 P180 BN180L4	309
121	1583	2.2	12.1	37200			A703_12.1 P180 BN180L4	313
123	1553	1.0	23.8	20900	A553_23.8 S5 M5LA2	304	A553_23.8 P180 BN180M2	305
141	1401	1.3	10.4	22400			A552_10.4 P180 BN180L4	305
142	1396	1.4	10.3	29300			A602_10.3 P180 BN180L4	309
143	1340	2.4	10.2	35800			A703_10.2 P180 BN180L4	313
155	1237	2.4	9.4	35100			A703_9.4 P180 BN180L4	313
173	1145	1.6	8.5	21400			A552_8.5 P180 BN180L4	305
186	1064	1.9	7.9	27500			A602_7.9 P180 BN180L4	309
189	1047	0.9	7.7	8760			A502_7.7 P180 BN180L4	301
228	868	2.0	6.4	20100			A552_6.4 P180 BN180L4	305
283	698	2.6	10.4	19100	A552_10.4 S5 M5LA2	304	A552_10.4 P180 BN180M2	305
295	669	2.4	4.9	18900			A552_4.9 P180 BN180L4	305
346	571	3.0	8.5	18200	A552_8.5 S5 M5LA2	304	A552_8.5 P180 BN180M2	305
379	522	1.4	7.7	7860			A502_7.7 P180 BN180M2	301



30 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N			 IEC 	
16.8	15556	0.9	87.1	70100			A903_87.1 P200 BN200L4	319
18.2	14360	1.0	80.4	70000			A903_80.4 P200 BN200L4	319
19.6	13307	1.1	74.5	69700			A903_74.5 P200 BN200L4	319
21.2	12283	1.1	68.8	69200			A903_68.8 P200 BN200L4	319
24.5	10651	1.3	59.6	68500			A903_59.6 P200 BN200L4	319
26.5	9832	1.4	55.0	67800			A903_55.0 P200 BN200L4	319
30.0	8630	1.6	48.3	66900			A903_48.3 P200 BN200L4	319
30	8609	0.9	48.2	45700			A803_48.2 P200 BN200L4	316
33	7966	1.8	44.6	66000			A903_44.6 P200 BN200L4	319
33	7946	0.9	44.5	45500			A803_44.5 P200 BN200L4	316
38	6934	2.0	38.8	64700			A903_38.8 P200 BN200L4	319
38	6879	1.1	38.5	45300			A803_38.5 P200 BN200L4	316
41	6400	2.1	35.8	63800			A903_35.8 P200 BN200L4	319
41	6349	1.1	35.5	45000			A803_35.5 P200 BN200L4	316
46	5628	2.5	31.5	62400			A903_31.5 P200 BN200L4	319
48	5463	1.2	30.6	44500			A803_30.6 P200 BN200L4	316
50	5195	2.5	29.1	61400			A903_29.1 P200 BN200L4	319
52	5043	1.3	28.2	44000			A803_28.2 P200 BN200L4	316
60	4377	1.5	24.5	43300			A803_24.5 P200 BN200L4	316
61	4307	3.1	24.1	59200			A903_24.1 P200 BN200L4	319
62	4202	1.0	23.5	40100			A703_23.5 P200 BN200L4	313
65	4041	1.5	22.6	42700			A803_22.6 P200 BN200L4	316
66	3976	3.1	22.3	58200			A903_22.3 P200 BN200L4	319
70	3752	3.3	21.0	57500			A903_21.0 P200 BN200L4	319
70	3743	1.7	20.9	42300			A803_20.9 P200 BN200L4	316
75	3463	3.3	19.4	56500			A903_19.4 P200 BN200L4	319
75	3455	1.8	19.3	41700			A803_19.3 P200 BN200L4	316
87	2991	2.2	16.7	40700			A803_16.7 P200 BN200L4	316
87	2982	1.3	16.7	38100			A703_16.7 P200 BN200L4	313
94	2761	2.2	15.5	40000			A803_15.5 P200 BN200L4	316
95	2752	1.3	15.4	37500			A703_15.4 P200 BN200L4	313
110	2375	2.8	13.3	38900			A803_13.3 P200 BN200L4	316
112	2338	1.6	13.1	36400			A703_13.1 P200 BN200L4	313
119	2192	2.8	12.3	38200			A803_12.3 P200 BN200L4	316
121	2158	1.6	12.1	35800			A703_12.1 P200 BN200L4	313
125	2094	1.7	23.5	35600			A703_23.5 P200 BN200LA2	313
137	1903	3.4	10.7	37100			A803_10.7 P200 BN200L4	316
143	1827	1.8	10.2	34600			A703_10.2 P200 BN200L4	313
148	1757	3.4	9.8	36500			A803_9.8 P200 BN200L4	316
155	1687	1.8	9.4	34000			A703_9.4 P200 BN200L4	313
176	1486	2.3	16.7	33100			A703_16.7 P200 BN200LA2	313
190	1371	2.3	15.4	32500			A703_15.4 P200 BN200LA2	313
224	1165	2.7	13.1	31300			A703_13.1 P200 BN200LA2	313
243	1075	2.7	12.1	30600			A703_12.1 P200 BN200LA2	313
287	910	3.2	10.2	29400			A703_10.2 P200 BN200LA2	313
310	840	3.2	9.4	28800			A703_9.4 P200 BN200LA2	313

*Los datos técnicos son indicativos, las configuraciones deben reflejarse de los fabricantes de motores eléctricos para poder por encima de 30 kW.



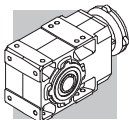
37 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC (*)	
21.5	14945	0.9	68.8	63900			A903_68.8 P225 IEC225S4	319
24.8	12959	1.1	59.6	63900			A903_59.6 P225 IEC225S4	319
26.9	11962	1.2	55.0	63600			A903_55.0 P225 IEC225S4	319
31	10499	1.3	48.3	63100			A903_48.3 P225 IEC225S4	319
33	9692	1.4	44.6	62500			A903_44.6 P225 IEC225S4	319
38	8436	1.7	38.8	61700			A903_38.8 P225 IEC225S4	319
38	8369	0.9	38.5	41700			A803_38.5 P225 IEC225S4	316
41	7787	1.8	35.8	61000			A903_35.8 P225 IEC225S4	319
42	7725	0.9	35.5	41600			A803_35.5 P225 IEC225S4	316
47	6847	2.0	31.5	59900			A903_31.5 P225 IEC225S4	319
48	6647	1.0	30.6	41600			A803_30.6 P225 IEC225S4	316
51	6321	2.1	29.1	59100			A903_29.1 P225 IEC225S4	319
52	6135	1.1	28.2	41300			A803_28.2 P225 IEC225S4	316
60	5326	1.3	24.5	40900			A803_24.5 P225 IEC225S4	316
61	5241	2.5	24.1	57300			A903_24.1 P225 IEC225S4	319
65	4916	1.3	22.6	40500			A803_22.6 P225 IEC225S4	316
67	4837	2.5	22.3	56400			A903_22.3 P225 IEC225S4	319
70	4565	2.7	21.0	55900			A903_21.0 P225 IEC225S4	319
71	4554	1.4	20.9	40300			A803_20.9 P225 IEC225S4	316
76	4214	2.7	19.4	54900			A903_19.4 P225 IEC225S4	319
77	4204	1.4	19.3	39800			A803_19.3 P225 IEC225S4	316
88	3668	3.2	16.9	53400			A903_16.9 P225 IEC225S4	319
88	3639	1.8	16.7	39100			A803_16.7 P225 IEC225S4	316
95	3386	3.2	15.6	52500			A903_15.6 P225 IEC225S4	319
96	3359	1.8	15.5	38500			A803_15.5 P225 IEC225S4	316
111	2890	2.3	13.3	37600			A803_13.3 P225 IEC225S4	316
121	2667	2.3	12.3	37000			A803_12.3 P225 IEC225S4	316
139	2316	2.8	10.7	36100			A803_10.7 P225 IEC225S4	316
151	2137	2.8	9.8	35500			A803_9.8 P225 IEC225S4	316

45 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC (*)	
26.9	14549	1.0	55.0	58700			A903_55.0 P225 IEC225M4	319
31	12769	1.1	48.3	58900			A903_48.3 P225 IEC225M4	319
33	11787	1.2	44.6	58600			A903_44.6 P225 IEC225M4	319
38	10260	1.4	38.8	58300			A903_38.8 P225 IEC225M4	319
41	9471	1.5	35.8	57800			A903_35.8 P225 IEC225M4	319
47	8328	1.7	31.5	57200			A903_31.5 P225 IEC225M4	319
51	7687	1.7	29.1	56600			A903_29.1 P225 IEC225M4	319
60	6477	1.0	24.5	38300			A803_24.5 P225 IEC225M4	316
61	6374	2.1	24.1	55200			A903_24.1 P225 IEC225M4	319
65	5979	1.0	22.6	38100			A803_22.6 P225 IEC225M4	316
67	5883	2.1	22.3	54500			A903_22.3 P225 IEC225M4	319
70	5552	2.2	21.0	54000			A903_21.0 P225 IEC225M4	319
71	5539	1.2	20.9	38000			A803_20.9 P225 IEC225M4	316
76	5125	2.3	19.4	53200			A903_19.4 P225 IEC225M4	319
77	5112	1.2	19.3	37700			A803_19.3 P225 IEC225M4	316

*Los datos técnicos son indicativos, las configuraciones deben reflejarse de los fabricantes de motores eléctricos para poder por encima de 30 kW.



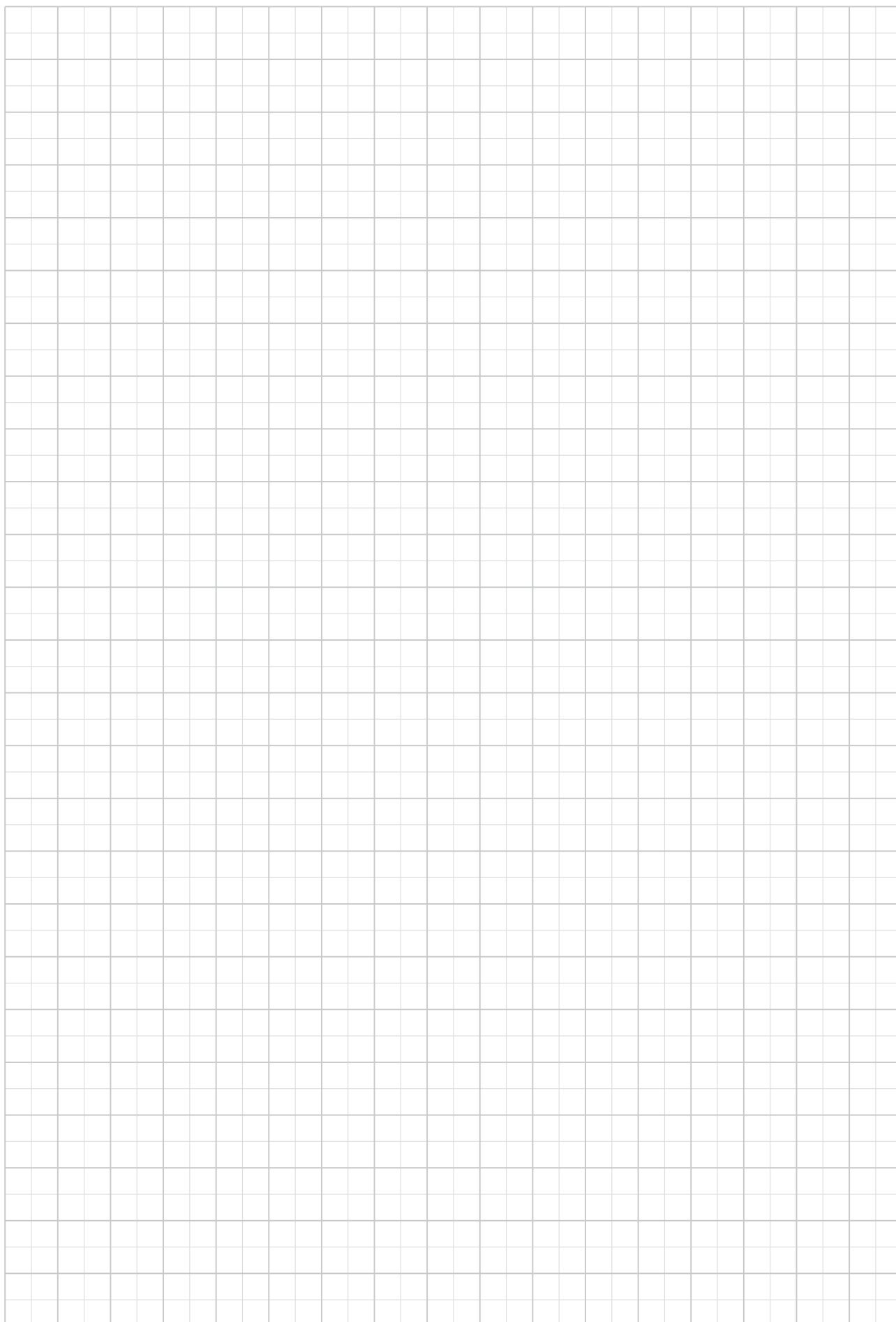
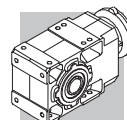
45 kW

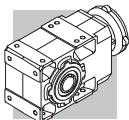
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC (*)	
88	4461	2.7	16.9	52000			A903_16.9 P225 IEC225M4	319
88	4425	1.5	16.7	37300			A803_16.7 P225 IEC225M4	316
95	4118	2.7	15.6	51100			A903_15.6 P225 IEC225M4	319
96	4085	1.5	15.5	36900			A803_15.5 P225 IEC225M4	316
108	3621	3.1	13.7	49900			A903_13.7 P225 IEC225M4	319
111	3515	1.9	13.3	36200			A803_13.3 P225 IEC225M4	316
117	3342	3.1	12.6	49000			A903_12.6 P225 IEC225M4	319
121	3244	1.9	12.3	35700			A803_12.3 P225 IEC225M4	316
139	2816	2.3	10.7	34900			A803_10.7 P225 IEC225M4	316
141	2771	3.5	10.5	47100			A903_10.5 P225 IEC225M4	319
151	2600	2.3	9.8	34400			A803_9.8 P225 IEC225M4	316
153	2558	3.5	9.7	46200			A903_9.7 P225 IEC225M4	319

55 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			 IEC (*)	
33	14406	1.0	44.6	53900			A903_44.6 P250 IEC250M4	319
38	12540	1.1	38.8	54100			A903_38.8 P250 IEC250M4	319
41	11575	1.2	35.8	54000			A903_35.8 P250 IEC250M4	319
47	10179	1.4	31.5	53800			A903_31.5 P250 IEC250M4	319
51	9396	1.4	29.1	53400			A903_29.1 P250 IEC250M4	319
61	7790	1.7	24.1	52600			A903_24.1 P250 IEC250M4	319
67	7191	1.7	22.3	52000			A903_22.3 P250 IEC250M4	319
70	6786	1.8	21.0	51700			A903_21.0 P250 IEC250M4	319
76	6264	1.8	19.4	51100			A903_19.4 P250 IEC250M4	319
88	5452	2.2	16.9	50100			A903_16.9 P250 IEC250M4	319
95	5033	2.2	15.6	49400			A903_15.6 P250 IEC250M4	319
108	4425	2.5	13.7	48400			A903_13.7 P250 IEC250M4	319
117	4085	2.6	12.6	47600			A903_12.6 P250 IEC250M4	319
141	3387	2.9	10.5	45900			A903_10.5 P250 IEC250M4	319
153	3126	2.9	9.7	45100			A903_9.7 P250 IEC250M4	319

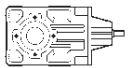
*Los datos técnicos son indicativos, las configuraciones deben reflejarse de los fabricantes de motores eléctricos para poder por encima de 30 kW.



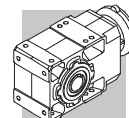


39 DATOS TECNICOS REDUCTORES

A 10 150 Nm

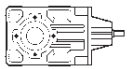
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
A 10 2_5.5	5.5	512	73	4.2	—	1830	256	73	2.1	960	2460	281
A 10 2_6.3	6.3	442	80	3.9	—	1900	221	80	2.0	830	2560	
A 10 2_7.2	7.2	388	92	4.0	—	1910	194	93	2.0	630	2600	
A 10 2_8.5	8.5	329	92	3.4	—	2060	164	93	1.7	720	2790	
A 10 2_9.6	9.6	291	102	3.3	—	2090	146	128	2.1	—	2650	
A 10 2_10.6	10.6	265	125	3.7	540	2010	133	150	2.2	810	2590	
A 10 2_12.3	12.3	228	110	2.8	—	2280	114	138	1.7	—	2880	
A 10 2_13.9	13.9	201	135	3.0	620	2220	101	150	1.7	1080	2960	
A 10 2_16.4	16.4	170	140	2.7	610	2370	85	150	1.4	1140	3200	
A 10 2_18.6	18.6	151	147	2.5	650	2460	75	150	1.3	1180	3380	
A 10 2_21.4	21.4	131	150	2.2	650	2610	66	150	1.1	1200	3600	
A 10 2_23.8	23.8	118	150	2.0	750	2750	59	150	0.98	1220	3780	
A 10 2_25.5	25.5	110	150	1.8	750	2840	55	150	0.92	1220	3900	
A 10 2_28.6	28.6	98	150	1.6	830	3000	49	150	0.82	1250	4100	
A 10 2_32.2	32.2	87	150	1.5	880	3170	43	150	0.73	1270	4310	
A 10 2_35.1	35.1	80	150	1.3	880	3300	40	150	0.67	1270	4470	
A 10 2_40.9	40.9	69	150	1.1	910	3530	34	150	0.57	1300	4770	
A 10 2_45.4	45.4	62	150	1.0	910	3700	31	150	0.52	1300	4980	
A 10 2_51.3	51.3	55	150	0.91	910	3910	27.3	150	0.46	1290	5240	
A 10 2_58.6	58.6	48	150	0.80	920	4140	23.9	150	0.40	1300	5500	
A 10 2_65.9	65.9	42	150	0.71	920	4360	21.2	150	0.35	1300	5500	
A 10 2_76.4	76.4	37	150	0.61	930	4640	18.3	150	0.31	1300	5500	
A 10 2_91.6	91.6	31	130	0.44	1020	5160	15.3	130	0.22	1300	5500	

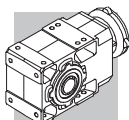
(—) Contactar con nuestro Servicio Técnico comunicando los datos relativos a la carga radial (sentido de giro, orientación, posición)



A 10

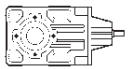
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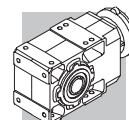
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		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
A 10 2_5.5	5.5	165	73	1.3	1300	2950	91	73	0.74	1300	3720	281
A 10 2_6.3	6.3	142	80	1.3	1300	3070	79	80	0.70	1300	4100	
A 10 2_7.2	7.2	125	93	1.3	1160	3130	69	93	0.72	1300	3970	
A 10 2_8.5	8.5	106	95	1.1	1200	3330	59	110	0.72	1300	4100	
A 10 2_9.6	9.6	94	128	1.3	500	3230	52	128	0.74	1300	4160	
A 10 2_10.6	10.6	85	150	1.4	1300	3200	47	150	0.79	1300	4160	
A 10 2_12.3	12.3	73	150	1.2	180	3420	41	150	0.68	1030	4430	
A 10 2_13.9	13.9	65	150	1.1	1300	3630	36	150	0.60	1300	4680	
A 10 2_16.4	16.4	55	150	0.91	1300	3900	30	150	0.51	1300	5010	
A 10 2_18.6	18.6	48	150	0.81	1300	4120	26.9	150	0.45	1300	5270	
A 10 2_21.4	21.4	42	150	0.70	1300	4370	23.4	150	0.39	1300	5500	
A 10 2_23.8	23.8	38	150	0.63	1300	4570	21.0	150	0.35	1300	5500	
A 10 2_25.5	25.5	35	150	0.59	1300	4710	19.6	150	0.33	1300	5500	
A 10 2_28.6	28.6	31	150	0.53	1300	4940	17.5	150	0.29	1300	5500	
A 10 2_32.2	32.2	28.0	150	0.47	1300	5190	15.5	150	0.26	1300	5500	
A 10 2_35.1	35.1	25.6	150	0.43	1300	5380	14.2	150	0.24	1300	5500	
A 10 2_40.9	40.9	22.0	150	0.37	1300	5500	12.2	150	0.20	1300	5500	
A 10 2_45.4	45.4	19.8	150	0.33	1300	5500	11.0	150	0.18	1300	5500	
A 10 2_51.3	51.3	17.6	150	0.29	1300	5500	9.8	150	0.16	1300	5500	
A 10 2_58.6	58.6	15.4	150	0.26	1300	5500	8.5	150	0.14	1300	5500	
A 10 2_65.9	65.9	13.7	150	0.23	1300	5500	7.6	150	0.13	1300	5500	
A 10 2_76.4	76.4	11.8	150	0.20	1300	5500	6.5	150	0.11	1300	5500	
A 10 2_91.6	91.6	9.8	130	0.14	1300	5500	5.5	130	0.08	1300	5500	



A 20

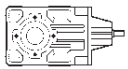
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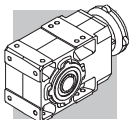
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A 20 2_5.4	5.4	523	96	5.6	610	1910	262	121	3.5	770	2400	285
A 20 2_6.5	6.5	428	107	5.1	490	2010	214	135	3.2	610	2530	
A 20 2_7.3	7.3	384	113	4.8	510	2070	192	143	3.1	630	2600	
A 20 2_8.4	8.4	334	116	4.3	510	2180	167	146	2.7	650	2750	
A 20 2_9.4	9.4	299	122	4.1	530	2260	149	154	2.6	660	2840	
A 20 2_10.3	10.3	271	183	5.5	650	1970	135	225	3.4	890	2520	
A 20 2_12.0	12.0	234	128	3.3	550	2280	117	161	2.1	690	3120	
A 20 2_14.1	14.1	199	199	4.4	750	2210	99	245	2.7	960	2820	
A 20 2_16.2	16.2	173	209	4.0	700	2310	87	250	2.4	1040	2990	
A 20 2_18.1	18.1	155	216	3.7	760	2400	77	250	2.2	1210	3170	
A 20 2_21.2	21.2	132	226	3.3	710	2540	66	250	1.8	1290	3430	
A 20 2_23.1	23.1	121	232	3.1	710	2620	61	250	1.7	1360	3580	
A 20 2_26.5	26.5	106	241	2.8	660	2750	53	250	1.5	1410	3820	
A 20 2_29.2	29.2	96	249	2.7	670	2850	48	250	1.3	1510	4000	
A 20 2_31.3	31.3	89	250	2.5	660	2940	45	250	1.2	1510	4130	
A 20 2_35.4	35.4	79	250	2.2	800	3140	40	250	1.1	1650	4380	
A 20 2_39.6	39.6	71	250	2.0	880	3320	35	250	0.98	1710	4600	
A 20 2_43.2	43.2	65	250	1.8	880	3460	32	250	0.90	1710	4790	
A 20 2_48.3	48.3	58	250	1.6	920	3650	29.0	250	0.81	1720	5030	
A 20 2_53.7	53.7	52	250	1.5	920	3840	26.1	250	0.73	1720	5270	
A 20 2_63.1	63.1	44	245	1.2	1040	4180	22.2	245	0.61	1740	5680	
A 20 2_71.0	71.0	39	210	0.92	1360	4640	19.7	210	0.46	1790	6200	
A 20 2_79.9	79.9	35	210	0.82	1360	4880	17.5	210	0.41	1790	6200	
A 20 2_92.3	92.3	30	200	0.68	1380	5250	15.2	200	0.34	1810	6200	
A 20 3_109.2	109.2	25.6	165	0.49	1180	5900	12.8	205	0.30	1300	6200	
A 20 3_120.5	120.5	23.2	168	0.45	1130	6110	11.6	210	0.28	1300	6200	
A 20 3_129.1	129.1	21.7	175	0.44	1210	6200	10.8	215	0.27	1300	6200	
A 20 3_146.1	146.1	19.2	183	0.40	1160	6200	9.6	230	0.25	1300	6200	
A 20 3_163.4	163.4	17.1	190	0.37	1240	6200	8.6	235	0.23	1300	6200	
A 20 3_178.3	178.3	15.7	195	0.35	1200	6200	7.9	245	0.22	1300	6200	
A 20 3_199.2	199.2	14.1	200	0.32	1270	6200	7.0	250	0.20	1300	6200	
A 20 3_221.3	221.3	12.7	203	0.30	1240	6200	6.3	250	0.18	1300	6200	
A 20 3_260.5	260.5	10.8	214	0.26	1270	6200	5.4	250	0.15	1300	6200	
A 20 3_292.8	292.8	9.6	218	0.24	1300	6200	4.8	250	0.14	1300	6200	
A 20 3_329.4	329.4	8.5	221	0.22	1300	6200	4.3	250	0.12	1300	6200	
A 20 3_380.9	380.9	7.4	226	0.19	1300	6200	3.7	250	0.11	1300	6200	



A 20

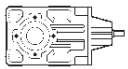
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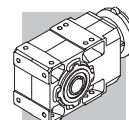
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A 20 2_5.4	5.4	168	140	2.6	900	2780	93	170	1.8	1100	3390	285
A 20 2_6.5	6.5	138	156	2.4	720	2930	76	190	1.6	860	3570	
A 20 2_7.3	7.3	123	165	2.3	740	3020	69	201	1.5	890	3670	
A 20 2_8.4	8.4	108	170	2.0	730	3180	60	206	1.4	910	3870	
A 20 2_9.4	9.4	96	179	1.9	760	3290	53	210	1.2	1090	4050	
A 20 2_10.3	10.3	87	250	2.4	1190	2990	48	250	1.3	2200	3980	
A 20 2_12.0	12.0	75	187	1.6	790	2990	42	210	0.98	1336	4510	
A 20 2_14.1	14.1	64	250	1.8	1610	3490	36	250	0.99	2200	4590	
A 20 2_16.2	16.2	56	250	1.6	1690	3730	31	250	0.86	2200	4880	
A 20 2_18.1	18.1	50	250	1.4	1860	3930	27.6	250	0.77	2200	5140	
A 20 2_21.2	21.2	42	250	1.2	1940	4230	23.6	250	0.66	2200	5500	
A 20 2_23.1	23.1	39	250	1.1	1970	4400	21.6	250	0.60	2200	5710	
A 20 2_26.5	26.5	34	250	0.95	1980	4680	18.9	250	0.53	2200	6050	
A 20 2_29.2	29.2	31	250	0.86	2000	4890	17.1	250	0.48	2200	6200	
A 20 2_31.3	31.3	28.7	250	0.80	2000	5040	16.0	250	0.44	2200	6200	
A 20 2_35.4	35.4	25.4	250	0.71	2020	5330	14.1	250	0.39	2200	6200	
A 20 2_39.6	39.6	22.7	250	0.63	2040	5590	12.6	250	0.35	2200	6200	
A 20 2_43.2	43.2	20.8	250	0.58	2040	5800	11.6	250	0.32	2200	6200	
A 20 2_48.3	48.3	18.6	250	0.52	2040	6080	10.4	250	0.29	2200	6200	
A 20 2_53.7	53.7	16.8	250	0.47	2050	6200	9.3	250	0.26	2200	6200	
A 20 2_63.1	63.1	14.3	245	0.39	2060	6200	7.9	245	0.22	2200	6200	
A 20 2_71.0	71.0	12.7	210	0.30	2120	6200	7.0	210	0.16	2200	6200	
A 20 2_79.9	79.9	11.3	210	0.26	2120	6200	6.3	210	0.15	2200	6200	
A 20 2_92.3	92.3	9.7	200	0.22	2140	6200	5.4	200	0.12	2200	6200	
A 20 3_109.2	109.2	8.2	240	0.23	1300	6200	4.6	250	0.13	1300	6200	
A 20 3_120.5	120.5	7.5	245	0.21	1300	6200	4.1	250	0.12	1300	6200	
A 20 3_129.1	129.1	7.0	250	0.20	1300	6200	3.9	250	0.11	1300	6200	
A 20 3_146.1	146.1	6.2	250	0.18	1300	6200	3.4	250	0.10	1300	6200	
A 20 3_163.4	163.4	5.5	250	0.16	1300	6200	3.1	250	0.09	1300	6200	
A 20 3_178.3	178.3	5.0	250	0.15	1300	6200	2.8	250	0.08	1300	6200	
A 20 3_199.2	199.2	4.5	250	0.13	1300	6200	2.5	250	0.07	1300	6200	
A 20 3_221.3	221.3	4.1	250	0.12	1300	6200	2.3	250	0.06	1300	6200	
A 20 3_260.5	260.5	3.5	250	0.10	1300	6200	1.9	250	0.06	1300	6200	
A 20 3_292.8	292.8	3.1	250	0.09	1300	6200	1.7	250	0.05	1300	6200	
A 20 3_329.4	329.4	2.7	250	0.08	1300	6200	1.5	250	0.04	1300	6200	
A 20 3_380.9	380.9	2.4	250	0.07	1300	6200	1.3	250	0.04	1300	6200	



A 30

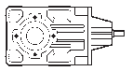
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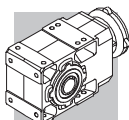
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A 30 2_6.4	6.4	437	185	9.0	1120	2630	218	230	5.6	1470	3330	
A 30 2_7.0	7.0	399	194	8.6	1140	2690	199	245	5.4	1430	3380	
A 30 2_8.5	8.5	331	200	7.4	1220	2900	165	250	4.6	1570	3660	
A 30 2_9.3	9.3	301	214	7.2	1140	2950	150	270	4.5	1440	3710	
A 30 2_10.5	10.5	268	278	8.3	1800	2770	134	340	5.1	2200	3550	
A 30 2_11.8	11.8	238	230	6.1	1130	3200	119	290	3.8	1420	4030	
A 30 2_13.6	13.6	206	301	6.9	1830	3030	103	370	4.3	2200	3870	
A 30 2_16.3	16.3	171	318	6.1	1830	3240	86	385	3.7	2200	4170	
A 30 2_18.0	18.0	156	327	5.7	1840	3350	78	400	3.5	2200	4290	
A 30 2_20.5	20.5	136	340	5.2	1830	3510	68	410	3.1	2200	4530	
A 30 2_22.8	22.8	123	351	4.8	1850	3640	62	410	2.8	2200	4770	
A 30 2_26.5	26.5	106	367	4.3	1840	3850	53	410	2.4	2200	5150	
A 30 2_29.3	29.3	96	378	4.0	1847	3980	48	410	2.2	2200	5400	
A 30 2_33.4	33.4	84	393	3.7	1840	4170	42	410	1.9	2200	5750	
A 30 2_36.6	36.6	76	404	3.4	1840	4310	38	410	1.7	2200	6010	
A 30 2_39.3	39.3	71	410	3.3	1810	4430	36	410	1.6	2200	6200	
A 30 2_43.4	43.4	64	410	2.9	1850	4660	32	410	1.5	2200	6490	
A 30 2_48.3	48.3	58	410	2.6	1860	4920	29.0	410	1.3	2200	6810	
A 30 2_52.7	52.7	53	410	2.4	1860	5130	26.6	410	1.2	2200	7080	
A 30 2_59.4	59.4	47	400	2.1	1890	5500	23.6	400	1.0	2200	7530	
A 30 2_66.0	66.0	42	390	1.8	1900	5840	21.2	390	0.92	2200	7940	
A 30 2_76.5	76.5	37	350	1.4	1950	6480	18.3	350	0.71	2200	8690	
A 30 2_86.7	86.7	32	320	1.2	2000	7010	16.2	320	0.58	2200	9310	
A 30 2_97.5	97.5	28.7	300	0.96	2020	7480	14.4	300	0.48	2200	9600	
A 30 3_109.1	109.1	25.7	240	0.71	1300	8240	12.8	300	0.44	1300	9600	
A 30 3_120.5	120.5	23.2	243	0.65	1120	8540	11.6	300	0.40	1300	9600	
A 30 3_137.4	137.4	20.4	250	0.59	1300	8950	10.2	315	0.37	1300	9600	
A 30 3_150.7	150.7	18.6	261	0.56	1170	9210	9.3	330	0.35	1300	9600	
A 30 3_161.4	161.4	17.3	270	0.54	1300	9410	8.7	340	0.34	1300	9600	
A 30 3_178.5	178.5	15.7	274	0.49	1210	9600	7.8	345	0.31	1300	9600	
A 30 3_198.5	198.5	14.1	280	0.45	1300	9600	7.1	350	0.28	1300	9600	
A 30 3_216.6	216.6	12.9	287	0.43	1240	9600	6.5	360	0.27	1300	9600	
A 30 3_244.3	244.3	11.5	295	0.39	1300	9600	5.7	370	0.24	1300	9600	
A 30 3_271.5	271.5	10.3	301	0.36	1280	9600	5.2	380	0.23	1300	9600	
A 30 3_314.5	314.5	8.9	309	0.32	1300	9600	4.5	390	0.20	1300	9600	
A 30 3_356.3	356.3	7.9	320	0.29	1300	9600	3.9	370	0.17	1300	9600	
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A 30

410 Nm

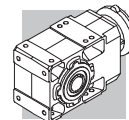
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A 30 2_6.4	6.4	140	270	4.2	1630	3830	78	300	2.6	2200	4830	
A 30 2_7.0	7.0	128	284	4.1	1650	3920	71	300	2.4	2200	5040	
A 30 2_8.5	8.5	106	290	3.4	1810	4240	59	300	2.0	2200	5470	
A 30 2_9.3	9.3	97	300	3.2	1900	4380	54	300	1.8	2200	5710	
A 30 2_10.5	10.5	86	391	3.7	2200	4130	48	410	2.2	2200	5400	
A 30 2_11.8	11.8	76	300	2.6	2200	4880	42	300	1.4	2200	6320	
A 30 2_13.6	13.6	66	410	3.0	2200	4600	37	410	1.7	2200	6110	
A 30 2_16.3	16.3	55	410	2.5	2200	5044	31	410	1.4	2200	6650	
A 30 2_18.0	18.0	50	410	2.3	2200	5280	27.8	410	1.3	2200	6940	
A 30 2_20.5	20.5	44	410	2.0	2200	5630	24.3	410	1.1	2200	7360	
A 30 2_22.8	22.8	40	410	1.8	2200	5910	22.0	410	1.0	2200	7700	
A 30 2_26.5	26.5	34	410	1.5	2200	6340	18.8	410	0.86	2200	8230	
A 30 2_29.3	29.3	31	410	1.4	2200	6640	17.1	410	0.78	2200	8590	
A 30 2_33.4	33.4	26.9	410	1.2	2200	7040	15.0	410	0.68	2200	9080	
A 30 2_36.6	36.6	24.6	410	1.1	2200	7340	13.6	410	0.62	2200	9440	
A 30 2_39.3	39.3	22.9	410	1.0	2200	7560	12.7	410	0.58	2200	9600	
A 30 2_43.4	43.4	20.7	410	0.95	2200	7900	11.5	410	0.53	2200	9600	
A 30 2_48.3	48.3	18.6	410	0.85	2200	8270	10.4	410	0.47	2200	9600	
A 30 2_52.7	52.7	17.1	410	0.78	2200	8590	9.5	410	0.43	2200	9600	
A 30 2_59.4	59.4	15.1	400	0.67	2200	9090	8.4	400	0.37	2200	9600	
A 30 2_66.0	66.0	13.6	390	0.59	2200	9560	7.6	390	0.33	2200	9600	
A 30 2_76.5	76.5	11.8	350	0.46	2200	9600	6.5	350	0.25	2200	9600	
A 30 2_86.7	86.7	10.4	320	0.37	2200	9600	5.8	320	0.21	2200	9600	
A 30 2_97.5	97.5	9.2	300	0.31	2200	9600	5.1	300	0.17	2200	9600	
A 30 3_109.1	109.1	8.3	350	0.33	1300	9600	4.6	370	0.20	1300	9600	
A 30 3_120.5	120.5	7.5	354	0.30	1300	9600	4.2	410	0.20	1300	9600	
A 30 3_137.4	137.4	6.5	370	0.28	1300	9600	3.6	410	0.17	1300	9600	
A 30 3_150.7	150.7	6.0	381	0.26	1300	9600	3.3	410	0.16	1300	9600	
A 30 3_161.4	161.4	5.6	390	0.25	1300	9600	3.1	410	0.15	1300	9600	
A 30 3_178.5	178.5	5.0	400	0.23	1300	9600	2.8	410	0.13	1300	9600	
A 30 3_198.5	198.5	4.5	410	0.21	1300	9600	2.5	410	0.12	1300	9600	
A 30 3_216.6	216.6	4.2	410	0.20	1300	9600	2.3	410	0.11	1300	9600	
A 30 3_244.3	244.3	3.7	410	0.17	1300	9600	2.0	410	0.10	1300	9600	
A 30 3_271.5	271.5	3.3	410	0.16	1300	9600	1.8	410	0.09	1300	9600	
A 30 3_314.5	314.5	2.9	410	0.13	1300	9600	1.6	410	0.07	1300	9600	
A 30 3_356.3	356.3	2.5	380	0.11	1300	9600	1.4	380	0.06	1300	9600	
A 30 3_400.8	400.8	2.2	360	0.09	1300	9600	1.2	360	0.05	1300	9600	



A 35

600 Nm

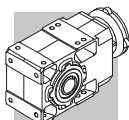
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		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
A 35 2_5.4	5.4	517	246	14.2	1420	4000	259	310	8.9	1790	5050	293
A 35 2_6.4	6.4	437	262	12.7	1420	4230	218	330	8.0	1790	5330	
A 35 2_7.0	7.0	399	278	12.3	1410	4320	199	350	7.8	1790	5440	
A 35 2_8.5	8.5	331	286	10.5	1450	4650	165	360	6.6	1830	5850	
A 35 2_9.3	9.3	301	302	10.1	1450	4760	150	380	6.4	1830	6000	
A 35 2_10.6	10.6	263	310	9.1	1440	5010	132	390	5.7	1830	6310	
A 35 2_11.8	11.8	238	317	8.4	1480	5200	119	400	5.3	1860	6550	
A 35 2_13.1	13.1	214	400	10.9	1630	4470	107	550	6.6	2100	5780	
A 35 2_15.5	15.5	181	430	10.0	1620	4670	90	570	5.7	2120	6190	
A 35 2_17.0	17.0	165	465	9.7	1620	4730	83	600	5.5	2130	6310	
A 35 2_20.4	20.4	137	500	8.4	1630	5080	69	600	4.6	2170	6930	
A 35 2_22.5	22.5	125	540	7.8	1660	5290	62	600	4.2	2200	7260	
A 35 2_25.7	25.7	109	585	7.1	1640	5540	55	600	3.6	2200	7740	
A 35 2_28.4	28.4	98	600	6.6	1660	5760	49	600	3.3	2200	8130	
A 35 2_33.2	33.2	84	600	5.6	910	6240	42	600	2.8	2200	8730	
A 35 2_36.6	36.6	76	600	5.1	1080	6560	38	600	2.6	2200	9140	
A 35 2_41.8	41.8	67	600	4.5	1140	7010	34	600	2.2	2200	9700	
A 35 2_45.8	45.8	61	600	4.1	1260	7330	31	600	2.0	2200	10100	
A 35 2_49.1	49.1	57	600	3.8	1260	7580	28.5	600	1.9	2200	10400	
A 35 2_54.3	54.3	52	600	3.4	1360	7950	25.8	600	1.7	2200	10900	
A 35 2_60.4	60.4	46	600	3.1	1470	8360	23.2	600	1.6	2200	11400	
A 35 2_65.8	65.8	43	600	2.8	1470	8700	21.3	600	1.4	2200	11800	
A 35 2_74.3	74.3	38	600	2.5	1560	9200	18.8	600	1.3	2200	12000	
A 35 2_82.5	82.5	34	600	2.3	1560	9650	17.0	600	1.1	2200	12000	
A 35 2_95.6	95.6	29.3	540	1.8	1860	10600	14.6	540	0.88	2200	12000	
A 35 3_105.5	105.5	26.5	430	1.3	550	12000	13.3	525	0.80	780	12000	
A 35 3_116.9	116.9	24.0	455	1.3	650	12000	12.0	560	0.77	870	12000	
A 35 3_136.3	136.3	20.5	470	1.1	870	12000	10.3	575	0.68	1110	12000	
A 35 3_150.6	150.6	18.6	495	1.1	900	12000	9.3	600	0.64	1160	12000	
A 35 3_171.8	171.8	16.3	505	0.95	960	12000	8.1	600	0.56	1250	12000	
A 35 3_188.3	188.3	14.9	525	0.90	990	12000	7.4	600	0.51	1300	12000	
A 35 3_201.8	201.8	13.9	525	0.84	1020	12000	6.9	600	0.48	1300	12000	
A 35 3_223.2	223.2	12.5	545	0.79	1050	12000	6.3	600	0.43	1300	12000	
A 35 3_248.1	248.1	11.3	565	0.73	1080	12000	5.6	600	0.39	1300	12000	
A 35 3_270.7	270.7	10.3	570	0.68	1110	12000	5.2	600	0.36	1300	12000	
A 35 3_305.4	305.4	9.2	585	0.62	1140	12000	4.6	600	0.32	1300	12000	
A 35 3_339.3	339.3	8.3	520	0.49	1210	12000	4.1	520	0.25	1300	12000	
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A 35

600 Nm

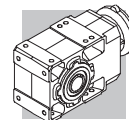
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A 35 2_6.4	6.4	140	350	5.5	2190	6340	78	350	3.0	2200	8090	
A 35 2_7.0	7.0	128	370	5.3	2200	6490	71	370	2.9	2200	8290	
A 35 2_8.5	8.5	106	380	4.5	2200	6970	59	380	2.5	2200	8890	
A 35 2_9.3	9.3	97	400	4.3	2200	7160	54	400	2.4	2200	9140	
A 35 2_10.6	10.6	85	400	3.8	2200	7570	47	400	2.1	2200	9650	
A 35 2_11.8	11.8	76	400	3.4	2200	7910	42	400	1.9	2200	10100	
A 35 2_13.1	13.1	69	600	4.6	2200	6910	38	600	2.6	2200	9140	
A 35 2_15.5	15.5	58	600	3.9	2090	7510	32	600	2.2	2200	9860	
A 35 2_17.0	17.0	53	600	3.5	2200	7840	29.5	600	2.0	2200	10300	
A 35 2_20.4	20.4	44	600	2.9	2200	8560	24.5	600	1.6	2200	11100	
A 35 2_22.5	22.5	40	600	2.7	2200	8950	22.2	600	1.5	2200	11600	
A 35 2_25.7	25.7	35	600	2.3	2200	9500	19.5	600	1.3	2200	12000	
A 35 2_28.4	28.4	32	600	2.1	2200	9950	17.6	600	1.2	2200	12000	
A 35 2_33.2	33.2	27.1	600	1.8	2200	10700	15.1	600	1.0	2200	12000	
A 35 2_36.6	36.6	24.6	600	1.6	2200	11100	13.7	600	0.91	2200	12000	
A 35 2_41.8	41.8	21.5	600	1.4	2200	11800	12.0	600	0.80	2200	12000	
A 35 2_45.8	45.8	19.6	600	1.3	2200	12000	10.9	600	0.73	2200	12000	
A 35 2_49.1	49.1	18.3	600	1.2	2200	12000	10.2	600	0.68	2200	12000	
A 35 2_54.3	54.3	16.6	600	1.1	2200	12000	9.2	600	0.62	2200	12000	
A 35 2_60.4	60.4	14.9	600	1.0	2200	12000	8.3	600	0.55	2200	12000	
A 35 2_65.8	65.8	13.7	600	0.91	2200	12000	7.6	600	0.51	2200	12000	
A 35 2_74.3	74.3	12.1	600	0.81	2200	12000	6.7	600	0.45	2200	12000	
A 35 2_82.5	82.5	10.9	600	0.73	2200	12000	6.1	600	0.40	2200	12000	
A 35 2_95.6	95.6	9.4	540	0.57	2200	12000	5.2	540	0.31	2200	12000	
A 35 3_105.5	105.5	8.5	600	0.59	940	12000	4.7	600	0.33	1300	12000	
A 35 3_116.9	116.9	7.7	600	0.53	1230	12000	4.3	600	0.30	1300	12000	
A 35 3_136.3	136.3	6.6	600	0.46	1300	12000	3.7	600	0.25	1300	12000	
A 35 3_150.6	150.6	6.0	600	0.41	1300	12000	3.3	600	0.23	1300	12000	
A 35 3_171.8	171.8	5.2	600	0.36	1300	12000	2.9	600	0.20	1300	12000	
A 35 3_188.3	188.3	4.8	600	0.33	1300	12000	2.7	600	0.18	1300	12000	
A 35 3_201.8	201.8	4.5	600	0.31	1300	12000	2.5	600	0.17	1300	12000	
A 35 3_223.2	223.2	4.0	600	0.28	1300	12000	2.2	600	0.15	1300	12000	
A 35 3_248.1	248.1	3.6	600	0.25	1300	12000	2.0	600	0.14	1300	12000	
A 35 3_270.7	270.7	3.3	600	0.23	1300	12000	1.8	600	0.13	1300	12000	
A 35 3_305.4	305.4	2.9	600	0.20	1300	12000	1.6	600	0.11	1300	12000	
A 35 3_339.3	339.3	2.7	520	0.16	1300	12000	1.5	520	0.09	1300	12000	
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A 41

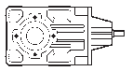
850 Nm

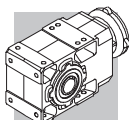
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A 41 2_5.2	5.2	534	450	27	1790	4350	267	550	16.4	2450	5560	297
A 41 2_7.1	7.1	393	490	22	1890	4850	197	550	12.0	2670	6430	
A 41 2_8.3	8.3	336	510	19.1	1900	5140	168	550	10.3	2750	6920	
A 41 2_9.2	9.2	304	530	18.0	1980	5300	152	550	9.3	2860	7240	
A 41 2_10.1	10.1	276	435	13.4	2680	6030	138	535	8.2	3390	7650	
A 41 2_11.7	11.7	238	550	14.6	2050	5870	119	550	7.3	2950	8070	
A 41 2_13.8	13.8	204	480	10.9	2690	6680	102	585	6.6	3430	8510	
A 41 2_16.1	16.1	174	500	9.7	2700	7070	87	610	5.9	3430	9000	
A 41 2_17.8	17.8	158	515	9.0	2730	7310	79	630	5.5	3470	9300	
A 41 2_22.7	22.7	123	550	7.6	2730	7970	62	680	4.7	3460	10100	
A 41 2_28.3	28.3	99	595	6.6	2670	8570	49	730	4.0	3450	10900	
A 41 2_35.9	35.9	78	635	5.5	2590	9320	39	780	3.4	3410	11800	
A 41 2_45.1	45.1	62	680	4.7	2500	10100	31	830	2.9	3330	12800	
A 41 2_48.3	48.3	58	690	4.5	2430	10300	29.0	850	2.7	3200	13100	
A 41 2_53.1	53.1	53	700	4.1	2470	10700	26.3	850	2.5	3330	13700	
A 41 2_58.8	58.8	48	730	3.9	2390	11100	23.8	850	2.3	3460	14300	
A 41 2_64.2	64.2	44	740	3.6	2320	11500	21.8	850	2.1	3460	14800	
A 41 2_71.3	71.3	39	780	3.4	2120	11800	19.6	850	1.9	3470	15000	
A 41 2_79.2	79.2	35	800	3.1	1990	12300	17.7	800	1.6	3500	15000	
A 41 3_92.8	92.8	30	650	2.3	270	14000	15.1	800	1.4	430	15000	
A 41 3_115.9	115.9	24.2	800	2.2	310	14600	12.1	850	1.2	980	15000	
A 41 3_146.9	146.9	19.1	850	1.9	790	15000	9.5	850	0.93	1640	15000	
A 41 3_184.4	184.4	15.2	850	1.5	1290	15000	7.6	850	0.74	1770	15000	
A 41 3_197.5	197.5	14.2	850	1.4	1360	15000	7.1	850	0.69	1790	15000	
A 41 3_217.4	217.4	12.9	850	1.3	1390	15000	6.4	850	0.63	1820	15000	
A 41 3_240.6	240.6	11.6	850	1.1	1410	15000	5.8	850	0.57	1840	15000	
A 41 3_262.5	262.5	10.7	850	1.0	1430	15000	5.3	850	0.52	1860	15000	
A 41 3_291.7	291.7	9.6	850	0.94	1450	15000	4.8	850	0.47	1880	15000	
A 41 3_324.2	324.2	8.6	850	0.84	1470	15000	4.3	850	0.42	1900	15000	
A 41 3_376.8	376.8	7.4	850	0.73	1500	15000	3.7	850	0.36	1930	15000	



A 41

850 Nm

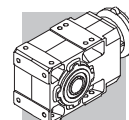
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A 41 2_5.2	5.2	172	550	10.5	3140	6850	95	550	5.8	3500	8900	297
A 41 2_7.1	7.1	126	550	7.7	3360	7870	70	550	4.3	3500	10100	
A 41 2_8.3	8.3	108	550	6.6	3440	8430	60	550	3.7	3500	10800	
A 41 2_9.2	9.2	98	550	6.0	3500	8800	54	550	3.3	3500	11300	
A 41 2_10.1	10.1	89	610	6.0	3500	8920	49	730	4.0	3500	10900	
A 41 2_11.7	11.7	77	550	4.7	3500	9760	43	550	2.6	3500	12400	
A 41 2_13.8	13.8	65	670	4.9	3500	9900	36	800	3.2	3500	12100	
A 41 2_16.1	16.1	56	700	4.4	3500	10500	31	830	2.9	3500	12800	
A 41 2_17.8	17.8	51	720	4.1	3500	10800	28.1	850	2.7	3500	13300	
A 41 2_22.7	22.7	40	780	3.4	3500	11700	22.0	850	2.1	3500	14800	
A 41 2_28.3	28.3	32	830	2.9	3500	12700	17.7	850	1.7	3500	15000	
A 41 2_35.9	35.9	25.1	850	2.4	3500	14000	13.9	850	1.3	3500	15000	
A 41 2_45.1	45.1	20.0	850	1.9	3500	15000	11.1	850	1.1	3500	15000	
A 41 2_48.3	48.3	18.6	850	1.8	3500	15000	10.4	850	0.98	3500	15000	
A 41 2_53.1	53.1	16.9	850	1.6	3500	15000	9.4	850	0.89	3500	15000	
A 41 2_58.8	58.8	15.3	850	1.4	3500	15000	8.5	850	0.81	3500	15000	
A 41 2_64.2	64.2	14.0	850	1.3	3300	15000	7.8	850	0.74	3500	15000	
A 41 2_71.3	71.3	12.6	850	1.2	3500	15000	7.0	850	0.66	3500	15000	
A 41 2_79.2	79.2	11.4	800	1.0	3500	15000	6.3	800	0.56	3500	15000	
A 41 3_92.8	92.8	9.7	800	0.89	1080	15000	5.4	800	0.50	2110	15000	
A 41 3_115.9	115.9	7.8	850	0.76	1630	15000	4.3	850	0.42	2200	15000	
A 41 3_146.9	146.9	6.1	850	0.60	2020	15000	3.4	850	0.33	2200	15000	
A 41 3_184.4	184.4	4.9	850	0.48	2100	15000	2.7	850	0.27	2200	15000	
A 41 3_197.5	197.5	4.6	850	0.45	2120	15000	2.5	850	0.25	2200	15000	
A 41 3_217.4	217.4	4.1	850	0.40	2150	15000	2.3	850	0.22	2200	15000	
A 41 3_240.6	240.6	3.7	850	0.37	2170	15000	2.1	850	0.20	2200	15000	
A 41 3_262.5	262.5	3.4	850	0.34	2190	15000	1.9	850	0.19	2200	15000	
A 41 3_291.7	291.7	3.1	850	0.30	2200	15000	1.7	850	0.17	2200	15000	
A 41 3_324.2	324.2	2.8	850	0.27	2200	15000	1.5	850	0.15	2200	15000	
A 41 3_376.8	376.8	2.4	850	0.23	2200	15000	1.3	850	0.13	2200	15000	



A 50

1500 Nm

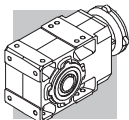
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A 50 2_9.7	9.7	288	600	19.2	2330	8530	144	750	12.0	2950	10800	
A 50 2_13.1	13.1	214	600	14.3	2460	9600	107	750	8.9	3110	12100	
A 50 2_16.6	16.6	169	640	12.0	2490	10400	84	800	7.5	3150	13100	
A 50 2_20.9	20.9	134	640	9.5	2540	11400	67	800	6.0	3210	14400	
A 50 3_24.0	24.0	116	1150	15.4	1850	7020	58	1500	10.0	2100	8540	
A 50 3_26.4	26.4	106	1200	14.6	2100	7170	53	1500	9.1	2690	9100	
A 50 3_32.4	32.4	86	1290	12.8	1800	4630	43	1500	7.5	2760	10400	
A 50 3_35.6	35.6	79	1340	12.1	2080	7830	39	1500	6.8	3290	11000	
A 50 3_40.9	40.9	68	1415	11.1	1740	8130	34	1500	5.9	3220	11900	
A 50 3_45.0	45.0	62	1470	10.5	2030	8340	31	1500	5.4	3440	12600	
A 50 3_51.7	51.7	54	1500	9.4	1680	8970	27.1	1500	4.7	3400	13600	
A 50 3_56.8	56.8	49	1500	8.5	2150	9540	24.6	1500	4.3	3480	14400	
A 50 3_63.9	63.9	44	1500	7.6	1900	10300	21.9	1500	3.8	3450	15300	
A 50 3_70.2	70.2	40	1500	6.9	2350	10900	19.9	1500	3.4	3500	16100	
A 50 3_81.5	81.5	34	1500	5.9	2170	11900	17.2	1500	3.0	3500	17300	
A 50 3_89.5	89.5	31	1500	5.4	2590	12600	15.6	1500	2.7	3500	18200	
A 50 3_99.5	99.5	28.1	1500	4.9	2260	13400	14.1	1500	2.4	3500	19200	
A 50 3_109.4	109.4	25.6	1500	4.4	2680	14100	12.8	1500	2.2	3500	20000	
A 50 3_118.0	118.0	23.7	1500	4.1	2390	14700	11.9	1500	2.0	3500	20000	
A 50 3_129.7	129.7	21.6	1500	3.7	2720	15400	10.8	1500	1.9	3500	20000	
A 50 3_140.6	140.6	19.9	1500	3.4	2440	16100	10.0	1500	1.7	3500	20000	
A 50 3_154.6	154.6	18.1	1500	3.1	2730	16900	9.1	1500	1.6	3500	20000	
A 50 3_173.4	173.4	16.2	1500	2.8	2480	17900	8.1	1500	1.4	3500	20000	
A 50 3_190.6	190.6	14.7	1500	2.5	2740	18800	7.3	1500	1.3	3500	20000	
A 50 4_211.0	211.0	13.3	1500	2.3	1930	20000	6.6	1500	1.2	2200	20000	
A 50 4_232.0	232.0	12.1	1500	2.1	1970	20000	6.0	1500	1.1	2200	20000	
A 50 4_260.9	260.9	10.7	1500	1.9	2010	20000	5.4	1500	0.95	2200	20000	
A 50 4_286.8	286.8	9.8	1500	1.7	2040	20000	4.9	1500	0.86	2200	20000	
A 50 4_332.6	332.6	8.4	1500	1.5	2080	20000	4.2	1500	0.74	2200	20000	
A 50 4_365.6	365.6	7.7	1500	1.4	2100	20000	3.8	1500	0.68	2200	20000	
A 50 4_406.4	406.4	6.9	1500	1.2	2130	20000	3.4	1500	0.61	2200	20000	
A 50 4_446.8	446.8	6.3	1500	1.1	2140	20000	3.1	1500	0.55	2200	20000	
A 50 4_481.6	481.6	5.8	1500	1.0	2160	20000	2.9	1500	0.51	2200	20000	
A 50 4_529.5	529.5	5.3	1500	0.93	2170	20000	2.6	1500	0.47	2200	20000	
A 50 4_574.2	574.2	4.9	1500	0.86	2190	20000	2.4	1500	0.43	2200	20000	
A 50 4_631.2	631.2	4.4	1500	0.78	2200	20000	2.2	1500	0.39	2200	20000	
A 50 4_707.9	707.9	4.0	1500	0.70	2200	20000	2.0	1500	0.35	2200	20000	
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A 50

1500 Nm

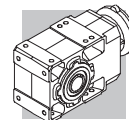
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A 50 2_9.7	9.7	92	830	8.5	3490	12600	51	1000	5.7	3500	15300	
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A 50 2_20.9	20.9	43	880	4.2	3500	16800	23.9	1000	2.7	3500	20000	
A 50 3_24.0	24.0	37	1500	6.5	3480	11300	20.8	1500	3.6	3500	15700	
A 50 3_26.4	26.4	34	1500	5.9	3500	12000	18.9	1500	3.3	3500	16500	
A 50 3_32.4	32.4	27.8	1500	4.8	3500	13400	15.4	1500	2.7	3500	18300	
A 50 3_35.6	35.6	25.3	1500	4.4	3500	14200	14.0	1500	2.4	3500	19200	
A 50 3_40.9	40.9	22.0	1500	3.8	3500	15300	12.2	1500	2.1	3500	20000	
A 50 3_45.0	45.0	20.0	1500	3.5	3500	16000	11.1	1500	1.9	3500	20000	
A 50 3_51.7	51.7	17.4	1500	3.0	3450	17200	9.7	1500	1.7	3500	20000	
A 50 3_56.8	56.8	15.8	1500	2.7	3500	18100	8.8	1500	1.5	3500	20000	
A 50 3_63.9	63.9	14.1	1500	2.4	3500	19200	7.8	1500	1.4	3500	20000	
A 50 3_70.2	70.2	12.8	1500	2.2	3500	20000	7.1	1500	1.2	3500	20000	
A 50 3_81.5	81.5	11.0	1500	1.9	3500	20000	6.1	1500	1.1	3500	20000	
A 50 3_89.5	89.5	10.1	1500	1.7	3500	20000	5.6	1500	0.96	3500	20000	
A 50 3_99.5	99.5	9.0	1500	1.6	3500	20000	5.0	1500	0.87	3500	20000	
A 50 3_109.4	109.4	8.2	1500	1.4	3500	20000	4.6	1500	0.79	3500	20000	
A 50 3_118.0	118.0	7.6	1500	1.3	3500	20000	4.2	1500	0.73	3500	20000	
A 50 3_129.7	129.7	6.9	1500	1.2	3500	20000	3.9	1500	0.67	3500	20000	
A 50 3_140.6	140.6	6.4	1500	1.1	3500	20000	3.6	1500	0.61	3500	20000	
A 50 3_154.6	154.6	5.8	1500	1.0	3500	20000	3.2	1500	0.56	3500	20000	
A 50 3_173.4	173.4	5.2	1500	0.90	3500	20000	2.9	1500	0.50	3500	20000	
A 50 3_190.6	190.6	4.7	1500	0.82	3500	20000	2.6	1500	0.45	3500	20000	
A 50 4_211.0	211.0	4.3	1500	0.75	2200	20000	2.4	1500	0.42	2200	20000	
A 50 4_232.0	232.0	3.9	1500	0.68	2200	20000	2.2	1500	0.38	2200	20000	
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A 50 4_286.8	286.8	3.1	1500	0.55	2200	20000	1.7	1500	0.31	2200	20000	
A 50 4_332.6	332.6	2.7	1500	0.48	2200	20000	1.5	1500	0.27	2200	20000	
A 50 4_365.6	365.6	2.5	1500	0.43	2200	20000	1.4	1500	0.24	2200	20000	
A 50 4_406.4	406.4	2.2	1500	0.39	2200	20000	1.2	1500	0.22	2200	20000	
A 50 4_446.8	446.8	2.0	1500	0.36	2200	20000	1.1	1500	0.20	2200	20000	
A 50 4_481.6	481.6	1.9	1500	0.33	2200	20000	1.0	1500	0.18	2200	20000	
A 50 4_529.5	529.5	1.7	1500	0.30	2200	20000	0.94	1500	0.17	2200	20000	
A 50 4_574.2	574.2	1.6	1500	0.28	2200	20000	0.87	1500	0.15	2200	20000	
A 50 4_631.2	631.2	1.4	1500	0.25	2200	20000	0.79	1500	0.14	2200	20000	
A 50 4_707.9	707.9	1.3	1500	0.22	2200	20000	0.71	1500	0.12	2200	20000	
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A 55

2000 Nm

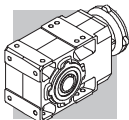
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A 55 2_4.9	4.9	571	760	48	1320	15100	286	900	28	2150	18700	304
A 55 2_6.4	6.4	438	800	39	1950	16400	219	950	23	2860	20300	
A 55 2_8.5	8.5	329	800	30	2810	18000	165	950	17.5	3500	22200	
A 55 2_10.4	10.4	269	840	25	2900	19100	135	1000	15.1	3500	23600	
A 55 2_13.1	13.1	214	840	20	3230	20600	107	1000	11.9	3500	25500	
A 55 2_15.7	15.7	178	840	16.7	3440	21900	89	1000	9.9	3500	27000	
A 55 2_19.2	19.2	146	925	15.0	3160	23200	73	1100	8.9	3500	28600	
A 55 3_23.8	23.8	118	1600	22	2050	21000	59	1950	13.2	2640	26000	
A 55 3_29.9	29.9	94	1700	18.3	2110	22500	47	2000	10.8	2770	28200	
A 55 3_40.3	40.3	69	1850	14.8	2150	24800	35	2000	8.0	2930	30000	
A 55 3_51.0	51.0	55	2000	12.6	2170	26500	27.5	2000	6.3	3050	30000	
A 55 3_64.3	64.3	44	2000	10.0	2230	29000	21.8	2000	5.0	3110	30000	
A 55 3_79.5	79.5	35	2000	8.1	1040	30000	17.6	2000	4.1	2820	30000	
A 55 3_101.4	101.4	27.6	2000	6.4	1340	30000	13.8	2000	3.2	3130	30000	
A 55 3_123.9	123.9	22.6	2000	5.2	1450	30000	11.3	2000	2.6	3230	30000	
A 55 3_132.7	132.7	21.1	2000	4.9	1450	30000	10.6	2000	2.4	3240	30000	
A 55 3_146.8	146.8	19.1	2000	4.4	1610	30000	9.5	2000	2.2	3290	30000	
A 55 3_160.4	160.4	17.5	2000	4.0	1660	30000	8.7	2000	2.0	3300	30000	
A 55 3_175.0	175.0	16.0	2000	3.7	1660	30000	8.0	2000	1.8	3300	30000	
A 55 3_194.2	194.2	14.4	2000	3.3	1710	30000	7.2	2000	1.7	3310	30000	
A 55 4_208.1	208.1	13.5	1600	2.5	1890	30000	6.7	1950	1.5	2200	30000	
A 55 4_262.6	262.6	10.7	1650	2.1	1980	30000	5.3	2000	1.3	2200	30000	
A 55 4_324.7	324.7	8.6	1750	1.8	2030	30000	4.3	2000	1.0	2200	30000	
A 55 4_414.0	414.0	6.8	1850	1.5	2080	30000	3.4	2000	0.80	2200	30000	
A 55 4_505.9	505.9	5.5	1900	1.2	2120	30000	2.8	2000	0.65	2200	30000	
A 55 4_542.0	542.0	5.2	1900	1.2	2140	30000	2.6	2000	0.61	2200	30000	
A 55 4_599.5	599.5	4.7	1950	1.1	2150	30000	2.3	2000	0.55	2200	30000	
A 55 4_655.1	655.1	4.3	1950	1.0	2180	30000	2.1	2000	0.50	2200	30000	
A 55 4_714.7	714.7	3.9	1950	0.90	2200	30000	2.0	2000	0.46	2200	30000	
A 55 4_793.0	793.0	3.5	2000	0.83	2200	30000	1.8	2000	0.42	2200	30000	



A 55

2000 Nm

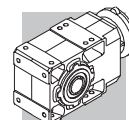
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A 55 2_4.9	4.9	184	1000	20	2850	21400	102	1160	13.1	3500	25600	304
A 55 2_6.4	6.4	141	1060	16.6	3500	23200	78	1230	10.7	3500	27700	
A 55 2_8.5	8.5	106	1060	12.6	3500	25400	59	1230	8.1	3500	30000	
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A 55 2_13.1	13.1	69	1120	8.6	3500	29100	38	1290	5.5	3500	30000	
A 55 2_15.7	15.7	57	1120	7.2	3500	30000	32	1290	4.6	3500	30000	
A 55 2_19.2	19.2	47	1230	6.4	3500	30000	26.0	1420	4.1	3500	30000	
A 55 3_23.8	23.8	38	2000	8.7	3280	30000	21.0	2000	4.8	3500	30000	
A 55 3_29.9	29.9	30	2000	6.9	3450	30000	16.7	2000	3.8	3500	30000	
A 55 3_40.3	40.3	22.3	2000	5.1	3500	30000	12.4	2000	2.9	3500	30000	
A 55 3_51.0	51.0	17.6	2000	4.1	3500	30000	9.8	2000	2.3	3500	30000	
A 55 3_64.3	64.3	14.0	2000	3.2	3500	30000	7.8	2000	1.8	3500	30000	
A 55 3_79.5	79.5	11.3	2000	2.6	3500	30000	6.3	2000	1.4	3500	30000	
A 55 3_101.4	101.4	8.9	2000	2.0	3500	30000	4.9	2000	1.1	3500	30000	
A 55 3_123.9	123.9	7.3	2000	1.7	3500	30000	4.0	2000	0.93	3500	30000	
A 55 3_132.7	132.7	6.8	2000	1.6	3500	30000	3.8	2000	0.87	3500	30000	
A 55 3_146.8	146.8	6.1	2000	1.4	3500	30000	3.4	2000	0.78	3500	30000	
A 55 3_160.4	160.4	5.6	2000	1.3	3500	30000	3.1	2000	0.72	3500	30000	
A 55 3_175.0	175.0	5.1	2000	1.2	3500	30000	2.9	2000	0.66	3500	30000	
A 55 3_194.2	194.2	4.6	2000	1.1	3500	30000	2.6	2000	0.59	3500	30000	
A 55 4_208.1	208.1	4.3	2000	1.0	2200	30000	2.4	2000	0.57	2200	30000	
A 55 4_262.6	262.6	3.4	2000	0.81	2200	30000	1.9	2000	0.45	2200	30000	
A 55 4_324.7	324.7	2.8	2000	0.65	2200	30000	1.5	2000	0.36	2200	30000	
A 55 4_414.0	414.0	2.2	2000	0.51	2200	30000	1.2	2000	0.28	2200	30000	
A 55 4_505.9	505.9	1.8	2000	0.42	2200	30000	1.0	2000	0.23	2200	30000	
A 55 4_542.0	542.0	1.7	2000	0.39	2200	30000	0.92	2000	0.22	2200	30000	
A 55 4_599.5	599.5	1.5	2000	0.35	2200	30000	0.83	2000	0.20	2200	30000	
A 55 4_655.1	655.1	1.4	2000	0.32	2200	30000	0.76	2000	0.18	2200	30000	
A 55 4_714.7	714.7	1.3	2000	0.30	2200	30000	0.70	2000	0.16	2200	30000	
A 55 4_793.0	793.0	1.1	2000	0.27	2200	30000	0.63	2000	0.15	2200	30000	



A 60

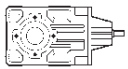
2800 Nm

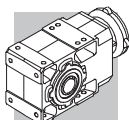
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A 60 2_10.3	10.3	271	950	29	2970	24600	136	1200	18.1	3740	30000	
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A 60 3_45.2	45.2	62	2800	20	3060	30000	31	2800	10.0	4200	30000	
A 60 3_51.3	51.3	55	2800	17.6	3030	30000	27.3	2800	8.8	4180	30000	
A 60 3_55.6	55.6	50	2800	16.2	3140	30000	25.2	2800	8.1	4280	30000	
A 60 3_65.0	65.0	43	2800	13.9	3110	30000	21.5	2800	6.9	4260	30000	
A 60 3_70.4	70.4	40	2800	12.8	3210	30000	19.9	2800	6.4	4360	30000	
A 60 3_79.7	79.7	35	2800	11.3	3160	30000	17.6	2800	5.7	4310	30000	
A 60 3_86.4	86.4	32	2800	10.4	3260	30000	16.2	2800	5.2	4410	30000	
A 60 3_99.5	99.5	28.1	2800	9.1	3210	30000	14.1	2800	4.5	4360	30000	
A 60 3_107.8	107.8	26.0	2800	8.4	3300	30000	13.0	2800	4.2	4450	30000	
A 60 3_123.0	123.0	22.8	2800	7.3	3250	30000	11.4	2800	3.7	4400	30000	
A 60 3_133.3	133.3	21.0	2800	6.8	3340	30000	10.5	2800	3.4	4490	30000	
A 60 3_144.0	144.0	19.4	2800	6.3	3280	30000	9.7	2800	3.1	4420	30000	
A 60 3_156.0	156.0	17.9	2800	5.8	3360	30000	9.0	2800	2.9	4510	30000	
A 60 3_171.5	171.5	16.3	2800	5.3	3290	30000	8.2	2800	2.6	4430	30000	
A 60 3_185.8	185.8	15.1	2800	4.9	3370	30000	7.5	2800	2.4	4520	30000	
A 60 4_208.7	208.7	13.4	2800	4.4	2720	30000	6.7	2800	2.2	3500	30000	
A 60 4_226.1	226.1	12.4	2800	4.1	2770	30000	6.2	2800	2.0	3500	30000	
A 60 4_264.3	264.3	10.6	2800	3.5	2860	30000	5.3	2800	1.7	3500	30000	
A 60 4_286.3	286.3	9.8	2800	3.2	2900	30000	4.9	2800	1.6	3500	30000	
A 60 4_324.2	324.2	8.6	2800	2.8	2960	30000	4.3	2800	1.4	3500	30000	
A 60 4_351.2	351.2	8.0	2800	2.6	2990	30000	4.0	2800	1.3	3500	30000	
A 60 4_404.7	404.7	6.9	2800	2.3	3050	30000	3.5	2800	1.1	3500	30000	
A 60 4_438.4	438.4	6.4	2800	2.1	3070	30000	3.2	2800	1.1	3500	30000	
A 60 4_500.3	500.3	5.6	2800	1.8	3110	30000	2.8	2800	0.92	3500	30000	
A 60 4_542.0	542.0	5.2	2800	1.7	3140	30000	2.6	2800	0.85	3500	30000	
A 60 4_585.8	585.8	4.8	2800	1.6	3150	30000	2.4	2800	0.79	3500	30000	
A 60 4_634.6	634.6	4.4	2800	1.5	3170	30000	2.2	2800	0.73	3500	30000	
A 60 4_697.3	697.3	4.0	2800	1.3	3190	30000	2.0	2800	0.66	3500	30000	
A 60 4_755.4	755.4	3.7	2800	1.2	3210	30000	1.9	2800	0.61	3500	30000	



A 60

2800 Nm

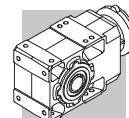
	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
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A 60 2_10.3	10.3	87	1300	12.6	4470	30000	48	1550	8.4	4700	30000	
A 60 2_12.7	12.7	71	1400	11.0	4490	30000	39	1700	7.5	4700	30000	
A 60 2_16.7	16.7	54	1450	8.7	4610	30000	29.9	1700	5.7	4700	30000	
A 60 2_20.6	20.6	44	1550	7.5	4600	30000	24.3	1800	4.9	4700	30000	
A 60 3_25.7	25.7	35	2800	11.3	4680	30000	19.4	2800	6.3	4700	30000	
A 60 3_27.9	27.9	32	2800	10.4	4700	30000	18.0	2800	5.8	4700	30000	
A 60 3_31.7	31.7	28.4	2800	9.2	4700	30000	15.8	2800	5.1	4700	30000	
A 60 3_34.3	34.3	26.2	2800	8.5	4700	30000	14.6	2800	4.7	4700	30000	
A 60 3_41.7	41.7	21.6	2800	7.0	4700	30000	12.0	2800	3.9	4700	30000	
A 60 3_45.2	45.2	19.9	2800	6.4	4700	30000	11.1	2800	3.6	4700	30000	
A 60 3_51.3	51.3	17.5	2800	5.6	4700	30000	9.7	2800	3.1	4700	30000	
A 60 3_55.6	55.6	16.2	2800	5.2	4700	30000	9.0	2800	2.9	4700	30000	
A 60 3_65.0	65.0	13.8	2800	4.5	4700	30000	7.7	2800	2.5	4700	30000	
A 60 3_70.4	70.4	12.8	2800	4.1	4700	30000	7.1	2800	2.3	4700	30000	
A 60 3_79.7	79.7	11.3	2800	3.6	4700	30000	6.3	2800	2.0	4700	30000	
A 60 3_86.4	86.4	10.4	2800	3.4	4700	30000	5.8	2800	1.9	4700	30000	
A 60 3_99.5	99.5	9.0	2800	2.9	4700	30000	5.0	2800	1.6	4700	30000	
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A 60 3_123.0	123.0	7.3	2800	2.4	4700	30000	4.1	2800	1.3	4700	30000	
A 60 3_133.3	133.3	6.8	2800	2.2	4700	30000	3.8	2800	1.2	4700	30000	
A 60 3_144.0	144.0	6.2	2800	2.0	4700	30000	3.5	2800	1.1	4700	30000	
A 60 3_156.0	156.0	5.8	2800	1.9	4700	30000	3.2	2800	1.0	4700	30000	
A 60 3_171.5	171.5	5.2	2800	1.7	4700	30000	2.9	2800	0.94	4700	30000	
A 60 3_185.8	185.8	4.8	2800	1.6	4700	30000	2.7	2800	0.87	4700	30000	
A 60 4_208.7	208.7	4.3	2800	1.4	3500	30000	2.4	2800	0.79	3500	30000	
A 60 4_226.1	226.1	4.0	2800	1.3	3500	30000	2.2	2800	0.73	3500	30000	
A 60 4_264.3	264.3	3.4	2800	1.1	3500	30000	1.9	2800	0.62	3500	30000	
A 60 4_286.3	286.3	3.1	2800	1.0	3500	30000	1.7	2800	0.58	3500	30000	
A 60 4_324.2	324.2	2.8	2800	0.91	3500	30000	1.5	2800	0.51	3500	30000	
A 60 4_351.2	351.2	2.6	2800	0.84	3500	30000	1.4	2800	0.47	3500	30000	
A 60 4_404.7	404.7	2.2	2800	0.73	3500	30000	1.2	2800	0.41	3500	30000	
A 60 4_438.4	438.4	2.1	2800	0.68	3500	30000	1.1	2800	0.38	3500	30000	
A 60 4_500.3	500.3	1.8	2800	0.59	3500	30000	1.0	2800	0.33	3500	30000	
A 60 4_542.0	542.0	1.7	2800	0.55	3500	30000	0.92	2800	0.30	3500	30000	
A 60 4_585.8	585.8	1.5	2800	0.51	3500	30000	0.85	2800	0.28	3500	30000	
A 60 4_634.6	634.6	1.4	2800	0.47	3500	30000	0.79	2800	0.26	3500	30000	
A 60 4_697.3	697.3	1.3	2800	0.43	3500	30000	0.72	2800	0.24	3500	30000	
A 60 4_755.4	755.4	1.2	2800	0.39	3500	30000	0.66	2800	0.22	3500	30000	



A 70

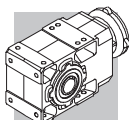
5000 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
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A 70 3_10.2	10.2	274	2400	76	2480	26400	137	3200	50	1480	31900	
A 70 3_12.1	12.1	232	2400	64	2420	28000	116	3200	43	1400	33900	
A 70 3_13.1	13.1	214	2600	64	2420	28400	107	3350	41	2100	34600	
A 70 3_15.4	15.4	182	2700	56	2100	29900	91	3350	35	2430	36700	
A 70 3_16.7	16.7	168	2850	55	2500	30400	84	3600	35	2590	37200	
A 70 3_19.7	19.7	142	2900	48	2030	32100	71	3700	30	1790	39300	
A 70 3_21.3	21.3	131	3000	45	2750	32900	66	4000	30	1830	39800	
A 70 3_23.5	23.5	119	3500	48	4930	32900	60	4300	30	6250	40500	
A 70 3_27.8	27.8	101	3450	40	4960	35100	50	4200	24	6300	43300	
A 70 3_30.1	30.1	93	3700	40	4970	35600	47	4550	24	6300	43900	
A 70 3_35.4	35.4	79	3650	33	5040	37900	40	4500	21	6370	46600	
A 70 3_38.4	38.4	73	3950	33	5040	38400	36	4850	20	6380	47300	
A 70 3_45.2	45.2	62	3900	28	5050	40800	31	4800	17.1	6400	50000	
A 70 3_49.0	49.0	57	4250	28	5050	41300	28.6	5000	16.4	6450	50000	
A 70 3_53.2	53.2	53	4100	25	5030	42900	26.3	5000	15.1	6380	50000	
A 70 3_57.7	57.7	49	4450	25	5030	43400	24.3	5000	14.0	6490	50000	
A 70 3_66.9	66.9	42	4350	21	5050	46000	20.9	5000	12.0	6480	50000	
A 70 3_72.5	72.5	39	4750	21	5040	46500	19.3	5000	11.1	6580	50000	
A 70 3_79.3	79.3	35	4600	18.7	5020	48400	17.6	5000	10.2	6520	50000	
A 70 3_85.9	85.9	33	4950	18.6	5030	49100	16.3	5000	9.4	6620	50000	
A 70 3_96.2	96.2	29.1	4850	16.2	5000	50000	14.6	5000	8.4	6570	50000	
A 70 3_104.2	104.2	26.9	5000	15.5	5060	50000	13.4	5000	7.7	6660	50000	
A 70 3_120.6	120.6	23.2	5000	13.4	5010	50000	11.6	5000	6.7	6610	50000	
A 70 3_130.7	130.7	21.4	5000	12.3	5100	50000	10.7	5000	6.2	6690	50000	
A 70 3_141.9	141.9	19.7	5000	11.4	5040	50000	9.9	5000	5.7	6640	50000	
A 70 3_153.7	153.7	18.2	3300	6.9	5410	50000	9.1	4050	4.2	6920	50000	
A 70 4_169.8	169.8	16.5	5000	9.7	1130	50000	8.2	5000	4.9	2520	50000	
A 70 4_183.9	183.9	15.2	5000	9.0	1450	50000	7.6	5000	4.5	2670	50000	
A 70 4_220.3	220.3	12.7	5000	7.5	1560	50000	6.4	5000	3.7	2710	50000	
A 70 4_238.6	238.6	11.7	5000	6.9	1860	50000	5.9	5000	3.5	2770	50000	
A 70 4_292.0	292.0	9.6	5000	5.6	1900	50000	4.8	5000	2.8	2790	50000	
A 70 4_316.4	316.4	8.9	5000	5.2	2110	50000	4.4	5000	2.6	2850	50000	
A 70 4_369.4	369.4	7.6	5000	4.5	2110	50000	3.8	5000	2.2	2840	50000	
A 70 4_400.2	400.2	7.0	5000	4.1	2160	50000	3.5	5000	2.1	2900	50000	
A 70 4_475.8	475.8	5.9	5000	3.5	2150	50000	2.9	5000	1.7	2890	50000	
A 70 4_515.4	515.4	5.4	5000	3.2	2200	50000	2.7	5000	1.6	2940	50000	
A 70 4_595.0	595.0	4.7	5000	2.8	2190	50000	2.4	5000	1.4	2920	50000	
A 70 4_644.6	644.6	4.3	5000	2.6	2230	50000	2.2	5000	1.3	2970	50000	
A 70 4_705.1	705.1	4.0	5000	2.3	2200	50000	2.0	5000	1.2	2940	50000	
A 70 4_763.9	763.9	3.7	5000	2.2	2250	50000	1.8	5000	1.1	2990	50000	
A 70 4_855.3	855.3	3.3	5000	1.9	2220	50000	1.6	5000	0.96	2960	50000	
A 70 4_926.5	926.5	3.0	5000	1.8	2270	50000	1.5	5000	0.89	3000	50000	
A 70 4_1072	1072	2.6	5000	1.5	2240	50000	1.3	5000	0.77	2970	50000	
A 70 4_1161	1161	2.4	5000	1.4	2280	50000	1.2	5000	0.71	3020	50000	
A 70 4_1242	1242	2.3	5000	1.3	2250	50000	1.1	5000	0.66	2980	50000	
A 70 4_1346	1346	2.1	5000	1.2	2290	50000	1.0	5000	0.61	3030	50000	
A 70 4_1583	1583	1.8	5000	1.0	2260	50000	0.88	5000	0.52	2990	50000	
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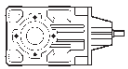
A 70 5000 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
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A 70 3_10.2	10.2	88	3250	33	4290	37400	49	3250	18.3	7000	46100	
A 70 3_12.1	12.1	75	3650	31	1620	38700	41	3650	17.4	6470	47900	
A 70 3_13.1	13.1	69	3950	31	1650	39200	38	3950	17.4	6500	48600	
A 70 3_15.4	15.4	58	3700	25	3510	42200	32	3700	13.8	7000	50000	
A 70 3_16.7	16.7	54	4000	25	3560	42800	30	4000	13.8	7000	50000	
A 70 3_19.7	19.7	46	3700	19.5	4910	46100	25.4	3700	10.8	7000	50000	
A 70 3_21.3	21.3	42	4000	19.4	4950	46800	23.5	4000	10.8	7000	50000	
A 70 3_23.5	23.5	38	4900	21.6	7000	46300	21.3	5000	12.2	7000	50000	
A 70 3_27.8	27.8	32	4800	17.9	7000	49400	18.0	5000	10.4	7000	50000	
A 70 3_30.1	30.1	29.9	5000	17.2	7000	50000	16.6	5000	9.6	7000	50000	
A 70 3_35.4	35.4	25.4	5000	14.6	7000	50000	14.1	5000	8.1	7000	50000	
A 70 3_38.4	38.4	23.4	5000	13.5	7000	50000	13.0	5000	7.5	7000	50000	
A 70 3_45.2	45.2	19.9	5000	11.4	7000	50000	11.1	5000	6.4	7000	50000	
A 70 3_49.0	49.0	18.4	5000	10.6	7000	50000	10.2	5000	5.9	7000	50000	
A 70 3_53.2	53.2	16.9	5000	9.7	7000	50000	9.4	5000	5.4	7000	50000	
A 70 3_57.7	57.7	15.6	5000	9.0	7000	50000	8.7	5000	5.0	7000	50000	
A 70 3_66.9	66.9	13.4	5000	7.7	7000	50000	7.5	5000	4.3	7000	50000	
A 70 3_72.5	72.5	12.4	5000	7.1	7000	50000	6.9	5000	4.0	7000	50000	
A 70 3_79.3	79.3	11.3	5000	6.5	7000	50000	6.3	5000	3.6	7000	50000	
A 70 3_85.9	85.9	10.5	5000	6.0	7000	50000	5.8	5000	3.3	7000	50000	
A 70 3_96.2	96.2	9.4	5000	5.4	7000	50000	5.2	5000	3.0	7000	50000	
A 70 3_104.2	104.2	8.6	5000	5.0	7000	50000	4.8	5000	2.8	7000	50000	
A 70 3_120.6	120.6	7.5	5000	4.3	7000	50000	4.1	5000	2.4	7000	50000	
A 70 3_130.7	130.7	6.9	5000	4.0	7000	50000	3.8	5000	2.2	7000	50000	
A 70 3_141.9	141.9	6.3	5000	3.7	7000	50000	3.5	5000	2.0	7000	50000	
A 70 3_153.7	153.7	5.9	4600	3.1	7000	50000	3.3	5000	1.9	7000	50000	
A 70 4_169.8	169.8	5.3	5000	3.1	3170	50000	2.9	5000	1.7	3500	50000	
A 70 4_183.9	183.9	4.9	5000	2.9	3240	50000	2.7	5000	1.6	3500	50000	
A 70 4_220.3	220.3	4.1	5000	2.4	3270	50000	2.3	5000	1.3	3500	50000	
A 70 4_238.6	238.6	3.8	5000	2.2	3340	50000	2.1	5000	1.2	3500	50000	
A 70 4_292.0	292.0	3.1	5000	1.8	3350	50000	1.7	5000	1.0	3500	50000	
A 70 4_316.4	316.4	2.8	5000	1.7	3410	50000	1.6	5000	0.93	3500	50000	
A 70 4_369.4	369.4	2.4	5000	1.4	3410	50000	1.4	5000	0.80	3500	50000	
A 70 4_400.2	400.2	2.2	5000	1.3	3460	50000	1.2	5000	0.74	3500	50000	
A 70 4_475.8	475.8	1.9	5000	1.1	3450	50000	1.1	5000	0.62	3500	50000	
A 70 4_515.4	515.4	1.7	5000	1.0	3500	50000	0.97	5000	0.57	3500	50000	
A 70 4_595.0	595.0	1.5	5000	0.89	3480	50000	0.84	5000	0.49	3500	50000	
A 70 4_644.6	644.6	1.4	5000	0.82	3500	50000	0.78	5000	0.46	3500	50000	
A 70 4_705.1	705.1	1.3	5000	0.75	3500	50000	0.71	5000	0.42	3500	50000	
A 70 4_763.9	763.9	1.2	5000	0.69	3500	50000	0.65	5000	0.39	3500	50000	
A 70 4_855.3	855.3	1.1	5000	0.62	3500	50000	0.58	5000	0.34	3500	50000	
A 70 4_926.5	926.5	0.97	5000	0.57	3500	50000	0.54	5000	0.32	3500	50000	
A 70 4_1072	1072	0.84	5000	0.49	3500	50000	0.47	5000	0.27	3500	50000	
A 70 4_1161	1161	0.77	5000	0.46	3500	50000	0.43	5000	0.25	3500	50000	
A 70 4_1242	1242	0.72	5000	0.43	3500	50000	0.40	5000	0.24	3500	50000	
A 70 4_1346	1346	0.67	5000	0.39	3500	50000	0.37	5000	0.22	3500	50000	
A 70 4_1583	1583	0.57	5000	0.33	3500	50000	0.32	5000	0.19	3500	50000	
A 70 4_1715	1715	0.52	5000	0.31	3500	50000	0.29	5000	0.17	3500	50000	

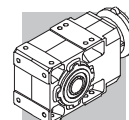


A 80

8000 Nm

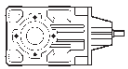
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
A 80 3_9.8	9.8	285	3100	102	—	26300	142	3900	64	—	32100	316
A 80 3_10.7	10.7	263	3450	104	—	26300	131	4300	65	—	32300	
A 80 3_12.3	12.3	228	3450	91	—	27700	114	4300	56	—	34000	
A 80 3_13.3	13.3	211	3450	84	1150	28700	105	4300	52	1150	35200	
A 80 3_15.5	15.5	181	3300	69	1560	30600	91	4100	43	1730	37600	
A 80 3_16.7	16.7	167	3600	69	1440	30900	84	4500	43	1460	37900	
A 80 3_19.3	19.3	145	3500	58	1870	32800	72	4400	37	1880	40200	
A 80 3_20.9	20.9	134	3840	59	1670	33100	67	4800	37	1740	40600	
A 80 3_22.6	22.6	124	5050	72	4500	31200	62	6250	45	5830	38400	
A 80 3_24.5	24.5	114	5500	72	4470	31300	57	6750	44	5840	38600	
A 80 3_28.2	28.2	99	5350	61	4700	33500	50	6600	38	5960	41200	
A 80 3_30.6	30.6	92	5250	55	4840	34900	46	6450	34	6140	43000	
A 80 3_35.5	35.5	79	5700	52	4700	36000	39	7000	32	6000	44300	
A 80 3_38.5	38.5	73	6150	51	4720	36200	36	7600	32	6000	44500	
A 80 3_44.5	44.5	63	6050	44	4790	38600	31	7450	27	6070	47500	
A 80 3_48.2	48.2	58	6550	44	4790	38800	29.1	8000	27	6090	47900	
A 80 3_55.2	55.2	51	6400	37	4710	41300	25.4	7900	23	6050	50800	
A 80 3_59.8	59.8	47	6950	37	4690	41500	23.4	8000	22	6170	52300	
A 80 3_66.8	66.8	42	6800	33	4670	43700	21.0	8000	19.3	6150	54600	
A 80 3_72.4	72.4	39	7350	33	4680	44000	19.3	8000	17.8	6280	56500	
A 80 3_82.3	82.3	34	7200	28	4570	46600	17.0	8000	15.7	6230	59300	
A 80 3_89.2	89.2	31	7800	28	4570	46900	15.7	8000	14.5	6350	61400	
A 80 3_96.0	96.0	29.2	7500	25	4410	48900	14.6	8000	13.4	6260	63000	
A 80 3_104.0	104.0	26.9	8000	25	4500	49500	13.5	8000	12.4	6380	65000	
A 80 3_116.0	116.0	24.1	7950	22	4230	51700	12.1	8000	11.1	6300	65000	
A 80 3_125.6	125.6	22.3	8000	21	4630	53400	11.1	8000	10.3	6420	65000	
A 80 3_144.7	144.7	19.3	8000	17.8	4320	56400	9.7	8000	8.9	6350	65000	
A 80 3_156.8	156.8	17.9	8000	16.4	4750	58300	8.9	8000	8.2	6460	65000	
A 80 4_171.3	171.3	16.3	8000	15.4	—	65000	8.2	8000	7.7	1230	65000	
A 80 4_214.7	214.7	13.0	8000	12.3	—	65000	6.5	8000	6.1	1400	65000	
A 80 4_232.6	232.6	12.0	8000	11.3	—	65000	6.0	8000	5.7	1810	65000	
A 80 4_277.3	277.3	10.1	8000	9.5	540	65000	5.0	8000	4.8	1930	65000	
A 80 4_300.4	300.4	9.3	8000	8.8	900	65000	4.7	8000	4.4	2290	65000	
A 80 4_354.0	354.0	7.9	8000	7.4	800	65000	4.0	8000	3.7	2190	65000	
A 80 4_383.5	383.5	7.3	8000	6.9	1140	65000	3.7	8000	3.4	2530	65000	
A 80 4_442.1	442.1	6.3	8000	6.0	1040	65000	3.2	8000	3.0	2430	65000	
A 80 4_478.9	478.9	5.8	8000	5.5	1370	65000	2.9	8000	2.8	2670	65000	
A 80 4_560.5	560.5	5.0	8000	4.7	1240	65000	2.5	8000	2.4	2630	65000	
A 80 4_607.2	607.2	4.6	8000	4.3	1550	65000	2.3	8000	2.2	2720	65000	
A 80 4_703.5	703.5	4.0	8000	3.7	1440	65000	2.0	8000	1.9	2690	65000	
A 80 4_762.1	762.1	3.7	8000	3.5	1730	65000	1.8	8000	1.7	2760	65000	
A 80 4_829.5	829.5	3.4	8000	3.2	1530	65000	1.7	8000	1.6	2720	65000	
A 80 4_898.7	898.7	3.1	8000	2.9	1820	65000	1.6	8000	1.5	2780	65000	
A 80 4_1001	1001	2.8	8000	2.6	1620	65000	1.4	8000	1.3	2740	65000	
A 80 4_1085	1085	2.6	8000	2.4	1900	65000	1.3	8000	1.2	2800	65000	
A 80 4_1237	1237	2.3	8000	2.1	1660	65000	1.1	8000	1.1	2750	65000	
A 80 4_1340	1340	2.1	8000	2.0	1940	65000	1.0	8000	0.98	2810	65000	
A 80 4_1438	1438	1.9	8000	1.8	1730	65000	0.97	8000	0.92	2770	65000	
A 80 4_1558	1558	1.8	8000	1.7	2000	65000	0.90	8000	0.85	2830	65000	

(—) Contatar con nuestro Servicio Técnico comunicando los datos relativos a la carga radial (sentido de giro, orientación, posición)

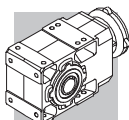


A 80

8000 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
A 80 3_9.8	9.8	92	4450	47	—	36700	51	5300	31	—	43800	316
A 80 3_10.7	10.7	84	4900	48	—	36900	47	5850	32	—	44000	
A 80 3_12.3	12.3	73	4900	41	—	38900	41	5850	27	—	46400	
A 80 3_13.3	13.3	68	4900	38	1360	40200	38	5850	25	1600	47900	
A 80 3_15.5	15.5	58	4650	31	2130	43000	32	5550	21	2530	51300	
A 80 3_16.7	16.7	54	5100	32	1840	43400	29.9	6100	21	2120	51700	
A 80 3_19.3	19.3	47	5000	27	2260	46000	25.9	6000	17.9	2530	54800	
A 80 3_20.9	20.9	43	5470	27	2030	46400	23.9	6500	17.9	2530	55400	
A 80 3_22.6	22.6	40	7100	33	6810	43900	22.1	8000	20.4	7000	53400	
A 80 3_24.5	24.5	37	7700	33	6800	44100	20.4	8000	18.8	7000	55300	
A 80 3_28.2	28.2	32	7550	28	6940	47000	17.7	8000	16.3	7000	58400	
A 80 3_30.6	30.6	29.4	7400	25	7000	49000	16.4	8000	15.1	7000	60400	
A 80 3_35.5	35.5	25.3	8000	23	6980	50600	14.1	8000	13.0	7000	63900	
A 80 3_38.5	38.5	23.4	8000	22	7000	52400	13.0	8000	12.0	7000	65000	
A 80 3_44.5	44.5	20.2	8000	18.6	7000	55400	11.2	8000	10.3	7000	65000	
A 80 3_48.2	48.2	18.7	8000	17.2	7000	57300	10.4	8000	9.6	7000	65000	
A 80 3_55.2	55.2	16.3	8000	15.0	7000	60300	9.1	8000	8.3	7000	65000	
A 80 3_59.8	59.8	15.1	8000	13.9	7000	62300	8.4	8000	7.7	7000	65000	
A 80 3_66.8	66.8	13.5	8000	12.4	7000	65000	7.5	8000	6.9	7000	65000	
A 80 3_72.4	72.4	12.4	8000	11.4	7000	65000	6.9	8000	6.4	7000	65000	
A 80 3_82.3	82.3	10.9	8000	10.1	7000	65000	6.1	8000	5.6	7000	65000	
A 80 3_89.2	89.2	10.1	8000	9.3	7000	65000	5.6	8000	5.2	7000	65000	
A 80 3_96.0	96.0	9.4	8000	8.6	7000	65000	5.2	8000	4.8	7000	65000	
A 80 3_104.0	104.0	8.7	8000	8.0	7000	65000	4.8	8000	4.4	7000	65000	
A 80 3_116.0	116.0	7.8	8000	7.1	7000	65000	4.3	8000	4.0	7000	65000	
A 80 3_125.6	125.6	7.2	8000	6.6	7000	65000	4.0	8000	3.7	7000	65000	
A 80 3_144.7	144.7	6.2	8000	5.7	7000	65000	3.5	8000	3.2	7000	65000	
A 80 3_156.8	156.8	5.7	8000	5.3	7000	65000	3.2	8000	2.9	7000	65000	
A 80 4_171.3	171.3	5.3	8000	4.9	2300	65000	2.9	8000	2.7	3500	65000	
A 80 4_214.7	214.7	4.2	8000	3.9	2470	65000	2.3	8000	2.2	3500	65000	
A 80 4_232.6	232.6	3.9	8000	3.6	2870	65000	2.1	8000	2.0	3500	65000	
A 80 4_277.3	277.3	3.2	8000	3.1	3000	65000	1.8	8000	1.7	3500	65000	
A 80 4_300.4	300.4	3.0	8000	2.8	3120	65000	1.7	8000	1.6	3500	65000	
A 80 4_354.0	354.0	2.5	8000	2.4	3100	65000	1.4	8000	1.3	3500	65000	
A 80 4_383.5	383.5	2.3	8000	2.2	3180	65000	1.3	8000	1.2	3500	65000	
A 80 4_442.1	442.1	2.0	8000	1.9	3160	65000	1.1	8000	1.1	3500	65000	
A 80 4_478.9	478.9	1.9	8000	1.8	3230	65000	1.0	8000	0.98	3500	65000	
A 80 4_560.5	560.5	1.6	8000	1.5	3210	65000	0.89	8000	0.84	3500	65000	
A 80 4_607.2	607.2	1.5	8000	1.4	3280	65000	0.82	8000	0.78	3500	65000	
A 80 4_703.5	703.5	1.3	8000	1.2	3260	65000	0.71	8000	0.67	3500	65000	
A 80 4_762.1	762.1	1.2	8000	1.1	3320	65000	0.66	8000	0.62	3500	65000	
A 80 4_829.5	829.5	1.1	8000	1.0	3280	65000	0.60	8000	0.57	3500	65000	
A 80 4_898.7	898.7	1.0	8000	0.94	3340	65000	0.56	8000	0.52	3500	65000	
A 80 4_1001	1001	0.90	8000	0.85	3300	65000	0.50	8000	0.47	3500	65000	
A 80 4_1085	1085	0.83	8000	0.78	3360	65000	0.46	8000	0.43	3500	65000	
A 80 4_1237	1237	0.73	8000	0.68	3310	65000	0.40	8000	0.38	3500	65000	
A 80 4_1340	1340	0.67	8000	0.63	3370	65000	0.37	8000	0.35	3500	65000	
A 80 4_1438	1438	0.63	8000	0.59	3330	65000	0.35	8000	0.33	3500	65000	
A 80 4_1558	1558	0.58	8000	0.54	3390	65000	0.32	8000	0.30	3500	65000	

(—) Contatar con nuestro Servicio Técnico comunicando los datos relativos a la carga radial (sentido de giro, orientación, posición)

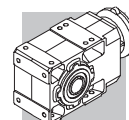


A 90

14000 Nm

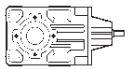
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
A 90 3_9.7	9.7	289	7800	260	2440	27600	145	9050	151	5520	35000	319
A 90 3_10.5	10.5	267	8350	257	2620	27700	134	9800	151	5530	34900	
A 90 3_12.6	12.6	221	8500	217	2700	29800	111	10450	133	4790	36700	
A 90 3_13.7	13.7	204	8050	189	4670	31800	102	11150	131	5060	36900	
A 90 3_15.6	15.6	180	8900	184	3240	32000	90	10950	113	5410	39400	
A 90 3_16.9	16.9	166	9650	184	3230	31900	83	11850	113	5440	39300	
A 90 3_19.4	19.4	144	9400	156	3160	34300	72	11550	96	5350	42300	
A 90 3_21.0	21.0	133	10150	156	3210	34300	67	12400	95	5510	42400	
A 90 3_22.3	22.3	126	9850	143	9660	35700	63	12150	88	12200	43900	
A 90 3_24.1	24.1	116	10700	143	9660	35500	58	13150	88	12200	43800	
A 90 3_29.1	29.1	96	10550	117	9800	38900	48	13000	72	12400	47900	
A 90 3_31.5	31.5	89	11450	117	9800	38800	44	14000	72	12400	47900	
A 90 3_35.8	35.8	78	11150	100	9910	41600	39	13750	62	12500	51100	
A 90 3_38.8	38.8	72	12100	100	9900	41500	36	14000	58	12700	52700	
A 90 3_44.6	44.6	63	11800	85	9920	44600	31	14000	51	12700	56000	
A 90 3_48.3	48.3	58	12800	85	9920	44500	29.0	14000	47	12800	58000	
A 90 3_55.0	55.0	51	12550	73	9960	47500	25.4	14000	41	12800	61400	
A 90 3_59.6	59.6	47	13550	73	9970	47500	23.5	14000	38	13000	63500	
A 90 3_68.8	68.8	41	13350	63	9960	50900	20.4	14000	33	13000	67400	
A 90 3_74.5	74.5	38	14000	61	10000	51700	18.8	14000	30	13100	69700	
A 90 3_80.4	80.4	35	13900	56	9920	53500	17.4	14000	28	13000	71900	
A 90 3_87.1	87.1	32	14000	52	10100	55500	16.1	14000	26	13200	74300	
A 90 3_98.6	98.6	28.4	14000	46	9990	58500	14.2	14000	23	13100	75000	
A 90 3_106.8	106.8	26.2	14000	42	10100	60600	13.1	14000	21	13300	75000	
A 90 3_116.9	116.9	24.0	14000	39	10100	63000	12.0	14000	19.3	13200	75000	
A 90 3_126.6	126.6	22.1	10650	27	10600	71400	11.1	13150	16.7	13400	75000	
A 90 3_139.4	139.4	20.1	10350	24	10600	74500	10.0	12750	14.7	13400	75000	
A 90 3_151.0	151.0	18.5	11200	24	10600	75000	9.3	13800	14.7	13400	75000	
A 90 4_166.1	166.1	16.9	14000	28	—	75000	8.4	14000	13.9	—	75000	
A 90 4_180.0	180.0	15.6	14000	26	—	75000	7.8	14000	12.8	—	75000	
A 90 4_209.0	209.0	13.4	14000	22	—	75000	6.7	14000	11.0	—	75000	
A 90 4_226.4	226.4	12.4	14000	20	—	75000	6.2	14000	10.2	—	75000	
A 90 4_281.4	281.4	9.9	14000	16.4	—	75000	5.0	14000	8.2	—	75000	
A 90 4_304.9	304.9	9.2	14000	15.1	—	75000	4.6	14000	7.6	—	75000	
A 90 4_355.8	355.8	7.9	14000	13.0	—	75000	3.9	14000	6.5	—	75000	
A 90 4_385.4	385.4	7.3	14000	12.0	—	75000	3.6	14000	6.0	680	75000	
A 90 4_449.2	449.2	6.2	14000	10.3	—	75000	3.1	14000	5.1	—	75000	
A 90 4_486.6	486.6	5.8	14000	9.5	—	75000	2.9	14000	4.7	950	75000	
A 90 4_555.3	555.3	5.0	14000	8.3	—	75000	2.5	14000	4.2	740	75000	
A 90 4_601.6	601.6	4.7	14000	7.7	—	75000	2.3	14000	3.8	1200	75000	
A 90 4_707.9	707.9	4.0	14000	6.5	—	75000	2.0	14000	3.3	1050	75000	
A 90 4_766.9	766.9	3.7	14000	6.0	—	75000	1.8	14000	3.0	1490	75000	
A 90 4_865.1	865.1	3.2	14000	5.3	—	75000	1.6	14000	2.7	1170	75000	
A 90 4_937.2	937.2	3.0	14000	4.9	—	75000	1.5	14000	2.5	1590	75000	
A 90 4_1025	1025	2.7	14000	4.5	—	75000	1.4	14000	2.2	1330	75000	
A 90 4_1111	1111	2.5	14000	4.2	—	75000	1.3	14000	2.1	1740	75000	
A 90 4_1222	1222	2.3	14000	3.8	—	75000	1.1	14000	1.9	1380	75000	
A 90 4_1324	1324	2.1	14000	3.5	—	75000	1.1	14000	1.7	1790	75000	
A 90 4_1507	1507	1.9	14000	3.1	—	75000	0.93	14000	1.5	1440	75000	
A 90 4_1632	1632	1.7	14000	2.8	—	75000	0.86	14000	1.4	1840	75000	

(—) Contatar con nuestro Servicio Técnico comunicando los datos relativos a la carga radial (sentido de giro, orientación, posición)

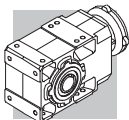


A 90

14000 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
A 90 3_9.7	9.7	93	9050	97	9800	42300	52	9050	54	15000	53700	319
A 90 3_10.5	10.5	86	9800	97	9810	42500	48	9800	54	15000	54200	
A 90 3_12.6	12.6	71	11800	97	6720	42100	40	11800	54	13500	54500	
A 90 3_13.7	13.7	66	12750	96	6770	42100	37	12800	54	13500	54600	
A 90 3_15.6	15.6	58	11550	77	8730	46700	32	11550	43	15000	59900	
A 90 3_16.9	16.9	53	12500	77	8750	46800	29.6	12500	43	15000	60300	
A 90 3_19.4	19.4	46	11550	62	9630	51400	25.8	11550	34	15000	65400	
A 90 3_21.0	21.0	43	12400	61	9790	51700	23.8	12400	34	15000	66100	
A 90 3_22.3	22.3	40	13850	64	14200	50200	22.5	14000	36	15000	64700	
A 90 3_24.1	24.1	37	14000	60	14400	51900	20.7	14000	33	15000	66900	
A 90 3_29.1	29.1	31	14000	50	14600	56200	17.2	14000	28	15000	72100	
A 90 3_31.5	31.5	28.6	14000	46	14800	58400	15.9	14000	26	15000	74700	
A 90 3_35.8	35.8	25.1	14000	40	14900	61700	14.0	14000	23	15000	75000	
A 90 3_38.8	38.8	23.2	14000	37	15000	63900	12.9	14000	21	15000	75000	
A 90 3_44.6	44.6	20.2	14000	33	15000	67700	11.2	14000	18.1	15000	75000	
A 90 3_48.3	48.3	18.6	14000	30	15000	70000	10.4	14000	16.7	15000	75000	
A 90 3_55.0	55.0	16.4	14000	26	15000	73800	9.1	14000	14.6	15000	75000	
A 90 3_59.6	59.6	15.1	14000	24	15000	75000	8.4	14000	13.5	15000	75000	
A 90 3_68.8	68.8	13.1	14000	21	15000	75000	7.3	14000	11.7	15000	75000	
A 90 3_74.5	74.5	12.1	14000	19.5	15000	75000	6.7	14000	10.8	15000	75000	
A 90 3_80.4	80.4	11.2	14000	18.0	15000	75000	6.2	14000	10.0	15000	75000	
A 90 3_87.1	87.1	10.3	14000	16.7	15000	75000	5.7	14000	9.3	15000	75000	
A 90 3_98.6	98.6	9.1	14000	14.7	15000	75000	5.1	14000	8.2	15000	75000	
A 90 3_106.8	106.8	8.4	14000	13.6	15000	75000	4.7	14000	7.5	15000	75000	
A 90 3_116.9	116.9	7.7	14000	12.4	15000	75000	4.3	14000	6.9	15000	75000	
A 90 3_126.6	126.6	7.1	14000	11.4	15000	75000	3.9	14000	6.4	15000	75000	
A 90 3_139.4	139.4	6.5	14000	10.4	15000	75000	3.6	14000	5.8	15000	75000	
A 90 3_151.0	151.0	6.0	14000	9.6	15000	75000	3.3	14000	5.3	15000	75000	
A 90 4_166.1	166.1	5.4	14000	8.9	—	75000	3.0	14000	5.0	700	75000	
A 90 4_180.0	180.0	5.0	14000	8.2	—	75000	2.8	14000	4.6	1400	75000	
A 90 4_209.0	209.0	4.3	14000	7.1	—	75000	2.4	14000	3.9	1500	75000	
A 90 4_226.4	226.4	4.0	14000	6.5	500	75000	2.2	14000	3.6	2100	75000	
A 90 4_281.4	281.4	3.2	14000	5.3	690	75000	1.8	14000	2.9	2300	75000	
A 90 4_304.9	304.9	3.0	14000	4.9	1230	75000	1.6	14000	2.7	2900	75000	
A 90 4_355.8	355.8	2.5	14000	4.2	1240	75000	1.4	14000	2.3	2900	75000	
A 90 4_385.4	385.4	2.3	14000	3.8	1750	75000	1.3	14000	2.1	3400	75000	
A 90 4_449.2	449.2	2.0	14000	3.3	1540	75000	1.1	14000	1.8	3200	75000	
A 90 4_486.6	486.6	1.8	14000	3.0	2020	75000	1.0	14000	1.7	3500	75000	
A 90 4_555.3	555.3	1.6	14000	2.7	1810	75000	0.90	14000	1.5	3500	75000	
A 90 4_601.6	601.6	1.5	14000	2.5	2270	75000	0.83	14000	1.4	3500	75000	
A 90 4_707.9	707.9	1.3	14000	2.1	2120	75000	0.71	14000	1.2	3500	75000	
A 90 4_766.9	766.9	1.2	14000	1.9	2560	75000	0.65	14000	1.1	3500	75000	
A 90 4_865.1	865.1	1.0	14000	1.7	2240	75000	0.58	14000	0.95	3500	75000	
A 90 4_937.2	937.2	0.96	14000	1.6	2660	75000	0.53	14000	0.88	3500	75000	
A 90 4_1025	1025	0.88	14000	1.4	2400	75000	0.49	14000	0.80	3500	75000	
A 90 4_1111	1111	0.81	14000	1.3	2810	75000	0.45	14000	0.74	3500	75000	
A 90 4_1222	1222	0.74	14000	1.2	2450	75000	0.41	14000	0.67	3500	75000	
A 90 4_1324	1324	0.68	14000	1.1	2860	75000	0.38	14000	0.62	3500	75000	
A 90 4_1507	1507	0.60	14000	0.98	2410	75000	0.33	14000	0.55	3500	75000	
A 90 4_1632	1632	0.55	14000	0.91	2910	75000	0.31	14000	0.50	3500	75000	

(—) Contatar con nuestro Servicio Técnico comunicando los datos relativos a la carga radial (sentido de giro, orientación, posición)



40 PREDISPOSICIONES POSIBLES

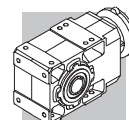
En las siguientes tablas se especifican los montajes posibles de motores en términos puramente geométricos.

La selección del motorreductor debe efectuarse siguiendo las instrucciones especificadas en el párrafo 12, respetando particularmente la condición $S \geq f_s$.

(C 40)

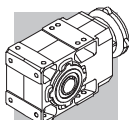
		IEC_  (IM B5)											
		BN										IEC	
P _{n1} (#) [kW]	2p	0.37	0.75	1.5	2.2	4	4	9.2	18.5	22	30	45	55
	4p	0.25	0.55	1.1	1.85	3	4	9.2	15	22	30	45	55
	6p	0.12	0.37	0.75	1.1	1.85	2.2	5.5	11	15	18.5	30	37
		P63	P71	P80	P90	P100	P112	P132	P160	P180	P200	P225	P250
A 05 2	i =	5.5_91.6	5.5_51.3	5.5_51.3									
A 10 2		5.5_91.6	5.5_91.6	5.5_65.9	5.5_65.9	5.5_65.9	5.5_65.9						
A 20 2		7.3_92.3 ⚙(10.3)	7.3_92.3 ⚙(10.3)	5.4_79.9	5.4_79.9	5.4_79.9	5.4_79.9						
A 20 3		109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9						
A 30 2		9.3_97.5 ⚙(10.5; 13.6_16.3)	9.3_97.5 ⚙(10.5; 13.6_16.3)	5.4_97.5	5.4_97.5	5.4_97.5	5.4_97.5						
A 30 3		109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8						
A 35 2		9.3_95.6 ⚙(13.1_20.4)	9.3_95.6 ⚙(13.1_20.4)	5.4_95.6	5.4_95.6	5.4_95.6	5.4_95.6	5.4_11.8					
A 35 3		105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2						
A 41 2		11.7_79.2 ⚙(13.8_17.8)	11.7_79.2 ⚙(13.8_17.8)	5.2_79.2	5.2_79.2	5.2_79.2	5.2_79.2	5.2_45.1					
A 41 3		92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8						
A 50 2		20.9	20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9			
A 50 3		51.7_190.6	51.7_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_109.4	24.0_109.4	24.0_109.4			
A 50 4		211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2						
A 55 2				13.1_19.2	13.1_19.2	13.1_19.2	13.1_19.2	4.9_19.2	4.9_19.2	4.9_19.2			
A 55 3		64.3_194.2	64.3_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_123.9	23.8_123.9	23.8_123.9			
A 55 4		208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0						
A 60 2				10.3_20.6	10.3_20.6	10.3_20.6	10.3_20.6	7.9_20.6	7.9_20.6	7.9_20.6			
A 60 3		65.0_185.8	65.0_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_133.3	25.7_133.3	25.7_133.3			
A 60 4		208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4						
A 70 3				66.9_153.7	66.9_153.7	66.9_153.7	66.9_153.7	15.4_153.7 ⚙(23.5_30.1)	9.4_153.7	9.4_153.7	9.4_38.4 ⚙(19.7_21.3)		
A 70 4		292.0_1715	292.0_1715	169.8_1715	169.8_1715	169.8_1715	169.8_1715	169.8_644.6					
A 80 3				82.3_156.8	82.3_156.8	82.3_156.8	82.3_156.8	19.3_156.8 ⚙(22.6_38.5)	12.3_156.8 ⚙(22.6_24.5)	9.8_156.8	9.8_104.0	9.8_104.0	
A 80 4		354.0_1558	354.0_1558	171.3_1558	171.3_1558	171.3_1558	171.3_1558	171.3_762.1					
A 90 3				98.6_151.0	98.6_151.0	98.6_151.0	98.6_151.0	55.0_151.0	19.4_151.0 ⚙(22.3_38.8)	9.7_151.0	9.7_126.6	9.7_126.6	9.7_126.6
A 90 4		449.2_1632	449.2_1632	166.1_1632	166.1_1632	166.1_1632	166.1_1632	166.1_937.2	166.1_937.2	166.1_937.2			

(#) P_{n1} = Máxima potencia instalable en la entrada P₋



(C 41)

							
		M05	M1	M2	M3	M4	M5
A 05 2	i =	5.5_91.6	5.5_51.3	5.5_65.9			
A 10 2		5.5_91.6	5.5_51.3	5.5_65.9	5.5_65.9		
A 20 2		7.3_92.3 ⊖ (10.3)	7.3_63.1 ⊖ (10.3)	5.4_79.9	5.4_79.9		
A 20 3		109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9		
A 30 2			9.3_76.5 ⊖ (10.5 ; 13.6_16.3)	5.4_97.5	5.4_97.5		
A 30 3		109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8		
A 35 2			9.3_95.6 ⊖ (13.1_20.4)	5.4_95.6	5.4_95.6	5.4_11.8	
A 35 3		105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2		
A 41 2			11.7_79.2 ⊖ (13.8_17.8)	5.2_79.2	5.2_79.2	5.2_45.1	
A 41 3		92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8		
A 50 2			20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9
A 50 3			51.7_190.6	24.0_190.6	24.0_190.6	24.0_109.4	24.0_109.4
A 50 4			211.0_778.2	211.0_778.2	211.0_778.2		
A 55 2				13.1_19.2	13.1_19.2	4.9_19.2	4.9_19.2
A 55 3			64.3_194.2	23.8_194.2	23.8_194.2	23.8_123.9	23.8_123.9
A 55 4			208.1_793.0	208.1_793.0	208.1_793.0		
A 60 2				10.3_20.6	10.3_20.6	7.9_20.6	7.9_20.6
A 60 3				25.7_185.8	25.7_185.8	25.7_133.3	25.7_133.3
A 60 4			208.7_755.4	208.7_755.4	208.7_755.4		
A 70 3				66.9_153.7	66.9_153.7	15.4_153.7 ⊖ (23.5_30.1)	15.4_153.7 ⊖ (23.5_30.1)
A 70 4		292.0_1715	169.8_1715	169.8_1715	169.8_644.6		
A 80 3				82.3_156.8 ⊖ (22.6_38.5)	19.3_156.8 ⊖ (22.6_38.5)	19.3_156.8 ⊖ (22.6_38.5)	
A 80 4		354.0_1558	171.3_1558	171.3_1558	171.3_762.1		
A 90 3				98.6_151.0	55.0_151.0	55.0_151.0	
A 90 4		449.2_1632	166.1_1632	166.1_1632	166.1_937.2		



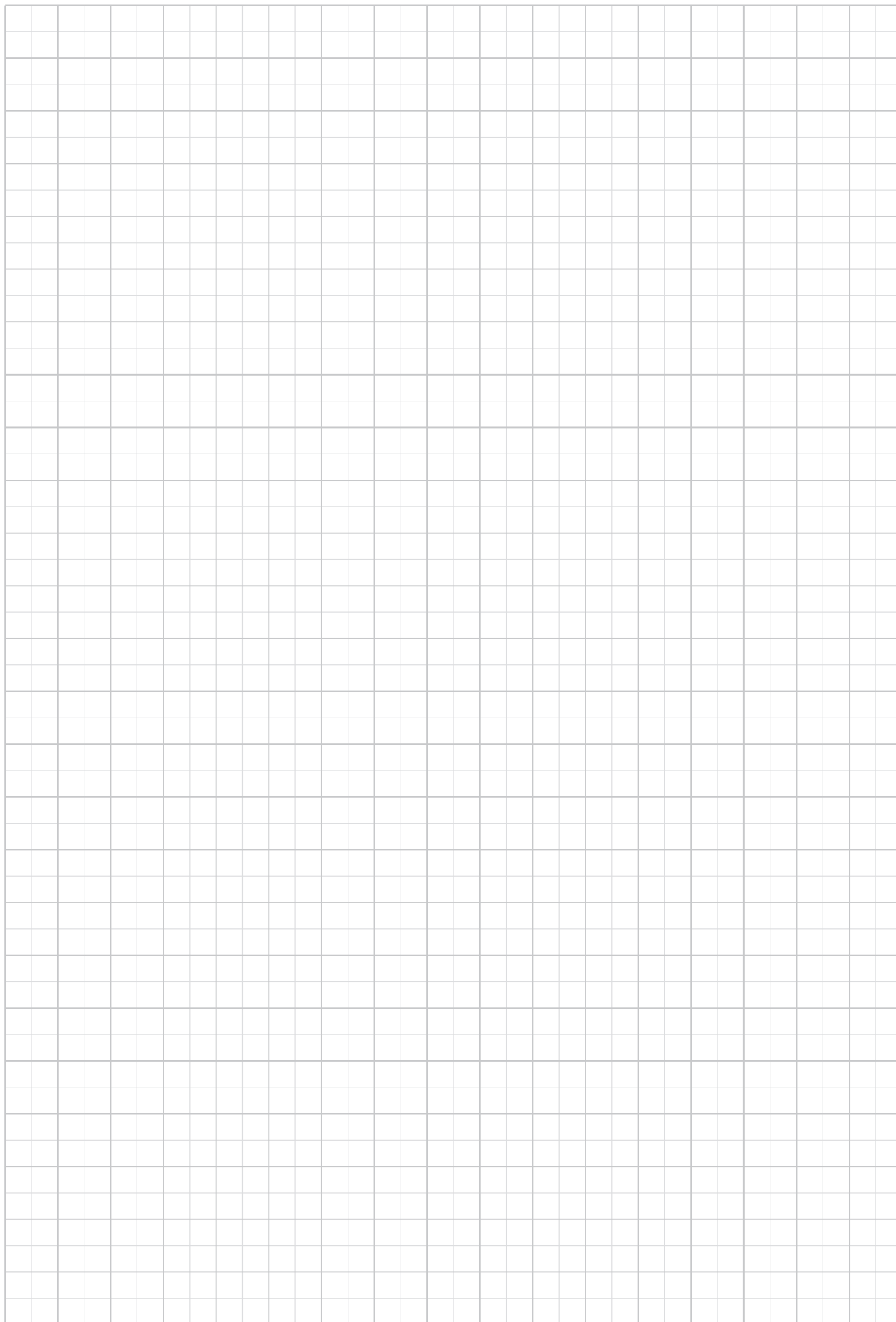
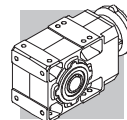
Predisposiciones motor que están disponibles para ser acoplados a reductores A05 ... A60 con servomotores de las marcas más comunes. Las dimensiones de las bridas están indicadas en la sección de dimensiones de cada reductor. La sigla **SK** identifica la fijación con el eje del motor provisto de chavetero, mientras la sigla **SC** corresponde a la fijación mediante aro de apriete (suministrado).

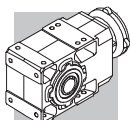
(C 42)

		SERVO INPUT					
		SK40A	SK60A	SK60B	SK80A	SK80B	SK80C
		SC40A	SC60A	SC60B	SC80A	SC80B	SC80C
A 05 2	i =	5.5_91.6	5.5_91.6	5.5_51.3	5.5_51.3		
A 10 2			5.5_91.6	5.5_51.3	5.5_51.3		5.5_65.9
A 20 2			7.3_92.3 ● (10.3)	7.3_63.1 ● (10.3)	7.3_63.1 ● (10.3)		5.4_79.9
A 20 3			109.2_380.9	109.2_380.9	109.2_380.9		109.2_380.9
A 30 2			9.3_97.5 ● (10.5 ; 13.6_16.3)	9.3_76.5 ● (10.5 ; 13.6_16.3)	9.3_76.5 ● (10.5 ; 13.6_16.3)		5.4_97.5
A 30 3			109.1_400.8	109.1_400.8	109.1_400.8		109.1_400.8
A 35 2			9.3_95.6 ● (13.1_20.4)	9.3_95.6 ● (13.1_20.4)	9.3_95.6 ● (13.1_20.4)		5.4_95.6
A 35 3			105.5_393.2	105.5_393.2	105.5_393.2		105.5_393.2
A 41 2						11.7_79.2 ● (13.8_17.8)	5.2_79.2
A 41 3			92.8_376.8	92.8_376.8	92.8_376.8		92.8_376.8
A 50 2						20.9	7.7_20.9
A 50 3						51.7_190.6	24.0_190.6
A 50 4							211.0_778.2
A 55 2							13.1_19.2
A 55 3						64.3_194.2	23.8_194.2
A 55 4							208.1_793.0
A 60 2							10.3_20.6
A 60 3							25.7_185.8
A 60 4						208.7_755.4	208.7_755.4

(C 43)

		SERVO INPUT							
		SK95A	SK95B	SK95C	SK110A	SK110B	SK130A	SK130B	SK180A
		SC95A	SC95B	SC95C	SC110A	SC110B	SC130A	SC130B	SC180A
A 10 2	i =	5.5_51.3	5.5_65.9	5.5_65.9	5.5_65.9	5.5_65.9			
A 20 2		7.3_63.1 ● (10.3)	5.4_79.9	5.4_79.9	5.4_79.9	5.4_79.9			
A 20 3		109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9	109.2_380.9			
A 30 2		9.3_76.5 ● (10.5 ; 13.6_16.3)	5.4_97.5	5.4_97.5	5.4_97.5	5.4_97.5	5.4_97.5		
A 30 3		109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8	109.1_400.8			
A 35 2		9.3_95.6 ● (13.1_20.4)	5.4_95.6	5.4_95.6	5.4_95.6	5.4_95.6	5.4_95.6		
A 35 3		105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2	105.5_393.2			
A 41 2		11.7_79.2 ● (13.8_17.8)	5.2_79.2	5.2_79.2	5.2_79.2	5.2_79.2	5.2_79.2	5.2_45.1	5.2_45.1
A 41 3		92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8	92.8_376.8			
A 50 2		20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9	7.7_20.9
A 50 3		51.7_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_190.6	24.0_109.4	24.0_109.4
A 50 4		211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2	211.0_778.2		
A 55 2			13.1_19.2	13.1_19.2	13.1_19.2	13.1_19.2	13.1_19.2	4.9_19.2	4.9_19.2
A 55 3		64.3_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_194.2	23.8_123.9	23.8_123.9
A 55 4		208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0	208.1_793.0		
A 60 2			10.3_20.6	10.3_20.6	10.3_20.6	10.3_20.6	10.3_20.6	7.9_20.6	7.9_20.6
A 60 3			65.0_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_185.8	25.7_133.3	25.7_133.3
A 60 4			208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4	208.7_755.4		





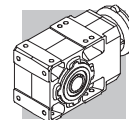
41 MOMENTO DE INERCIA

Las tablas siguientes indican los valores del momento de inercia J_r [Kgm²] referido al eje de entrada del reductor; para una mejor facilidad de comprensión rogamos tengan presente el significado de los símbolos usados.

	Los valores referidos a este símbolo corresponden al reductor compacto sin motor. En este caso para obtener el momento de inercia del motorreductor, se deberá sumar al valor correspondiente al reductor compacto, el del motor que se aplique (dato que se encuentra en las tablas de características técnicas de los motores eléctricos).	IEC	El valor relativo a este símbolo corresponde al reductor predispuesto para el montaje de motor (tamaño IEC).
			El valor atribuido al reductor es referido a este símbolo.
		SERVO	Los valores relativos a estos símbolos deben atribuirse al reductor predispuesto para acomplarse a servomotores.

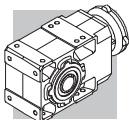
A 05

	i	J (•10 ⁻⁴) [kgm ²]				
			IEC			
			63	71	80	
A 05 2_5.5	5.5	0.72	0.99	1.0	1.4	—
A 05 2_6.3	6.3	0.56	0.83	0.86	1.2	—
A 05 2_7.2	7.2	0.48	0.74	0.77	1.1	—
A 05 2_8.5	8.5	0.36	0.63	0.65	1.0	—
A 05 2_9.6	9.6	0.29	0.55	0.58	0.92	—
A 05 2_10.6	10.6	0.50	0.77	0.80	1.1	—
A 05 2_12.3	12.3	0.18	0.45	0.48	0.82	—
A 05 2_13.9	13.9	0.35	0.62	0.65	0.99	—
A 05 2_16.4	16.4	0.27	0.54	0.57	0.91	—
A 05 2_18.6	18.6	0.22	0.49	0.51	0.86	—
A 05 2_21.4	21.4	0.16	0.43	0.46	0.80	—
A 05 2_23.8	23.8	0.14	0.41	0.43	0.78	—
A 05 2_25.5	25.5	0.13	0.39	0.42	0.76	—
A 05 2_28.6	28.6	0.11	0.38	0.40	0.75	—
A 05 2_32.2	32.2	0.09	0.36	0.39	0.73	—
A 05 2_35.1	35.1	0.08	0.35	0.37	0.72	—
A 05 2_40.9	40.9	0.07	0.33	0.36	0.70	—
A 05 2_45.4	45.4	0.05	0.32	0.35	0.69	—
A 05 2_51.3	51.3	0.04	0.31	0.34	0.68	—
A 05 2_58.6	58.6	0.04	0.31	—	—	—
A 05 2_65.9	65.9	0.03	0.30	—	—	—
A 05 2_76.4	76.4	0.02	0.29	—	—	—
A 05 2_91.6	91.6	0.02	0.28	—	—	—

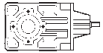


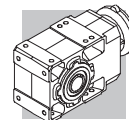
A 05

	i	J ($\cdot 10^{-4}$) [kgm ²]					
		 SERVO					
		40A		60A		60B 80A	
		SK	SC	SK	SC	SK	SC
A 05 2_5.5	5.5	0.89	1.1	0.99	1.3	1.0	1.4
A 05 2_6.3	6.3	0.73	0.89	0.83	1.1	0.86	1.3
A 05 2_7.2	7.2	0.65	0.81	0.74	1.0	0.77	1.2
A 05 2_8.5	8.5	0.53	0.69	0.63	0.89	0.65	1.1
A 05 2_9.6	9.6	0.46	0.62	0.55	0.81	0.58	1.0
A 05 2_10.6	10.6	0.67	0.83	0.77	1.0	0.80	1.2
A 05 2_12.3	12.3	0.35	0.51	0.45	0.71	0.48	0.92
A 05 2_13.9	13.9	0.52	0.68	0.62	0.88	0.65	1.1
A 05 2_16.4	16.4	0.44	0.60	0.54	0.80	0.57	1.0
A 05 2_18.6	18.6	0.39	0.55	0.49	0.75	0.51	0.95
A 05 2_21.4	21.4	0.33	0.49	0.43	0.69	0.46	0.90
A 05 2_23.8	23.8	0.31	0.47	0.41	0.67	0.43	0.87
A 05 2_25.5	25.5	0.30	0.46	0.39	0.65	0.42	0.86
A 05 2_28.6	28.6	0.28	0.44	0.38	0.64	0.40	0.84
A 05 2_32.2	32.2	0.26	0.42	0.36	0.62	0.39	0.83
A 05 2_35.1	35.1	0.25	0.41	0.35	0.61	0.37	0.81
A 05 2_40.9	40.9	0.24	0.40	0.33	0.59	0.36	0.80
A 05 2_45.4	45.4	0.22	0.38	0.32	0.58	0.35	0.79
A 05 2_51.3	51.3	0.21	0.37	0.31	0.57	0.34	0.78
A 05 2_58.6	58.6	0.21	0.37	0.31	0.57	—	—
A 05 2_65.9	65.9	0.20	0.36	0.30	0.56	—	—
A 05 2_76.4	76.4	0.19	0.35	0.29	0.55	—	—
A 05 2_91.6	91.6	0.19	0.35	0.28	0.54	—	—



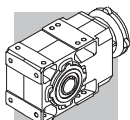
A 10

	i	J (•10 ⁻⁴) [kgm ²]							
			 IEC						
			63	71	80	90	100	112	
A 10 2_5.5	5.5	1.0	2.5	2.5	3.9	3.8	5.1	5.1	1.8
A 10 2_6.3	6.3	0.80	2.3	2.3	3.7	3.6	4.9	4.9	1.6
A 10 2_7.2	7.2	0.60	2.1	2.1	3.5	3.4	4.7	4.7	1.5
A 10 2_8.5	8.5	0.45	1.9	1.9	3.3	3.1	4.5	4.5	1.4
A 10 2_9.6	9.6	0.30	1.8	1.8	3.2	3.1	4.4	4.4	1.3
A 10 2_10.6	10.6	0.50	2.0	2.0	3.4	3.3	4.6	4.6	1.4
A 10 2_12.3	12.3	0.20	1.7	1.7	3.1	3.0	4.3	4.3	1.1
A 10 2_13.9	13.9	0.30	1.8	1.8	3.2	3.1	4.6	4.6	1.2
A 10 2_16.4	16.4	0.25	1.7	1.7	3.1	3.0	4.3	4.3	1.1
A 10 2_18.6	18.6	0.20	1.7	1.7	3.1	3.0	4.3	4.3	1.0
A 10 2_21.4	21.4	0.15	1.6	1.6	3.0	2.9	4.2	4.2	1.0
A 10 2_23.8	23.8	0.10	1.6	1.6	3.0	2.9	4.2	4.2	1.0
A 10 2_25.5	25.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	1.0
A 10 2_28.6	28.6	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_32.2	32.2	0.08	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_35.1	35.1	0.07	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_40.9	40.9	0.06	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_45.4	45.4	0.05	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 10 2_51.3	51.3	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 10 2_58.6	58.6	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 10 2_65.9	65.9	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 10 2_76.4	76.4	0.02	1.5	1.5	—	—	—	—	0.90
A 10 2_91.6	91.6	0.01	1.5	1.5	—	—	—	—	0.90



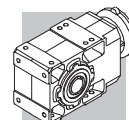
A 10

	i	J (•10 ⁻⁴) [kgm ²]									
		 SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 10 2_5.5	5.5	1.3	1.5	1.3	1.7	3.8	4.3	3.9	4.4	3.8	4.8
A 10 2_6.3	6.3	1.1	1.3	1.1	1.5	3.6	4.1	3.7	4.2	3.6	4.6
A 10 2_7.2	7.2	0.87	1.1	0.89	1.3	3.4	3.9	3.5	4.0	3.4	4.4
A 10 2_8.5	8.5	0.72	0.98	0.74	1.2	3.3	3.7	3.3	3.8	3.1	4.1
A 10 2_9.6	9.6	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1
A 10 2_10.6	10.6	0.77	1.0	0.79	1.2	3.3	3.8	3.4	3.9	3.3	4.3
A 10 2_12.3	12.3	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 10 2_13.9	13.9	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1
A 10 2_16.4	16.4	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	3.0	4.0
A 10 2_18.6	18.6	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 10 2_21.4	21.4	0.42	0.68	0.44	0.88	3.0	3.4	3.0	3.5	2.9	3.9
A 10 2_23.8	23.8	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 10 2_25.5	25.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 10 2_28.6	28.6	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 10 2_32.2	32.2	0.35	0.61	0.37	0.81	2.9	3.3	3.0	3.5	2.9	3.9
A 10 2_35.1	35.1	0.34	0.60	0.36	0.80	2.9	3.3	3.0	3.5	2.9	3.9
A 10 2_40.9	40.9	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9
A 10 2_45.4	45.4	0.32	0.58	0.34	0.78	2.9	3.3	3.0	3.5	2.9	3.9
A 10 2_51.3	51.3	0.30	0.56	0.32	0.76	2.9	3.3	2.9	3.4	2.8	3.8
A 10 2_58.6	58.6	0.30	0.56	—	—	—	—	2.9	3.4	2.8	3.8
A 10 2_65.9	65.9	0.29	0.55	—	—	—	—	2.9	3.4	2.8	3.8
A 10 2_76.4	76.4	0.29	0.55	—	—	—	—	—	—	—	—
A 10 2_91.6	91.6	0.28	0.54	—	—	—	—	—	—	—	—



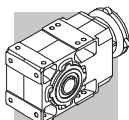
A 20

	i	J (•10-4) [kgm²]							
			 IEC						
			63	71	80	90	100	112	
A 20 2_5.4	5.4	2.4	—	—	5.3	5.2	6.5	6.5	4.3
A 20 2_6.5	6.5	1.9	—	—	4.8	4.7	6.0	6.0	3.8
A 20 2_7.3	7.3	1.4	2.9	2.9	4.3	4.2	5.5	5.5	3.3
A 20 2_8.4	8.4	1.1	2.6	2.6	4.0	3.9	5.2	5.2	3.0
A 20 2_9.4	9.4	0.90	2.4	2.4	3.8	3.7	5.0	5.0	2.8
A 20 2_10.3	10.3	1.2	—	—	4.1	4.0	5.3	5.3	3.0
A 20 2_12.0	12.0	0.50	2.0	2.0	3.4	3.3	4.6	4.6	2.4
A 20 2_14.1	14.1	0.70	2.2	2.2	3.6	3.5	4.8	4.8	2.6
A 20 2_16.2	16.2	0.55	2.0	2.0	3.4	3.3	4.6	4.6	2.5
A 20 2_18.1	18.1	0.40	1.9	1.9	3.3	3.2	4.5	4.5	2.4
A 20 2_21.2	21.2	0.35	1.8	1.8	3.2	3.1	4.4	4.4	2.3
A 20 2_23.1	23.1	0.30	1.8	1.8	3.2	3.1	4.4	4.4	2.2
A 20 2_26.5	26.5	0.25	1.7	1.7	3.1	3.0	4.3	4.3	2.1
A 20 2_29.2	29.2	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.1
A 20 2_31.3	31.3	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.1
A 20 2_35.4	35.4	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.1
A 20 2_39.6	39.6	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_43.2	43.2	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_48.3	48.3	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_53.7	53.7	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_63.1	63.1	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.0
A 20 2_71.0	71.0	0.05	1.5	1.5	2.9	2.8	4.1	4.1	2.0
A 20 2_79.9	79.9	0.03	1.5	1.5	2.9	2.8	4.1	4.1	2.0
A 20 2_92.3	92.3	0.02	1.5	1.5	—	—	—	—	2.0
A 20 3_109.2	109.2	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_120.5	120.5	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_129.1	129.1	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_146.1	146.1	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_163.4	163.4	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_178.3	178.3	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_199.2	199.2	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_221.3	221.3	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_260.5	260.5	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_292.8	292.8	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_329.4	329.4	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90
A 20 3_380.9	380.9	0.01	1.5	1.5	2.9	2.8	4.1	4.1	0.90



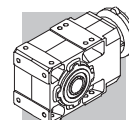
A 20

	i	J (•10 ⁻⁴) [kgm ²]									
		 SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 20 2_5.4	5.4	—	—	—	—	—	—	5.3	5.8	5.2	6.2
A 20 2_6.5	6.5	—	—	—	—	—	—	4.8	5.3	4.7	5.7
A 20 2_7.3	7.3	1.7	1.9	1.7	2.1	4.2	4.7	4.3	4.8	4.2	5.2
A 20 2_8.4	8.4	1.4	1.6	1.4	1.8	3.9	4.6	4.0	4.5	3.9	4.9
A 20 2_9.4	9.4	1.2	1.4	1.2	1.6	3.7	4.2	3.8	4.3	3.7	4.7
A 20 2_10.3	10.3	—	—	—	—	—	—	4.1	4.6	4.0	5.0
A 20 2_12.0	12.0	0.77	1.0	0.79	1.2	3.3	3.8	3.4	3.9	3.3	4.3
A 20 2_14.1	14.1	0.97	1.2	0.99	1.4	3.5	4.0	3.6	4.1	3.5	4.5
A 20 2_16.2	16.2	0.82	1.1	0.84	1.3	3.4	3.8	3.4	3.9	3.3	4.3
A 20 2_18.1	18.1	0.67	0.93	0.69	1.1	3.2	3.7	3.3	3.8	3.2	4.2
A 20 2_21.2	21.2	0.62	0.88	0.64	1.1	3.2	3.6	3.2	3.7	3.1	4.1
A 20 2_23.1	23.1	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1
A 20 2_26.5	26.5	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	3.0	4.0
A 20 2_29.2	29.2	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 20 2_31.3	31.3	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 20 2_35.4	35.4	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0
A 20 2_39.6	39.6	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_43.2	43.2	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_48.3	48.3	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_53.7	53.7	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_63.1	63.1	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9
A 20 2_71.0	71.0	0.32	0.58	—	—	—	—	2.9	3.4	2.8	3.8
A 20 2_79.9	79.9	0.30	0.56	—	—	—	—	2.9	3.4	2.8	3.8
A 20 2_92.3	92.3	0.29	0.55	—	—	—	—	—	—	—	—
A 20 3_109.2	109.2	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_120.5	120.5	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_129.1	129.1	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_146.1	146.1	0.29	0.55	0.31	0.75	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_163.4	163.4	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_178.3	178.3	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_199.2	199.2	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_221.3	221.3	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_260.5	260.5	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_292.8	292.8	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_329.4	329.4	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8
A 20 3_380.9	380.9	0.28	0.54	0.30	0.74	2.8	3.3	2.9	3.4	2.8	3.8



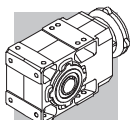
A 30

	i	J (•10 ⁻⁴) [kgm ²]							
			 IEC						
			63	71	80	90	100	112	
A 30 2_5.4	5.4	4.5	—	—	7.4	7.3	8.6	8.6	6.9
A 30 2_6.4	6.4	3.4	—	—	6.6	6.6	7.8	7.8	6.0
A 30 2_7.0	7.0	2.9	—	—	5.8	5.8	7.0	7.0	5.2
A 30 2_8.5	8.5	2.2	—	—	5.1	5.1	6.3	6.3	4.6
A 30 2_9.3	9.3	1.6	3.1	3.1	4.5	4.4	5.7	5.7	4.0
A 30 2_10.5	10.5	2.3	—	—	5.2	5.1	6.4	6.4	4.6
A 30 2_11.8	11.8	1.1	2.6	2.6	4.0	3.9	5.2	5.2	3.4
A 30 2_13.6	13.6	1.5	—	—	4.4	4.3	5.6	5.6	3.9
A 30 2_16.3	16.3	1.2	—	—	4.1	4.0	5.3	5.3	3.5
A 30 2_18.0	18.0	0.90	2.4	2.4	3.8	3.7	5.0	5.0	3.2
A 30 2_20.5	20.5	0.70	2.2	2.2	3.6	3.5	4.8	4.8	3.1
A 30 2_22.8	22.8	0.60	2.1	2.1	3.5	3.4	4.7	4.7	3.0
A 30 2_26.5	26.5	0.50	2.0	2.0	3.4	3.3	4.6	4.6	2.9
A 30 2_29.3	29.3	0.40	1.9	1.9	3.3	3.2	4.5	4.5	2.8
A 30 2_33.4	33.4	0.35	1.8	1.8	3.2	3.1	4.4	4.4	2.7
A 30 2_36.6	36.6	0.30	1.8	1.8	3.2	3.1	4.4	4.4	2.7
A 30 2_39.3	39.3	0.25	1.7	1.7	3.1	3.0	4.3	4.3	2.6
A 30 2_43.4	43.4	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.6
A 30 2_48.3	48.3	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.6
A 30 2_52.7	52.7	0.20	1.7	1.7	3.1	3.0	4.3	4.3	2.5
A 30 2_59.4	59.4	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.5
A 30 2_66.0	66.0	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.5
A 30 2_76.5	76.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.5
A 30 2_86.7	86.7	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.5
A 30 2_97.5	97.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	2.4
A 30 3_109.1	109.1	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_120.5	120.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_137.4	137.4	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_150.7	150.7	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_161.4	161.4	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_178.5	178.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_198.5	198.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_216.6	216.6	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_244.3	244.3	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_271.5	271.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_314.5	314.5	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_356.3	356.3	0.06	1.6	1.6	3.0	2.9	4.2	4.2	0.90
A 30 3_400.8	400.8	0.04	1.5	1.6	2.9	2.8	4.1	4.1	0.90



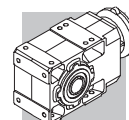
A 30

	i	J (•10 ⁻⁴) [kgm ²]											
		 SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 30 2_5.4	5.4	—	—	—	—	—	—	7.4	7.9	7.3	8.3	7.3	8.3
A 30 2_6.4	6.4	—	—	—	—	—	—	6.6	7.1	6.6	7.6	6.6	7.6
A 30 2_7.0	7.0	—	—	—	—	—	—	5.8	6.3	5.8	6.8	5.8	6.8
A 30 2_8.5	8.5	—	—	—	—	—	—	5.1	5.6	5.1	6.1	5.1	6.1
A 30 2_9.3	9.3	1.9	2.1	1.9	2.3	4.4	4.9	4.5	5.0	4.4	5.4	4.4	5.4
A 30 2_10.5	10.5	—	—	—	—	—	—	5.2	5.7	5.1	6.1	5.1	6.1
A 30 2_11.8	11.8	1.4	1.6	1.4	1.8	3.9	4.4	4.0	4.5	3.9	4.9	3.9	4.9
A 30 2_13.6	13.6	—	—	—	—	—	—	4.4	4.9	4.3	5.3	4.3	5.3
A 30 2_16.3	16.3	—	—	—	—	—	—	4.1	4.6	4.0	5.0	4.0	5.0
A 30 2_18.0	18.0	1.2	1.4	1.2	1.6	3.7	4.2	3.8	4.3	3.7	4.7	3.7	4.7
A 30 2_20.5	20.5	0.97	1.2	0.99	1.4	3.5	4.0	3.6	4.1	3.5	4.5	3.5	4.5
A 30 2_22.8	22.8	0.87	1.1	0.89	1.3	3.4	3.9	3.5	4.0	3.4	4.4	3.4	4.4
A 30 2_26.5	26.5	0.77	1.0	0.79	1.2	3.3	3.8	3.4	3.9	3.3	4.3	3.3	4.3
A 30 2_29.3	29.3	0.67	0.93	0.69	1.1	3.2	3.7	3.3	3.8	3.2	4.2	3.2	4.2
A 30 2_33.4	33.4	0.62	0.88	0.64	1.1	3.2	3.6	3.2	3.7	3.1	4.1	3.1	4.1
A 30 2_36.6	36.6	0.57	0.83	0.59	1.0	3.1	3.6	3.2	3.7	3.1	4.1	3.1	4.1
A 30 2_39.3	39.3	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	3.0	4.0	3.0	4.0
A 30 2_43.4	43.4	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0
A 30 2_48.3	48.3	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0
A 30 2_52.7	52.7	0.47	0.73	0.49	0.93	3.0	3.5	3.1	3.6	3.0	4.0	3.0	4.0
A 30 2_59.4	59.4	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
A 30 2_66.0	66.0	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
A 30 2_76.5	76.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	2.9	3.9
A 30 2_86.7	86.7	0.37	0.63	—	—	—	—	3.0	3.5	2.9	3.9	2.9	3.9
A 30 2_97.5	97.5	0.37	0.63	—	—	—	—	3.0	3.5	2.9	3.9	2.9	3.9
A 30 3_109.1	109.1	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_120.5	120.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_137.4	137.4	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_150.7	150.7	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_161.4	161.4	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_178.5	178.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_198.5	198.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_216.6	216.6	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_244.3	244.3	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_271.5	271.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_314.5	314.5	0.37	0.63	0.39	0.83	2.9	3.4	3.0	3.5	2.9	3.9	—	—
A 30 3_356.3	356.3	0.33	0.59	0.35	0.79	2.9	3.3	3.0	3.5	2.9	3.9	—	—
A 30 3_400.8	400.8	0.31	0.57	0.33	0.77	2.9	3.3	2.9	3.4	2.8	3.8	—	—



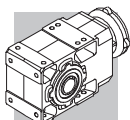
A 35

	i	J (•10-4) [kgm²]								
			 IEC							
			63	71	80	90	100	112	132	
A 35 2_5.4	5.4	7.3	—	—	10	9.9	11	11	24	9.4
A 35 2_6.4	6.4	5.4	—	—	8.1	8.0	9.2	9.2	22	7.4
A 35 2_7.0	7.0	4.6	—	—	7.3	7.2	8.4	8.4	21	6.6
A 35 2_8.5	8.5	3.3	—	—	6.1	5.9	7.1	7.1	20	5.4
A 35 2_9.3	9.3	2.8	3.5	3.5	5.6	5.4	6.6	6.6	19	4.9
A 35 2_10.6	10.6	2.1	2.9	2.9	4.9	4.8	6.0	6.0	19	4.2
A 35 2_11.8	11.8	1.8	2.5	2.5	4.6	4.4	5.7	5.7	18	3.9
A 35 2_13.1	13.1	3.0	—	—	5.7	5.6	6.8	6.8	—	5.0
A 35 2_15.5	15.5	2.2	—	—	5.0	4.9	6.1	6.1	—	4.3
A 35 2_17.0	17.0	2.0	—	—	4.7	4.6	5.8	5.8	—	4.0
A 35 2_20.4	20.4	1.6	—	—	4.3	4.2	5.4	5.4	—	3.6
A 35 2_22.5	22.5	1.3	2.0	2.0	4.1	3.9	5.1	5.1	—	3.4
A 35 2_25.7	25.7	0.97	1.7	1.7	3.7	3.6	4.8	4.8	—	3.0
A 35 2_28.4	28.4	0.86	1.6	1.6	3.6	3.5	4.7	4.7	—	2.9
A 35 2_33.2	33.2	0.69	1.4	1.4	3.5	3.3	4.5	4.5	—	2.8
A 35 2_36.6	36.6	0.58	1.3	1.3	3.3	3.2	4.4	4.4	—	2.6
A 35 2_41.8	41.8	0.48	1.2	1.2	3.2	3.1	4.3	4.3	—	2.5
A 35 2_45.8	45.8	0.42	1.1	1.1	3.2	3.1	4.3	4.3	—	2.5
A 35 2_49.1	49.1	0.38	1.1	1.1	3.1	3.0	4.2	4.2	—	2.4
A 35 2_54.3	54.3	0.33	1.1	1.0	3.1	3.0	4.2	4.2	—	2.4
A 35 2_60.4	60.4	0.29	1.0	1.0	3.0	2.9	4.1	4.1	—	2.3
A 35 2_65.8	65.8	0.25	1.0	1.0	3.0	2.9	4.1	4.1	—	2.3
A 35 2_74.3	74.3	0.21	0.95	0.93	3.0	2.8	4.1	4.1	—	2.3
A 35 2_82.5	82.5	0.18	0.92	0.90	2.9	2.8	4.0	4.0	—	2.2
A 35 2_95.6	95.6	0.15	0.88	0.87	2.9	2.8	4.0	4.0	—	2.2
A 35 3_105.5	105.5	0.11	0.89	0.87	2.9	2.8	4.0	4.0	—	0.80
A 35 3_116.9	116.9	0.11	0.88	0.87	2.9	2.8	4.0	4.0	—	0.79
A 35 3_136.3	136.3	0.10	0.87	0.86	2.9	2.8	4.0	4.0	—	0.78
A 35 3_150.6	150.6	0.09	0.86	0.85	2.9	2.8	4.0	4.0	—	0.77
A 35 3_171.8	171.8	0.08	0.86	0.84	2.9	2.8	4.0	4.0	—	0.77
A 35 3_188.3	188.3	0.08	0.85	0.84	2.9	2.7	4.0	4.0	—	0.76
A 35 3_201.8	201.8	0.08	0.85	0.84	2.9	2.7	4.0	4.0	—	0.76
A 35 3_223.2	223.2	0.08	0.85	0.84	2.9	2.7	4.0	4.0	—	0.76
A 35 3_248.1	248.1	0.07	0.85	0.83	2.9	2.7	4.0	4.0	—	0.76
A 35 3_270.7	270.7	0.07	0.84	0.83	2.9	2.7	4.0	4.0	—	0.75
A 35 3_305.4	305.4	0.07	0.84	0.83	2.9	2.7	4.0	4.0	—	0.75
A 35 3_339.3	339.3	0.07	0.84	0.83	2.9	2.7	4.0	4.0	—	0.75
A 35 3_393.2	393.2	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75



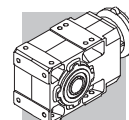
A 35

	i	J (•10 ⁻⁴) [kgm ²]											
		 SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 35 2_5.4	5.4	—	—	—	—	—	—	10	11	9.9	10.9	9.9	11
A 35 2_6.4	6.4	—	—	—	—	—	—	8.1	8.6	8.0	9.0	8.0	9.0
A 35 2_7.0	7.0	—	—	—	—	—	—	7.3	7.8	7.2	8.2	7.2	8.2
A 35 2_8.5	8.5	—	—	—	—	—	—	6.1	6.6	5.9	6.9	5.9	6.9
A 35 2_9.3	9.3	3.1	3.3	3.1	3.5	5.6	6.1	5.6	6.1	5.4	6.4	5.4	6.4
A 35 2_10.6	10.6	2.4	2.6	2.4	2.8	4.9	5.4	4.9	5.4	4.8	5.8	4.8	5.8
A 35 2_11.8	11.8	2.1	2.3	2.1	2.5	4.6	5.1	4.6	5.1	4.4	5.4	4.4	5.4
A 35 2_13.1	13.1	—	—	—	—	—	—	5.7	6.2	5.6	6.6	5.6	6.6
A 35 2_15.5	15.5	—	—	—	—	—	—	5.0	5.5	4.9	5.9	4.9	5.9
A 35 2_17.0	17.0	—	—	—	—	—	—	4.7	5.2	4.6	5.6	4.6	5.6
A 35 2_20.4	20.4	—	—	—	—	—	—	4.3	4.8	4.2	5.2	4.2	5.2
A 35 2_22.5	22.5	1.6	1.8	1.6	2.0	4.1	4.6	4.1	4.6	3.9	4.9	3.9	4.9
A 35 2_25.7	25.7	1.2	1.5	1.3	1.7	3.8	4.2	3.7	4.2	3.6	4.6	3.6	4.6
A 35 2_28.4	28.4	1.1	1.4	1.2	1.6	3.7	4.1	3.6	4.1	3.5	4.5	3.5	4.5
A 35 2_33.2	33.2	0.96	1.2	0.98	1.4	3.5	3.9	3.5	4.0	3.3	4.3	3.3	4.3
A 35 2_36.6	36.6	0.85	1.1	0.87	1.3	3.4	3.8	3.3	3.8	3.2	4.2	3.2	4.2
A 35 2_41.8	41.8	0.75	1.0	0.77	1.2	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1
A 35 2_45.8	45.8	0.69	0.95	0.71	1.1	3.2	3.7	3.2	3.7	3.1	4.1	3.1	4.1
A 35 2_49.1	49.1	0.65	0.91	0.67	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
A 35 2_54.3	54.3	0.60	0.86	0.62	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
A 35 2_60.4	60.4	0.56	0.82	0.58	1.0	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9
A 35 2_65.8	65.8	0.52	0.78	0.54	0.98	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9
A 35 2_74.3	74.3	0.48	0.74	0.50	0.94	3.0	3.5	3.0	3.5	2.8	3.8	2.8	3.8
A 35 2_82.5	82.5	0.45	0.71	0.47	0.91	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
A 35 2_95.6	95.6	0.42	0.68	0.44	0.88	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
A 35 3_105.5	105.5	0.38	0.64	0.40	0.84	2.9	3.4	2.9	3.4	2.8	3.8	—	—
A 35 3_116.9	116.9	0.38	0.64	0.40	0.84	2.9	3.4	2.9	3.4	2.8	3.8	—	—
A 35 3_136.3	136.3	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.8	3.8	—	—
A 35 3_150.6	150.6	0.36	0.62	0.38	0.82	2.9	3.3	2.9	3.4	2.8	3.8	—	—
A 35 3_171.8	171.8	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.8	3.8	—	—
A 35 3_188.3	188.3	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_201.8	201.8	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_223.2	223.2	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_248.1	248.1	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_270.7	270.7	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_305.4	305.4	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_339.3	339.3	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
A 35 3_393.2	393.2	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—



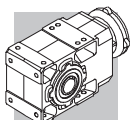
A 41

	i	J (•10-4) [kgm²]								
			 IEC							
			63	71	80	90	100	112		132
A 41 2_5.2	5.2	13	—	—	16	16	17	17	32	23
A 41 2_7.1	7.1	7.3	—	—	10	10	11	11	26	18
A 41 2_8.3	8.3	5.9	—	—	8.8	8.7	10	10	25	16
A 41 2_9.2	9.2	4.5	—	—	7.4	7.3	8.6	8.6	23	15
A 41 2_10.1	10.1	5.9	—	—	8.8	8.7	10	10	25	16
A 41 2_11.7	11.7	2.9	4.4	4.4	5.8	5.7	7.0	7.0	22	13
A 41 2_13.8	13.8	3.6	—	—	6.5	6.4	7.7	7.7	23	14
A 41 2_16.1	16.1	2.9	—	—	5.8	5.7	7.0	7.0	22	13
A 41 2_17.8	17.8	2.2	—	—	5.1	5.0	6.3	6.3	21	11
A 41 2_22.7	22.7	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	11
A 41 2_28.3	28.3	1.1	2.6	2.6	4.0	3.9	5.2	5.2	20	10
A 41 2_35.9	35.9	1.7	3.2	3.2	4.6	4.5	5.8	5.8	20	9.8
A 41 2_45.1	45.1	1.5	3.0	3.0	4.4	4.3	5.6	5.6	20	9.6
A 41 2_48.3	48.3	1.4	2.9	2.9	4.3	4.2	5.5	5.5	—	9.5
A 41 2_53.1	53.1	1.4	2.9	2.9	4.3	4.2	5.5	5.5	—	9.5
A 41 2_58.8	58.8	1.3	2.8	2.8	4.2	4.1	5.4	5.4	—	9.4
A 41 2_64.2	64.2	1.3	2.8	2.8	4.2	4.1	5.4	5.4	—	9.4
A 41 2_71.3	71.3	1.2	2.7	2.7	4.1	4.0	5.3	5.3	—	9.3
A 41 2_79.2	79.2	1.2	2.7	2.7	4.1	4.0	5.3	5.3	—	9.3
A 41 3_92.8	92.8	1.1	2.6	2.6	4.0	3.9	5.2	5.2	—	9.2
A 41 3_115.9	115.9	0.20	1.7	1.7	2.9	3.0	4.3	4.3	—	2.1
A 41 3_146.9	146.9	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.1
A 41 3_184.4	184.4	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.1
A 41 3_197.5	197.5	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_217.4	217.4	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_240.6	240.6	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_262.5	262.5	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_291.7	291.7	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_324.2	324.2	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0
A 41 3_376.8	376.8	0.10	1.6	1.6	2.8	2.9	4.2	4.2	—	2.0



A 41

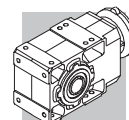
	i	J (•10 ⁻⁴) [kgm ²]																	
		SERVO																	
		60A		60B 80A		80B		95A		80C 95B 110A		95C 110B		130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 41 2_5.2	5.2	—	—	—	—	—	—	—	—	16	16.5	16	17	16	17	30	32	32	37
A 41 2_7.1	7.1	—	—	—	—	—	—	—	—	10	10.5	10	11	10	11	24	27	26	31
A 41 2_8.3	8.3	—	—	—	—	—	—	—	—	8.8	9.3	8.7	9.7	8.7	9.7	23	25	25	30
A 41 2_9.2	9.2	—	—	—	—	—	—	—	—	7.4	7.9	7.3	8.3	7.3	8.3	21	24	23	28
A 41 2_10.1	10.1	—	—	—	—	—	—	—	—	8.8	9.3	8.7	9.7	8.7	9.7	23	25	25	30
A 41 2_11.7	11.7	—	—	—	—	5.7	6.2	5.7	6.2	5.8	6.3	5.7	6.7	5.7	6.7	20	22	22	27
A 41 2_13.8	13.8	—	—	—	—	—	—	—	—	6.5	7.0	6.4	7.4	6.4	7.4	21	23	23	28
A 41 2_16.1	16.1	—	—	—	—	—	—	—	—	5.8	6.3	5.7	6.7	5.7	6.7	20	22	22	27
A 41 2_17.8	17.8	—	—	—	—	—	—	—	—	5.1	5.6	5.0	6.0	5.0	6.0	19	22	21	26
A 41 2_22.7	22.7	—	—	—	—	4.3	4.8	4.3	4.8	4.4	4.9	4.3	5.3	4.3	5.3	18	21	20	25
A 41 2_28.3	28.3	—	—	—	—	3.9	4.4	3.9	4.4	4.0	4.5	3.9	4.9	3.9	4.9	18	21	20	25
A 41 2_35.9	35.9	—	—	—	—	4.5	5.0	4.5	5.0	4.6	5.1	4.5	5.5	4.5	5.5	19	21	20	25
A 41 2_45.1	45.1	—	—	—	—	4.3	4.8	4.3	4.8	4.4	4.9	4.3	5.3	4.3	5.3	18	21	20	25
A 41 2_48.3	48.3	—	—	—	—	4.2	4.7	4.2	4.7	4.3	4.8	4.2	5.2	4.2	5.2	—	—	—	—
A 41 2_53.1	53.1	—	—	—	—	4.2	4.7	4.2	4.7	4.3	4.8	4.2	5.2	4.2	5.2	—	—	—	—
A 41 2_58.8	58.8	—	—	—	—	4.1	4.6	4.1	4.6	4.2	4.7	4.1	5.1	4.1	5.1	—	—	—	—
A 41 2_64.2	64.2	—	—	—	—	4.1	4.6	4.1	4.6	4.2	4.7	4.1	5.1	4.1	5.1	—	—	—	—
A 41 2_71.3	71.3	—	—	—	—	4.0	4.5	4.0	4.5	4.1	4.6	4.0	5.0	4.0	5.0	—	—	—	—
A 41 2_79.2	79.2	—	—	—	—	4.0	4.5	4.0	4.5	4.1	4.6	4.0	5.0	4.0	5.0	—	—	—	—
A 41 3_92.8	92.8	1.4	1.6	1.4	1.8	—	—	3.9	4.4	4.0	4.5	3.9	4.9	—	—	—	—	—	—
A 41 3_115.9	115.9	0.47	0.73	0.49	0.93	—	—	3.0	3.5	2.9	3.4	3.0	4.0	—	—	—	—	—	—
A 41 3_146.9	146.9	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_184.4	184.4	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_197.5	197.5	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_217.4	217.4	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_240.6	240.6	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_262.5	262.5	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_291.7	291.7	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_324.2	324.2	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—
A 41 3_376.8	376.8	0.37	0.63	0.39	0.83	—	—	2.9	3.4	2.8	3.3	2.9	3.9	—	—	—	—	—	—



A 50

	i	J (•10 ⁻⁴) [kgm ²]										
			 IEC									
			63	71	80	90	100	112	132	160	180	
A 50 2_7.7	7.7	15	—	—	18	18	19	19	34	93	91	24
A 50 2_9.7	9.7	10	—	—	13	13	14	14	29	89	86	19
A 50 2_13.1	13.1	6.3	—	—	9.2	9.1	10	10	25	85	82	15
A 50 2_16.6	16.6	4.2	—	—	7.0	7.0	8.2	8.2	23	82	80	13
A 50 2_20.9	20.9	2.8	4.2	4.2	5.7	5.6	6.9	6.9	22	81	79	12
A 50 3_24.0	24.0	6.0	—	—	8.9	8.8	10	10	25	84	82	15
A 50 3_26.4	26.4	5.8	—	—	8.7	8.6	9.9	9.9	25	84	82	15
A 50 3_32.4	32.4	4.0	—	—	6.8	6.8	8.1	8.1	23	82	80	13
A 50 3_35.6	35.6	3.9	—	—	6.7	6.7	8.0	8.0	23	82	80	13
A 50 3_40.9	40.9	2.7	—	—	5.6	5.5	6.8	6.8	22	81	79	12
A 50 3_45.0	45.0	2.6	—	—	5.5	5.4	6.7	6.7	22	81	79	12
A 50 3_51.7	51.7	1.9	3.4	3.4	4.7	4.7	6.0	6.0	21	80	78	11
A 50 3_56.8	56.8	1.9	3.3	3.3	4.7	4.6	5.9	5.9	21	80	78	11
A 50 3_63.9	63.9	1.4	2.9	2.8	4.2	4.2	5.5	5.5	20	80	77	11
A 50 3_70.2	70.2	1.4	2.8	2.8	4.2	4.1	5.4	5.4	20	80	77	10
A 50 3_81.5	81.5	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	79	77	10
A 50 3_89.5	89.5	0.90	2.4	2.4	3.7	3.7	5.0	5.0	20	79	77	10
A 50 3_99.5	99.5	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	79	77	9.7
A 50 3_109.4	109.4	0.60	2.1	2.1	3.5	3.4	4.7	4.7	20	79	77	9.7
A 50 3_118.0	118.0	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	9.6
A 50 3_129.7	129.7	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	9.6
A 50 3_140.6	140.6	0.40	1.8	1.8	3.2	3.2	4.4	4.4	—	—	—	9.4
A 50 3_154.6	154.6	0.40	1.8	1.8	3.2	3.2	4.4	4.4	—	—	—	9.4
A 50 3_173.4	173.4	0.30	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	9.3
A 50 3_190.6	190.6	0.20	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	9.3

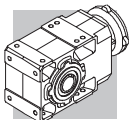
Para los valores de los momentos de inercia correspondientes a los reductores de 4 etapas, consultar con nuestro Servicio Técnico.



A 50

	i	J (•10 ⁻⁴) [kgm ²]									
		 SERVO									
		80B 95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 50 2_7.7	7.7	—	—	18	19	18	19	32	34	34	39
A 50 2_9.7	9.7	—	—	13	14	13	14	27	29	29	34
A 50 2_13.1	13.1	—	—	9.2	9.7	9.1	10	23	26	25	30
A 50 2_16.6	16.6	—	—	7.0	7.5	7.0	8.0	21	24	23	28
A 50 2_20.9	20.9	5.6	6.1	5.7	6.2	5.6	6.6	20	22	22	27
A 50 3_24.0	24.0	—	—	8.9	9.4	8.8	9.8	23	25	25	30
A 50 3_26.4	26.4	—	—	8.7	9.2	8.6	9.6	23	25	25	30
A 50 3_32.4	32.4	—	—	6.8	7.3	6.8	7.8	21	23	23	28
A 50 3_35.6	35.6	—	—	6.7	7.2	6.7	7.7	21	23	23	28
A 50 3_40.9	40.9	—	—	5.6	6.1	5.5	6.5	20	22	22	27
A 50 3_45.0	45.0	—	—	5.5	6.0	5.4	6.4	20	22	22	27
A 50 3_51.7	51.7	4.7	5.1	4.7	5.2	4.7	5.7	19	21	21	26
A 50 3_56.8	56.8	4.7	5.1	4.7	5.2	4.6	5.6	19	21	21	26
A 50 3_63.9	63.9	4.2	4.7	4.2	5.2	4.2	5.2	18	21	20	25
A 50 3_70.2	70.2	4.2	4.7	4.2	5.2	4.1	5.1	18	21	20	25
A 50 3_81.5	81.5	3.7	4.1	3.8	4.3	3.7	4.7	18	20	20	25
A 50 3_89.5	89.5	3.7	4.1	3.7	4.2	3.7	4.7	18	20	20	25
A 50 3_99.5	99.5	3.4	3.9	3.5	4.0	3.4	4.4	18	20	20	25
A 50 3_109.4	109.4	3.4	3.9	3.5	4.0	3.4	4.4	18	20	20	25
A 50 3_118.0	118.0	3.3	3.8	3.4	4.0	3.3	4.3	—	—	—	—
A 50 3_129.7	129.7	3.3	3.8	3.4	4.0	3.3	4.3	—	—	—	—
A 50 3_140.6	140.6	3.2	3.7	3.2	3.7	3.2	4.2	—	—	—	—
A 50 3_154.6	154.6	3.2	3.7	3.2	3.7	3.2	4.2	—	—	—	—
A 50 3_173.4	173.4	3.1	3.6	3.1	3.6	3.0	4.0	—	—	—	—
A 50 3_190.6	190.6	3.0	3.5	3.1	3.6	3.0	4.0	—	—	—	—

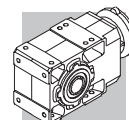
Para los valores de los momentos de inercia correspondientes a los reductores de 4 etapas, consultar con nuestro Servicio Técnico.



A 55

	i	J (•10 ⁻⁴) [kgm ²]										
			 IEC									
			63	71	80	90	100	112	132	160	180	
A 55 2_4.9	4.9	61	—	—	—	—	—	—	77	123	120	70
A 55 2_6.4	6.4	41	—	—	—	—	—	—	57	103	100	50
A 55 2_8.5	8.5	26	—	—	—	—	—	—	42	88	85	35
A 55 2_10.4	10.4	19	—	—	—	—	—	—	35	81	78	28
A 55 2_13.1	13.1	12	—	—	14	14	17	17	28	74	72	21
A 55 2_15.7	15.7	8.9	—	—	11	11	14	14	25	71	68	18
A 55 2_19.2	19.2	6.2	—	—	8.6	8.5	11	11	23	68	66	15
A 55 3_23.8	23.8	11	—	—	13	13	16	16	27	73	70	20
A 55 3_29.9	29.9	7.9	—	—	10	10	13	13	24	70	67	17
A 55 3_40.3	40.3	5.3	—	—	7.8	7.6	10	10	22	68	65	14
A 55 3_51.0	51.0	3.6	—	—	6.0	5.9	8.6	8.6	20	66	63	13
A 55 3_64.3	64.3	2.6	3.1	3.0	5.1	5.0	7.7	7.7	19	65	62	12
A 55 3_79.5	79.5	2.0	2.4	2.4	4.5	4.4	7.1	7.1	18	64	62	11
A 55 3_101.4	101.4	1.3	1.8	1.8	3.8	3.7	6.5	6.5	18	64	61	10
A 55 3_123.9	123.9	1.0	1.5	1.5	3.6	3.4	6.2	6.2	17	63	61	10
A 55 3_132.7	132.7	0.71	1.4	1.4	3.5	3.3	6.1	6.1	—	—	—	9.5
A 55 3_146.8	146.8	0.66	1.4	1.4	3.4	3.3	6.0	6.0	—	—	—	9.4
A 55 3_160.4	160.4	0.58	1.3	1.3	3.3	3.2	6.0	6.0	—	—	—	9.4
A 55 3_175.0	175.0	0.50	1.2	1.2	3.3	3.1	5.9	5.9	—	—	—	9.3
A 55 3_194.2	194.2	0.43	1.2	1.2	3.2	3.1	5.8	5.8	—	—	—	9.2

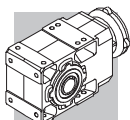
Para los valores de los momentos de inercia correspondientes a los reductores de 4 etapas, consultar con nuestro Servicio Técnico.



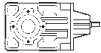
A 55

	i	J (•10 ⁻⁴) [kgm ²]									
		 SERVO									
		80B 95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 55 2_4.9	4.9	—	—	—	—	—	—	78	80	77	82
A 55 2_6.4	6.4	—	—	—	—	—	—	58	60	57	62
A 55 2_8.5	8.5	—	—	—	—	—	—	43	45	42	47
A 55 2_10.4	10.4	—	—	—	—	—	—	36	38	35	40
A 55 2_13.1	13.1	—	—	14	15	14	15	29	31	28	33
A 55 2_15.7	15.7	—	—	11	12	11	12	26	28	25	30
A 55 2_19.2	19.2	—	—	8.6	9.1	8.5	9.5	23	26	23	28
A 55 3_23.8	23.8	—	—	13	14	13	14	28	30	27	32
A 55 3_29.9	29.9	—	—	10	11	10	11	25	27	24	29
A 55 3_40.3	40.3	—	—	7.8	8.3	7.6	8.6	22	25	22	27
A 55 3_51.0	51.0	—	—	6.0	6.5	5.9	6.9	21	23	20	25
A 55 3_64.3	64.3	5.4	5.9	5.1	5.6	5.0	6.0	20	22	19	24
A 55 3_79.5	79.5	4.8	5.3	4.5	5.0	4.4	5.4	19	21	18	23
A 55 3_101.4	101.4	4.1	4.6	3.8	4.3	3.7	4.7	18	21	18	23
A 55 3_123.9	123.9	3.8	4.3	3.6	4.1	3.4	4.4	18	20	17	22
A 55 3_132.7	132.7	3.5	4.0	3.5	4.0	3.3	4.3	—	—	—	—
A 55 3_146.8	146.8	3.5	3.9	3.4	3.9	3.3	4.3	—	—	—	—
A 55 3_160.4	160.4	3.4	3.8	3.3	3.8	3.2	4.2	—	—	—	—
A 55 3_175.0	175.0	3.3	3.8	3.3	3.8	3.1	4.1	—	—	—	—
A 55 3_194.2	194.2	3.3	3.7	3.2	3.7	3.1	4.1	—	—	—	—

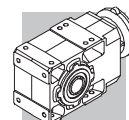
Para los valores de los momentos de inercia correspondientes a los reductores de 4 etapas, consultar con nuestro Servicio Técnico.



A 60

	i	J (•10 ⁻⁴) [kgm ²]										
			 IEC									
			63	71	80	90	100	112	132	160	180	
A 60 2_7.9	7.9	36	—	—	—	—	—	—	54	114	112	57
A 60 2_10.3	10.3	23	—	—	25	25	27	27	41	101	99	44
A 60 2_12.7	12.7	16	—	—	19	19	20	20	35	94	92	37
A 60 2_16.7	16.7	9.4	—	—	12	12	14	14	28	88	85	30
A 60 2_20.6	20.6	6.7	—	—	9.6	9.5	11	11	26	85	83	28
A 60 3_25.7	25.7	14	—	—	17	17	18	18	33	92	90	35
A 60 3_27.9	27.9	14	—	—	17	17	18	18	33	92	90	35
A 60 3_31.7	31.7	10	—	—	13	13	15	15	29	89	86	31
A 60 3_34.3	34.3	10	—	—	13	13	14	14	29	89	86	31
A 60 3_41.7	41.7	6.1	—	—	9.0	8.9	10	10	25	84	82	27
A 60 3_45.2	45.2	6.1	—	—	8.9	8.9	10	10	25	84	82	27
A 60 3_51.3	51.3	5.0	—	—	7.4	7.4	8.7	8.7	24	83	81	26
A 60 3_55.6	55.6	4.5	—	—	7.4	7.3	8.6	8.6	23	83	81	26
A 60 3_65.0	65.0	3.2	4.7	4.6	6.1	6.0	7.3	7.3	22	82	79	24
A 60 3_70.4	70.4	3.2	4.7	4.6	6.1	6.0	7.3	7.3	22	81	79	24
A 60 3_79.7	79.7	2.1	3.6	3.5	5.0	4.9	6.2	6.2	21	80	78	23
A 60 3_86.4	86.4	2.1	3.6	3.5	5.0	4.9	6.2	6.2	21	80	78	23
A 60 3_99.5	99.5	2.0	3.5	3.4	4.3	4.3	5.6	5.6	20	80	78	23
A 60 3_107.8	107.8	1.5	3.0	2.9	4.3	4.3	5.6	5.6	20	80	78	22
A 60 3_123.0	123.0	1.1	2.6	2.5	4.0	3.9	5.2	5.2	20	79	77	22
A 60 3_133.3	133.3	1.1	2.6	2.5	3.9	3.9	5.2	5.2	20	79	77	22
A 60 3_144.0	144.0	0.80	2.3	2.2	3.7	3.6	5.0	5.0	—	—	—	22
A 60 3_156.0	156.0	0.80	2.3	2.2	3.7	3.6	5.0	5.0	—	—	—	22
A 60 3_171.5	171.5	0.60	2.1	2.0	3.5	3.4	4.7	4.7	—	—	—	22
A 60 3_185.8	185.8	0.60	2.1	2.0	3.5	3.4	4.7	4.7	—	—	—	22

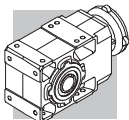
Para los valores de los momentos de inercia correspondientes a los reductores de 4 etapas, consultar con nuestro Servicio Técnico.



A 60

	i	J (•10 ⁻⁴) [kgm ²]									
		 SERVO									
		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
A 60 2_7.9	7.9	—	—	—	—	—	—	53	55	54	59
A 60 2_10.3	10.3	—	—	25	26	25	26	40	42	41	46
A 60 2_12.7	12.7	—	—	19	20	19	20	33	35	35	40
A 60 2_16.7	16.7	—	—	12	13	12	13	26	29	28	33
A 60 2_20.6	20.6	—	—	9.6	10	9.5	10	24	26	26	31
A 60 3_25.7	25.7	—	—	17	18	17	18	31	33	33	38
A 60 3_27.9	27.9	—	—	17	18	17	18	31	33	33	38
A 60 3_31.7	31.7	—	—	13	14	13	14	27	29	29	34
A 60 3_34.3	34.3	—	—	13	14	13	14	27	29	29	34
A 60 3_41.7	41.7	—	—	9.0	9.5	8.9	9.9	23	26	25	30
A 60 3_45.2	45.2	—	—	8.9	9.4	8.9	9.9	23	26	25	30
A 60 3_51.3	51.3	—	—	7.4	7.9	7.4	8.4	22	24	24	29
A 60 3_55.6	55.6	—	—	7.4	7.9	7.3	8.3	21	24	23	28
A 60 3_65.0	65.0	6.0	6.5	6.1	6.6	6.0	7.0	20	23	22	27
A 60 3_70.4	70.4	6.0	6.5	6.1	6.6	6.0	7.0	20	23	22	27
A 60 3_79.7	79.7	4.9	5.4	5.0	5.5	4.9	5.9	19	22	21	26
A 60 3_86.4	86.4	4.9	5.4	5.0	5.5	4.9	5.9	19	22	21	26
A 60 3_99.5	99.5	4.8	5.3	4.3	4.8	4.3	5.3	19	21	20	25
A 60 3_107.8	107.8	4.3	4.8	4.3	4.8	4.3	5.3	18	21	20	25
A 60 3_123.0	123.0	3.9	4.4	4.0	4.5	3.9	4.9	18	21	20	25
A 60 3_133.3	133.3	3.9	4.4	3.9	4.4	3.9	4.9	18	21	20	25
A 60 3_144.0	144.0	3.6	4.1	3.7	4.2	3.6	4.6	—	—	—	—
A 60 3_156.0	156.0	3.6	4.1	3.7	4.2	3.6	4.6	—	—	—	—
A 60 3_171.5	171.5	3.4	3.9	3.5	4.0	3.4	4.4	—	—	—	—
A 60 3_185.8	185.8	3.4	3.9	3.5	4.0	3.4	4.4	—	—	—	—

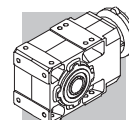
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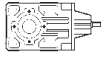
A 70

	i	J (•10-4) [kgm ²]											
			 IEC										
			80	90	100	112	132	160	180	200	225	250	
A 70 3_9.4	9.4	—	—	—	—	—	—	187	185	194	—	—	150
A 70 3_10.2	10.2	—	—	—	—	—	—	183	180	190	—	—	146
A 70 3_12.1	12.1	—	—	—	—	—	—	150	148	157	—	—	113
A 70 3_13.1	13.1	—	—	—	—	—	—	147	145	154	—	—	111
A 70 3_15.4	15.4	45	—	—	—	—	64	124	121	161	—	—	87
A 70 3_16.7	16.7	44	—	—	—	—	63	122	120	129	—	—	85
A 70 3_19.7	19.7	30	—	—	—	—	49	109	107	—	—	—	72
A 70 3_21.3	21.3	29	—	—	—	—	48	108	106	—	—	—	71
A 70 3_23.5	23.5	—	—	—	—	—	—	116	114	123	—	—	79
A 70 3_27.8	27.8	—	—	—	—	—	—	118	116	125	—	—	81
A 70 3_30.1	30.1	—	—	—	—	—	—	117	115	124	—	—	81
A 70 3_35.4	35.4	26	—	—	—	—	45	104	102	111	—	—	67
A 70 3_38.4	38.4	25	—	—	—	—	44	104	101	111	—	—	67
A 70 3_45.2	45.2	18	—	—	—	—	37	97	94	—	—	—	59
A 70 3_49.0	49.0	18	—	—	—	—	37	96	94	—	—	—	59
A 70 3_53.2	53.2	15	—	—	—	—	34	93	91	—	—	—	56
A 70 3_57.7	57.7	15	—	—	—	—	34	93	91	—	—	—	56
A 70 3_66.9	66.9	9.7	12	12	13	13	29	88	86	—	—	—	51
A 70 3_72.5	72.5	9.6	12	12	13	13	28	88	86	—	—	—	51
A 70 3_79.3	79.3	6.8	9.4	9.3	11	11	26	85	83	—	—	—	48
A 70 3_85.9	85.9	6.7	9.3	9.3	11	11	26	85	83	—	—	—	48
A 70 3_96.2	96.2	5.4	8.2	8.2	9.4	9.4	24	84	82	—	—	—	47
A 70 3_104.2	104.2	5.4	8.2	8.1	9.4	9.4	24	84	81	—	—	—	47
A 70 3_120.6	120.6	3.4	6.2	6.2	7.5	7.5	22	82	79	—	—	—	45
A 70 3_130.7	130.7	3.4	6.2	6.2	7.4	7.4	22	82	79	—	—	—	45
A 70 3_141.9	141.9	2.4	5.3	5.2	6.5	6.5	21	81	78	—	—	—	44
A 70 3_153.7	153.7	2.4	5.2	5.2	6.5	6.5	21	81	78	—	—	—	44

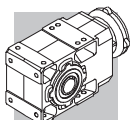
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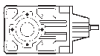
A 80

	i	J (•10 ⁻⁴) [kgm ²]											
			 IEC										
			80	90	100	112	132	160	180	200	225	250	
A 80 3_9.8	9.8	—	—	—	—	—	—	—	320	333	611	—	286
A 80 3_10.7	10.7	—	—	—	—	—	—	—	309	323	601	—	276
A 80 3_12.3	12.3	—	—	—	—	—	—	239	239	253	531	—	205
A 80 3_13.3	13.3	—	—	—	—	—	—	232	233	246	524	—	199
A 80 3_15.5	15.5	—	—	—	—	—	—	187	185	194	478	—	150
A 80 3_16.7	16.7	—	—	—	—	—	—	183	180	190	474	—	150
A 80 3_19.3	19.3	69	—	—	—	—	88	147	145	154	440	—	111
A 80 3_20.9	20.9	66	—	—	—	—	85	145	142	152	437	—	108
A 80 3_22.6	22.6	—	—	—	—	—	—	—	205	219	496	—	171
A 80 3_24.5	24.5	—	—	—	—	—	—	—	203	217	494	—	169
A 80 3_28.2	28.2	—	—	—	—	—	—	165	166	179	457	—	132
A 80 3_30.6	30.6	—	—	—	—	—	—	164	164	178	456	—	130
A 80 3_35.5	35.5	—	—	—	—	—	—	140	138	147	432	—	104
A 80 3_38.5	38.5	—	—	—	—	—	—	140	137	147	431	—	103
A 80 3_44.5	44.5	39	—	—	—	—	58	118	115	125	410	—	81
A 80 3_48.2	48.2	39	—	—	—	—	58	117	115	124	410	—	90
A 80 3_55.2	55.2	29	—	—	—	—	48	108	105	136	399	—	70
A 80 3_59.8	59.8	29	—	—	—	—	48	107	105	136	399	—	70
A 80 3_66.8	66.8	22	—	—	—	—	41	101	98	128	391	—	63
A 80 3_72.4	72.4	22	—	—	—	—	41	100	98	128	391	—	63
A 80 3_82.3	82.3	15	17	17	18	18	34	94	91	120	384	—	56
A 80 3_89.2	89.2	15	17	17	18	18	34	93	91	120	386	—	56
A 80 3_96.0	96.0	14	16	16	17	17	32	92	90	119	382	—	55
A 80 3_104.0	104.0	13	16	16	17	17	32	92	89	119	382	—	55
A 80 3_116.0	116.0	9.1	12	12	13	13	28	87	85	—	—	—	50
A 80 3_125.6	125.6	9.1	12	12	13	13	28	87	85	—	—	—	50
A 80 3_144.7	144.7	5.4	8.3	8.2	10	10	24	84	82	—	—	—	47
A 80 3_156.8	156.8	5.4	3.0	2.9	4.2	4.2	19	78	76	—	—	—	41

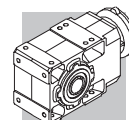
Para los valores de los momentos de inercia correspondientes a los reductores de 4 etapas, consultar con nuestro Servicio Técnico.



A 90

	i	J (•10 ⁻⁴) [kgm ²]											
			80	90	100	112	132	160	180	200	225	250	
A 90 3_9.7	9.7	—	—	—	—	—	—	—	597	611	889	918	898
A 90 3_10.5	10.5	—	—	—	—	—	—	—	575	589	867	896	876
A 90 3_12.6	12.6	—	—	—	—	—	—	—	402	416	693	723	703
A 90 3_13.7	13.7	—	—	—	—	—	—	—	389	403	681	710	690
A 90 3_15.6	15.6	—	—	—	—	—	—	—	306	319	597	627	607
A 90 3_16.9	16.9	—	—	—	—	—	—	—	297	311	589	618	598
A 90 3_19.4	19.4	—	—	—	—	—	—	236	234	243	527	559	530
A 90 3_21.0	21.0	—	—	—	—	—	—	231	228	238	522	553	524
A 90 3_22.3	22.3	—	—	—	—	—	—	—	326	340	618	647	627
A 90 3_24.1	24.1	—	—	—	—	—	—	—	322	336	614	643	623
A 90 3_29.1	29.1	—	—	—	—	—	—	—	243	257	535	564	544
A 90 3_31.5	31.5	—	—	—	—	—	—	—	241	254	532	562	542
A 90 3_35.8	35.8	—	—	—	—	—	—	—	201	215	493	522	502
A 90 3_38.8	38.8	—	—	—	—	—	—	—	200	213	491	521	500
A 90 3_44.6	44.6	—	—	—	—	—	—	169	166	176	460	491	462
A 90 3_48.3	48.3	—	—	—	—	—	—	168	165	175	459	490	461
A 90 3_55.0	55.0	66	—	—	—	—	85	144	142	151	437	468	438
A 90 3_59.6	59.6	66	—	—	—	—	84	144	141	151	436	468	437
A 90 3_68.8	68.8	48	—	—	—	—	67	126	124	154	418	449	416
A 90 3_74.5	74.5	47	—	—	—	—	66	126	123	154	417	449	416
A 90 3_80.4	80.4	43	—	—	—	—	62	121	119	149	412	443	412
A 90 3_87.1	87.1	43	—	—	—	—	62	121	119	148	412	443	412
A 90 3_98.6	98.6	28	30	30	32	32	47	106	104	134	397	428	399
A 90 3_106.8	106.8	28	30	30	31	31	47	106	104	133	397	428	399
A 90 3_116.9	116.9	23	25	25	26	26	41	101	99	128	391	423	394
A 90 3_126.6	126.6	22	25	25	26	26	41	101	98	128	391	422	394
A 90 3_139.4	139.4	15	17	17	19	19	33	93	91	—	—	—	386
A 90 3_151.0	151.0	14	3.0	3.0	4.3	4.3	19	79	76	—	—	—	372

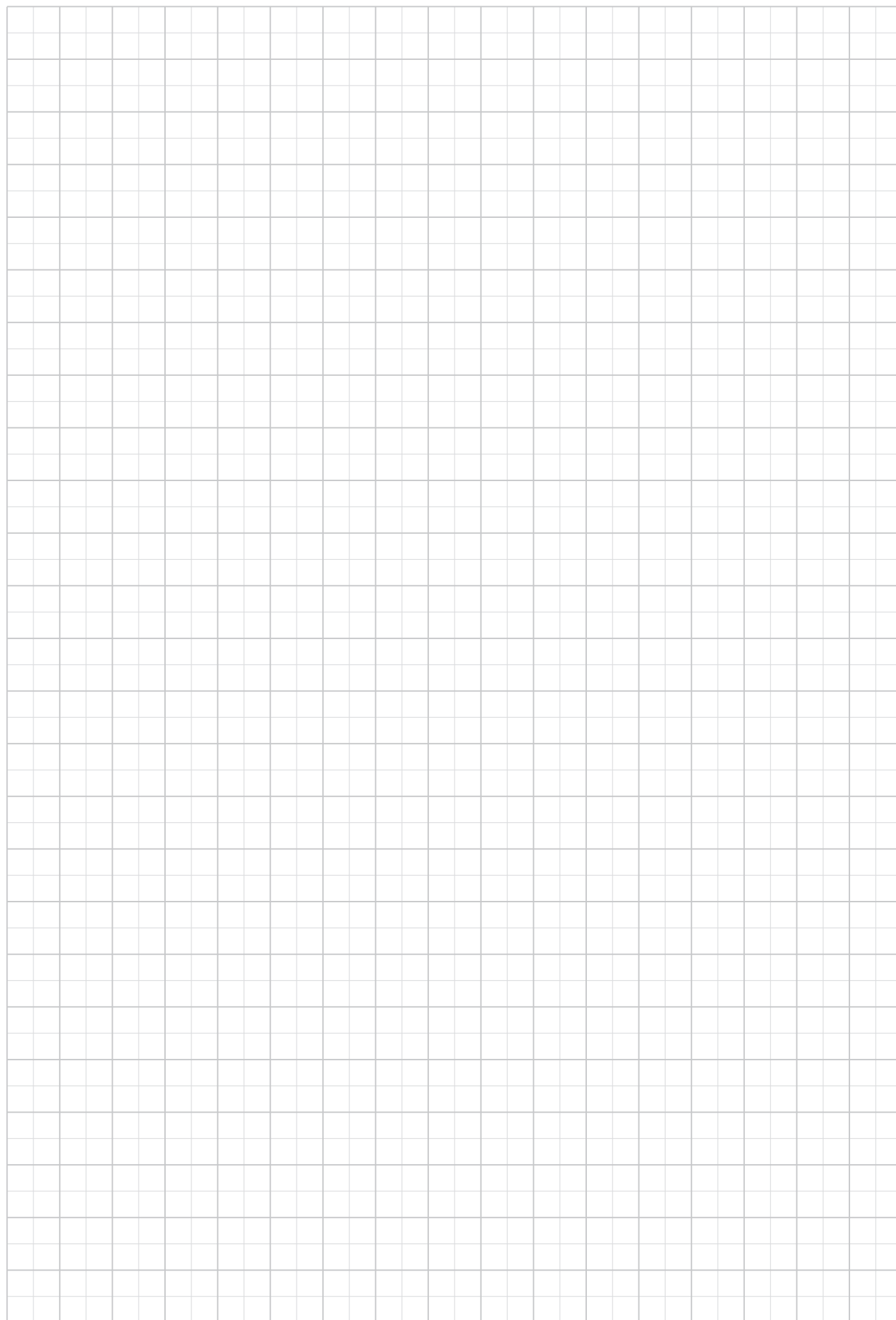
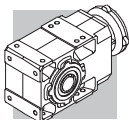
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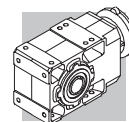


42 RELACIONES EXACTAS

i _N	A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 55	A 60	A 70	A 80	A 90
5.0								4.94505				
5.6	5.46559	5.46559	5.35117	5.41311	5.41311	5.24476						
6.3	6.33484	6.33484	6.53846	6.41026	6.41026			6.41026				
7.1	7.21154	7.21154	7.28745	7.02341	7.02341	7.12251						
8.0	8.51648	8.51648	8.37104	8.46154	8.46154	8.33333	7.73684	8.46154	7.86420			
9.0	9.61538	9.61538	9.37500	9.31174	9.31174	9.19732				9.43946		9.67545
10.0	10.55639	10.55639	10.33540	10.45503	10.63348	10.12987	9.73401	10.35503	10.31579	10.22609	9.83278	10.48174
11.2				11.77885	11.77885	11.74089				12.08027	10.65217	12.64214
12.5	12.30769	12.30769	11.96581		13.06878		13.10700	13.07692	12.70370	13.08696	12.27130	13.69565
14.0	13.92857	13.92857	14.07519	13.56522	15.47619	13.75661				15.40468	13.29391	15.57512
16.0	16.44898	16.44898	16.16807	16.34286	16.95652	16.09524	16.57005	15.68047	16.73663	16.68841	15.45151	16.87304
18.0	18.57143	18.57143	18.10714	17.98496		17.76398					19.33779	19.38462
20.0	21.35714	21.35714	21.22449	20.53782	20.42857		20.91813	19.23077	20.5942	19.66555	20.94928	21.00000
22.4	23.77143	23.77143	23.11111	22.75000	22.48120	22.67669				21.30435	22.61538	22.25354
25.0	25.46939	25.46939	26.46429	26.53061	25.67227		24.04795	23.79021	25.71012	23.52000	24.50000	24.10800
28.0	28.57143	28.57143	29.21905	29.30159	28.43750	28.32143	26.43733			27.85263	27.78462	29.07692
31.5	32.19048	32.19048	31.30612	33.42857	33.16327		32.38095	29.93134	31.66154	30.10000	30.57600	31.50000
35.5	35.11688	35.11688	35.42857	36.64762	36.62698	35.90476	35.59829		34.30000	35.43077	35.53846	35.82277
40.0	40.85714	40.85714	39.61905	39.26531	41.78571	45.06667	40.93645	40.30303	41.71282	38.38333	38.50000	38.80800
45.0	45.39683	45.39683	43.22078	43.42857	45.80952	48.28571	45.00386		45.18889	45.23077	44.47692	44.58462
50.0	51.25714	51.25714	48.28571	48.28571	49.08163	53.14286	51.67843	50.95166	51.32709	49.00000	48.18333	48.30000
56.0	58.60317	58.60317	53.65079	52.67532	54.28571	58.80952	56.81314		55.60435	53.23314	55.18154	55.03077
63.0	65.92857	65.92857	63.14286	59.42857	60.35714	64.15584	63.89011	64.32168	64.98947	66.94154	66.80237	59.61667
71.0			70.98413	66.03175	65.84416	71.31429	70.23817		70.40526	72.52000	72.36923	68.75077
80.0	76.40816	76.40816	79.85714	76.51429	74.28571	79.23810	81.45055	79.52098	79.71923	79.32781	82.32000	80.37160
90.0	91.61905	91.61905	92.32653	86.66667	82.53968	92.76828	89.54339		86.36250	85.93846	89.18000	87.06923
100.0				97.50000	95.64286		99.53407	101.37762	99.50769	96.21818	104.03077	98.60308
112.2			109.16518	109.07029	105.54155	115.86039	109.42367	123.88531	107.80000	104.23636	115.95524	116.90414
125.0			120.52857	120.46208	116.90972		129.67046	132.73427	123.02769	120.61538	125.61818	126.64615
140.0			146.14286	137.42857	136.33787	146.88312	140.61938	146.80796	144.04260	141.86014	144.73846	139.39301
160.0			163.42857	161.42404	150.57760		154.59118	160.43706	171.46573	169.75499	156.80000	166.12694
180.0			178.28571	178.53968	171.78571	184.36364	173.36264	175.02225	185.75455	183.90123	171.29752	179.97085
200.0			199.17857	198.50794	201.78005	197.53247	190.58777	194.19860	208.73017		214.73193	209.01044
225.0			221.30952	216.55411	223.17460	217.40260	231.98700	208.05260	226.12435	220.25418	232.62626	226.42797
250.0			260.46429	244.31746	248.13492	240.58442	260.88462		264.29053	238.60870		
280.0			292.80952	271.46384	270.69264	291.74026	286.80584	262.64685	286.31474	292.01619	277.28428	281.43590
315.0			329.41071	314.55873	305.39683	324.15584	332.58974		324.19154	316.35088	300.39130	304.88889
355.0				356.29630	339.32981	376.83117	365.63552	324.71066	351.20750	369.38462	353.96864	355.79521
400.0			380.84694	400.83333	393.19841		406.43077		404.66462	400.16667	383.46603	385.44482
450.0							446.81331	413.95862	438.38667	475.76068	442.07937	449.15802
500.0							481.63314	505.86503	500.31262	515.40741	478.91932	486.58785
560.0							574.19580	541.99825	585.77325	595.03590	560.45035	555.29467
630.0							631.24731	655.11801	634.58769	644.62222	607.15455	601.56923
710.0							707.89744	714.67419	697.29399	705.13609	703.46182	707.91953
800.0							778.23340	792.97762	755.40182	855.27273	829.52598	766.91282
900.0										926.54545	898.65315	865.09065
1000.0										1072.13675	1001.43166	1025.1594
1125.0										1161.48148	1084.88430	1110.58935
1250.0										1242.33846	1236.85594	1222.17967
1400.0										1345.86667	1339.92727	1324.02797
1600.0										1583.07692	1557.66545	1506.76450
1800.0										1715.00000		1632.32821

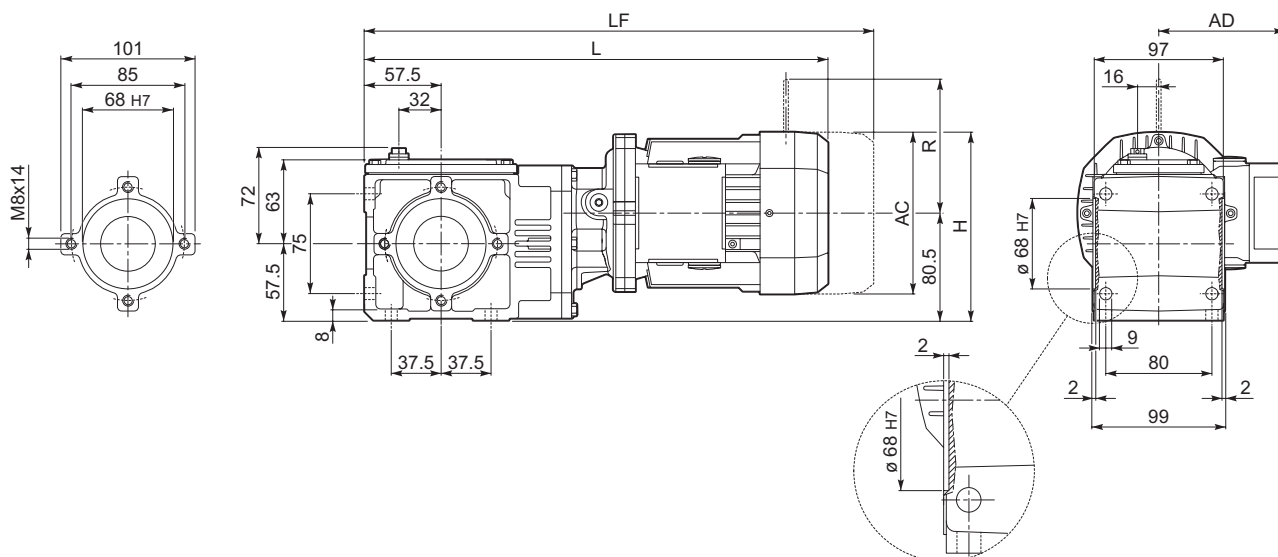






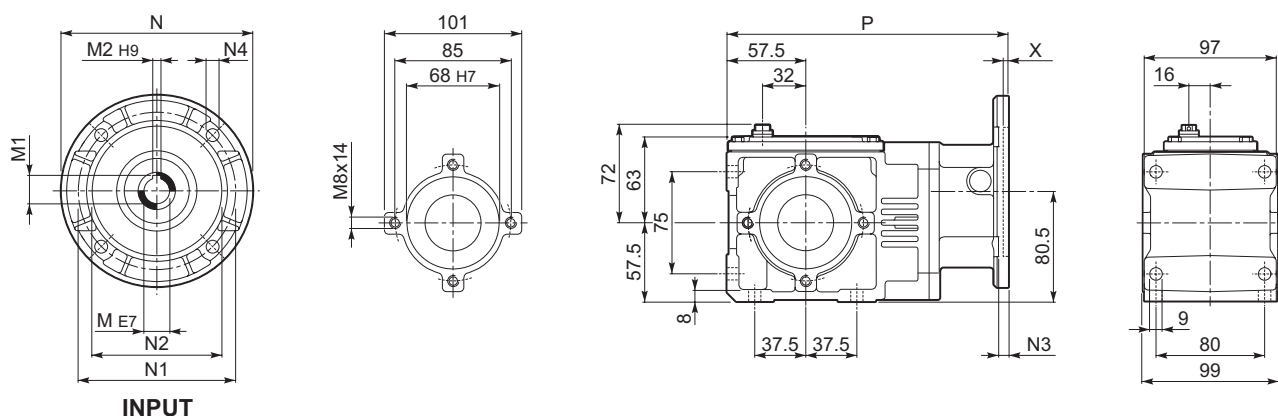
43 DIMENSIONES

A 05...M



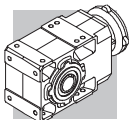
			AC	H	L	AD		LF		R	AD	R	AD
A 05 2	S05	M05	121	141	360.5	95	7.5	426.5	9	96	122	116	95
A 05 2	S1	M1	138	149.5	389.5	108	11.5	450.5	14	103	135	124	108
A 05 2	S2	M2S	156	158.5	418.5	119	15.5	488.5	19	129	146	134	119

A 05...P(IEC)

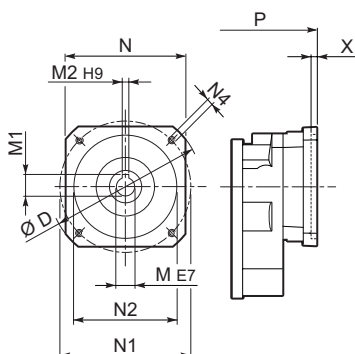
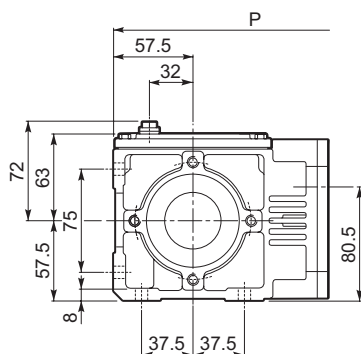


		M	M1	M2	N	N1	N2	N3	N4	X	P	
A 05 2	P63	11	12.8	4	140	115	95	7	9.5	3.5	206	5
A 05 2	P71	14	16.3	5	160	130	110	7	9.5	4	213	5
A 05 2	P80	19	20.8#	6	200	165	130	7	11.5	4	223	5.5

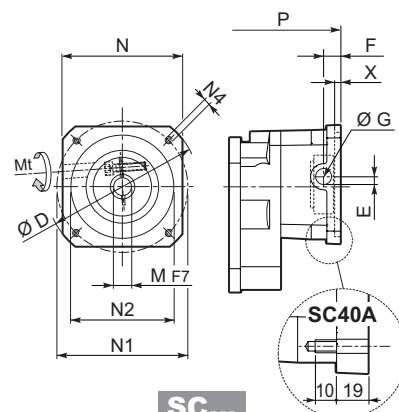
Chaveta rebajada suministrada por Bonfiglioli.



A 05...SK / SC



SK...

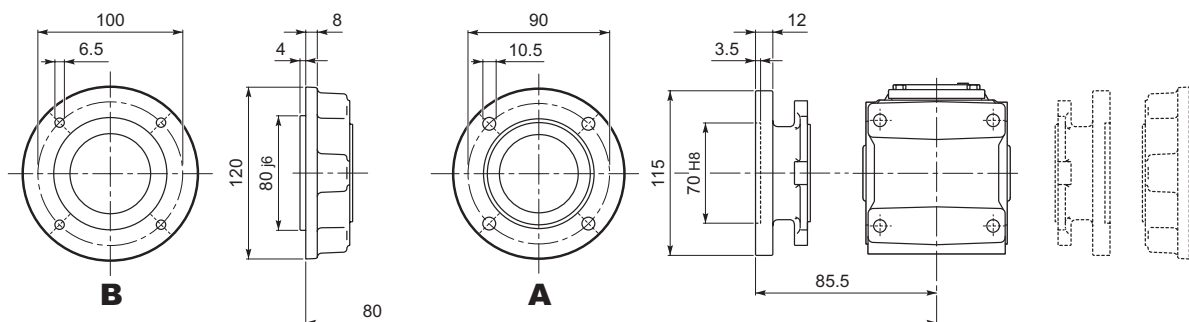


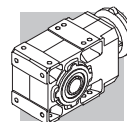
SC...

		D	M	M1	M2	N	N1	N2	N4	X	P	kg
A 05 2	SK40A	74	9	10.4	3	55	63	40	M5x10	3	207.5	5
A 05 2	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	206	5
A 05 2	SK60B	102	14	16.3	5	82	75	60	M5x10	4	213	5
A 05 2	SK80A	115	14	16.3	5	90	100	80	M6x12	4	213	5

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	kg
A 05 2	SC40A	M5 15	74	10.5	9.5	12.5	9	55	63	40	M5x10	3	226.5	6
A 05 2	SC60A	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	233	6
A 05 2	SC60B	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	233	6
A 05 2	SC80A	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	233	6

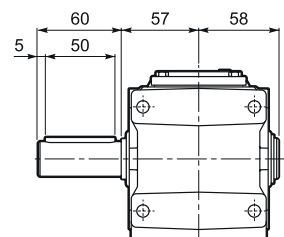
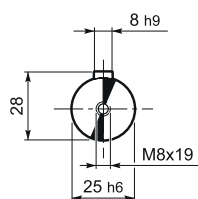
A 05...F...



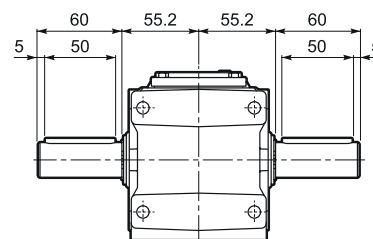
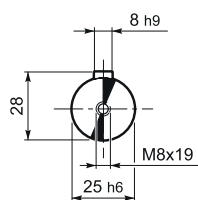


A 05

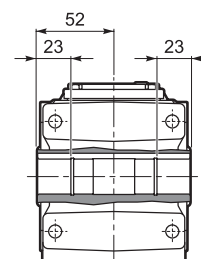
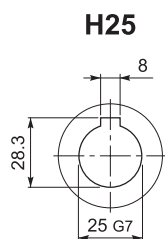
A 05...UR



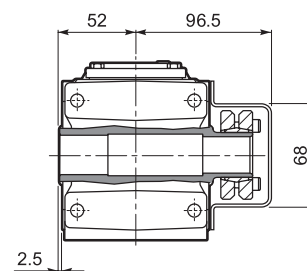
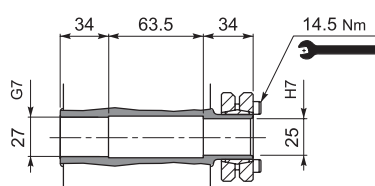
A 05...UD

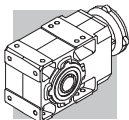


A 05...UH

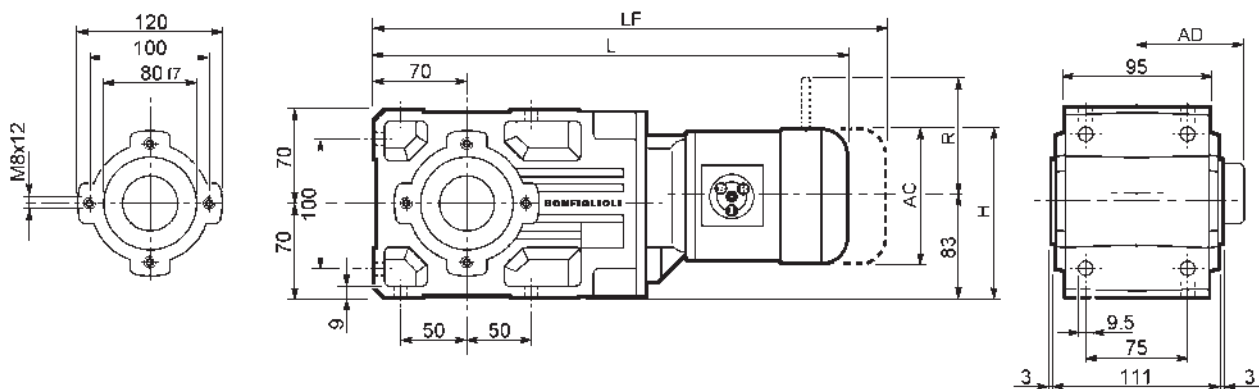


A 05...US

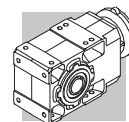




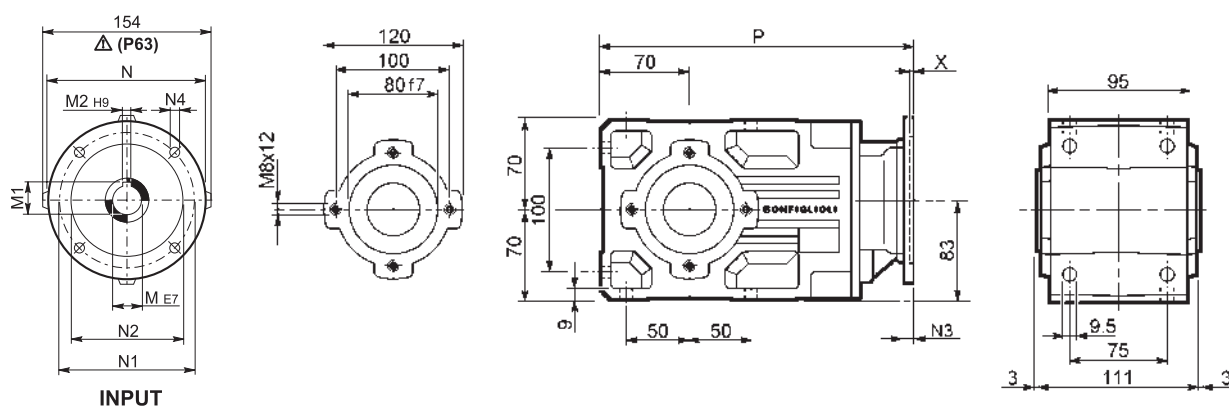
A 10...M



									M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD			LF		R	AD	R	AD
														
A 10 2	S05	M05	121	143.5	408.5	95	12		474.5	14	96	122	116	95
A 10 2	S1	M1	138	152	437.5	108	14		498.5	17	103	135	124	108
A 10 2	S2	M2S	156	161	466.5	119	18		536.5	22	129	146	134	119
A 10 2	S3	M3S	195	180.5	509.5	142	23		605.5	30	160	158	160	142
A 10 2	S3	M3L	195	180.5	541.5	142	30		632.5	37	160	158	160	142

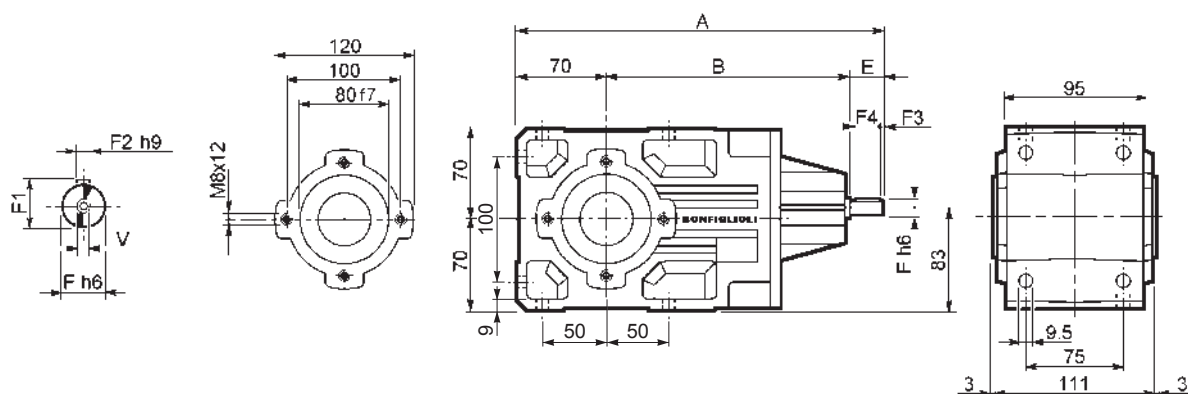


A 10...P(IEC)

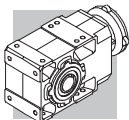


		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 10 2	P63	11	12.8	4	140	115	95	—	M8x10	4	282.5	8
A 10 2	P71	14	16.3	5	160	130	110	—	M8x10	4.5	282.5	9
A 10 2	P80	19	21.8	6	200	165	130	—	M10x14.5	4	302	9
A 10 2	P90	24	27.3	8	200	165	130	—	M10x14.5	4	302	9
A 10 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	312	13
A 10 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	312	13

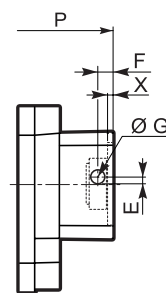
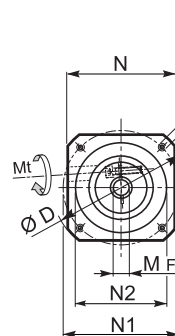
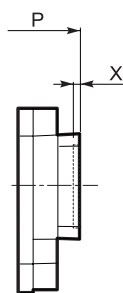
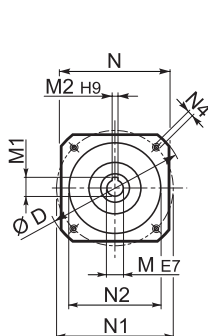
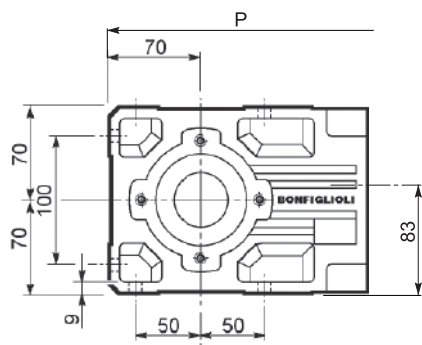
A 10...HS



		A	B	E	F	F1	F2	F3	F4	V	Kg
A 10 2	HS	289.5	179.5	40	16	18	5	2.5	35	M6x16	7.8



A 10...SK / SC



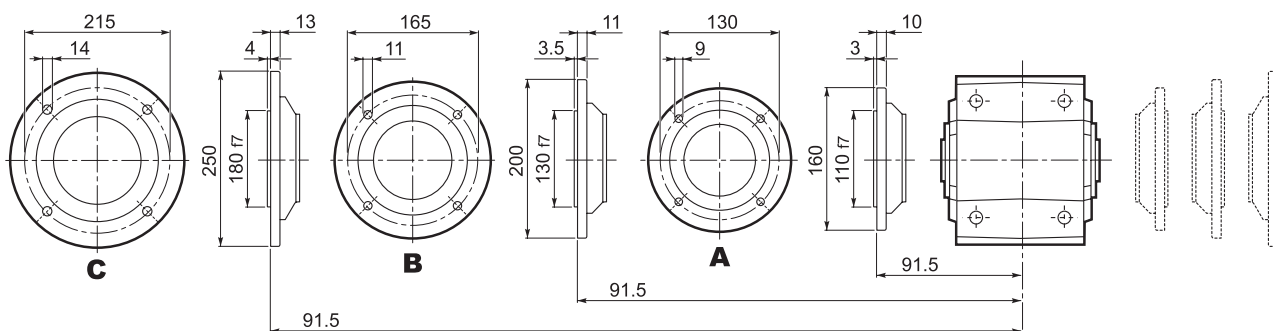
SK...

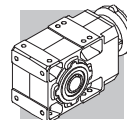
SC...

		D	M	M1	M2	N	N1	N2	N4	X	P	Kg
A 10 2	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	254	8
A 10 2	SK60B	102	14	16.3	5	82	75	60	M5x10	4	261	8
A 10 2	SK80A	115	14	16.3	5	90	100	80	M6x12	4	261	8
A 10 2	SK80C	120	19	21.8	6	96	100	80	M6x12	4	302	9
A 10 2	SK95A	130	14	16.3	5	102	115	95	M8x12	4	302	9
A 10 2	SK95B	130	19	21.8	6	102	115	95	M8x12	4	302	9
A 10 2	SK95C	130	24	27.3	8	102	115	95	M8x12	4	302	9
A 10 2	SK110A	150	19	21.8	6	120	130	110	M8x12	5	302	9
A 10 2	SK110B	150	24	27.3	8	120	130	110	M8x12	5	302	9

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg
A 10 2	SC60A	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	281	9
A 10 2	SC60B	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	281	9
A 10 2	SC80A	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	281	9
A 10 2	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	325.5	10
A 10 2	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	325.5	10
A 10 2	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	325.5	10
A 10 2	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	325.5	10
A 10 2	SC110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	325.5	12
A 10 2	SC110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	325.5	12

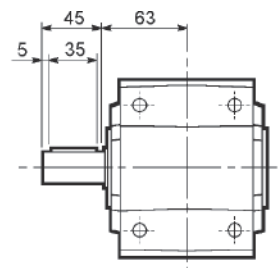
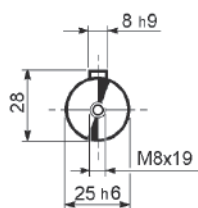
A 10...F...



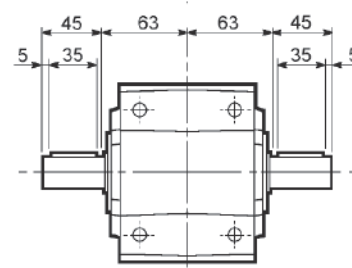
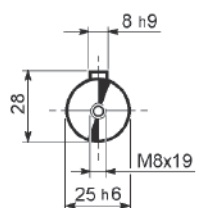


A 10

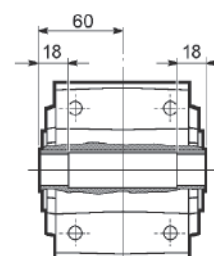
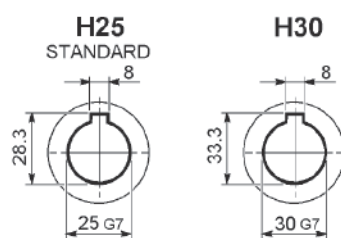
A 10...UR



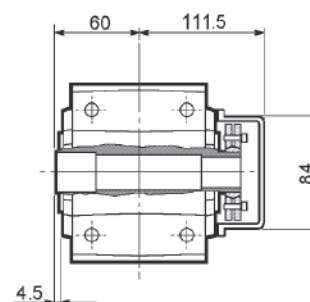
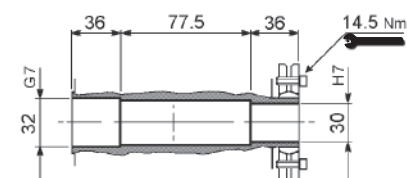
A 10...UD



A 10...UH

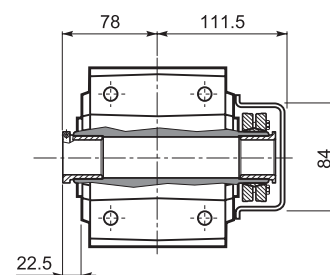
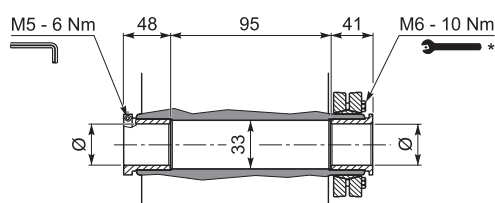


A 10...US

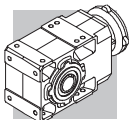


A10...QF

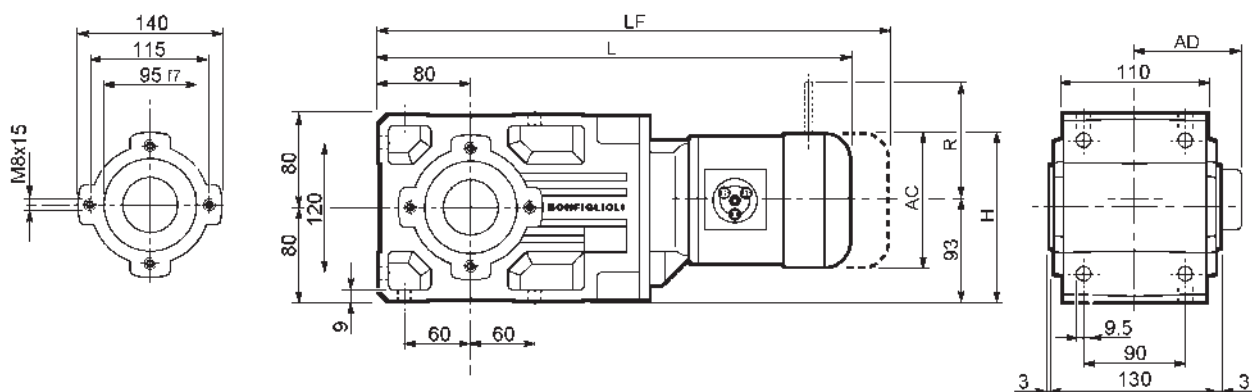
	Ø
QF25	25
QF30	30



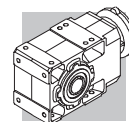
* Atenerse a las INSTRUCCIONES DE MONTAJE suministradas con el reductor.



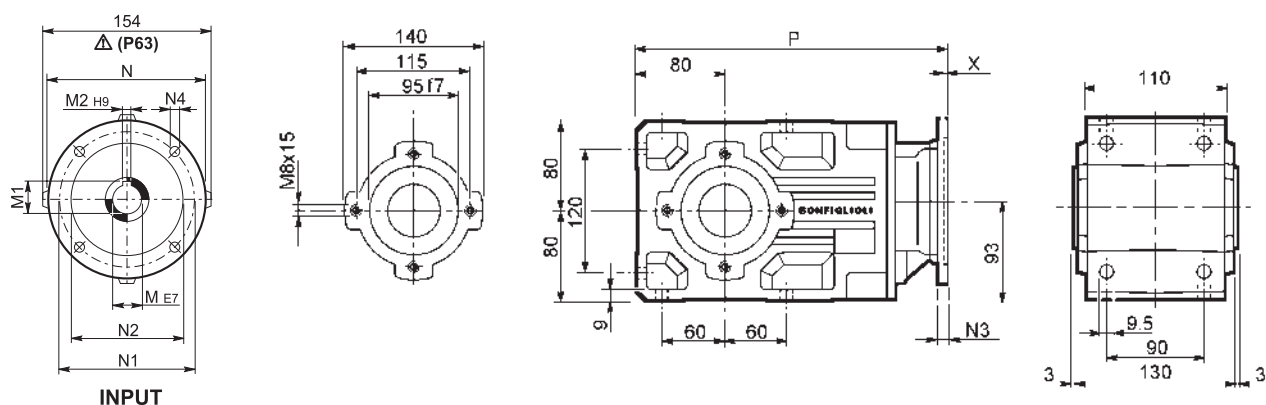
A 20...M



									M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD			LF		R	AD	R	AD
A 20 2	S05	M05	121	143.5	432	95	16		498	18	96	122	116	95
A 20 2	S1	M1	138	152	461	108	18		522	21	103	135	124	108
A 20 2	S2	M2S	156	161	490	119	22		560	26	129	146	134	119
A 20 2	S3	M3S	195	180.5	533	142	27		629	34	160	158	160	142
A 20 2	S3	M3L	195	180.5	565	142	34		656	41	160	158	160	142
A 20 3	S05	M05	121	143.5	457.5	95	16		553.5	18	96	122	116	95
A 20 3	S1	M1	138	152	486.5	108	19		577.5	21	103	135	124	108
A 20 3	S2	M2S	156	161	545.5	119	23		615.5	27	129	146	134	119
A 20 3	S3	M3S	195	180.5	588.5	142	28		684.5	35	160	158	160	142
A 20 3	S3	M3L	195	180.5	620.5	142	35		711.5	42	160	158	160	142

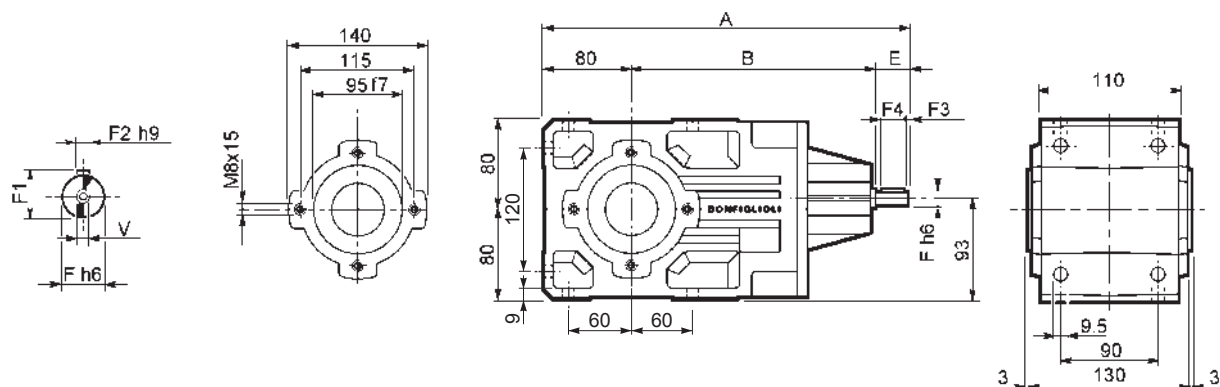


A 20...P(IEC)

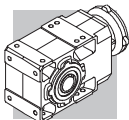


		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 20 2	P63	11	12.8	4	140	115	95	—	M8x19	4	306	12
A 20 2	P71	14	16.3	5	160	130	110	—	M8x16	4.5	306	12
A 20 2	P80	19	21.8	6	200	165	130	—	M10x14.5	4	325.5	13
A 20 2	P90	24	27.3	8	200	165	130	—	M10x14.5	4	325.5	13
A 20 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	335.5	17
A 20 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	335.5	17
A 20 3	P63	11	12.8	4	140	115	95	—	M8x19	4	361.5	13
A 20 3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	361.5	13
A 20 3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	381	14
A 20 3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	381	14
A 20 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	391	18
A 20 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	391	18

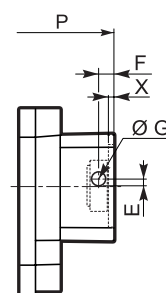
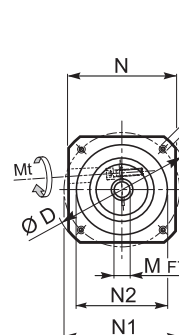
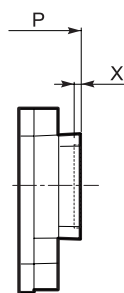
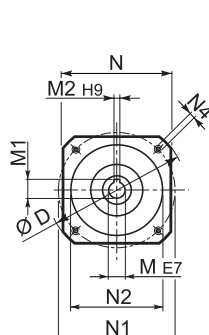
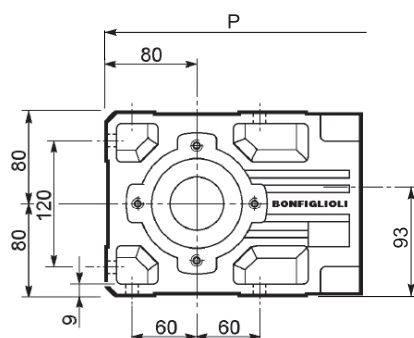
A 20...HS



		A	B	E	F	F1	F2	F3	F4	V	Kg
A 20 2	HS	356	236	40	19	21.5	6	2.5	35	M6x16	11.9
A 20 3		368.5	248.5	40	16	18	5	2.5	35	M6x16	12.2



A 20...SK / SC

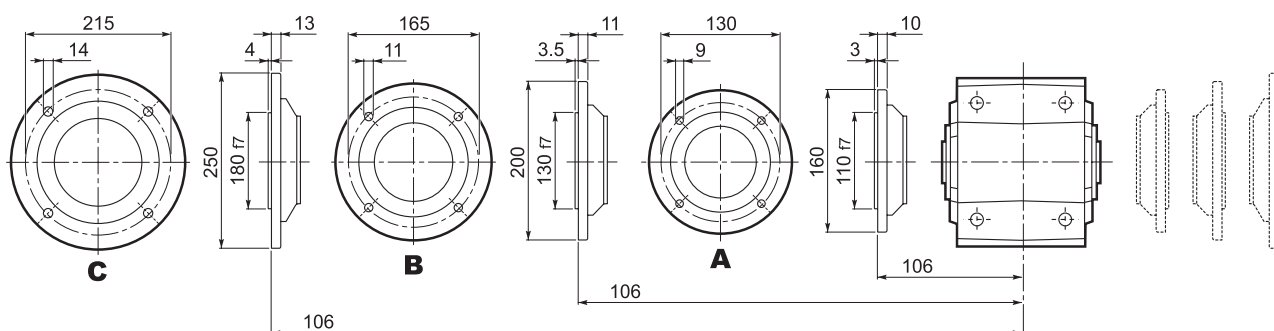
**SK...**

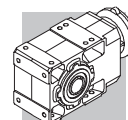
SC...

		D	M	M1	M2	N	N1	N2	N4	X	P 		
											2x 	3x 	
A 20 2/3	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	277.5	333	11/12
A 20 2/3	SK60B	102	14	16.3	5	82	75	60	M5x10	4	284.5	340	12/13
A 20 2/3	SK80A	115	14	16.3	5	90	100	80	M6x12	4	284.5	340	12/13
A 20 2/3	SK80C	120	19	21.8	6	96	100	80	M6x12	4	325.5	381	13/14
A 20 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	325.5	381	13/14
A 20 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	325.5	381	13/14
A 20 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	325.5	381	13/14
A 20 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	325.5	381	13/14
A 20 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	325.5	381	13/14

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		
														 2x	 3x	
A 20 2/3	SC60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	304.5	360	12/13
A 20 2/3	SC60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	304.5	360	13/14
A 20 2/3	SC80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	304.5	360	13/14
A 20 2/3	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	349	404.5	14/15
A 20 2/3	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	349	404.5	14/15
A 20 2/3	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	349	404.5	14/15
A 20 2/3	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	349	404.5	14/15
A 20 2/3	SC110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	349	404.5	15/16
A 20 2/3	SC110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	349	404.5	15/16

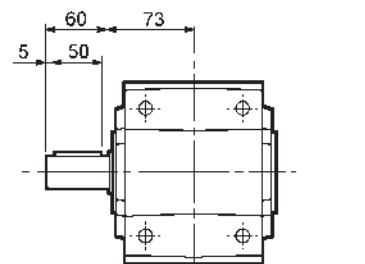
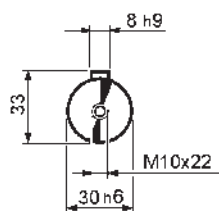
A 20...F...



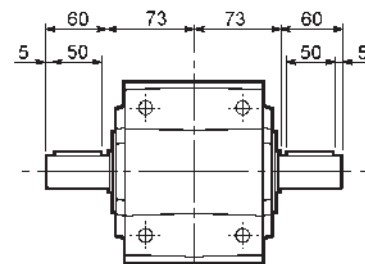
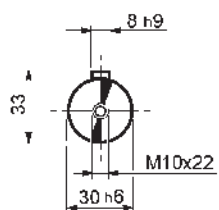


A 20

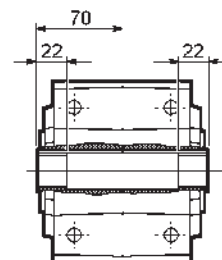
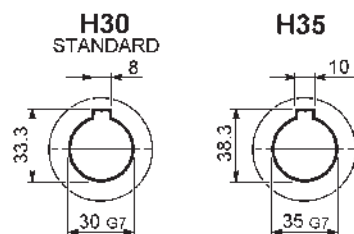
A 20...UR



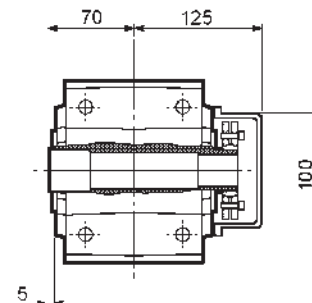
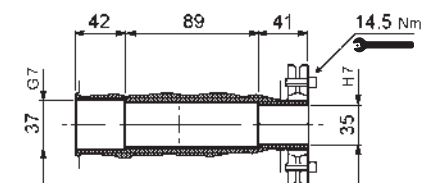
A 20...UD



A 20...UH

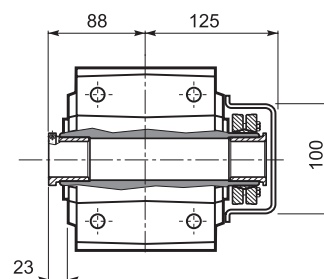
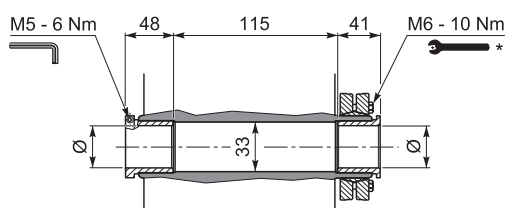


A 20...US

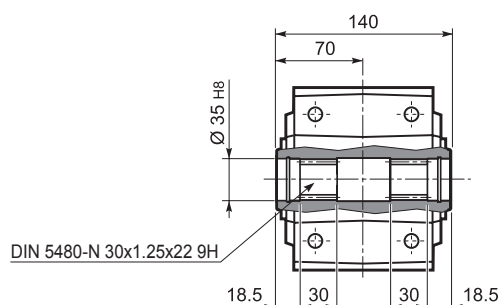


A 20...QF

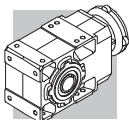
	Ø
QF25	25
QF30	30



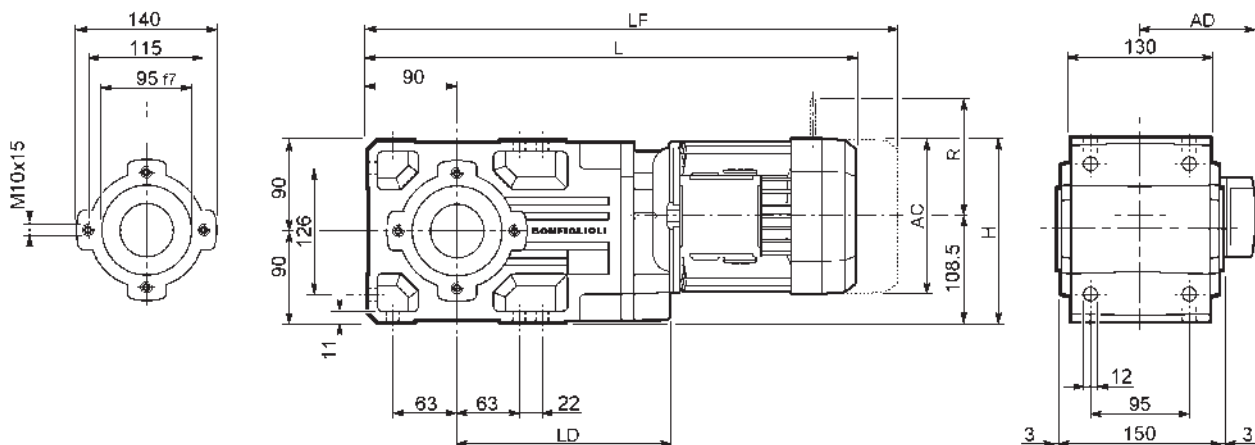
A 20...UV



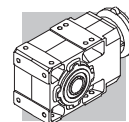
* Atenerse a las INSTRUCCIONES DE MONTAJE suministradas con el reductor.



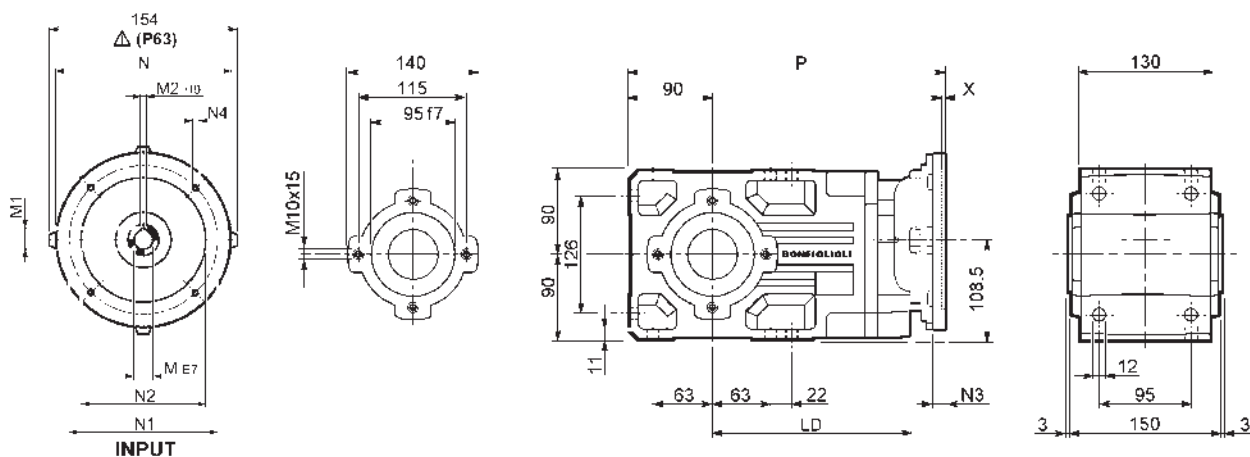
A 30...M



  			AC	H	L	LD	AD	Kg	M...FD M...FA		M...FD		M...FA	
									LF	Kg	R	AD	R	AD
A 30 2	S1	M1	138	177.5	488	201	108	22	549	24	103	135	124	108
A 30 2	S2	M2S	156	186.5	517	213	119	25	587	29	129	146	134	119
A 30 2	S3	M3S	195	206	560	223	142	30	656	38	160	158	160	142
A 30 2	S3	M3L	195	206	592	223	142	38	683	45	160	158	160	142
A 30 3	S05	M05	121	169	516.5	—	95	21	582.5	22	96	122	116	95
A 30 3	S1	M1	138	177.5	545.5	—	108	23	606.5	26	103	135	124	108
A 30 3	S2	M2S	156	186.5	574.5	—	119	25	644.5	29	129	146	134	119
A 30 3	S3	M3S	195	206	617.5	—	142	30	713.5	38	160	158	160	142
A 30 3	S3	M3L	195	206	649.5	—	142	38	740.5	45	160	158	160	142

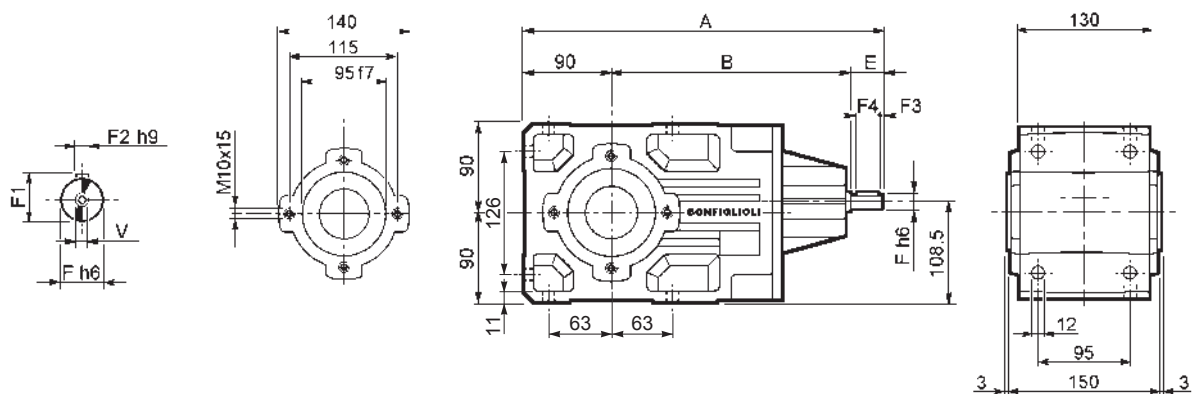


A 30...P(IEC)

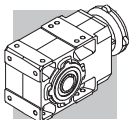


		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 30 2	P63	213	11	12.8	4	140	115	95	—	M8x19	4	333	16
A 30 2	P71	213	14	16.3	5	160	130	110	—	M8x16	4.5	333	16
A 30 2	P80	223	19	21.8	6	200	165	130	—	M10x14.5	4	352.5	17
A 30 2	P90	223	24	27.3	8	200	165	130	—	M10x14.5	4	352.5	17
A 30 2	P100	223	28	31.3	8	250	215	180	—	M12x16	4.5	362.5	20
A 30 2	P112	223	28	31.3	8	250	215	180	—	M12x16	4.5	362.5	20
A 30 3	P63	—	11	12.8	4	140	115	95	—	M8x19	4	390.5	17
A 30 3	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	390.5	17
A 30 3	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	410	18
A 30 3	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	410	18
A 30 3	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	420	22
A 30 3	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	420	22

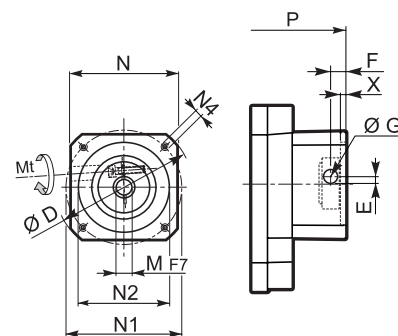
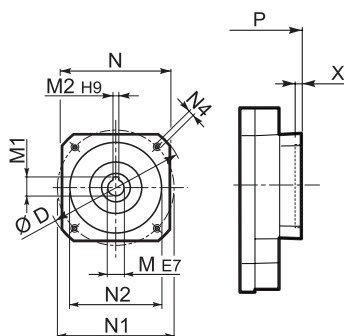
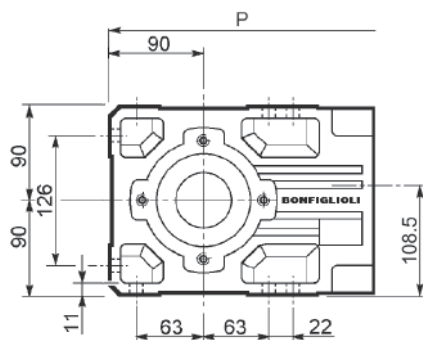
A 30...HS



		A	B	E	F	F1	F2	F3	F4	V	Kg
A 30 2	HS	383	253	40	19	21.5	6	2.5	35	M6x16	16.7
A 30 3		397.5	267.5	40	16	18	5	2.5	35	M6x16	16.5



A 30...SK / SC



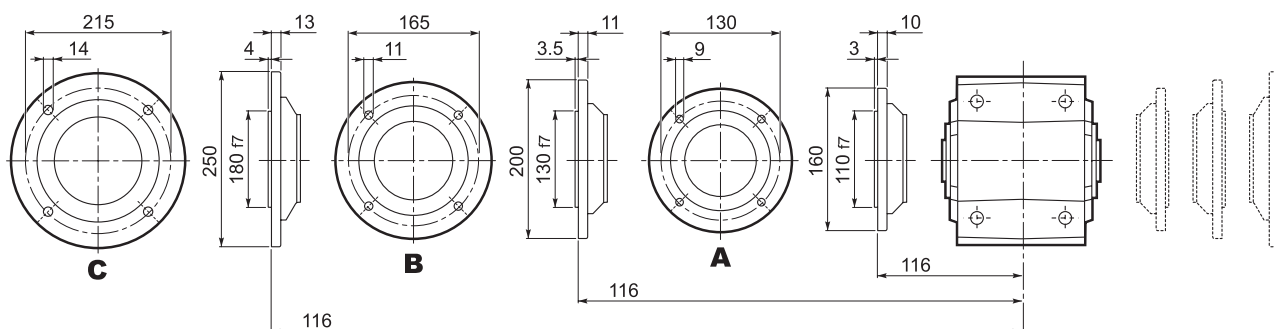
SK...

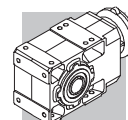
SC...

		D	M	M1	M2	N	N1	N2	N4	X	P		
											2x 	3x 	
A 30 2/3	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	304.5	362	15/16
A 30 2/3	SK60B	102	14	16.3	5	82	75	60	M5x10	4	311.5	369	16/17
A 30 2/3	SK80A	115	14	16.3	5	90	100	80	M6x12	4	311.5	369	16/17
A 30 2/3	SK80C	120	19	21.8	6	96	100	80	M6x12	4	352.5	410	17/18
A 30 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	352.5	410	17/18
A 30 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	352.5	410	17/18
A 30 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	352.5	410	17/18
A 30 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	352.5	410	17/18
A 30 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	352.5	410	17/18
A 30 2	SK130A	188	24	27.3	8	142	165	130	M10x20	5	352.5	—	18

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		
																
A 30 2/3	SC60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	331.5	389	16/17
A 30 2/3	SC60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	331.5	389	17/18
A 30 2/3	SC80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	331.5	389	17/18
A 30 2/3	SC80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	376	433.5	18/19
A 30 2/3	SC95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	376	433.5	18/19
A 30 2/3	SC95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	376	433.5	18/19
A 30 2/3	SC95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	376	433.5	18/19
A 30 2/3	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	376	433.5	19/20
A 30 2/3	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	376	433.5	19/20
A 30 2	SC 130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	376	—	20

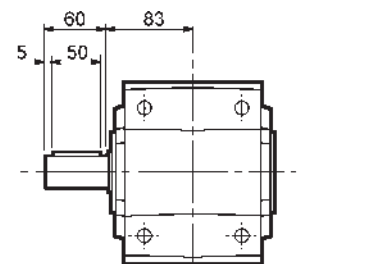
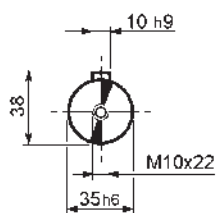
A 30...F...



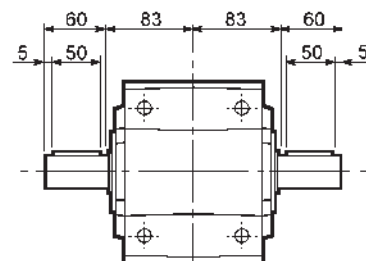
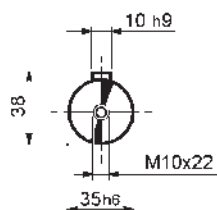


A 30

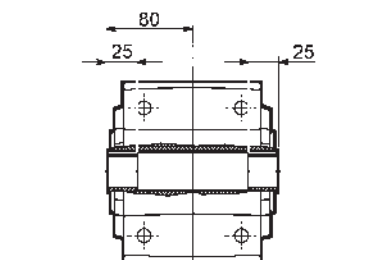
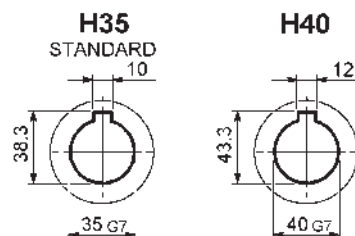
A 30...UR



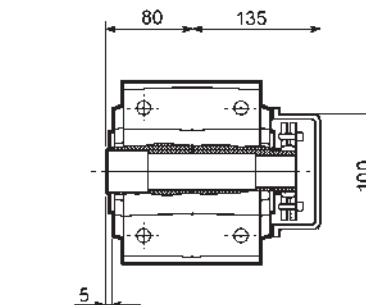
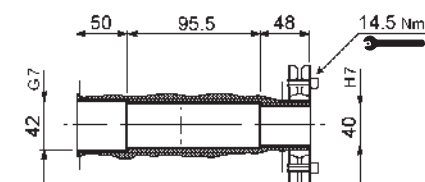
A 30...UD



A 30...UH

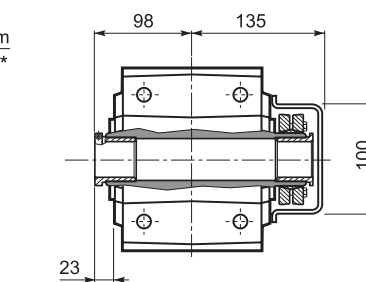
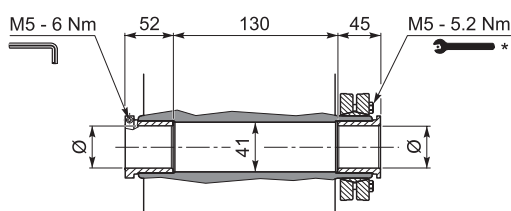


A 30...US

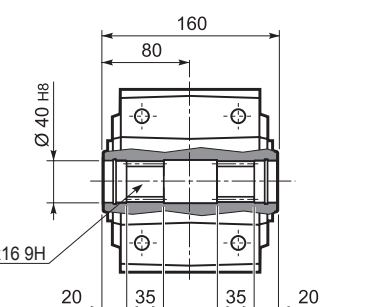
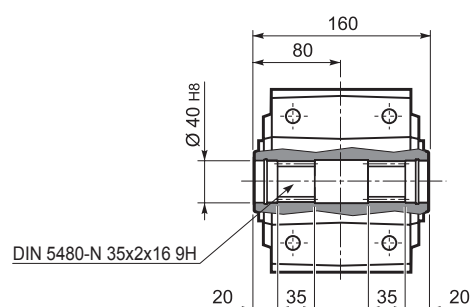


A 30...QF

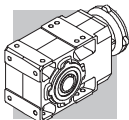
	Ø
QF35	35
QF40	40



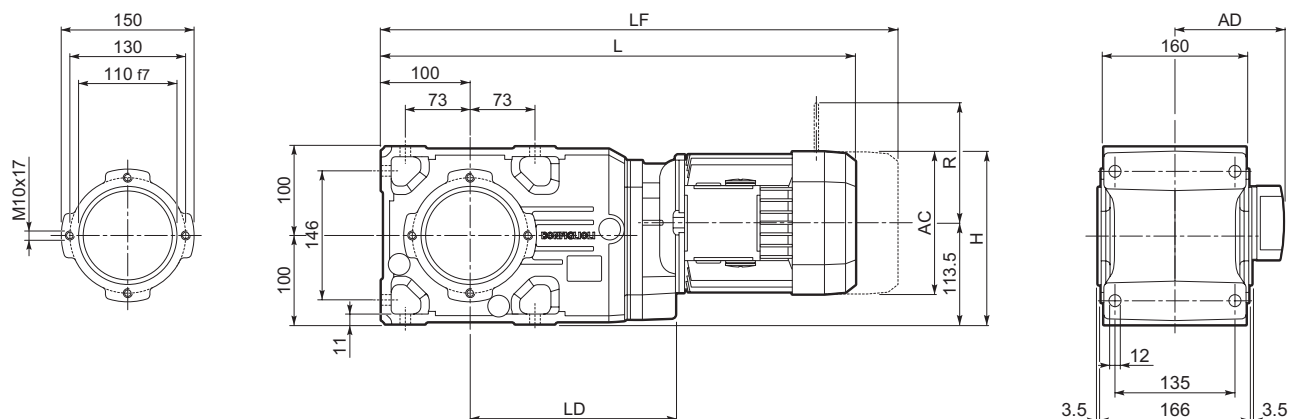
A 30...UV



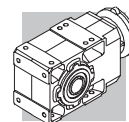
* Atenerse a las INSTRUCCIONES DE MONTAJE suministradas con el reductor.



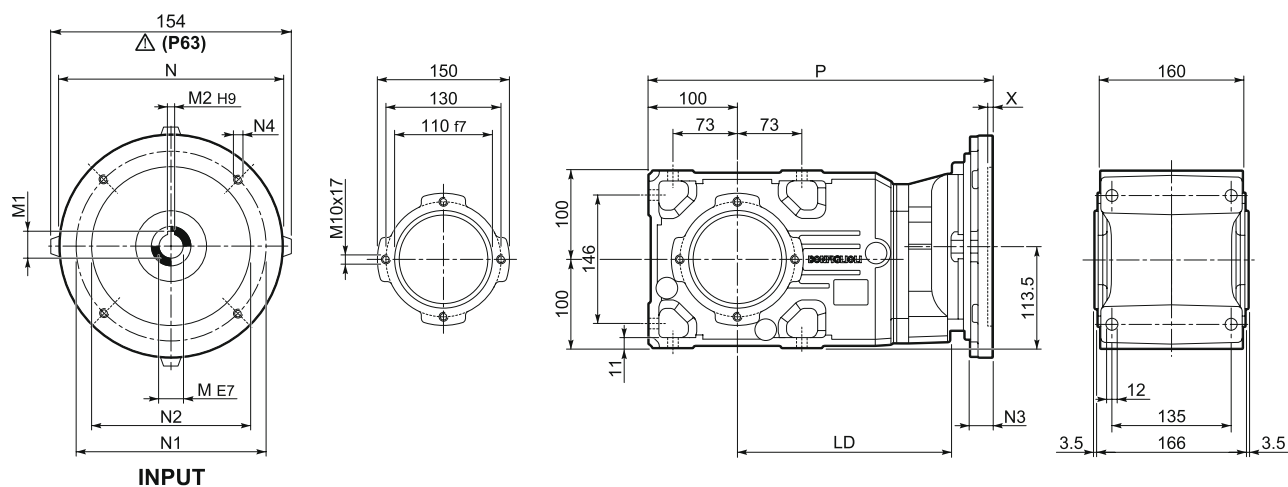
A 35...M



									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD		LF		R	AD	R	AD
A 35 2	S1	M1	138	182.5	514.5	217.5	108	34	575.5	36	103	135	124	108
A 35 2	S2	M2S	156	191.5	543.5	229.5	119	37	613.5	41	129	146	134	119
A 35 2	S3	M3S	195	211	586.5	239.5	142	42	682.5	50	160	158	160	142
A 35 2	S3	M3L	195	211	618.5	239.5	142	50	709.5	57	160	158	160	142
A 35 2	S4	M4S	258	242.5	726.5	—	193	89	835.5	107	226	210	217	193
A 35 2	S4	M4L	258	242.5	761.5	—	193	97	860.5	115	226	210	217	193
A 35 3	S05	M05S	121	174	543	—	95	33	609	34	96	122	116	95
A 35 3	S1	M1	138	182.5	572	—	108	35	633	38	103	135	124	108
A 35 3	S2	M2S	156	191.5	601	—	119	37	671	41	129	146	134	119
A 35 3	S3	M3S	195	211	644	—	142	42	740	50	160	158	160	142
A 35 3	S3	M3L	195	211	676	—	142	50	767	57	160	158	160	142

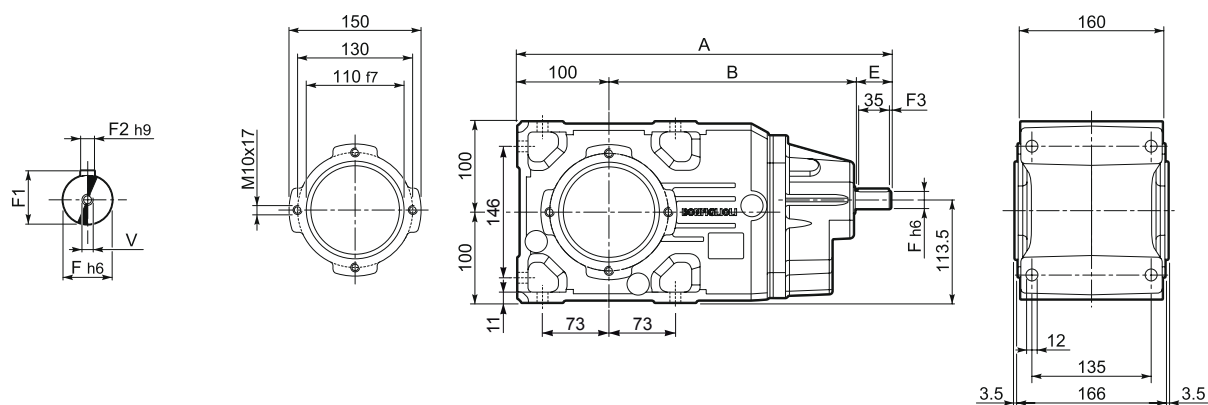


A 35...P(IEC)

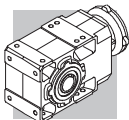


		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 35 2	P63	229.5	11	12.8	4	140	115	95	—	M8x19	4	359.5	28
A 35 2	P71	229.5	14	16.3	5	160	130	110	—	M8x16	4.5	359.5	28
A 35 2	P80	239.5	19	21.8	6	200	165	130	—	M10x14.5	4	379	29
A 35 2	P90	239.5	24	27.3	8	200	165	130	—	M10x14.5	4	379	29
A 35 2	P100	239.5	28	31.3	8	250	215	180	—	M12x16	4.5	389	32
A 35 2	P112	239.5	28	31.3	8	250	215	180	—	M12x16	4.5	389	32
A 35 2	P132	—	38	41.3	10	300	265	230	16	14	5	425.5	40
A 35 3	P63	—	11	12.8	4	140	115	95	—	M8x19	4	417	29
A 35 3	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	417	29
A 35 3	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	436.5	30
A 35 3	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	436.5	30
A 35 3	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	34
A 35 3	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	34

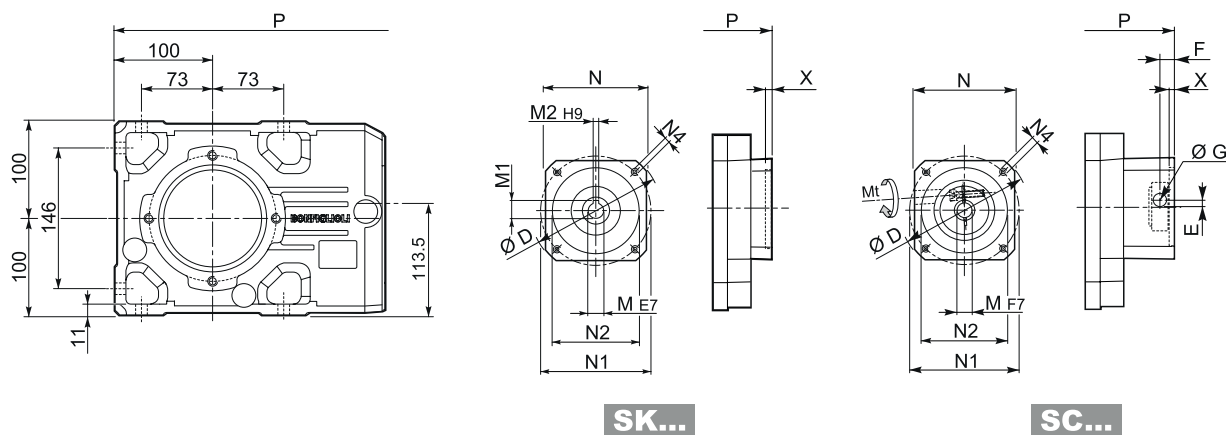
A 35...HS



		A	B	E	F	F1	F2	F3	F4	V	Kg
A 35 2	HS	409.5	269.5	40	19	21.5	6	2.5	35	M6x16	29
A 35 3		424	284	40	16	18	5	2.5	35	M6x16	29



A 35...SK / SC



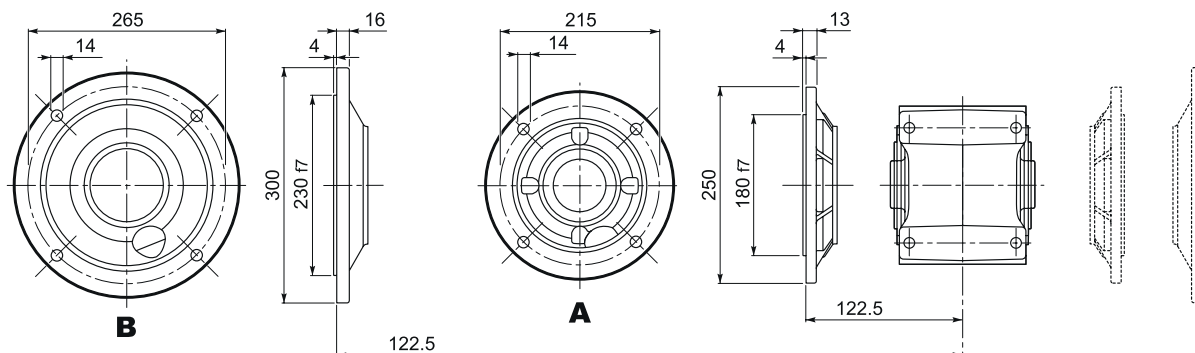
SK...

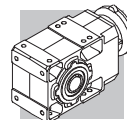
SC...

		D	M	M1	M2	N	N1	N2	N4	X	P		Kg
											2x	3x	
A 35 2/3	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	331	388.5	27/28
A 35 2/3	SK60B	102	14	16.3	5	82	75	60	M5x10	4	338	395.5	28/29
A 35 2/3	SK80A	115	14	16.3	5	90	100	80	M6x12	4	338	395.5	28/29
A 35 2/3	SK80C	120	19	21.8	6	96	100	80	M6x12	4	379	436.5	29/30
A 35 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	379	436.5	29/30
A 35 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	379	436.5	29/30
A 35 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	379	436.5	29/30
A 35 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	379	436.5	29/30
A 35 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	379	436.5	29/30
A 35 2	SK130A	188	24	27.3	8	142	165	130	M10x20	5	379	—	30

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
													2x	3x	
A 35 2/3	SC60A	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	358	415.5	28/29
A 35 2/3	SC60B	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	358	415.5	29/30
A 35 2/3	SC80A	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	358	415.5	29/30
A 35 2/3	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	402.5	460	30/31
A 35 2/3	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	402.5	460	30/31
A 35 2/3	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	402.5	460	30/31
A 35 2/3	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	402.5	460	30/31
A 35 2/3	SC110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	402.5	460	32/33
A 35 2/3	SC110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	402.5	460	32/33
A 35 2	SC130A	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	402.5	—	33

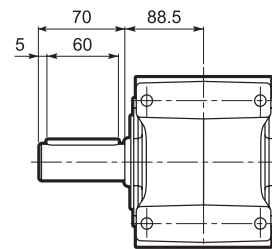
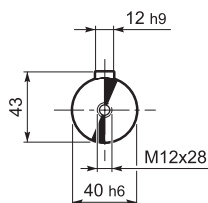
A 35...F...



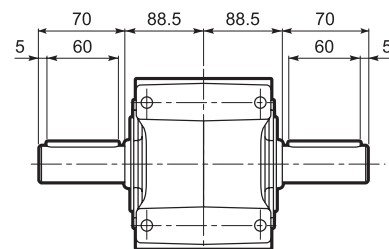
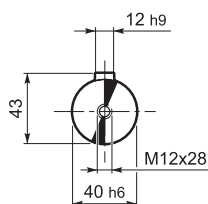


A 35

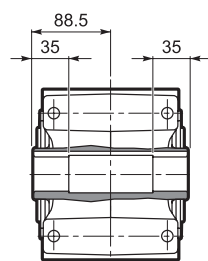
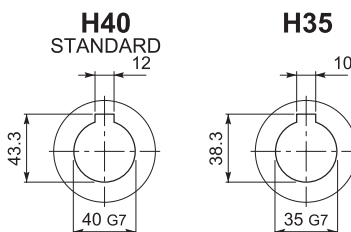
A 35...UR



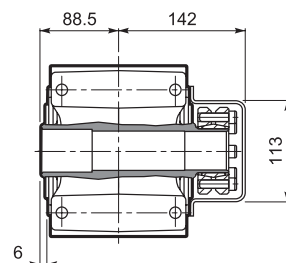
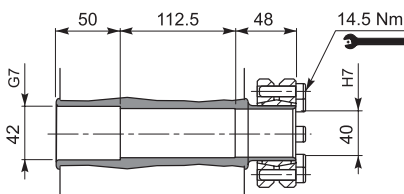
A 35...UD



A 35...UH



A 35...US

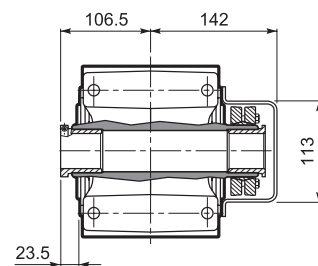
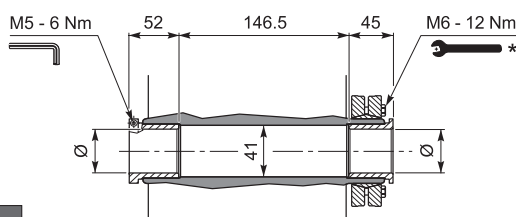


A 35...QF

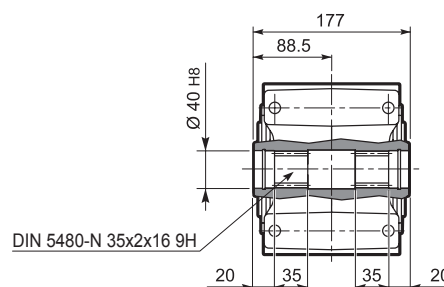
	Ø
QF35	35
QF40	40



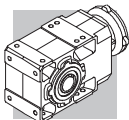
	M _{n2} max [Nm]
A 35 QF35	550



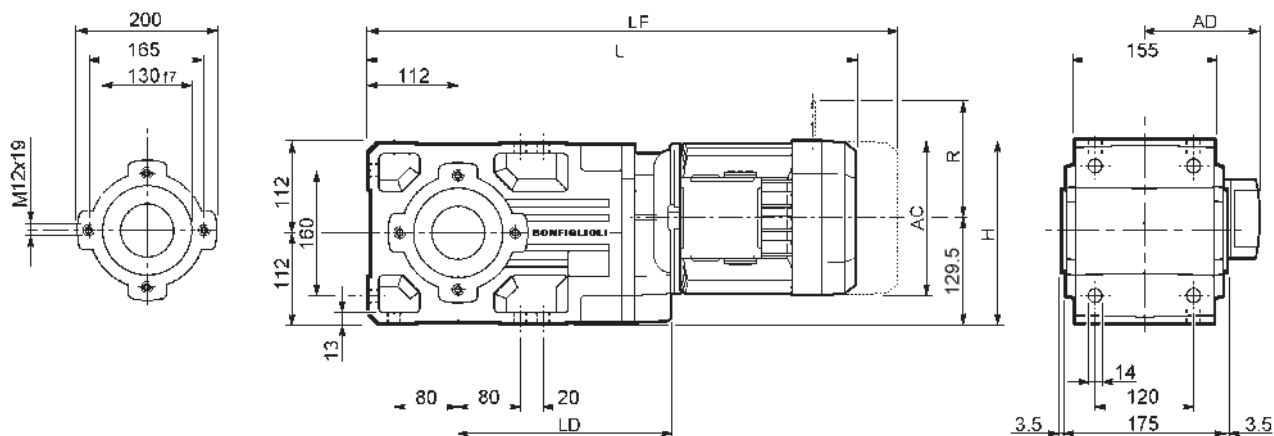
A 35...UV



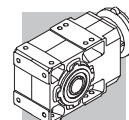
* Atenerse a las INSTRUCCIONES DE MONTAJE suministradas con el reductor.



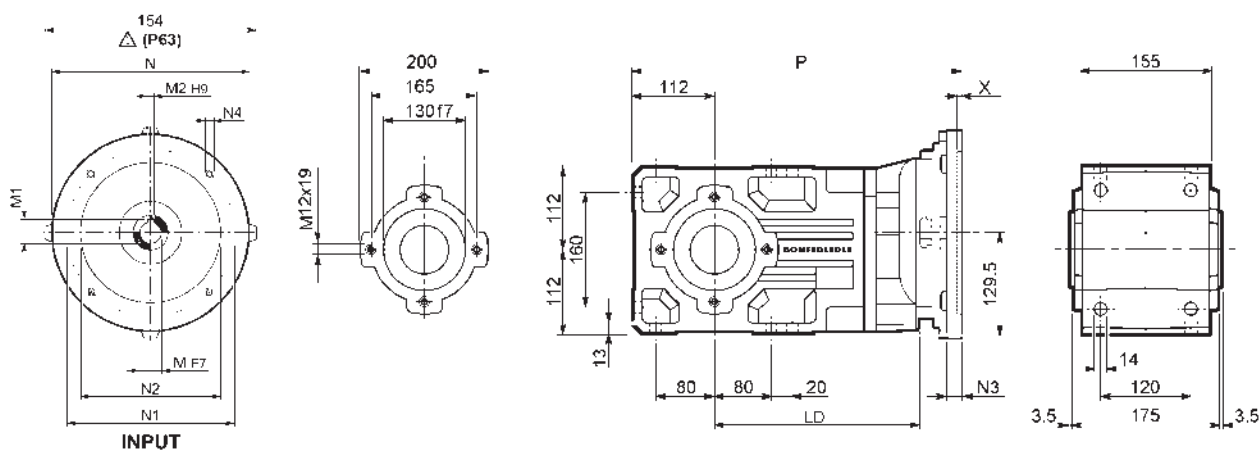
A 41...M



										M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	Kg		LF	Kg	R	AD	R	AD
A 41 2	S1	M1	138	198.5	530	216.5	108	41		591	44	103	135	124	108
A 41 2	S2	M2S	156	207.5	559	232	119	45		629	49	129	146	134	119
A 41 2	S3	M3S	195	227	602	248	142	50		698	58	160	158	160	142
A 41 2	S3	M3L	195	227	634	248	142	58		725	65	160	158	160	142
A 41 2	S4	M4	258	258.5	742	—	193	92		851	110	226	210	217	193
A 41 2	S4	M4LC	258	258.5	777	—	193	100		876	118	226	210	217	193
A 41 3	S05	M05	121	245	562.5	—	95	44		628.5	46	96	122	116	95
A 41 3	S1	M1	138	198.5	591.5	—	108	46		652.5	49	103	135	124	108
A 41 3	S2	M2S	156	207.5	620.5	—	119	50		690.5	58	129	146	134	119
A 41 3	S3	M3S	195	227	663.5	—	142	55		759.5	62	160	158	160	142
A 41 3	S3	M3L	195	227	695.5	—	142	61		786.5	68	160	158	160	142

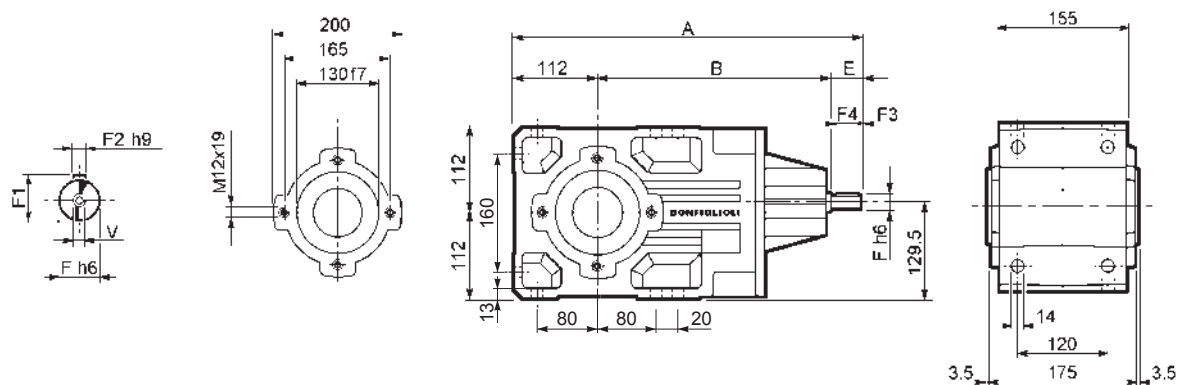


A 41...P(IEC)

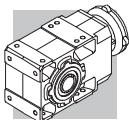


		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 41 2	P63	232	11	12.8	4	140	115	95	—	M8x19	4	375	37
A 41 2	P71	232	14	16.3	5	160	130	110	—	M8x16	4.5	375	38
A 41 2	P80	248	19	21.8	6	200	165	130	—	M10x14.5	4	394.5	39
A 41 2	P90	248	24	27.3	8	200	165	130	—	M10x14.5	4	394.5	39
A 41 2	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	404.5	43
A 41 2	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	404.5	43
A 41 2	P132	—	38	41.3	10	300	265	230	16	14	5	441	46
A 41 3	P63	—	11	12.8	4	140	115	95	—	M8x19	4	436.5	39
A 41 3	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	436.5	39
A 41 3	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	456	40
A 41 3	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	456	40
A 41 3	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	466	44
A 41 3	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	466	44

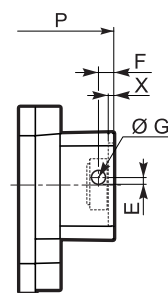
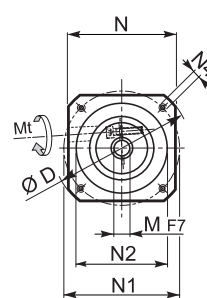
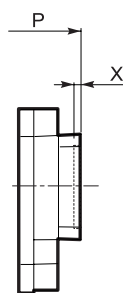
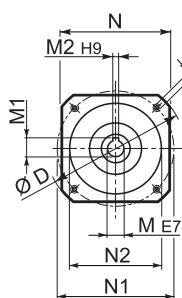
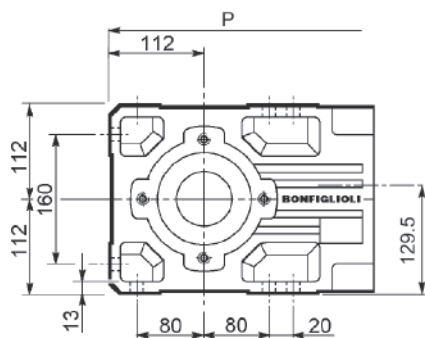
A 41...HS



		A	B	E	F	F1	F2	F3	F4	V	Kg
A 41 2	HS	464	302.5	50	24	27	8	2.5	45	M8x19	40.7
A 41 3		486.5	334.5	40	19	21.5	6	2.5	35	M6x16	39.5



A 41...SK / SC



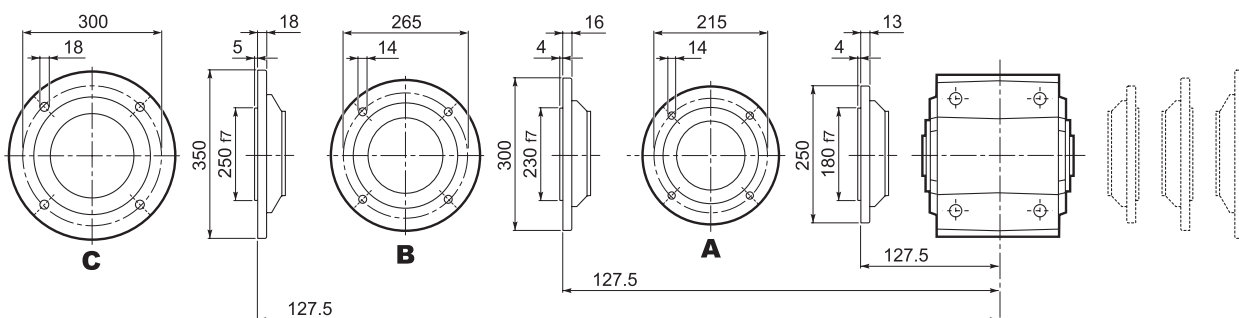
SK...

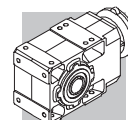
SC...

		D	M	M1	M2	N	N1	N2	N4	X	P	Kg
											2x 3x	
A41 3	SK60A	102	11	12.8	4	82	75	60	M5x10	3.5	—	40
A41 3	SK60B	102	14	16.3	5	82	75	60	M5x10	4	—	40
A41 3	SK80A	115	14	16.3	5	90	100	80	M6x12	4	—	40
A41 2	SK80B	120	14	16.3	5	96	100	80	M6x12	4	394.5	39
A41 2/3	SK80C	120	19	21.8	6	96	100	80	M6x12	4	394.5	39/40
A41 2/3	SK95A	130	14	16.3	5	102	115	95	M8x12	4	394.5	39/40
A41 2/3	SK95B	130	19	21.8	6	102	115	95	M8x12	4	394.5	39/41
A41 2/3	SK95C	130	24	27.3	8	102	115	95	M8x12	4	394.5	39/44
A41 2/3	SK110A	150	19	21.8	6	120	130	110	M8x12	5	394.5	39/44
A41 2/3	SK110B	150	24	27.3	8	120	130	110	M8x12	5	394.5	39/44
A41 2	SK130A	188	24	27.3	8	142	165	130	M10x20	5	394.5	41
A41 2	SK130B	189	32	35.3	10	160	165	130	M10x20	5	441	43
A41 2	SK180A	240	32	35.3	10	192	215	180	M12x19	5	441	43
A41 2	SK180B	240	38	41.3	10	192	215	180	M12x19	5	441	43

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	Kg
													2x 3x	
A41 3	SC60A	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	—	41
A41 3	SC60B	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	—	41
A41 3	SC80A	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	—	41
A41 2	SC80B	M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	418	40
A41 2/3	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	418	40/41
A41 2/3	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	418	40/42
A41 2/3	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	418	40/42
A41 2/3	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	418	40/43
A41 2/3	SC110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	418	41/47
A41 2/3	SC110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	418	41/47
A41 2	SC130A	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	418	42
A41 2	SC130B	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	464	46
A41 2	SC180A	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	468	46
A41 2	SC180B	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	468	46

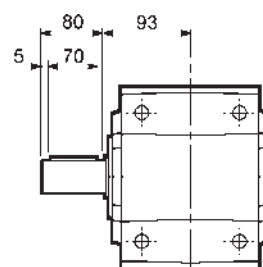
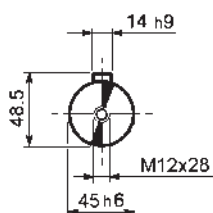
A 41...F...



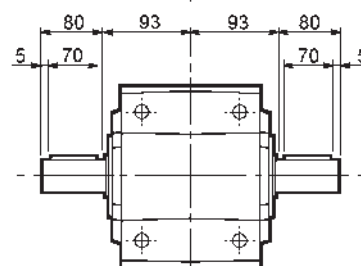
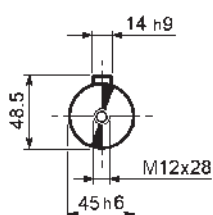


A 41

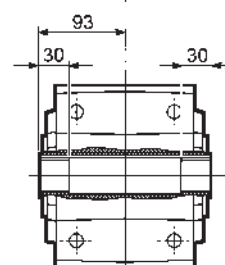
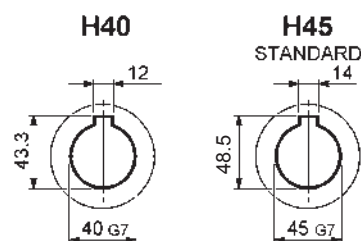
A 41...UR



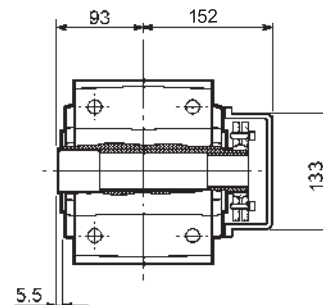
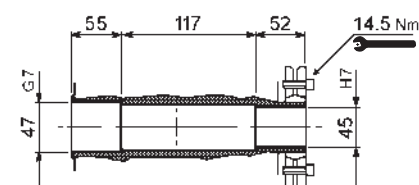
A 41...UD



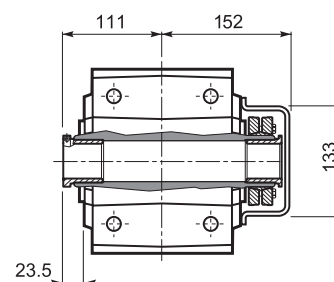
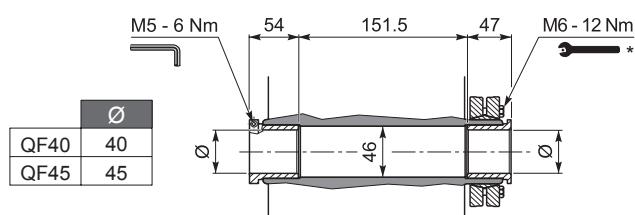
A 41...UH



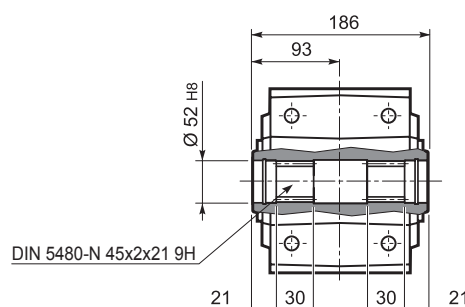
A 41...US



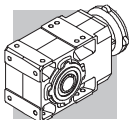
A 41...QF



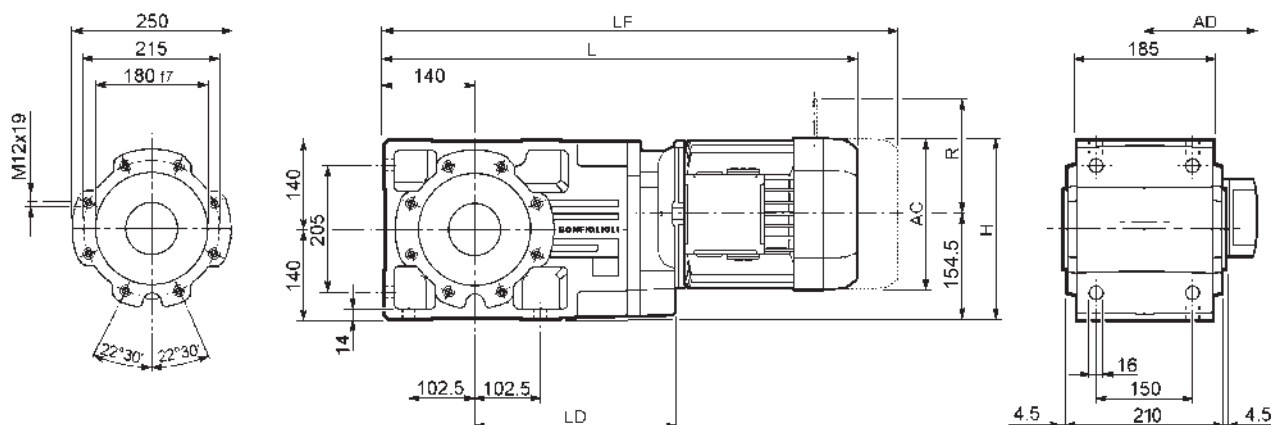
A 41...UV



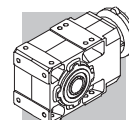
* Atenerse a las INSTRUCCIONES DE MONTAJE suministradas con el reductor.



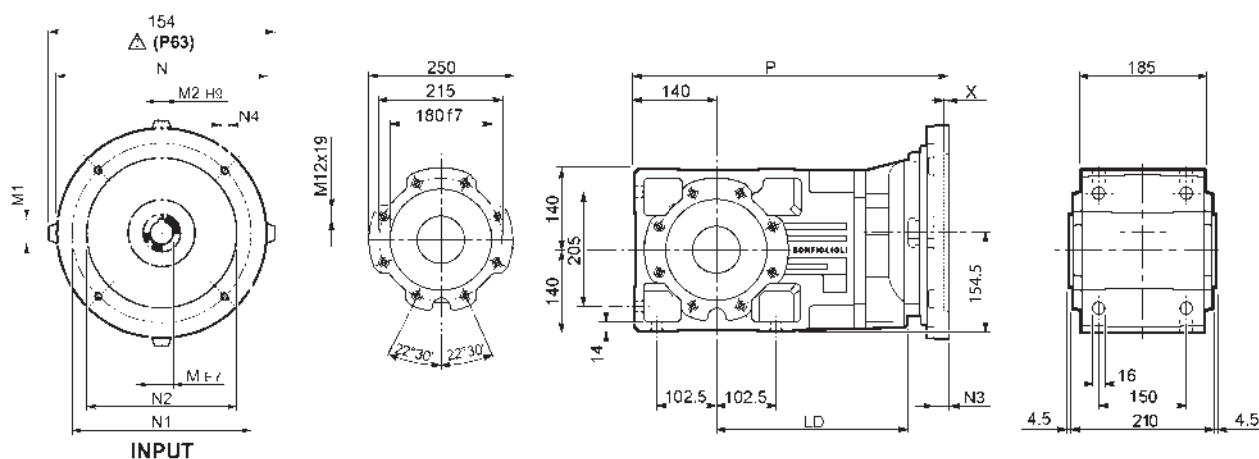
A 50...M



										M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	Kg		LF	Kg	R	AD	R	AD
A 50 2/3	S1	M1	138	223	609.5	—	108	66		670.5	69	103	135	124	108
A 50 2/3	S2	M2S	156	232	638.5	284.5	119	68		708.5	72	129	146	134	119
A 50 2/3	S3	M3S	195	251.5	681.5	299.5	142	73		777.5	81	160	158	160	142
A 50 2/3	S3	M3L	195	251.5	713.5	299.5	142	81		804.5	88	160	158	160	142
A 50 2/3	S4	M4	258	283	821.5	284.5	193	115		930.5	133	226	210	217	193
A 50 2/3	S4	M4LC	258	283	856.5	284.5	193	123		955.5	141	226	210	217	193
A 50 2/3	S5	M5S	310	309	908	—	245	143		1048	173	266	245	247	245
A 50 2/3	S5	M5L	310	309	952	—	245	159		1092	189	266	245	247	245
A 50 4	S1	M1	138	223	681	—	108	67		742	70	103	135	124	108
A 50 4	S2	M2S	156	232	710	—	119	71		780	75	129	146	134	119
A 50 4	S3	M3S	195	251.5	753	—	142	76		849	76	160	158	160	142
A 50 4	S3	M3L	195	251.5	785	—	142	83		876	78	160	158	160	142

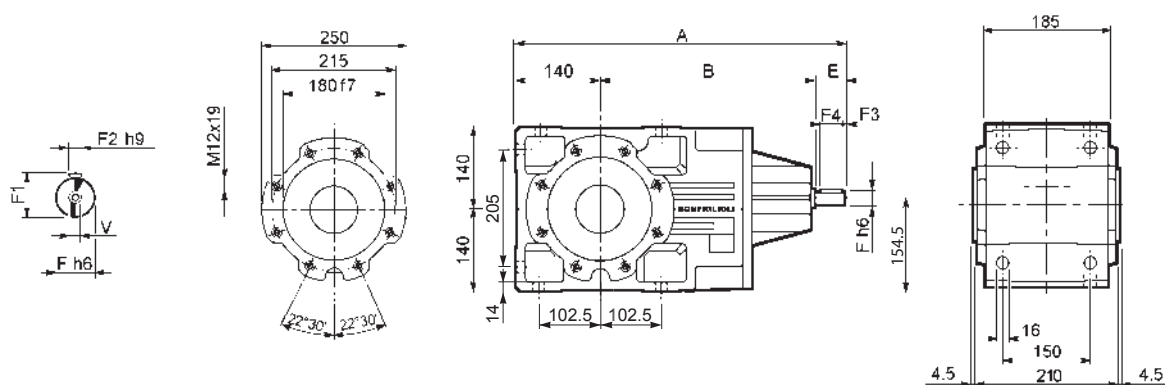


A 50...P(IEC)

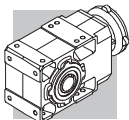


		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 50 2/3	P63	284.5	11	12.8	4	140	115	95	—	M8x19	4	454.5	60
A 50 2/3	P71	284.5	14	16.3	5	160	130	110	—	M8x16	4.5	454.5	60
A 50 2/3	P80	299.5	19	21.8	6	200	165	130	—	M10x14.5	4	474	61
A 50 2/3	P90	299.5	24	27.3	8	200	165	130	—	M10x14.5	4	474	61
A 50 2/3	P100	284.5	28	31.3	8	250	215	180	—	M12x16	4.5	484	65
A 50 2/3	P112	284.5	28	31.3	8	250	215	180	—	M12x16	4.5	484	65
A 50 2/3	P132	284.5	38	41.3	10	300	265	230	16	14	5	520.5	68
A 50 2/3	P160	—	42	45.3	12	350	300	250	23	18	5.5	571	72
A 50 2/3	P180	—	48	51.8	14	350	300	250	23	18	5.5	571	72
A 50 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	526	62
A 50 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	526	62
A 50 4	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	545.5	63
A 50 4	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	545.5	63
A 50 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	555.5	67
A 50 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	555.5	67

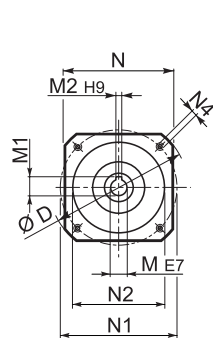
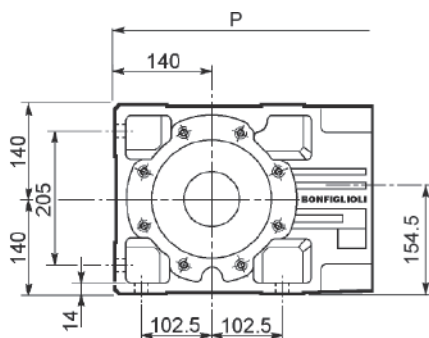
A 50...HS



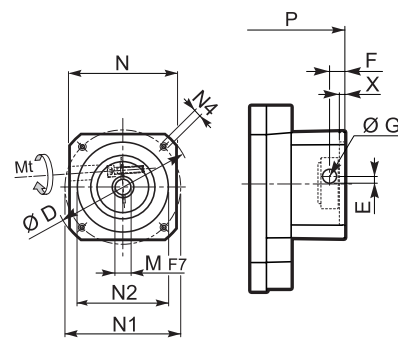
		A	B	E	F	F1	F2	F3	F4	V	Kg
A 50 2	HS	543.5	353.5	50	24	27	8	2.5	45	M8x19	72
A 50 3		543.5	353.5	50	24	27	8	2.5	45	M8x19	76
A 50 4		576	396	40	19	21.5	6	2.5	35	M6x16	77



A 50...SK / SC



SK...

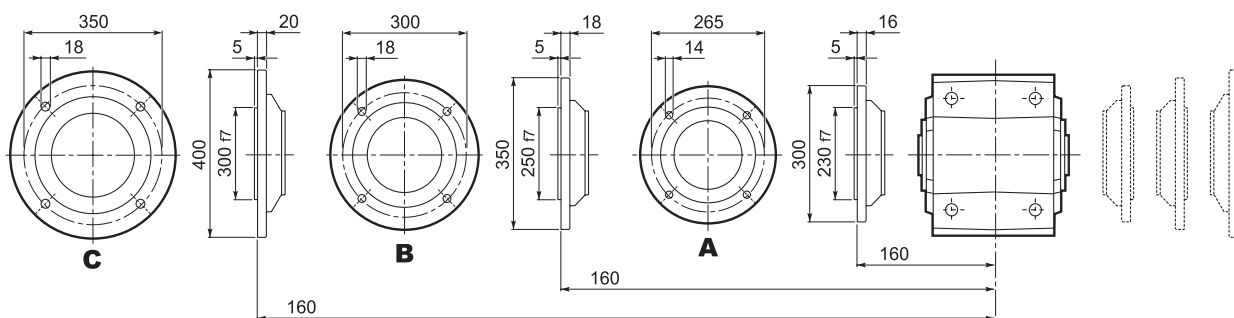


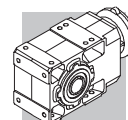
SC...

		D	M	M1	M2	N	N1	N2	N4	X	P		Kg
											2/3x	4x	
A 50 2/3	SK80B	120	14	16.3	5	96	100	80	M6x12	4	474	—	61/61
A 50 2/3/4	SK80C	120	19	21.8	6	96	100	80	M6x12	4	474	545.5	61/61/63
A 50 2/3/4	SK95A	130	14	16.3	5	102	115	95	M8x12	4	474	545.5	61/61/63
A 50 2/3/4	SK95B	130	19	21.8	6	102	115	95	M8x12	4	474	545.5	61/61/63
A 50 2/3/4	SK95C	130	24	27.3	8	102	115	95	M8x12	4	474	545.5	61/61/63
A 50 2/3/4	SK110A	150	19	21.8	6	120	130	110	M8x12	5	474	545.5	61/61/65
A 50 2/3/4	SK110B	150	24	27.3	8	120	130	110	M8x12	5	474	575	61/61/65
A 50 2/3/4	SK130A	188	24	27.3	8	142	165	130	M10x20	5	474	575	63/63/66
A 50 2/3	SK130B	189	32	35.3	10	160	165	130	M10x20	5	520.5	—	69/69
A 50 2/3	SK180A	240	32	35.3	10	192	215	180	M12x19	5	520.5	—	69/69
A 50 2/3	SK180B	240	38	41.3	10	192	215	180	M12x19	5	520.5	—	69/69

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
													2/3x	3x	
A 50 2/3	SC80B	M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	497.5	—	62/62
A 50 2/3/4	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	497.5	569	62/62/64
A 50 2/3/4	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	497.5	569	62/62/64
A 50 2/3/4	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	497.5	569	62/62/64
A 50 2/3/4	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	497.5	569	62/62/64
A 50 2/3/4	SC110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	497.5	569	63/63/66
A 50 2/3/4	SC110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	497.5	569	63/63/66
A 50 2/3/4	SC130A	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	497.5	569	64/64/67
A 50 2/3	SC130B	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	543.5	—	68/68
A 50 2/3	SC180A	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	547.5	—	68/68
A 50 2/3	SC180B	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	547.5	—	68/68

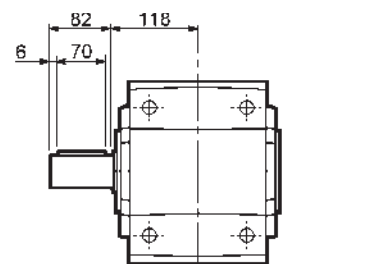
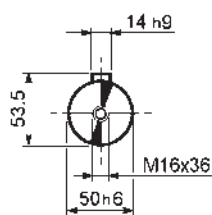
A 50...F...



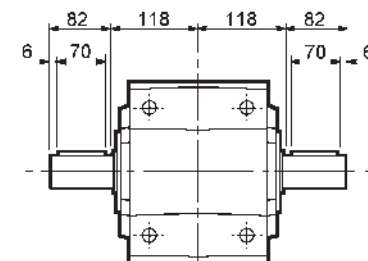
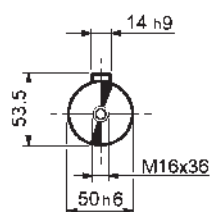


A 50

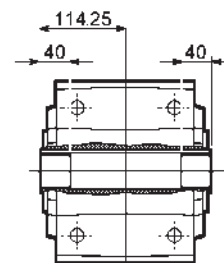
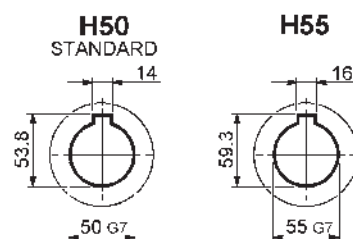
A 50...UR



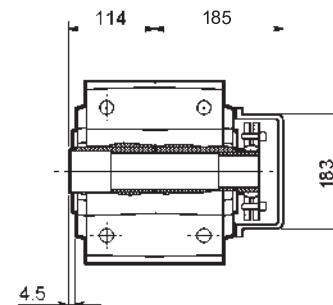
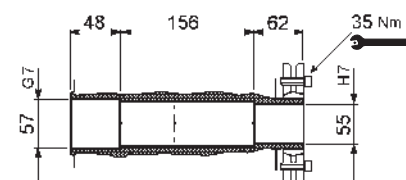
A 50...UD



A 50...UH

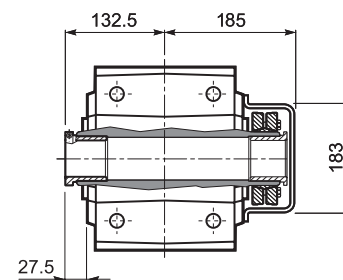
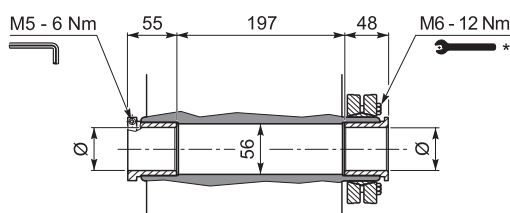


A 50...US

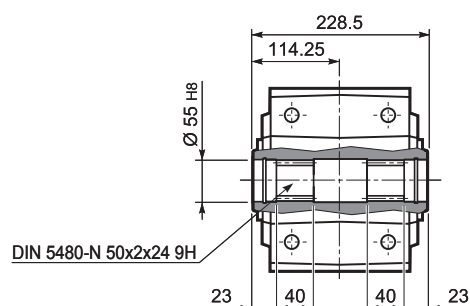


A 50...QF

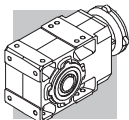
	Ø
QF50	50
QF55	55



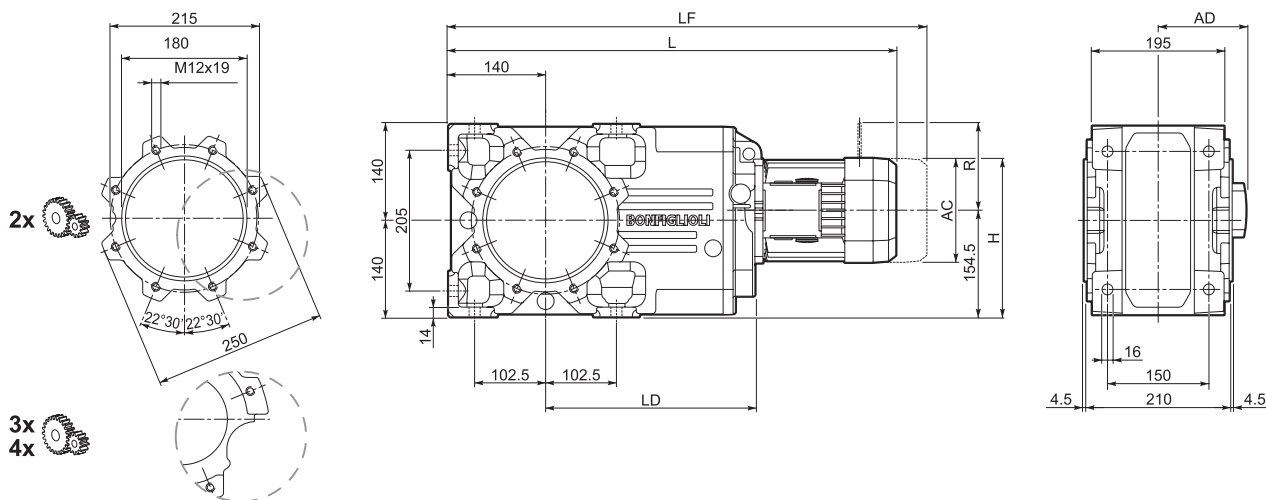
A 50...UV



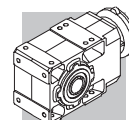
* Atenerse a las INSTRUCCIONES DE MONTAJE suministradas con el reductor.



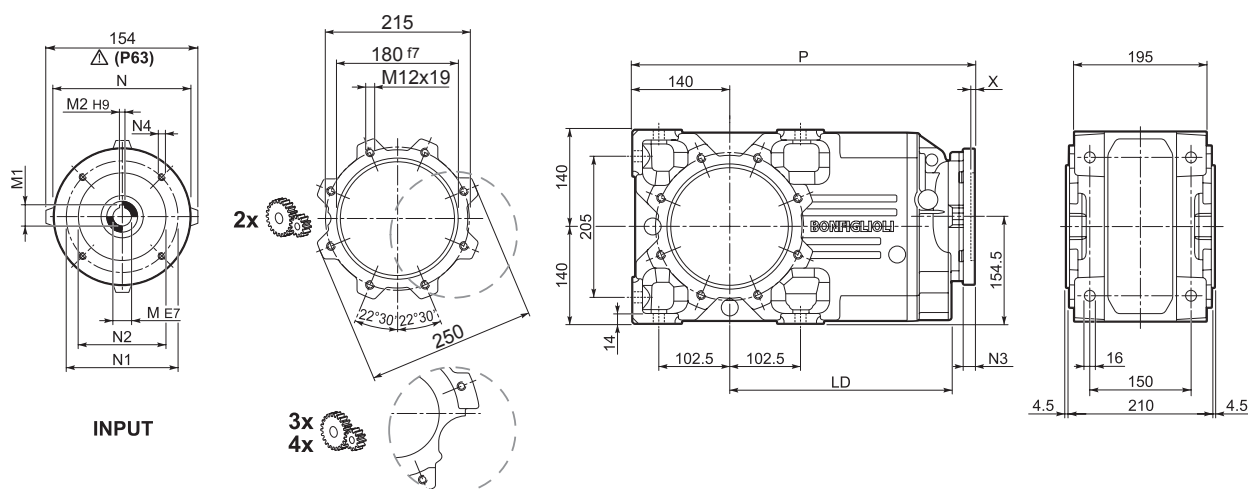
A 55...M



									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD		LF		R	AD	R	AD
A 55 3	S1	M1	138	198.5	627.5	—	108	81	688.5	84	103	135	124	108
A 55 2/3	S2	M2S	156	232	656.5	302.5	119	88	726.5	92	129	146	134	119
A 55 2/3	S3	M3S	195	251	699.5	317.5	142	93	795.5	99	160	158	160	142
A 55 2/3	S3	M3L	195	251	731.5	317.5	142	101	822.5	108	160	158	160	142
A 55 2/3	S4	M4	258	283	839.5	302.5	193	135	948.5	153	226	210	217	193
A 55 2/3	S4	M4LC	258	283	874.5	302.5	193	143	973.5	161	226	210	217	193
A 55 2/3	S5	M5S	310	309.5	926	—	245	163	1066	193	266	245	247	245
A 55 2/3	S5	M5L	310	309.5	970	—	245	179	1110	209	266	245	247	245
A 55 4	S1	M1	138	223	699	—	108	82	760	85	103	135	124	108
A 55 4	S2	M2S	156	232	728	—	119	86	798	90	129	146	134	119
A 55 4	S3	M3S	195	251.5	771	—	142	91	867	98	160	158	160	142
A 55 4	S3	M3L	195	251.5	803	—	142	98	894	105	160	158	160	142

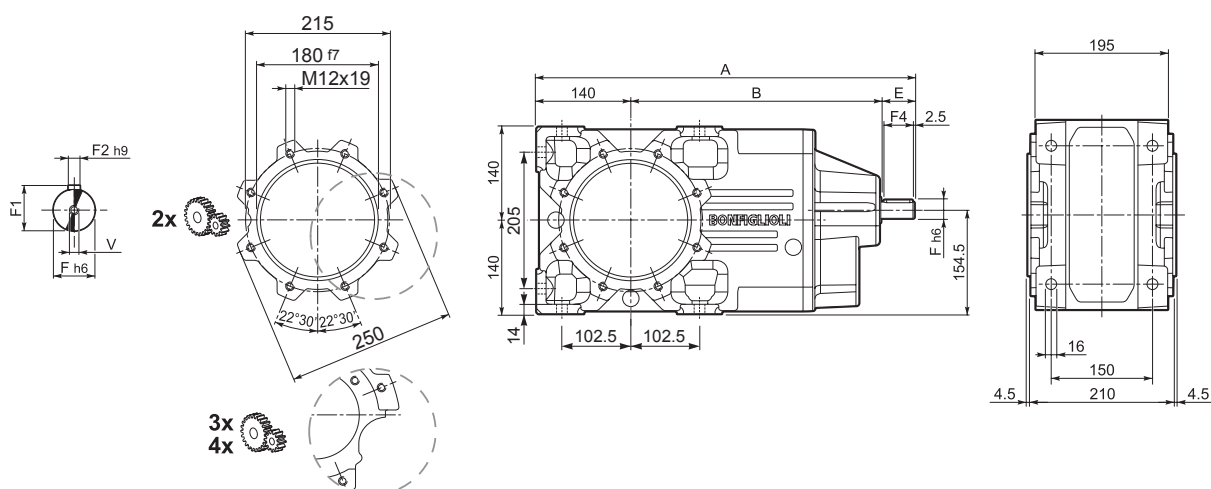


A 55...P(IEC)



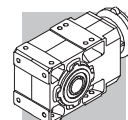
		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 55 3	P63	302.5	11	12.8	4	140	115	95	—	M8x19	4	472.5	75
A 55 3	P71	302.5	14	16.3	5	160	130	110	—	M8x16	4.5	472.5	75
A 55 2/3	P80	317.5	19	21.8	6	200	165	130	—	M10x14.5	4	492	81
A 55 2/3	P90	317.5	24	27.3	8	200	165	130	—	M10x14.5	4	492	81
A 55 2/3	P100	302.5	28	31.3	8	250	215	180	—	M12x16	4.5	502	85
A 55 2/3	P112	302.5	28	31.3	8	250	215	180	—	M12x16	4.5	502	85
A 55 2/3	P132	302.5	38	41.3	10	300	265	230	16	14	5	538.5	93
A 55 2/3	P160	—	42	45.3	12	350	300	250	23	18	5.5	589	110
A 55 2/3	P180	—	48	51.8	14	350	300	250	23	18	5.5	589	110
A 55 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	544	77
A 55 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	544	77
A 55 4	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	563.5	78
A 55 4	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	563.5	78
A 55 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	573.5	82
A 55 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	573.5	82

A 55...HS



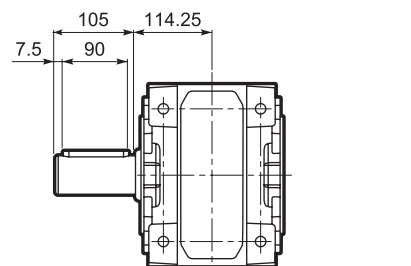
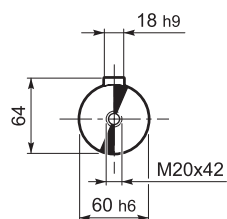
		A	B	E	F	F1	F2	F3	F4	V	Kg
A 55 2	HS	561.5	371.5	50	24	27	8	2.5	45	M8x19	96
A 55 3		561.5	371.5	50	24	27	8	2.5	45	M8x19	91
A 55 4		594	414	40	19	21.5	6	2.5	35	M6x16	92



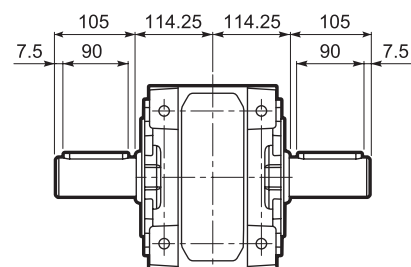
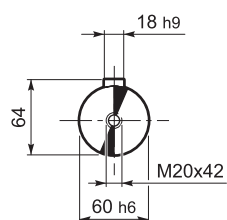


A 55

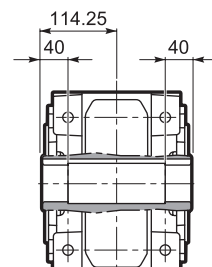
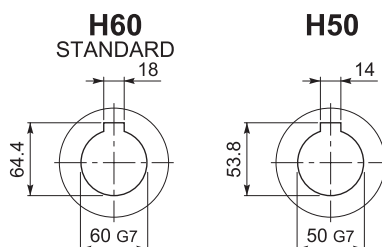
A 55...UR



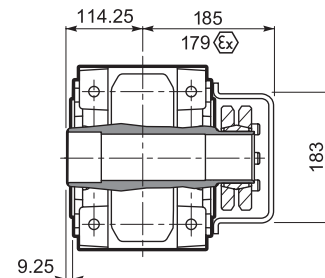
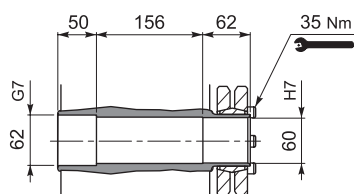
A 55...UD



A 55...UH



A 55...US

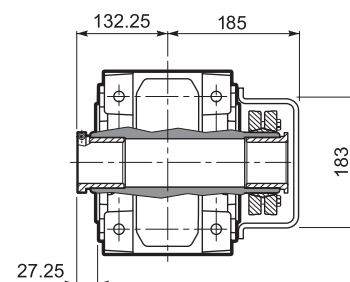
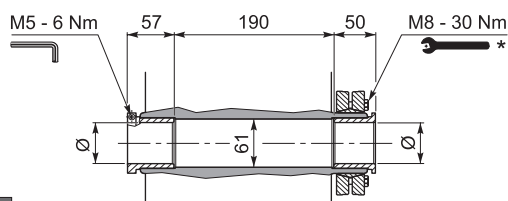


A 55...QF

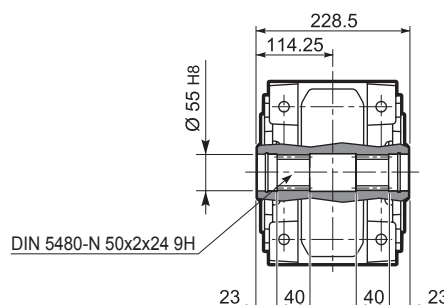
	Ø
QF55	55
QF60	60



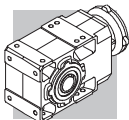
M _{n2} max [Nm]	
A 55 QF55	1900



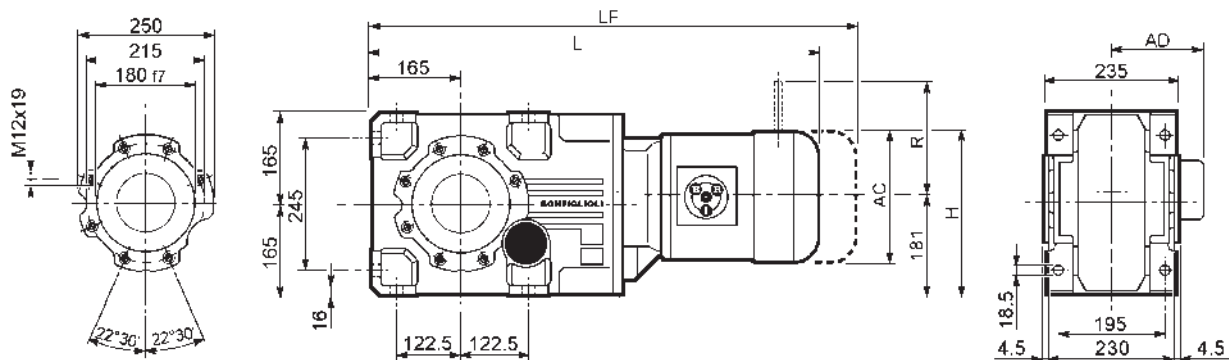
A 55...UV



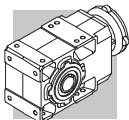
* Atenerse a las INSTRUCCIONES DE MONTAJE suministradas con el reductor.



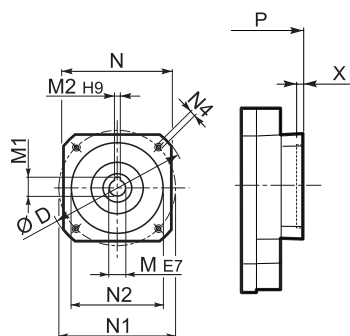
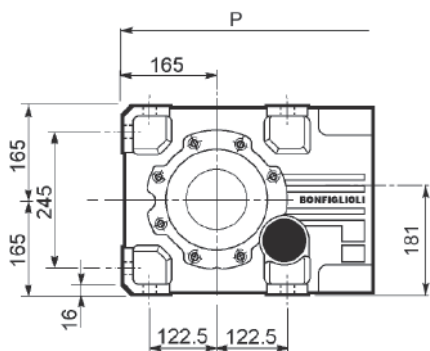
A 60...M



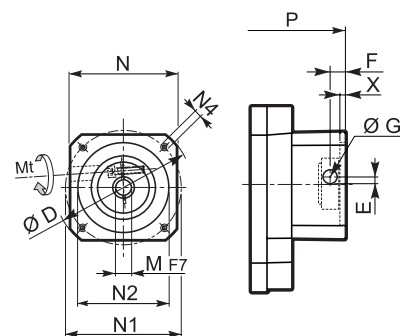
  			AC	H	L	AD		M...FD M...FA		M...FD		M...FA	
								LF		R	AD	R	AD
A 60 2/3	S2	M2S	156	256.5	700.5	119	98	770.5	102	129	146	134	119
A 60 2/3	S3	M3S	195	276	743.5	142	103	839.5	111	160	158	160	142
A 60 2/3	S3	M3L	195	276	775.5	142	111	866.5	118	160	158	160	142
A 60 2/3	S4	M4	258	307.5	883.5	193	145	992.5	163	226	210	217	193
A 60 2/3	S4	M4LC	258	307.5	918.5	193	153	1017.5	171	226	210	217	193
A 60 2/3	S5	M5S	310	333.5	970	245	173	1110	203	266	245	247	245
A 60 2/3	S5	M5L	310	333.5	1014	245	189	1154	219	266	245	247	245
A 60 4	S1	M1	138	247.5	742	108	100	803	103	103	135	124	108
A 60 4	S2	M2S	156	256.5	771	119	104	841	108	129	146	134	119
A 60 4	S3	M3S	195	276	814	142	109	910	117	160	158	160	142
A 60 4	S3	M3L	195	276	846	142	117	937	124	160	158	160	142



A 60...SK / SC



SK...

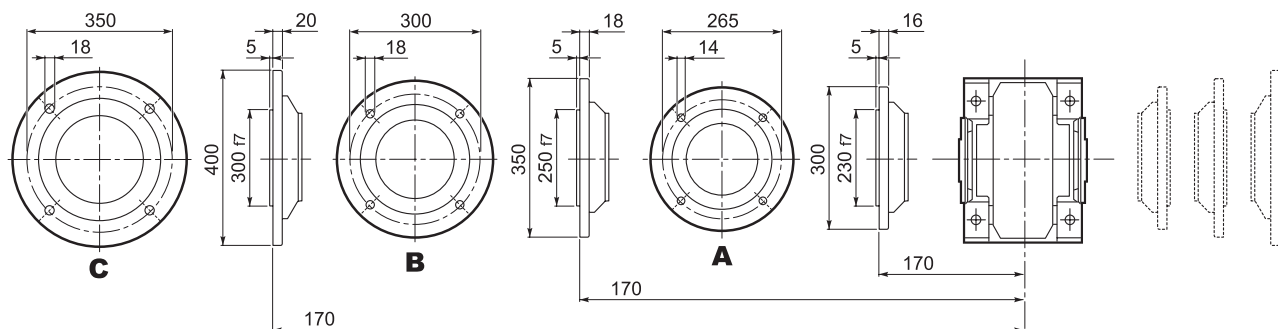


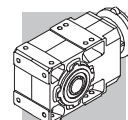
SC...

		D	M	M1	M2	N	N1	N2	N4	X	P		Kg
											2/3x	4x	
A 60 4	SK80B	120	14	16.3	5	96	100	80	M6x12	4	—	606.5	89
A 60 2/3/4	SK80C	120	19	21.8	6	96	100	80	M6x12	4	536	606.5	93/93/92
A 60 2/3/4	SK95A	130	14	16.3	5	102	115	95	M8x12	4	536	606.5	93/93/92
A 60 2/3/4	SK95B	130	19	21.8	6	102	115	95	M8x12	4	536	606.5	93/93/92
A 60 2/3/4	SK95C	130	24	27.3	8	102	115	95	M8x12	4	536	606.5	93/93/92
A 60 2/3/4	SK110A	140	19	21.8	6	120	130	110	M8x12	5	536	606.5	93/93/92
A 60 2/3/4	SK110B	140	24	27.3	8	120	130	110	M8x12	5	536	606.5	93/93/92
A 60 2/3/4	SK130A	188	24	27.3	8	142	165	130	M10x20	5	536	606.5	97/97/103
A 60 2/3	SK130B	189	32	35.3	10	160	165	130	M10x20	5	582.5	—	102/102
A 60 2/3	SK180A	240	32	35.3	10	192	215	180	M12x19	5	582.5	—	102/102
A 60 2/3	SK180B	240	38	41.3	10	192	215	180	M12x19	5	582.5	—	102/102

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P		Kg
													2/3x	3x	
A 60 4	SC80B	M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	—	630	90
A 60 2/3/4	SC80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	559.5	630	94/94/93
A 60 2/3/4	SC95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	559.5	630	94/94/93
A 60 2/3/4	SC95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	559.5	630	94/94/93
A 60 2/3/4	SC95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	559.5	630	94/94/93
A 60 2/3/4	SC110A	M6 15	140	16.5	16	17.75	19	120	130	110	M8x16	5	559.5	630	95/95/93
A 60 2/3/4	SC110B	M6 15	140	16.5	16	17.75	24	120	130	110	M8x16	5	559.5	630	95/95/93
A 60 2/3/4	SC130A	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	559.5	630	96/96/104
A 60 2/3	SC130B	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	605.5	—	105/105
A 60 2/3	SC180A	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	609.5	—	105/105
A 60 2/3	SC180B	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	609.5	—	105/105

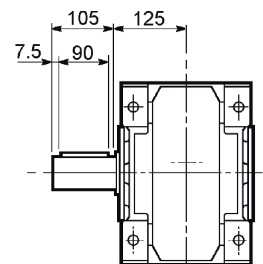
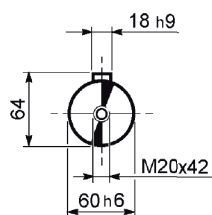
A 60...F...



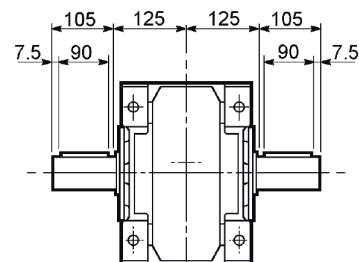
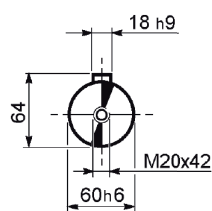


A 60

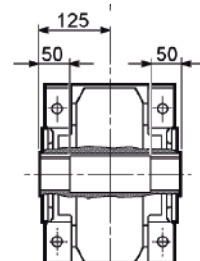
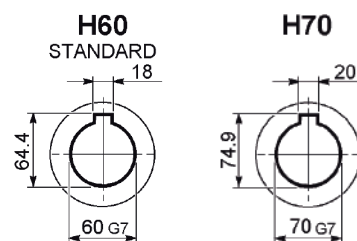
A 60...UR



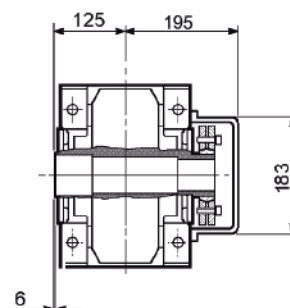
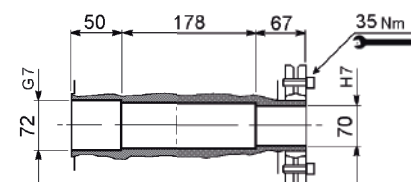
A 60...UD



A 60...UH

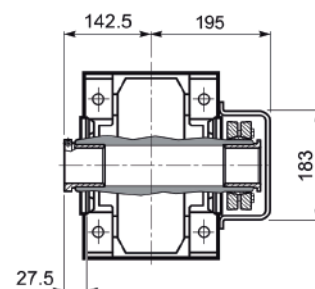
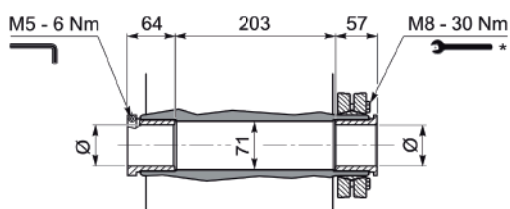


A 60...US

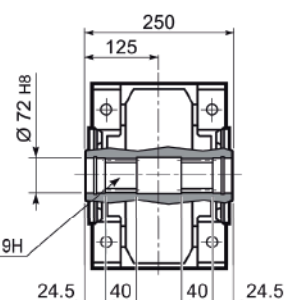
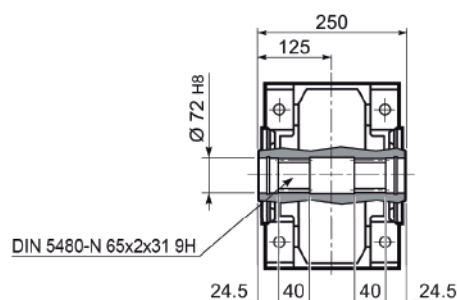


A 60...QF

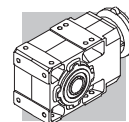
	Ø
QF60	60
QF65	65
QF70	70



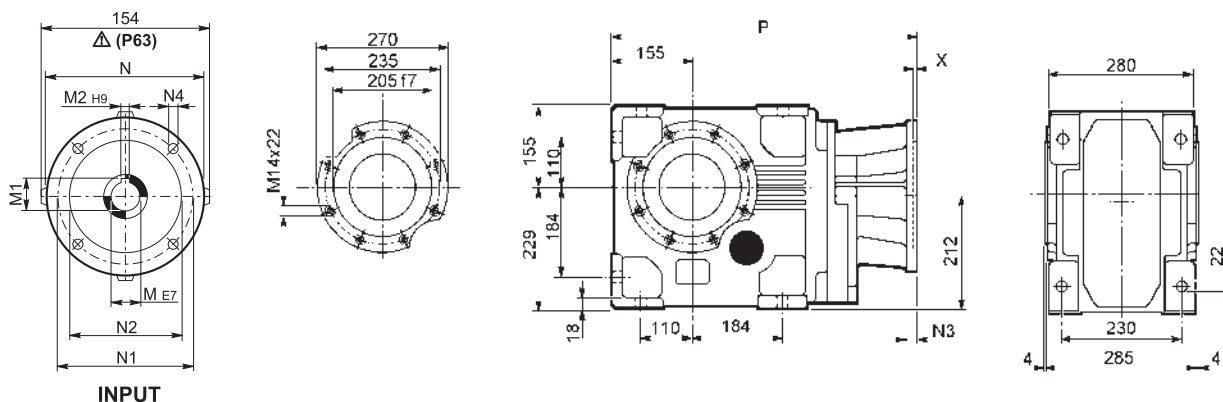
A 60...UV



* Atenerse a las INSTRUCCIONES DE MONTAJE suministradas con el reductor.

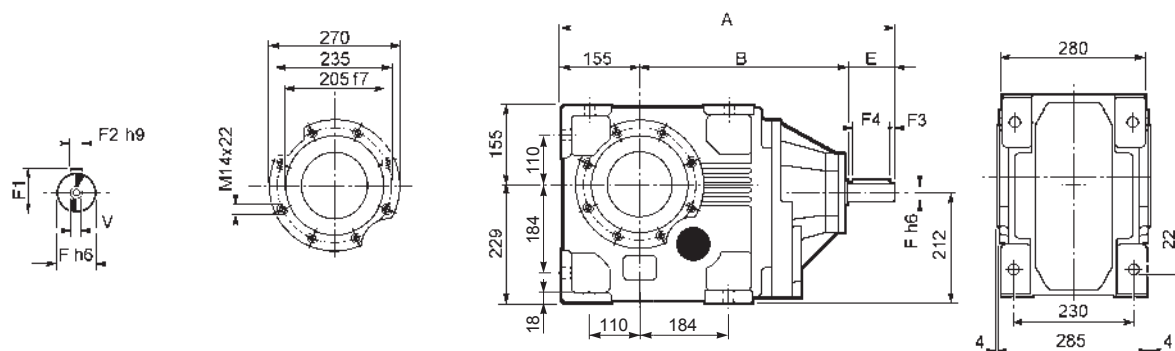


A 70...P (IEC)

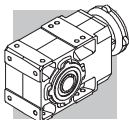


		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 70 3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	524	144
A 70 3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	524	144
A 70 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	534	146
A 70 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	534	146
A 70 3	P132	38	41.3	10	300	265	230	16	14	5	570.5	154
A 70 3	P160	42	45.3	12	350	300	250	23	18	6	626	169
A 70 3	P180	48	51.8	14	350	300	250	23	18	6	626	169
A 70 3	P200	55	59.3	16	400	350	300	—	M16x25	7	651	179
A 70 4	P63	11	12.8	4	140	115	95	—	M8x19	4	555.5	146
A 70 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	555.5	146
A 70 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	575	147
A 70 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	575	147
A 70 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	585	148
A 70 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	585	148
A 70 4	P132	38	41.3	10	300	265	230	16	14	5	618.5	157

A 70...HS

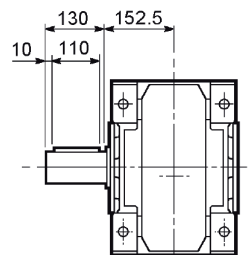
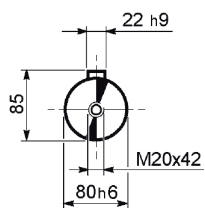


		A	B	E	F	F1	F2	F3	F4	V	Kg
A 70 3	HS	708.5	443.5	110	42	45	12	10	90	M12x28	165
A 70 4		644.5	439.5	50	24	27	8	2.5	45	M8x19	149

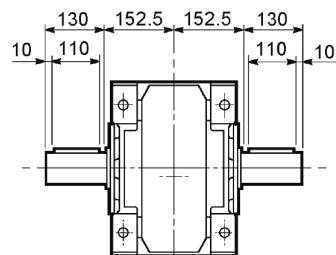
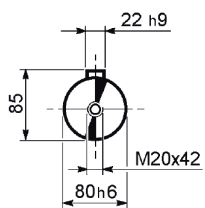


A 70

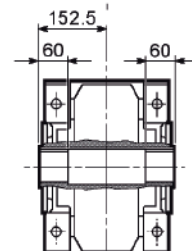
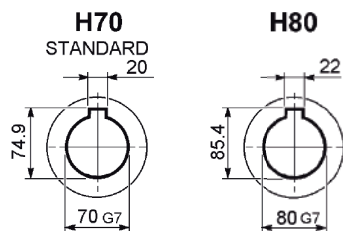
A 70...UR



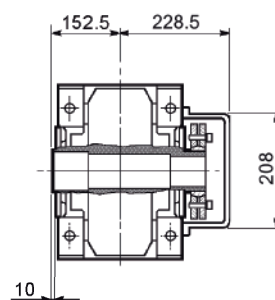
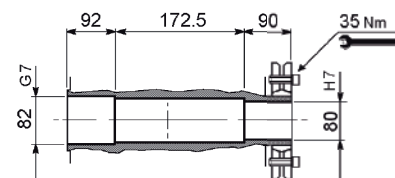
A 70...UD



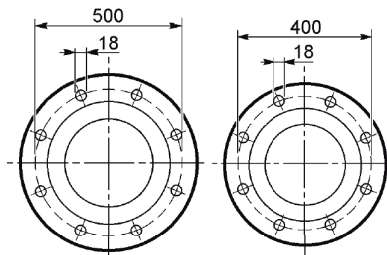
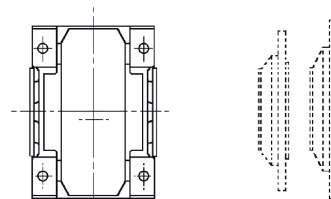
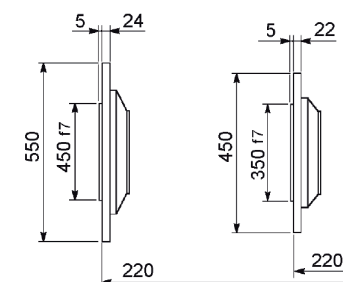
A 70...UH



A 70...US

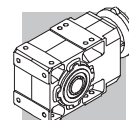


A 70...F...

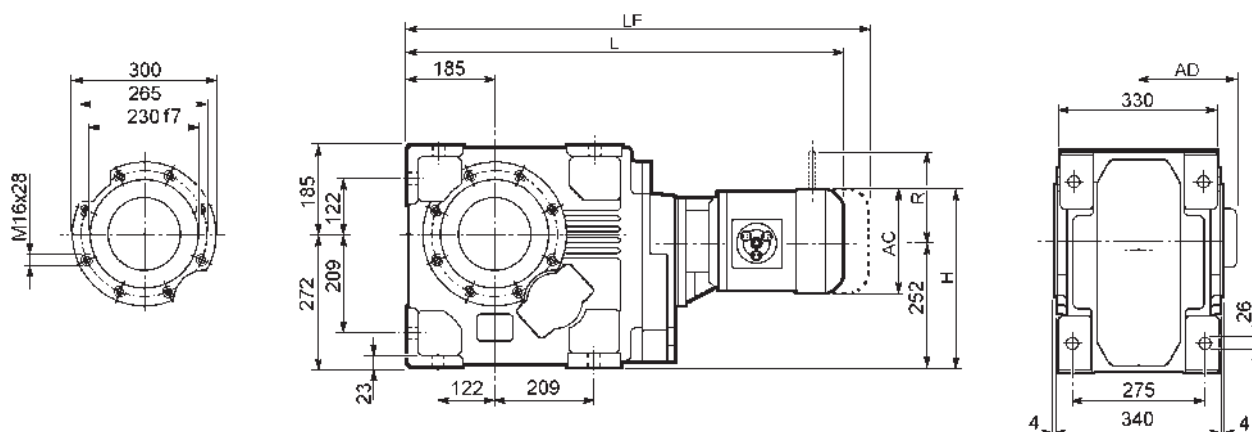


B

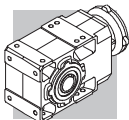
A



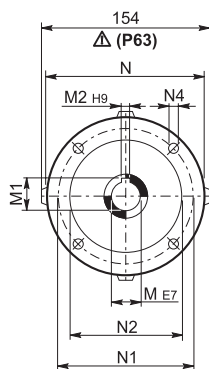
A 80...M



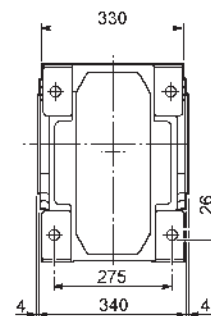
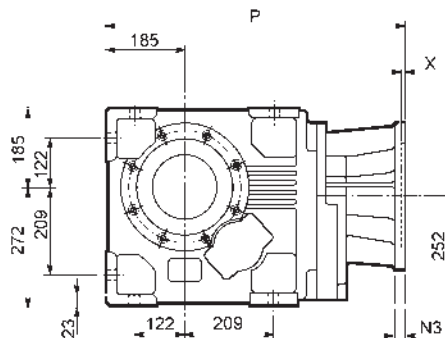
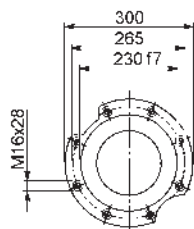
  			AC	H	L	AD	Kg	M...FD M...FA		M...FD		M...FA	
								LF	Kg	R	AD	R	AD
A 80 3	S3	M3S	195	349.5	809.5	142	256	905.5	264	160	158	160	142
A 80 3	S3	M3L	195	349.5	841.5	142	264	932.5	271	160	158	160	142
A 80 3	S4	M4	258	381	949.5	193	298	1058.5	316	226	210	217	193
A 80 3	S4	M4LC	258	381	984.5	193	306	1083.5	324	226	210	217	193
A 80 3	S5	M5S	310	407	1036	245	326	1176	356	266	245	247	245
A 80 3	S5	M5L	310	407	1080	245	342	1220	372	266	245	247	245
A 80 4	S1	M1	138	321	800.5	108	246	861.5	249	103	135	124	108
A 80 4	S2	M2S	156	330	829.5	119	250	899.5	254	129	146	134	119
A 80 4	S3	M3S	195	349.5	872.5	142	255	968.5	262	160	158	160	142
A 80 4	S3	M3L	195	349.5	904.5	142	262	995.5	269	160	158	160	142
A 80 4	S4	M4	258	381	1012.5	193	296	1121.5	314	226	210	217	193
A 80 4	S4	M4LC	258	381	1047.5	193	304	1146.5	322	226	210	217	193



A 80...P(IEC)

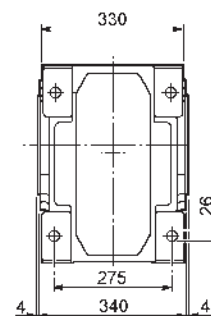
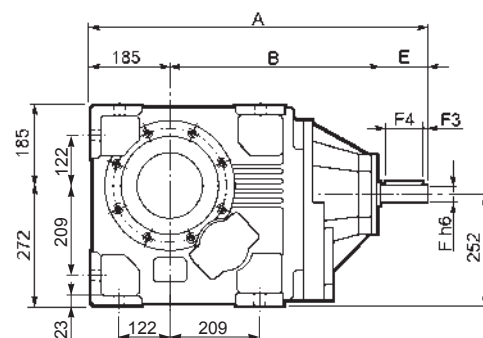
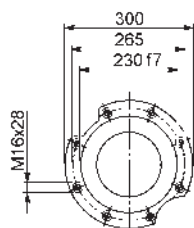
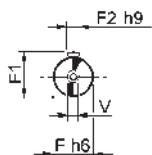


INPUT

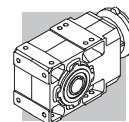


		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 80 3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	602	243
A 80 3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	602	243
A 80 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	612	245
A 80 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	612	245
A 80 3	P132	38	41.3	10	300	265	230	16	14	5	648.5	253
A 80 3	P160	42	45.3	12	350	300	250	23	18	6	704	268
A 80 3	P180	48	51.8	14	350	300	250	23	18	6	704	268
A 80 3	P200	55	59.3	16	400	350	300	—	M16x25	7	729	279
A 80 3	P225	60	64.4	18	450	400	350	25	18	6	774.5	298
A 80 4	P63	11	12.8	4	140	115	95	—	M8x19	4	645.5	248
A 80 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	645.5	248
A 80 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	665	249
A 80 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	665	249
A 80 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	675	250
A 80 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	675	250
A 80 4	P132	38	41.3	10	300	265	230	16	M12x16	5	711.5	259

A 80...HS

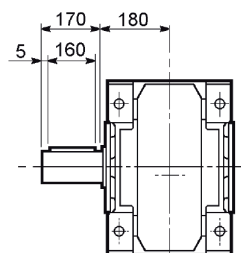
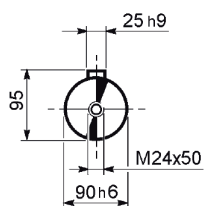


		A	B	E	F	F1	F2	F3	F4	V	Kg
A 80 3	HS	786.5	491.5	110	42	45	12	10	90	M12x28	265
A 80 4		735	500	50	24	27	8	2.5	45	M8x19	250

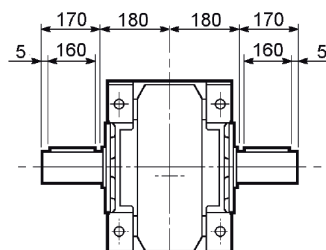
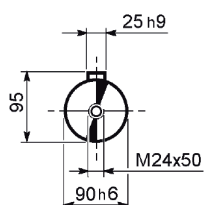


A 80

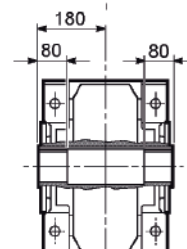
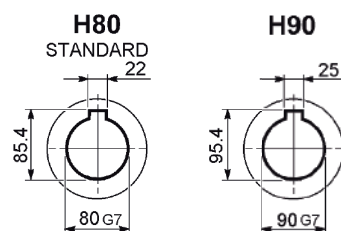
A 80...UR



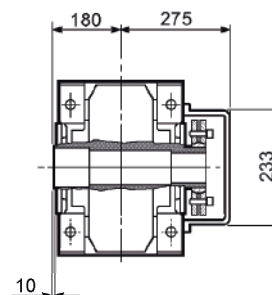
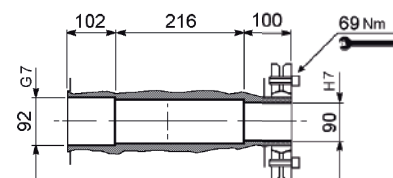
A 80...UD



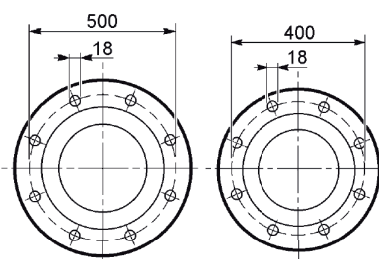
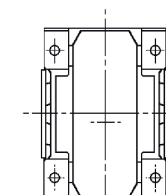
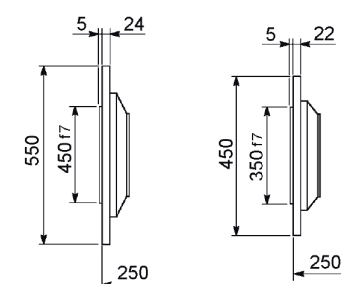
A 80...UH



A 80...US

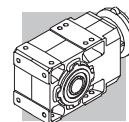


A 80...F...

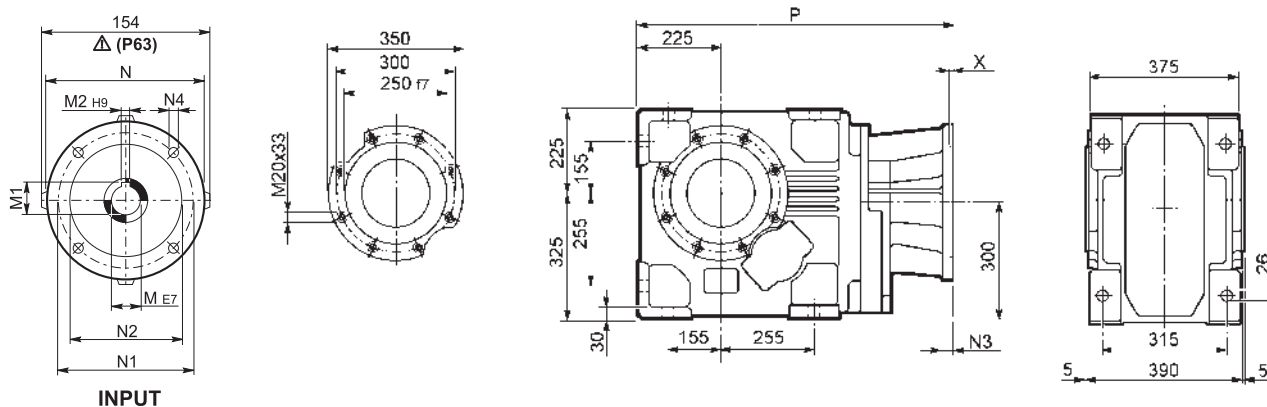


B

A

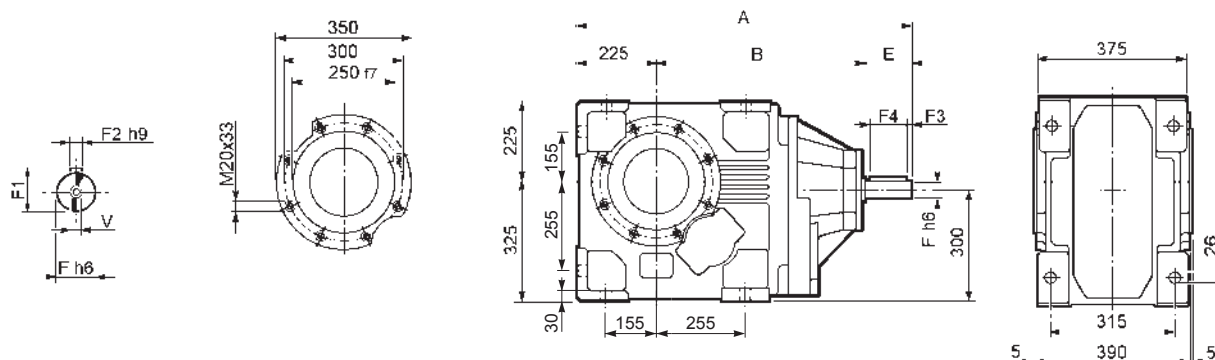


A 90...P (IEC)

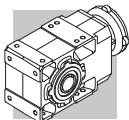


		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
A 90 3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	723	400
A 90 3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	723	400
A 90 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	733	401
A 90 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	733	401
A 90 3	P132	38	41.3	10	300	265	230	16	14	5	769.5	409
A 90 3	P160	42	45.3	12	350	300	250	23	18	6	825	428
A 90 3	P180	48	51.8	14	350	300	250	23	18	6	825	429
A 90 3	P200	55	59.3	16	400	350	300	—	M16x25	7	850	436
A 90 3	P225	60	64.4	18	450	400	350	30	18	6	895.5	472
A 90 3	P250	65	69.4	18	550	500	450	30	18	6	925.5	475
A 90 4	P63	11	12.8	4	140	115	95	—	M8x19	4	786.5	411
A 90 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	786.5	412
A 90 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	806	413
A 90 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	806	413
A 90 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	816	415
A 90 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	816	415
A 90 4	P132	38	41.3	10	300	265	230	16	14	5	852.5	423
A 90 4	P160	42	45.3	12	350	300	250	23	18	5.5	903	434
A 90 4	P180	48	51.8	14	350	300	250	23	18	5.5	903	434

A 90...HS

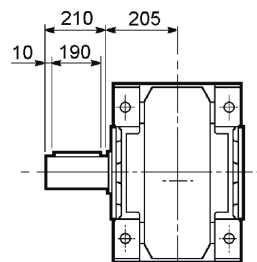
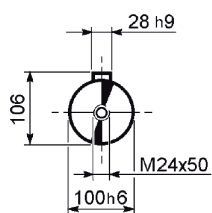


		A	B	E	F	F1	F2	F3	F4	V	Kg
A 90 3	HS	1009	644	140	60	64	18	10	120	M16x36	465
A 90 4		875.5	600.5	50	24	27	8	2.5	45	M8x19	415

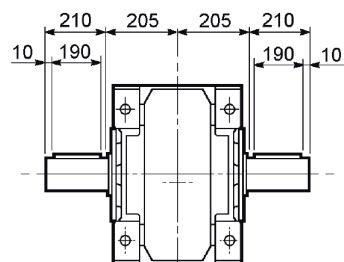
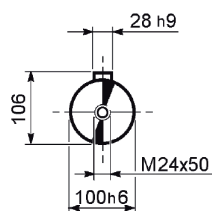


A 90

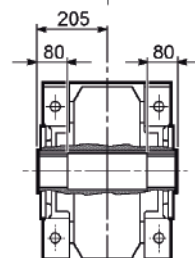
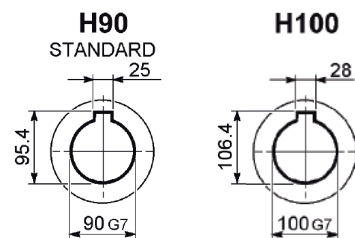
A 90...UR



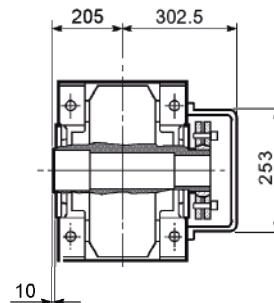
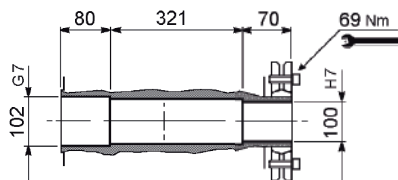
A 90...UD



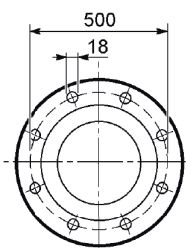
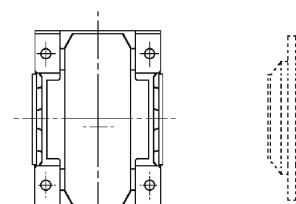
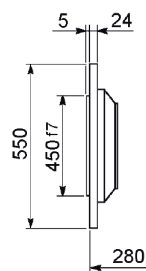
A 90...UH



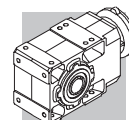
A 90...US



A 90...F...

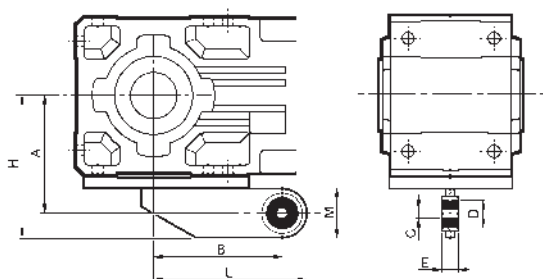


A

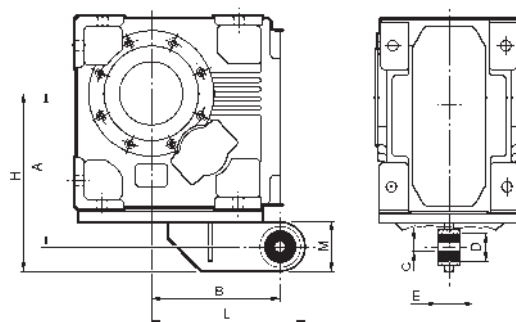


44 DIMENSIONES DE REDUCTORES CON BRAZO DE TORSIÓN

A 05 ... A 60



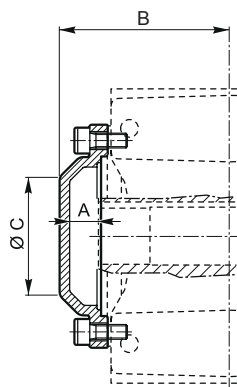
A 70 ... A 90



	A	B	C	D	E	H	L	M
A05	90.5	80	10	30	20	115.5	105	50
A10	108	118	10	30	20	138	148	60
A20	118	137	10	30	20	148	167	60
A30	135	150	20	40	25	170	185	70
A35	145	165	20	40	25	180	200	70
A41	157	200	20	40	25	192	235	70
A50	200	250	32	56	40	245	295	90
A55	200	250	32	56	40	245	295	90
A60	225	300	32	56	40	270	345	90
A70	289	250	32	56	40	334	295	90
A80	357	300	42	78	60	422	365	130
A90	410	350	42	78	60	475	415	130

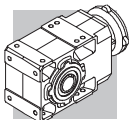
45 DIMENSIONES DE REDUCTORES CON TAPA DE PROTECCIÓN

A 05 ... A 90



	A	Ø C	B
A 05	17.5	36	73.5
A 10	20.5	60	84.5
A 20	20	75	94
A 30	20	75	104
A 35	19.5	80	114
A 41	21	110	120
A 50	26	100	148.5
A 55	27	100	149
A 60	25	100	158
A 70	33.5	120	193.5
A 80	38	140	228
A 90	43	152	258

Las dimensiones comunes a las demás configuraciones se muestran desde la página 299 hasta la página 342

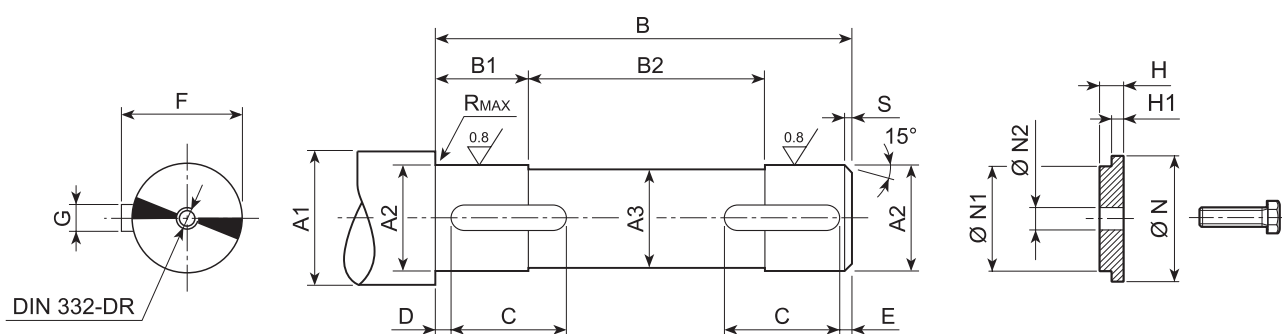


46 EJE MAQUINA

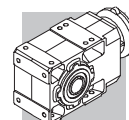
En la construcción del eje de la máquina que ha de acoplarse al reductor utilizar acero de buena calidad y efectuar la mecanización como se indica en el esquema siguiente.

Aconsejamos, además, completar que asegure la fijación axial del eje (no diseñado). La cantidad y dimensiones del/de lo/s taladro/s roscado/s en la extremidad del eje se determinará/ n según las diversas exigencias de la aplicación.

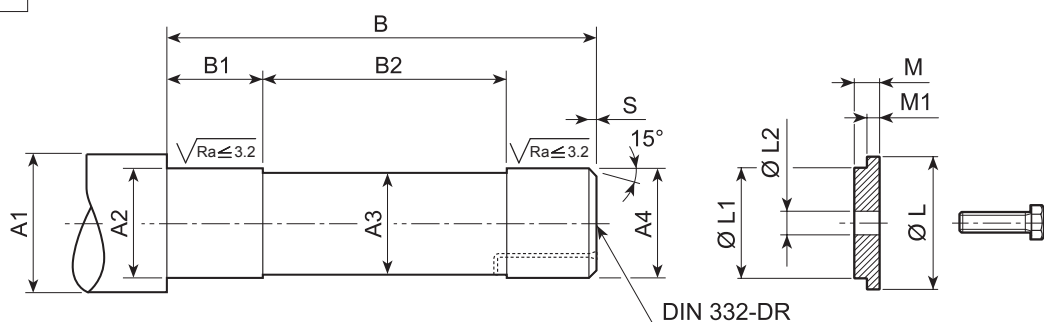
UH_



	A1	A2	A3	B	B1	B2	C	D	E	F	G	R	S		N	N1	N2	H	H1	
														UNI 6604						UNI 5739
A05 UH25	≥ 30	25 h7	24	102	21	62	20	2	2	28	8 h9	0.5	1.5	8x7x20 A	35	25 d9	9	7	5.5	M8x25
A10 UH30	≥ 35	30 h7	29	118	16	87	20	2	2	33	8 h9	0.5	1.5	8x7x20 A	35	30 d9	11	8.5	7	M10x30
A10 UH25	≥ 30	25 h7	24	118	16	87	20	2	2	28	8 h9	0.5	1.5	8x7x20 A	30+35	25 d9	9	7	5.5	M8x25
A20 UH35	≥ 42	35 h7	34	138	20	98	20	2	2	38	10 h9	0.5	1.5	10x8x20 A	42	35 d9	11	8.5	7	M10x30
A20 UH30	≥ 35	30 h7	29	138	20	98	25	2	2	33	8 h9	0.5	1.5	8x7x25 A	35+42	30 d9	11	8.5	7	M10x30
A30 UH40	≥ 47	40 h7	39	158	23	112	30	2	2	43	12 h9	0.5	1.5	12x8x30 A	47	40 d9	14	8.5	7	M12x35
A30 UH35	≥ 42	35 h7	34	158	23	112	30	2	2	38	10 h9	0.5	1.5	10x8x30 A	42+47	35 d9	11	8.5	7	M10x30
A35 UH40	≥ 47	40 h7	39	175	33	109	40	2	2	43	12 h9	1	1.5	12x8x40 A	47	40 d9	14	8.5	7	M12x35
A35 UH35	≥ 42	35 h7	34	175	33	109	40	2	2	38	10 h9	1	1.5	10x8x40 A	42+47	35 d9	11	8.5	7	M10x30
A41 UH45	≥ 52	45 h7	44	184	28	128	45	2.5	2.5	48.5	14 h9	1	2	14x9x45 A	52	45 d9	14	8.5	7	M12x35
A41 UH40	≥ 47	40 h7	39	184	28	128	50	2.5	2.5	43	12 h9	1	2	12x8x50 A	47+52	40 d9	14	8.5	7	M12x35
A50 UH55	≥ 63	55 h7	54	226	37.5	151	55	2.5	2.5	59	16 h9	1	2	16x10x55 A	63	55 d9	22	10	8	M20x50
A50 UH50	≥ 57	50 h7	49	226	37.5	151	65	2.5	2.5	53.5	14 h9	1	2	14x9x65 A	57+63	50 d9	18	10	8	M16x45
A55 UH60	≥ 70	60 h7	59	226	37.5	151	65	2.5	2.5	64	18 h9	2	2	18x11x65 A	70	60 d9	22	10	8	M20x50
A55 UH50	≥ 60	50 h7	49	226	37.5	151	75	2.5	2.5	53.5	14 h9	2	2	14x9x75 A	60+70	50 d9	18	10	8	M16x45
A60 UH70	≥ 78	70 h7	69	248	48	152	70	2.5	2.5	74.5	20 h9	2.5	2	20x12x70 A	78	70 d9	22	10	8.5	M20x50
A60 UH60	≥ 68	60 h7	59	248	48	152	80	2.5	2.5	64	18 h9	2.5	2	18x11x80 A	68+78	60 d9	22	10	8.5	M20x50
A70 UH80	≥ 89	80 h7	79	303	58	187	90	3	3	85	22 h9	2.5	2.5	22x14x90 A	89	80 d9	22	10	8.5	M20x50
A70 UH70	≥ 78	70 h7	69	303	58	187	110	3	3	74.5	20 h9	2.5	2.5	20x12x110 A	78+89	70 d9	22	10	8.5	M20x50
A80 UH90	≥ 99	90 h7	89	358	78	202	120	3	3	95	25 h9	2.5	2.5	25x14x120 A	99	90 d9	26	22	20.5	M24x70
A80 UH80	≥ 89	80 h7	79	358	78	202	130	3	3	85	22 h9	2.5	2.5	22x14x130 A	89+99	80 d9	22	10	8.5	M20x50
A90 UH100	≥ 111	100 h7	99	408	78	252	160	3	3	106	28 h9	2.5	2.5	28x16x160 A	111	100 d9	26	22	20.5	M24x70
A90 UH90	≥ 99	90 h7	89	408	78	252	190	3	3	95	25 h9	2.5	2.5	25x14x190 A	99+111	90 d9	26	22	20.5	M24x70

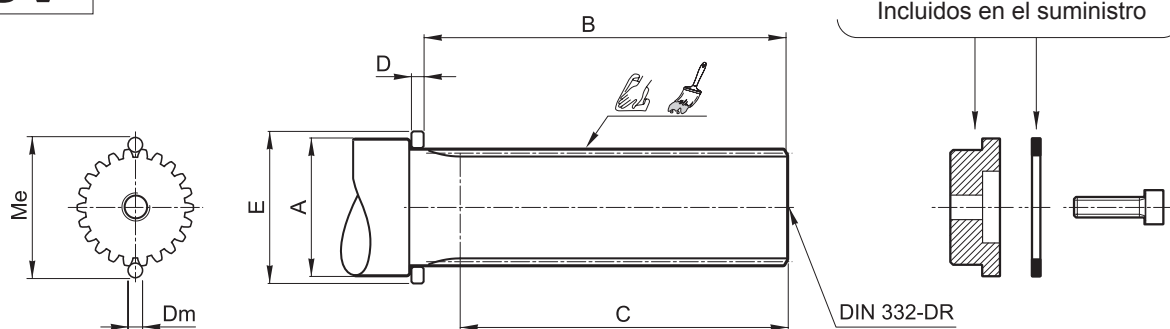


US

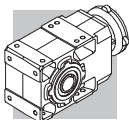


	A1	A2	A3	A4	B	B1	B2	R	S	L	L1	L2	M	M1	 UNI 5739
A 05	≥ 35	27 h7	24	25 h6	129.5	32	63.5	0.5	1.5	29.5	25 d9	11	8.5	7	M10x30
A 10	≥ 42	32 h7	29	30 h6	147.5	34	77.5	0.5	1.5	35.5	30 d9	11	8.5	7	M10x30
A 20	≥ 48	37 h7	34	35 h6	170	40	89	0.5	1.5	43	35 d9	14	8.5	7	M12x35
A 30	≥ 54	42 h7	39	40 h6	191.5	48	95.5	0.5	1.5	49	40 d9	18	10	8.5	M16x45
A 35	≥ 54	42 h7	39	40 h6	208.5	48	112.5	0.5	1.5	49	40 d9	18	10	8.5	M16x45
A 41	≥ 60	47 h7	44	45 h6	222	53	117	1	2	54	45 d9	18	10	8.5	M16x45
A 50	≥ 72	57 h7	54	55 g6	264	46	156	1	2	72	55 d9	22	10	8.5	M20x50
A 55	≥ 72	62 h7	59	60 g6	266	46	158	2.5	2	72	60 d9	22	10	8.5	M20x50
A 60	≥ 90	72 h7	69	70 g6	293	48	178	2.5	2.5	85	70 d9	22	10	8.5	M20x50
A 70	≥ 104	82 h7	79	80 g6	352.5	90	172.5	2.5	2.5	95	80 d9	22	10	8.5	M20x50
A 80	≥ 114	92 h7	89	90 g6	416	100	216	2.5	2.5	105	90 d9	26	22	20.5	M24x70
A 90	≥ 126	102 h7	99	100 g6	469	78	321	2.5	2.5	120	100 d9	26	22	20.5	M24x70

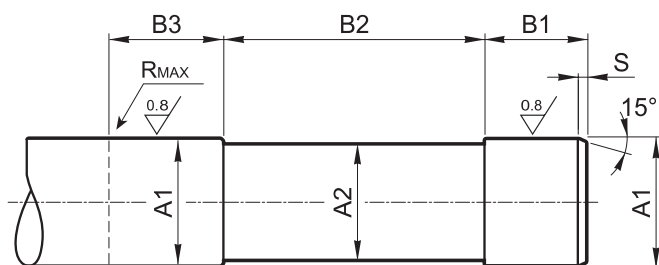
UV



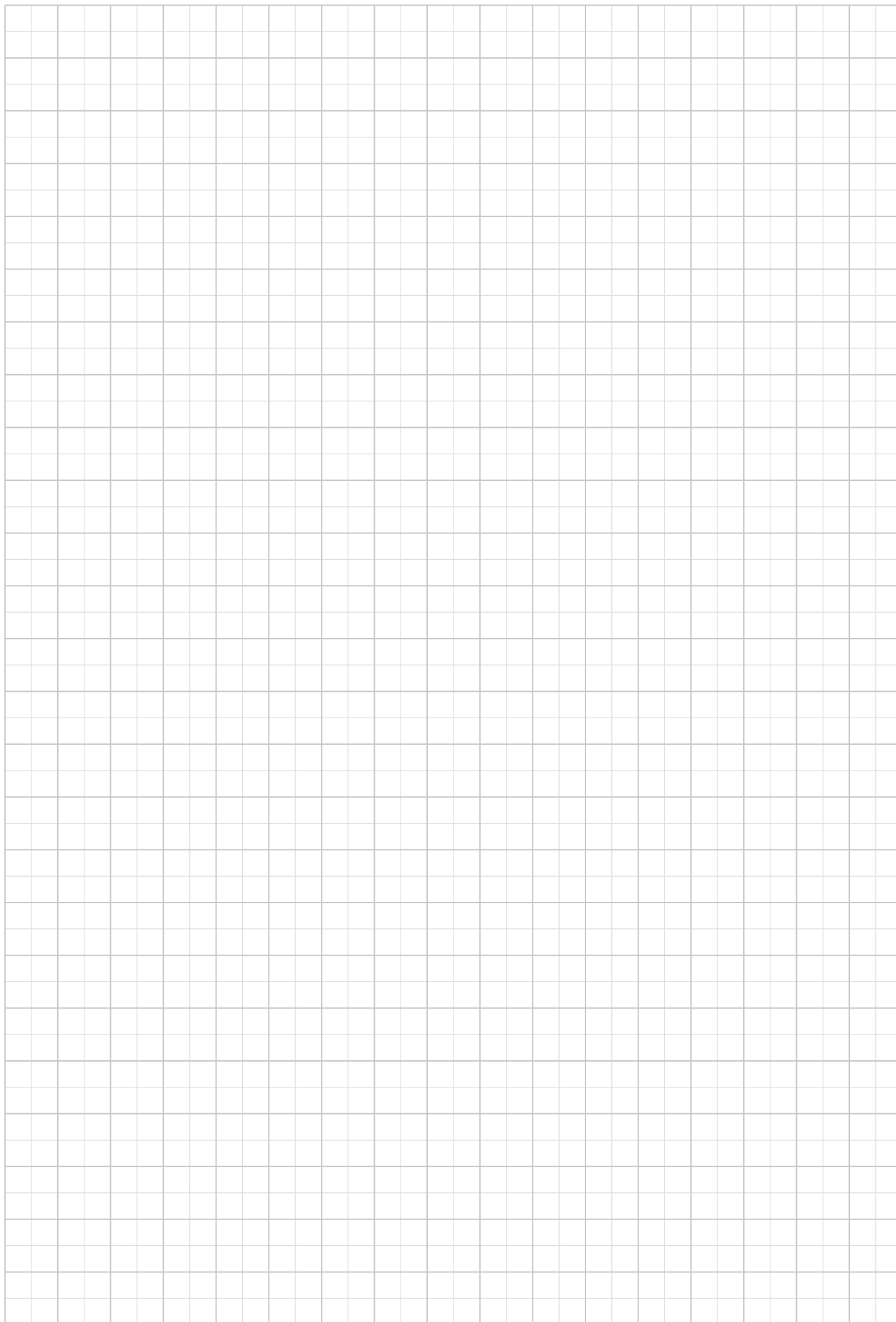
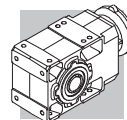
	 DIN 5480	Me	Dm	A	B	C	D	E	 ISO 4762
A 20	30x1.25x22	33.04 +0/-0.04	2.75	≥ 40	111.5	≥ 95	7	45	M10x35
A 30	35x2x16	38.93 +0/-0.04	4	≥ 45	130.5	≥ 112	7	50	M12x40
A 35	35x2x16	38.93 +0/-0.04	4	≥ 45	147.5	≥ 129	7	50	M12x40
A 41	45x2x21	48.86 +0/-0.04	4	≥ 55	155.5	≥ 136	7	60	M16x45
A 50	50x2x24	54.14 +0/-0.05	4	≥ 60	196	≥ 175	7	65	M16x45
A 55	50x2x24	54.14 +0/-0.05	4	≥ 60	196	≥ 175	7	65	M16x45
A 60	65x2x31	68.97 +0/-0.05	4	≥ 75	213.5	≥ 191	7	80	M20x55

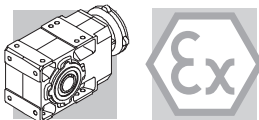


QF



		A1	A2	B1	B2	B3	S
A 10	QF25	25 h6	24	41	95	≥ 50	1.5
	QF30	30 h6	29				
A 20	QF25	25 h6	24	41	115	≥ 50	1.5
	QF30	30 h6	29				
A 30	QF35	35 h6	34	45	130	≥ 54	1.5
	QF40	40 h6	39				
A 35	QF35	35 h6	34	45	146.5	≥ 54	1.5
	QF40	40 h6	39				
A 41	QF40	40 h6	39	47	151.5	≥ 56	2
	QF45	45 h6	44				
A 50	QF50	50 h6	49	48	197	≥ 57	2
	QF55	55 h6	54				
A 55	QF55	55 h6	54	50	190	≥ 59	2
	QF60	60 h6	59				
A 60	QF60	60 h6	59	57	203	≥ 66	2.5
	QF65	65 h6	64				
	QF70	70 h6	69				





REDUCTORES ORTOGONALES SERIE A CON DIRECTIVA ATEX

47 INTRODUCCIÓN A LAS DIRECTIVAS DE ATEX

47.1 Atmósfera explosiva

Una **atmósfera explosiva** a efectos de la directiva 2014/34/UE se define como una mezcla:

- a. de **sustancias inflamables**, en forma de gas, de vapor, neblina i polvo.
- b. con **aire**;
- c. bajo condiciones ambientales;
- d. en donde, despues de la ignicion, la combustion se propaga a la totalidad de la mezcla no combustionada. (hay que tener en cuenta que a veces, generalmente con el polvo, la cantidad de material combustible no siempre se consume con la combustion.

Una atmósfera, la qual puede ser explosiva debido a unas condiciones locales i/o operatias predeterminadas, se llama **atmósfera potencialmente explosiva**

Es solo en este tipo de atmósfera potencialmente exposiva donde los productos deben estar diseñados bajo la directiva 2014/34/UE.

47.2 Normativa Europea de armonización ATEX

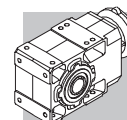
La directiva 2014/34/UE estipula los requerimientos minimos de seguridad para los productos destinados a su uso en areas de riesgo de explosion dentro de los paises miembros de la Unión Europea. La directiva también establece el equipamiento segun **categorías**, que estan definidos por la misma directiva.

La siguiente tabla describe las **zonas** en la que el usuario de planta, dentro de una atmósfera explosiva, debe subdividir las areas de aplicación del equipo.

(C 1)

Zonas		Frecuencia de la formación de atmósfera potencialmente explosiva	Tipo de peligro
Atmósfera gas G	Atmósfera polvo D		
0	20	Presencia constante o por largos periodos	Permanente
1	21	Ocasionalmente en funcionamiento normal	Potencial
2	22	Muy rara y/o de breve duración en funcionamiento normal	Mínimo

Los Reductores Bonfiglioli seleccionados en este catalogo, están marcados para su instalacion en zonas 1 , 21, tal y como se resalta en color gris claro en la tabla anterior y también son adecuados para la instalación en áreas con un nivel más bajo de protección (zonas 2 y 22).



Desde el 20 de Abril de 2016, la directiva Atex 2014/34/UE se aplica en todo el territorio de la Unión Europea y sustituye las diferentes leyes en vigor hasta los niveles nacionales y europeas en el campo de atmósferas explosivas y la anterior Directiva 94/9/EC.

Cabe destacar, que, por primera vez, las directivas también gobiernan tanto equipos mecánicos, hidráulicos y neumáticos, y no solo los equipos eléctricos como hasta ahora.

Con respecto a la Directiva de Máquinas 2006/42/EC, cabe remarcar que la directiva 2014/34/UE es un conjunto de requisitos muy específicos dedicados a los peligros derivados de las atmósferas potencialmente explosivas, mientras que la Directiva contiene solo unos requisitos muy generales en cuanto a seguridad de explosión se refiere (Anexo 1)

En consecuencia, respecto a la protección contra explosión en atmósferas potencialmente explosivas, la Directiva 2014/34/UE tiene prioridad sobre la Directiva de Máquinas.

Los requisitos de la Directiva de máquinas se aplican a todos los demás riesgos relacionados con la maquinaria.

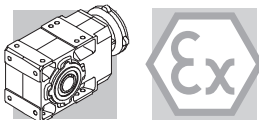
47.3 Niveles de protección para las diferentes categorías de equipos

Las diferentes categorías de equipamientos deben ser capaces de funcionar en conformidad con las especificaciones operativas del fabricante, a determinados niveles de protección.

La disponibilidad de los productos BONFIGLIOLI RIDUTTORI son resaltados en gris.

(C 2)

Nivel de protección	Categoría		Tipo de protección	Condiciones de funcionamiento
	Grupo I	Grupo II		
Muy elevado	M1		Dos sistemas independientes de protección ó seguridad capaces de funcionar incluso cuando ocurren dos averías independientes.	Los aparatos permanecen alimentados y en funcionamiento incluso en presencia de atmósfera explosiva.
Muy elevado		1	Dos medios de protección independientes o seguridad garantizada incluso si se producen dos faltas independientes.	Los aparatos permanecen alimentados y en funcionamiento en las zonas 0, 1, 2 (G) y/o en las zonas 20, 21, 22 (D).
Elevado	M2		Protección adaptada al funcionamiento normal y a condiciones de funcionamiento gravosas	La alimentación de los aparatos se interrumpe en presencia de atmósfera potencialmente explosiva.
Elevado		2	Protección adecuada para funcionamiento normal y fallos frecuentes o equipos en los que el mal funcionamiento es normal.	Los aparatos se mantienen alimentados y en funcionamiento en las zonas 1, 2 (G) y/o en las zonas 21, 22 (D).
Normal		3	Protección adaptada al funcionamiento normal	Los aparatos se mantienen alimentados y en funcionamiento en las zonas 2 (G) y/o 22 (D).



47.4 Definición de grupos

Grupo I: Se aplica el equipamiento destinado al uso bajo tierra en minas y en aquellas partes de instalaciones de planta de dichas minas, expuestas a los peligros de grisú i/o polvo combustible.

Grupo II: Se aplica en el equipamiento destinado al uso en otros lugares expuestos a los peligros de una atmósfera explosiva.

Por lo tanto, los productos BONFIGLIOLI RIDUTTORI, no pueden ser instalados en minas, clasificadas en el Grupo I y Grupo II, categoría 1.

Como resumen, la clasificación de los equipos por grupos, categorías y zonas, son ilustrados en la tabla adjunta, donde por disponibilidad de los productos BONFIGLIOLI RIDUTTORI, son resaltados en gris.

(C 3)

Grupo	I		II					
	Minas, grisú		Otras zonas potencialmente explosivas por presencia de gas o polvo.					
Categoría	M1	M2	1		2		3	
Atmósfera ⁽¹⁾			G	D	G	D	G	D
Zona			0	20	1	21	2	22
Tipo de protección del reductor					Ex h Gb	Ex h Db	Ex h Gc	Ex h Dc

⁽¹⁾ G = gas D = polvo

Los productos descritos aquí en conformidad con los requisitos mínimos de la Directiva Europea 2014/34/UE, donde está parte de la Directiva conocida como ATEX (ATmosferas EXplosivas)

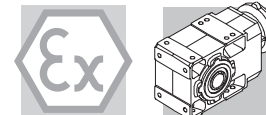
47.5 Declaración de conformidad

La declaración de conformidad, es el documento que da fe de la conformidad del producto con la Directiva 2014/34/UE.

La validez del certificado está unida de las instrucciones dadas en el manual del usuario, instalación y servicio para el uso seguro del producto durante toda su vida útil.

Este se puede descargar desde www.bonfiglioli.com donde el manual está disponible en formato PDF en varios idiomas.

Las instrucciones con respecto a las condiciones ambientales son de particular importancia. Su incumplimiento durante el funcionamiento del producto hace que el certificado quede nulo y sin efecto. En caso de duda sobre la validez del certificado de conformidad, pongase en contacto con el departamento técnico de BONFIGLIOLI RIDUTTORI.



48 SELECCIÓN

Para realizar una correcta selección de un reductor o reductor con interfaz motor IEC en versión ATEX, es obligatorio comprobar el reductor con verificación mecánica (adoptando un factor de servicio específico denominado f_{ATEX}) y una verificación térmica.

48.1 Verificación Mecánica

Partiendo del par nominal de salida M_{n2} válido para la velocidad de entrada $n_1 = 1400 \text{ min}^{-1}$, aplicar el siguiente factor de servicio:

Para configuración HS, referirse al par nominal de salida M_{n2} válido para velocidad de entrada $n_1 = 1400 \text{ min}^{-1}$ y aplicar $f_{ATEX} = 1.25$, excepto la configuración listada en la siguiente tabla donde $f_{ATEX} = 1.4$

Tamaño	Nº de etapas	Ratio de reducción
A 10	2	$10.6 \leq i \leq 32.2$
A 30	2	$10.5 \leq i \leq 66$
A 35	2	$13.1 \leq i \leq 82.5$
A 41	2	$13.8 \leq i \leq 79.2$

Como consecuencia, $M_2 ATEX = M_{n2} / f_{ATEX}$

Para configuración IEC, seleccionar sólo motorreductores que tengan factor de servicio $\geq 1,4$

En caso de velocidad de entrada superior a 1400 min^{-1} , consulte con el Servicio Técnico de Bonfiglioli.

Carga radial admisible en el eje de entrada: $R_1 ATEX = R_{n1} / 1.5$

Carga radial admisible en el eje de salida: $R_2 ATEX = R_{n2}$

48.2 Verificación Térmica (válida también para selección estándar)

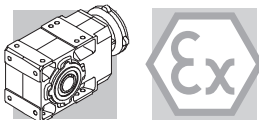
La potencia térmica total P_t se puede calcular mediante la siguiente fórmula:

$$P_t = P_{tB} \times f_{Ta} \times f_{ratio} \times f_{POS} \times f_{INT} \times f_{AIR}$$

Los valores de las capacidades térmicas base P_{tB} , se relacionan en la tabla de flujo y son válidos en las siguientes condiciones de funcionamiento:

- Posición de montaje B3
- Velocidad de entrada 1400 min^{-1} y 2800 min^{-1}
- Temperatura ambiente 20°C
- Espacio confinado (velocidad del aire $\leq 1,4 \text{ m/s}$)
- Altitud $\leq 1000 \text{ m}$.

$P_{tB} [\text{kW}] @ T_a 20^\circ\text{C}$		
	$n_1 = 1400 \text{ min}^{-1}$	$n_1 = 2800 \text{ min}^{-1}$
A 05	2.0	1.5
A 10	2.1	1.5
A 20	6.0	5.4
A 30	8.0	6.6
A 35	9.5	8.2



A 41	11.5	9.6
A 50	20	18
A 55	21	18
A 60	27	23
A 70	31	24
A 80	44	33
A 90	64	48

f_{Ta} = factor de temperatura ambiente

Temperatura ambiente °C	f _{Ta}
20	1.0
30	0.88
40	0.76

f_{ratio} = factor de relación de transmisión

Tamaño del reductor	f _{ratio}	
A05 - A60	0.8 se i ≤ 17	1 se i > 17
A70 - A90	0.8 se i ≤ 13	1 se i > 13

f_{POS} = factor para la posición de montaje

Posición de montaje	coef. correctivo f _{POS}
B3	1.00
B8	1.00
B6	0.9
B7	0.9
VA	0.8
VB	0.8

f_{INT} = factor para servicio intermitente

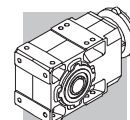
Grado de funcionamiento intermitente %	f _{INT}
100	1.00
80	1.05
70	1.15
40	1.35
20	1.80

f_{AIR} = factor para el tipo de ambiente

Velocidad del aire [m/s]	f _{AIR}
Velocidad del aire ≤ 0,5 m/s, espacios confinados (interiores)	0.75
Velocidad del aire ≤ 1,4 m/s, grandes espacios (interiores)	1.00

Por favor consulte con el Servicio Técnico de Bonfiglioli para configuraciones específicas o datos de aplicación diferentes al estándar.

La condición a verificar es: **Pr1 ≤ Pt**



49 INSTALACIÓN, USO Y MANTENIMIENTO



Toda la descripción relativa a la instalación, uso y mantenimiento del producto esta especificado en el manual relativo.

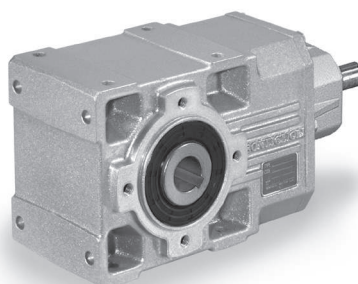
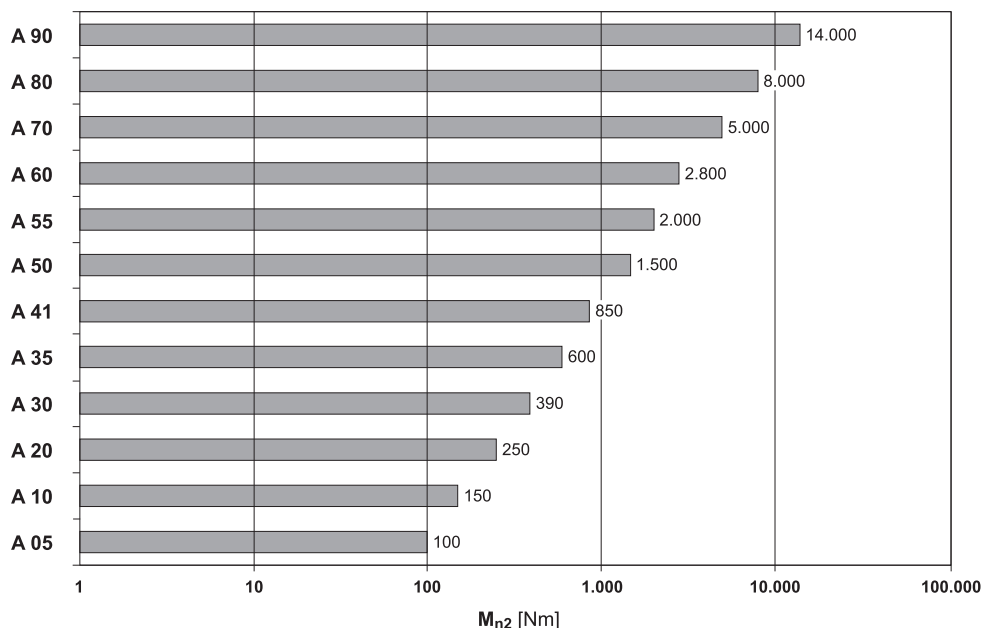
El usuario está invitado a descargar de la dirección www.bonfiglioli.com los manuales disponibles en diferentes idiomas (formato PDF)

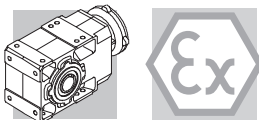
El documento deberá ser conservado en un lugar adecuado, próximo a la zona de instalación del reductor, como referencia para todo el personal autorizado a trabajar con el producto, a lo largo del ciclo de vida del mismo.

50 CARACTERISTICAS CONSTRUCTIVAS DEL GRUPO ATEX

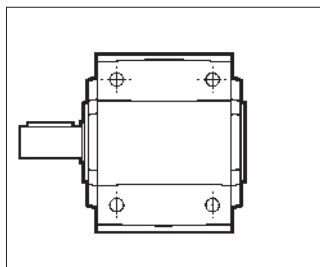
- Dotado de un tapón de servicio para el control periodico del nivel de lubricante.
- Dotado de un tapón de ventilacion con valvula anti-retorno.
- Cargado de lubricante, de tipo sintético, efectuado en fábrica, en función de la posición de montaje especificada en el pedido.
- Anillos de estanqueidad en fluoro-elastomero.
- No existen componentes de plastico
- Placa de identificativa, donde se indica la categoria del producto y el tipo de protección.
- Componentes resistentes por encima de la temperatura limite prevista.
- Dotado de indicadores termosensibles.

(C 4)





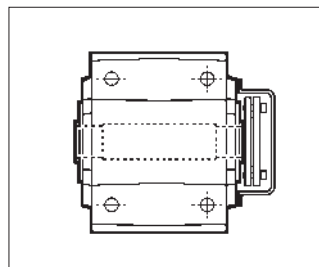
51 FORMA CONSTRUCTIVA



UR

Eje de salida simple

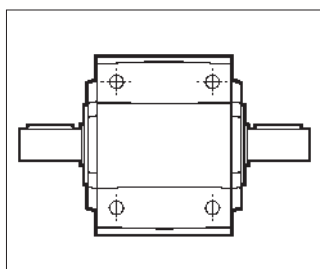
A 10 ... A 90



US

Eje de salida hueco
con aro de apriete

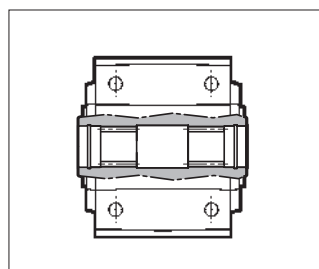
A 05 ... A 90



UD

Eje de salida doble

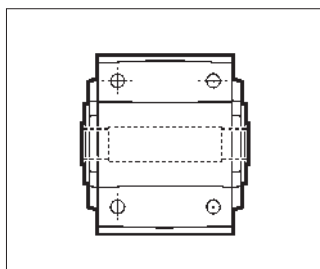
A 10 ... A 90



UV

Eje de salida
estriado DIN 5480

A 20 ... A 60



UH

Eje de salida hueco
con chavetero

A 05 ... A 90

Forma constructiva con brida de acople

Los diagramas muestran las bridas aplicables a la base de montaje y su colocación (①, ②)

UR F1...

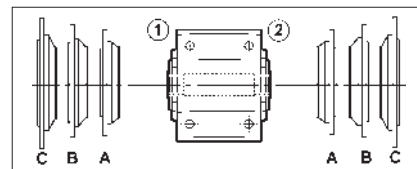
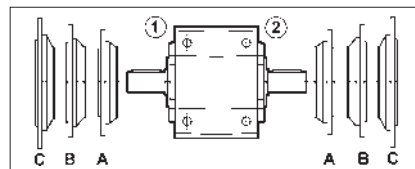
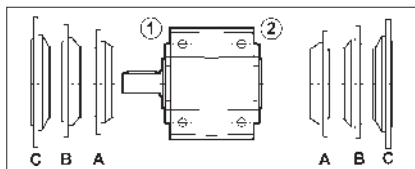
UR F2...

UD F1...

UD F2...

UH... F1...

UH... F2...

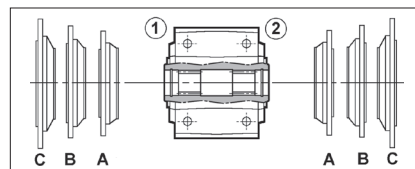
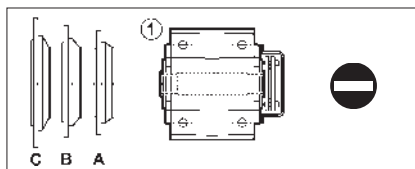


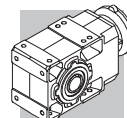
US F1...

US F2...

UV F1...

UV F2...





52 DESIGNACIÓN

REDUCTOR

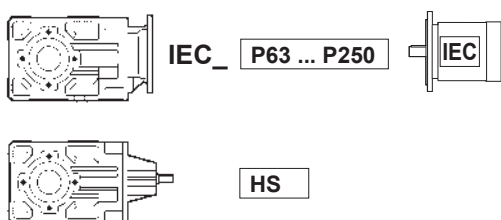
A 50 3 UH50 F1A 99.5 P90 B3 EX

OPCIONES

POSICIÓN DE MONTAJE

B3 (estandar), **B6, B7, B8, VA, VB**

DESIGNACION DE LA ENTRADA



RELACIÓN DE REDUCCIÓN

TAMAÑO Y POSICION DE LA BRIDA DE SALIDA
(especificar solamente si se precisa)

F = Versión embrizada
1, 2 = Posición de la brida
A, B, C = Tamaño de la brida

FORMA CONSTRUCTIVA

											
UH_	UR	UD	US	UV							
	(A 10...A 90)	(A 10...A 90)	(A 05...A 90)	(A 20...A 60)							
A 05	A 10	A 20	A 30	A 35	A 41	A 50	A 55	A 60	A 70	A 80	A 90
UH25	UH25	UH30	UH35	UH40	UH45	UH50	UH60	UH60	UH70	UH80	UH90
—	UH30	UH35	UH40	UH35	UH40	UH55	UH50	UH70	UH80	UH90	UH100

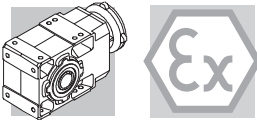
Nº DE ETAPAS DE REDUCCIÓN

2 (A 05...A 60), **3** (A 20...A 90), **4** (A 50...A 90)

TAMAÑO REDUCTOR

05, 10, 20, 30, 35, 41, 50, 55, 60, 70, 80, 90

TIPO: **A** = reductores ortogonales



Opciones de reductores

EX

El reductor puede ser instalado en las zonas 1 y 21 (categorías 2G y 2D)
La temperatura máxima de la superficie del dispositivo es de 135°C.

DOCUMENTACIÓN

Certificado de conformidad (AC)

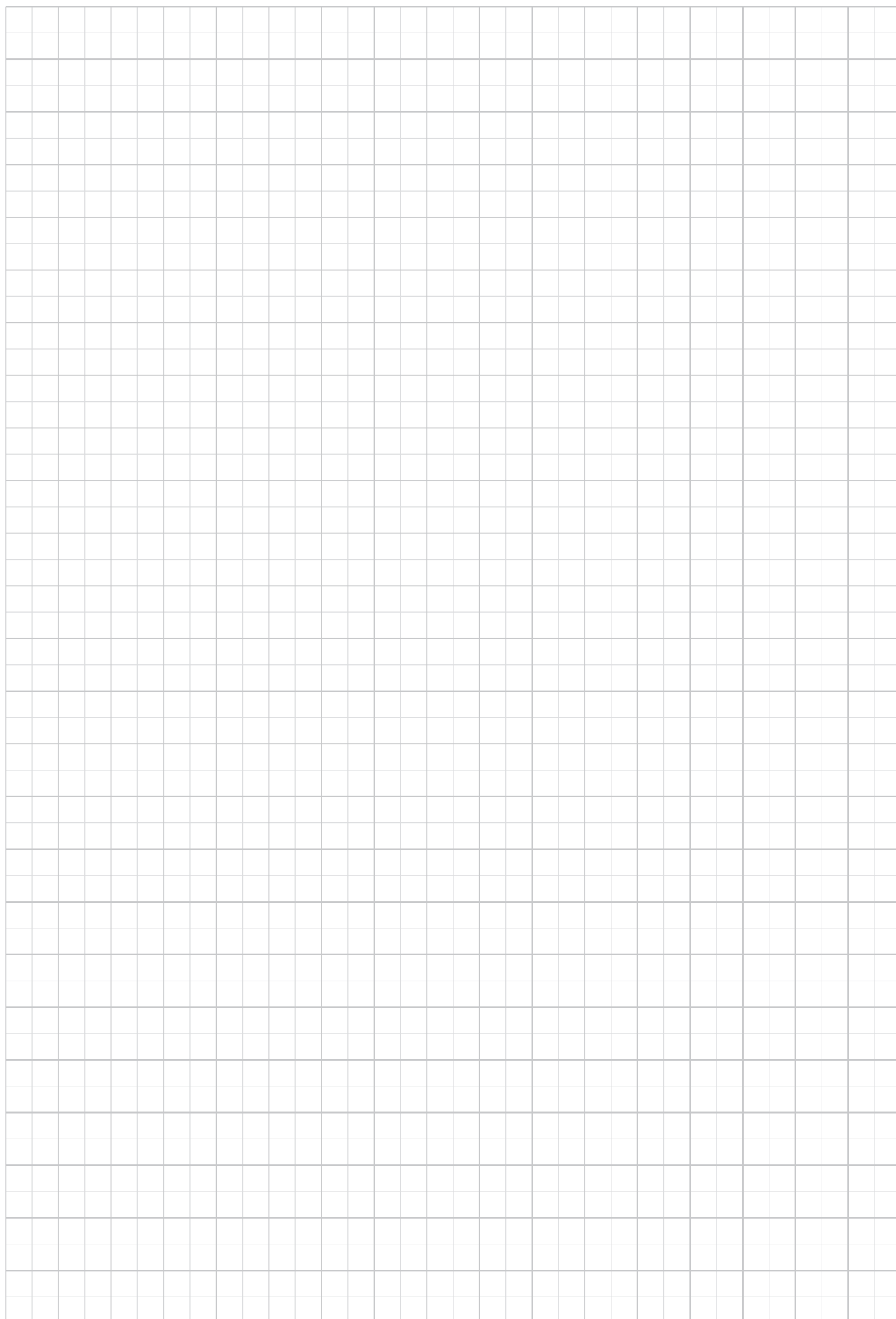
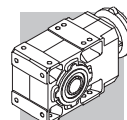
Documento en el cual se certifica la conformidad del producto con lo indicado en el pedido y su fabricación según los procedimientos estándar de producción y control que establece el sistema de calidad de Bonfiglioli Riduttori.

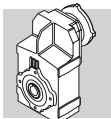
Certificado de prueba (CC)

La obtención de este certificado conlleva verificar la conformidad del producto con el pedido, realizar inspecciones visuales de carácter general y comprobar las dimensiones de acoplamiento. Además, exige realizar controles generales de funcionamiento en vacío y comprobar la eficacia de las juntas de retén con el sistema estático y en funcionamiento. Para llevar a cabo la prueba se utiliza una muestra estadística del lote de expedición.

53 OTRAS INFORMACIONES SOBRE REDUCTORES Y MOTORREDUCTORES

Posiciones de montaje, datos técnicos, disponibilidad de motor, momentos de inercia y dimensiones de las series **A-EX (Atex)** no cambian con respecto a sus equivalentes **A**. Esta información se puede encontrar en los capítulos correspondientes de este catálogo.





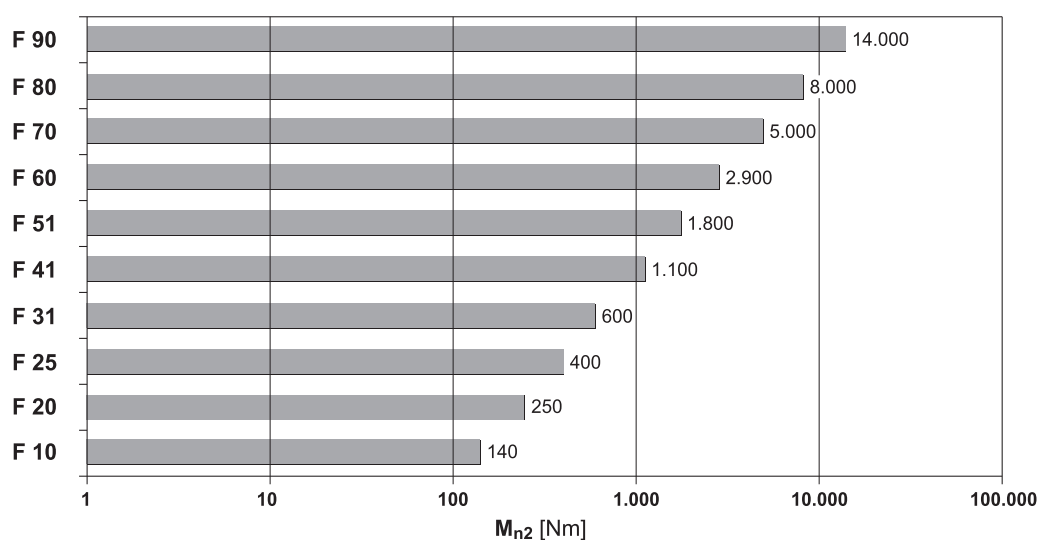
REDUCTORES SERIE F

54 CARACTERÍSTICAS CONSTRUCTIVAS

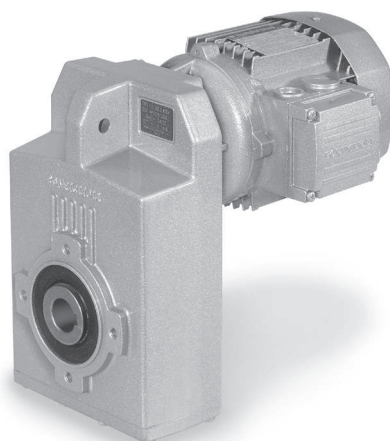
Las principales características constructivas son:

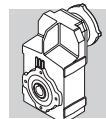
- modularidad
- diseño compacto
- montajes universales
- rendimientos elevados
- bajo nivel de ruido
- engranajes de acero aleado, cementados y templados
- cajas de aluminio sin pintar en los tamaños 10, 20 y 25;
cajas de fundición de alta resistencia pintadas para los otros tamaños.

(D 44)

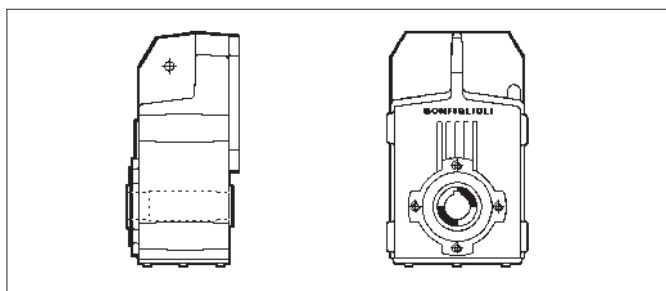


* Para eventuales limitaciones de la forma constructiva QF ver el capítulo "FORMAS CONSTRUCTIVAS"





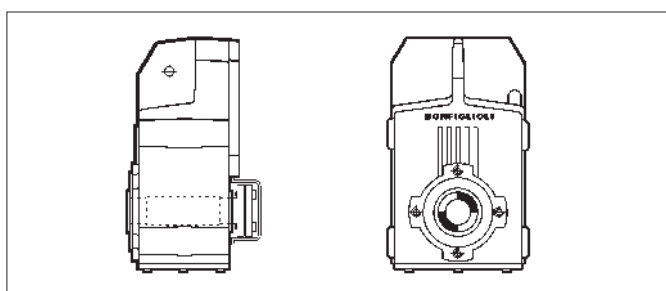
55 FORMAS CONSTRUCTIVA



H

Eje de salida hueco con chavetero

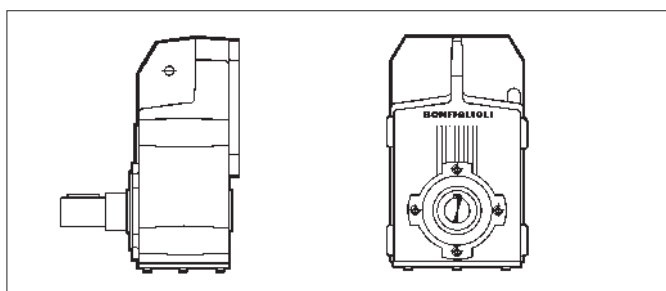
F 10 ... F 90



S

Eje de salida hueco con aro cónico de apriete

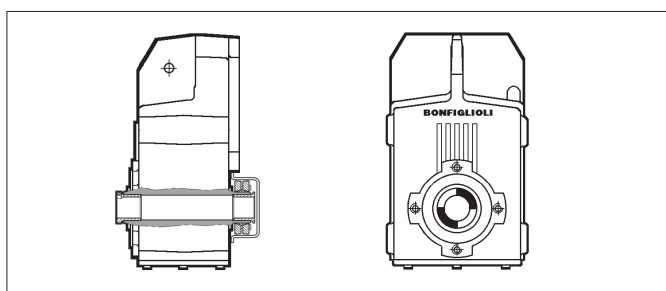
F 10 ... F 90



R

Eje de salida cilíndrico

F 10 ... F 90



QF (Quick-fit)

Eje hueco con casquillo de adaptación y aro de apriete

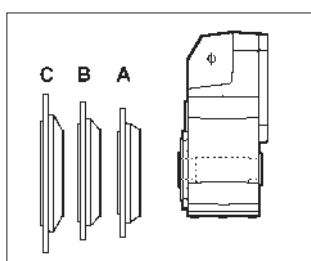
F 10 ... F 60

$M_{n2 \max}$ [Nm]	
F 25 QF30	350
F 41 QF42	850
F 41 QF45	1000
F 51 QF50	1750

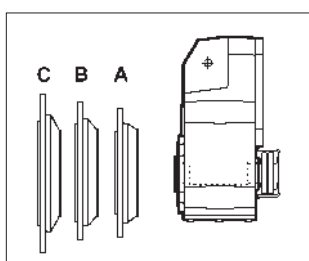
Formas constructivas con brida postiza

Los esquemas reseñados indican las bridas que pueden aplicarse en la forma constructiva base.

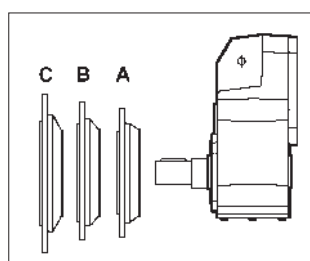
H... F...



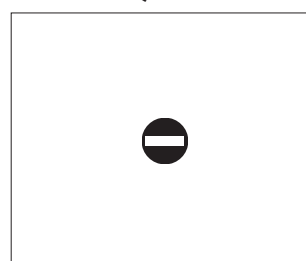
S F...

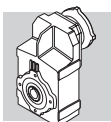


R F...



QF...





56 DESIGNACIÓN

REDUCTOR

F 10 2 H30 FA 48.7 S1 H5

OPCIONES

POSICIÓN DE MONTAJE

H1 (por defecto), **H2, H3, H4, H5, H6**

DESIGNACION DE LA ENTRADA



S05 ... S5



IEC_ P63 ... P250



SK_

SC_



HS

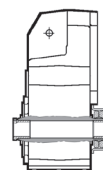
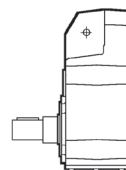
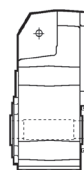
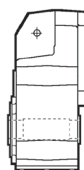
RELACIÓN DE REDUCCIÓN

TAMAÑO DE LA BRIDA DE SALIDA (sólo si se solicita)

F = Versión con brida

A, B, C = Tamaño de la brida

FORMA CONSTRUCTIVA



S

R

QF

(F 10...F 90)

(F 10...F 90)

(F 10...F 60)

H										
	F 10	F 20	F 25	F 31	F 41	F 51	F 60	F 70	F 80	F 90
Standard	H25	H30	H35	H35	H40	H50	H60	H80	H90	H100
Alternative	H30	H35	H40	H40	H45	H55	H70	H70	H80	H90

← Diámetros alternativos disponibles bajo pedido

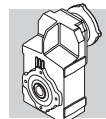
Nº DE ETAPAS DE REDUCCIÓN

2 (F 10...F 51), **3** (F 20...F 90), **4** (F 31...F 90)

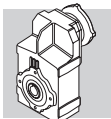
TAMAÑO DEL REDUCTOR

10, 20, 25, 31, 41, 51, 60, 70, 80, 90

TIPO: **F** = pendular



MOTOR										FRENO				
M	1LA 4	230/400-50	IP54	CLF		W	FD	7.5	R	SB	220	SA		
														OPCIONES
														ALIMENTACIÓN FRENO
														TIPO DE RECTIFICADOR AC/DC NB, SB, NBR, SBR
														PALANCA DESBLOQUEO FRENO R, RM
														PAR DE FRENADO
														TIPO DE FRENO FD (freno c.c.) FA (freno c.a.)
														POSICIÓN CAJA DE BORNES W (por defecto), N, E, S
														FORMA CONSTRUCTIVA — (motor integrado) B5 (motor IEC)
														CLASE DE AISLAMIENTO CL F estandar CL H opción
														GRADO DE PROTECCIÓN IP55 estandar (IP54 - motor freno)
														TENSIÓN - FRECUENCIA
														NÚMERO DE POLOS 2, 4, 6, 2/4, 2/6, 2/8, 2/12, 4/6, 4/8
														TAMAÑO MOTOR 0B ... 5LA (motor integrado) 63A ... 250MA (motor IEC)
														TIPO MOTOR M = trifásico integrado BN = trifásico IEC



56.1 Opciones reductores

LUBRICACIÓN

Los reductores F10, F20, 25, F31 y F41, normalmente se llenan de aceite de fábrica en la versión estándar. Los reductores F51, F60, F70, F80 y F90, normalmente se suministran sin lubricar en la versión estándar.

Sin embargo, para todos los tamaños de reductores llenados de fábrica con aceite, es posible solicitar el suministro con más tipos de aceite, seleccionables según lo definido en la siguiente tabla.

La opción no está disponible para los reductores F51, F60, F70, F80 y F90 en la posición de montaje H6.

LUBRICACIÓN	Tipo	Designacion	Productor
LU	Polialfaolefina (PAO)	OMALA S4 GX 150	
LY	Polialfaolefina (PAO)	OMALA S4 GX 220	
LV	Polialfaolefina (PAO)	OMALA S4 GX 320	
LW	Polialfaolefina (PAO)	OMALA S4 GX 460	
LH	Poliglicol (PAG)	OMALA S4 WE 150	
LS	Poliglicol (PAG)	OMALA S4 WE 220	
LO*	Poliglicol (PAG)	OMALA S4 WE 320	
LK	Poliglicol (PAG)	OMALA S4 WE 460	
LN ^[1]	Base Mineral EP	OMALA S2 G 150	
LZ ^[1]	Base Mineral EP	OMALA S2 G 220	
LI ^[1]	Base Mineral EP	OMALA S2 G 320	
LJ ^[1]	Base Mineral EP	OMALA S2 G 460	
LA	Uso alimentario	KLUBERSYNTH UH1 6-150	
LB	Uso alimentario	KLUBERSYNTH UH1 6-220	
LC	Uso alimentario	KLUBERSYNTH UH1 6-320	
LD	Uso alimentario	KLUBERSYNTH UH1 6-460	

* Salvo indicación contraria, los reductores F10, F20, F25, F31 y F41 suministrados con carga de lubricante utilizan aceite OMALA S4 WE 320..

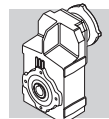
[1] Se permite el uso de aceite mineral en motorreductores con factor de servicio $f_s \geq 1,30$.

SO

Los reductores F 10...F 41, que normalmente se suministran con lubricante por parte de BONFIGLIOLI RIDUTTORI, se suministran sin lubricante.

DV

Dos retenes en el eje de entrada. (Disponible únicamente en los motorreductores compactos).



VV

Reten de fluoro-elastómero en el eje rápido.

PV

Todos los retenes de fluoro-elastómero.

AL, AR

Bajo pedido se puede suministrar el reductor/motorreductor provisto de un dispositivo antirretorno que permite el giro del eje de salida solamente en el sentido deseado. La tabla siguiente indica los reductores a los que es posible aplicar el dispositivo antirretorno.

(D 45)

F 31 2*	F 41 2 ● (6.7; 10.8)					
F 31 3*	F 41 3	F 51 3	F 60 3	F 70 3	F 80 3	F 90 3
		F 51 4	F 60 4	F 70 4	F 80 4	F 90 4

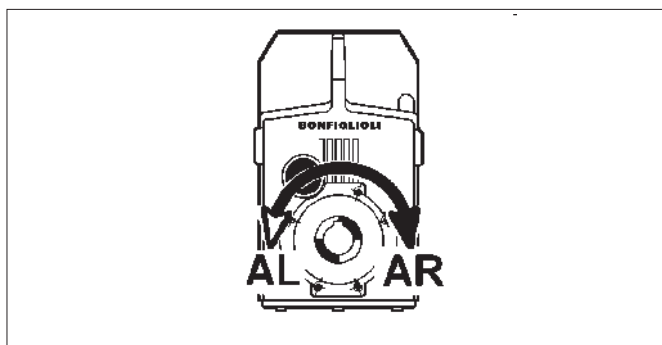
* El suministro del dispositivo antirretorno no incluye las bridas para servomotores del tipo S_60A, S_60B, S_80A.

Al efectuar el pedido deberá especificarse el sentido de rotación mediante la opción AL o AR (tabla D46) en la designación del reductor o en la del motor.



N.B. Cuando la intervención del dispositivo antirretorno sea solicitado de forma repetitiva, verificar que el par en el eje de salida resultante de la aplicación de la carga no supere el 70 % del par nominal M_{n2} del reductor.

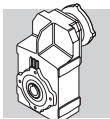
(D 46)



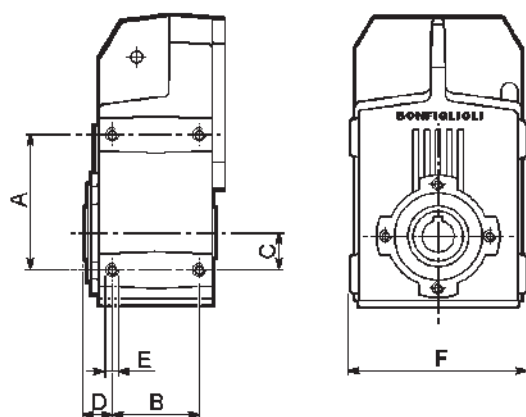
FL

Bajo pedido, el reductor o motorreductor F 10...F 41 puede suministrarse con los laterales mecanizados y taladrados para permitir la fijación.

La tabla siguiente muestra las dimensiones de los taladros y los correspondientes entre ejes. Los reductores F 51 a F90 se suministran de serie según este listado.



(D 47)



	A	B	C	D	E	F
F 10	115	60	35	21.25	M8x16	163
F 20	130	70	40	26.5	M10x20	181
F 25	130	70	40	27.5	M10x20	181
F 31	147	80	45	30	M12x20	203
F 41	190	95	60	32.5	M12x22	235

BP

Los reductores, que generalmente se suministran con un tapón de ventilación abierto, se suministran con un tapón de ventilación de válvula. La calibración de la válvula puede variar de 0,10 a 0,15 bar dependiendo del tipo de tapón. La válvula se abre a intervalos y permite la ventilación de la presión interna evitando la entrada de cuerpos extraños.

Para conocer la disponibilidad de opciones, consulte el capítulo "Posiciones de montaje y enchufes de servicio" del Manual de instalación, operación y mantenimiento (disponible en: www.bonfiglioli.com).

Si es necesario, póngase en contacto con el Servicio Técnico de Bonfiglioli.

PROTECCIÓN DE LA SUPERFICIE

Cuando no se requiere ninguna clase de protección específica, las superficies de los reductores (ferrosas) pintadas están protegidas al menos con la clase de corrosividad C2 (UNI EN ISO 12944-2). Para mejorar la resistencia a la corrosión atmosférica, los reductores se pueden entregar con una protección de superficie **C3** y **C4**, que se obtiene a partir del pintado completo del reductor.

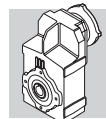
(D 48)

PROTECCIÓN SUPERFICIE	Ambientes típicos	Temperatura máxima superficie	Clase corrosividad conforme a UNI EN ISO 12944-2
C3	Ambientes industriales y urbanos con una humedad relativa de hasta el 100% (contaminación atmosférica media)	120°C	C3
C4	Zonas industriales, zonas costeras, fábrica de productos químicos, con una humedad relativa de hasta el 100% (alta contaminación atmosférica)	120°C	C4

Los reductores con la protección opcional de clase C3 o C4 están disponibles en una variedad de colores.

Si no se solicita color específico (ver la opción "PINTURA") el acabado de los reductores será en RAL 7042.

Los reductores también se pueden suministrar con protección de la superficie para la clase de corrosividad **C5** según la norma UNI EN ISO 12944-2. Póngase en contacto con nuestro Servicio Técnico para más detalles.



PINTURA

Los reductores con la protección opcional de clase C3 o C4 están disponibles en los colores que figuran en la siguiente tabla.

(D 49)

PINTURA	Color	Número RAL
RAL7042*	Gris Tráfico A	7042
RAL5010	Azul genciana	5010
RAL9005	Negro Jet	9005
RAL9006	Aluminio Blanco	9006
RAL9010	Blanco Puro	9010
RAL7035	Gris claro	7035
RAL7001	Gris-plata	7001
RAL5015	Azul cielo	5015
RAL7037	Gris polvoriento	7037
RAL5024	Azul pastel	5024

* Los reductores se suministran en este color estándar si no se especifica ningún otro color.

NOTA - Las opciones "PINTURA" sólo se pueden especificar en combinación con las opciones "PROTECCIÓN DE LA SUPERFICIE".

DOCUMENTACIÓN

Certificado de conformidad (AC)

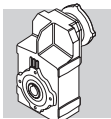
Documento en el cual se certifica la conformidad del producto con lo indicado en el pedido y su fabricación según los procedimientos estándar de producción y control que establece el sistema de calidad de Bonfiglioli Riduttori.

Certificado de prueba (CC)

La obtención de este certificado conlleva verificar la conformidad del producto con el pedido, realizar inspecciones visuales de carácter general y comprobar las dimensiones de acoplamiento. Además, exige realizar controles generales de funcionamiento en vacío y comprobar la eficacia de las juntas de retén con el sistema estático y en funcionamiento. Para llevar a cabo la prueba se utiliza una muestra estadística del lote de expedición.

56.2 Accesorios

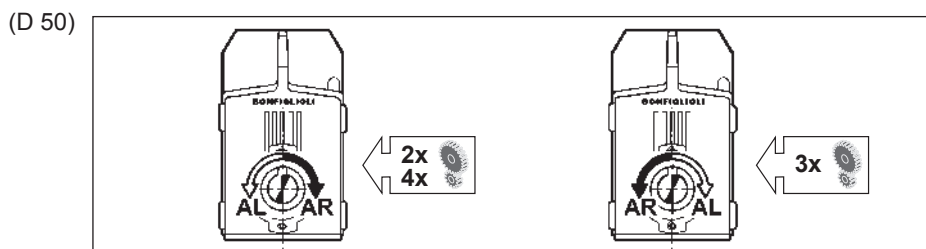
Ver el capítulo 65 de este catálogo.



56.3 Opciones motores

AL, AR

Para los motorreductores equipados con motor compacto serie M está disponible la opción antirretorno colocado sobre el propio motor e indicado en la sección motores eléctricos de este catálogo. La tabla siguiente indica el sentido de giro libre del reductor, en base al cual, deberá de realizarse la selección de la opción.



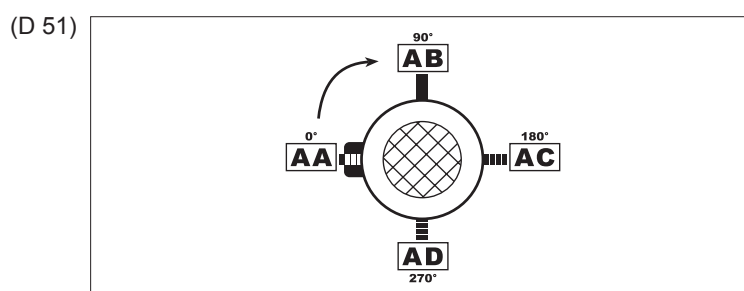
Para mayor información sobre las opciones, consultar el correspondiente capítulo en la sección de motores eléctricos.

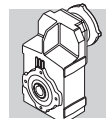
57 POSICIÓN DE MONTAJE Y ORIENTACIÓN DE LA CAJA DE CONEXIONES

La orientación de la caja de conexiones del motor se identifica observando el motor por el lado del ventilador; la orientación estándar está resaltada en negrita (W).

Posición angular de la palanca del desbloqueo del freno.

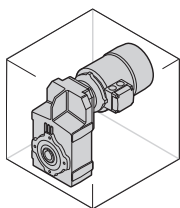
En los motores freno, la palanca de desbloqueo del freno (opcional) tiene la orientación estándar a 90° respecto a la caja de conexiones (posición AB); en caso de requerir una orientación distinta, especifíquese mediante los correspondientes códigos de opciones.



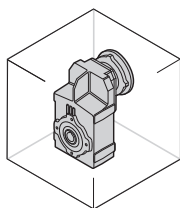


F ...

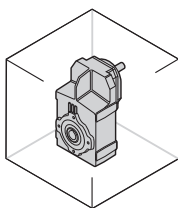
H1



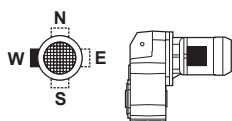
_S



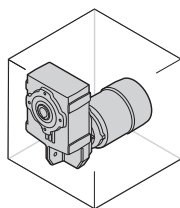
_P(IEC) _SK / _SC



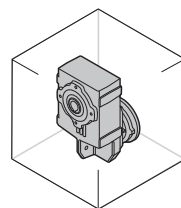
_HS



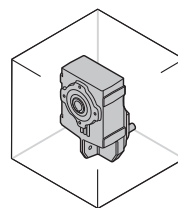
H2



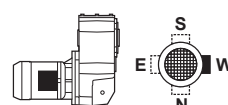
_S



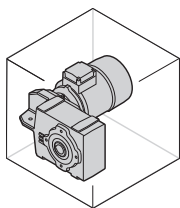
_P(IEC) _SK / _SC



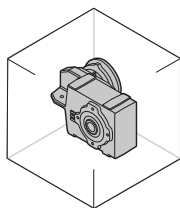
_HS



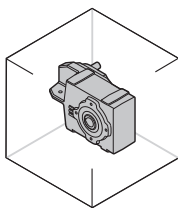
H3



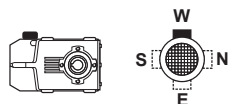
_S



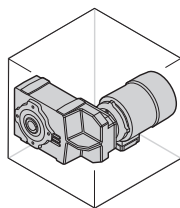
_P(IEC) _SK / _SC



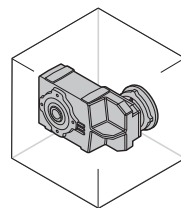
_HS



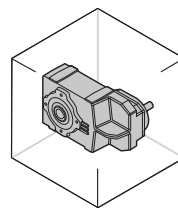
H4



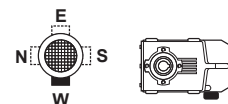
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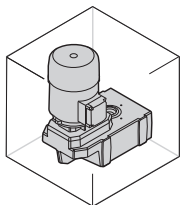
_P(IEC) _SK / _SC



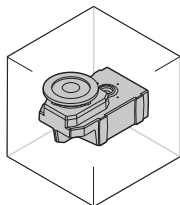
_HS



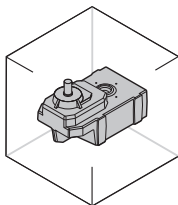
H5



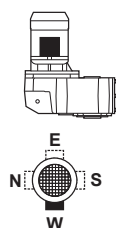
_S



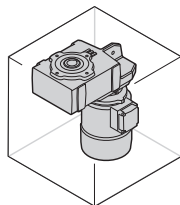
_P(IEC) _SK / _SC



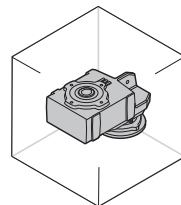
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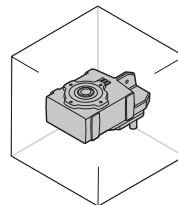
H6



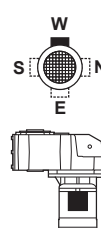
_S



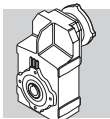
_P(IEC) _SK / _SC



_HS



W = Default



58 CARGAS RADIALES

Los órganos de transmisión acoplados en los ejes de entrada y/o salida del reductor generan una fuerza resultante en sentido radial que actúa sobre el mismo eje.

El valor de dichas cargas deberá ser compatible con la capacidad del sistema eje-cojinetes del reductor para soportarlas, en particular el valor absoluto de la carga aplicada (R_{c1} para el eje de entrada, R_{c2} para el eje de salida) deberá ser inferior al valor nominal (R_{n1} para el eje de entrada, R_{n2} para el de salida) contenido en las tablas de datos técnicos.

En las siguientes fórmulas, el subíndice (1) se refiere a los valores correspondientes al eje de entrada y el subíndice (2) a los valores correspondientes al eje de salida.

La carga generada por un sistema de transmisión externo puede ser calculada, con una buena aproximación, mediante la siguiente Fórmula:

$$R_{c1} [N] = \frac{2000 \cdot M_1 [Nm] \cdot K_r}{d [mm]} \quad ; \quad R_{c2} [N] = \frac{2000 \cdot M_2 [Nm] \cdot K_r}{d [mm]} \quad (35)$$

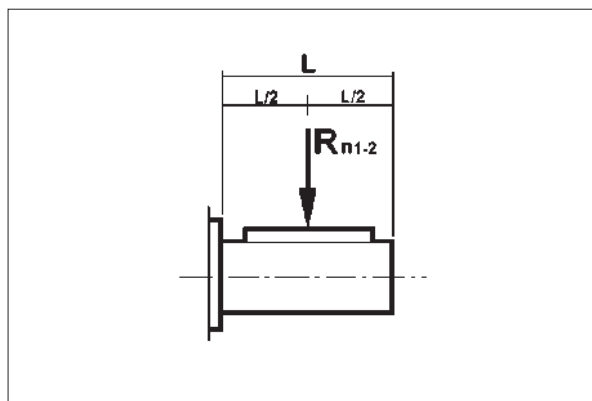
(D 52)

M_1 [Nm]	Par aplicado en el eje de entrada
M_2 [Nm]	Par suministrado en el eje de salida
d [mm]	Diámetro primitivo de la pieza montada sobre el eje
$K_r = 1$	Transmisión por cadena

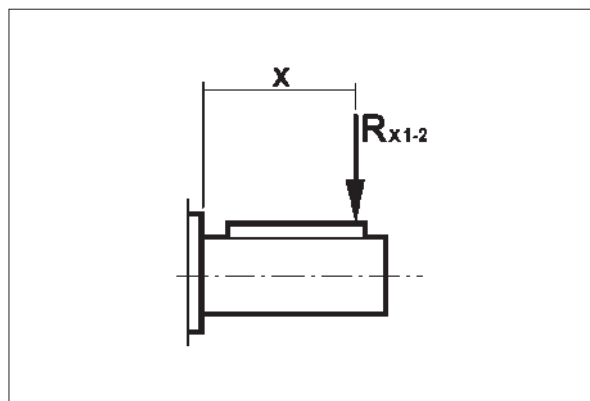
$K_r = 1,25$	Transmisión por engranaje
$K_r = 1,5$	Transmisión por correa trapecial
$K_r = 2,0$	Transmisión por correa plana

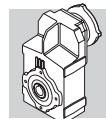
Dependiendo del punto de aplicación de la carga sobre el eje, la verificación de compatibilidad se procederá de modo diverso y en Particular:

(D 53)



(D 54)





a) Aplicación de la carga en el punto medio del eje, tabla (D53)

La carga anteriormente calculada se deberá comparar con el correspondiente valor nominal de catálogo y deberá verificarse:

$$Rc1 \leq Rn1 \text{ [eje de entrada]}$$

o bien

$$Rc2 \leq Rn2 \text{ [eje de salida]}$$

b) Aplicación de la carga a una distancia x del apoyo del eje, tabla (D54)

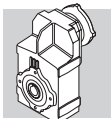
Cuando la carga se aplica a una distancia “x” del resalte del eje, se debe recalcular el valor admisible a dicha distancia.

El nuevo valor se distingue con el símbolo Rx1 (eje rápido) y Rx2 (eje lento) y se obtiene a partir de los valores de catálogo Rn1 y Rn2 respectivamente a través del Factor.

$$\frac{a}{b+x} \quad (36)$$

(D 55)

	Constantes del reductor					
	Eje de salida			Eje de entrada		
	a	b	c	a	b	c
F 10 2	123	100.5	450	21	1	300
F 20 2	145	115	600	40	20	350
F 20 3	145	115	600	21	1	300
F 25 2 - F 25 3	157.5	127.5	800	40	20	350
F 25 4	157.5	127.5	800	21	1	300
F 31 2 - F 31 3	165	135	850	38.5	18.5	350
F 31 4	165	135	850	21	1	300
F 41 2 - F 41 3	191.5	151.5	1000	49.5	24.5	450
F 41 4	191.5	151.5	1000	40	20	350
F 51 2 - F 51 3	233.5	183.5	1300	49.5	24.5	450
F 51 4	233.5	183.5	1300	38.5	18.5	350
F 60 3	258.5	198.5	1100	55.5	25.5	600
F 60 4	258.5	198.5	1100	49.5	24.5	450
F 70 3	342	277	1600	86	31	1000
F 70 4	342	277	1600	49.5	24.5	450
F 80 3	386.5	301.5	1800	86	31	1000
F 80 4	386.5	301.5	1800	49.5	24.5	450
F 90 3	458.5	353.5	2400	116	46	1400
F 90 4	458.5	353.5	2400	49.5	24.5	450



El procedimiento de verificación implica los siguientes pasos sucesivos.

EJE DE ENTRADA

1. Cálculo de:

$$R_{x1} = R_{n1} \cdot \frac{a}{b+x} \quad (37)$$

NOTA. Siempre que se cumpla:

$$\frac{L}{2} \leq x \leq c \quad (38)$$

Finalmente será necesario comprobar que:

$$R_{c1} \leq R_{x1} \quad (39)$$

EJE DE SALIDA

1. Cálculo de:

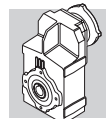
$$R_{x2} = R_{n2} \cdot \frac{a}{b+x} \quad (40)$$

NOTA. Siempre que se cumpla:

$$\frac{L}{2} \leq x \leq c \quad (41)$$

Finalmente será necesario comprobar que:

$$R_{c2} \leq R_{x2} \quad (42)$$



59 CARGAS AXIALES, A_{n1} , A_{n2}

Las cargas axiales máximas admisibles en el eje de entrada [A_{n1}] y en el de salida [A_{n2}] se pueden obtener a partir de los correspondientes valores de la carga radial [R_{n1}] y [R_{n2}] mediante las siguientes expresiones:

$$A_{n1} = R_{n1} \cdot 0.2$$

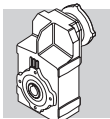
$$A_{n2} = R_{n2} \cdot 0.2$$

(43)

Los valores de las cargas axiales admisibles así calculados, están referidos a cargas axiales actuando a la vez con las cargas radiales nominales.

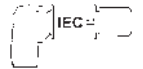
Únicamente en el caso en que la carga radial que actúe sobre el eje del reductor sea nula, se podrá considerar que la carga axial admisible [A_n] es el 50% del valor de la carga radial [R_n] admisible para el eje en cuestión.

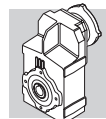
Ante cargas axiales que superen los valores admisibles o de fuerzas axiales que resulten claramente dominantes sobre las cargas radiales, se recomienda contactar con el Servicio Técnico de Bonfiglioli Riduttori.



60 DATOS TÉCNICOS MOTORREDUCTORES

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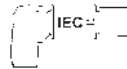
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
0.40	1945	2.6	2188	35000			F704_2188 P63 BN63A6	459
0.50	1526	3.4	1717	35000			F704_1717 P63 BN63A6	459
0.62	1254	0.9	1411	8500	F414_1411 S05 M05A6	446	F414_1411 P63 BN63A6	447
0.73	1079	1.0	1213	8500	F414_1213 S05 M05A6	446	F414_1213 P63 BN63A6	447
0.81	971	1.1	1092	8500	F414_1092 S05 M05A6	446	F414_1092 P63 BN63A6	447
0.90	874	1.3	982.4	8500	F414_982.4 S05 M05A6	446	F414_982.4 P63 BN63A6	447
0.98	801	1.4	900.5	8500	F414_900.5 S05 M05A6	446	F414_900.5 P63 BN63A6	447
1.1	724	1.5	813.8	8500	F414_813.8 S05 M05A6	446	F414_813.8 P63 BN63A6	447
1.2	678	0.9	762.3	6500	F314_762.3 S05 M05A6	442	F314_762.3 P63 BN63A6	443
1.2	658	1.7	739.4	8500	F414_739.4 S05 M05A6	446	F414_739.4 P63 BN63A6	447
1.3	610	1.0	685.6	6500	F314_685.6 S05 M05A6	442	F314_685.6 P63 BN63A6	443
1.3	614	1.8	690.1	8500	F414_690.1 S05 M05A6	446	F414_690.1 P63 BN63A6	447
1.4	551	1.1	619.9	6500	F314_619.9 S05 M05A6	442	F314_619.9 P63 BN63A6	443
1.5	515	1.2	578.6	6500	F314_578.6 S05 M05A6	442	F314_578.6 P63 BN63A6	443
1.6	489	2.2	549.8	8500	F414_549.8 S05 M05A6	446	F414_549.8 P63 BN63A6	447
1.7	469	0.9	527.3	6500	F254_527.3 S05 M05A6	438	F254_527.3 P63 BN63A6	439
1.7	469	1.3	527.8	6500	F314_527.8 S05 M05A6	442	F314_527.8 P63 BN63A6	443
1.9	414	1.0	466.0	6500	F254_466.0 S05 M05A6	438	F254_466.0 P63 BN63A6	439
1.9	411	1.5	462.6	6500	F314_462.6 S05 M05A6	442	F314_462.6 P63 BN63A6	443
2.0	387	1.0	434.9	6500	F254_434.9 S05 M05A6	438	F254_434.9 P63 BN63A6	439
2.0	386	2.9	433.7	8500	F414_433.7 S05 M05A6	446	F414_433.7 P63 BN63A6	447
2.1	372	1.6	418.9	6500	F314_418.9 S05 M05A6	442	F314_418.9 P63 BN63A6	443
2.2	350	1.1	393.9	6500	F254_393.9 S05 M05A6	438	F254_393.9 P63 BN63A6	439
2.4	340	1.8	374.4	6500			F313_374.4 P63 BN63A6	443
2.6	302	2.0	332.8	6500			F313_332.8 P63 BN63A6	443
2.6	313	3.5	344.8	8500			F413_344.8 P63 BN63A6	447
2.8	288	0.9	316.9	4000	F203_316.9 S05 M05A6	434	F203_316.9 P63 BN63A6	435
3.0	267	2.2	293.8	6500			F313_293.8 P63 BN63A6	443
3.1	259	1.0	285.2	4000	F203_285.2 S05 M05A6	434	F203_285.2 P63 BN63A6	435
3.4	232	1.1	255.3	4000	F203_255.3 S05 M05A6	434	F203_255.3 P63 BN63A6	435
3.5	230	2.6	253.6	6500			F313_253.6 P63 BN63A6	443
3.9	207	2.9	228.2	6500			F313_228.2 P63 BN63A6	443
4.2	190	1.3	209.3	4000	F203_209.3 S05 M05A6	434	F203_209.3 P63 BN63A6	435
4.4	184	3.3	202.3	6500			F313_202.3 P63 BN63A6	443
4.8	168	1.5	184.9	4000	F203_184.9 S05 M05A6	434	F203_184.9 P63 BN63A6	435
5.1	157	1.6	172.6	4000	F203_172.6 S05 M05A6	434	F203_172.6 P63 BN63A6	435
5.6	142	1.8	156.3	4000	F203_156.3 S05 M05A6	434	F203_156.3 P63 BN63A6	435
6.7	123	2.0	132.2	4000	F202_132.2 S05 M05A6	434	F202_132.2 P63 BN63A6	435
6.9	118	1.2	127.1	2800	F102_127.1 S05 M05A6	430	F102_127.1 P63 BN63A6	431
7.7	106	2.4	114.3	4000	F202_114.3 S05 M05A6	434	F202_114.3 P63 BN63A6	435
8.3	98	1.4	106.0	2800	F102_106.0 S05 M05A6	430	F102_106.0 P63 BN63A6	431
8.7	94	2.6	101.6	4000	F202_101.6 S05 M05A6	434	F202_101.6 P63 BN63A6	435
9.6	85	1.6	91.5	2800	F102_91.5 S05 M05A6	430	F102_91.5 P63 BN63A6	431
9.7	84	3.0	90.4	4000	F202_90.4 S05 M05A6	434	F202_90.4 P63 BN63A6	435
10.8	75	1.9	81.3	2800	F102_81.3 S05 M05A6	430	F102_81.3 P63 BN63A6	431
11.5	71	3.5	76.8	4000	F202_76.8 S05 M05A6	434	F202_76.8 P63 BN63A6	435
12.4	66	2.1	71.1	2800	F102_71.1 S05 M05A6	430	F102_71.1 P63 BN63A6	431
14.0	58	2.4	63.0	2800	F102_63.0 S05 M05A6	430	F102_63.0 P63 BN63A6	431

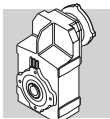


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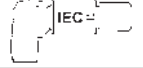
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
15.5	53	2.7	56.7	2800	F102_56.7 S05 M05A6	430	F102_56.7 P63 BN63A6	431
18.1	45	3.1	48.7	2800	F102_48.7 S05 M05A6	430	F102_48.7 P63 BN63A6	431
19.7	41	3.4	44.7	2800	F102_44.7 S05 M05A6	430	F102_44.7 P63 BN63A6	431
22.2	37	3.8	39.6	2800	F102_39.6 S05 M05A6	430	F102_39.6 P63 BN63A6	431
24.9	33	4.3	35.3	2800	F102_35.3 S05 M05A6	430	F102_35.3 P63 BN63A6	431
26.7	31	4.6	33.0	2800	F102_33.0 S05 M05A6	430	F102_33.0 P63 BN63A6	431
29.7	28	5.1	29.6	2800	F102_29.6 S05 M05A6	430	F102_29.6 P63 BN63A6	431
34	24	5.9	25.8	2800	F102_25.8 S05 M05A6	430	F102_25.8 P63 BN63A6	431
39	21	6.6	22.8	2800	F102_22.8 S05 M05A6	430	F102_22.8 P63 BN63A6	431
46	18	7.8	19.3	2800	F102_19.3 S05 M05A6	430	F102_19.3 P63 BN63A6	431
52	16	8.9	17.0	2800	F102_17.0 S05 M05A6	430	F102_17.0 P63 BN63A6	431
60	14	10.1	14.6	2700	F102_14.6 S05 M05A6	430	F102_14.6 P63 BN63A6	431
68	12	10.3	13.0	2600	F102_13.0 S05 M05A6	430	F102_13.0 P63 BN63A6	431
76	11	10.3	11.5	2500	F102_11.5 S05 M05A6	430	F102_11.5 P63 BN63A6	431
90	9	11.8	9.8	2370	F102_9.8 S05 M05A6	430	F102_9.8 P63 BN63A6	431
103	8	11.8	8.6	2270	F102_8.6 S05 M05A6	430	F102_8.6 P63 BN63A6	431
119	7	13.2	7.4	2160	F102_7.4 S05 M05A6	430	F102_7.4 P63 BN63A6	431

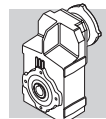
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
0.40	2623	1.9	2188	35000			F704_2188 P63 BN63B6	459
0.51	2058	2.5	1717	35000			F704_1717 P63 BN63B6	459
0.60	1742	2.9	2188	35000			F704_2188 P63 BN63A4	459
0.65	1607	3.1	2019	35000			F704_2019 P63 BN63A4	459
0.76	1368	2.1	1141	20000			F604_1141 P63 BN63B6	455
0.89	1178	0.9	982.4	8500	F414_982.4 S05 M05B6	446	F414_982.4 P63 BN63B6	447
0.96	1090	1.0	1411	8500	F414_1411 S05 M05A4	446	F414_1411 P63 BN63A4	447
1.1	938	1.2	1213	8500	F414_1213 S05 M05A4	446	F414_1213 P63 BN63A4	447
1.2	844	1.3	1092	8500	F414_1092 S05 M05A4	446	F414_1092 P63 BN63A4	447
1.4	759	1.4	982.4	8500	F414_982.4 S05 M05A4	446	F414_982.4 P63 BN63A4	447
1.5	696	1.6	900.5	8500	F414_900.5 S05 M05A4	446	F414_900.5 P63 BN63A4	447
1.6	643	0.9	831.6	6500	F314_831.6 S05 M05A4	442	F314_831.6 P63 BN63A4	443
1.7	629	1.7	813.8	8500	F414_813.8 S05 M05A4	446	F414_813.8 P63 BN63A4	447
1.8	589	1.0	762.3	6500	F314_762.3 S05 M05A4	442	F314_762.3 P63 BN63A4	443
1.8	571	1.9	739.4	8500	F414_739.4 S05 M05A4	446	F414_739.4 P63 BN63A4	447
2.0	530	1.1	685.6	6500	F314_685.6 S05 M05A4	442	F314_685.6 P63 BN63A4	443
2.0	533	2.1	690.1	8500	F414_690.1 S05 M05A4	446	F414_690.1 P63 BN63A4	447
2.2	479	1.3	619.9	6500	F314_619.9 S05 M05A4	442	F314_619.9 P63 BN63A4	443
2.3	456	0.9	589.7	6500	F254_589.7 S05 M05A4	438	F254_589.7 P63 BN63A4	439
2.3	447	1.3	578.6	6500	F314_578.6 S05 M05A4	442	F314_578.6 P63 BN63A4	443
2.5	425	2.6	549.8	8500	F414_549.8 S05 M05A4	446	F414_549.8 P63 BN63A4	447
2.6	408	1.0	527.3	6500	F254_527.3 S05 M05A4	438	F254_527.3 P63 BN63A4	439
2.6	408	1.5	527.8	6500	F314_527.8 S05 M05A4	442	F314_527.8 P63 BN63A4	443
2.9	360	1.1	466.0	6500	F254_466.0 S05 M05A4	438	F254_466.0 P63 BN63A4	439
2.9	358	1.7	462.6	6500	F314_462.6 S05 M05A4	442	F314_462.6 P63 BN63A4	443
3.1	336	1.2	434.9	6500	F254_434.9 S05 M05A4	438	F254_434.9 P63 BN63A4	439
3.1	335	3.3	433.7	8500	F414_433.7 S05 M05A4	446	F414_433.7 P63 BN63A4	447



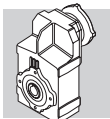
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
3.2	324	1.9	418.9	6500	F314_418.9 S05 M05A4	442	F314_418.9 P63 BN63A4	443
3.4	304	1.3	393.9	6500	F254_393.9 S05 M05A4	438	F254_393.9 P63 BN63A4	439
3.6	296	2.0	374.4	6500			F313_374.4 P63 BN63A4	443
4.1	263	1.5	333.1	6500	F253_333.1 S05 M05A4	438	F253_333.1 P63 BN63A4	439
4.1	263	2.3	332.8	6500			F313_332.8 P63 BN63A4	443
4.3	250	1.0	316.9	4000	F203_316.9 S05 M05A4	434	F203_316.9 P63 BN63A4	435
4.6	232	2.6	293.8	6500			F313_293.8 P63 BN63A4	443
4.7	225	1.1	285.2	4000	F203_285.2 S05 M05A4	434	F203_285.2 P63 BN63A4	435
4.7	228	1.8	288.1	6500	F253_288.1 S05 M05A4	438	F253_288.1 P63 BN63A4	439
5.3	202	1.2	255.3	4000	F203_255.3 S05 M05A4	434	F203_255.3 P63 BN63A4	435
5.3	202	2.0	256.1	6500	F253_256.1 S05 M05A4	438	F253_256.1 P63 BN63A4	439
5.3	200	3.0	253.6	6500			F313_253.6 P63 BN63A4	443
5.9	180	2.2	227.8	6500	F253_227.8 S05 M05A4	438	F253_227.8 P63 BN63A4	439
5.9	180	3.3	228.2	6500			F313_228.2 P63 BN63A4	443
6.5	165	1.5	209.3	4000	F203_209.3 S05 M05A4	434	F203_209.3 P63 BN63A4	435
7.0	153	2.6	193.6	6500	F253_193.6 S05 M05A4	438	F253_193.6 P63 BN63A4	439
7.3	146	1.7	184.9	4000	F203_184.9 S05 M05A4	434	F203_184.9 P63 BN63A4	435
7.7	138	2.9	174.2	6500	F253_174.2 S05 M05A4	438	F253_174.2 P63 BN63A4	439
7.8	136	1.8	172.6	4000	F203_172.6 S05 M05A4	434	F203_172.6 P63 BN63A4	435
8.6	123	2.0	156.3	4000	F203_156.3 S05 M05A4	434	F203_156.3 P63 BN63A4	435
8.7	123	3.2	155.9	6500	F253_155.9 S05 M05A4	438	F253_155.9 P63 BN63A4	439
9.4	113	3.5	143.0	6500	F253_143.0 S05 M05A4	438	F253_143.0 P63 BN63A4	439
10.2	107	2.3	132.2	4000	F202_132.2 S05 M05A4	434	F202_132.2 P63 BN63A4	435
10.6	103	1.4	127.1	2800	F102_127.1 S05 M05A4	430	F102_127.1 P63 BN63A4	431
11.8	92	2.7	114.3	4000	F202_114.3 S05 M05A4	434	F202_114.3 P63 BN63A4	435
12.7	86	1.6	106.0	2800	F102_106.0 S05 M05A4	430	F102_106.0 P63 BN63A4	431
13.3	82	3.0	101.6	4000	F202_101.6 S05 M05A4	434	F202_101.6 P63 BN63A4	435
14.8	74	1.9	91.5	2800	F102_91.5 S05 M05A4	430	F102_91.5 P63 BN63A4	431
14.9	73	3.4	90.4	4000	F202_90.4 S05 M05A4	434	F202_90.4 P63 BN63A4	435
16.6	66	2.1	81.3	2800	F102_81.3 S05 M05A4	430	F102_81.3 P63 BN63A4	431
19.0	57	2.4	71.1	2800	F102_71.1 S05 M05A4	430	F102_71.1 P63 BN63A4	431
21.4	51	2.8	63.0	2800	F102_63.0 S05 M05A4	430	F102_63.0 P63 BN63A4	431
23.8	46	3.1	56.7	2800	F102_56.7 S05 M05A4	430	F102_56.7 P63 BN63A4	431
27.7	39	3.6	48.7	2800	F102_48.7 S05 M05A4	430	F102_48.7 P63 BN63A4	431
30	36	3.9	44.7	2800	F102_44.7 S05 M05A4	430	F102_44.7 P63 BN63A4	431
34	32	4.4	39.6	2800	F102_39.6 S05 M05A4	430	F102_39.6 P63 BN63A4	431
38	29	4.9	35.3	2800	F102_35.3 S05 M05A4	430	F102_35.3 P63 BN63A4	431
41	27	5.3	33	2800	F102_33.0 S05 M05A4	430	F102_33.0 P63 BN63A4	431
46	24	5.9	29.6	2800	F102_29.6 S05 M05A4	430	F102_29.6 P63 BN63A4	431
52	21	6.7	25.8	2800	F102_25.8 S05 M05A4	430	F102_25.8 P63 BN63A4	431
59	18	7.6	22.8	2700	F102_22.8 S05 M05A4	430	F102_22.8 P63 BN63A4	431
70	16	8.7	19.3	2560	F102_19.3 S05 M05A4	430	F102_19.3 P63 BN63A4	431
80	14	9.3	17.0	2450	F102_17.0 S05 M05A4	430	F102_17.0 P63 BN63A4	431
92	12	10.1	14.6	2340	F102_14.6 S05 M05A4	430	F102_14.6 P63 BN63A4	431
104	11	9.9	13.0	2250	F102_13.0 S05 M05A4	430	F102_13.0 P63 BN63A4	431
117	9	10.3	11.5	2160	F102_11.5 S05 M05A4	430	F102_11.5 P63 BN63A4	431
138	8	11.3	9.8	2050	F102_9.8 S05 M05A4	430	F102_9.8 P63 BN63A4	431
157	7	11.8	8.6	1970	F102_8.6 S05 M05A4	430	F102_8.6 P63 BN63A4	431
182	6	12.7	7.4	1870	F102_7.4 S05 M05A4	430	F102_7.4 P63 BN63A4	431



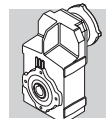
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
0.41	3804	1.3	2188	35000	F704_2188 S1 M1SC6	458	F704_2188 P71 BN71A6	459
0.45	3511	1.4	2019	35000	F704_2019 S1 M1SC6	458	F704_2019 P71 BN71A6	459
0.45	3455	2.3	1987	45000	F804_1987 S1 M1SC6	461	F804_1987 P71 BN71A6	462
0.49	3189	2.5	1834	45000	F804_1834 S1 M1SC6	461	F804_1834 P71 BN71A6	462
0.52	2985	1.7	1717	35000	F704_1717 S1 M1SC6	458	F704_1717 P71 BN71A6	459
0.53	2972	2.7	1709	45000	F804_1709 S1 M1SC6	461	F804_1709 P71 BN71A6	462
0.57	2756	1.8	1585	35000	F704_1585 S1 M1SC6	458	F704_1585 P71 BN71A6	459
0.57	2744	2.9	1578	45000	F804_1578 S1 M1SC6	461	F804_1578 P71 BN71A6	462
0.61	2576	1.9	1481	35000	F704_1481 S1 M1SC6	458	F704_1481 P71 BN71A6	459
0.65	2406	3.3	1384	45000	F804_1384 S1 M1SC6	461	F804_1384 P71 BN71A6	462
0.66	2378	2.1	1368	35000	F704_1368 S1 M1SC6	458	F704_1368 P71 BN71A6	459
0.76	2055	2.4	1182	35000	F704_1182 S1 M1SC6	458	F704_1182 P71 BN71A6	459
0.77	2030	0.9	1168	12000	F514_1168 S1 M1SC6	450	F514_1168 P71 BN71A6	451
0.79	1985	1.5	1141	20000	F604_1141 S1 M1SC6	454	F604_1141 P71 BN71A6	455
0.83	1897	2.6	1091	35000	F704_1091 S1 M1SC6	458	F704_1091 P71 BN71A6	459
0.84	1861	1.0	1070	12000	F514_1070 S1 M1SC6	450	F514_1070 P71 BN71A6	451
0.85	1832	1.6	1054	20000	F604_1054 S1 M1SC6	454	F604_1054 P71 BN71A6	455
0.92	1703	1.1	979.4	12000	F514_979.4 S1 M1SC6	450	F514_979.4 P71 BN71A6	451
0.92	1694	3.0	974.4	35000	F704_974.4 S1 M1SC6	458	F704_974.4 P71 BN71A6	459
0.94	1667	1.7	958.9	20000	F604_958.9 S1 M1SC6	454	F604_958.9 P71 BN71A6	455
1.0	1540	1.2	885.5	12000	F514_885.5 S1 M1SC6	450	F514_885.5 P71 BN71A6	451
1.0	1539	1.9	885.1	20000	F604_885.1 S1 M1SC6	454	F604_885.1 P71 BN71A6	455
1.0	1564	3.2	899.4	35000	F704_899.4 S1 M1SC6	458	F704_899.4 P71 BN71A6	459
1.1	1437	1.3	826.4	12000	F514_826.4 S1 M1SC6	450	F514_826.4 P71 BN71A6	451
1.1	1430	3.5	822.2	35000	F704_822.2 S1 M1SC6	458	F704_822.2 P71 BN71A6	459
1.2	1286	0.9	739.4	8500	F414_739.4 S1 M1SC6	446	F414_739.4 P71 BN71A6	447
1.2	1286	0.9	739.4	8500	F414_739.4 S1 M1SC6	446	F414_739.4 P71 BN71A6	447
1.3	1200	0.9	690.1	8500	F414_690.1 S1 M1SC6	446	F414_690.1 P71 BN71A6	447
1.3	1200	0.9	690.1	8500	F414_690.1 S1 M1SC6	446	F414_690.1 P71 BN71A6	447
1.3	1165	0.9	982.4	8500	F414_982.4 S05 M05B4	446	F414_982.4 P63 BN63B4	447
1.5	1068	1.0	900.5	8500	F414_900.5 S05 M05B4	446	F414_900.5 P63 BN63B4	447
1.6	965	1.1	813.8	8500	F414_813.8 S05 M05B4	446	F414_813.8 P63 BN63B4	447
1.8	877	1.3	739.4	8500	F414_739.4 S05 M05B4	446	F414_739.4 P63 BN63B4	447
1.9	818	1.3	690.1	8500	F414_690.1 S05 M05B4	446	F414_690.1 P63 BN63B4	447
2.3	686	0.9	578.6	6500	F314_578.6 S05 M05B4	442	F314_578.6 P63 BN63B4	443
2.4	652	1.7	549.8	8500	F414_549.8 S05 M05B4	446	F414_549.8 P63 BN63B4	447
2.5	626	1.0	527.8	6500	F314_527.8 S05 M05B4	442	F314_527.8 P63 BN63B4	443
2.9	549	1.1	462.6	6500	F314_462.6 S05 M05B4	442	F314_462.6 P63 BN63B4	443
3.0	514	2.1	433.7	8500	F414_433.7 S05 M05B4	446	F414_433.7 P63 BN63B4	447
3.2	497	1.2	418.9	6500	F314_418.9 S05 M05B4	442	F314_418.9 P63 BN63B4	443
3.4	467	0.9	393.9	6500	F254_393.9 S05 M05B4	438	F254_393.9 P63 BN63B4	439
3.5	454	1.3	374.4	6500			F313_374.4 P63 BN63B4	443
3.8	418	2.6	344.8	8500			F413_344.8 P63 BN63B4	447
4.0	404	1.0	333.1	6500	F253_333.1 S05 M05B4	438	F253_333.1 P63 BN63B4	439
4.0	403	1.5	332.8	6500			F313_332.8 P63 BN63B4	443
4.5	356	1.7	293.8	6500			F313_293.8 P63 BN63B4	443
4.5	359	3.1	296.6	8500			F413_296.6 P63 BN63B4	447
4.6	349	1.1	288.1	6500	F253_288.1 S05 M05B4	438	F253_288.1 P63 BN63B4	439
4.9	323	3.4	266.9	8500			F413_266.9 P63 BN63B4	447
5.2	310	1.3	256.1	6500	F253_256.1 S05 M05B4	438	F253_256.1 P63 BN63B4	439
5.2	307	2.0	253.6	6500			F313_253.6 P63 BN63B4	443

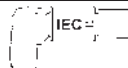


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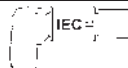
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
5.8	276	1.4	227.8	6500	F253_227.8 S05 M05B4	438	F253_227.8 P63 BN63B4	439
5.8	277	2.2	228.2	6500			F313_228.2 P63 BN63B4	443
6.3	254	1.0	209.3	4000	F203_209.3 S05 M05B4	434	F203_209.3 P63 BN63B4	435
6.5	245	2.4	202.3	6500			F313_202.3 P63 BN63B4	443
6.8	235	1.7	193.6	6500	F253_193.6 S05 M05B4	438	F253_193.6 P63 BN63B4	439
7.1	224	1.1	184.9	4000	F203_184.9 S05 M05B4	434	F203_184.9 P63 BN63B4	435
7.1	225	2.7	185.4	6500			F313_185.4 P63 BN63B4	443
7.6	209	1.2	172.6	4000	F203_172.6 S05 M05B4	434	F203_172.6 P63 BN63B4	435
7.6	211	1.9	174.2	6500	F253_174.2 S05 M05B4	438	F253_174.2 P63 BN63B4	439
7.9	202	3.0	166.8	6500			F313_166.8 P63 BN63B4	443
8.4	189	1.3	156.3	4000	F203_156.3 S05 M05B4	434	F203_156.3 P63 BN63B4	435
8.5	189	2.1	155.9	6500	F253_155.9 S05 M05B4	438	F253_155.9 P63 BN63B4	439
8.8	183	3.3	150.8	6500			F313_150.8 P63 BN63B4	443
9.2	173	2.3	143.0	6500	F253_143.0 S05 M05B4	438	F253_143.0 P63 BN63B4	439
9.4	171	3.5	140.7	6500			F313_140.7 P63 BN63B4	443
10.0	164	1.5	132.2	4000	F202_132.2 S05 M05B4	434	F202_132.2 P63 BN63B4	435
10.3	155	2.6	127.8	6500	F253_127.8 S05 M05B4	438	F253_127.8 P63 BN63B4	439
10.4	157	0.9	127.1	2800	F102_127.1 S05 M05B4	430	F102_127.1 P63 BN63B4	431
11.5	142	1.8	114.3	4000	F202_114.3 S05 M05B4	434	F202_114.3 P63 BN63B4	435
11.7	137	2.9	113.0	6500	F253_113.0 S05 M05B4	438	F253_113.0 P63 BN63B4	439
12.5	131	1.1	106.0	2800	F102_106.0 S05 M05B4	430	F102_106.0 P63 BN63B4	431
12.5	128	3.1	105.4	6500	F253_105.4 S05 M05B4	438	F253_105.4 P63 BN63B4	439
13.0	126	2.0	101.6	4000	F202_101.6 S05 M05B4	434	F202_101.6 P63 BN63B4	435
13.8	116	3.5	95.5	6500	F253_95.5 S05 M05B4	438	F253_95.5 P63 BN63B4	439
14.4	113	1.2	91.5	2800	F102_91.5 S05 M05B4	430	F102_91.5 P63 BN63B4	431
14.6	112	2.2	90.4	4000	F202_90.4 S05 M05B4	434	F202_90.4 P63 BN63B4	435
16.2	101	1.4	81.3	2800	F102_81.3 S05 M05B4	430	F102_81.3 P63 BN63B4	431
17.2	95	2.6	76.8	4000	F202_76.8 S05 M05B4	434	F202_76.8 P63 BN63B4	435
18.6	88	1.6	71.1	2800	F102_71.1 S05 M05B4	430	F102_71.1 P63 BN63B4	431
19.1	86	2.9	69.1	4000	F202_69.1 S05 M05B4	434	F202_69.1 P63 BN63B4	435
21.0	78	1.8	63.0	2800	F102_63.0 S05 M05B4	430	F102_63.0 P63 BN63B4	431
21.3	77	3.3	61.9	4000	F202_61.9 S05 M05B4	434	F202_61.9 P63 BN63B4	435
23.3	70	2.0	56.7	2800	F102_56.7 S05 M05B4	430	F102_56.7 P63 BN63B4	431
27.1	60	2.3	48.7	2800	F102_48.7 S05 M05B4	430	F102_48.7 P63 BN63B4	431
29.6	55	2.5	44.7	2800	F102_44.7 S05 M05B4	430	F102_44.7 P63 BN63B4	431
33	49	2.9	39.6	2800	F102_39.6 S05 M05B4	430	F102_39.6 P63 BN63B4	431
37	44	3.2	35.3	2800	F102_35.3 S05 M05B4	430	F102_35.3 P63 BN63B4	431
40	41	3.4	33.0	2800	F102_33.0 S05 M05B4	430	F102_33.0 P63 BN63B4	431
45	37	3.8	29.6	2800	F102_29.6 S05 M05B4	430	F102_29.6 P63 BN63B4	431
51	32	4.4	25.8	2780	F102_25.8 S05 M05B4	430	F102_25.8 P63 BN63B4	431
58	28	5.0	22.8	2680	F102_22.8 S05 M05B4	430	F102_22.8 P63 BN63B4	431
68	24	5.7	19.3	2540	F102_19.3 S05 M05B4	430	F102_19.3 P63 BN63B4	431
78	21	6.1	17.0	2440	F102_17.0 S05 M05B4	430	F102_17.0 P63 BN63B4	431
90	18	6.6	14.6	2330	F102_14.6 S05 M05B4	430	F102_14.6 P63 BN63B4	431
101	16	6.4	13.0	2240	F102_13.0 S05 M05B4	430	F102_13.0 P63 BN63B4	431
114	14	6.7	11.5	2150	F102_11.5 S05 M05B4	430	F102_11.5 P63 BN63B4	431
135	12	7.4	9.8	2040	F102_9.8 S05 M05B4	430	F102_9.8 P63 BN63B4	431
154	11	7.7	8.6	1960	F102_8.6 S05 M05B4	430	F102_8.6 P63 BN63B4	431
178	9	8.3	7.4	1870	F102_7.4 S05 M05B4	430	F102_7.4 P63 BN63B4	431
186	9	10.7	14.6	1860	F102_14.6 S05 M05A2	430	F102_14.6 P63 BN63A2	431
210	8	10.9	13.0	1790	F102_13.0 S05 M05A2	430	F102_13.0 P63 BN63A2	431

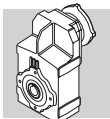


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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
237	7	11.3	11.5	1720	F102_11.5 S05 M05A2	430	F102_11.5 P63 BN63A2	431
279	6	12.5	9.8	1630	F102_9.8 S05 M05A2	430	F102_9.8 P63 BN63A2	431
318	5	13.0	8.6	1560	F102_8.6 S05 M05A2	430	F102_8.6 P63 BN63A2	431
369	4	14.2	7.4	1490	F102_7.4 S05 M05A2	430	F102_7.4 P63 BN63A2	431

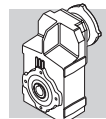
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
0.41	5283	0.9	2188	35000	F704_2188 S1 M1SD6	458	F704_2188 P71 BN71B6	459
0.45	4877	1.0	2019	35000	F704_2019 S1 M1SD6	458	F704_2019 P71 BN71B6	459
0.45	4799	1.7	1987	45000	F804_1987 S1 M1SD6	461	F804_1987 P71 BN71B6	462
0.49	4430	1.8	1834	45000	F804_1834 S1 M1SD6	461	F804_1834 P71 BN71B6	462
0.52	4146	1.2	1717	35000	F704_1717 S1 M1SD6	458	F704_1717 P71 BN71B6	459
0.53	4128	1.9	1709	45000	F804_1709 S1 M1SD6	461	F804_1709 P71 BN71B6	462
0.57	3827	1.3	1585	35000	F704_1585 S1 M1SD6	458	F704_1585 P71 BN71B6	459
0.57	3810	2.1	1578	45000	F804_1578 S1 M1SD6	461	F804_1578 P71 BN71B6	462
0.61	3578	1.4	1481	35000	F704_1481 S1 M1SD6	458	F704_1481 P71 BN71B6	459
0.65	3342	2.4	1384	45000	F804_1384 S1 M1SD6	461	F804_1384 P71 BN71B6	462
0.66	3303	1.5	1368	35000	F704_1368 S1 M1SD6	458	F704_1368 P71 BN71B6	459
0.70	3085	2.6	1277	45000	F804_1277 S1 M1SD6	461	F804_1277 P71 BN71B6	462
0.76	2854	1.8	1182	35000	F704_1182 S1 M1SD6	458	F704_1182 P71 BN71B6	459
0.79	2757	1.1	1141	20000	F604_1141 S1 M1SD6	454	F604_1141 P71 BN71B6	455
0.79	2769	2.9	1146	45000	F804_1146 S1 M1SD6	461	F804_1146 P71 BN71B6	462
0.83	2635	1.9	1091	35000	F704_1091 S1 M1SD6	458	F704_1091 P71 BN71B6	459
0.85	2545	1.1	1054	20000	F604_1054 S1 M1SD6	454	F604_1054 P71 BN71B6	455
0.85	2556	3.1	1058	45000	F804_1058 S1 M1SD6	461	F804_1058 P71 BN71B6	462
0.92	2353	2.1	974.4	35000	F704_974.4 S1 M1SD6	458	F704_974.4 P71 BN71B6	459
0.94	2316	1.3	958.9	20000	F604_958.9 S1 M1SD6	454	F604_958.9 P71 BN71B6	455
1.0	2138	1.4	885.1	20000	F604_885.1 S1 M1SD6	454	F604_885.1 P71 BN71B6	455
1.0	2172	2.3	899.4	35000	F704_899.4 S1 M1SD6	458	F704_899.4 P71 BN71B6	459
1.1	1996	0.9	826.4	12000	F514_826.4 S1 M1SD6	450	F514_826.4 P71 BN71B6	451
1.1	1986	2.5	822.2	35000	F704_822.2 S1 M1SD6	458	F704_822.2 P71 BN71B6	459
1.3	1633	1.1	676.3	12000	F514_676.3 S1 M1SD6	450	F514_676.3 P71 BN71B6	451
1.4	1600	1.8	662.4	20000	F604_662.4 S1 M1SD6	454	F604_662.4 P71 BN71B6	455
1.4	1588	3.1	657.4	35000	F704_657.4 S1 M1SD6	458	F704_657.4 P71 BN71B6	459
1.5	1477	2.0	611.4	20000	F604_611.4 S1 M1SD6	454	F604_611.4 P71 BN71B6	455
1.5	1466	3.4	606.8	35000	F704_606.8 S1 M1SD6	458	F704_606.8 P71 BN71B6	459
1.7	1282	0.9	813.8	8500	F414_813.8 S05 M05C4	446	F414_813.8 P71 BN71A4	447
1.8	1199	0.9	739.4	8500	F414_739.4 S05 M05C4	446	F414_739.4 P71 BN71A4	447
1.9	1119	1.0	690.1	8500	F414_690.1 S05 M05C4	446	F414_690.1 P71 BN71A4	447
2.4	892	1.2	549.8	8500	F414_549.8 S05 M05C4	446	F414_549.8 P71 BN71A4	447
2.8	783	2.3	317.3	12000	F513_317.3 S1 M1SD6	450	F513_317.3 P71 BN71B6	451
3.1	704	1.6	433.7	8500	F414_433.7 S05 M05C4	446	F414_433.7 P71 BN71A4	447
3.2	679	0.9	418.9	6500	F314_418.9 S05 M05C4	442	F314_418.9 P71 BN71A4	443
3.7	603	1.0	374.4	6500			F313_374.4 P71 BN71A4	443
4.0	555	2.0	344.8	8500			F413_344.8 P71 BN71A4	447
4.1	536	1.1	332.8	6500			F313_332.8 P71 BN71A4	443
4.7	473	1.3	293.8	6500			F313_293.8 P71 BN71A4	443

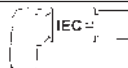


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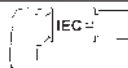
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
4.7	477	2.3	296.6	8500	F253_256.1 S05 M05C4	438	F413_296.6 P71 BN71A4	447
5.2	425	0.9	256.1	6500			F253_256.1 P71 BN71A4	439
5.2	430	2.6	266.9	8500			F413_266.9 P71 BN71A4	447
5.4	408	1.5	253.6	6500			F313_253.6 P71 BN71A4	443
5.7	387	2.8	240.1	8500			F413_240.1 P71 BN71A4	447
5.9	378	1.1	227.8	6500	F253_227.8 S05 M05C4	438	F253_227.8 P71 BN71A4	439
6.0	367	1.6	228.2	6500			F313_228.2 P71 BN71A4	443
6.3	354	3.1	220.1	8500			F413_220.1 P71 BN71A4	447
6.8	326	1.8	202.3	6500			F313_202.3 P71 BN71A4	443
6.9	321	1.2	193.6	6500			F253_193.6 P71 BN71A4	439
6.9	320	3.4	198.9	8500	F253_174.2 S05 M05C4 F203_172.6 S05 M05C4	438 434	F413_198.9 P71 BN71A4	447
7.4	299	2.0	185.4	6500			F313_185.4 P71 BN71A4	443
7.7	289	1.4	174.2	6500			F253_174.2 P71 BN71A4	439
8.0	278	0.9	172.6	4000			F203_172.6 P71 BN71A4	435
8.3	268	2.2	166.8	6500			F313_166.8 P71 BN71A4	443
8.6	259	1.0	156.3	4000	F203_156.3 S05 M05C4 F253_155.9 S05 M05C4	434 438	F203_156.3 P71 BN71A4	435
8.6	259	1.5	155.9	6500			F253_155.9 P71 BN71A4	439
9.2	243	2.5	150.8	6500			F313_150.8 P71 BN71A4	443
9.7	230	1.7	143.0	6500			F253_143.0 P71 BN71A4	439
9.8	227	2.6	140.7	6500			F313_140.7 P71 BN71A4	443
10.1	224	1.1	132.2	4000	F202_132.2 S05 M05C4 F253_127.8 S05 M05C4	434 438	F202_132.2 P71 BN71A4	435
10.5	212	1.9	127.8	6500			F253_127.8 P71 BN71A4	439
10.7	207	2.9	128.4	6500			F313_128.4 P71 BN71A4	443
11.7	194	1.3	114.3	4000			F202_114.3 P71 BN71A4	435
12.2	182	2.2	113.0	6500			F253_113.0 P71 BN71A4	439
12.3	181	3.3	112.5	6500	F253_105.4 S05 M05C4 F202_101.6 S05 M05C4	438 434	F313_112.5 P71 BN71A4	443
12.7	175	2.3	105.4	6500			F253_105.4 P71 BN71A4	439
13.2	172	1.5	101.6	4000			F202_101.6 P71 BN71A4	435
14.0	158	2.5	95.5	6500			F253_95.5 P71 BN71A4	439
14.6	155	0.9	91.5	2800			F102_91.5 P71 BN71A4	431
14.8	153	1.6	90.4	4000	F202_90.4 S05 M05C4 F253_83.4 S05 M05C4 F102_81.3 S05 M05C4	434 438 430	F202_90.4 P71 BN71A4	435
16.1	138	2.9	83.4	6500			F253_83.4 P71 BN71A4	439
16.5	138	1.0	81.3	2800			F102_81.3 P71 BN71A4	431
17.4	130	1.9	76.8	4000			F202_76.8 P71 BN71A4	435
17.5	127	3.2	76.6	6420			F253_76.6 P71 BN71A4	439
18.8	120	1.2	71.1	2800	F102_71.1 S05 M05C4 F202_69.1 S05 M05C4 F102_63.0 S05 M05C4 F202_61.9 S05 M05C4 F102_56.7 S05 M05C4	430 434 430 434 430	F102_71.1 P71 BN71A4	431
19.4	117	2.1	69.1	4000			F202_69.1 P71 BN71A4	435
21.3	107	1.3	63.0	2800			F102_63.0 P71 BN71A4	431
21.7	105	2.4	61.9	4000			F202_61.9 P71 BN71A4	435
23.6	96	1.5	56.7	2800			F102_56.7 P71 BN71A4	431
23.6	96	2.6	56.7	4000	F202_56.7 S05 M05C4 F202_50.7 S05 M05C4 F102_48.7 S05 M05C4 F202_44.8 S05 M05C4 F102_44.7 S05 M05C4	434 434 430 434 430	F202_56.7 P71 BN71A4	435
26.4	86	2.9	50.7	4000			F202_50.7 P71 BN71A4	435
27.5	83	1.7	48.7	2800			F102_48.7 P71 BN71A4	431
29.9	76	3.3	44.8	3870			F202_44.8 P71 BN71A4	435
30.0	76	1.9	44.7	2800			F102_44.7 P71 BN71A4	431
34	67	2.1	39.6	2800	F102_39.6 S05 M05C4 F102_35.3 S05 M05C4 F102_33.0 S05 M05C4 F102_29.6 S05 M05C4 F102_25.8 S05 M05C4	430 430 430 430 430	F102_39.6 P71 BN71A4	431
38	60	2.3	35.3	2800			F102_35.3 P71 BN71A4	431
41	56	2.5	33.0	2800			F102_33.0 P71 BN71A4	431
45	50	2.8	29.6	2800			F102_29.6 P71 BN71A4	431
52	44	3.2	25.8	2750			F102_25.8 P71 BN71A4	431
59	39	3.6	22.8	2650	F102_22.8 S05 M05C4	430	F102_22.8 P71 BN71A4	431

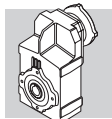


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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
69	33	4.2	19.3	2520	F102_19.3 S05 M05C4	430	F102_19.3 P71 BN71A4	431
81	28	4.6	17.0	2420	F102_17.0 S05 M05C4	430	F102_17.0 P71 BN71A4	431
91	25	4.8	14.6	2310	F102_14.6 S05 M05C4	430	F102_14.6 P71 BN71A4	431
103	22	4.7	13.0	2230	F102_13.0 S05 M05C4	430	F102_13.0 P71 BN71A4	431
120	19	5.1	11.5	2140	F102_11.5 S05 M05C4	430	F102_11.5 P71 BN71A4	431
137	17	5.4	9.8	2030	F102_9.8 S05 M05C4	430	F102_9.8 P71 BN71A4	431
161	14	5.8	8.6	1950	F102_8.6 S05 M05C4	430	F102_8.6 P71 BN71A4	431
181	13	6.1	7.4	1860	F102_7.4 S05 M05C4	430	F102_7.4 P71 BN71A4	431
187	12	7.7	14.6	1850	F102_14.6 S05 M05B2	430	F102_14.6 P63 BN63B2	431
210	11	7.9	13.0	1780	F102_13.0 S05 M05B2	430	F102_13.0 P63 BN63B2	431
237	10	8.2	11.5	1710	F102_11.5 S05 M05B2	430	F102_11.5 P63 BN63B2	431
280	8	9.0	9.8	1620	F102_9.8 S05 M05B2	430	F102_9.8 P63 BN63B2	431
319	7	9.4	8.6	1550	F102_8.6 S05 M05B2	430	F102_8.6 P63 BN63B2	431
370	6	10.3	7.4	1480	F102_7.4 S05 M05B2	430	F102_7.4 P63 BN63B2	431

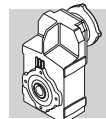
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
0.46	7024	1.1	1987	45000	F804_1987 S1 M1LA6	461	F804_1987 P80 BN80A6	462
0.50	6484	1.2	1834	45000	F804_1834 S1 M1LA6	461	F804_1834 P80 BN80A6	462
0.53	6042	1.3	1709	45000	F804_1709 S1 M1LA6	461	F804_1709 P80 BN80A6	462
0.57	5602	0.9	1585	35000	F704_1585 S1 M1LA6	458	F704_1585 P80 BN80A6	459
0.58	5577	1.4	1578	45000	F804_1578 S1 M1LA6	461	F804_1578 P80 BN80A6	462
0.61	5238	1.0	1481	35000	F704_1481 S1 M1LA6	458	F704_1481 P80 BN80A6	459
0.63	5137	1.0	2188	35000	F704_2188 S1 M1SD4	458	F704_2188 P71 BN71B4	459
0.68	4742	1.1	2019	35000	F704_2019 S1 M1SD4	458	F704_2019 P71 BN71B4	459
0.69	4666	1.7	1987	45000	F804_1987 S1 M1SD4	461	F804_1987 P71 BN71B4	462
0.75	4307	1.9	1834	45000	F804_1834 S1 M1SD4	461	F804_1834 P71 BN71B4	462
0.80	4031	1.2	1717	35000	F704_1717 S1 M1SD4	458	F704_1717 P71 BN71B4	459
0.80	4013	2.0	1709	45000	F804_1709 S1 M1SD4	461	F804_1709 P71 BN71B4	462
0.86	3721	1.3	1585	35000	F704_1585 S1 M1SD4	458	F704_1585 P71 BN71B4	459
0.87	3705	2.2	1578	45000	F804_1578 S1 M1SD4	461	F804_1578 P71 BN71B4	462
0.92	3479	1.4	1481	35000	F704_1481 S1 M1SD4	458	F704_1481 P71 BN71B4	459
0.99	3250	2.5	1384	45000	F804_1384 S1 M1SD4	461	F804_1384 P71 BN71B4	462
1.0	3211	1.6	1368	35000	F704_1368 S1 M1SD4	458	F704_1368 P71 BN71B4	459
1.1	3000	2.7	1277	45000	F804_1277 S1 M1SD4	461	F804_1277 P71 BN71B4	462
1.2	2680	1.1	1141	20000	F604_1141 S1 M1SD4	454	F604_1141 P71 BN71B4	455
1.2	2775	1.8	1182	35000	F704_1182 S1 M1SD4	458	F704_1182 P71 BN71B4	459
1.2	2692	3.0	1146	45000	F804_1146 S1 M1SD4	461	F804_1146 P71 BN71B4	462
1.3	2474	1.2	1054	20000	F604_1054 S1 M1SD4	454	F604_1054 P71 BN71B4	455
1.3	2562	2.0	1091	35000	F704_1091 S1 M1SD4	458	F704_1091 P71 BN71B4	459
1.3	2485	3.2	1058	45000	F804_1058 S1 M1SD4	461	F804_1058 P71 BN71B4	462
1.4	2252	1.3	958.9	20000	F604_958.9 S1 M1SD4	454	F604_958.9 P71 BN71B4	455
1.4	2288	2.2	974.4	35000	F704_974.4 S1 M1SD4	458	F704_974.4 P71 BN71B4	459
1.5	2079	0.9	885.5	12000	F514_885.5 S1 M1SD4	450	F514_885.5 P71 BN71B4	451
1.5	2078	1.4	885.1	20000	F604_885.1 S1 M1SD4	454	F604_885.1 P71 BN71B4	455
1.5	2112	2.4	899.4	35000	F704_899.4 S1 M1SD4	458	F704_899.4 P71 BN71B4	459
1.7	1941	0.9	826.4	12000	F514_826.4 S1 M1SD4	450	F514_826.4 P71 BN71B4	451



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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
1.7	1931	2.6	822.2	35000	F704_822.2 S1 M1SD4	458	F704_822.2 P71 BN71B4	459
2.0	1588	1.1	676.3	12000	F514_676.3 S1 M1SD4	450	F514_676.3 P71 BN71B4	451
2.1	1556	1.9	662.4	20000	F604_662.4 S1 M1SD4	454	F604_662.4 P71 BN71B4	455
2.1	1544	3.2	657.4	35000	F704_657.4 S1 M1SD4	458	F704_657.4 P71 BN71B4	459
2.2	1436	2.0	611.4	20000	F604_611.4 S1 M1SD4	454	F604_611.4 P71 BN71B4	455
2.3	1425	3.5	606.8	35000	F704_606.8 S1 M1SD4	458	F704_606.8 P71 BN71B4	459
2.5	1291	0.9	549.8	8500	F414_549.8 S1 M1SD4	446	F414_549.8 P71 BN71B4	447
2.6	1246	1.4	530.5	12000	F514_530.5 S1 M1SD4	450	F514_530.5 P71 BN71B4	451
2.6	1246	2.3	530.7	20000	F604_530.7 S1 M1SD4	454	F604_530.7 P71 BN71B4	455
2.8	1150	2.5	489.8	20000	F604_489.8 S1 M1SD4	454	F604_489.8 P71 BN71B4	455
3.2	1018	1.1	433.7	8500	F414_433.7 S1 M1SD4	446	F414_433.7 P71 BN71B4	447
3.2	1008	1.8	429.1	12000	F514_429.1 S1 M1SD4	450	F514_429.1 P71 BN71B4	451
3.2	1016	2.9	432.6	20000	F604_432.6 S1 M1SD4	454	F604_432.6 P71 BN71B4	455
3.4	938	3.1	399.3	20000	F604_399.3 S1 M1SD4	454	F604_399.3 P71 BN71B4	455
3.9	846	2.1	352.5	12000	F513_352.5 S1 M1SD4	450	F513_352.5 P71 BN71B4	451
4.0	827	1.3	344.8	8500	F413_344.8 S1 M1SD4	446	F413_344.8 P71 BN71B4	447
4.3	761	2.4	317.3	12000	F513_317.3 S1 M1SD4	450	F513_317.3 P71 BN71B4	451
4.6	712	1.5	296.6	8500	F413_296.6 S1 M1SD4	446	F413_296.6 P71 BN71B4	447
4.8	686	2.6	285.9	12000	F513_285.9 S1 M1SD4	450	F513_285.9 P71 BN71B4	451
5.1	641	1.7	266.9	8500	F413_266.9 S1 M1SD4	446	F413_266.9 P71 BN71B4	447
5.2	629	2.9	262.1	12000	F513_262.1 S1 M1SD4	450	F513_262.1 P71 BN71B4	451
5.4	609	1.0	253.6	6500	F313_253.6 S1 M1SD4	442	F313_253.6 P71 BN71B4	443
5.7	576	1.9	240.1	8500	F413_240.1 S1 M1SD4	446	F413_240.1 P71 BN71B4	447
5.7	576	3.1	239.8	12000	F513_239.8 S1 M1SD4	450	F513_239.8 P71 BN71B4	451
6.0	548	1.1	228.2	6500	F313_228.2 S1 M1SD4	442	F313_228.2 P71 BN71B4	443
6.2	528	2.1	220.1	8500	F413_220.1 S1 M1SD4	446	F413_220.1 P71 BN71B4	447
6.3	520	3.5	216.9	12000	F513_216.9 S1 M1SD4	450	F513_216.9 P71 BN71B4	451
6.8	485	1.2	202.3	6500	F313_202.3 S1 M1SD4	442	F313_202.3 P71 BN71B4	443
6.9	477	2.3	198.9	8500	F413_198.9 S1 M1SD4	446	F413_198.9 P71 BN71B4	447
7.4	445	1.3	185.4	6500	F313_185.4 S1 M1SD4	442	F313_185.4 P71 BN71B4	443
7.6	434	2.5	180.7	8500	F413_180.7 S1 M1SD4	446	F413_180.7 P71 BN71B4	447
7.9	418	1.0	174.2	6500	F253_174.2 S1 M1SD4	438	F253_174.2 P71 BN71B4	439
8.1	405	2.7	168.7	8500	F413_168.7 S1 M1SD4	446	F413_168.7 P71 BN71B4	447
8.2	400	1.5	166.8	6500	F313_166.8 S1 M1SD4	442	F313_166.8 P71 BN71B4	443
8.8	374	1.1	155.9	6500	F253_155.9 S1 M1SD4	438	F253_155.9 P71 BN71B4	439
9.1	362	1.7	150.8	6500	F313_150.8 S1 M1SD4	442	F313_150.8 P71 BN71B4	443
9.6	343	1.2	143.0	6500	F253_143.0 S1 M1SD4	438	F253_143.0 P71 BN71B4	439
9.7	338	1.8	140.7	6500	F313_140.7 S1 M1SD4	442	F313_140.7 P71 BN71B4	443
10.2	323	3.4	134.4	8500	F413_134.4 S1 M1SD4	446	F413_134.4 P71 BN71B4	447
10.7	307	1.3	127.8	6500	F253_127.8 S1 M1SD4	438	F253_127.8 P71 BN71B4	439
10.7	308	1.9	128.4	6500	F313_128.4 S1 M1SD4	442	F313_128.4 P71 BN71B4	443
12.1	271	1.5	113.0	6500	F253_113.0 S1 M1SD4	438	F253_113.0 P71 BN71B4	439
12.2	270	2.2	112.5	6500	F313_112.5 S1 M1SD4	442	F313_112.5 P71 BN71B4	443
13.0	253	1.6	105.4	6500	F253_105.4 S1 M1SD4	438	F253_105.4 P71 BN71B4	439
13.4	245	2.5	101.9	6500	F313_101.9 S1 M1SD4	442	F313_101.9 P71 BN71B4	443
13.5	249	1.0	101.6	4000			F202_101.6 P71 BN71B4	435
14.3	229	1.7	95.5	6490	F253_95.5 S1 M1SD4	438	F253_95.5 P71 BN71B4	439
15.2	222	1.1	90.4	4000	F202_90.4 S1 M1SD4	434	F202_90.4 P71 BN71B4	435
15.7	210	2.9	87.4	6500	F313_87.4 S1 M1SD4	442	F313_87.4 P71 BN71B4	443
16.4	200	2.0	83.4	6280	F253_83.4 S1 M1SD4	438	F253_83.4 P71 BN71B4	439
17.4	189	3.2	78.9	6500	F313_78.9 S1 M1SD4	442	F313_78.9 P71 BN71B4	443

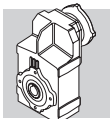


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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
17.8	188	1.3	76.8	4000	F202_76.8 S1 M1SD4	434	F202_76.8 P71 BN71B4	435
17.9	184	2.2	76.6	6160	F253_76.6 S1 M1SD4	438	F253_76.6 P71 BN71B4	439
19.8	169	1.5	69.1	4000	F202_69.1 S1 M1SD4	434	F202_69.1 P71 BN71B4	435
21.0	157	2.6	65.3	5920	F253_65.3 S1 M1SD4	438	F253_65.3 P71 BN71B4	439
21.7	154	0.9	63.0	2800	F102_63.0 S1 M1SD4	430	F102_63.0 P71 BN71B4	431
22.1	152	1.6	61.9	4000	F202_61.9 S1 M1SD4	434	F202_61.9 P71 BN71B4	435
23.5	140	2.9	58.3	5750	F253_58.3 S1 M1SD4	438	F253_58.3 P71 BN71B4	439
24.2	139	1.0	56.7	2800	F102_56.7 S1 M1SD4	430	F102_56.7 P71 BN71B4	431
24.2	139	1.8	56.7	4000	F202_56.7 S1 M1SD4	434	F202_56.7 P71 BN71B4	435
27.0	124	2.0	50.7	3900	F202_50.7 S1 M1SD4	434	F202_50.7 P71 BN71B4	435
27.0	122	3.3	50.8	5540	F253_50.8 S1 M1SD4	438	F253_50.8 P71 BN71B4	439
28.1	119	1.2	48.7	2800	F102_48.7 S1 M1SD4	430	F102_48.7 P71 BN71B4	431
31	110	1.3	44.7	2800	F102_44.7 S1 M1SD4	430	F102_44.7 P71 BN71B4	431
31	110	2.3	44.8	3770	F202_44.8 S1 M1SD4	434	F202_44.8 P71 BN71B4	435
31	109	3.5	44.4	5370	F252_44.4 S1 M1SD4	438	F252_44.4 P71 BN71B4	439
33	103	2.4	41.8	3700	F202_41.8 S1 M1SD4	434	F202_41.8 P71 BN71B4	435
35	97	1.4	39.6	2800	F102_39.6 S1 M1SD4	430	F102_39.6 P71 BN71B4	431
36	93	2.7	37.9	3600	F202_37.9 S1 M1SD4	434	F202_37.9 P71 BN71B4	435
39	87	1.6	35.3	2800	F102_35.3 S1 M1SD4	430	F102_35.3 P71 BN71B4	431
41	81	3.1	33.1	3460	F202_33.1 S1 M1SD4	434	F202_33.1 P71 BN71B4	435
42	81	1.7	33.0	2800	F102_33.0 S1 M1SD4	430	F102_33.0 P71 BN71B4	431
45	75	3.4	30.4	3380	F202_30.4 S1 M1SD4	434	F202_30.4 P71 BN71B4	435
46	73	1.9	29.6	2800	F102_29.6 S1 M1SD4	430	F102_29.6 P71 BN71B4	431
53	63	2.2	25.8	2690	F102_25.8 S1 M1SD4	430	F102_25.8 P71 BN71B4	431
60	56	2.5	22.8	2600	F102_22.8 S1 M1SD4	430	F102_22.8 P71 BN71B4	431
71	47	2.9	19.3	2470	F102_19.3 S1 M1SD4	430	F102_19.3 P71 BN71B4	431
81	42	3.1	17.0	2380	F102_17.0 S1 M1SD4	430	F102_17.0 P71 BN71B4	431
94	36	3.3	14.6	2280	F102_14.6 S1 M1SD4	430	F102_14.6 P71 BN71B4	431
105	32	3.3	13.0	2200	F102_13.0 S1 M1SD4	430	F102_13.0 P71 BN71B4	431
119	28	3.4	11.5	2120	F102_11.5 S1 M1SD4	430	F102_11.5 P71 BN71B4	431
140	24	3.7	9.8	2010	F102_9.8 S1 M1SD4	430	F102_9.8 P71 BN71B4	431
160	21	3.9	8.6	1930	F102_8.6 S1 M1SD4	430	F102_8.6 P71 BN71B4	431
185	18	4.2	7.4	1850	F102_7.4 S1 M1SD4	430	F102_7.4 P71 BN71B4	431
193	17	5.4	14.6	1830	F102_14.6 S05 M05C2	430	F102_14.6 P71 BN71A2	431
216	16	5.5	13.0	1760	F102_13.0 S05 M05C2	430	F102_13.0 P71 BN71A2	431
244	14	5.7	11.5	1690	F102_11.5 S05 M05C2	430	F102_11.5 P71 BN71A2	431
289	12	6.3	9.8	1610	F102_9.8 S05 M05C2	430	F102_9.8 P71 BN71A2	431
329	10	6.6	8.6	1540	F102_8.6 S05 M05C2	430	F102_8.6 P71 BN71A2	431
381	9	7.1	7.4	1470	F102_7.4 S05 M05C2	430	F102_7.4 P71 BN71A2	431

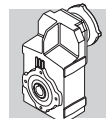
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n ₂	M ₂	S	i	R _{n2}				
0.44	10909	1.3	2099	55000	F904_2099 S2 M2SA6	464	F904_2099 P80 BN80B6	465
0.47	10070	1.4	1937	55000	F904_1937 S2 M2SA6	464	F904_1937 P80 BN80B6	465
0.54	8884	0.9	1709	45000	F804_1709 S2 M2SA6	461	F804_1709 P80 BN80B6	462
0.54	8849	1.6	1702	55000	F904_1702 S2 M2SA6	464	F904_1702 P80 BN80B6	465
0.58	8201	1.0	1578	45000	F804_1578 S2 M2SA6	461	F804_1578 P80 BN80B6	462

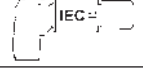


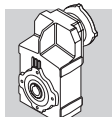
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n ₂	M ₂	S	i	R _{n2}				
0.59	8168	1.7	1571	55000	F904_1571 S2 M2SA6	464	F904_1571 P80 BN80B6	465
0.64	7422	1.9	1428	55000	F904_1428 S2 M2SA6	464	F904_1428 P80 BN80B6	465
0.66	7193	1.1	1384	45000	F804_1384 S2 M2SA6	461	F804_1384 P80 BN80B6	462
0.69	6885	1.2	1987	45000	F804_1987 S1 M1LA4	461	F804_1987 P80 BN80A4	462
0.75	6356	1.3	1834	45000	F804_1834 S1 M1LA4	461	F804_1834 P80 BN80A4	462
0.81	5923	1.4	1709	45000	F804_1709 S1 M1LA4	461	F804_1709 P80 BN80A4	462
0.87	5491	0.9	1585	35000	F704_1585 S1 M1LA4	458	F704_1585 P80 BN80A4	459
0.87	5467	1.5	1578	45000	F804_1578 S1 M1LA4	461	F804_1578 P80 BN80A4	462
0.93	5134	1.0	1481	35000	F704_1481 S1 M1LA4	458	F704_1481 P80 BN80A4	459
1.0	4739	1.1	1368	35000	F704_1368 S1 M1LA4	458	F704_1368 P80 BN80A4	459
1.0	4795	1.7	1384	45000	F804_1384 S1 M1LA4	461	F804_1384 P80 BN80A4	462
1.1	4427	1.8	1277	45000	F804_1277 S1 M1LA4	461	F804_1277 P80 BN80A4	462
1.2	4095	1.2	1182	35000	F704_1182 S1 M1LA4	458	F704_1182 P80 BN80A4	459
1.2	3972	2.0	1146	45000	F804_1146 S1 M1LA4	461	F804_1146 P80 BN80A4	462
1.3	3780	1.3	1091	35000	F704_1091 S1 M1LA4	458	F704_1091 P80 BN80A4	459
1.3	3667	2.2	1058	45000	F804_1058 S1 M1LA4	461	F804_1058 P80 BN80A4	462
1.4	3323	0.9	958.9	20000	F604_958.9 S1 M1LA4	454	F604_958.9 P80 BN80A4	455
1.4	3377	1.5	974.4	35000	F704_974.4 S1 M1LA4	458	F704_974.4 P80 BN80A4	459
1.5	3117	1.6	899.4	35000	F704_899.4 S1 M1LA4	458	F704_899.4 P80 BN80A4	459
1.5	3109	2.6	897.3	45000	F804_897.3 S1 M1LA4	461	F804_897.3 P80 BN80A4	462
1.6	3067	0.9	885.1	20000	F604_885.1 S1 M1LA4	454	F604_885.1 P80 BN80A4	455
1.7	2849	1.8	822.2	35000	F704_822.2 S1 M1LA4	458	F704_822.2 P80 BN80A4	459
1.8	2684	3.0	774.4	45000	F804_774.4 S1 M1LA4	461	F804_774.4 P80 BN80A4	462
1.9	2477	3.2	714.9	45000	F804_714.9 S1 M1LA4	461	F804_714.9 P80 BN80A4	462
2.1	2295	1.3	662.4	20000	F604_662.4 S1 M1LA4	454	F604_662.4 P80 BN80A4	455
2.1	2278	2.2	657.4	35000	F704_657.4 S1 M1LA4	458	F704_657.4 P80 BN80A4	459
2.3	2119	1.4	611.4	20000	F604_611.4 S1 M1LA4	454	F604_611.4 P80 BN80A4	455
2.3	2103	2.4	606.8	35000	F704_606.8 S1 M1LA4	458	F704_606.8 P80 BN80A4	459
2.6	1838	1.0	530.5	12000	F514_530.5 S1 M1LA4	450	F514_530.5 P80 BN80A4	451
2.6	1839	1.6	530.7	20000	F604_530.7 S1 M1LA4	454	F604_530.7 P80 BN80A4	455
2.7	1769	2.8	510.4	35000	F704_510.4 S1 M1LA4	458	F704_510.4 P80 BN80A4	459
2.8	1698	1.7	489.8	20000	F604_489.8 S1 M1LA4	454	F604_489.8 P80 BN80A4	455
2.9	1633	3.1	471.2	35000	F704_471.2 S1 M1LA4	458	F704_471.2 P80 BN80A4	459
3.2	1487	1.2	429.1	12000	F514_429.1 S1 M1LA4	450	F514_429.1 P80 BN80A4	451
3.2	1499	1.9	432.6	20000	F604_432.6 S1 M1LA4	454	F604_432.6 P80 BN80A4	455
3.5	1384	2.1	399.3	20000	F604_399.3 S1 M1LA4	454	F604_399.3 P80 BN80A4	455
3.9	1248	1.4	352.5	12000	F513_352.5 S1 M1LA4	450	F513_352.5 P80 BN80A4	451
4.0	1221	0.9	344.8	8500	F413_344.8 S1 M1LA4	446	F413_344.8 P80 BN80A4	447
4.0	1184	2.4	341.7	20000	F604_341.7 S1 M1LA4	454	F604_341.7 P80 BN80A4	455
4.3	1124	1.6	317.3	12000	F513_317.3 S1 M1LA4	450	F513_317.3 P80 BN80A4	451
4.4	1093	2.7	315.4	20000	F604_315.4 S1 M1LA4	454	F604_315.4 P80 BN80A4	455
4.7	1050	1.0	296.6	8500	F413_296.6 S1 M1LA4	446	F413_296.6 P80 BN80A4	447
4.8	1013	1.8	285.9	12000	F513_285.9 S1 M1LA4	450	F513_285.9 P80 BN80A4	451
5.2	945	1.2	266.9	8500	F413_266.9 S1 M1LA4	446	F413_266.9 P80 BN80A4	447
5.3	928	1.9	262.1	12000	F513_262.1 S1 M1LA4	450	F513_262.1 P80 BN80A4	451
5.7	850	1.3	240.1	8500	F413_240.1 S1 M1LA4	446	F413_240.1 P80 BN80A4	447
5.8	849	2.1	239.8	12000	F513_239.8 S1 M1LA4	450	F513_239.8 P80 BN80A4	451
6.3	780	1.4	220.1	8500	F413_220.1 S1 M1LA4	446	F413_220.1 P80 BN80A4	447
6.4	768	2.3	216.9	12000	F513_216.9 S1 M1LA4	450	F513_216.9 P80 BN80A4	451
6.8	717	2.5	202.4	12000	F513_202.4 S1 M1LA4	450	F513_202.4 P80 BN80A4	451
6.9	704	1.6	198.9	8500	F413_198.9 S1 M1LA4	446	F413_198.9 P80 BN80A4	447

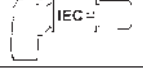


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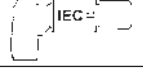
n ₂	M ₂	S	i	R _{n2}				
7.4	657	0.9	185.4	6500	F313_185.4 S1 M1LA4	442	F313_185.4 P80 BN80A4	443
7.6	640	1.7	180.7	8500	F413_180.7 S1 M1LA4	446	F413_180.7 P80 BN80A4	447
8.2	597	1.8	168.7	8500	F413_168.7 S1 M1LA4	446	F413_168.7 P80 BN80A4	447
8.3	591	1.0	166.8	6500	F313_166.8 S1 M1LA4	442	F313_166.8 P80 BN80A4	443
8.3	587	3.1	165.6	12000	F513_165.6 S1 M1LA4	450	F513_165.6 P80 BN80A4	451
9.2	534	1.1	150.8	6500	F313_150.8 S1 M1LA4	442	F313_150.8 P80 BN80A4	443
9.8	498	1.2	140.7	6500	F313_140.7 S1 M1LA4	442	F313_140.7 P80 BN80A4	443
10.3	476	2.3	134.4	8500	F413_134.4 S1 M1LA4	446	F413_134.4 P80 BN80A4	447
10.7	455	1.3	128.4	6500	F313_128.4 S1 M1LA4	442	F313_128.4 P80 BN80A4	443
12.2	400	1.0	113.0	6130	F253_113.0 S1 M1LA4	438	F253_113.0 P80 BN80A4	439
12.3	399	1.5	112.5	6500	F313_112.5 S1 M1LA4	442	F313_112.5 P80 BN80A4	443
13.0	375	2.9	106.0	8500	F413_106.0 S1 M1LA4	446	F413_106.0 P80 BN80A4	447
13.1	373	1.1	105.4	6070	F253_105.4 S1 M1LA4	438	F253_105.4 P80 BN80A4	439
13.5	361	1.7	101.9	6500	F313_101.9 S1 M1LA4	442	F313_101.9 P80 BN80A4	443
14.5	338	1.2	95.5	5980	F253_95.5 S1 M1LA4	438	F253_95.5 P80 BN80A4	439
15.8	309	1.9	87.4	6500	F313_87.4 S1 M1LA4	442	F313_87.4 P80 BN80A4	443
16.5	295	1.4	83.4	5840	F253_83.4 S1 M1LA4	438	F253_83.4 P80 BN80A4	439
17.5	279	2.1	78.9	6500	F313_78.9 S1 M1LA4	442	F313_78.9 P80 BN80A4	443
18.0	278	0.9	76.8	4000	F202_76.8 S1 M1LA4	434	F202_76.8 P80 BN80A4	435
18.0	271	1.5	76.6	5750	F253_76.6 S1 M1LA4	438	F253_76.6 P80 BN80A4	439
20.0	250	1.0	69.1	3980	F202_69.1 S1 M1LA4	434	F202_69.1 P80 BN80A4	435
20.0	245	2.5	69.1	6500	F313_69.1 S1 M1LA4	442	F313_69.1 P80 BN80A4	443
21.1	231	1.7	65.3	5570	F253_65.3 S1 M1LA4	438	F253_65.3 P80 BN80A4	439
22.1	221	2.7	62.8	6500			F313_62.8 P80 BN80A4	443
22.3	224	1.1	61.9	3890	F202_61.9 S1 M1LA4	434	F202_61.9 P80 BN80A4	435
23.7	207	1.9	58.3	5430	F253_58.3 S1 M1LA4	438	F253_58.3 P80 BN80A4	439
24.3	205	1.2	56.7	3810	F202_56.7 S1 M1LA4	434	F202_56.7 P80 BN80A4	435
26.7	183	3.3	52.1	6500			F313_52.1 P80 BN80A4	443
27.2	184	1.4	50.7	3720	F202_50.7 S1 M1LA4	434	F202_50.7 P80 BN80A4	435
27.2	180	2.2	50.8	5270	F253_50.8 S1 M1LA4	438	F253_50.8 P80 BN80A4	439
29.2	167	3.5	47.5	6500			F313_47.5 P80 BN80A4	443
31	162	1.5	44.8	3610	F202_44.8 S1 M1LA4	434	F202_44.8 P80 BN80A4	435
31	161	2.4	44.4	5140	F252_44.4 S1 M1LA4	438	F252_44.4 P80 BN80A4	439
31	160	2.5	45.6	5130			F253_45.6 P80 BN80A4	439
33	151	1.7	41.8	3550	F202_41.8 S1 M1LA4	434	F202_41.8 P80 BN80A4	435
34	147	2.5	40.7	5030	F252_40.7 S1 M1LA4	438	F252_40.7 P80 BN80A4	439
35	143	1.0	39.6	2800	F102_39.6 S1 M1LA4	430	F102_39.6 P80 BN80A4	431
36	137	1.8	37.9	3460	F202_37.9 S1 M1LA4	434	F202_37.9 P80 BN80A4	435
38	132	3.0	36.4	4890	F252_36.4 S1 M1LA4	438	F252_36.4 P80 BN80A4	439
39	128	1.1	35.3	2800	F102_35.3 S1 M1LA4	430	F102_35.3 P80 BN80A4	431
42	119	1.2	33.0	2750	F102_33.0 S1 M1LA4	430	F102_33.0 P80 BN80A4	431
42	120	2.1	33.1	3340	F202_33.1 S1 M1LA4	434	F202_33.1 P80 BN80A4	435
43	116	3.4	32.2	4730	F252_32.2 S1 M1LA4	438	F252_32.2 P80 BN80A4	439
45	110	2.3	30.4	3260	F202_30.4 S1 M1LA4	434	F202_30.4 P80 BN80A4	435
47	107	1.3	29.6	2680	F102_29.6 S1 M1LA4	430	F102_29.6 P80 BN80A4	431
53	94	2.6	25.9	3130	F202_25.9 S1 M1LA4	434	F202_25.9 P80 BN80A4	435
54	93	1.5	25.8	2590	F102_25.8 S1 M1LA4	430	F102_25.8 P80 BN80A4	431
60	83	1.7	22.8	2510	F102_22.8 S1 M1LA4	430	F102_22.8 P80 BN80A4	431
60	84	2.8	23.1	3030	F202_23.1 S1 M1LA4	434	F202_23.1 P80 BN80A4	435
68	73	3.1	20.2	2910	F202_20.2 S1 M1LA4	434	F202_20.2 P80 BN80A4	435
71	70	1.9	19.3	2400	F102_19.3 S1 M1LA4	430	F102_19.3 P80 BN80A4	431

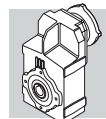


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n ₂	M ₂	S	i	R _{n2}				
77	65	3.3	18.1	2820	F202_18.1 S1 M1LA4	434	F202_18.1 P80 BN80A4	435
81	61	2.1	17.0	2310	F102_17.0 S1 M1LA4	430	F102_17.0 P80 BN80A4	431
94	53	2.2	14.6	2220	F102_14.6 S1 M1LA4	430	F102_14.6 P80 BN80A4	431
106	47	2.2	13.0	2140	F102_13.0 S1 M1LA4	430	F102_13.0 P80 BN80A4	431
120	42	2.3	11.5	2070	F102_11.5 S1 M1LA4	430	F102_11.5 P80 BN80A4	431
141	35	2.5	9.8	1970	F102_9.8 S1 M1LA4	430	F102_9.8 P80 BN80A4	431
161	31	2.6	8.6	1890	F102_8.6 S1 M1LA4	430	F102_8.6 P80 BN80A4	431
186	27	2.8	7.4	1810	F102_7.4 S1 M1LA4	430	F102_7.4 P80 BN80A4	431
193	26	3.6	14.6	1800	F102_14.6 S1 M1SD2	430	F102_14.6 P71 BN71B2	431
216	23	3.7	13.0	1730	F102_13.0 S1 M1SD2	430	F102_13.0 P71 BN71B2	431
244	20	3.8	11.5	1670	F102_11.5 S1 M1SD2	430	F102_11.5 P71 BN71B2	431
289	17	4.2	9.8	1590	F102_9.8 S1 M1SD2	430	F102_9.8 P71 BN71B2	431
329	15	4.4	8.6	1530	F102_8.6 S1 M1SD2	430	F102_8.6 P71 BN71B2	431
381	13	4.8	7.4	1460	F102_7.4 S1 M1SD2	430	F102_7.4 P71 BN71B2	431

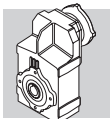
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
0.44	14876	0.9	2099	55000	F904_2099 S2 M2SB6	464	F904_2099 P90 BN90S6	465
0.47	13732	1.0	1937	55000	F904_1937 S2 M2SB6	464	F904_1937 P90 BN90S6	465
0.54	12067	1.2	1702	55000	F904_1702 S2 M2SB6	464	F904_1702 P90 BN90S6	465
0.59	11138	1.3	1571	55000	F904_1571 S2 M2SB6	464	F904_1571 P90 BN90S6	465
0.64	10121	1.4	1428	55000	F904_1428 S2 M2SB6	464	F904_1428 P90 BN90S6	465
0.67	9776	1.4	2099	55000	F904_2099 S2 M2SA4	464	F904_2099 P80 BN80B4	465
0.70	9255	0.9	1987	45000	F804_1987 S2 M2SA4	461	F804_1987 P80 BN80B4	462
0.72	9024	1.6	1937	55000	F904_1937 S2 M2SA4	464	F904_1937 P80 BN80B4	465
0.76	8543	0.9	1834	45000	F804_1834 S2 M2SA4	461	F804_1834 P80 BN80B4	462
0.82	7961	1.0	1709	45000	F804_1709 S2 M2SA4	461	F804_1709 P80 BN80B4	462
0.82	7930	1.8	1702	55000	F904_1702 S2 M2SA4	464	F904_1702 P80 BN80B4	465
0.89	7349	1.1	1578	45000	F804_1578 S2 M2SA4	461	F804_1578 P80 BN80B4	462
0.89	7320	1.9	1571	55000	F904_1571 S2 M2SA4	464	F904_1571 P80 BN80B4	465
0.98	6651	2.1	1428	55000	F904_1428 S2 M2SA4	464	F904_1428 P80 BN80B4	465
1.0	6446	1.2	1384	45000	F804_1384 S2 M2SA4	461	F804_1384 P80 BN80B4	462
1.1	5950	1.3	1277	45000	F804_1277 S2 M2SA4	461	F804_1277 P80 BN80B4	462
1.1	6140	2.3	1318	55000	F904_1318 S2 M2SA4	464	F904_1318 P80 BN80B4	465
1.2	5505	0.9	1182	35000	F704_1182 S2 M2SA4	458	F704_1182 P80 BN80B4	459
1.2	5339	1.5	1146	45000	F804_1146 S2 M2SA4	461	F804_1146 P80 BN80B4	462
1.2	5613	2.5	1205	55000	F904_1205 S2 M2SA4	464	F904_1205 P80 BN80B4	465
1.3	5082	1.0	1091	35000	F704_1091 S2 M2SA4	458	F704_1091 P80 BN80B4	459
1.3	4929	1.6	1058	45000	F804_1058 S2 M2SA4	461	F804_1058 P80 BN80B4	462
1.3	5181	2.7	1112	55000	F904_1112 S2 M2SA4	464	F904_1112 P80 BN80B4	465
1.4	4539	1.1	974.4	35000	F704_974.4 S2 M2SA4	458	F704_974.4 P80 BN80B4	459
1.5	4240	3.3	910.2	55000	F904_910.2 S2 M2SA4	464	F904_910.2 P80 BN80B4	465
1.6	4190	1.2	899.4	35000	F704_899.4 S2 M2SA4	458	F704_899.4 P80 BN80B4	459
1.6	4180	1.9	897.3	45000	F804_897.3 S2 M2SA4	461	F804_897.3 P80 BN80B4	462
1.7	3830	1.3	822.2	35000	F704_822.2 S2 M2SA4	458	F704_822.2 P80 BN80B4	459
1.8	3607	2.2	774.4	45000	F804_774.4 S2 M2SA4	461	F804_774.4 P80 BN80B4	462
2.0	3330	2.4	714.9	45000	F804_714.9 S2 M2SA4	461	F804_714.9 P80 BN80B4	462

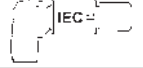


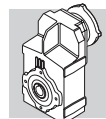
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
2.1	3085	0.9	662.4	20000	F604_662.4 S2 M2SA4	454	F604_662.4 P80 BN80B4	455
2.1	3062	1.6	657.4	35000	F704_657.4 S2 M2SA4	458	F704_657.4 P80 BN80B4	459
2.3	2848	1.0	611.4	20000	F604_611.4 S2 M2SA4	454	F604_611.4 P80 BN80B4	455
2.3	2827	1.8	606.8	35000	F704_606.8 S2 M2SA4	458	F704_606.8 P80 BN80B4	459
2.3	2845	2.8	610.9	45000	F804_610.9 S2 M2SA4	461	F804_610.9 P80 BN80B4	462
2.5	2627	3.0	563.9	45000	F804_563.9 S2 M2SA4	461	F804_563.9 P80 BN80B4	462
2.6	2472	1.2	530.7	20000	F604_530.7 S2 M2SA4	454	F604_530.7 P80 BN80B4	455
2.7	2378	2.1	510.4	35000	F704_510.4 S2 M2SA4	458	F704_510.4 P80 BN80B4	459
2.9	2282	1.3	489.8	20000	F604_489.8 S2 M2SA4	454	F604_489.8 P80 BN80B4	455
2.9	2278	3.5	489.1	45000	F804_489.1 S2 M2SA4	461	F804_489.1 P80 BN80B4	462
3.0	2195	2.3	471.2	35000	F704_471.2 S2 M2SA4	458	F704_471.2 P80 BN80B4	459
3.2	2015	1.4	432.6	20000	F604_432.6 S2 M2SA4	454	F604_432.6 P80 BN80B4	455
3.3	1999	0.9	429.1	12000	F514_429.1 S2 M2SA4	450	F514_429.1 P80 BN80B4	451
3.5	1860	1.6	399.3	20000	F604_399.3 S2 M2SA4	454	F604_399.3 P80 BN80B4	455
3.5	1880	2.7	403.5	35000	F704_403.5 S2 M2SA4	458	F704_403.5 P80 BN80B4	459
3.8	1735	2.9	372.5	35000	F704_372.5 S2 M2SA4	458	F704_372.5 P80 BN80B4	459
4.0	1678	1.1	352.5	12000	F513_352.5 S2 M2SA4	450	F513_352.5 P80 BN80B4	451
4.1	1592	1.8	341.7	20000	F604_341.7 S2 M2SA4	454	F604_341.7 P80 BN80B4	455
4.4	1510	1.2	317.3	12000	F513_317.3 S2 M2SA4	450	F513_317.3 P80 BN80B4	451
4.4	1469	2.0	315.4	20000	F604_315.4 S2 M2SA4	454	F604_315.4 P80 BN80B4	455
4.6	1418	3.5	304.3	35000	F704_304.3 S2 M2SA4	458	F704_304.3 P80 BN80B4	459
4.9	1361	1.3	285.9	12000	F513_285.9 S2 M2SA4	450	F513_285.9 P80 BN80B4	451
5.0	1335	2.2	280.7	20000	F603_280.7 S2 M2SA4	454	F603_280.7 P80 BN80B4	455
5.3	1248	1.4	262.1	12000	F513_262.1 S2 M2SA4	450	F513_262.1 P80 BN80B4	451
5.4	1233	2.4	259.1	20000	F603_259.1 S2 M2SA4	454	F603_259.1 P80 BN80B4	455
5.8	1143	1.0	240.1	8500	F413_240.1 S2 M2SA4	446	F413_240.1 P80 BN80B4	447
5.8	1142	1.6	239.8	12000	F513_239.8 S2 M2SA4	450	F513_239.8 P80 BN80B4	451
5.9	1122	2.6	235.8	20000	F603_235.8 S2 M2SA4	454	F603_235.8 P80 BN80B4	455
6.4	1048	1.0	220.1	8500	F413_220.1 S2 M2SA4	446	F413_220.1 P80 BN80B4	447
6.4	1036	2.8	217.6	20000	F603_217.6 S2 M2SA4	454	F603_217.6 P80 BN80B4	455
6.5	1032	1.7	216.9	12000	F513_216.9 S2 M2SA4	450	F513_216.9 P80 BN80B4	451
6.9	963	1.9	202.4	12000	F513_202.4 S2 M2SA4	450	F513_202.4 P80 BN80B4	451
7.0	958	3.0	201.4	20000	F603_201.4 S2 M2SA4	454	F603_201.4 P80 BN80B4	455
7.0	947	1.2	198.9	8500	F413_198.9 S2 M2SA4	446	F413_198.9 P80 BN80B4	447
7.5	885	3.3	185.9	20000	F603_185.9 S2 M2SA4	454	F603_185.9 P80 BN80B4	455
7.7	860	1.3	180.7	8500	F413_180.7 S2 M2SA4	446	F413_180.7 P80 BN80B4	447
8.3	803	1.4	168.7	8500	F413_168.7 S2 M2SA4	446	F413_168.7 P80 BN80B4	447
8.5	788	2.3	165.6	12000	F513_165.6 S2 M2SA4	450	F513_165.6 P80 BN80B4	451
8.6	775	3.7	162.9	20000	F603_162.9 S2 M2SA4	454	F603_162.9 P80 BN80B4	455
10.4	640	1.7	134.4	8500	F413_134.4 S2 M2SA4	446	F413_134.4 P80 BN80B4	447
10.8	618	2.9	129.9	12000	F513_129.9 S2 M2SA4	450	F513_129.9 P80 BN80B4	451
10.9	611	1.0	128.4	6500	F313_128.4 S2 M2SA4	442	F313_128.4 P80 BN80B4	443
12.4	536	1.1	112.5	6500	F313_112.5 S2 M2SA4	442	F313_112.5 P80 BN80B4	443
13.2	505	2.2	106.0	8500	F413_106.0 S2 M2SA4	446	F413_106.0 P80 BN80B4	447
13.7	485	1.2	101.9	6500	F313_101.9 S2 M2SA4	442	F313_101.9 P80 BN80B4	443
16.0	416	1.4	87.4	6500	F313_87.4 S2 M2SA4	442	F313_87.4 P80 BN80B4	443
16.5	404	2.7	84.9	8500	F413_84.9 S2 M2SA4	446	F413_84.9 P80 BN80B4	447
16.8	397	1.0	83.4	5350	F253_83.4 S2 M2SA4	438	F253_83.4 P80 BN80B4	439
17.8	375	1.6	78.9	6500	F313_78.9 S2 M2SA4	442	F313_78.9 P80 BN80B4	443
18.3	365	1.1	76.6	5300	F253_76.6 S2 M2SA4	438	F253_76.6 P80 BN80B4	439
20.3	329	1.8	69.1	6500	F313_69.1 S2 M2SA4	442	F313_69.1 P80 BN80B4	443

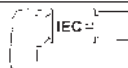


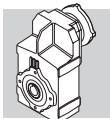
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
21.1	317	3.5	66.5	8500	F413_66.5 S2 M2SA4	446	F413_66.5 P80 BN80B4	447
21.4	311	1.3	65.3	5180	F253_65.3 S2 M2SA4	438	F253_65.3 P80 BN80B4	439
22.3	299	2.0	62.8	6500	F313_62.8 S2 M2SA4	442	F313_62.8 P80 BN80B4	443
24.0	278	1.4	58.3	5080	F253_58.3 S2 M2SA4	438	F253_58.3 P80 BN80B4	439
24.7	276	0.9	56.7	3590	F202_56.7 S2 M2SA4	434	F202_56.7 P80 BN80B4	435
26.9	248	2.4	52.1	6500	F313_52.1 S2 M2SA4	442	F313_52.1 P80 BN80B4	443
27.6	247	1.0	50.7	3510	F202_50.7 S2 M2SA4	434	F202_50.7 P80 BN80B4	435
27.6	242	1.7	50.8	4960	F253_50.8 S2 M2SA4	438	F253_50.8 P80 BN80B4	439
29.4	226	2.6	47.5	6500	F313_47.5 S2 M2SA4	442	F313_47.5 P80 BN80B4	443
31	218	1.1	44.8	3420	F202_44.8 S2 M2SA4	434	F202_44.8 P80 BN80B4	435
31	217	1.8	45.6	4860	F253_45.6 S2 M2SA4	438	F253_45.6 P80 BN80B4	439
31	217	2.8	44.6	6500	F312_44.6 S2 M2SA4	442	F312_44.6 P80 BN80B4	443
32	216	1.8	44.4	4890	F252_44.4 S2 M2SA4	438	F252_44.4 P80 BN80B4	439
33	203	1.2	41.8	3370	F202_41.8 S2 M2SA4	434	F202_41.8 P80 BN80B4	435
34	198	1.9	40.7	4790	F252_40.7 S2 M2SA4	438	F252_40.7 P80 BN80B4	439
35	196	3.1	40.4	6500	F312_40.4 S2 M2SA4	442	F312_40.4 P80 BN80B4	443
37	184	1.4	37.9	3300	F202_37.9 S2 M2SA4	434	F202_37.9 P80 BN80B4	435
37	183	3.3	37.7	6500	F312_37.7 S2 M2SA4	442	F312_37.7 P80 BN80B4	443
38	177	2.3	36.4	4680	F252_36.4 S2 M2SA4	438	F252_36.4 P80 BN80B4	439
42	161	1.6	33.1	3200	F202_33.1 S2 M2SA4	434	F202_33.1 P80 BN80B4	435
44	156	2.6	32.2	4540	F252_32.2 S2 M2SA4	438	F252_32.2 P80 BN80B4	439
46	148	1.7	30.4	3140	F202_30.4 S2 M2SA4	434	F202_30.4 P80 BN80B4	435
47	144	1.0	29.6	2550	F102_29.6 S2 M2SA4	430	F102_29.6 P80 BN80B4	431
47	146	2.7	30.0	4470	F252_30.0 S2 M2SA4	438	F252_30.0 P80 BN80B4	439
51	132	3	27.2	4360	F252_27.2 S2 M2SA4	438	F252_27.2 P80 BN80B4	439
54	125	1.1	25.8	2470	F102_25.8 S2 M2SA4	430	F102_25.8 P80 BN80B4	431
54	126	1.9	25.9	3020	F202_25.9 S2 M2SA4	434	F202_25.9 P80 BN80B4	435
59	116	3.5	23.8	4210	F252_23.8 S2 M2SA4	438	F252_23.8 P80 BN80B4	439
60	113	2.1	23.1	2930	F202_23.1 S2 M2SA4	434	F202_23.1 P80 BN80B4	435
61	111	1.3	22.8	2400	F102_22.8 S2 M2SA4	430	F102_22.8 P80 BN80B4	431
69	98	2.3	20.2	2830	F202_20.2 S2 M2SA4	434	F202_20.2 P80 BN80B4	435
72	94	1.4	19.3	2310	F102_19.3 S2 M2SA4	430	F102_19.3 P80 BN80B4	431
77	88	2.4	18.1	2740	F202_18.1 S2 M2SA4	434	F202_18.1 P80 BN80B4	435
82	83	1.6	17.0	2230	F102_17.0 S2 M2SA4	430	F102_17.0 P80 BN80B4	431
95	72	2.8	14.8	2600	F202_14.8 S2 M2SA4	434	F202_14.8 P80 BN80B4	435
96	71	1.7	14.6	2150	F102_14.6 S2 M2SA4	430	F102_14.6 P80 BN80B4	431
107	63	1.6	13.0	2070	F102_13.0 S2 M2SA4	430	F102_13.0 P80 BN80B4	431
121	56	1.7	11.5	2010	F102_11.5 S2 M2SA4	430	F102_11.5 P80 BN80B4	431
125	55	3.2	11.2	2390	F202_11.2 S2 M2SA4	434	F202_11.2 P80 BN80B4	435
143	48	1.9	9.8	1920	F102_9.8 S2 M2SA4	430	F102_9.8 P80 BN80B4	431
163	42	2.0	8.6	1850	F102_8.6 S2 M2SA4	430	F102_8.6 P80 BN80B4	431
189	36	2.1	7.4	1770	F102_7.4 S2 M2SA4	430	F102_7.4 P80 BN80B4	431
192	35	2.6	14.6	1770	F102_14.6 S1 M1LA2	430	F102_14.6 P80 BN80A2	431
216	32	2.7	13.0	1710	F102_13.0 S1 M1LA2	430	F102_13.0 P80 BN80A2	431
244	28	2.8	11.5	1650	F102_11.5 S1 M1LA2	430	F102_11.5 P80 BN80A2	431
288	24	3.1	9.8	1570	F102_9.8 S1 M1LA2	430	F102_9.8 P80 BN80A2	431
327	21	3.2	8.6	1510	F102_8.6 S1 M1LA2	430	F102_8.6 P80 BN80A2	431
380	18	3.5	7.4	1440	F102_7.4 S1 M1LA2	430	F102_7.4 P80 BN80A2	431



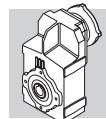
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
0.59	16336	0.9	1571	55000	F904_1571 S3 M3SA6	464	F904_1571 P90 BN90L6	465
0.64	14845	0.9	1428	55000	F904_1428 S3 M3SA6	464	F904_1428 P90 BN90L6	465
0.67	14338	1.0	2099	55000	F904_2099 S2 M2SB4	464	F904_2099 P90 BN90S4	465
0.72	13235	1.1	1937	55000	F904_1937 S2 M2SB4	464	F904_1937 P90 BN90S4	465
0.82	11630	1.2	1702	55000	F904_1702 S2 M2SB4	464	F904_1702 P90 BN90S4	465
0.89	10735	1.3	1571	55000	F904_1571 S2 M2SB4	464	F904_1571 P90 BN90S4	465
0.98	9755	1.4	1428	55000	F904_1428 S2 M2SB4	464	F904_1428 P90 BN90S4	465
1.1	8727	0.9	1277	45000	F804_1277 S2 M2SB4	461	F804_1277 P90 BN90S4	462
1.1	9005	1.6	1318	55000	F904_1318 S2 M2SB4	464	F904_1318 P90 BN90S4	465
1.2	7831	1.0	1146	45000	F804_1146 S2 M2SB4	461	F804_1146 P90 BN90S4	462
1.2	8232	1.7	1205	55000	F904_1205 S2 M2SB4	464	F904_1205 P90 BN90S4	465
1.3	7229	1.1	1058	45000	F804_1058 S2 M2SB4	461	F804_1058 P90 BN90S4	462
1.3	7599	1.8	1112	55000	F904_1112 S2 M2SB4	464	F904_1112 P90 BN90S4	465
1.5	6218	2.3	910.2	55000	F904_910.2 S2 M2SB4	464	F904_910.2 P90 BN90S4	465
1.6	6130	1.3	897.3	45000	F804_897.3 S2 M2SB4	461	F804_897.3 P90 BN90S4	462
1.7	5617	0.9	822.2	35000	F704_822.2 S2 M2SB4	458	F704_822.2 P90 BN90S4	459
1.8	5291	1.5	774.4	45000	F804_774.4 S2 M2SB4	461	F804_774.4 P90 BN90S4	462
1.8	5284	2.6	773.4	55000	F904_773.4 S2 M2SB4	464	F904_773.4 P90 BN90S4	465
1.9	5085	1.6	489.1	45000	F804_489.1 S3 M3SA6	461	F804_489.1 P90 BN90L6	462
1.9	5152	2.7	495.6	55000	F904_495.6 S3 M3SA6	464	F904_495.6 P90 BN90L6	465
2.0	4898	1.0	471.2	35000	F704_471.2 S3 M3SA6	458	F704_471.2 P90 BN90L6	459
2.0	4694	1.7	451.5	45000	F804_451.5 S3 M3SA6	461	F804_451.5 P90 BN90L6	462
2.0	4884	1.6	714.9	45000	F804_714.9 S2 M2SB4	461	F804_714.9 P90 BN90S4	462
2.1	4491	1.1	657.4	35000	F704_657.4 S2 M2SB4	458	F704_657.4 P90 BN90S4	459
2.2	4274	3.3	625.6	55000	F904_625.6 S2 M2SB4	464	F904_625.6 P90 BN90S4	465
2.3	4146	1.2	606.8	35000	F704_606.8 S2 M2SB4	458	F704_606.8 P90 BN90S4	459
2.3	4173	1.9	610.9	45000	F804_610.9 S2 M2SB4	461	F804_610.9 P90 BN90S4	462
2.4	3945	3.5	577.5	55000	F904_577.5 S2 M2SB4	464	F904_577.5 P90 BN90S4	465
2.5	3852	2.1	563.9	45000	F804_563.9 S2 M2SB4	461	F804_563.9 P90 BN90S4	462
2.7	3487	1.4	510.4	35000	F704_510.4 S2 M2SB4	458	F704_510.4 P90 BN90S4	459
2.9	3347	0.9	489.8	20000	F604_489.8 S2 M2SB4	454	F604_489.8 P90 BN90S4	455
2.9	3342	2.4	489.1	45000	F804_489.1 S2 M2SB4	461	F804_489.1 P90 BN90S4	462
3.0	3219	1.6	471.2	35000	F704_471.2 S2 M2SB4	458	F704_471.2 P90 BN90S4	459
3.1	3085	2.6	451.5	45000	F804_451.5 S2 M2SB4	461	F804_451.5 P90 BN90S4	462
3.2	2956	1.0	432.6	20000	F604_432.6 S2 M2SB4	454	F604_432.6 P90 BN90S4	455
3.5	2728	1.1	399.3	20000	F604_399.3 S2 M2SB4	454	F604_399.3 P90 BN90S4	455
3.5	2757	1.8	403.5	35000	F704_403.5 S2 M2SB4	458	F704_403.5 P90 BN90S4	459
3.7	2618	3.1	383.2	45000	F804_383.2 S2 M2SB4	461	F804_383.2 P90 BN90S4	462
3.8	2545	2.0	372.5	35000	F704_372.5 S2 M2SB4	458	F704_372.5 P90 BN90S4	459
4.0	2416	3.3	353.7	45000	F804_353.7 S2 M2SB4	461	F804_353.7 P90 BN90S4	462
4.1	2334	1.2	341.7	20000	F604_341.7 S2 M2SB4	454	F604_341.7 P90 BN90S4	455
4.4	2155	1.3	315.4	20000	F604_315.4 S2 M2SB4	454	F604_315.4 P90 BN90S4	455
4.6	2079	2.4	304.3	35000	F704_304.3 S2 M2SB4	458	F704_304.3 P90 BN90S4	459
4.9	1996	0.9	285.9	12000	F513_285.9 S2 M2SB4	450	F513_285.9 P90 BN90S4	451
5.0	1960	1.5	280.7	20000	F603_280.7 S2 M2SB4	454	F603_280.7 P90 BN90S4	455
5.0	1919	2.6	280.9	35000	F704_280.9 S2 M2SB4	458	F704_280.9 P90 BN90S4	459
5.3	1830	1.0	262.1	12000	F513_262.1 S2 M2SB4	450	F513_262.1 P90 BN90S4	451
5.8	1675	1.1	239.8	12000	F513_239.8 S2 M2SB4	450	F513_239.8 P90 BN90S4	451
6.0	1603	3.1	234.6	35000	F704_234.6 S2 M2SB4	458	F704_234.6 P90 BN90S4	459
6.5	1514	1.2	216.9	12000	F513_216.9 S2 M2SB4	450	F513_216.9 P90 BN90S4	451
6.5	1479	3.4	216.5	35000	F704_216.5 S2 M2SB4	458	F704_216.5 P90 BN90S4	459



1.1 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
6.9	1413	1.3	202.4	12000	F513_202.4 S2 M2SB4	450	F513_202.4 P90 BN90S4	451
8.3	1178	0.9	168.7	8500	F413_168.7 S2 M2SB4	446	F413_168.7 P90 BN90S4	447
8.5	1156	1.6	165.6	12000	F513_165.6 S2 M2SB4	450	F513_165.6 P90 BN90S4	451
10.4	938	1.2	134.4	8500	F413_134.4 S2 M2SB4	446	F413_134.4 P90 BN90S4	447
10.8	907	2.0	129.9	12000	F513_129.9 S2 M2SB4	450	F513_129.9 P90 BN90S4	451
13.2	740	1.5	106.0	8500	F413_106.0 S2 M2SB4	446	F413_106.0 P90 BN90S4	447
13.3	734	2.5	105.1	12000	F513_105.1 S2 M2SB4	450	F513_105.1 P90 BN90S4	451
16.0	610	1.0	87.4	6500	F313_87.4 S2 M2SB4	442	F313_87.4 P90 BN90S4	443
16.5	593	1.9	84.9	8500	F413_84.9 S2 M2SB4	446	F413_84.9 P90 BN90S4	447
16.8	581	3.1	83.2	12000	F513_83.2 S2 M2SB4	450	F513_83.2 P90 BN90S4	451
17.8	551	1.1	78.9	6500	F313_78.9 S2 M2SB4	442	F313_78.9 P90 BN90S4	443
20.3	482	1.2	69.1	6500	F313_69.1 S2 M2SB4	442	F313_69.1 P90 BN90S4	443
21.1	464	2.4	66.5	8500	F413_66.5 S2 M2SB4	446	F413_66.5 P90 BN90S4	447
22.3	438	1.4	62.8	6500	F313_62.8 S2 M2SB4	442	F313_62.8 P90 BN90S4	443
23.2	421	2.6	60.2	8500	F413_60.2 S2 M2SB4	446	F413_60.2 P90 BN90S4	447
24.0	407	1.0	58.3	4500	F253_58.3 S2 M2SB4	438	F253_58.3 P90 BN90S4	439
26.9	364	1.6	52.1	6500	F313_52.1 S2 M2SB4	442	F313_52.1 P90 BN90S4	443
27.2	360	3.0	51.5	8500	F413_51.5 S2 M2SB4	446	F413_51.5 P90 BN90S4	447
27.6	355	1.1	50.8	4450	F253_50.8 S2 M2SB4	438	F253_50.8 P90 BN90S4	439
29.2	342	3.1	47.9	8500	F412_47.9 S2 M2SB4	446	F412_47.9 P90 BN90S4	447
29.4	332	1.7	47.5	6500	F313_47.5 S2 M2SB4	442	F313_47.5 P90 BN90S4	443
31	318	1.3	45.6	4400	F253_45.6 S2 M2SB4	438	F253_45.6 P90 BN90S4	439
31	318	1.9	44.6	6500	F312_44.6 S2 M2SB4	442	F312_44.6 P90 BN90S4	443
32	317	1.2	44.4	4470	F252_44.4 S2 M2SB4	438	F252_44.4 P90 BN90S4	439
34	290	1.3	40.7	4410	F252_40.7 S2 M2SB4	438	F252_40.7 P90 BN90S4	439
35	288	2.1	40.4	6500	F312_40.4 S2 M2SB4	442	F312_40.4 P90 BN90S4	443
37	270	0.9	37.9	3050	F202_37.9 S2 M2SB4	434	F202_37.9 P90 BN90S4	435
37	269	2.2	37.7	6500	F312_37.7 S2 M2SB4	442	F312_37.7 P90 BN90S4	443
38	260	1.5	36.4	4330	F252_36.4 S2 M2SB4	438	F252_36.4 P90 BN90S4	439
41	245	2.4	34.4	6500	F312_34.4 S2 M2SB4	442	F312_34.4 P90 BN90S4	443
42	236	1.1	33.1	2980	F202_33.1 S2 M2SB4	434	F202_33.1 P90 BN90S4	435
44	230	1.7	32.2	4240	F252_32.2 S2 M2SB4	438	F252_32.2 P90 BN90S4	439
46	217	1.2	30.4	2930	F202_30.4 S2 M2SB4	434	F202_30.4 P90 BN90S4	435
46	215	2.8	30.1	6500	F312_30.1 S2 M2SB4	442	F312_30.1 P90 BN90S4	443
47	214	1.9	30.0	4190	F252_30.0 S2 M2SB4	438	F252_30.0 P90 BN90S4	439
51	194	2.1	27.2	4100	F252_27.2 S2 M2SB4	438	F252_27.2 P90 BN90S4	439
51	195	3.1	27.3	6500	F312_27.3 S2 M2SB4	442	F312_27.3 P90 BN90S4	443
54	185	1.3	25.9	2840	F202_25.9 S2 M2SB4	434	F202_25.9 P90 BN90S4	435
59	169	2.4	23.8	3990	F252_23.8 S2 M2SB4	438	F252_23.8 P90 BN90S4	439
60	165	1.4	23.1	2780	F202_23.1 S2 M2SB4	434	F202_23.1 P90 BN90S4	435
64	156	2.6	21.8	3920	F252_21.8 S2 M2SB4	438	F252_21.8 P90 BN90S4	439
69	144	1.6	20.2	2690	F202_20.2 S2 M2SB4	434	F202_20.2 P90 BN90S4	435
72	138	1.0	19.3	2170	F102_19.3 S2 M2SB4	430	F102_19.3 P90 BN90S4	431
75	133	3.0	18.6	3780	F252_18.6 S2 M2SB4	438	F252_18.6 P90 BN90S4	439
77	129	1.7	18.1	2620	F202_18.1 S2 M2SB4	434	F202_18.1 P90 BN90S4	435
82	121	1.1	17.0	2110	F102_17.0 S2 M2SB4	430	F102_17.0 P90 BN90S4	431
84	119	3.4	16.6	3670	F252_16.6 S2 M2SB4	438	F252_16.6 P90 BN90S4	439
95	106	1.9	14.8	2500	F202_14.8 S2 M2SB4	434	F202_14.8 P90 BN90S4	435
96	104	1.1	14.6	2050	F102_14.6 S2 M2SB4	430	F102_14.6 P90 BN90S4	431
107	93	1.1	13.0	1980	F102_13.0 S2 M2SB4	430	F102_13.0 P90 BN90S4	431
121	82	1.2	11.5	1920	F102_11.5 S2 M2SB4	430	F102_11.5 P90 BN90S4	431

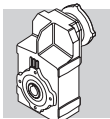


1.1 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
125	80	2.2	11.2	2310	F202_11.2 S2 M2SB4	434	F202_11.2 P90 BN90S4	435
143	70	1.3	9.8	1840	F102_9.8 S2 M2SB4	430	F102_9.8 P90 BN90S4	431
160	62	2.5	8.7	2160	F202_8.7 S2 M2SB4	434	F202_8.7 P90 BN90S4	435
163	61	1.3	8.6	1780	F102_8.6 S2 M2SB4	430	F102_8.6 P90 BN90S4	431
179	56	2.6	7.8	2100	F202_7.8 S2 M2SB4	434	F202_7.8 P90 BN90S4	435
189	53	1.4	7.4	1720	F102_7.4 S2 M2SB4	430	F102_7.4 P90 BN90S4	431
218	46	2.8	6.4	1980	F202_6.4 S2 M2SB4	434	F202_6.4 P90 BN90S4	435
243	41	1.9	11.5	1600	F102_11.5 S2 M2SA2	430	F102_11.5 P80 BN80B2	431
249	40	3.5	11.2	1910	F202_11.2 S2 M2SA2	434	F202_11.2 P80 BN80B2	435
287	35	2.1	9.8	1530	F102_9.8 S2 M2SA2	430	F102_9.8 P80 BN80B2	431
326	31	2.2	8.6	1480	F102_8.6 S2 M2SA2	430	F102_8.6 P80 BN80B2	431
378	26	2.4	7.4	1410	F102_7.4 S2 M2SA2	430	F102_7.4 P80 BN80B2	431

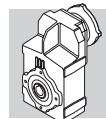
1.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
0.83	15747	0.9	1702	55000	F904_1702 S3 M3SA4	464	F904_1702 P90 BN90LA4	465
0.90	14535	1.0	1571	55000	F904_1571 S3 M3SA4	464	F904_1571 P90 BN90LA4	465
0.99	13208	1.1	1428	55000	F904_1428 S3 M3SA4	464	F904_1428 P90 BN90LA4	465
1.1	12192	1.1	1318	55000	F904_1318 S3 M3SA4	464	F904_1318 P90 BN90LA4	465
1.2	11146	1.3	1205	55000	F904_1205 S3 M3SA4	464	F904_1205 P90 BN90LA4	465
1.3	10288	1.4	1112	55000	F904_1112 S3 M3SA4	464	F904_1112 P90 BN90LA4	465
1.5	8419	1.7	910.2	55000	F904_910.2 S3 M3SA4	464	F904_910.2 P90 BN90LA4	465
1.6	8300	1.0	897.3	45000	F804_897.3 S3 M3SA4	461	F804_897.3 P90 BN90LA4	462
1.8	7164	1.1	774.4	45000	F804_774.4 S3 M3SA4	461	F804_774.4 P90 BN90LA4	462
1.8	7154	2.0	773.4	55000	F904_773.4 S3 M3SA4	464	F904_773.4 P90 BN90LA4	465
2.0	6612	1.2	714.9	45000	F804_714.9 S3 M3SA4	461	F804_714.9 P90 BN90LA4	462
2.3	5613	0.9	606.8	35000	F704_606.8 S3 M3SA4	458	F704_606.8 P90 BN90LA4	459
2.3	5651	1.4	610.9	45000	F804_610.9 S3 M3SA4	461	F804_610.9 P90 BN90LA4	462
2.3	5787	2.4	625.6	55000	F904_625.6 S3 M3SA4	464	F904_625.6 P90 BN90LA4	465
2.4	5342	2.6	577.5	55000	F904_577.5 S3 M3SA4	464	F904_577.5 P90 BN90LA4	465
2.5	5216	1.5	563.9	45000	F804_563.9 S3 M3SA4	461	F804_563.9 P90 BN90LA4	462
2.8	4721	1.1	510.4	35000	F704_510.4 S3 M3SA4	458	F704_510.4 P90 BN90LA4	459
2.8	4584	3.1	495.6	55000	F904_495.6 S3 M3SA4	464	F904_495.6 P90 BN90LA4	465
2.9	4524	1.8	489.1	45000	F804_489.1 S3 M3SA4	461	F804_489.1 P90 BN90LA4	462
3.0	4358	1.1	471.2	35000	F704_471.2 S3 M3SA4	458	F704_471.2 P90 BN90LA4	459
3.1	4176	1.9	451.5	45000	F804_451.5 S3 M3SA4	461	F804_451.5 P90 BN90LA4	462
3.1	4231	3.3	457.5	55000	F904_457.5 S3 M3SA4	464	F904_457.5 P90 BN90LA4	465
3.5	3732	1.3	403.5	35000	F704_403.5 S3 M3SA4	458	F704_403.5 P90 BN90LA4	459
3.7	3544	2.3	383.2	45000	F804_383.2 S3 M3SA4	461	F804_383.2 P90 BN90LA4	462
3.8	3445	1.5	372.5	35000	F704_372.5 S3 M3SA4	458	F704_372.5 P90 BN90LA4	459
4.0	3272	2.4	353.7	45000	F804_353.7 S3 M3SA4	461	F804_353.7 P90 BN90LA4	462
4.1	3160	0.9	341.7	20000	F604_341.7 S3 M3SA4	454	F604_341.7 P90 BN90LA4	455
4.5	2917	1.0	315.4	20000	F604_315.4 S3 M3SA4	454	F604_315.4 P90 BN90LA4	455
4.6	2815	1.8	304.3	35000	F704_304.3 S3 M3SA4	458	F704_304.3 P90 BN90LA4	459
4.8	2745	2.9	296.7	45000	F804_296.7 S3 M3SA4	461	F804_296.7 P90 BN90LA4	462
5.0	2653	1.1	280.7	20000	F603_280.7 S3 M3SA4	454	F603_280.7 P90 BN90LA4	455
5.0	2599	1.9	280.9	35000	F704_280.9 S3 M3SA4	458	F704_280.9 P90 BN90LA4	459



1.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
5.1	2534	3.2	273.9	45000	F804_273.9 S3 M3SA4	461	F804_273.9 P90 BN90LA4	462
5.4	2449	1.2	259.1	20000	F603_259.1 S3 M3SA4	454	F603_259.1 P90 BN90LA4	455
6.0	2229	1.3	235.8	20000	F603_235.8 S3 M3SA4	454	F603_235.8 P90 BN90LA4	455
6.0	2170	2.3	234.6	35000	F704_234.6 S3 M3SA4	458	F704_234.6 P90 BN90LA4	459
6.5	2057	1.4	217.6	20000	F603_217.6 S3 M3SA4	454	F603_217.6 P90 BN90LA4	455
6.5	2003	2.5	216.5	35000	F704_216.5 S3 M3SA4	458	F704_216.5 P90 BN90LA4	459
7.0	1913	0.9	202.4	12000	F513_202.4 S3 M3SA4	450	F513_202.4 P90 BN90LA4	451
7.0	1904	1.5	201.4	20000	F603_201.4 S3 M3SA4	454	F603_201.4 P90 BN90LA4	455
7.2	1853	2.7	196.0	35000	F703_196.0 S3 M3SA4	458	F703_196.0 P90 BN90LA4	459
7.6	1757	1.7	185.9	20000	F603_185.9 S3 M3SA4	454	F603_185.9 P90 BN90LA4	455
7.8	1711	2.9	180.9	35000	F703_180.9 S3 M3SA4	458	F703_180.9 P90 BN90LA4	459
8.5	1566	1.1	165.6	12000	F513_165.6 S3 M3SA4	450	F513_165.6 P90 BN90LA4	451
8.5	1576	3.2	166.7	35000	F703_166.7 S3 M3SA4	458	F703_166.7 P90 BN90LA4	459
8.7	1540	1.9	162.9	20000	F603_162.9 S3 M3SA4	454	F603_162.9 P90 BN90LA4	455
9.2	1454	3.4	153.8	35000	F703_153.8 S3 M3SA4	458	F703_153.8 P90 BN90LA4	459
9.4	1421	2.0	150.4	20000	F603_150.4 S3 M3SA4	454	F603_150.4 P90 BN90LA4	455
10.8	1234	2.4	130.5	20000	F603_130.5 S3 M3SA4	454	F603_130.5 P90 BN90LA4	455
10.9	1228	1.5	129.9	12000	F513_129.9 S3 M3SA4	450	F513_129.9 P90 BN90LA4	451
11.7	1139	2.5	120.5	20000	F603_120.5 S3 M3SA4	454	F603_120.5 P90 BN90LA4	455
13.3	1002	1.1	106.0	8500	F413_106.0 S3 M3SA4	446	F413_106.0 P90 BN90LA4	447
13.3	1006	2.9	106.4	20000	F603_106.4 S3 M3SA4	454	F603_106.4 P90 BN90LA4	455
13.4	993	1.8	105.1	12000	F513_105.1 S3 M3SA4	450	F513_105.1 P90 BN90LA4	451
14.4	928	3.1	98.2	20000	F603_98.2 S3 M3SA4	454	F603_98.2 P90 BN90LA4	455
16.6	802	1.4	84.9	8500	F413_84.9 S3 M3SA4	446	F413_84.9 P90 BN90LA4	447
16.9	787	2.3	83.2	12000	F513_83.2 S3 M3SA4	450	F513_83.2 P90 BN90LA4	451
20.4	653	0.9	69.1	6500	F313_69.1 S3 M3SA4	442	F313_69.1 P90 BN90LA4	443
21.2	629	1.7	66.5	8500	F413_66.5 S3 M3SA4	446	F413_66.5 P90 BN90LA4	447
21.4	622	2.9	65.8	12000	F513_65.8 S3 M3SA4	450	F513_65.8 P90 BN90LA4	451
22.5	593	1.0	62.8	6500	F313_62.8 S3 M3SA4	442	F313_62.8 P90 BN90LA4	443
23.4	570	1.9	60.2	8500	F413_60.2 S3 M3SA4	446	F413_60.2 P90 BN90LA4	447
27.1	492	1.2	52.1	6500	F313_52.1 S3 M3SA4	442	F313_52.1 P90 BN90LA4	443
27.4	487	2.2	51.5	8500	F413_51.5 S3 M3SA4	446	F413_51.5 P90 BN90LA4	447
29.4	463	2.3	47.9	8500	F412_47.9 S3 M3SA4	446	F412_47.9 P90 BN90LA4	447
29.7	449	1.3	47.5	6500	F313_47.5 S3 M3SA4	442	F313_47.5 P90 BN90LA4	443
31	431	0.9	45.6	3880	F253_45.6 S3 M3SA4	438	F253_45.6 P90 BN90LA4	439
32	431	1.4	44.6	6500	F312_44.6 S3 M3SA4	442	F312_44.6 P90 BN90LA4	443
35	393	1.0	40.7	3970	F252_40.7 S3 M3SA4	438	F252_40.7 P90 BN90LA4	439
35	390	1.5	40.4	6500	F312_40.4 S3 M3SA4	442	F312_40.4 P90 BN90LA4	443
37	364	1.6	37.7	6500	F312_37.7 S3 M3SA4	442	F312_37.7 P90 BN90LA4	443
37	369	3.0	38.2	8500	F412_38.2 S3 M3SA4	446	F412_38.2 P90 BN90LA4	447
39	352	1.1	36.4	3940	F252_36.4 S3 M3SA4	438	F252_36.4 P90 BN90LA4	439
41	332	1.8	34.4	6500	F312_34.4 S3 M3SA4	442	F312_34.4 P90 BN90LA4	443
44	311	1.3	32.2	3890	F252_32.2 S3 M3SA4	438	F252_32.2 P90 BN90LA4	439
47	290	1.4	30.0	3860	F252_30.0 S3 M3SA4	438	F252_30.0 P90 BN90LA4	439
47	291	2.1	30.1	6500	F312_30.1 S3 M3SA4	442	F312_30.1 P90 BN90LA4	443
52	263	1.5	27.2	3810	F252_27.2 S3 M3SA4	438	F252_27.2 P90 BN90LA4	439
52	263	2.3	27.3	6500	F312_27.3 S3 M3SA4	442	F312_27.3 P90 BN90LA4	443
54	250	1.0	25.9	2640	F202_25.9 S3 M3SA4	434	F202_25.9 P90 BN90LA4	435
59	229	1.7	23.8	3730	F252_23.8 S3 M3SA4	438	F252_23.8 P90 BN90LA4	439
60	226	2.7	23.4	6480	F312_23.4 S3 M3SA4	442	F312_23.4 P90 BN90LA4	443
61	224	1.1	23.1	2600	F202_23.1 S3 M3SA4	434	F202_23.1 P90 BN90LA4	435

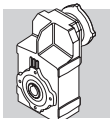


1.5 kW

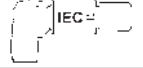
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
65	211	1.9	21.8	3680	F252_21.8 S3 M3SA4	438	F252_21.8 P90 BN90LA4	439
67	204	2.9	21.1	6320	F312_21.1 S3 M3SA4	442	F312_21.1 P90 BN90LA4	443
70	195	1.1	20.2	2530	F202_20.2 S3 M3SA4	434	F202_20.2 P90 BN90LA4	435
76	180	2.2	18.6	3570	F252_18.6 S3 M3SA4	438	F252_18.6 P90 BN90LA4	439
76	179	3.4	18.5	6110	F312_18.5 S3 M3SA4	442	F312_18.5 P90 BN90LA4	443
78	175	1.2	18.1	2480	F202_18.1 S3 M3SA4	434	F202_18.1 P90 BN90LA4	435
85	161	2.5	16.6	3490	F252_16.6 S3 M3SA4	438	F252_16.6 P90 BN90LA4	439
95	143	1.4	14.8	2380	F202_14.8 S3 M3SA4	434	F202_14.8 P90 BN90LA4	435
97	140	2.9	14.5	3390	F252_14.5 S3 M3SA4	438	F252_14.5 P90 BN90LA4	439
109	125	3.2	13	3310	F252_13.0 S3 M3SA4	438	F252_13.0 P90 BN90LA4	439
126	108	1.6	11.2	2220	F202_11.2 S3 M3SA4	434	F202_11.2 P90 BN90LA4	435
144	94	0.9	9.8	1760	F102_9.8 S3 M3SA4	430	F102_9.8 P90 BN90LA4	431
151	90	2.9	9.4	3070	F252_9.4 S3 M3SA4	438	F252_9.4 P90 BN90LA4	439
161	84	1.8	8.7	2090	F202_8.7 S3 M3SA4	434	F202_8.7 P90 BN90LA4	435
164	83	1.0	8.6	1710	F102_8.6 S3 M3SA4	430	F102_8.6 P90 BN90LA4	431
168	81	3.2	8.4	2980	F252_8.4 S3 M3SA4	438	F252_8.4 P90 BN90LA4	439
180	76	1.9	7.8	2030	F202_7.8 S3 M3SA4	434	F202_7.8 P90 BN90LA4	435
190	72	1.1	7.4	1650	F102_7.4 S3 M3SA4	430	F102_7.4 P90 BN90LA4	431
220	62	2.1	6.4	1930	F202_6.4 S3 M3SA4	434	F202_6.4 P90 BN90LA4	435
243	56	1.4	11.5	1560	F102_11.5 S2 M2SB2	430	F102_11.5 P90 BN90SA2	431
249	55	2.6	11.2	1860	F202_11.2 S2 M2SB2	434	F202_11.2 P90 BN90SA2	435
287	48	1.5	9.8	1490	F102_9.8 S2 M2SB2	430	F102_9.8 P90 BN90SA2	431
321	42	2.9	8.7	1740	F202_8.7 S2 M2SB2	434	F202_8.7 P90 BN90SA2	435
326	42	1.6	8.6	1440	F102_8.6 S2 M2SB2	430	F102_8.6 P90 BN90SA2	431
357	38	3.0	7.8	1680	F202_7.8 S2 M2SB2	434	F202_7.8 P90 BN90SA2	435
378	36	1.7	7.4	1380	F102_7.4 S2 M2SB2	430	F102_7.4 P90 BN90SA2	431
437	31	3.3	6.4	1590	F202_6.4 S2 M2SB2	434	F202_6.4 P90 BN90SA2	435

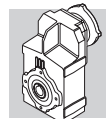
2.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
1.2	16347	0.9	1205	55000	F904_1205 S3 M3LA4	464	F904_1205 P100 BN100LA4	465
1.3	15090	0.9	1112	55000	F904_1112 S3 M3LA4	464	F904_1112 P100 BN100LA4	465
1.5	12348	1.1	910.2	55000	F904_910.2 S3 M3LA4	464	F904_910.2 P100 BN100LA4	465
1.8	10493	1.3	773.4	55000	F904_773.4 S3 M3LA4	464	F904_773.4 P100 BN100LA4	465
2.3	8287	1.0	610.9	45000	F804_610.9 S3 M3LA4	461	F804_610.9 P100 BN100LA4	462
2.3	8488	1.6	625.6	55000	F904_625.6 S3 M3LA4	464	F904_625.6 P100 BN100LA4	465
2.4	7835	1.8	577.5	55000	F904_577.5 S3 M3LA4	464	F904_577.5 P100 BN100LA4	465
2.5	7650	1.0	563.9	45000	F804_563.9 S3 M3LA4	461	F804_563.9 P100 BN100LA4	462
2.8	6723	2.1	495.6	55000	F904_495.6 S3 M3LA4	464	F904_495.6 P100 BN100LA4	465
2.9	6636	1.2	489.1	45000	F804_489.1 S3 M3LA4	461	F804_489.1 P100 BN100LA4	462
3.1	6125	1.3	451.5	45000	F804_451.5 S3 M3LA4	461	F804_451.5 P100 BN100LA4	462
3.1	6206	2.3	457.5	55000	F904_457.5 S3 M3LA4	464	F904_457.5 P100 BN100LA4	465
3.5	5474	0.9	403.5	35000	F704_403.5 S3 M3LA4	458	F704_403.5 P100 BN100LA4	459
3.7	5198	1.5	383.2	45000	F804_383.2 S3 M3LA4	461	F804_383.2 P100 BN100LA4	462
3.8	5053	1.0	372.5	35000	F704_372.5 S3 M3LA4	458	F704_372.5 P100 BN100LA4	459
3.9	4909	2.9	361.8	55000	F904_361.8 S3 M3LA4	464	F904_361.8 P100 BN100LA4	465
4.0	4798	1.7	353.7	45000	F804_353.7 S3 M3LA4	461	F804_353.7 P100 BN100LA4	462

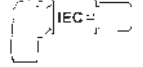


2.2 kW

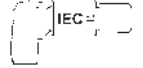
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
4.6	4129	1.2	304.3	35000	F704_304.3 S3 M3LA4	458	F704_304.3 P100 BN100LA4	459
4.8	4025	2.0	296.7	45000	F804_296.7 S3 M3LA4	461	F804_296.7 P100 BN100LA4	462
4.8	3950	3.5	291.1	55000	F904_291.1 S3 M3LA4	464	F904_291.1 P100 BN100LA4	465
5.0	3811	1.3	280.9	35000	F704_280.9 S3 M3LA4	458	F704_280.9 P100 BN100LA4	459
5.1	3716	2.2	273.9	45000	F804_273.9 S3 M3LA4	461	F804_273.9 P100 BN100LA4	462
6.0	3182	1.6	234.6	35000	F704_234.6 S3 M3LA4	458	F704_234.6 P100 BN100LA4	459
6.5	3018	1.0	217.6	20000	F603_217.6 S3 M3LA4	454	F603_217.6 P100 BN100LA4	455
6.5	2938	1.7	216.5	35000	F704_216.5 S3 M3LA4	458	F704_216.5 P100 BN100LA4	459
6.5	2964	2.7	218.5	45000	F804_218.5 S3 M3LA4	461	F804_218.5 P100 BN100LA4	462
7.0	2792	1.0	201.4	20000	F603_201.4 S3 M3LA4	454	F603_201.4 P100 BN100LA4	455
7.2	2718	1.8	196.0	35000	F703_196.0 S3 M3LA4	458	F703_196.0 P100 BN100LA4	459
7.6	2577	1.1	185.9	20000	F603_185.9 S3 M3LA4	454	F603_185.9 P100 BN100LA4	455
7.6	2560	3.1	184.6	45000	F803_184.6 S3 M3LA4	461	F803_184.6 P100 BN100LA4	462
7.8	2509	2.0	180.9	35000	F703_180.9 S3 M3LA4	458	F703_180.9 P100 BN100LA4	459
8.5	2311	2.2	166.7	35000	F703_166.7 S3 M3LA4	458	F703_166.7 P100 BN100LA4	459
8.7	2258	1.3	162.9	20000	F603_162.9 S3 M3LA4	454	F603_162.9 P100 BN100LA4	455
9.2	2133	2.3	153.8	35000	F703_153.8 S3 M3LA4	458	F703_153.8 P100 BN100LA4	459
9.4	2085	1.4	150.4	20000	F603_150.4 S3 M3LA4	454	F603_150.4 P100 BN100LA4	455
10.6	1843	2.7	133.0	35000	F703_133.0 S3 M3LA4	458	F703_133.0 P100 BN100LA4	459
10.8	1809	1.6	130.5	20000	F603_130.5 S3 M3LA4	454	F603_130.5 P100 BN100LA4	455
10.9	1801	1.0	129.9	12000	F513_129.9 S3 M3LA4	450	F513_129.9 P100 BN100LA4	451
11.5	1702	2.9	122.7	35000	F703_122.7 S3 M3LA4	458	F703_122.7 P100 BN100LA4	459
11.7	1670	1.7	120.5	20000	F603_120.5 S3 M3LA4	454	F603_120.5 P100 BN100LA4	455
12.9	1520	3.3	109.6	35000	F703_109.6 S3 M3LA4	458	F703_109.6 P100 BN100LA4	459
13.3	1475	2.0	106.4	20000	F603_106.4 S3 M3LA4	454	F603_106.4 P100 BN100LA4	455
13.4	1457	1.2	105.1	12000	F513_105.1 S3 M3LA4	450	F513_105.1 P100 BN100LA4	451
14.4	1362	2.1	98.2	20000	F603_98.2 S3 M3LA4	454	F603_98.2 P100 BN100LA4	455
16.6	1177	0.9	84.9	8500	F413_84.9 S3 M3LA4	446	F413_84.9 P100 BN100LA4	447
16.8	1165	2.5	84.0	20000	F603_84.0 S3 M3LA4	454	F603_84.0 P100 BN100LA4	455
16.9	1154	1.6	83.2	12000	F513_83.2 S3 M3LA4	450	F513_83.2 P100 BN100LA4	451
18.2	1075	2.7	77.6	20000	F603_77.6 S3 M3LA4	454	F603_77.6 P100 BN100LA4	455
20.7	947	3.1	68.3	20000	F603_68.3 S3 M3LA4	454	F603_68.3 P100 BN100LA4	455
21.2	922	1.2	66.5	8500	F413_66.5 S3 M3LA4	446	F413_66.5 P100 BN100LA4	447
21.4	913	2.0	65.8	12000	F513_65.8 S3 M3LA4	450	F513_65.8 P100 BN100LA4	451
22.4	874	3.3	63.0	20000	F603_63.0 S3 M3LA4	454	F603_63.0 P100 BN100LA4	455
23.4	835	1.3	60.2	8500	F413_60.2 S3 M3LA4	446	F413_60.2 P100 BN100LA4	447
27.4	714	1.5	51.5	8500	F413_51.5 S3 M3LA4	446	F413_51.5 P100 BN100LA4	447
28.8	678	2.7	48.9	12000	F513_48.9 S3 M3LA4	450	F513_48.9 P100 BN100LA4	451
29.4	679	1.6	47.9	8500	F412_47.9 S3 M3LA4	446	F412_47.9 P100 BN100LA4	447
32	632	0.9	44.6	6500	F312_44.6 S3 M3LA4	442	F312_44.6 P100 BN100LA4	443
35	572	1.0	40.4	6500	F312_40.4 S3 M3LA4	442	F312_40.4 P100 BN100LA4	443
37	534	1.1	37.7	6500	F312_37.7 S3 M3LA4	442	F312_37.7 P100 BN100LA4	443
37	541	2.0	38.2	8500	F412_38.2 S3 M3LA4	446	F412_38.2 P100 BN100LA4	447
38	526	3.2	37.1	12000	F512_37.1 S3 M3LA4	450	F512_37.1 P100 BN100LA4	451
41	487	1.2	34.4	6490	F312_34.4 S3 M3LA4	442	F312_34.4 P100 BN100LA4	443
47	425	0.9	30.0	3300	F252_30.0 S3 M3LA4	438	F252_30.0 P100 BN100LA4	439
47	427	1.4	30.1	6360	F312_30.1 S3 M3LA4	442	F312_30.1 P100 BN100LA4	443
47	427	2.6	30.1	8500	F412_30.1 S3 M3LA4	446	F412_30.1 P100 BN100LA4	447
52	385	1.0	27.2	3300	F252_27.2 S3 M3LA4	438	F252_27.2 P100 BN100LA4	439
52	386	1.6	27.3	6250	F312_27.3 S3 M3LA4	442	F312_27.3 P100 BN100LA4	443
58	342	3.2	24.1	8400	F412_24.1 S3 M3LA4	446	F412_24.1 P100 BN100LA4	447

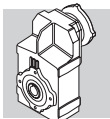


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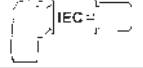
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
59	336	1.2	23.8	3290	F252_23.8 S3 M3LA4	438	F252_23.8 P100 BN100LA4	439
60	331	1.8	23.4	6080	F312_23.4 S3 M3LA4	442	F312_23.4 P100 BN100LA4	443
65	309	1.3	21.8	3270	F252_21.8 S3 M3LA4	438	F252_21.8 P100 BN100LA4	439
67	299	2.0	21.1	5960	F312_21.1 S3 M3LA4	442	F312_21.1 P100 BN100LA4	443
76	264	1.5	18.6	3220	F252_18.6 S3 M3LA4	438	F252_18.6 P100 BN100LA4	439
76	262	2.3	18.5	5790	F312_18.5 S3 M3LA4	442	F312_18.5 P100 BN100LA4	443
84	238	2.5	16.8	5670	F312_16.8 S3 M3LA4	442	F312_16.8 P100 BN100LA4	443
85	235	1.7	16.6	3180	F252_16.6 S3 M3LA4	438	F252_16.6 P100 BN100LA4	439
95	210	1.0	14.8	2190	F202_14.8 S3 M3LA4	434	F202_14.8 P100 BN100LA4	435
97	205	2.0	14.5	3120	F252_14.5 S3 M3LA4	438	F252_14.5 P100 BN100LA4	439
101	198	3.0	13.9	5430	F312_13.9 S3 M3LA4	442	F312_13.9 P100 BN100LA4	443
109	184	2.2	13.0	3070	F252_13.0 S3 M3LA4	438	F252_13.0 P100 BN100LA4	439
111	180	3.3	12.7	5310	F312_12.7 S3 M3LA4	442	F312_12.7 P100 BN100LA4	443
126	159	1.1	11.2	2060	F202_11.2 S3 M3LA4	434	F202_11.2 P100 BN100LA4	435
133	150	2.6	10.6	2960	F252_10.6 S3 M3LA4	438	F252_10.6 P100 BN100LA4	439
151	133	2.0	9.4	2900	F252_9.4 S3 M3LA4	438	F252_9.4 P100 BN100LA4	439
156	128	3.1	9.0	4830	F312_9.0 S3 M3LA4	442	F312_9.0 P100 BN100LA4	443
161	124	1.3	8.7	1960	F202_8.7 S3 M3LA4	434	F202_8.7 P100 BN100LA4	435
168	119	2.2	8.4	2830	F252_8.4 S3 M3LA4	438	F252_8.4 P100 BN100LA4	439
171	117	3.3	8.2	4720	F312_8.2 S3 M3LA4	442	F312_8.2 P100 BN100LA4	443
180	111	1.3	7.8	1920	F202_7.8 S3 M3LA4	434	F202_7.8 P100 BN100LA4	435
205	97	2.6	6.9	2710	F252_6.9 S3 M3LA4	438	F252_6.9 P100 BN100LA4	439
220	91	1.4	6.4	1840	F202_6.4 S3 M3LA4	434	F202_6.4 P100 BN100LA4	435
247	81	1.0	11.5	1470	F102_11.5 S3 M3SA2	430	F102_11.5 P90 BN90L2	431
254	79	1.8	11.2	1780	F202_11.2 S3 M3SA2	434	F202_11.2 P90 BN90L2	435
292	68	1.1	9.8	1410	F102_9.8 S3 M3SA2	430	F102_9.8 P90 BN90L2	431
326	61	2.0	8.7	1670	F202_8.7 S3 M3SA2	434	F202_8.7 P90 BN90L2	435
332	60	1.1	8.6	1370	F102_8.6 S3 M3SA2	430	F102_8.6 P90 BN90L2	431
364	55	2.1	7.8	1630	F202_7.8 S3 M3SA2	434	F202_7.8 P90 BN90L2	435
385	52	1.2	7.4	1330	F102_7.4 S3 M3SA2	430	F102_7.4 P90 BN90L2	431
444	45	2.3	6.4	1540	F202_6.4 S3 M3SA2	434	F202_6.4 P90 BN90L2	435

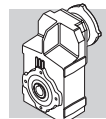
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
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2.3	11574	1.2	625.6	55000	F904_625.6 S3 M3LB4	464	F904_625.6 P100 BN100LB4	465
2.4	10684	1.3	577.5	55000	F904_577.5 S3 M3LB4	464	F904_577.5 P100 BN100LB4	465
2.8	9168	1.5	495.6	55000	F904_495.6 S3 M3LB4	464	F904_495.6 P100 BN100LB4	465
2.9	9049	0.9	489.1	45000	F804_489.1 S3 M3LB4	461	F804_489.1 P100 BN100LB4	462
3.1	8353	1.0	451.5	45000	F804_451.5 S3 M3LB4	461	F804_451.5 P100 BN100LB4	462
3.1	8463	1.7	457.5	55000	F904_457.5 S3 M3LB4	464	F904_457.5 P100 BN100LB4	465
3.7	7088	1.1	383.2	45000	F804_383.2 S3 M3LB4	461	F804_383.2 P100 BN100LB4	462
3.9	6694	2.1	361.8	55000	F904_361.8 S3 M3LB4	464	F904_361.8 P100 BN100LB4	465
4.0	6543	1.2	353.7	45000	F804_353.7 S3 M3LB4	461	F804_353.7 P100 BN100LB4	462
4.6	5630	0.9	304.3	35000	F704_304.3 S3 M3LB4	458	F704_304.3 P100 BN100LB4	459
4.8	5489	1.5	296.7	45000	F804_296.7 S3 M3LB4	461	F804_296.7 P100 BN100LB4	462
4.8	5386	2.6	291.1	55000	F904_291.1 S3 M3LB4	464	F904_291.1 P100 BN100LB4	465

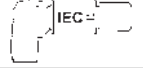


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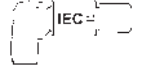
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
5.0	5197	1.0	280.9	35000	F704_280.9 S3 M3LB4	458	F704_280.9 P100 BN100LB4	459
5.1	5067	1.6	273.9	45000	F804_273.9 S3 M3LB4	461	F804_273.9 P100 BN100LB4	462
5.2	4971	2.8	268.7	55000	F904_268.7 S3 M3LB4	464	F904_268.7 P100 BN100LB4	465
6.0	4340	1.2	234.6	35000	F704_234.6 S3 M3LB4	458	F704_234.6 P100 BN100LB4	459
6.1	4281	3.3	231.4	55000	F904_231.4 S3 M3LB4	464	F904_231.4 P100 BN100LB4	465
6.5	4006	1.2	216.5	35000	F704_216.5 S3 M3LB4	458	F704_216.5 P100 BN100LB4	459
6.5	4042	2.0	218.5	45000	F804_218.5 S3 M3LB4	461	F804_218.5 P100 BN100LB4	462
6.6	3951	3.5	213.6	55000	F904_213.6 S3 M3LB4	464	F904_213.6 P100 BN100LB4	465
7.2	3706	1.3	196.0	35000	F703_196.0 S3 M3LB4	458	F703_196.0 P100 BN100LB4	459
7.6	3490	2.3	184.6	45000	F803_184.6 S3 M3LB4	461	F803_184.6 P100 BN100LB4	462
7.8	3421	1.5	180.9	35000	F703_180.9 S3 M3LB4	458	F703_180.9 P100 BN100LB4	459
8.5	3151	1.6	166.7	35000	F703_166.7 S3 M3LB4	458	F703_166.7 P100 BN100LB4	459
8.7	3080	0.9	162.9	20000	F603_162.9 S3 M3LB4	454	F603_162.9 P100 BN100LB4	455
8.8	3029	2.6	160.2	45000	F803_160.2 S3 M3LB4	461	F803_160.2 P100 BN100LB4	462
9.2	2909	1.7	153.8	35000	F703_153.8 S3 M3LB4	458	F703_153.8 P100 BN100LB4	459
9.4	2843	1.0	150.4	20000	F603_150.4 S3 M3LB4	454	F603_150.4 P100 BN100LB4	455
9.5	2796	2.9	147.9	45000	F803_147.9 S3 M3LB4	461	F803_147.9 P100 BN100LB4	462
10.6	2514	2.0	133.0	35000	F703_133.0 S3 M3LB4	458	F703_133.0 P100 BN100LB4	459
10.6	2509	3.2	132.7	45000	F803_132.7 S3 M3LB4	461	F803_132.7 P100 BN100LB4	462
10.8	2467	1.2	130.5	20000	F603_130.5 S3 M3LB4	454	F603_130.5 P100 BN100LB4	455
11.5	2320	2.2	122.7	35000	F703_122.7 S3 M3LB4	458	F703_122.7 P100 BN100LB4	459
11.5	2316	3.5	122.5	45000	F803_122.5 S3 M3LB4	461	F803_122.5 P100 BN100LB4	462
11.7	2277	1.3	120.5	20000	F603_120.5 S3 M3LB4	454	F603_120.5 P100 BN100LB4	455
12.9	2072	2.4	109.6	35000	F703_109.6 S3 M3LB4	458	F703_109.6 P100 BN100LB4	459
13.3	2011	1.4	106.4	20000	F603_106.4 S3 M3LB4	454	F603_106.4 P100 BN100LB4	455
13.4	1987	0.9	105.1	12000	F513_105.1 S3 M3LB4	450	F513_105.1 P100 BN100LB4	451
13.9	1913	2.6	101.2	35000	F703_101.2 S3 M3LB4	458	F703_101.2 P100 BN100LB4	459
14.4	1857	1.6	98.2	20000	F603_98.2 S3 M3LB4	454	F603_98.2 P100 BN100LB4	455
15.2	1749	2.9	92.5	35000	F703_92.5 S3 M3LB4	458	F703_92.5 P100 BN100LB4	459
16.5	1614	3.1	85.4	35000	F703_85.4 S3 M3LB4	458	F703_85.4 P100 BN100LB4	459
16.8	1588	1.8	84.0	20000	F603_84.0 S3 M3LB4	454	F603_84.0 P100 BN100LB4	455
16.9	1574	1.1	83.2	12000	F513_83.2 S3 M3LB4	450	F513_83.2 P100 BN100LB4	451
18.2	1466	2.0	77.6	20000	F603_77.6 S3 M3LB4	454	F603_77.6 P100 BN100LB4	455
20.7	1291	2.2	68.3	20000	F603_68.3 S3 M3LB4	454	F603_68.3 P100 BN100LB4	455
21.4	1245	1.4	65.8	12000	F513_65.8 S3 M3LB4	450	F513_65.8 P100 BN100LB4	451
22.4	1192	2.4	63.0	20000	F603_63.0 S3 M3LB4	454	F603_63.0 P100 BN100LB4	455
23.4	1139	1.0	60.2	8500	F413_60.2 S3 M3LB4	446	F413_60.2 P100 BN100LB4	447
27.2	980	3.0	51.8	20000	F603_51.8 S3 M3LB4	454	F603_51.8 P100 BN100LB4	455
27.4	974	1.1	51.5	8500	F413_51.5 S3 M3LB4	446	F413_51.5 P100 BN100LB4	447
28.8	925	1.9	48.9	12000	F513_48.9 S3 M3LB4	450	F513_48.9 P100 BN100LB4	451
29.4	926	1.2	47.9	8500	F412_47.9 S3 M3LB4	446	F412_47.9 P100 BN100LB4	447
29.5	905	3.2	47.8	20000	F603_47.8 S3 M3LB4	454	F603_47.8 P100 BN100LB4	455
37	737	1.5	38.2	8500	F412_38.2 S3 M3LB4	446	F412_38.2 P100 BN100LB4	447
38	717	2.4	37.1	11800	F512_37.1 S3 M3LB4	450	F512_37.1 P100 BN100LB4	451
41	664	0.9	34.4	5810	F312_34.4 S3 M3LB4	442	F312_34.4 P100 BN100LB4	443
47	582	1.0	30.1	5770	F312_30.1 S3 M3LB4	442	F312_30.1 P100 BN100LB4	443
47	582	1.9	30.1	8290	F412_30.1 S3 M3LB4	446	F412_30.1 P100 BN100LB4	447
47	580	2.9	30.0	11200	F512_30.0 S3 M3LB4	450	F512_30.0 P100 BN100LB4	451
52	527	1.1	27.3	5720	F312_27.3 S3 M3LB4	442	F312_27.3 P100 BN100LB4	443
58	466	2.4	24.1	7960	F412_24.1 S3 M3LB4	446	F412_24.1 P100 BN100LB4	447
60	452	1.3	23.4	5620	F312_23.4 S3 M3LB4	442	F312_23.4 P100 BN100LB4	443

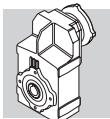


3.0 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
65	421	0.9	21.8	2800	F252_21.8 S3 M3LB4	438	F252_21.8 P100 BN100LB4	439
67	408	1.5	21.1	5540	F312_21.1 S3 M3LB4	442	F312_21.1 P100 BN100LB4	443
75	365	3.0	18.9	7560	F412_18.9 S3 M3LB4	446	F412_18.9 P100 BN100LB4	447
76	359	1.1	18.6	2830	F252_18.6 S3 M3LB4	438	F252_18.6 P100 BN100LB4	439
76	357	1.7	18.5	5430	F312_18.5 S3 M3LB4	442	F312_18.5 P100 BN100LB4	443
82	331	3.2	17.1	7400	F412_17.1 S3 M3LB4	446	F412_17.1 P100 BN100LB4	447
84	324	1.8	16.8	5340	F312_16.8 S3 M3LB4	442	F312_16.8 P100 BN100LB4	443
85	321	1.2	16.6	2830	F252_16.6 S3 M3LB4	438	F252_16.6 P100 BN100LB4	439
97	279	1.4	14.5	2810	F252_14.5 S3 M3LB4	438	F252_14.5 P100 BN100LB4	439
101	269	2.2	13.9	5150	F312_13.9 S3 M3LB4	442	F312_13.9 P100 BN100LB4	443
109	251	1.6	13	2790	F252_13.0 S3 M3LB4	438	F252_13.0 P100 BN100LB4	439
111	246	2.4	12.7	5060	F312_12.7 S3 M3LB4	442	F312_12.7 P100 BN100LB4	443
131	208	2.9	10.7	4880	F312_10.7 S3 M3LB4	442	F312_10.7 P100 BN100LB4	443
133	205	1.9	10.6	2730	F252_10.6 S3 M3LB4	438	F252_10.6 P100 BN100LB4	439
151	181	1.5	9.4	2710	F252_9.4 S3 M3LB4	438	F252_9.4 P100 BN100LB4	439
156	174	2.2	9.0	4650	F312_9.0 S3 M3LB4	442	F312_9.0 P100 BN100LB4	443
161	169	0.9	8.7	1820	F202_8.7 S3 M3LB4	434	F202_8.7 P100 BN100LB4	435
168	162	1.6	8.4	2660	F252_8.4 S3 M3LB4	438	F252_8.4 P100 BN100LB4	439
171	159	2.5	8.2	4550	F312_8.2 S3 M3LB4	442	F312_8.2 P100 BN100LB4	443
180	151	1.0	7.8	1790	F202_7.8 S3 M3LB4	434	F202_7.8 P100 BN100LB4	435
203	134	2.9	6.9	4360	F312_6.9 S3 M3LB4	442	F312_6.9 P100 BN100LB4	443
205	133	1.9	6.9	2560	F252_6.9 S3 M3LB4	438	F252_6.9 P100 BN100LB4	439
220	124	1.0	6.4	1730	F202_6.4 S3 M3LB4	434	F202_6.4 P100 BN100LB4	435
220	124	2.9	13.0	2510	F252_13.0 S3 M3LA2	438	F252_13.0 P100 BN100L2	439
255	107	1.3	11.2	1680	F202_11.2 S3 M3LA2	434	F202_11.2 P100 BN100L2	435
269	101	3.2	10.6	2410	F252_10.6 S3 M3LA2	438	F252_10.6 P100 BN100L2	439
306	89	3.0	9.4	2350	F252_9.4 S3 M3LA2	438	F252_9.4 P100 BN100L2	439
328	83	1.5	8.7	1600	F202_8.7 S3 M3LA2	434	F202_8.7 P100 BN100L2	435
341	80	3.3	8.4	2290	F252_8.4 S3 M3LA2	438	F252_8.4 P100 BN100L2	439
365	75	1.5	7.8	1560	F202_7.8 S3 M3LA2	434	F202_7.8 P100 BN100L2	435
446	61	1.7	6.4	1480	F202_6.4 S3 M3LA2	434	F202_6.4 P100 BN100L2	435

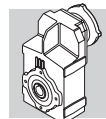
4.0 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
2.2	15542	0.9	625.6	55000	F904_625.6 S3 M3LC4	464	F904_625.6 P112 BN112M4	465
2.4	14347	1.0	577.5	55000	F904_577.5 S3 M3LC4	464	F904_577.5 P112 BN112M4	465
2.8	12311	1.1	495.6	55000	F904_495.6 S3 M3LC4	464	F904_495.6 P112 BN112M4	465
3.1	11364	1.2	457.5	55000	F904_457.5 S3 M3LC4	464	F904_457.5 P112 BN112M4	465
3.9	8989	1.6	361.8	55000	F904_361.8 S3 M3LC4	464	F904_361.8 P112 BN112M4	465
4.0	8786	0.9	353.7	45000	F804_353.7 S3 M3LC4	461	F804_353.7 P112 BN112M4	462
4.7	7371	1.1	296.7	45000	F804_296.7 S3 M3LC4	461	F804_296.7 P112 BN112M4	462
4.8	7232	1.9	291.1	55000	F904_291.1 S3 M3LC4	464	F904_291.1 P112 BN112M4	465
5.1	6804	1.2	273.9	45000	F804_273.9 S3 M3LC4	461	F804_273.9 P112 BN112M4	462
5.2	6676	2.1	268.7	55000	F904_268.7 S3 M3LC4	464	F904_268.7 P112 BN112M4	465
6.0	5827	0.9	234.6	35000	F704_234.6 S3 M3LC4	458	F704_234.6 P112 BN112M4	459
6.1	5748	2.4	231.4	55000	F904_231.4 S3 M3LC4	464	F904_231.4 P112 BN112M4	465
6.4	5428	1.5	218.5	45000	F804_218.5 S3 M3LC4	461	F804_218.5 P112 BN112M4	462

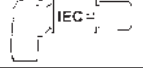


4.0 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
6.5	5379	0.9	216.5	35000	F704_216.5 S3 M3LC4	458	F704_216.5 P112 BN112M4	459
6.6	5306	2.6	213.6	55000	F904_213.6 S3 M3LC4	464	F904_213.6 P112 BN112M4	465
7.1	4977	1.0	196.0	35000	F703_196.0 S3 M3LC4	458	F703_196.0 P112 BN112M4	459
7.2	4929	2.8	194.2	55000	F903_194.2 S3 M3LC4	464	F903_194.2 P112 BN112M4	465
7.6	4687	1.7	184.6	45000	F803_184.6 S3 M3LC4	461	F803_184.6 P112 BN112M4	462
7.7	4594	1.1	180.9	35000	F703_180.9 S3 M3LC4	458	F703_180.9 P112 BN112M4	459
7.8	4550	3.1	179.2	55000	F903_179.2 S3 M3LC4	464	F903_179.2 P112 BN112M4	465
8.4	4232	1.2	166.7	35000	F703_166.7 S3 M3LC4	458	F703_166.7 P112 BN112M4	459
8.6	4134	3.4	162.8	55000	F903_162.8 S3 M3LC4	464	F903_162.8 P112 BN112M4	465
8.7	4068	2.0	160.2	45000	F803_160.2 S3 M3LC4	461	F803_160.2 P112 BN112M4	462
9.1	3906	1.3	153.8	35000	F703_153.8 S3 M3LC4	458	F703_153.8 P112 BN112M4	459
9.5	3755	2.1	147.9	45000	F803_147.9 S3 M3LC4	461	F803_147.9 P112 BN112M4	462
10.5	3376	1.5	133.0	35000	F703_133.0 S3 M3LC4	458	F703_133.0 P112 BN112M4	459
10.6	3369	2.4	132.7	45000	F803_132.7 S3 M3LC4	461	F803_132.7 P112 BN112M4	462
11.4	3116	1.6	122.7	35000	F703_122.7 S3 M3LC4	458	F703_122.7 P112 BN112M4	459
11.4	3110	2.6	122.5	45000	F803_122.5 S3 M3LC4	461	F803_122.5 P112 BN112M4	462
11.6	3058	0.9	120.5	20000	F603_120.5 S3 M3LC4	454	F603_120.5 P112 BN112M4	455
12.3	2888	2.8	113.8	45000	F803_113.8 S3 M3LC4	461	F803_113.8 P112 BN112M4	462
12.8	2783	1.8	109.6	35000	F703_109.6 S3 M3LC4	458	F703_109.6 P112 BN112M4	459
13.2	2701	1.1	106.4	20000	F603_106.4 S3 M3LC4	454	F603_106.4 P112 BN112M4	455
13.8	2569	1.9	101.2	35000	F703_101.2 S3 M3LC4	458	F703_101.2 P112 BN112M4	459
14.3	2493	1.2	98.2	20000	F603_98.2 S3 M3LC4	454	F603_98.2 P112 BN112M4	455
15.1	2348	2.1	92.5	35000	F703_92.5 S3 M3LC4	458	F703_92.5 P112 BN112M4	459
16.4	2168	2.3	85.4	35000	F703_85.4 S3 M3LC4	458	F703_85.4 P112 BN112M4	459
16.7	2133	1.4	84.0	20000	F603_84.0 S3 M3LC4	454	F603_84.0 P112 BN112M4	455
18.1	1969	1.5	77.6	20000	F603_77.6 S3 M3LC4	454	F603_77.6 P112 BN112M4	455
20.5	1734	1.7	68.3	20000	F603_68.3 S3 M3LC4	454	F603_68.3 P112 BN112M4	455
21.3	1672	1.1	65.8	12000	F513_65.8 S3 M3LC4	450	F513_65.8 P112 BN112M4	451
22.2	1600	1.8	63.0	20000	F603_63.0 S3 M3LC4	454	F603_63.0 P112 BN112M4	455
27.0	1316	2.2	51.8	20000	F603_51.8 S3 M3LC4	454	F603_51.8 P112 BN112M4	455
28.6	1242	1.4	48.9	11600	F513_48.9 S3 M3LC4	450	F513_48.9 P112 BN112M4	451
29.3	1215	2.4	47.8	20000	F603_47.8 S3 M3LC4	454	F603_47.8 P112 BN112M4	455
33	1069	2.7	42.1	20000	F603_42.1 S3 M3LC4	454	F603_42.1 P112 BN112M4	455
36	986	2.9	38.8	20000	F603_38.8 S3 M3LC4	454	F603_38.8 P112 BN112M4	455
37	990	1.1	38.2	7720	F412_38.2 S3 M3LC4	446	F412_38.2 P112 BN112M4	447
38	963	1.8	37.1	11200	F512_37.1 S3 M3LC4	450	F512_37.1 P112 BN112M4	451
46	781	1.4	30.1	7610	F412_30.1 S3 M3LC4	446	F412_30.1 P112 BN112M4	447
47	779	2.2	30.0	10700	F512_30.0 S3 M3LC4	450	F512_30.0 P112 BN112M4	451
55	645	2.9	25.4	20000	F603_25.4 S3 M3LC4	454	F603_25.4 P112 BN112M4	455
58	625	1.8	24.1	7420	F412_24.1 S3 M3LC4	446	F412_24.1 P112 BN112M4	447
59	617	2.7	23.8	10200	F512_23.8 S3 M3LC4	450	F512_23.8 P112 BN112M4	451
60	607	1.0	23.4	5040	F312_23.4 S3 M3LC4	442	F312_23.4 P112 BN112M4	443
60	596	3.2	23.5	20000	F603_23.5 S3 M3LC4	454	F603_23.5 P112 BN112M4	455
66	548	1.1	21.1	5020	F312_21.1 S3 M3LC4	442	F312_21.1 P112 BN112M4	443
74	490	2.2	18.9	7150	F412_18.9 S3 M3LC4	446	F412_18.9 P112 BN112M4	447
74	488	3.2	18.8	9640	F512_18.8 S3 M3LC4	450	F512_18.8 P112 BN112M4	451
76	479	1.3	18.5	4980	F312_18.5 S3 M3LC4	442	F312_18.5 P112 BN112M4	443
82	444	2.4	17.1	7030	F412_17.1 S3 M3LC4	446	F412_17.1 P112 BN112M4	447
83	436	1.4	16.8	4930	F312_16.8 S3 M3LC4	442	F312_16.8 P112 BN112M4	443
84	431	0.9	16.6	2380	F252_16.6 S3 M3LC4	438	F252_16.6 P112 BN112M4	439
96	379	2.7	14.6	6820	F412_14.6 S3 M3LC4	446	F412_14.6 P112 BN112M4	447

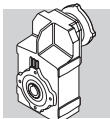


4.0 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N				
97	375	1.1	14.5	2420	F252_14.5 S3 M3LC4	438	F252_14.5 P112 BN112M4	439
100	362	1.7	13.9	4820	F312_13.9 S3 M3LC4	442	F312_13.9 P112 BN112M4	443
108	337	1.2	13.0	2440	F252_13.0 S3 M3LC4	438	F252_13.0 P112 BN112M4	439
110	330	1.8	12.7	4750	F312_12.7 S3 M3LC4	442	F312_12.7 P112 BN112M4	443
130	279	2.2	10.7	4620	F312_10.7 S3 M3LC4	442	F312_10.7 P112 BN112M4	443
130	279	3.2	10.8	6380	F412_10.8 S3 M3LC4	446	F412_10.8 P112 BN112M4	447
132	276	1.4	10.6	2450	F252_10.6 S3 M3LC4	438	F252_10.6 P112 BN112M4	439
150	243	1.1	9.4	2470	F252_9.4 S3 M3LC4	438	F252_9.4 P112 BN112M4	439
153	237	3.0	9.1	6160	F412_9.1 S3 M3LC4	446	F412_9.1 P112 BN112M4	447
155	234	1.7	9.0	4420	F312_9.0 S3 M3LC4	442	F312_9.0 P112 BN112M4	443
167	218	1.2	8.4	2450	F252_8.4 S3 M3LC4	438	F252_8.4 P112 BN112M4	439
170	213	1.8	8.2	4350	F312_8.2 S3 M3LC4	442	F312_8.2 P112 BN112M4	443
201	180	2.2	6.9	4200	F312_6.9 S3 M3LC4	442	F312_6.9 P112 BN112M4	443
204	178	1.4	6.9	2390	F252_6.9 S3 M3LC4	438	F252_6.9 P112 BN112M4	439
206	176	3.2	13.9	4200	F312_13.9 S3 M3LB2	442	F312_13.9 P100 BN100LB2	443
221	164	2.2	13.0	2340	F252_13.0 S3 M3LB2	438	F252_13.0 P112 BN112M2	439
226	161	3.4	12.7	4120	F312_12.7 S3 M3LB2	442	F312_12.7 P100 BN100LB2	443
255	142	1.0	11.2	1570	F202_11.2 S3 M3LB2	434	F202_11.2 P100 BN100LB2	435
270	134	2.4	10.6	2270	F252_10.6 S3 M3LB2	438	F252_10.6 P112 BN112M2	439
307	118	2.2	9.4	2230	F252_9.4 S3 M3LB2	438	F252_9.4 P112 BN112M2	439
318	114	3.4	9.0	3760	F312_9.0 S3 M3LB2	442	F312_9.0 P100 BN100LB2	443
329	110	1.1	8.7	1510	F202_8.7 S3 M3LB2	434	F202_8.7 P100 BN100LB2	435
342	106	2.4	8.4	2190	F252_8.4 S3 M3LB2	438	F252_8.4 P112 BN112M2	439
366	99	1.2	7.8	1480	F202_7.8 S3 M3LB2	434	F202_7.8 P100 BN100LB2	435
418	87	2.7	6.9	2090	F252_6.9 S3 M3LB2	438	F252_6.9 P112 BN112M2	439
448	81	1.3	6.4	1420	F202_6.4 S3 M3LB2	434	F202_6.4 P100 BN100LB2	435

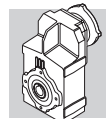
5.5 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N				
2.9	16458	0.9	495.6	55000	F904_495.6 S4 M4SA4	464	F904_495.6 P132 BN132S4	465
3.1	15192	0.9	457.5	55000	F904_457.5 S4 M4SA4	464	F904_457.5 P132 BN132S4	465
4.0	12017	1.2	361.8	55000	F904_361.8 S4 M4SA4	464	F904_361.8 P132 BN132S4	465
4.9	9668	1.4	291.1	55000	F904_291.1 S4 M4SA4	464	F904_291.1 P132 BN132S4	465
5.3	9096	0.9	273.9	45000	F804_273.9 S4 M4SA4	461	F804_273.9 P132 BN132S4	462
5.4	8925	1.6	268.7	55000	F904_268.7 S4 M4SA4	464	F904_268.7 P132 BN132S4	465
6.2	7685	1.8	231.4	55000	F904_231.4 S4 M4SA4	464	F904_231.4 P132 BN132S4	465
6.6	7256	1.1	218.5	45000	F804_218.5 S4 M4SA4	461	F804_218.5 P132 BN132S4	462
6.7	7093	2	213.6	55000	F904_213.6 S4 M4SA4	464	F904_213.6 P132 BN132S4	465
7.4	6590	2.1	194.2	55000	F903_194.2 S4 M4SA4	464	F903_194.2 P132 BN132S4	465
7.8	6266	1.3	184.6	45000	F803_184.6 S4 M4SA4	461	F803_184.6 P132 BN132S4	462
8.0	6083	2.3	179.2	55000	F903_179.2 S4 M4SA4	464	F903_179.2 P132 BN132S4	465
8.8	5527	2.5	162.8	55000	F903_162.8 S4 M4SA4	464	F903_162.8 P132 BN132S4	465
9.0	5438	1.5	160.2	45000	F803_160.2 S4 M4SA4	461	F803_160.2 P132 BN132S4	462
9.4	5222	1.0	153.8	35000	F703_153.8 S4 M4SA4	458	F703_153.8 P132 BN132S4	459
9.6	5101	2.7	150.3	55000	F903_150.3 S4 M4SA4	464	F903_150.3 P132 BN132S4	465
9.7	5020	1.6	147.9	45000	F803_147.9 S4 M4SA4	461	F803_147.9 P132 BN132S4	462
10.5	4661	3.0	137.3	55000	F903_137.3 S4 M4SA4	464	F903_137.3 P132 BN132S4	465

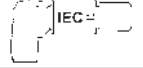


5.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
10.8	4513	1.1	133	35000	F703_133.0 S4 M4SA4	458	F703_133.0 P132 BN132S4	459
10.9	4504	1.8	132.7	45000	F803_132.7 S4 M4SA4	461	F803_132.7 P132 BN132S4	462
11.4	4303	3.3	126.8	55000	F903_126.8 S4 M4SA4	464	F903_126.8 P132 BN132S4	465
11.7	4165	1.2	122.7	35000	F703_122.7 S4 M4SA4	458	F703_122.7 P132 BN132S4	459
11.8	4157	1.9	122.5	45000	F803_122.5 S4 M4SA4	461	F803_122.5 P132 BN132S4	462
12.7	3861	2.1	113.8	45000	F803_113.8 S4 M4SA4	461	F803_113.8 P132 BN132S4	462
13.1	3720	1.3	109.6	35000	F703_109.6 S4 M4SA4	458	F703_109.6 P132 BN132S4	459
14.2	3434	1.5	101.2	35000	F703_101.2 S4 M4SA4	458	F703_101.2 P132 BN132S4	459
15.6	3139	1.6	92.5	35000	F703_92.5 S4 M4SA4	458	F703_92.5 P132 BN132S4	459
15.6	3133	2.6	92.3	45000	F803_92.3 S4 M4SA4	461	F803_92.3 P132 BN132S4	462
16.9	2898	1.7	85.4	35000	F703_85.4 S4 M4SA4	458	F703_85.4 P132 BN132S4	459
16.9	2892	2.8	85.2	45000	F803_85.2 S4 M4SA4	461	F803_85.2 P132 BN132S4	462
17.1	2852	1.0	84	20000	F603_84.0 S4 M4SA4	454	F603_84.0 P132 BN132S4	455
18.6	2632	1.1	77.6	20000	F603_77.6 S4 M4SA4	454	F603_77.6 P132 BN132S4	455
18.9	2588	3.1	76.3	45000	F803_76.3 S4 M4SA4	461	F803_76.3 P132 BN132S4	462
19.6	2497	2.0	73.6	35000	F703_73.6 S4 M4SA4	458	F703_73.6 P132 BN132S4	459
20.5	2389	3.3	70.4	45000	F803_70.4 S4 M4SA4	461	F803_70.4 P132 BN132S4	462
21.1	2317	1.3	68.3	20000	F603_68.3 S4 M4SA4	454	F603_68.3 P132 BN132S4	455
21.2	2305	2.2	67.9	35000	F703_67.9 S4 M4SA4	458	F703_67.9 P132 BN132S4	459
22.8	2139	1.4	63	20000	F603_63.0 S4 M4SA4	454	F603_63.0 P132 BN132S4	455
23.0	2121	2.4	62.5	35000	F703_62.5 S4 M4SA4	458	F703_62.5 P132 BN132S4	459
25.0	1958	2.6	57.7	35000	F703_57.7 S4 M4SA4	458	F703_57.7 P132 BN132S4	459
27.8	1759	1.6	51.8	20000	F603_51.8 S4 M4SA4	454	F603_51.8 P132 BN132S4	455
29.4	1660	1.1	48.9	10300	F513_48.9 S4 M4SA4	450	F513_48.9 P132 BN132S4	451
29.4	1662	3	49.0	35000	F703_49.0 S4 M4SA4	458	F703_49.0 P132 BN132S4	459
30.0	1624	1.8	47.8	20000	F603_47.8 S4 M4SA4	454	F603_47.8 P132 BN132S4	455
32	1534	3.3	45.2	34300	F703_45.2 S4 M4SA4	458	F703_45.2 P132 BN132S4	459
34	1428	2.0	42.1	20000	F603_42.1 S4 M4SA4	454	F603_42.1 P132 BN132S4	455
37	1319	2.2	38.8	20000	F603_38.8 S4 M4SA4	454	F603_38.8 P132 BN132S4	455
39	1288	1.3	37.1	10300	F512_37.1 S4 M4SA4	450	F512_37.1 P132 BN132S4	451
45	1089	2.7	32.1	20000	F603_32.1 S4 M4SA4	454	F603_32.1 P132 BN132S4	455
48	1044	1.1	30.1	6580	F412_30.1 S4 M4SA4	446	F412_30.1 P132 BN132S4	447
48	1041	1.6	30	9950	F512_30.0 S4 M4SA4	450	F512_30.0 P132 BN132S4	451
49	1005	2.9	29.6	20000	F603_29.6 S4 M4SA4	454	F603_29.6 P132 BN132S4	455
57	863	2.2	25.4	20000	F603_25.4 S4 M4SA4	454	F603_25.4 P132 BN132S4	455
60	836	1.3	24.1	6580	F412_24.1 S4 M4SA4	446	F412_24.1 P132 BN132S4	447
61	825	2.0	23.8	9560	F512_23.8 S4 M4SA4	450	F512_23.8 P132 BN132S4	451
61	796	2.4	23.5	20000	F603_23.5 S4 M4SA4	454	F603_23.5 P132 BN132S4	455
70	701	2.7	20.7	20000	F603_20.7 S4 M4SA4	454	F603_20.7 P132 BN132S4	455
76	655	1.7	18.9	6480	F412_18.9 S4 M4SA4	446	F412_18.9 P132 BN132S4	447
76	647	2.9	19.1	20000	F603_19.1 S4 M4SA4	454	F603_19.1 P132 BN132S4	455
77	653	2.4	18.8	9110	F512_18.8 S4 M4SA4	450	F512_18.8 P132 BN132S4	451
84	593	1.8	17.1	6410	F412_17.1 S4 M4SA4	446	F412_17.1 P132 BN132S4	447
98	507	2.0	14.6	6280	F412_14.6 S4 M4SA4	446	F412_14.6 P132 BN132S4	447
103	485	2.9	14.0	8520	F512_14.0 S4 M4SA4	450	F512_14.0 P132 BN132S4	451
130	385	3.5	11.1	8050	F512_11.1 S4 M4SA4	450	F512_11.1 P132 BN132S4	451
134	373	2.4	10.8	5970	F412_10.8 S4 M4SA4	446	F412_10.8 P132 BN132S4	447
158	317	2.2	9.1	5810	F412_9.1 S4 M4SA4	446	F412_9.1 P132 BN132S4	447
159	314	3.5	9.1	7590	F512_9.1 S4 M4SA4	450	F512_9.1 P132 BN132S4	451
198	253	3.3	14.6	5510	F412_14.6 S4 M4SA2	446	F412_14.6 P132 BN132SA2	447
214	233	2.7	6.7	5430	F412_6.7 S4 M4SA4	446	F412_6.7 P132 BN132S4	447

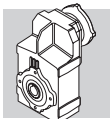


5.5 kW

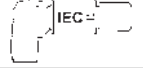
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
268	186	3.9	10.8	5120	F412_10.8 S4 M4SA2	446	F412_10.8 P132 BN132SA2	447
316	158	3.9	9.1	4930	F412_9.1 S4 M4SA2	446	F412_9.1 P132 BN132SA2	447

7.5 kW

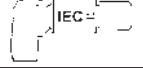
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
4.0	16387	0.9	361.8	55000	F904_361.8 S4 M4LA4	464	F904_361.8 P132 BN132MA4	465
4.9	13184	1.1	291.1	55000	F904_291.1 S4 M4LA4	464	F904_291.1 P132 BN132MA4	465
5.4	12170	1.2	268.7	55000	F904_268.7 S4 M4LA4	464	F904_268.7 P132 BN132MA4	465
6.2	10479	1.3	231.4	55000	F904_231.4 S4 M4LA4	464	F904_231.4 P132 BN132MA4	465
6.7	9673	1.4	213.6	55000	F904_213.6 S4 M4LA4	464	F904_213.6 P132 BN132MA4	465
7.4	8986	1.6	194.2	55000	F903_194.2 S4 M4LA4	464	F903_194.2 P132 BN132MA4	465
7.8	8544	0.9	184.6	45000	F803_184.6 S4 M4LA4	461	F803_184.6 P132 BN132MA4	462
8.0	8295	1.7	179.2	55000	F903_179.2 S4 M4LA4	464	F903_179.2 P132 BN132MA4	465
8.8	7536	1.9	162.8	55000	F903_162.8 S4 M4LA4	464	F903_162.8 P132 BN132MA4	465
9.0	7416	1.1	160.2	45000	F803_160.2 S4 M4LA4	461	F803_160.2 P132 BN132MA4	462
9.6	6956	2	150.3	55000	F903_150.3 S4 M4LA4	464	F903_150.3 P132 BN132MA4	465
9.7	6845	1.2	147.9	45000	F803_147.9 S4 M4LA4	461	F803_147.9 P132 BN132MA4	462
10.5	6356	2.2	137.3	55000	F903_137.3 S4 M4LA4	464	F903_137.3 P132 BN132MA4	465
10.9	6141	1.3	132.7	45000	F803_132.7 S4 M4LA4	461	F803_132.7 P132 BN132MA4	462
11.4	5867	2.4	126.8	55000	F903_126.8 S4 M4LA4	464	F903_126.8 P132 BN132MA4	465
11.8	5669	1.4	122.5	45000	F803_122.5 S4 M4LA4	461	F803_122.5 P132 BN132MA4	462
12.7	5265	1.5	113.8	45000	F803_113.8 S4 M4LA4	461	F803_113.8 P132 BN132MA4	462
12.9	5181	2.7	111.9	55000	F903_111.9 S4 M4LA4	464	F903_111.9 P132 BN132MA4	465
13.1	5073	1.0	109.6	35000	F703_109.6 S4 M4LA4	458	F703_109.6 P132 BN132MA4	459
13.9	4783	2.9	103.3	55000	F903_103.3 S4 M4LA4	464	F903_103.3 P132 BN132MA4	465
14.2	4683	1.1	101.2	35000	F703_101.2 S4 M4LA4	458	F703_101.2 P132 BN132MA4	459
15.0	4432	3.2	95.8	55000	F903_95.8 S4 M4LA4	464	F903_95.8 P132 BN132MA4	465
15.6	4281	1.2	92.5	35000	F703_92.5 S4 M4LA4	458	F703_92.5 P132 BN132MA4	459
15.6	4272	1.9	92.3	45000	F803_92.3 S4 M4LA4	461	F803_92.3 P132 BN132MA4	462
16.3	4091	3.4	88.4	55000	F903_88.4 S4 M4LA4	464	F903_88.4 P132 BN132MA4	465
16.9	3952	1.3	85.4	35000	F703_85.4 S4 M4LA4	458	F703_85.4 P132 BN132MA4	459
16.9	3944	2.0	85.2	45000	F803_85.2 S4 M4LA4	461	F803_85.2 P132 BN132MA4	462
18.9	3529	2.3	76.3	45000	F803_76.3 S4 M4LA4	461	F803_76.3 P132 BN132MA4	462
19.6	3404	1.5	73.6	35000	F703_73.6 S4 M4LA4	458	F703_73.6 P132 BN132MA4	459
20.5	3258	2.5	70.4	44700	F803_70.4 S4 M4LA4	461	F803_70.4 P132 BN132MA4	462
21.1	3160	0.9	68.3	20000	F603_68.3 S4 M4LA4	454	F603_68.3 P132 BN132MA4	455
21.2	3143	1.6	67.9	35000	F703_67.9 S4 M4LA4	458	F703_67.9 P132 BN132MA4	459
22.8	2917	1.0	63.0	20000	F603_63.0 S4 M4LA4	454	F603_63.0 P132 BN132MA4	455
23.0	2893	1.7	62.5	35000	F703_62.5 S4 M4LA4	458	F703_62.5 P132 BN132MA4	459
23.4	2844	2.8	61.5	43500	F803_61.5 S4 M4LA4	461	F803_61.5 P132 BN132MA4	462
25.0	2670	1.9	57.7	34900	F703_57.7 S4 M4LA4	458	F703_57.7 P132 BN132MA4	459
25.4	2626	3.0	56.7	42600	F803_56.7 S4 M4LA4	461	F803_56.7 P132 BN132MA4	462
27.8	2399	1.2	51.8	20000	F603_51.8 S4 M4LA4	454	F603_51.8 P132 BN132MA4	455
29.4	2266	2.2	49.0	33800	F703_49.0 S4 M4LA4	458	F703_49.0 P132 BN132MA4	459
30.0	2214	1.3	47.8	20000	F603_47.8 S4 M4LA4	454	F603_47.8 P132 BN132MA4	455
32	2092	2.4	45.2	33200	F703_45.2 S4 M4LA4	458	F703_45.2 P132 BN132MA4	459
34	1948	1.5	42.1	20000	F603_42.1 S4 M4LA4	454	F603_42.1 P132 BN132MA4	455

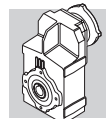


7.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
37	1798	1.6	38.8	20000	F603_38.8 S4 M4LA4	454	F603_38.8 P132 BN132MA4	455
39	1756	1.0	37.1	9090	F512_37.1 S4 M4LA4	450	F512_37.1 P132 BN132MA4	451
45	1485	2.0	32.1	20000	F603_32.1 S4 M4LA4	454	F603_32.1 P132 BN132MA4	455
48	1420	1.2	30.0	9010	F512_30.0 S4 M4LA4	450	F512_30.0 P132 BN132MA4	451
49	1371	2.1	29.6	20000	F603_29.6 S4 M4LA4	454	F603_29.6 P132 BN132MA4	455
57	1176	1.6	25.4	20000	F603_25.4 S4 M4LA4	454	F603_25.4 P132 BN132MA4	455
59	1137	3.5	24.6	28800	F703_24.6 S4 M4LA4	458	F703_24.6 P132 BN132MA4	459
60	1140	1.0	24.1	5500	F412_24.1 S4 M4LA4	446	F412_24.1 P132 BN132MA4	447
61	1125	1.5	23.8	8810	F512_23.8 S4 M4LA4	450	F512_23.8 P132 BN132MA4	451
61	1086	1.7	23.5	20000	F603_23.5 S4 M4LA4	454	F603_23.5 P132 BN132MA4	455
70	956	2.0	20.7	20000	F603_20.7 S4 M4LA4	454	F603_20.7 P132 BN132MA4	455
76	893	1.2	18.9	5630	F412_18.9 S4 M4LA4	446	F412_18.9 P132 BN132MA4	447
76	883	2.2	19.1	20000	F603_19.1 S4 M4LA4	454	F603_19.1 P132 BN132MA4	455
77	890	1.7	18.8	8520	F512_18.8 S4 M4LA4	450	F512_18.8 P132 BN132MA4	451
84	809	1.3	17.1	5650	F412_17.1 S4 M4LA4	446	F412_17.1 P132 BN132MA4	447
92	726	2.6	15.7	20000	F603_15.7 S4 M4LA4	454	F603_15.7 P132 BN132MA4	455
98	692	1.5	14.6	5630	F412_14.6 S4 M4LA4	446	F412_14.6 P132 BN132MA4	447
99	670	2.8	14.5	20000	F603_14.5 S4 M4LA4	454	F603_14.5 P132 BN132MA4	455
103	661	2.1	14.0	8080	F512_14.0 S4 M4LA4	450	F512_14.0 P132 BN132MA4	451
113	589	3.2	12.7	19900	F603_12.7 S4 M4LA4	454	F603_12.7 P132 BN132MA4	455
123	544	3.5	11.8	19500	F603_11.8 S4 M4LA4	454	F603_11.8 P132 BN132MA4	455
130	525	2.5	11.1	7700	F512_11.1 S4 M4LA4	450	F512_11.1 P132 BN132MA4	451
134	509	1.8	10.8	5490	F412_10.8 S4 M4LA4	446	F412_10.8 P132 BN132MA4	447
158	432	1.6	9.1	5410	F412_9.1 S4 M4LA4	446	F412_9.1 P132 BN132MA4	447
159	428	2.6	9.1	7290	F512_9.1 S4 M4LA4	450	F512_9.1 P132 BN132MA4	451
200	340	2.9	7.2	6900	F512_7.2 S4 M4LA4	450	F512_7.2 P132 BN132MA4	451
214	318	2.0	6.7	5140	F412_6.7 S4 M4LA4	446	F412_6.7 P132 BN132MA4	447
269	253	2.9	10.8	4880	F412_10.8 S4 M4SB2	446	F412_10.8 P132 BN132SB2	447
317	214	2.8	9.1	4730	F412_9.1 S4 M4SB2	446	F412_9.1 P132 BN132SB2	447
431	158	3.3	6.7	4390	F412_6.7 S4 M4SB2	446	F412_6.7 P132 BN132SB2	447

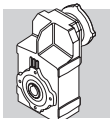
9.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
4.9	16172	0.9	291.1	55000	F904_291.1 S4 M4LB4	464	F904_291.1 P132 BN132MB4	465
5.4	14928	0.9	268.7	55000	F904_268.7 S4 M4LB4	464	F904_268.7 P132 BN132MB4	465
6.2	12854	1.1	231.4	55000	F904_231.4 S4 M4LB4	464	F904_231.4 P132 BN132MB4	465
6.7	11865	1.2	213.6	55000	F904_213.6 S4 M4LB4	464	F904_213.6 P132 BN132MB4	465
7.4	11023	1.3	194.2	55000	F903_194.2 S4 M4LB4	464	F903_194.2 P132 BN132MB4	465
8.0	10175	1.4	179.2	55000	F903_179.2 S4 M4LB4	464	F903_179.2 P132 BN132MB4	465
8.8	9244	1.5	162.8	55000	F903_162.8 S4 M4LB4	464	F903_162.8 P132 BN132MB4	465
9.6	8533	1.6	150.3	55000	F903_150.3 S4 M4LB4	464	F903_150.3 P132 BN132MB4	465
9.7	8397	1.0	147.9	45000	F803_147.9 S4 M4LB4	461	F803_147.9 P132 BN132MB4	462
10.5	7797	1.8	137.3	55000	F903_137.3 S4 M4LB4	464	F903_137.3 P132 BN132MB4	465
10.9	7533	1.1	132.7	45000	F803_132.7 S4 M4LB4	461	F803_132.7 P132 BN132MB4	462
11.4	7197	1.9	126.8	55000	F903_126.8 S4 M4LB4	464	F903_126.8 P132 BN132MB4	465
11.8	6954	1.2	122.5	45000	F803_122.5 S4 M4LB4	461	F803_122.5 P132 BN132MB4	462
12.7	6458	1.2	113.8	45000	F803_113.8 S4 M4LB4	461	F803_113.8 P132 BN132MB4	462

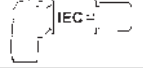


9.2 kW

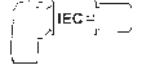
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
12.9	6355	2.2	111.9	55000	F903_111.9 S4 M4LB4	464	F903_111.9 P132 BN132MB4	465
13.9	5867	2.4	103.3	55000	F903_103.3 S4 M4LB4	464	F903_103.3 P132 BN132MB4	465
15.0	5437	2.6	95.8	55000	F903_95.8 S4 M4LB4	464	F903_95.8 P132 BN132MB4	465
15.6	5251	1.0	92.5	35000	F703_92.5 S4 M4LB4	458	F703_92.5 P132 BN132MB4	459
15.6	5241	1.5	92.3	45000	F803_92.3 S4 M4LB4	461	F803_92.3 P132 BN132MB4	462
16.3	5018	2.8	88.4	55000	F903_88.4 S4 M4LB4	464	F903_88.4 P132 BN132MB4	465
16.9	4848	1.0	85.4	35000	F703_85.4 S4 M4LB4	458	F703_85.4 P132 BN132MB4	459
16.9	4837	1.7	85.2	45000	F803_85.2 S4 M4LB4	461	F803_85.2 P132 BN132MB4	462
18.8	4352	3.2	76.7	55000	F903_76.7 S4 M4LB4	464	F903_76.7 P132 BN132MB4	465
18.9	4329	1.8	76.3	44100	F803_76.3 S4 M4LB4	461	F803_76.3 P132 BN132MB4	462
19.6	4176	1.2	73.6	35000	F703_73.6 S4 M4LB4	458	F703_73.6 P132 BN132MB4	459
20.4	4017	3.5	70.8	55000	F903_70.8 S4 M4LB4	464	F903_70.8 P132 BN132MB4	465
20.5	3996	2.0	70.4	43700	F803_70.4 S4 M4LB4	461	F803_70.4 P132 BN132MB4	462
21.2	3855	1.3	67.9	34600	F703_67.9 S4 M4LB4	458	F703_67.9 P132 BN132MB4	459
23.0	3548	1.4	62.5	34200	F703_62.5 S4 M4LB4	458	F703_62.5 P132 BN132MB4	459
23.4	3489	2.3	61.5	42200	F803_61.5 S4 M4LB4	461	F803_61.5 P132 BN132MB4	462
25.0	3275	1.5	57.7	33700	F703_57.7 S4 M4LB4	458	F703_57.7 P132 BN132MB4	459
25.4	3221	2.5	56.7	41400	F803_56.7 S4 M4LB4	461	F803_56.7 P132 BN132MB4	462
27.8	2942	1.0	51.8	20000	F603_51.8 S4 M4LB4	454	F603_51.8 P132 BN132MB4	455
29.4	2779	1.8	49.0	32800	F703_49.0 S4 M4LB4	458	F703_49.0 P132 BN132MB4	459
30.0	2716	1.1	47.8	20000	F603_47.8 S4 M4LB4	454	F603_47.8 P132 BN132MB4	455
32	2566	1.9	45.2	32300	F703_45.2 S4 M4LB4	458	F703_45.2 P132 BN132MB4	459
34	2389	1.2	42.1	20000	F603_42.1 S4 M4LB4	454	F603_42.1 P132 BN132MB4	455
37	2205	1.3	38.8	20000	F603_38.8 S4 M4LB4	454	F603_38.8 P132 BN132MB4	455
45	1821	1.6	32.1	20000	F603_32.1 S4 M4LB4	454	F603_32.1 P132 BN132MB4	455
48	1742	1.0	30.0	8210	F512_30.0 S4 M4LB4	450	F512_30.0 P132 BN132MB4	451
49	1681	1.7	29.6	20000	F603_29.6 S4 M4LB4	454	F603_29.6 P132 BN132MB4	455
57	1443	1.3	25.4	20000	F603_25.4 S4 M4LB4	454	F603_25.4 P132 BN132MB4	455
59	1394	2.9	24.6	28300	F703_24.6 S4 M4LB4	458	F703_24.6 P132 BN132MB4	459
61	1380	1.2	23.8	8170	F512_23.8 S4 M4LB4	450	F512_23.8 P132 BN132MB4	451
61	1332	1.4	23.5	20000	F603_23.5 S4 M4LB4	454	F603_23.5 P132 BN132MB4	455
64	1283	3.4	22.6	27800	F703_22.6 S4 M4LB4	458	F703_22.6 P132 BN132MB4	459
69	1185	3.4	20.9	27200	F703_20.9 S4 M4LB4	458	F703_20.9 P132 BN132MB4	459
70	1173	1.6	20.7	20000	F603_20.7 S4 M4LB4	454	F603_20.7 P132 BN132MB4	455
76	1096	1.0	18.9	4920	F412_18.9 S4 M4LB4	446	F412_18.9 P132 BN132MB4	447
76	1083	1.8	19.1	20000	F603_19.1 S4 M4LB4	454	F603_19.1 P132 BN132MB4	455
77	1092	1.4	18.8	8020	F512_18.8 S4 M4LB4	450	F512_18.8 P132 BN132MB4	451
84	993	1.1	17.1	5000	F412_17.1 S4 M4LB4	446	F412_17.1 P132 BN132MB4	447
92	890	2.1	15.7	20000	F603_15.7 S4 M4LB4	454	F603_15.7 P132 BN132MB4	455
98	848	1.2	14.6	5070	F412_14.6 S4 M4LB4	446	F412_14.6 P132 BN132MB4	447
99	822	2.3	14.5	20000	F603_14.5 S4 M4LB4	454	F603_14.5 P132 BN132MB4	455
103	811	1.8	14.0	7700	F512_14.0 S4 M4LB4	450	F512_14.0 P132 BN132MB4	451
113	723	2.6	12.7	19700	F603_12.7 S4 M4LB4	454	F603_12.7 P132 BN132MB4	455
123	667	2.8	11.8	19300	F603_11.8 S4 M4LB4	454	F603_11.8 P132 BN132MB4	455
130	644	2.1	11.1	7400	F512_11.1 S4 M4LB4	450	F512_11.1 P132 BN132MB4	451
134	625	1.4	10.8	5080	F412_10.8 S4 M4LB4	446	F412_10.8 P132 BN132MB4	447
148	551	3.4	9.7	18400	F603_9.7 S4 M4LB4	454	F603_9.7 P132 BN132MB4	455
158	530	1.3	9.1	5080	F412_9.1 S4 M4LB4	446	F412_9.1 P132 BN132MB4	447
159	525	2.1	9.1	7040	F512_9.1 S4 M4LB4	450	F512_9.1 P132 BN132MB4	451
200	417	2.3	7.2	6700	F512_7.2 S4 M4LB4	450	F512_7.2 P132 BN132MB4	451
214	390	1.6	6.7	4890	F412_6.7 S4 M4LB4	446	F412_6.7 P132 BN132MB4	447

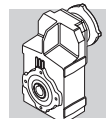


9.2 kW

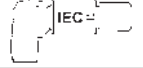
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
264	317	3.4	11.1	6340	F512_11.1 S4 M4LA2	450	F512_11.1 P132 BN132M2	451
272	307	2.4	10.8	4680	F412_10.8 S4 M4LA2	446	F412_10.8 P132 BN132M2	447
321	260	2.3	9.1	4560	F412_9.1 S4 M4LA2	446	F412_9.1 P132 BN132M2	447
324	258	3.5	9.1	5980	F512_9.1 S4 M4LA2	450	F512_9.1 P132 BN132M2	451
436	192	2.7	6.7	4270	F412_6.7 S4 M4LA2	446	F412_6.7 P132 BN132M2	447

11 kW

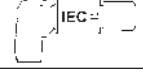
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
6.2	15369	0.9	231.4	55000	F904_231.4 S4 M4LC4	464	F904_231.4 P160 BN160MR4	465
6.7	14187	1.0	213.6	55000	F904_213.6 S4 M4LC4	464	F904_213.6 P160 BN160MR4	465
7.4	13179	1.1	194.2	55000	F903_194.2 S4 M4LC4	464	F903_194.2 P160 BN160MR4	465
8.0	12165	1.2	179.2	55000	F903_179.2 S4 M4LC4	464	F903_179.2 P160 BN160MR4	465
8.8	11053	1.3	162.8	55000	F903_162.8 S4 M4LC4	464	F903_162.8 P160 BN160MR4	465
9.6	10203	1.4	150.3	55000	F903_150.3 S4 M4LC4	464	F903_150.3 P160 BN160MR4	465
10.5	9323	1.5	137.3	55000	F903_137.3 S4 M4LC4	464	F903_137.3 P160 BN160MR4	465
11.4	8606	1.6	126.8	55000	F903_126.8 S4 M4LC4	464	F903_126.8 P160 BN160MR4	465
11.8	8314	1.0	122.5	45000	F803_122.5 S4 M4LC4	461	F803_122.5 P160 BN160MR4	462
12.7	7721	1.0	113.8	45000	F803_113.8 S4 M4LC4	461	F803_113.8 P160 BN160MR4	462
12.9	7599	1.8	111.9	55000	F903_111.9 S4 M4LC4	464	F903_111.9 P160 BN160MR4	465
13.9	7014	2.0	103.3	55000	F903_103.3 S4 M4LC4	464	F903_103.3 P160 BN160MR4	465
15.0	6500	2.2	95.8	55000	F903_95.8 S4 M4LC4	464	F903_95.8 P160 BN160MR4	465
15.6	6266	1.3	92.3	44100	F803_92.3 S4 M4LC4	461	F803_92.3 P160 BN160MR4	462
16.3	6000	2.3	88.4	55000	F903_88.4 S4 M4LC4	464	F903_88.4 P160 BN160MR4	465
16.9	5784	1.4	85.2	44000	F803_85.2 S4 M4LC4	461	F803_85.2 P160 BN160MR4	462
18.8	5203	2.7	76.7	55000	F903_76.7 S4 M4LC4	464	F903_76.7 P160 BN160MR4	465
18.9	5176	1.5	76.3	42800	F803_76.3 S4 M4LC4	461	F803_76.3 P160 BN160MR4	462
19.6	4993	1.0	73.6	33500	F703_73.6 S4 M4LC4	458	F703_73.6 P160 BN160MR4	459
20.4	4803	2.9	70.8	55000	F903_70.8 S4 M4LC4	464	F903_70.8 P160 BN160MR4	465
20.5	4778	1.7	70.4	42500	F803_70.4 S4 M4LC4	461	F803_70.4 P160 BN160MR4	462
21.2	4609	1.1	67.9	33100	F703_67.9 S4 M4LC4	458	F703_67.9 P160 BN160MR4	459
23.0	4243	1.2	62.5	32900	F703_62.5 S4 M4LC4	458	F703_62.5 P160 BN160MR4	459
23.2	4215	3.3	62.1	55000			F903_62.1 P160 BN160MR4	465
23.4	4172	1.9	61.5	41100	F803_61.5 S4 M4LC4	461	F803_61.5 P160 BN160MR4	462
25.0	3916	1.3	57.7	32500	F703_57.7 S4 M4LC4	458	F703_57.7 P160 BN160MR4	459
25.4	3851	2.1	56.7	40800	F803_56.7 S4 M4LC4	461	F803_56.7 P160 BN160MR4	462
29.3	3333	2.4	49.1	39300			F803_49.1 P160 BN160MR4	462
29.4	3323	1.5	49.0	31800	F703_49.0 S4 M4LC4	458	F703_49.0 P160 BN160MR4	459
32	3068	1.6	45.2	31300	F703_45.2 S4 M4LC4	458	F703_45.2 P160 BN160MR4	459
32	3077	2.6	45.3	38900			F803_45.3 P160 BN160MR4	462
34	2857	1.0	42.1	20000	F603_42.1 S4 M4LC4	454	F603_42.1 P160 BN160MR4	455
37	2637	1.1	38.8	20000	F603_38.8 S4 M4LC4	454	F603_38.8 P160 BN160MR4	455
38	2606	1.9	38.4	30500			F703_38.4 P160 BN160MR4	459
41	2406	2.1	35.4	30000			F703_35.4 P160 BN160MR4	459
45	2178	1.3	32.1	20000	F603_32.1 S4 M4LC4	454	F603_32.1 P160 BN160MR4	455
49	2010	1.4	29.6	20000	F603_29.6 S4 M4LC4	454	F603_29.6 P160 BN160MR4	455
52	1880	2.5	27.7	28500			F703_27.7 P160 BN160MR4	459
57	1725	1.1	25.4	20000	F603_25.4 S4 M4LC4	454	F603_25.4 P160 BN160MR4	455

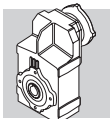


11 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
59	1667	2.4	24.6	27800	F703_24.6 S4 M4LC4	458	F703_24.6 P160 BN160MR4	459
61	1650	1.0	23.8	7500	F512_23.8 S4 M4LC4	450	F512_23.8 P160 BN160MR4	451
61	1593	1.2	23.5	20000	F603_23.5 S4 M4LC4	454	F603_23.5 P160 BN160MR4	455
64	1534	2.8	22.6	27300	F703_22.6 S4 M4LC4	458	F703_22.6 P160 BN160MR4	459
69	1416	2.8	20.9	26800	F703_20.9 S4 M4LC4	458	F703_20.9 P160 BN160MR4	459
70	1402	1.4	20.7	20000	F603_20.7 S4 M4LC4	454	F603_20.7 P160 BN160MR4	455
76	1294	1.5	19.1	20000	F603_19.1 S4 M4LC4	454	F603_19.1 P160 BN160MR4	455
77	1305	1.2	18.8	7490	F512_18.8 S4 M4LC4	450	F512_18.8 P160 BN160MR4	451
92	1064	1.8	15.7	20000	F603_15.7 S4 M4LC4	454	F603_15.7 P160 BN160MR4	455
98	1014	1.0	14.6	4490	F412_14.6 S4 M4LC4	446		
99	982	1.9	14.5	20000	F603_14.5 S4 M4LC4	454	F603_14.5 P160 BN160MR4	455
103	969	1.5	14.0	7310	F512_14.0 S4 M4LC4	450	F512_14.0 P160 BN160MR4	451
113	864	2.2	12.7	19400	F603_12.7 S4 M4LC4	454	F603_12.7 P160 BN160MR4	455
123	798	2.4	11.8	19000	F603_11.8 S4 M4LC4	454	F603_11.8 P160 BN160MR4	455
130	770	1.7	11.1	7090	F512_11.1 S4 M4LC4	450	F512_11.1 P160 BN160MR4	451
134	747	1.2	10.8	4650	F412_10.8 S4 M4LC4	446		
148	659	2.9	9.7	18200	F603_9.7 S4 M4LC4	454	F603_9.7 P160 BN160MR4	455
158	633	1.1	9.1	4720	F412_9.1 S4 M4LC4	446		
159	628	1.8	9.1	6770	F512_9.1 S4 M4LC4	450	F512_9.1 P160 BN160MR4	451
161	608	3.1	9.0	17800	F603_9.0 S4 M4LC4	454	F603_9.0 P160 BN160MR4	455
200	499	2.0	7.2	6490	F512_7.2 S4 M4LC4	450	F512_7.2 P160 BN160MR4	451
214	466	1.4	6.7	4630	F412_6.7 S4 M4LC4	446		
263	380	2.8	11.1	6170	F512_11.1 S4 M4LC2	450	F512_11.1 P160 BN160MR2	451
271	368	2.0	10.8	4460	F412_10.8 S4 M4LC2	446		
320	312	2.0	9.1	4380	F412_9.1 S4 M4LC2	446		
323	310	2.9	9.1	5840	F512_9.1 S4 M4LC2	450	F512_9.1 P160 BN160MR2	451
406	246	3.2	7.2	5510	F512_7.2 S4 M4LC2	450	F512_7.2 P160 BN160MR2	451
434	230	2.3	6.7	4130	F412_6.7 S4 M4LC2	446		

15 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
8.1	16362	0.9	179.2	55000	F903_179.2 S5 M5SB4	464	F903_179.2 P160 BN160L4	465
9.0	14866	0.9	162.8	55000	F903_162.8 S5 M5SB4	464	F903_162.8 P160 BN160L4	465
9.7	13722	1.0	150.3	55000	F903_150.3 S5 M5SB4	464	F903_150.3 P160 BN160L4	465
10.6	12539	1.1	137.3	55000	F903_137.3 S5 M5SB4	464	F903_137.3 P160 BN160L4	465
11.5	11574	1.2	126.8	55000	F903_126.8 S5 M5SB4	464	F903_126.8 P160 BN160L4	465
13.0	10220	1.4	111.9	55000	F903_111.9 S5 M5SB4	464	F903_111.9 P160 BN160L4	465
14.1	9434	1.5	103.3	55000	F903_103.3 S5 M5SB4	464	F903_103.3 P160 BN160L4	465
15.2	8743	1.6	95.8	55000	F903_95.8 S5 M5SB4	464	F903_95.8 P160 BN160L4	465
15.8	8427	0.9	92.3	41300	F803_92.3 S5 M5SB4	461	F803_92.3 P160 BN160L4	462
16.5	8070	1.7	88.4	55000	F903_88.4 S5 M5SB4	464	F903_88.4 P160 BN160L4	465
17.1	7779	1.0	85.2	40800	F803_85.2 S5 M5SB4	461	F803_85.2 P160 BN160L4	462
19.0	6998	2.0	76.7	55000	F903_76.7 S5 M5SB4	464	F903_76.7 P160 BN160L4	465
19.1	6961	1.1	76.3	40500	F803_76.3 S5 M5SB4	461	F803_76.3 P160 BN160L4	462
20.6	6460	2.2	70.8	55000	F903_70.8 S5 M5SB4	464	F903_70.8 P160 BN160L4	465
20.7	6426	1.2	70.4	39900	F803_70.4 S5 M5SB4	461	F803_70.4 P160 BN160L4	462
23.5	5669	2.5	62.1	55000			F903_62.1 P160 BN160L4	465

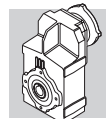


15 kW

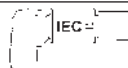
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
23.8	5611	1.4	61.5	38700	F803_61.5 S5 M5SB4	461	F803_61.5 P160 BN160L4	462
25.3	5267	0.9	57.7	29700	F703_57.7 S5 M5SB4	458	F703_57.7 P160 BN160L4	459
25.5	5233	2.7	57.3	55000			F903_57.3 P160 BN160L4	465
25.7	5179	1.5	56.7	38600	F803_56.7 S5 M5SB4	461	F803_56.7 P160 BN160L4	462
29.7	4483	1.8	49.1	37800			F803_49.1 P160 BN160L4	462
29.8	4470	1.1	49.0	29400	F703_49.0 S5 M5SB4	458	F703_49.0 P160 BN160L4	459
32	4126	1.2	45.2	29100	F703_45.2 S5 M5SB4	458	F703_45.2 P160 BN160L4	459
32	4138	1.9	45.3	37200			F803_45.3 P160 BN160L4	462
38	3505	1.4	38.4	28600			F703_38.4 P160 BN160L4	459
41	3235	1.5	35.4	28200			F703_35.4 P160 BN160L4	459
46	2929	1.0	32.1	20000	F603_32.1 S5 M5SB4	454	F603_32.1 P160 BN160L4	455
49	2704	1.1	29.6	20000	F603_29.6 S5 M5SB4	454	F603_29.6 P160 BN160L4	455
53	2528	1.8	27.7	27100			F703_27.7 P160 BN160L4	459
58	2303	2.7	25.2	32900	F803_25.2 S5 M5SB4	461	F803_25.2 P160 BN160L4	462
59	2242	1.8	24.6	26500	F703_24.6 S5 M5SB4	458	F703_24.6 P160 BN160L4	459
65	2064	2.1	22.6	26200	F703_22.6 S5 M5SB4	458	F703_22.6 P160 BN160L4	459
66	2011	3.4	22.0	31900	F803_22.0 S5 M5SB4	461	F803_22.0 P160 BN160L4	462
70	1905	2.1	20.9	25700	F703_20.9 S5 M5SB4	458	F703_20.9 P160 BN160L4	459
71	1886	1.0	20.7	20000	F603_20.7 S5 M5SB4	454	F603_20.7 P160 BN160L4	455
72	1856	3.4	20.3	31300	F803_20.3 S5 M5SB4	461	F803_20.3 P160 BN160L4	462
77	1741	1.1	19.1	20000	F603_19.1 S5 M5SB4	454	F603_19.1 P160 BN160L4	455
82	1617	2.7	17.7	24900	F703_17.7 S5 M5SB4	458	F703_17.7 P160 BN160L4	459
89	1492	2.7	16.3	24400	F703_16.3 S5 M5SB4	458	F703_16.3 P160 BN160L4	459
93	1432	1.3	15.7	19600	F603_15.7 S5 M5SB4	454	F603_15.7 P160 BN160L4	455
101	1321	1.4	14.5	19200	F603_14.5 S5 M5SB4	454	F603_14.5 P160 BN160L4	455
105	1268	3.1	13.9	23600	F703_13.9 S5 M5SB4	458	F703_13.9 P160 BN160L4	459
114	1170	3.1	12.8	23100	F703_12.8 S5 M5SB4	458	F703_12.8 P160 BN160L4	459
115	1162	1.6	12.7	18800	F603_12.7 S5 M5SB4	454	F603_12.7 P160 BN160L4	455
124	1073	1.8	11.8	18400	F603_11.8 S5 M5SB4	454	F603_11.8 P160 BN160L4	455
135	991	3.5	10.9	22300	F703_10.9 S5 M5SB4	458	F703_10.9 P160 BN160L4	459
146	914	3.5	10.0	21800	F703_10.0 S5 M5SB4	458	F703_10.0 P160 BN160L4	459
150	886	2.1	9.7	17700	F603_9.7 S5 M5SB4	454	F603_9.7 P160 BN160L4	455
163	818	2.3	9.0	17300	F603_9.0 S5 M5SB4	454	F603_9.0 P160 BN160L4	455

18.5 kW

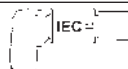
n2 min ⁻¹	M2 Nm	S	i	Rn2 N				
10.6	15456	0.9	137.3	55000	F903_137.3 S5 M5LA4	464	F903_137.3 P180 BN180M4	465
11.5	14267	1.0	126.8	55000	F903_126.8 S5 M5LA4	464	F903_126.8 P180 BN180M4	465
13.0	12598	1.1	111.9	55000	F903_111.9 S5 M5LA4	464	F903_111.9 P180 BN180M4	465
14.1	11629	1.2	103.3	55000	F903_103.3 S5 M5LA4	464	F903_103.3 P180 BN180M4	465
15.2	10777	1.3	95.8	55000	F903_95.8 S5 M5LA4	464	F903_95.8 P180 BN180M4	465
16.5	9948	1.4	88.4	55000	F903_88.4 S5 M5LA4	464	F903_88.4 P180 BN180M4	465
19.0	8626	1.6	76.7	55000	F903_76.7 S5 M5LA4	464	F903_76.7 P180 BN180M4	465
19.1	8581	0.9	76.3	38100	F803_76.3 S5 M5LA4	461	F803_76.3 P180 BN180M4	462
20.6	7963	1.8	70.8	55000	F903_70.8 S5 M5LA4	464	F903_70.8 P180 BN180M4	465
20.7	7921	1.0	70.4	37600	F803_70.4 S5 M5LA4	461	F803_70.4 P180 BN180M4	462
23.5	6989	2.0	62.1	55000			F903_62.1 P180 BN180M4	465

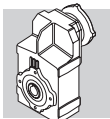


18.5 kW

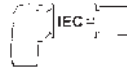
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
23.8	6916	1.1	61.5	37400	F803_61.5 S5 M5LA4	461	F803_61.5 P180 BN180M4	462
25.5	6451	2.2	57.3	55000			F903_57.3 P180 BN180M4	465
25.7	6384	1.3	56.7	36800	F803_56.7 S5 M5LA4	461	F803_56.7 P180 BN180M4	462
29.3	5615	2.5	49.9	55000			F903_49.9 P180 BN180M4	465
29.7	5526	1.4	49.1	35800			F803_49.1 P180 BN180M4	462
29.8	5510	0.9	49.0	27400	F703_49.0 S5 M5LA4	458	F703_49.0 P180 BN180M4	459
32	5183	2.7	46.1	55000			F903_46.1 P180 BN180M4	465
32	5101	1.6	45.3	35700			F803_45.3 P180 BN180M4	462
32	5086	1.0	45.2	27200	F703_45.2 S5 M5LA4	458	F703_45.2 P180 BN180M4	459
36	4558	3.1	40.5	53700			F903_40.5 P180 BN180M4	465
37	4389	1.8	39.0	35000			F803_39.0 P180 BN180M4	462
38	4321	1.2	38.4	27000			F703_38.4 P180 BN180M4	459
39	4207	3.2	37.4	52700			F903_37.4 P180 BN180M4	465
41	4051	2.0	36.0	34400			F803_36.0 P180 BN180M4	462
41	3988	1.3	35.4	26700			F703_35.4 P180 BN180M4	459
47	3517	2.3	31.3	33600			F803_31.3 P180 BN180M4	462
49	3376	1.5	30.0	26300			F703_30.0 P180 BN180M4	459
51	3246	2.5	28.8	33000			F803_28.8 P180 BN180M4	462
53	3116	1.5	27.7	26000			F703_27.7 P180 BN180M4	459
58	2839	2.2	25.2	32100	F803_25.2 S5 M5LA4	461	F803_25.2 P180 BN180M4	462
59	2764	1.4	24.6	25500	F703_24.6 S5 M5LA4	458	F703_24.6 P180 BN180M4	459
65	2544	1.7	22.6	25200	F703_22.6 S5 M5LA4	458	F703_22.6 P180 BN180M4	459
66	2479	2.7	22.0	31300	F803_22.0 S5 M5LA4	461	F803_22.0 P180 BN180M4	462
70	2348	1.7	20.9	24900	F703_20.9 S5 M5LA4	458	F703_20.9 P180 BN180M4	459
72	2288	2.7	20.3	30600	F803_20.3 S5 M5LA4	461	F803_20.3 P180 BN180M4	462
82	1993	2.2	17.7	24200	F703_17.7 S5 M5LA4	458	F703_17.7 P180 BN180M4	459
83	1981	3.4	17.6	29700	F803_17.6 S5 M5LA4	461	F803_17.6 P180 BN180M4	462
89	1839	2.2	16.3	23800	F703_16.3 S5 M5LA4	458	F703_16.3 P180 BN180M4	459
90	1828	3.4	16.2	29100	F803_16.2 S5 M5LA4	461	F803_16.2 P180 BN180M4	462
93	1765	1.1	15.7	18700	F603_15.7 S5 M5LA4	454	F603_15.7 P180 BN180M4	455
101	1629	1.2	14.5	18600	F603_14.5 S5 M5LA4	454	F603_14.5 P180 BN180M4	455
105	1563	2.5	13.9	23000	F703_13.9 S5 M5LA4	458	F703_13.9 P180 BN180M4	459
114	1442	2.5	12.8	22600	F703_12.8 S5 M5LA4	458	F703_12.8 P180 BN180M4	459
115	1433	1.3	12.7	18300	F603_12.7 S5 M5LA4	454	F603_12.7 P180 BN180M4	455
124	1323	1.4	11.8	17900	F603_11.8 S5 M5LA4	454	F603_11.8 P180 BN180M4	455
135	1221	2.8	10.9	21800	F703_10.9 S5 M5LA4	458	F703_10.9 P180 BN180M4	459
146	1127	2.8	10.0	21400	F703_10.0 S5 M5LA4	458	F703_10.0 P180 BN180M4	459
150	1092	1.7	9.7	17300	F603_9.7 S5 M5LA4	454	F603_9.7 P180 BN180M4	455
163	1008	1.9	9.0	16900	F603_9.0 S5 M5LA4	454	F603_9.0 P180 BN180M4	455

22 kW

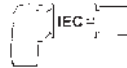
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
13.1	14880	0.9	111.9	55000			F903_111.9 P180 BN180L4	465
14.2	13735	1.0	103.3	55000			F903_103.3 P180 BN180L4	465
15.4	12728	1.1	95.8	55000			F903_95.8 P180 BN180L4	465
16.6	11749	1.2	88.4	55000			F903_88.4 P180 BN180L4	465
19.2	10188	1.4	76.7	55000			F903_76.7 P180 BN180L4	465

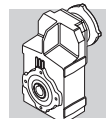


22 kW

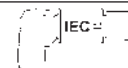
n ₂ min-1	M ₂ Nm	S	i	R _{n2} N				
20.8	9405	1.5	70.8	55000			F903_70.8 P180 BN180L4	465
23.7	8254	1.7	62.1	55000			F903_62.1 P180 BN180L4	465
23.9	8169	1.0	61.5	35400			F803_61.5 P180 BN180L4	462
25.6	7619	1.8	57.3	55000			F903_57.3 P180 BN180L4	465
25.9	7541	1.1	56.7	35000			F803_56.7 P180 BN180L4	462
29.5	6632	2.1	49.9	54400			F903_49.9 P180 BN180L4	465
29.9	6527	1.2	49.1	34100			F803_49.1 P180 BN180L4	462
32	6122	2.3	46.1	53500			F903_46.1 P180 BN180L4	465
32	6025	1.3	45.3	34300			F803_45.3 P180 BN180L4	462
36	5383	2.6	40.5	52300			F903_40.5 P180 BN180L4	465
38	5184	1.5	39.0	33300			F803_39.0 P180 BN180L4	462
38	5103	1	38.4	25400			F703_38.4 P180 BN180L4	459
39	4969	2.7	37.4	51400			F903_37.4 P180 BN180L4	465
41	4785	1.7	36.0	33200			F803_36.0 P180 BN180L4	462
41	4711	1.1	35.4	25300			F703_35.4 P180 BN180L4	459
47	4154	1.9	31.3	32600			F803_31.3 P180 BN180L4	462
47	4120	3.2	31.0	49500			F903_31.0 P180 BN180L4	465
49	3988	1.3	30.0	25100			F703_30.0 P180 BN180L4	459
51	3834	2.1	28.8	32000			F803_28.8 P180 BN180L4	462
51	3803	3.2	28.6	48600			F903_28.6 P180 BN180L4	465
53	3681	1.3	27.7	24800			F703_27.7 P180 BN180L4	459
58	3353	1.9	25.2	31300			F803_25.2 P180 BN180L4	462
60	3264	1.2	24.6	24500			F703_24.6 P180 BN180L4	459
65	3005	1.4	22.6	24300			F703_22.6 P180 BN180L4	459
67	2928	2.3	22	30200			F803_22.0 P180 BN180L4	462
70	2773	1.4	20.9	24000			F703_20.9 P180 BN180L4	459
72	2703	2.3	20.3	29900			F803_20.3 P180 BN180L4	462
83	2354	1.8	17.7	23400			F703_17.7 P180 BN180L4	459
84	2339	2.9	17.6	29100			F803_17.6 P180 BN180L4	462
90	2173	1.8	16.3	23100			F703_16.3 P180 BN180L4	459
90	2159	2.9	16.2	28500			F803_16.2 P180 BN180L4	462
106	1846	2.1	13.9	22400			F703_13.9 P180 BN180L4	459
115	1704	2.1	12.8	22100			F703_12.8 P180 BN180L4	459
115	1692	1.1	12.7	17700			F603_12.7 P180 BN180L4	455
125	1562	1.2	11.8	17400			F603_11.8 P180 BN180L4	455
135	1442	2.4	10.9	21400			F703_10.9 P180 BN180L4	459
147	1331	2.4	10.0	21000			F703_10.0 P180 BN180L4	459
151	1290	1.5	9.7	16900			F603_9.7 P180 BN180L4	455
164	1191	1.6	9.0	16500			F603_9.0 P180 BN180L4	455

30 kW

n ₂ min-1	M ₂ Nm	S	i	R _{n2} N				
16.6	16022	0.9	88.4	52200			F903_88.4 P200 BN200L4	465
19.2	13893	1.0	76.7	52400			F903_76.7 P200 BN200L4	465
20.8	12825	1.1	70.8	52100			F903_70.8 P200 BN200L4	465
23.7	11256	1.2	62.1	51800			F903_62.1 P200 BN200L4	465



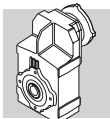
30 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
25.6	10390	1.3	57.3	51400			F903_57.3 P200 BN200L4	465
29.5	9044	1.5	49.9	50800			F903_49.9 P200 BN200L4	465
32	8348	1.7	46.1	50200			F903_46.1 P200 BN200L4	465
32	8216	1.0	45.3	30900			F803_45.3 P200 BN200L4	462
36	7341	1.9	40.5	49400			F903_40.5 P200 BN200L4	465
38	7069	1.1	39.0	31000			F803_39.0 P200 BN200L4	462
39	6776	2.0	37.4	48700			F903_37.4 P200 BN200L4	465
41	6525	1.2	36.0	30600			F803_36.0 P200 BN200L4	462
47	5664	1.4	31.3	29900			F803_31.3 P200 BN200L4	462
47	5618	2.3	31.0	47300			F903_31.0 P200 BN200L4	465
49	5438	0.9	30.0	22300			F703_30.0 P200 BN200L4	459
51	5229	1.5	28.8	29500			F803_28.8 P200 BN200L4	462
51	5186	2.3	28.6	46600			F903_28.6 P200 BN200L4	465
53	5019	0.9	27.7	22200			F703_27.7 P200 BN200L4	459
58	4601	2.6	25.4	45500			F903_25.4 P200 BN200L4	465
58	4572	1.2	25.2	29500			F803_25.2 P200 BN200L4	462
66	4039	3.0	22.3	44400			F903_22.3 P200 BN200L4	465
67	3992	1.7	22.0	29000			F803_22.0 P200 BN200L4	462
71	3728	3.0	20.6	43600			F903_20.6 P200 BN200L4	465
72	3685	1.7	20.3	28500			F803_20.3 P200 BN200L4	462
83	3209	1.4	17.7	21800			F703_17.7 P200 BN200L4	459
84	3190	2.1	17.6	27900			F803_17.6 P200 BN200L4	462
90	2963	1.4	16.3	21500			F703_16.3 P200 BN200L4	459
90	2945	2.1	16.2	27400			F803_16.2 P200 BN200L4	462
105	2534	2.7	14.0	26700			F803_14.0 P200 BN200L4	462
106	2517	1.5	13.9	21100			F703_13.9 P200 BN200L4	459
114	2339	2.7	12.9	26200			F803_12.9 P200 BN200L4	462
115	2323	1.5	12.8	20900			F703_12.8 P200 BN200L4	459
135	1967	1.8	10.9	20300			F703_10.9 P200 BN200L4	459
142	1874	3.0	10.3	24900			F803_10.3 P200 BN200L4	462
147	1815	1.8	10.0	20000			F703_10.0 P200 BN200L4	459

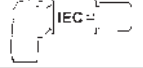
37 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
20.9	15710	0.9	70.8	47600			F903_70.8 P225 IEC225S4	465
25.8	12728	1.1	57.3	47700			F903_57.3 P225 IEC225S4	465
29.7	11079	1.3	49.9	47600			F903_49.9 P225 IEC225S4	465
32	10227	1.4	46.1	47200			F903_46.1 P225 IEC225S4	465
37	8993	1.6	40.5	46800			F903_40.5 P225 IEC225S4	465
38	8659	0.9	39.0	28500			F803_39.0 P225 IEC225S4	462
40	8301	1.6	37.4	46300			F903_37.4 P225 IEC225S4	465
41	7993	1.0	36.0	28300			F803_36.0 P225 IEC225S4	462
47	6939	1.2	31.3	28400			F803_31.3 P225 IEC225S4	462
48	6882	1.9	31.0	45300			F903_31.0 P225 IEC225S4	465
51	6405	1.2	28.8	28100			F803_28.8 P225 IEC225S4	462
52	6353	1.9	28.6	44700			F903_28.6 P225 IEC225S4	465
58	5637	2.1	25.4	43900			F903_25.4 P225 IEC225S4	465

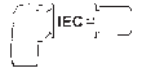
*Los datos técnicos son indicativos, las configuraciones deben reflejarse de los fabricantes de motores eléctricos para poder por encima de 30 kW.



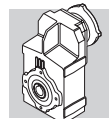
37 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
59	5601	1.1	25.2	27800			F803_25.2 P225 IEC225S4	462
66	4947	2.4	22.3	43000			F903_22.3 P225 IEC225S4	465
67	4891	1.1	22.0	27600			F803_22.0 P225 IEC225S4	462
72	4567	2.5	20.6	42300			F903_20.6 P225 IEC225S4	465
73	4515	1.1	20.3	27200			F803_20.3 P225 IEC225S4	462
83	3975	2.8	17.9	41200			F903_17.9 P225 IEC225S4	465
84	3908	1.7	17.6	26800			F803_17.6 P225 IEC225S4	462
90	3669	2.8	16.5	40500			F903_16.5 P225 IEC225S4	465
91	3607	1.7	16.2	26300			F803_16.2 P225 IEC225S4	462
102	3226	3.1	14.5	39500			F903_14.5 P225 IEC225S4	465
106	3104	2.2	14.0	25800			F803_14.0 P225 IEC225S4	462
110	2978	3.1	13.4	38700			F903_13.4 P225 IEC225S4	465
115	2865	2.2	12.9	25300			F803_12.9 P225 IEC225S4	462
132	2487	2.4	11.2	24500			F803_11.2 P225 IEC225S4	462
143	2296	2.4	10.3	24300			F803_10.3 P225 IEC225S4	462

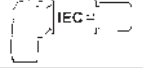
45 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
32	12438	1.1	46.1	43900			F903_46.1 P225 IEC225M4	465
37	10937	1.3	40.5	43900			F903_40.5 P225 IEC225M4	465
40	10096	1.3	37.4	43600			F903_37.4 P225 IEC225M4	465
47	8439	0.9	31.3	26100			F803_31.3 P225 IEC225M4	462
48	8370	1.6	31.0	43100			F903_31.0 P225 IEC225M4	465
51	7790	1.0	28.8	26000			F803_28.8 P225 IEC225M4	462
52	7726	1.6	28.6	42600			F903_28.6 P225 IEC225M4	465
58	6855	1.8	25.4	42000			F903_25.4 P225 IEC225M4	465
66	6017	2.0	22.3	41400			F903_22.3 P225 IEC225M4	465
67	5948	1.1	22.0	26000			F803_22.0 P225 IEC225M4	462
72	5554	2.0	20.6	40800			F903_20.6 P225 IEC225M4	465
73	5491	1.1	20.3	25700			F803_20.3 P225 IEC225M4	462
83	4834	2.3	17.9	39900			F903_17.9 P225 IEC225M4	465
84	4753	1.4	17.6	25500			F803_17.6 P225 IEC225M4	462
90	4463	2.3	16.5	39300			F903_16.5 P225 IEC225M4	465
91	4387	1.4	16.2	25200			F803_16.2 P225 IEC225M4	462
102	3924	2.5	14.5	38400			F903_14.5 P225 IEC225M4	465
106	3775	1.8	14.0	24800			F803_14.0 P225 IEC225M4	462
110	3622	2.6	13.4	37800			F903_13.4 P225 IEC225M4	465
115	3484	1.8	12.9	24100			F803_12.9 P225 IEC225M4	462
132	3025	1.5	11.2	24000			F803_11.2 P225 IEC225M4	462
133	3003	2.9	11.1	36400			F903_11.1 P225 IEC225M4	465
143	2792	2.0	10.3	23500			F803_10.3 P225 IEC225M4	462

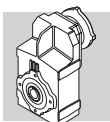
*Los datos técnicos son indicativos, las configuraciones deben reflejarse de los fabricantes de motores eléctricos para poder por encima de 30 kW.



55 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
32	15202	0.9	46.1	39700			F903_46.1 P250 IEC250M4	465
37	13367	1.0	40.5	40300			F903_40.5 P250 IEC250M4	465
40	12339	1.1	37.4	40200			F903_37.4 P250 IEC250M4	465
48	10230	1.3	31.0	40300			F903_31.0 P250 IEC250M4	465
52	9443	1.3	28.6	40100			F903_28.6 P250 IEC250M4	465
58	8379	1.4	25.4	39700			F903_25.4 P250 IEC250M4	465
66	7354	1.6	22.3	39400			F903_22.3 P250 IEC250M4	465
72	6788	1.7	20.6	38900			F903_20.6 P250 IEC250M4	465
83	5909	1.9	17.9	38300			F903_17.9 P250 IEC250M4	465
90	5454	1.9	16.5	37800			F903_16.5 P250 IEC250M4	465
102	4796	2.1	14.5	37100			F903_14.5 P250 IEC250M4	465
110	4427	2.1	13.4	36600			F903_13.4 P250 IEC250M4	465
133	3671	2.4	11.1	35400			F903_11.1 P250 IEC250M4	465
144	3388	2.4	10.3	34800			F903_10.3 P250 IEC250M4	465

*Los datos técnicos son indicativos, las configuraciones deben reflejarse de los fabricantes de motores eléctricos para poder por encima de 30 kW.

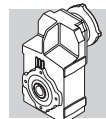


61 DATOS TÉCNICOS REDUCTORES

F 10

140 Nm

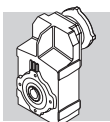
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 10 2_7.4	7.4	378	63	2.6	1000	1290	189	76	1.6	1290	1640	431
F 10 2_8.6	8.6	326	67	2.4	980	1350	163	82	1.5	1260	1710	
F 10 2_9.8	9.8	287	73	2.3	980	1410	143	89	1.4	1250	1780	
F 10 2_11.5	11.5	243	78	2.1	950	1480	121	96	1.3	1220	1870	
F 10 2_13.0	13.0	215	85	2.0	940	1530	107	104	1.2	1210	1940	
F 10 2_14.6	14.6	191	94	2.0	1120	1590	96	119	1.3	1300	2000	
F 10 2_17.0	17.0	165	104	1.9	1090	1650	82	128	1.2	1300	2090	
F 10 2_19.3	19.3	145	108	1.7	1100	1730	72	136	1.1	1300	2180	
F 10 2_22.8	22.8	123	119	1.6	1080	1810	61	140	0.95	1300	2310	
F 10 2_25.8	25.8	109	123	1.5	1090	1890	54	140	0.84	1300	2430	
F 10 2_29.6	29.6	94	132	1.4	1060	1970	47	140	0.73	1300	2560	
F 10 2_33.0	33.0	85	137	1.3	1070	2040	42	140	0.65	1300	2670	
F 10 2_35.3	35.3	79	140	1.2	1060	2090	40	140	0.61	1300	2740	
F 10 2_39.6	39.6	71	140	1.1	1080	2190	35	140	0.54	1300	2800	
F 10 2_44.7	44.7	63	140	0.97	1080	2290	31	140	0.48	1300	2800	
F 10 2_48.7	48.7	57	140	0.89	1090	2370	28.7	140	0.44	1300	2800	
F 10 2_56.7	56.7	49	140	0.76	1100	2520	24.7	140	0.38	1300	2800	
F 10 2_63.0	63.0	44	140	0.69	1110	2620	22.2	140	0.34	1300	2800	
F 10 2_71.1	71.1	39	140	0.61	1000	2750	19.7	140	0.30	1300	2800	
F 10 2_81.3	81.3	34	140	0.53	1110	2800	17.2	140	0.27	1300	2800	
F 10 2_91.5	91.5	31	140	0.47	1110	2800	15.3	140	0.24	1300	2800	
F 10 2_106.0	106.0	26.4	140	0.41	1120	2800	13.2	140	0.20	1300	2800	
F 10 2_127.1	127.1	22.0	140	0.34	1130	2800	11.0	140	0.17	1300	2800	



F 10

140 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 10 2_7.4	7.4	122	91	1.2	1300	1890	68	111	0.83	1300	2300	431
F 10 2_8.6	8.6	105	94	1.1	1300	1970	58	112	0.72	1300	2430	
F 10 2_9.8	9.8	92	107	1.1	1300	2050	51	130	0.73	1300	2490	
F 10 2_11.5	11.5	78	110	0.95	1300	2180	43	131	0.63	1300	2660	
F 10 2_13.0	13.0	69	124	0.94	1300	2240	38	140	0.59	1300	2800	
F 10 2_14.6	14.6	61	138	0.93	1300	2320	34	140	0.53	1300	2800	
F 10 2_17.0	17.0	53	140	0.82	1300	2450	29.5	140	0.46	1300	2800	
F 10 2_19.3	19.3	47	140	0.72	1300	2580	25.9	140	0.40	1300	2800	
F 10 2_22.8	22.8	39	140	0.61	1300	2750	21.9	140	0.34	1300	2800	
F 10 2_25.8	25.8	35	140	0.54	1300	2800	19.4	140	0.30	1300	2800	
F 10 2_29.6	29.6	30	140	0.47	1300	2800	16.9	140	0.26	1300	2800	
F 10 2_33.0	33.0	27.3	140	0.42	1300	2800	15.2	140	0.23	1300	2800	
F 10 2_35.3	35.3	25.5	140	0.39	1300	2800	14.1	140	0.22	1300	2800	
F 10 2_39.6	39.6	22.7	140	0.35	1300	2800	12.6	140	0.19	1300	2800	
F 10 2_44.7	44.7	20.1	140	0.31	1300	2800	11.2	140	0.17	1300	2800	
F 10 2_48.7	48.7	18.5	140	0.29	1300	2800	10.3	140	0.16	1300	2800	
F 10 2_56.7	56.7	15.9	140	0.24	1300	2800	8.8	140	0.14	1300	2800	
F 10 2_63.0	63.0	14.3	140	0.22	1300	2800	7.9	140	0.12	1300	2800	
F 10 2_71.1	71.1	12.7	140	0.20	1300	2800	7.0	140	0.11	1300	2800	
F 10 2_81.3	81.3	11.1	140	0.17	1300	2800	6.1	140	0.09	1300	2800	
F 10 2_91.5	91.5	9.8	140	0.15	1300	2800	5.5	140	0.08	1300	2800	
F 10 2_106.0	106.0	8.5	140	0.13	1300	2800	4.7	140	0.07	1300	2800	
F 10 2_127.1	127.1	7.1	140	0.11	1300	2800	3.9	140	0.06	1300	2800	

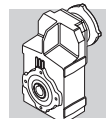


F 20

250 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 20 2_6.4	6.4	437	103	5.0	—	1370	218	130	3.1	—	1720	435
F 20 2_7.8	7.8	357	115	4.5	—	1440	179	144	2.8	—	1820	
F 20 2_8.7	8.7	321	123	4.3	—	1490	160	155	2.7	—	1870	
F 20 2_10.0	10.0	279	131	4.0	—	1550	140	165	2.5	—	1950	
F 20 2_11.2	11.2	249	141	3.9	—	1590	125	177	2.4	—	2010	
F 20 2_14.8	14.8	189	166	3.5	760	1740	95	203	2.1	1010	2210	
F 20 2_18.1	18.1	155	175	3.0	750	1870	77	213	1.8	1020	2380	
F 20 2_20.2	20.2	139	182	2.8	810	1940	69	223	1.7	1070	2460	
F 20 2_23.1	23.1	121	190	2.5	770	2030	60	235	1.6	1000	2570	
F 20 2_25.9	25.9	108	196	2.3	830	2110	54	240	1.4	1100	2680	
F 20 2_30.4	30.4	92	205	2.1	780	2230	46	250	1.3	1050	2840	
F 20 2_33.1	33.1	85	210	2.0	800	2300	42	250	1.2	1120	2940	
F 20 2_37.9	37.9	74	220	1.8	740	2400	37	250	1.0	1130	3110	
F 20 2_41.8	41.8	67	225	1.7	780	2490	33	250	0.92	1220	3240	
F 20 2_44.8	44.8	62	235	1.6	690	2540	31	250	0.86	1200	3330	
F 20 2_50.7	50.7	55	238	1.4	780	2660	27.6	250	0.76	1320	3500	
F 20 2_56.7	56.7	49	250	1.4	730	2750	24.7	250	0.68	1360	3660	
F 20 2_61.9	61.9	45	250	1.2	750	2860	22.6	250	0.62	1370	3790	
F 20 2_69.1	69.1	40	250	1.1	760	2990	20.2	250	0.56	1370	3950	
F 20 2_76.8	76.8	36	250	1.0	780	3130	18.2	250	0.50	1380	4000	
F 20 2_90.4	90.4	31	250	0.85	830	3340	15.5	250	0.43	1390	4000	
F 20 2_101.6	101.6	27.5	250	0.76	830	3500	13.8	250	0.38	1390	4000	
F 20 2_114.3	114.3	24.5	250	0.67	850	3670	12.2	250	0.34	1400	4000	
F 20 2_132.2	132.2	21.2	250	0.58	870	3890	10.6	250	0.29	1400	4000	
F 20 3_156.3	156.3	17.9	250	0.50	1170	4000	9.0	250	0.25	1300	4000	
F 20 3_172.6	172.6	16.2	250	0.46	1200	4000	8.1	250	0.23	1300	4000	
F 20 3_184.9	184.9	15.1	250	0.43	1210	4000	7.6	250	0.21	1300	4000	
F 20 3_209.3	209.3	13.4	250	0.38	1240	4000	6.7	250	0.19	1300	4000	
F 20 3_234.0	234.0	12.0	250	0.34	1270	4000	6.0	250	0.17	1300	4000	
F 20 3_255.3	255.3	11.0	250	0.31	1280	4000	5.5	250	0.15	1300	4000	
F 20 3_285.2	285.2	9.8	250	0.28	1300	4000	4.9	250	0.14	1300	4000	
F 20 3_316.9	316.9	8.8	250	0.25	1300	4000	4.4	250	0.12	1300	4000	
F 20 3_372.9	372.9	7.5	250	0.21	1300	4000	3.8	250	0.11	1300	4000	
F 20 3_419.3	419.3	6.7	250	0.19	1300	4000	3.3	250	0.09	1300	4000	
F 20 3_471.7	471.7	5.9	250	0.17	1300	4000	3.0	250	0.08	1300	4000	
F 20 3_545.3	545.3	5.1	250	0.14	1300	4000	2.6	250	0.07	1300	4000	

(—) Contactar con nuestro Servicio Técnico comunicando los datos relativos a la carga radial (sentido de giro, orientación, posición)

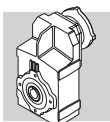


F 20

250 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 20 2_6.4	6.4	140	150	2.3	—	1990	218	183	4.4	—	2420	435
F 20 2_7.8	7.8	115	167	2.1	—	2110	64	189	1.3	—	2610	
F 20 2_8.7	8.7	103	180	2.0	—	2170	57	219	1.4	—	2640	
F 20 2_10.0	10.0	90	191	1.9	—	2260	50	221	1.2	—	2790	
F 20 2_11.2	11.2	80	205	1.8	—	2330	45	250	1.2	—	2830	
F 20 2_14.8	14.8	61	232	1.6	1210	2570	34	250	0.93	1790	3230	
F 20 2_18.1	18.1	50	250	1.4	1150	2740	27.7	250	0.76	1910	3500	
F 20 2_20.2	20.2	45	250	1.2	1320	2870	24.8	250	0.68	1960	3650	
F 20 2_23.1	23.1	39	250	1.1	1350	3040	21.6	250	0.60	1970	3860	
F 20 2_25.9	25.9	35	250	0.96	1500	3190	19.3	250	0.53	2010	4000	
F 20 2_30.4	30.4	29.6	250	0.82	1530	3400	16.5	250	0.45	2020	4000	
F 20 2_33.1	33.1	27.2	250	0.75	1580	3520	15.1	250	0.42	2040	4000	
F 20 2_37.9	37.9	23.8	250	0.65	1590	3720	13.2	250	0.36	2040	4000	
F 20 2_41.8	41.8	21.5	250	0.59	1610	3870	12.0	250	0.33	2070	4000	
F 20 2_44.8	44.8	20.1	250	0.55	1610	3970	11.2	250	0.31	2060	4000	
F 20 2_50.7	50.7	17.7	250	0.49	1640	4000	9.9	250	0.27	2090	4000	
F 20 2_56.7	56.7	15.9	250	0.44	1650	4000	8.8	250	0.24	2110	4000	
F 20 2_61.9	61.9	14.5	250	0.40	1660	4000	8.1	250	0.22	2110	4000	
F 20 2_69.1	69.1	13.0	250	0.36	1660	4000	7.2	250	0.20	2110	4000	
F 20 2_76.8	76.8	11.7	250	0.32	1670	4000	6.5	250	0.18	2120	4000	
F 20 2_90.4	90.4	10.0	250	0.27	1680	4000	5.5	250	0.15	2130	4000	
F 20 2_101.6	101.6	8.9	250	0.24	1680	4000	4.9	250	0.14	2130	4000	
F 20 2_114.3	114.3	7.9	250	0.22	1690	4000	4.4	250	0.12	2140	4000	
F 20 2_132.2	132.2	6.8	250	0.19	1690	4000	3.8	250	0.10	2150	4000	
F 20 3_156.3	156.3	5.8	250	0.16	1300	4000	3.2	250	0.09	1300	4000	
F 20 3_172.6	172.6	5.2	250	0.15	1300	4000	2.9	250	0.08	1300	4000	
F 20 3_184.9	184.9	4.9	250	0.14	1300	4000	2.7	250	0.08	1300	4000	
F 20 3_209.3	209.3	4.3	250	0.12	1300	4000	2.4	250	0.07	1300	4000	
F 20 3_234.0	234.0	3.8	250	0.11	1300	4000	2.1	250	0.06	1300	4000	
F 20 3_255.3	255.3	3.5	250	0.10	1300	4000	2.0	250	0.06	1300	4000	
F 20 3_285.2	285.2	3.2	250	0.09	1300	4000	1.8	250	0.05	1300	4000	
F 20 3_316.9	316.9	2.8	250	0.08	1300	4000	1.6	250	0.04	1300	4000	
F 20 3_372.9	372.9	2.4	250	0.07	1300	4000	1.3	250	0.04	1300	4000	
F 20 3_419.3	419.3	2.1	250	0.06	1300	4000	1.2	250	0.03	1300	4000	
F 20 3_471.7	471.7	1.9	250	0.05	1300	4000	1.1	250	0.03	1300	4000	
F 20 3_545.3	545.3	1.7	250	0.05	1300	4000	0.92	250	0.03	1300	4000	

(—) Contactar con nuestro Servicio Técnico comunicando los datos relativos a la carga radial (sentido de giro, orientación, posición)

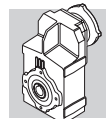


F 25

400 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 25 2_6.9	6.9	408	155	7.0	—	1840	204	195	4.4	—	2320	439
F 25 2_8.4	8.4	334	170	6.3	—	1950	167	215	4.0	—	2450	
F 25 2_9.4	9.4	299	180	5.9	—	2010	150	225	3.7	—	2540	
F 25 2_10.6	10.6	264	240	7.0	—	1850	132	305	4.4	—	2320	
F 25 2_13.0	13.0	216	255	6.1	—	1990	108	320	3.8	—	2510	
F 25 2_14.5	14.5	194	260	5.5	—	2080	97	330	3.5	—	2610	
F 25 2_16.6	16.6	168	270	5.0	—	2190	84	340	3.2	—	2760	
F 25 2_18.6	18.6	150	280	4.6	—	2270	75	350	2.9	—	2870	
F 25 2_21.8	21.8	128	280	4.0	—	2460	64	355	2.5	250	3090	
F 25 2_23.8	23.8	118	285	3.7	250	2540	59	360	2.3	300	3200	
F 25 2_27.2	27.2	103	290	3.3	250	2690	51	365	2.1	320	3400	
F 25 2_30.0	30.0	93	295	3.0	310	2800	47	370	1.9	410	3540	
F 25 2_32.2	32.2	87	295	2.8	310	2900	44	370	1.8	410	3660	
F 25 2_36.4	36.4	77	295	2.5	460	3070	38	370	1.6	600	3880	
F 25 2_40.7	40.7	69	295	2.2	560	3230	34	370	1.4	720	4080	
F 25 2_44.4	44.4	63	295	2.0	720	3360	32	370	1.3	720	4250	
F 25 3_45.6	45.6	61	340	2.4	1440	3100	31	400	1.4	1830	4030	
F 25 3_50.8	50.8	55	350	2.2	1450	3230	27.6	400	1.2	1850	4250	
F 25 3_58.3	58.3	48	365	2.0	1450	3390	24.0	400	1.1	1860	4530	
F 25 3_65.3	65.3	43	375	1.8	1450	3530	21.4	400	0.97	1870	4780	
F 25 3_76.6	76.6	37	395	1.6	1450	3730	18.3	400	0.82	1880	5140	
F 25 3_83.4	83.4	34	400	1.5	1450	3860	16.8	400	0.76	1880	5330	
F 25 3_95.5	95.5	29.3	400	1.3	1460	4130	14.7	400	0.66	1890	5660	
F 25 3_105.4	105.4	26.6	400	1.2	1470	4320	13.3	400	0.60	1890	5910	
F 25 3_113.0	113.0	24.8	400	1.1	1470	4470	12.4	400	0.56	1890	6090	
F 25 3_127.8	127.8	21.9	400	0.99	1480	4730	11.0	400	0.49	1900	6430	
F 25 3_143.0	143.0	19.6	400	0.88	1480	4980	9.8	400	0.44	1910	6500	
F 25 3_155.9	155.9	18.0	400	0.81	1480	5180	9.0	400	0.40	1910	6500	
F 25 3_174.2	174.2	16.1	400	0.72	1490	5440	8.0	400	0.36	1910	6500	
F 25 3_193.6	193.6	14.5	400	0.65	1490	5700	7.2	400	0.33	1910	6500	
F 25 3_227.8	227.8	12.3	400	0.55	1490	6120	6.1	400	0.28	1920	6500	
F 25 3_256.1	256.1	10.9	400	0.49	1490	6430	5.5	400	0.25	1920	6500	
F 25 3_288.1	288.1	9.7	400	0.44	1490	6500	4.9	400	0.22	1920	6500	
F 25 3_333.1	333.1	8.4	400	0.38	1500	6500	4.2	400	0.19	1930	6500	
F 25 4_393.9	393.9	7.1	400	0.33	1270	6500	3.6	400	0.17	1300	6500	
F 25 4_434.9	434.9	6.4	400	0.30	1290	6500	3.2	400	0.15	1300	6500	
F 25 4_466.0	466.0	6.0	400	0.28	1300	6500	3.0	400	0.14	1300	6500	
F 25 4_527.3	527.3	5.3	400	0.25	1300	6500	2.7	400	0.12	1300	6500	
F 25 4_589.7	589.7	4.7	400	0.22	1300	6500	2.4	400	0.11	1300	6500	
F 25 4_643.3	643.3	4.4	400	0.20	1300	6500	2.2	400	0.10	1300	6500	
F 25 4_718.7	718.7	3.9	400	0.18	1300	6500	1.9	400	0.09	1300	6500	
F 25 4_798.5	798.5	3.5	400	0.16	1300	6500	1.8	400	0.08	1300	6500	
F 25 4_939.8	939.8	3.0	400	0.14	1300	6500	1.5	400	0.07	1300	6500	
F 25 4_1057	1057	2.7	400	0.12	1300	6500	1.3	400	0.06	1300	6500	
F 25 4_1189	1189	2.4	400	0.11	1300	6500	1.2	400	0.05	1300	6500	
F 25 4_1374	1374	2.0	400	0.09	1300	6500	1.0	400	0.05	1300	6500	

(—) Contactar con nuestro Servicio Técnico comunicando los datos relativos a la carga radial (sentido de giro, orientación, posición)

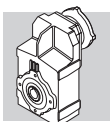


F 25

400 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 25 2_6.9	6.9	131	225	3.2	—	2690	73	255	2.0	370	3350	439
F 25 2_8.4	8.4	107	250	3.0	—	2840	60	260	1.7	590	3630	
F 25 2_9.4	9.4	96	260	2.8	—	2940	53	265	1.6	820	3780	
F 25 2_10.6	10.6	85	355	3.3	—	2680	47	395	2.0	360	3420	
F 25 2_13.0	13.0	69	370	2.8	—	2910	39	400	1.7	620	3750	
F 25 2_14.5	14.5	62	380	2.6	—	3030	35	400	1.5	940	3950	
F 25 2_16.6	16.6	54	395	2.4	—	3190	30	400	1.3	1070	4210	
F 25 2_18.6	18.6	48	400	2.1	300	3350	26.9	400	1.2	1330	4440	
F 25 2_21.8	21.8	41	400	1.8	420	3630	22.9	400	1.0	1450	4770	
F 25 2_23.8	23.8	38	400	1.7	530	3780	21.0	400	0.93	1560	4950	
F 25 2_27.2	27.2	33	400	1.5	610	4030	18.4	400	0.81	1640	5260	
F 25 2_30.0	30.0	30	400	1.3	760	4220	16.6	400	0.73	1790	5490	
F 25 2_32.2	32.2	28.0	400	1.2	760	4360	15.5	400	0.69	1790	5660	
F 25 2_36.4	36.4	24.7	400	1.1	970	4610	13.7	400	0.61	2000	5970	
F 25 2_40.7	40.7	22.1	375	0.91	1330	4950	12.3	375	0.51	2000	6360	
F 25 2_44.4	44.4	20.3	385	0.86	1230	5100	11.3	385	0.48	2000	6500	
F 25 3_45.6	45.6	19.8	400	0.89	2160	4960	11.0	400	0.49	2200	6420	
F 25 3_50.8	50.8	17.7	400	0.80	2180	5210	9.8	400	0.44	2200	6500	
F 25 3_58.3	58.3	15.4	400	0.69	2190	5540	8.6	400	0.39	2200	6500	
F 25 3_65.3	65.3	13.8	400	0.62	2200	5820	7.7	400	0.34	2200	6500	
F 25 3_76.6	76.6	11.8	400	0.53	2200	6240	6.5	400	0.29	2200	6500	
F 25 3_83.4	83.4	10.8	400	0.49	2200	6470	6.0	400	0.27	2200	6500	
F 25 3_95.5	95.5	9.4	400	0.42	2200	6500	5.2	400	0.24	2200	6500	
F 25 3_105.4	105.4	8.5	400	0.38	2200	6500	4.7	400	0.21	2200	6500	
F 25 3_113.0	113.0	8.0	400	0.36	2200	6500	4.4	400	0.20	2200	6500	
F 25 3_127.8	127.8	7.0	400	0.32	2200	6500	3.9	400	0.18	2200	6500	
F 25 3_143.0	143.0	6.3	400	0.28	2200	6500	3.5	400	0.16	2200	6500	
F 25 3_155.9	155.9	5.8	400	0.26	2200	6500	3.2	400	0.14	2200	6500	
F 25 3_174.2	174.2	5.2	400	0.23	2200	6500	2.9	400	0.13	2200	6500	
F 25 3_193.6	193.6	4.6	400	0.21	2200	6500	2.6	400	0.12	2200	6500	
F 25 3_227.8	227.8	4.0	400	0.18	2200	6500	2.2	400	0.10	2200	6500	
F 25 3_256.1	256.1	3.5	400	0.16	2200	6500	2.0	400	0.09	2200	6500	
F 25 3_288.1	288.1	3.1	400	0.14	2200	6500	1.7	400	0.08	2200	6500	
F 25 3_333.1	333.1	2.7	400	0.12	2200	6500	1.5	400	0.07	2200	6500	
F 25 4_393.9	393.9	2.3	400	0.11	1300	6500	1.3	400	0.06	1300	6500	
F 25 4_434.9	434.9	2.1	400	0.10	1300	6500	1.1	400	0.05	1300	6500	
F 25 4_466.0	466.0	1.9	400	0.09	1300	6500	1.1	400	0.05	1300	6500	
F 25 4_527.3	527.3	1.7	400	0.08	1300	6500	0.95	400	0.04	1300	6500	
F 25 4_589.7	589.7	1.5	400	0.07	1300	6500	0.85	400	0.04	1300	6500	
F 25 4_643.3	643.3	1.4	400	0.07	1300	6500	0.78	400	0.04	1300	6500	
F 25 4_718.7	718.7	1.3	400	0.06	1300	6500	0.70	400	0.03	1300	6500	
F 25 4_798.5	798.5	1.1	400	0.05	1300	6500	0.63	400	0.03	1300	6500	
F 25 4_939.8	939.8	0.96	400	0.04	1300	6500	0.53	400	0.02	1300	6500	
F 25 4_1057	1057	0.85	400	0.04	1300	6500	0.47	400	0.02	1300	6500	
F 25 4_1189	1189	0.76	400	0.04	1300	6500	0.42	400	0.02	1300	6500	
F 25 4_1374	1374	0.65	400	0.03	1300	6500	0.36	400	0.02	1300	6500	

(—) Contactar con nuestro Servicio Técnico comunicando los datos relativos a la carga radial (sentido de giro, orientación, posición)

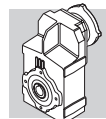


F 31

600 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 31 2_6.9	6.9	403	295	13.1	—	2710	201	360	8.0	—	3460	443
F 31 2_8.2	8.2	340	310	11.6	—	2880	170	375	7.0	—	3690	
F 31 2_9.0	9.0	311	310	10.6	—	3000	155	385	6.6	390	3810	
F 31 2_10.7	10.7	261	450	12.9	—	2790	130	525	7.5	500	3670	
F 31 2_12.7	12.7	220	475	11.5	—	2950	110	555	6.7	490	3880	
F 31 2_13.9	13.9	201	475	10.5	290	3100	100	570	6.3	650	4010	
F 31 2_16.8	16.8	167	475	8.7	510	3410	83	595	5.5	680	4310	
F 31 2_18.5	18.5	151	475	7.9	730	3580	76	600	5.0	910	4510	
F 31 2_21.1	21.1	133	475	6.9	830	3830	66	600	4.4	1030	4820	
F 31 2_23.4	23.4	120	475	6.3	1020	4020	60	600	4.0	1270	5060	
F 31 2_27.3	27.3	103	475	5.4	1100	4330	51	600	3.4	1380	5450	
F 31 2_30.1	30.1	93	475	4.9	1270	4540	46	600	3.1	1590	5710	
F 31 2_34.4	34.4	81	475	4.3	1330	4820	41	600	2.7	1660	6070	
F 31 2_37.7	37.7	74	475	3.9	1430	5030	37	600	2.5	1800	6330	
F 31 2_40.4	40.4	69	475	3.6	1440	5190	35	600	2.3	1800	6500	
F 31 2_44.6	44.6	63	475	3.3	1540	5430	31	600	2.1	1930	6500	
F 31 3_47.5	47.5	59	475	3.1	2110	5490	29.4	580	1.9	2200	6500	
F 31 3_52.1	52.1	54	485	2.9	2120	5680	26.9	600	1.8	2200	6500	
F 31 3_62.8	62.8	45	515	2.6	2120	6040	22.3	600	1.5	2200	6500	
F 31 3_69.1	69.1	41	530	2.4	2130	6250	20.3	600	1.4	2200	6500	
F 31 3_78.9	78.9	36	550	2.2	2120	6500	17.8	600	1.2	2200	6500	
F 31 3_87.4	87.4	32	570	2.1	2130	6500	16.0	600	1.1	2200	6500	
F 31 3_101.9	101.9	27.5	595	1.8	2130	6500	13.7	600	0.93	2200	6500	
F 31 3_112.5	112.5	24.9	600	1.7	2130	6500	12.4	600	0.84	2200	6500	
F 31 3_128.4	128.4	21.8	600	1.5	2140	6500	10.9	600	0.74	2200	6500	
F 31 3_140.7	140.7	19.9	600	1.3	2140	6500	9.9	600	0.67	2200	6500	
F 31 3_150.8	150.8	18.6	600	1.3	2140	6500	9.3	600	0.63	2200	6500	
F 31 3_166.8	166.8	16.8	600	1.1	2150	6500	8.4	600	0.57	2200	6500	
F 31 3_185.4	185.4	15.1	600	1.0	2160	6500	7.5	600	0.51	2200	6500	
F 31 3_202.3	202.3	13.8	600	0.94	2160	6500	6.9	600	0.47	2200	6500	
F 31 3_228.2	228.2	12.3	600	0.83	2160	6500	6.1	600	0.41	2200	6500	
F 31 3_253.6	253.6	11.0	600	0.75	2160	6500	5.5	600	0.37	2200	6500	
F 31 3_293.8	293.8	9.5	600	0.64	2170	6500	4.8	600	0.32	2200	6500	
F 31 3_332.8	332.8	8.4	600	0.57	2170	6500	4.2	600	0.28	2200	6500	
F 31 3_374.4	374.4	7.5	600	0.51	2170	6500	3.7	600	0.25	2200	6500	
F 31 4_418.9	418.9	6.7	600	0.47	1230	6500	3.3	600	0.23	1300	6500	
F 31 4_462.6	462.6	6.1	600	0.42	1250	6500	3.0	600	0.21	1300	6500	
F 31 4_527.8	527.8	5.3	600	0.37	1270	6500	2.7	600	0.19	1300	6500	
F 31 4_578.6	578.6	4.8	600	0.34	1290	6500	2.4	600	0.17	1300	6500	
F 31 4_619.9	619.9	4.5	600	0.32	1300	6500	2.3	600	0.16	1300	6500	
F 31 4_685.6	685.6	4.1	600	0.29	1300	6500	2.0	600	0.14	1300	6500	
F 31 4_762.3	762.3	3.7	600	0.26	1300	6500	1.8	600	0.13	1300	6500	
F 31 4_831.6	831.6	3.4	600	0.24	1300	6500	1.7	600	0.12	1300	6500	
F 31 4_938.2	938.2	3.0	600	0.21	1300	6500	1.5	600	0.10	1300	6500	
F 31 4_1042	1042	2.7	600	0.19	1300	6500	1.3	600	0.09	1300	6500	
F 31 4_1208	1208	2.3	600	0.16	1300	6500	1.2	600	0.08	1300	6500	
F 31 4_1368	1368	2.0	600	0.14	1300	6500	1.0	600	0.07	1300	6500	
F 31 4_1539	1539	1.8	600	0.13	1300	6500	0.91	600	0.06	1300	6500	

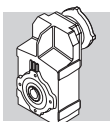
(—) Contactar con nuestro Servicio Técnico comunicando los datos relativos a la carga radial (sentido de giro, orientación, posición)



F 31

600 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 31 2_6.9	6.9	130	390	5.6	640	4120	72	390	3.1	2200	5350	443
F 31 2_8.2	8.2	109	390	4.7	990	4450	61	390	2.6	2200	5760	
F 31 2_9.0	9.0	100	390	4.3	1320	4640	55	390	2.4	2200	5980	
F 31 2_10.7	10.7	84	600	5.5	670	4280	47	600	3.1	2200	5710	
F 31 2_12.7	12.7	71	600	4.7	1020	4670	39	600	2.6	2200	6170	
F 31 2_13.9	13.9	65	600	4.3	1350	4880	36	600	2.4	2200	6440	
F 31 2_16.8	16.8	54	600	3.5	1640	5340	29.8	600	2.0	2200	6500	
F 31 2_18.5	18.5	49	600	3.2	1915	5580	27.0	600	1.8	2200	6500	
F 31 2_21.1	21.1	43	600	2.8	2040	5950	23.7	600	1.6	2200	6500	
F 31 2_23.4	23.4	38	600	2.5	2200	6230	21.4	600	1.4	2200	6500	
F 31 2_27.3	27.3	33	600	2.2	2200	6500	18.3	600	1.2	2200	6500	
F 31 2_30.1	30.1	29.9	600	2.0	2200	6500	16.6	600	1.1	2200	6500	
F 31 2_34.4	34.4	26.2	600	1.7	2200	6500	14.6	600	0.96	2200	6500	
F 31 2_37.7	37.7	23.9	600	1.6	2200	6500	13.3	600	0.88	2200	6500	
F 31 2_40.4	40.4	22.3	600	1.5	2200	6500	12.4	600	0.82	2200	6500	
F 31 2_44.6	44.6	20.2	600	1.3	2200	6500	11.2	600	0.74	2200	6500	
F 31 3_47.5	47.5	18.9	600	1.3	2200	6500	10.5	600	0.71	2200	6500	
F 31 3_52.1	52.1	17.3	600	1.2	2200	6500	9.6	600	0.65	2200	6500	
F 31 3_62.8	62.8	14.3	600	0.97	2200	6500	8.0	600	0.54	2200	6500	
F 31 3_69.1	69.1	13.0	600	0.88	2200	6500	7.2	600	0.49	2200	6500	
F 31 3_78.9	78.9	11.4	600	0.77	2200	6500	6.3	600	0.43	2200	6500	
F 31 3_87.4	87.4	10.3	600	0.70	2200	6500	5.7	600	0.39	2200	6500	
F 31 3_101.9	101.9	8.8	600	0.60	2200	6500	4.9	600	0.33	2200	6500	
F 31 3_112.5	112.5	8.0	600	0.54	2200	6500	4.4	600	0.30	2200	6500	
F 31 3_128.4	128.4	7.0	600	0.47	2200	6500	3.9	600	0.26	2200	6500	
F 31 3_140.7	140.7	6.4	600	0.43	2200	6500	3.6	600	0.24	2200	6500	
F 31 3_150.8	150.8	6.0	600	0.40	2200	6500	3.3	600	0.22	2200	6500	
F 31 3_166.8	166.8	5.4	600	0.36	2200	6500	3.0	600	0.20	2200	6500	
F 31 3_185.4	185.4	4.9	600	0.33	2200	6500	2.7	600	0.18	2200	6500	
F 31 3_202.3	202.3	4.4	600	0.30	2200	6500	2.5	600	0.17	2200	6500	
F 31 3_228.2	228.2	3.9	600	0.27	2200	6500	2.2	600	0.15	2200	6500	
F 31 3_253.6	253.6	3.5	600	0.24	2200	6500	2.0	600	0.13	2200	6500	
F 31 3_293.8	293.8	3.1	600	0.21	2200	6500	1.7	600	0.11	2200	6500	
F 31 3_332.8	332.8	2.7	600	0.18	2200	6500	1.5	600	0.10	2200	6500	
F 31 3_374.4	374.4	2.4	600	0.16	2200	6500	1.3	600	0.09	2200	6500	
F 31 4_418.9	418.9	2.1	600	0.15	1300	6500	1.2	600	0.08	1300	6500	
F 31 4_462.6	462.6	1.9	600	0.14	1300	6500	1.1	600	0.08	1300	6500	
F 31 4_527.8	527.8	1.7	600	0.12	1300	6500	0.95	600	0.07	1300	6500	
F 31 4_578.6	578.6	1.6	600	0.11	1300	6500	0.86	600	0.06	1300	6500	
F 31 4_619.9	619.9	1.5	600	0.10	1300	6500	0.81	600	0.06	1300	6500	
F 31 4_685.6	685.6	1.3	600	0.09	1300	6500	0.73	600	0.05	1300	6500	
F 31 4_762.3	762.3	1.2	600	0.08	1300	6500	0.66	600	0.05	1300	6500	
F 31 4_831.6	831.6	1.1	600	0.08	1300	6500	0.60	600	0.04	1300	6500	
F 31 4_938.2	938.2	0.96	600	0.07	1300	6500	0.53	600	0.04	1300	6500	
F 31 4_1042	1042	0.86	600	0.06	1300	6500	0.48	600	0.03	1300	6500	
F 31 4_1208	1208	0.75	600	0.05	1300	6500	0.41	600	0.03	1300	6500	
F 31 4_1368	1368	0.66	600	0.05	1300	6500	0.37	600	0.03	1300	6500	
F 31 4_1539	1539	0.58	600	0.04	1300	6500	0.32	600	0.02	1300	6500	

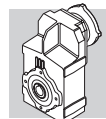


F 41

1100 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 41 2_6.7	6.7	416	460	21	—	3410	208	580	13.3	—	4290	447
F 41 2_9.1	9.1	306	515	17.4	—	3750	153	650	11.0	—	4730	
F 41 2_10.8	10.8	260	715	21	—	3310	130	900	12.9	—	4170	
F 41 2_14.6	14.6	191	805	17.0	—	3620	96	1015	10.7	—	4560	
F 41 2_17.1	17.1	164	835	15.1	—	3860	82	1055	9.5	—	4850	
F 41 2_18.9	18.9	148	860	14.0	410	4000	74	1085	8.9	500	5030	
F 41 2_24.1	24.1	116	875	11.2	650	4540	58	1100	7.0	840	5730	
F 41 2_30.1	30.1	93	875	9.0	980	5130	46	1100	5.6	1260	6470	
F 41 2_38.2	38.2	73	875	7.1	1260	5810	37	1100	4.4	1600	7330	
F 41 2_47.9	47.9	58	850	5.5	1680	6600	29.2	1070	3.4	2120	8320	
F 41 3_51.5	51.5	54	880	5.4	3030	6750	27.2	1085	3.3	3500	8500	
F 41 3_60.2	60.2	46	930	4.9	3030	7100	23.2	1100	2.9	3500	8500	
F 41 3_66.5	66.5	42	980	4.6	3030	7280	21.1	1100	2.6	3500	8500	
F 41 3_84.9	84.9	33	1065	4.0	3030	7890	16.5	1100	2.0	3500	8500	
F 41 3_106.0	106.0	26.4	1100	3.3	3040	8500	13.2	1100	1.6	3500	8500	
F 41 3_134.4	134.4	20.8	1100	2.6	3050	8500	10.4	1100	1.3	3500	8500	
F 41 3_168.7	168.7	16.6	1100	2.1	3070	8500	8.3	1100	1.0	3500	8500	
F 41 3_180.7	180.7	15.5	1100	1.9	3070	8500	7.7	1100	0.96	3500	8500	
F 41 3_198.9	198.9	14.1	1100	1.7	3080	8500	7.0	1100	0.87	3500	8500	
F 41 3_220.1	220.1	12.7	1100	1.6	3090	8500	6.4	1100	0.79	3500	8500	
F 41 3_240.1	240.1	11.7	1100	1.4	3090	8500	5.8	1100	0.72	3500	8500	
F 41 3_266.9	266.9	10.5	1100	1.3	3090	8500	5.2	1100	0.65	3500	8500	
F 41 3_296.6	296.6	9.4	1100	1.2	3090	8500	4.7	1100	0.58	3500	8500	
F 41 3_344.8	344.8	8.1	1100	1.0	3100	8500	4.1	1100	0.50	3500	8500	
F 41 4_433.7	433.7	6.5	1100	0.83	1480	8500	3.2	1100	0.41	1910	8500	
F 41 4_549.8	549.8	5.1	1100	0.65	1520	8500	2.5	1100	0.33	1940	8500	
F 41 4_690.1	690.1	4.1	1100	0.52	1540	8500	2.0	1100	0.26	1970	8500	
F 41 4_739.4	739.4	3.8	1100	0.48	1550	8500	1.9	1100	0.24	1980	8500	
F 41 4_813.8	813.8	3.4	1100	0.44	1560	8500	1.7	1100	0.22	1990	8500	
F 41 4_900.5	900.5	3.1	1100	0.40	1570	8500	1.6	1100	0.20	2000	8500	
F 41 4_982.4	982.4	2.9	1100	0.36	1570	8500	1.4	1100	0.18	2000	8500	
F 41 4_1092	1092	2.6	1100	0.33	1580	8500	1.3	1100	0.16	2010	8500	
F 41 4_1213	1213	2.3	1100	0.30	1590	8500	1.2	1100	0.15	2020	8500	
F 41 4_1411	1411	2.0	1100	0.25	1600	8500	1.0	1100	0.13	2020	8500	

(—) Contactar con nuestro Servicio Técnico comunicando los datos relativos a la carga radial (sentido de giro, orientación, posición)

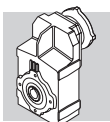


F 41

1100 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 41 2_6.7	6.7	134	670	9.9	—	4980	74	700	5.7	1760	6450	447
F 41 2_9.1	9.1	99	700	7.6	680	5660	55	700	4.2	2850	7410	
F 41 2_10.8	10.8	84	1025	9.4	480	4900	46	1100	5.6	1950	6480	
F 41 2_14.6	14.6	62	1100	7.5	860	5550	34	1100	4.1	3030	7590	
F 41 2_17.1	17.1	53	1100	6.4	1230	6060	29.2	1100	3.5	3400	8210	
F 41 2_18.9	18.9	48	1100	5.8	1760	6390	26.5	1100	3.2	3500	8500	
F 41 2_24.1	24.1	37	1100	4.5	2210	7260	20.7	1100	2.5	3500	8500	
F 41 2_30.1	30.1	29.9	1100	3.6	2630	8120	16.6	1100	2.0	3500	8500	
F 41 2_38.2	38.2	23.6	1100	2.9	2970	8500	13.1	1100	1.6	3500	8500	
F 41 2_47.9	47.9	18.8	1070	2.2	3490	8500	10.4	1070	1.2	3500	8500	
F 41 3_51.5	51.5	17.5	1100	2.2	3500	8500	9.7	1100	1.2	3500	8500	
F 41 3_60.2	60.2	14.9	1100	1.9	3500	8500	8.3	1100	1.0	3500	8500	
F 41 3_66.5	66.5	13.5	1100	1.7	3500	8500	7.5	1100	0.93	3500	8500	
F 41 3_84.9	84.9	10.6	1100	1.3	3500	8500	5.9	1100	0.73	3500	8500	
F 41 3_106.0	106.0	8.5	1100	1.1	3500	8500	4.7	1100	0.58	3500	8500	
F 41 3_134.4	134.4	6.7	1100	0.83	3500	8500	3.7	1100	0.46	3500	8500	
F 41 3_168.7	168.7	5.3	1100	0.66	3500	8500	3.0	1100	0.37	3500	8500	
F 41 3_180.7	180.7	5.0	1100	0.62	3500	8500	2.8	1100	0.34	3500	8500	
F 41 3_198.9	198.9	4.5	1100	0.56	3500	8500	2.5	1100	0.31	3500	8500	
F 41 3_220.1	220.1	4.1	1100	0.51	3500	8500	2.3	1100	0.28	3500	8500	
F 41 3_240.1	240.1	3.7	1100	0.46	3500	8500	2.1	1100	0.26	3500	8500	
F 41 3_266.9	266.9	3.4	1100	0.42	3500	8500	1.9	1100	0.23	3500	8500	
F 41 3_296.6	296.6	3.0	1100	0.38	3500	8500	1.7	1100	0.21	3500	8500	
F 41 3_344.8	344.8	2.6	1100	0.32	3500	8500	1.5	1100	0.18	3500	8500	
F 41 4_433.7	433.7	2.1	1100	0.27	2200	8500	1.2	1100	0.15	2200	8500	
F 41 4_549.8	549.8	1.6	1100	0.21	2200	8500	0.91	1100	0.12	2200	8500	
F 41 4_690.1	690.1	1.3	1100	0.17	2200	8500	0.72	1100	0.09	2200	8500	
F 41 4_739.4	739.4	1.2	1100	0.16	2200	8500	0.68	1100	0.09	2200	8500	
F 41 4_813.8	813.8	1.1	1100	0.14	2200	8500	0.61	1100	0.08	2200	8500	
F 41 4_900.5	900.5	1.0	1100	0.13	2200	8500	0.56	1100	0.07	2200	8500	
F 41 4_982.4	982.4	0.92	1100	0.12	2200	8500	0.51	1100	0.07	2200	8500	
F 41 4_1092	1092	0.82	1100	0.11	2200	8500	0.46	1100	0.06	2200	8500	
F 41 4_1213	1213	0.74	1100	0.09	2200	8500	0.41	1100	0.05	2200	8500	
F 41 4_1411	1411	0.64	1100	0.08	2200	8500	0.35	1100	0.05	2200	8500	

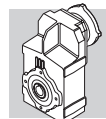
(—) Contactar con nuestro Servicio Técnico comunicando los datos relativos a la carga radial (sentido de giro, orientación, posición)



F 51

1800 Nm

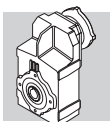
	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 51 2_7.2	7.2	389	775	33	990	4170	195	975	21	1440	5260	451
F 51 2_9.1	9.1	309	875	30	890	4400	155	1100	18.8	1320	5550	
F 51 2_11.1	11.1	252	1055	29	1460	4530	126	1330	18.5	2010	5700	
F 51 2_14.0	14.0	200	1125	25	1580	4920	100	1420	15.7	2150	6200	
F 51 2_18.8	18.8	149	1225	20	1660	5480	74	1545	12.7	2240	6900	
F 51 2_23.8	23.8	118	1310	17.0	1710	5960	59	1650	10.7	2290	7520	
F 51 2_30.0	30.0	93	1350	13.9	1760	6610	47	1700	8.7	2330	8340	
F 51 2_37.1	37.1	75	1350	11.2	1910	7350	38	1700	7.1	2410	9260	
F 51 3_48.9	48.9	57	1505	9.7	2600	7800	28.6	1800	5.8	3310	10100	
F 51 3_65.8	65.8	43	1650	7.9	2610	8640	21.3	1800	4.3	3380	11600	
F 51 3_83.2	83.2	34	1770	6.7	2630	9380	16.8	1800	3.4	3440	12000	
F 51 3_105.1	105.1	26.6	1800	5.4	2650	10400	13.3	1800	2.7	3460	12000	
F 51 3_129.9	129.9	21.6	1800	4.4	2670	11600	10.8	1800	2.2	3490	12000	
F 51 3_165.6	165.6	16.9	1800	3.4	2700	12000	8.5	1800	1.7	3500	12000	
F 51 3_202.4	202.4	13.8	1800	2.8	2710	12000	6.9	1800	1.4	3500	12000	
F 51 3_216.9	216.9	12.9	1800	2.6	2710	12000	6.5	1800	1.3	3500	12000	
F 51 3_239.8	239.8	11.7	1800	2.4	2730	12000	5.8	1800	1.2	3500	12000	
F 51 3_262.1	262.1	10.7	1800	2.2	2730	12000	5.3	1800	1.1	3500	12000	
F 51 3_285.9	285.9	9.8	1800	2.0	2730	12000	4.9	1800	0.99	3500	12000	
F 51 3_317.3	317.3	8.8	1800	1.8	2740	12000	4.4	1800	0.89	3500	12000	
F 51 3_352.5	352.5	7.9	1800	1.6	2740	12000	4.0	1800	0.80	3500	12000	
F 51 4_429.1	429.1	6.5	1800	1.4	1930	12000	3.3	1800	0.68	2200	12000	
F 51 4_530.5	530.5	5.3	1800	1.1	1970	12000	2.6	1800	0.55	2200	12000	
F 51 4_676.3	676.3	4.1	1800	0.87	2020	12000	2.1	1800	0.43	2200	12000	
F 51 4_826.4	826.4	3.4	1800	0.71	2040	12000	1.7	1800	0.35	2200	12000	
F 51 4_885.5	885.5	3.2	1800	0.66	2050	12000	1.6	1800	0.33	2200	12000	
F 51 4_979.4	979.4	2.9	1800	0.60	2060	12000	1.4	1800	0.30	2200	12000	
F 51 4_1070	1070	2.6	1800	0.55	2070	12000	1.3	1800	0.27	2200	12000	
F 51 4_1168	1168	2.4	1800	0.50	2080	12000	1.2	1800	0.25	2200	12000	
F 51 4_1296	1296	2.2	1800	0.45	2090	12000	1.1	1800	0.23	2200	12000	
F 51 4_1439	1439	1.9	1800	0.41	2100	12000	1.0	1800	0.20	2200	12000	



F 51

1800 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 51 2_7.2	7.2	125	1100	15.2	1940	6170	70	1100	8.4	3190	8140	451
F 51 2_9.1	9.1	99	1100	12.1	2450	6900	55	1100	6.7	3440	9030	
F 51 2_11.1	11.1	81	1520	13.6	2450	6660	45	1700	8.4	3190	8480	
F 51 2_14.0	14.0	64	1620	11.5	2550	7250	36	1700	6.7	3440	9500	
F 51 2_18.8	18.8	48	1700	9.0	2690	8230	26.6	1700	5.0	3500	10900	
F 51 2_23.8	23.8	38	1700	7.1	2870	9250	21.0	1700	3.9	3500	12000	
F 51 2_30.0	30.0	30	1700	5.6	2960	10300	16.6	1700	3.1	3500	12000	
F 51 2_37.1	37.1	24.2	1700	4.5	3040	11400	13.5	1700	2.5	3500	12000	
F 51 3_48.9	48.9	18.4	1800	3.7	3500	12000	10.2	1800	2.1	3500	12000	
F 51 3_65.8	65.8	13.7	1800	2.8	3500	12000	7.6	1800	1.5	3500	12000	
F 51 3_83.2	83.2	10.8	1800	2.2	3500	12000	6.0	1800	1.2	3500	12000	
F 51 3_105.1	105.1	8.6	1800	1.7	3500	12000	4.8	1800	0.96	3500	12000	
F 51 3_129.9	129.9	6.9	1800	1.4	3500	12000	3.8	1800	0.78	3500	12000	
F 51 3_165.6	165.6	5.4	1800	1.1	3500	12000	3.0	1800	0.61	3500	12000	
F 51 3_202.4	202.4	4.4	1800	0.90	3500	12000	2.5	1800	0.50	3500	12000	
F 51 3_216.9	216.9	4.2	1800	0.84	3500	12000	2.3	1800	0.47	3500	12000	
F 51 3_239.8	239.8	3.8	1800	0.76	3500	12000	2.1	1800	0.42	3500	12000	
F 51 3_262.1	262.1	3.4	1800	0.70	3500	12000	1.9	1800	0.39	3500	12000	
F 51 3_285.9	285.9	3.1	1800	0.64	3500	12000	1.7	1800	0.35	3500	12000	
F 51 3_317.3	317.3	2.8	1800	0.57	3500	12000	1.6	1800	0.32	3500	12000	
F 51 3_352.5	352.5	2.6	1800	0.52	3500	12000	1.4	1800	0.29	3500	12000	
F 51 4_429.1	429.1	2.1	1800	0.44	2200	12000	1.2	1800	0.24	2200	12000	
F 51 4_530.5	530.5	1.7	1800	0.36	2200	12000	0.94	1800	0.20	2200	12000	
F 51 4_676.3	676.3	1.3	1800	0.28	2200	12000	0.74	1800	0.15	2200	12000	
F 51 4_826.4	826.4	1.1	1800	0.23	2200	12000	0.61	1800	0.13	2200	12000	
F 51 4_885.5	885.5	1.0	1800	0.21	2200	12000	0.56	1800	0.12	2200	12000	
F 51 4_979.4	979.4	0.92	1800	0.19	2200	12000	0.51	1800	0.11	2200	12000	
F 51 4_1070	1070	0.84	1800	0.18	2200	12000	0.47	1800	0.10	2200	12000	
F 51 4_1168	1168	0.77	1800	0.16	2200	12000	0.43	1800	0.09	2200	12000	
F 51 4_1296	1296	0.69	1800	0.15	2200	12000	0.39	1800	0.08	2200	12000	
F 51 4_1439	1439	0.63	1800	0.13	2200	12000	0.35	1800	0.07	2200	12000	

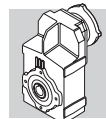


F 60

2900 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 60 3_9.0	9.0	311	920	32	—	13300	156	1160	20	—	16500	455
F 60 3_9.7	9.7	289	1000	33	—	13600	144	1250	20	—	16700	
F 60 3_11.8	11.8	237	1030	28	—	14600	119	1300	17.4	—	17800	
F 60 3_12.7	12.7	220	1110	28	—	14700	110	1400	17.4	—	18000	
F 60 3_14.5	14.5	193	1110	24	—	15500	97	1400	15.3	—	19000	
F 60 3_15.7	15.7	178	1200	24	—	15600	89	1500	15.1	—	19200	
F 60 3_19.1	19.1	147	1200	19.9	—	16800	73	1500	12.4	—	20000	
F 60 3_20.7	20.7	135	1300	19.9	—	17000	68	1640	12.5	—	20000	
F 60 3_23.5	23.5	119	1260	17.0	—	17900	60	1590	10.7	—	20000	
F 60 3_25.4	25.4	110	1370	17.1	—	18100	55	1720	10.7	—	20000	
F 60 3_29.6	29.6	95	2750	29	820	15900	47	2900	15.5	2630	20000	
F 60 3_32.1	32.1	87	2800	28	1290	16200	44	2900	14.3	3260	20000	
F 60 3_38.8	38.8	72	2900	24	1260	17500	36	2900	11.8	3480	20000	
F 60 3_42.1	42.1	67	2900	22	1820	17900	33	2900	10.9	3720	20000	
F 60 3_47.8	47.8	59	2900	19.2	1770	19100	29.3	2900	9.6	3730	20000	
F 60 3_51.8	51.8	54	2900	17.7	2290	19500	27.0	2900	8.9	3830	20000	
F 60 3_63.0	63.0	44	2900	14.6	2310	20000	22.2	2900	7.3	3850	20000	
F 60 3_68.3	68.3	41	2900	13.4	2790	20000	20.5	2900	6.7	3940	20000	
F 60 3_77.6	77.6	36	2900	11.8	2620	20000	18.0	2900	5.9	3920	20000	
F 60 3_84.0	84.0	33	2900	10.9	2960	20000	16.7	2900	5.5	4010	20000	
F 60 3_98.2	98.2	28.5	2900	9.3	2910	20000	14.3	2900	4.7	3980	20000	
F 60 3_106.4	106.4	26.3	2900	8.6	3020	20000	13.2	2900	4.3	4070	20000	
F 60 3_120.5	120.5	23.2	2900	7.6	2970	20000	11.6	2900	3.8	4030	20000	
F 60 3_130.5	130.5	21.5	2900	7.0	3060	20000	10.7	2900	3.5	4110	20000	
F 60 3_150.4	150.4	18.6	2900	6.1	3010	20000	9.3	2900	3.0	4060	20000	
F 60 3_162.9	162.9	17.2	2900	5.6	3090	20000	8.6	2900	2.8	4140	20000	
F 60 3_185.9	185.9	15.1	2900	4.9	3050	20000	7.5	2900	2.5	4100	20000	
F 60 3_201.4	201.4	13.9	2900	4.6	3130	20000	7.0	2900	2.3	4180	20000	
F 60 3_217.6	217.6	12.9	2900	4.2	3070	20000	6.4	2900	2.1	4120	20000	
F 60 3_235.8	235.8	11.9	2900	3.9	3140	20000	5.9	2900	1.9	4190	20000	
F 60 3_259.1	259.1	10.8	2900	3.5	3080	20000	5.4	2900	1.8	4130	20000	
F 60 3_280.7	280.7	10.0	2900	3.3	3150	20000	5.0	2900	1.6	4200	20000	
F 60 4_315.4	315.4	8.9	2900	3.0	3500	20000	4.4	2900	1.5	3500	20000	
F 60 4_341.7	341.7	8.2	2900	2.8	3500	20000	4.1	2900	1.4	3500	20000	
F 60 4_399.3	399.3	7.0	2900	2.4	3500	20000	3.5	2900	1.2	3500	20000	
F 60 4_432.6	432.6	6.5	2900	2.2	3500	20000	3.2	2900	1.1	3500	20000	
F 60 4_489.8	489.8	5.7	2900	1.9	3500	20000	2.9	2900	0.96	3500	20000	
F 60 4_530.7	530.7	5.3	2900	1.8	3500	20000	2.6	2900	0.89	3500	20000	
F 60 4_611.4	611.4	4.6	2900	1.5	3500	20000	2.3	2900	0.77	3500	20000	
F 60 4_662.4	662.4	4.2	2900	1.4	3500	20000	2.1	2900	0.71	3500	20000	
F 60 4_756.0	756.0	3.7	2900	1.2	3500	20000	1.9	2900	0.62	3500	20000	
F 60 4_819.0	819.0	3.4	2900	1.1	3500	20000	1.7	2900	0.57	3500	20000	
F 60 4_885.1	885.1	3.2	2900	1.1	3500	20000	1.6	2900	0.53	3500	20000	
F 60 4_958.9	958.9	2.9	2900	0.98	3500	20000	1.5	2900	0.49	3500	20000	
F 60 4_1054	1054	2.7	2900	0.89	3500	20000	1.3	2900	0.45	3500	20000	
F 60 4_1141	1141	2.5	2900	0.83	3500	20000	1.2	2900	0.41	3500	20000	

(—) Contactar con nuestro Servicio Técnico comunicando los datos relativos a la carga radial (sentido de giro, orientación, posición)

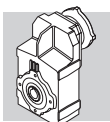


F 60

2900 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 60 3_9.0	9.0	100	1340	15.1	—	18800	56	1630	10.2	—	20000	455
F 60 3_9.7	9.7	93	1460	15.3	—	19000	52	1780	10.4	—	20000	
F 60 3_11.8	11.8	76	1500	12.9	—	20000	42	1830	8.8	—	20000	
F 60 3_12.7	12.7	71	1620	13.0	—	20000	39	1900	8.4	600	20000	
F 60 3_14.5	14.5	62	1620	11.4	—	20000	34	1900	7.4	490	20000	
F 60 3_15.7	15.7	57	1750	11.3	—	20000	32	1900	6.8	1630	20000	
F 60 3_19.1	19.1	47	1750	9.3	—	20000	26.2	1900	5.6	1660	20000	
F 60 3_20.7	20.7	43	1900	9.3	—	20000	24.2	1900	5.2	2700	20000	
F 60 3_23.5	23.5	38	1840	8.0	—	20000	21.3	1900	4.6	2340	20000	
F 60 3_25.4	25.4	35	1900	7.6	620	20000	19.7	1900	4.2	3330	20000	
F 60 3_29.6	29.6	30	2900	10.0	4220	20000	16.9	2900	5.5	4700	20000	
F 60 3_32.1	32.1	28.0	2900	9.2	4350	20000	15.6	2900	5.1	4700	20000	
F 60 3_38.8	38.8	23.2	2900	7.6	4420	20000	12.9	2900	4.2	4700	20000	
F 60 3_42.1	42.1	21.4	2900	7.0	4530	20000	11.9	2900	3.9	4700	20000	
F 60 3_47.8	47.8	18.8	2900	6.2	4530	20000	10.5	2900	3.4	4700	20000	
F 60 3_51.8	51.8	17.4	2900	5.7	4640	20000	9.7	2900	3.2	4700	20000	
F 60 3_63.0	63.0	14.3	2900	4.7	4660	20000	7.9	2900	2.6	4700	20000	
F 60 3_68.3	68.3	13.2	2900	4.3	4700	20000	7.3	2900	2.4	4700	20000	
F 60 3_77.6	77.6	11.6	2900	3.8	4700	20000	6.4	2900	2.1	4700	20000	
F 60 3_84.0	84.0	10.7	2900	3.5	4700	20000	6.0	2900	1.9	4700	20000	
F 60 3_98.2	98.2	9.2	2900	3.0	4700	20000	5.1	2900	1.7	4700	20000	
F 60 3_106.4	106.4	8.5	2900	2.8	4700	20000	4.7	2900	1.5	4700	20000	
F 60 3_120.5	120.5	7.5	2900	2.4	4700	20000	4.1	2900	1.4	4700	20000	
F 60 3_130.5	130.5	6.9	2900	2.3	4700	20000	3.8	2900	1.3	4700	20000	
F 60 3_150.4	150.4	6.0	2900	2.0	4700	20000	3.3	2900	1.1	4700	20000	
F 60 3_162.9	162.9	5.5	2900	1.8	4700	20000	3.1	2900	1.0	4700	20000	
F 60 3_185.9	185.9	4.8	2900	1.6	4700	20000	2.7	2900	0.88	4700	20000	
F 60 3_201.4	201.4	4.5	2900	1.5	4700	20000	2.5	2900	0.81	4700	20000	
F 60 3_217.6	217.6	4.1	2900	1.4	4700	20000	2.3	2900	0.75	4700	20000	
F 60 3_235.8	235.8	3.8	2900	1.3	4700	20000	2.1	2900	0.69	4700	20000	
F 60 3_259.1	259.1	3.5	2900	1.1	4700	20000	1.9	2900	0.63	4700	20000	
F 60 3_280.7	280.7	3.2	2900	1.1	4700	20000	1.8	2900	0.58	4700	20000	
F 60 4_315.4	315.4	2.9	2900	0.96	3500	20000	1.6	2900	0.53	3500	20000	
F 60 4_341.7	341.7	2.6	2900	0.89	3500	20000	1.5	2900	0.49	3500	20000	
F 60 4_399.3	399.3	2.3	2900	0.76	3500	20000	1.3	2900	0.42	3500	20000	
F 60 4_432.6	432.6	2.1	2900	0.70	3500	20000	1.2	2900	0.39	3500	20000	
F 60 4_489.8	489.8	1.8	2900	0.62	3500	20000	1.0	2900	0.34	3500	20000	
F 60 4_530.7	530.7	1.7	2900	0.57	3500	20000	0.94	2900	0.32	3500	20000	
F 60 4_611.4	611.4	1.5	2900	0.50	3500	20000	0.82	2900	0.28	3500	20000	
F 60 4_662.4	662.4	1.4	2900	0.46	3500	20000	0.75	2900	0.25	3500	20000	
F 60 4_756.0	756.0	1.2	2900	0.40	3500	20000	0.66	2900	0.22	3500	20000	
F 60 4_819.0	819.0	1.1	2900	0.37	3500	20000	0.61	2900	0.21	3500	20000	
F 60 4_885.1	885.1	1.0	2900	0.34	3500	20000	0.56	2900	0.19	3500	20000	
F 60 4_958.9	958.9	0.94	2900	0.32	3500	20000	0.52	2900	0.18	3500	20000	
F 60 4_1054	1054	0.85	2900	0.29	3500	20000	0.47	2900	0.16	3500	20000	
F 60 4_1141	1141	0.79	2900	0.27	3500	20000	0.44	2900	0.15	3500	20000	

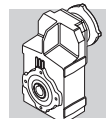
(—) Contactar con nuestro Servicio Técnico comunicando los datos relativos a la carga radial (sentido de giro, orientación, posición)



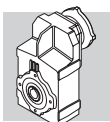
F 70

5000 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 70 3_10.0	10.0	280	2600	82	1410	14800	140	3200	51	1750	18200	459
F 70 3_10.9	10.9	257	2800	81	1510	14700	128	3450	50	1840	18100	
F 70 3_12.8	12.8	219	2900	72	860	15700	109	3600	44	880	19300	
F 70 3_13.9	13.9	201	3150	72	810	15600	101	3900	44	880	19100	
F 70 3_16.3	16.3	172	3250	63	570	16600	86	4000	39	710	20500	
F 70 3_17.7	17.7	158	3550	63	430	16400	79	4350	39	630	20200	
F 70 3_20.9	20.9	134	3450	52	690	18000	67	4000	30	2090	22700	
F 70 3_22.6	22.6	124	3750	52	640	17800	62	4350	30	2010	22500	
F 70 3_24.6	24.6	114	3550	46	560	19000	57	4000	26	2510	24200	
F 70 3_27.7	27.7	101	3750	43	5070	19600	51	4650	27	6410	24100	
F 70 3_30.0	30.0	93	4050	43	5080	19400	47	5000	26	6420	23900	
F 70 3_35.4	35.4	79	4150	37	5070	20900	40	5000	22	6440	25900	
F 70 3_38.4	38.4	73	4500	37	5060	20700	36	5000	21	6540	26500	
F 70 3_45.2	45.2	62	4600	32	5080	22200	31	5000	17.5	6590	28700	
F 70 3_49.0	49.0	57	4600	30	5170	22700	28.6	5000	16.1	6680	29300	
F 70 3_57.7	57.7	49	5000	27	5090	23800	24.3	5000	13.7	6680	31600	
F 70 3_62.5	62.5	45	5000	25	5170	24300	22.4	5000	12.7	6760	32300	
F 70 3_67.9	67.9	41	5000	23	5110	25500	20.6	5000	11.6	6710	33600	
F 70 3_73.6	73.6	38	5000	21	5190	26100	19.0	5000	10.7	6790	34400	
F 70 3_85.4	85.4	33	5000	18.5	5190	28000	16.4	5000	9.3	6780	35000	
F 70 3_92.5	92.5	30	5000	17.1	5260	28700	15.1	5000	8.5	6860	35000	
F 70 3_101.2	101.2	27.7	5000	15.6	5220	30000	13.8	5000	7.8	6820	35000	
F 70 3_109.6	109.6	25.5	5000	14.4	5290	30700	12.8	5000	7.2	6890	35000	
F 70 3_122.7	122.7	22.8	5000	12.9	5250	32300	11.4	5000	6.4	6850	35000	
F 70 3_133.0	133.0	21.1	5000	11.9	5320	33100	10.5	5000	5.9	6920	35000	
F 70 3_153.8	153.8	18.2	5000	10.3	5280	35000	9.1	5000	5.1	6880	35000	
F 70 3_166.7	166.7	16.8	5000	9.5	5350	35000	8.4	5000	4.7	6950	35000	
F 70 3_180.9	180.9	15.5	5000	8.7	5310	35000	7.7	5000	4.4	6910	35000	
F 70 3_196.0	196.0	14.3	5000	8.1	5370	35000	7.1	5000	4.0	6970	35000	
F 70 4_216.5	216.5	12.9	5000	7.5	2130	35000	6.5	5000	3.7	2860	35000	
F 70 4_234.6	234.6	11.9	5000	6.9	2130	35000	6.0	5000	3.5	2860	35000	
F 70 4_280.9	280.9	10.0	5000	5.8	2200	35000	5.0	5000	2.9	2940	35000	
F 70 4_304.3	304.3	9.2	5000	5.3	2200	35000	4.6	5000	2.7	2940	35000	
F 70 4_372.5	372.5	7.5	5000	4.4	2260	35000	3.8	5000	2.2	3000	35000	
F 70 4_403.5	403.5	6.9	5000	4.0	2260	35000	3.5	5000	2.0	3000	35000	
F 70 4_471.2	471.2	5.9	5000	3.4	2300	35000	3.0	5000	1.7	3040	35000	
F 70 4_510.4	510.4	5.5	5000	3.2	2300	35000	2.7	5000	1.6	3040	35000	
F 70 4_606.8	606.8	4.6	5000	2.7	2340	35000	2.3	5000	1.3	3070	35000	
F 70 4_657.4	657.4	4.3	5000	2.5	2340	35000	2.1	5000	1.2	3070	35000	
F 70 4_759.0	759.0	3.7	5000	2.1	2360	35000	1.8	5000	1.1	3090	35000	
F 70 4_822.2	822.2	3.4	5000	2.0	2360	35000	1.7	5000	1.0	3090	35000	
F 70 4_899.4	899.4	3.1	5000	1.8	2370	35000	1.6	5000	0.90	3110	35000	
F 70 4_974.4	974.4	2.9	5000	1.7	2370	35000	1.4	5000	0.83	3110	35000	
F 70 4_1091	1091	2.6	5000	1.5	2390	35000	1.3	5000	0.74	3120	35000	
F 70 4_1182	1182	2.4	5000	1.4	2390	35000	1.2	5000	0.69	3120	35000	
F 70 4_1368	1368	2.0	5000	1.2	2400	35000	1.0	5000	0.59	3130	35000	
F 70 4_1481	1481	1.9	5000	1.1	2400	35000	0.95	5000	0.55	3130	35000	
F 70 4_1585	1585	1.8	5000	1.0	2410	35000	0.88	5000	0.51	3140	35000	
F 70 4_1717	1717	1.6	5000	0.95	2410	35000	0.82	5000	0.47	3140	35000	
F 70 4_2019	2019	1.4	5000	0.80	2420	35000	0.69	5000	0.40	3150	35000	
F 70 4_2188	2188	1.3	5000	0.74	2420	35000	0.64	5000	0.37	3150	35000	

**F 70****5000 Nm**

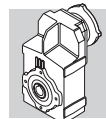
	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 70 3_10.0	10.0	90	3200	33	4870	21700	50	3200	18.1	7000	27000	459
F 70 3_10.9	10.9	83	3450	32	4970	21700	46	3450	17.9	7000	27200	
F 70 3_12.8	12.8	70	3850	31	2540	22500	39	3600	15.9	7000	28300	
F 70 3_13.9	13.9	65	4200	31	2380	22400	36	3900	15.8	7000	28300	
F 70 3_16.3	16.3	55	4000	25	3830	24500	31	4000	13.9	7000	30700	
F 70 3_17.7	17.7	51	4350	25	3750	24400	28.2	4350	13.9	7000	30800	
F 70 3_20.9	20.9	43	4000	19.5	5210	27000	23.9	4000	10.8	7000	33700	
F 70 3_22.6	22.6	40	4350	19.6	5130	26900	22.1	4350	10.9	7000	33800	
F 70 3_24.6	24.6	37	4000	16.5	5630	28700	20.3	4000	9.2	7000	35000	
F 70 3_27.7	27.7	32	5000	18.4	7000	28100	18.1	4650	9.5	7000	35000	
F 70 3_30.0	30.0	30	5000	16.9	7000	28800	16.7	5000	9.4	7000	35000	
F 70 3_35.4	35.4	25.4	5000	14.4	7000	31000	14.1	5000	8.0	7000	35000	
F 70 3_38.4	38.4	23.4	5000	13.2	7000	31700	13.0	5000	7.4	7000	35000	
F 70 3_45.2	45.2	19.9	5000	11.2	7000	34100	11.1	5000	6.2	7000	35000	
F 70 3_49.0	49.0	18.4	5000	10.4	7000	34900	10.2	5000	5.8	7000	35000	
F 70 3_57.7	57.7	15.6	5000	8.8	7000	35000	8.7	5000	4.9	7000	35000	
F 70 3_62.5	62.5	14.4	5000	8.1	7000	35000	8.0	5000	4.5	7000	35000	
F 70 3_67.9	67.9	13.3	5000	7.5	7000	35000	7.4	5000	4.2	7000	35000	
F 70 3_73.6	73.6	12.2	5000	6.9	7000	35000	6.8	5000	3.8	7000	35000	
F 70 3_85.4	85.4	10.5	5000	6.0	7000	35000	5.9	5000	3.3	7000	35000	
F 70 3_92.5	92.5	9.7	5000	5.5	7000	35000	5.4	5000	3.1	7000	35000	
F 70 3_101.2	101.2	8.9	5000	5.0	7000	35000	4.9	5000	2.8	7000	35000	
F 70 3_109.6	109.6	8.2	5000	4.6	7000	35000	4.6	5000	2.6	7000	35000	
F 70 3_122.7	122.7	7.3	5000	4.1	7000	35000	4.1	5000	2.3	7000	35000	
F 70 3_133.0	133.0	6.8	5000	3.8	7000	35000	3.8	5000	2.1	7000	35000	
F 70 3_153.8	153.8	5.9	5000	3.3	7000	35000	3.3	5000	1.8	7000	35000	
F 70 3_166.7	166.7	5.4	5000	3.0	7000	35000	3.0	5000	1.7	7000	35000	
F 70 3_180.9	180.9	5.0	5000	2.8	7000	35000	2.8	5000	1.6	7000	35000	
F 70 3_196.0	196.0	4.6	5000	2.6	7000	35000	2.6	5000	1.4	7000	35000	
F 70 4_216.5	216.5	4.2	5000	2.4	3430	35000	2.3	5000	1.3	3500	35000	
F 70 4_234.6	234.6	3.8	5000	2.2	3430	35000	2.1	5000	1.2	3500	35000	
F 70 4_280.9	280.9	3.2	5000	1.9	3500	35000	1.8	5000	1.0	3500	35000	
F 70 4_304.3	304.3	3.0	5000	1.7	3500	35000	1.6	5000	0.95	3500	35000	
F 70 4_372.5	372.5	2.4	5000	1.4	3500	35000	1.3	5000	0.78	3500	35000	
F 70 4_403.5	403.5	2.2	5000	1.3	3500	35000	1.2	5000	0.72	3500	35000	
F 70 4_471.2	471.2	1.9	5000	1.1	3500	35000	1.1	5000	0.62	3500	35000	
F 70 4_510.4	510.4	1.8	5000	1.0	3500	35000	0.98	5000	0.57	3500	35000	
F 70 4_606.8	606.8	1.5	5000	0.86	3500	35000	0.82	5000	0.48	3500	35000	
F 70 4_657.4	657.4	1.4	5000	0.79	3500	35000	0.76	5000	0.44	3500	35000	
F 70 4_759.0	759.0	1.2	5000	0.69	3500	35000	0.66	5000	0.38	3500	35000	
F 70 4_822.2	822.2	1.1	5000	0.63	3500	35000	0.61	5000	0.35	3500	35000	
F 70 4_899.4	899.4	1.0	5000	0.58	3500	35000	0.56	5000	0.32	3500	35000	
F 70 4_974.4	974.4	0.92	5000	0.54	3500	35000	0.51	5000	0.30	3500	35000	
F 70 4_1091	1091	0.82	5000	0.48	3500	35000	0.46	5000	0.27	3500	35000	
F 70 4_1182	1182	0.76	5000	0.44	3500	35000	0.42	5000	0.25	3500	35000	
F 70 4_1368	1368	0.66	5000	0.38	3500	35000	0.37	5000	0.21	3500	35000	
F 70 4_1481	1481	0.61	5000	0.35	3500	35000	0.34	5000	0.20	3500	35000	
F 70 4_1585	1585	0.57	5000	0.33	3500	35000	0.32	5000	0.18	3500	35000	
F 70 4_1717	1717	0.52	5000	0.30	3500	35000	0.29	5000	0.17	3500	35000	
F 70 4_2019	2019	0.45	5000	0.26	3500	35000	0.25	5000	0.14	3500	35000	
F 70 4_2188	2188	0.41	5000	0.24	3500	35000	0.23	5000	0.13	3500	35000	



F 80

8000 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 80 3_10.3	10.3	272	3250	100	610	17200	136	4100	63	220	21800	462
F 80 3_11.2	11.2	250	3520	99	620	17800	125	4440	63	230	21700	
F 80 3_12.9	12.9	217	3560	87	670	18900	109	4480	55	350	23100	
F 80 3_14.0	14.0	200	3850	87	700	18800	100	4860	55	310	23000	
F 80 3_16.2	16.2	173	3760	73	760	20300	86	4740	46	430	24800	
F 80 3_17.6	17.6	159	4000	72	730	20300	80	5140	46	410	24700	
F 80 3_20.3	20.3	138	4060	63	780	21700	69	5120	40	440	26500	
F 80 3_22.0	22.0	127	4400	63	780	21600	64	5540	40	470	26400	
F 80 3_25.2	25.2	111	4230	53	700	23300	56	5330	33	360	28500	
F 80 3_28.8	28.8	97	6550	72	4590	20500	49	8000	44	5890	25400	
F 80 3_31.3	31.3	89	7100	72	4590	20000	45	8000	40	6040	26000	
F 80 3_36.0	36.0	78	7250	64	4560	21500	39	8000	35	6110	28100	
F 80 3_39.0	39.0	72	6700	54	4890	23000	36	8000	32	6240	28800	
F 80 3_45.3	45.3	62	7900	55	4440	22700	31	8000	28	6240	31100	
F 80 3_49.1	49.1	57	8000	52	4750	23200	28.5	8000	26	6360	31900	
F 80 3_56.7	56.7	49	8000	45	4780	25200	24.7	8000	22	6390	34300	
F 80 3_61.5	61.5	46	8000	41	4890	25800	22.8	8000	21	6500	35100	
F 80 3_70.4	70.4	40	8000	36	4850	27800	19.9	8000	18.0	6460	37500	
F 80 3_76.3	76.3	37	8000	33	4950	28500	18.3	8000	16.6	6560	38400	
F 80 3_85.2	85.2	33	8000	30	4940	30300	16.4	8000	14.8	6550	40500	
F 80 3_92.3	92.3	30	8000	27	5040	31000	15.2	8000	13.7	6640	41500	
F 80 3_105.0	105.0	26.7	8000	24	5000	33200	13.3	8000	12.0	6610	44000	
F 80 3_113.8	113.8	24.6	8000	22	5090	34000	12.3	8000	11.1	6700	45000	
F 80 3_122.5	122.5	22.9	8000	21	5020	35400	11.4	8000	10.3	6630	45000	
F 80 3_132.7	132.7	21.1	8000	19.1	5110	36200	10.6	8000	9.5	6720	45000	
F 80 3_147.9	147.9	18.9	8000	17.1	5060	38200	9.5	8000	8.6	6660	45000	
F 80 3_160.2	160.2	17.5	8000	15.8	5140	39100	8.7	8000	7.9	6750	45000	
F 80 3_184.6	184.6	15.2	8000	13.7	5090	41800	7.6	8000	6.9	6700	45000	
F 80 3_200.0	200.0	14.0	8000	12.7	5180	42800	7.0	8000	6.3	6780	45000	
F 80 4_218.5	218.5	12.8	8000	11.9	1020	45000	6.4	8000	5.9	2400	45000	
F 80 4_273.9	273.9	10.2	8000	9.5	1470	45000	5.1	8000	4.7	2680	45000	
F 80 4_296.7	296.7	9.4	8000	8.8	1470	45000	4.7	8000	4.4	2680	45000	
F 80 4_353.7	353.7	7.9	8000	7.3	1850	45000	4.0	8000	3.7	2770	45000	
F 80 4_383.2	383.2	7.3	8000	6.8	1850	45000	3.7	8000	3.4	2770	45000	
F 80 4_451.5	451.5	6.2	8000	5.8	2040	45000	3.1	8000	2.9	2820	45000	
F 80 4_489.1	489.1	5.7	8000	5.3	2040	45000	2.9	8000	2.7	2820	45000	
F 80 4_563.9	563.9	5.0	8000	4.6	2130	45000	2.5	8000	2.3	2860	45000	
F 80 4_610.9	610.9	4.6	8000	4.3	2130	45000	2.3	8000	2.1	2860	45000	
F 80 4_714.9	714.9	3.9	8000	3.6	2160	45000	2.0	8000	1.8	2890	45000	
F 80 4_774.4	774.4	3.6	8000	3.4	2160	45000	1.8	8000	1.7	2890	45000	
F 80 4_897.3	897.3	3.1	8000	2.9	2200	45000	1.6	8000	1.4	2930	45000	
F 80 4_972.0	972.0	2.9	8000	2.7	2200	45000	1.4	8000	1.3	2930	45000	
F 80 4_1058	1058	2.6	8000	2.5	2210	45000	1.3	8000	1.2	2950	45000	
F 80 4_1146	1146	2.4	8000	2.3	2210	45000	1.2	8000	1.1	2950	45000	
F 80 4_1277	1277	2.2	8000	2.0	2230	45000	1.1	8000	1.0	2960	45000	
F 80 4_1384	1384	2.0	8000	1.9	2230	45000	1.0	8000	0.94	2960	45000	
F 80 4_1578	1578	1.8	8000	1.6	2240	45000	0.89	8000	0.82	2970	45000	
F 80 4_1709	1709	1.6	8000	1.5	2240	45000	0.82	8000	0.76	2970	45000	
F 80 4_1834	1834	1.5	8000	1.4	2250	45000	0.76	8000	0.71	2980	45000	
F 80 4_1987	1987	1.4	8000	1.3	2250	45000	0.70	8000	0.65	2980	45000	

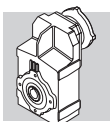


F 80

8000 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 80 3_10.3	10.3	87	4740	47	—	24700	49	5770	32	—	29300	462
F 80 3_11.2	11.2	80	5140	47	—	24600	45	6250	32	—	29200	
F 80 3_12.9	12.9	70	5200	41	—	26200	39	6320	28	—	31100	
F 80 3_14.0	14.0	64	5620	41	—	26100	36	6800	27	—	31000	
F 80 3_16.2	16.2	56	5490	34	—	28200	31	6250	22	1540	34200	
F 80 3_17.6	17.6	51	5960	34	—	28100	28.4	6800	22	1410	30000	
F 80 3_20.3	20.3	44	5930	30	—	30100	24.6	6250	17.4	3710	37300	
F 80 3_22.0	22.0	41	6420	30	—	30000	22.7	6800	17.5	3590	37200	
F 80 3_25.2	25.2	36	6175	25	—	32400	19.8	6250	14.0	4660	40500	
F 80 3_28.8	28.8	31	8000	28	7000	31000	17.4	8000	15.7	7000	39600	
F 80 3_31.3	31.3	28.8	8000	26	7000	31700	16.0	8000	14.4	7000	40600	
F 80 3_36.0	36.0	25.0	8000	23	7000	34100	13.9	8000	12.6	7000	43300	
F 80 3_39.0	39.0	23.1	8000	21	7000	34900	12.8	8000	11.6	7000	44300	
F 80 3_45.3	45.3	19.9	8000	18.0	7000	37500	11.0	8000	10.0	7000	45000	
F 80 3_49.1	49.1	18.3	8000	16.6	7000	38400	10.2	8000	9.2	7000	45000	
F 80 3_56.7	56.7	15.9	8000	14.3	7000	41100	8.8	8000	8.0	7000	45000	
F 80 3_61.5	61.5	14.6	8000	13.2	7000	42000	8.1	8000	7.3	7000	45000	
F 80 3_70.4	70.4	12.8	8000	11.6	7000	44700	7.1	8000	6.4	7000	45000	
F 80 3_76.3	76.3	11.8	8000	10.7	7000	45000	6.6	8000	5.9	7000	45000	
F 80 3_85.2	85.2	10.6	8000	9.5	7000	45000	5.9	8000	5.3	7000	45000	
F 80 3_92.3	92.3	9.8	8000	8.8	7000	45000	5.4	8000	4.9	7000	45000	
F 80 3_105.0	105.0	8.6	8000	7.7	7000	45000	4.8	8000	4.3	7000	45000	
F 80 3_113.8	113.8	7.9	8000	7.1	7000	45000	4.4	8000	4.0	7000	45000	
F 80 3_122.5	122.5	7.3	8000	6.6	7000	45000	4.1	8000	3.7	7000	45000	
F 80 3_132.7	132.7	6.8	8000	6.1	7000	45000	3.8	8000	3.4	7000	45000	
F 80 3_147.9	147.9	6.1	8000	5.5	7000	45000	3.4	8000	3.1	7000	45000	
F 80 3_160.2	160.2	5.6	8000	5.1	7000	45000	3.1	8000	2.8	7000	45000	
F 80 3_184.6	184.6	4.9	8000	4.4	7000	45000	2.7	8000	2.4	7000	45000	
F 80 3_200.0	200.0	4.5	8000	4.1	7000	45000	2.5	8000	2.3	7000	45000	
F 80 4_218.5	218.5	4.1	8000	3.8	3130	45000	2.3	8000	2.1	3500	45000	
F 80 4_273.9	273.9	3.3	8000	3.0	3240	45000	1.8	8000	1.7	3500	45000	
F 80 4_296.7	296.7	3.0	8000	2.8	3240	45000	1.7	8000	1.6	3500	45000	
F 80 4_353.7	353.7	2.5	8000	2.4	3330	45000	1.4	8000	1.3	3500	45000	
F 80 4_383.2	383.2	2.3	8000	2.2	3330	45000	1.3	8000	1.2	3500	45000	
F 80 4_451.5	451.5	2.0	8000	1.8	3380	45000	1.1	8000	1.0	3500	45000	
F 80 4_489.1	489.1	1.8	8000	1.7	3380	45000	1.0	8000	0.95	3500	45000	
F 80 4_563.9	563.9	1.6	8000	1.5	3420	45000	0.89	8000	0.82	3500	45000	
F 80 4_610.9	610.9	1.5	8000	1.4	3420	45000	0.82	8000	0.76	3500	45000	
F 80 4_714.9	714.9	1.3	8000	1.2	3460	45000	0.70	8000	0.65	3500	45000	
F 80 4_774.4	774.4	1.2	8000	1.1	3460	45000	0.65	8000	0.60	3500	45000	
F 80 4_897.3	897.3	1.0	8000	0.93	3490	45000	0.56	8000	0.52	3500	45000	
F 80 4_972.0	972.0	0.93	8000	0.86	3490	45000	0.51	8000	0.48	3500	45000	
F 80 4_1058	1058	0.85	8000	0.79	3500	45000	0.47	8000	0.44	3500	45000	
F 80 4_1146	1146	0.79	8000	0.73	3500	45000	0.44	8000	0.40	3500	45000	
F 80 4_1277	1277	0.70	8000	0.65	3500	45000	0.39	8000	0.36	3500	45000	
F 80 4_1384	1384	0.65	8000	0.60	3500	45000	0.36	8000	0.34	3500	45000	
F 80 4_1578	1578	0.57	8000	0.53	3500	45000	0.32	8000	0.29	3500	45000	
F 80 4_1709	1709	0.53	8000	0.49	3500	45000	0.29	8000	0.27	3500	45000	
F 80 4_1834	1834	0.49	8000	0.46	3500	45000	0.27	8000	0.25	3500	45000	
F 80 4_1987	1987	0.45	8000	0.42	3500	45000	0.25	8000	0.23	3500	45000	

(—) Contatar con nuestro Servicio Técnico comunicando los datos relativos a la carga radial (sentido de giro, orientación, posición)

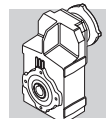


F 90

14000 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 90 3_10.3	10.3	272	6500	200	5480	23800	136	8000	123	8000	29300	465
F 90 3_11.1	11.1	252	7150	204	5280	23300	126	8800	125	7770	28700	
F 90 3_13.4	13.4	209	7550	178	4880	25000	104	9300	110	7280	30700	
F 90 3_14.5	14.5	193	8100	177	5000	24700	97	10000	109	7400	30300	
F 90 3_16.5	16.5	170	8400	161	4540	26000	85	10300	99	6960	32000	
F 90 3_17.9	17.9	156	8950	158	4560	25700	78	11000	97	7180	31700	
F 90 3_20.6	20.6	136	9200	141	3980	27400	68	11300	87	6260	33700	
F 90 3_22.3	22.3	126	9750	138	4280	27100	63	12000	85	6590	33400	
F 90 3_25.4	25.4	110	10050	125	3620	28700	55	12000	75	6310	36000	
F 90 3_28.6	28.6	98	9750	108	9800	30900	49	12000	66	12400	38000	
F 90 3_31.0	31.0	90	10550	108	9800	30300	45	13000	66	12400	37300	
F 90 3_37.4	37.4	75	10950	93	9820	32800	37	13500	57	12400	40400	
F 90 3_40.5	40.5	69	11900	93	9820	32100	35	14000	55	12500	40600	
F 90 3_46.1	46.1	61	12050	83	9840	34300	30	14000	48	12600	43600	
F 90 3_49.9	49.9	56	13050	83	9840	33500	28.1	14000	44	12700	44700	
F 90 3_57.3	57.3	49	13050	72	9810	36300	24.4	14000	39	12700	48100	
F 90 3_62.1	62.1	45	14000	71	9830	35600	22.5	14000	36	12800	49300	
F 90 3_70.8	70.8	40	14000	63	9830	38500	19.8	14000	31	12800	52700	
F 90 3_76.7	76.7	37	14000	58	9960	39500	18.3	14000	29	13000	54000	
F 90 3_88.4	88.4	32	14000	50	9930	42800	15.8	14000	25	12900	55000	
F 90 3_95.8	95.8	29.2	14000	46	10100	43800	14.6	14000	23	13100	55000	
F 90 3_103.3	103.3	27.1	14000	43	9960	45900	13.6	14000	21	13000	55000	
F 90 3_111.9	111.9	25.0	14000	40	10100	47100	12.5	14000	19.8	13100	55000	
F 90 3_126.8	126.8	22.1	14000	35	10000	50300	11.0	14000	17.5	13000	55000	
F 90 3_137.3	137.3	20.4	14000	32	10100	51500	10.2	14000	16.1	13100	55000	
F 90 3_150.3	150.3	18.6	14000	29	10100	54000	9.3	14000	14.7	13100	55000	
F 90 3_162.8	162.8	17.2	14000	27	10200	55000	8.6	14000	13.6	13200	55000	
F 90 3_179.2	179.2	15.6	14000	25	10200	55000	7.8	14000	12.4	13100	55000	
F 90 3_194.2	194.2	14.4	14000	23	10200	55000	7.2	14000	11.4	13200	55000	
F 90 4_213.6	213.6	13.1	14000	21	—	55000	6.6	14000	10.6	—	55000	
F 90 4_231.4	231.4	12.1	14000	19.6	—	55000	6.1	14000	9.8	—	55000	
F 90 4_268.7	268.7	10.4	14000	16.9	—	55000	5.2	14000	8.5	420	55000	
F 90 4_291.1	291.1	9.6	14000	15.6	—	55000	4.8	14000	7.8	420	55000	
F 90 4_361.8	361.8	7.7	14000	12.6	—	55000	3.9	14000	6.3	990	55000	
F 90 4_392.0	392.0	7.1	14000	11.6	—	55000	3.6	14000	5.8	990	55000	
F 90 4_457.5	457.5	6.1	14000	9.9	—	55000	3.1	14000	5.0	1390	55000	
F 90 4_495.6	495.6	5.6	14000	9.2	—	55000	2.8	14000	4.6	1390	55000	
F 90 4_577.5	577.5	4.8	14000	7.9	—	55000	2.4	14000	3.9	1600	55000	
F 90 4_625.6	625.6	4.5	14000	7.3	—	55000	2.2	14000	3.6	1600	55000	
F 90 4_714.0	714.0	3.9	14000	6.4	—	55000	2.0	14000	3.2	1800	55000	
F 90 4_773.4	773.4	3.6	14000	5.9	—	55000	1.8	14000	2.9	1800	55000	
F 90 4_910.2	910.2	3.1	14000	5.0	—	55000	1.5	14000	2.5	2020	55000	
F 90 4_986.0	986.0	2.8	14000	4.6	—	55000	1.4	14000	2.3	2020	55000	
F 90 4_1112	1112	2.5	14000	4.1	—	55000	1.3	14000	2.0	2110	55000	
F 90 4_1205	1205	2.3	14000	3.8	—	55000	1.2	14000	1.9	2110	55000	
F 90 4_1318	1318	2.1	14000	3.4	—	55000	1.1	14000	1.7	2220	55000	
F 90 4_1428	1428	2.0	14000	3.2	—	55000	0.98	14000	1.6	2220	55000	
F 90 4_1571	1571	1.8	14000	2.9	—	55000	0.89	14000	1.4	2260	55000	
F 90 4_1702	1702	1.6	14000	2.7	—	55000	0.82	14000	1.3	2260	55000	
F 90 4_1937	1937	1.4	14000	2.3	—	55000	0.72	14000	1.2	2300	55000	
F 90 4_2099	2099	1.3	14000	2.2	—	55000	0.67	14000	1.1	2300	55000	

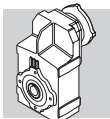
(—) Contactar con nuestro Servicio Técnico comunicando los datos relativos a la carga radial (sentido de giro, orientación, posición)



F 90

14000 Nm

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
F 90 3_10.3	10.3	87	9150	90	10000	33400	49	9600	53	15000	41900	465
F 90 3_11.1	11.1	81	10050	92	9780	32700	45	10400	53	15000	41600	
F 90 3_13.4	13.4	67	10600	80	9270	35100	37	12500	53	12700	42100	
F 90 3_14.5	14.5	62	11400	80	9390	34600	34	13550	53	12700	41400	
F 90 3_16.5	16.5	55	11750	72	8890	36600	30	12300	42	14600	46400	
F 90 3_17.9	17.9	50	12550	71	9140	36200	27.9	13150	41	14800	46200	
F 90 3_20.6	20.6	44	12200	60	9100	39700	24.3	12200	33	15000	51000	
F 90 3_22.3	22.3	40	13200	60	9120	39000	22.4	13200	33	15000	50700	
F 90 3_25.4	25.4	35	12000	48	10400	43800	19.7	12000	27	15000	55000	
F 90 3_28.6	28.6	31	13700	49	14400	43400	17.5	14000	28	15000	55000	
F 90 3_31.0	31.0	29.0	14000	46	14500	44000	16.1	14000	26	15000	55000	
F 90 3_37.4	37.4	24.1	14000	38	14700	48400	13.4	14000	21	15000	55000	
F 90 3_40.5	40.5	22.2	14000	35	14800	49600	12.3	14000	19.5	15000	55000	
F 90 3_46.1	46.1	19.5	14000	31	14900	53000	10.8	14000	17.2	15000	55000	
F 90 3_49.9	49.9	18.0	14000	29	15000	54200	10.0	14000	15.8	15000	55000	
F 90 3_57.3	57.3	15.7	14000	25	15000	55000	8.7	14000	13.8	15000	55000	
F 90 3_62.1	62.1	14.5	14000	23	15000	55000	8.1	14000	12.7	15000	55000	
F 90 3_70.8	70.8	12.7	14000	20	15000	55000	7.1	14000	11.2	15000	55000	
F 90 3_76.7	76.7	11.7	14000	18.6	15000	55000	6.5	14000	10.3	15000	55000	
F 90 3_88.4	88.4	10.2	14000	16.1	15000	55000	5.7	14000	8.9	15000	55000	
F 90 3_95.8	95.8	9.4	14000	14.9	15000	55000	5.2	14000	8.3	15000	55000	
F 90 3_103.3	103.3	8.7	14000	13.8	15000	55000	4.8	14000	7.7	15000	55000	
F 90 3_111.9	111.9	8.0	14000	12.7	15000	55000	4.5	14000	7.1	15000	55000	
F 90 3_126.8	126.8	7.1	14000	11.2	15000	55000	3.9	14000	6.2	15000	55000	
F 90 3_137.3	137.3	6.6	14000	10.4	15000	55000	3.6	14000	5.8	15000	55000	
F 90 3_150.3	150.3	6.0	14000	9.5	15000	55000	3.3	14000	5.3	15000	55000	
F 90 3_162.8	162.8	5.5	14000	8.7	15000	55000	3.1	14000	4.9	15000	55000	
F 90 3_179.2	179.2	5.0	14000	7.9	15000	55000	2.8	14000	4.4	15000	55000	
F 90 3_194.2	194.2	4.6	14000	7.3	15000	55000	2.6	14000	4.1	15000	55000	
F 90 4_213.6	213.6	4.2	14000	6.8	810	55000	2.3	14000	3.8	2350	55000	
F 90 4_231.4	231.4	3.9	14000	6.3	810	55000	2.2	14000	3.5	2350	55000	
F 90 4_268.7	268.7	3.3	14000	5.4	1390	55000	1.9	14000	3.0	2920	55000	
F 90 4_291.1	291.1	3.1	14000	5.0	1390	55000	1.7	14000	2.8	2920	55000	
F 90 4_361.8	361.8	2.5	14000	4.0	1960	55000	1.4	14000	2.2	3390	55000	
F 90 4_392.0	392.0	2.3	14000	3.7	1960	55000	1.3	14000	2.1	3390	55000	
F 90 4_457.5	457.5	2.0	14000	3.2	2360	55000	1.1	14000	1.8	3490	55000	
F 90 4_495.6	495.6	1.8	14000	2.9	2360	55000	1.0	14000	1.6	3490	55000	
F 90 4_577.5	577.5	1.6	14000	2.5	2570	55000	0.87	14000	1.4	3500	55000	
F 90 4_625.6	625.6	1.4	14000	2.3	2570	55000	0.80	14000	1.3	3500	55000	
F 90 4_714.0	714.0	1.3	14000	2.0	2770	55000	0.70	14000	1.1	3500	55000	
F 90 4_773.4	773.4	1.2	14000	1.9	2770	55000	0.65	14000	1.0	3500	55000	
F 90 4_910.2	910.2	0.99	14000	1.6	2840	55000	0.55	14000	0.89	3500	55000	
F 90 4_986.0	986.0	0.91	14000	1.5	2840	55000	0.51	14000	0.82	3500	55000	
F 90 4_1112	1112	0.81	14000	1.3	2860	55000	0.45	14000	0.73	3500	55000	
F 90 4_1205	1205	0.75	14000	1.2	2860	55000	0.41	14000	0.67	3500	55000	
F 90 4_1318	1318	0.68	14000	1.1	2890	55000	0.38	14000	0.62	3500	55000	
F 90 4_1428	1428	0.63	14000	1.0	2890	55000	0.35	14000	0.57	3500	55000	
F 90 4_1571	1571	0.57	14000	0.93	2900	55000	0.32	14000	0.52	3500	55000	
F 90 4_1702	1702	0.53	14000	0.86	2900	55000	0.29	14000	0.48	3500	55000	
F 90 4_1937	1937	0.46	14000	0.75	2910	55000	0.26	14000	0.42	3500	55000	
F 90 4_2099	2099	0.43	14000	0.70	2910	55000	0.24	14000	0.39	3500	55000	



62 PREDISPOSICIONES MOTOR

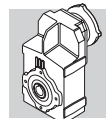
En las siguientes tablas se especifican los montajes posibles de motores en términos puramente geométricos.

La selección del motorreductor debe efectuarse siguiendo las instrucciones especificadas en el párrafo 12, respetando particularmente la condición $S \geq f_s$.

(D 56)

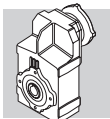
		IEC_  (IM B5)											
		BN										IEC	
P _{n1} (#) [kW]	2p	0.37	0.75	1.5	2.2	4	4	9.2	18.5	22	30	45	55
	4p	0.25	0.55	1.1	1.85	3	4	9.2	15	22	30	45	55
	6p	0.12	0.37	0.75	1.1	1.85	2.2	5.5	11	15	18.5	30	37
		P63	P71	P80	P90	P100	P112	P132	P160	P180	P200	P225	P250
F 10 2	i =	7.4_127.1		7.4_91.5		7.4_91.5							
F 20 2		8.7_132.2 ⊖ (14.8_18.1)		6.4_114.3		6.4_114.3							
F 20 3		156.3_545.3		156.3_545.3		156.3_545.3							
F 25 2		9.4_44.4 ⊖ (10.6_13.0)		6.9_44.4		6.9_44.4							
F 25 3		50.8_333.1		45.6_288.1		45.6_288.1							
F 25 4		393.9_1374		393.9_1374		393.9_1374							
F 31 2		18.5_44.6		6.9_44.6		6.9_44.6		6.9_37.7					
F 31 3		69.1_374.4		47.5_374.4		47.5_374.4		47.5_140.7					
F 31 4		418.9_1539		418.9_1539		418.9_1539							
F 41 2		24.1_47.9		6.7_47.9		6.7_47.9		6.7_47.9					
F 41 3		84.9_344.8		51.5_344.8		51.5_344.8		51.5_168.7					
F 41 4		433.7_1411		433.7_1411		433.7_1411							
F 51 2		30.0_37.1		7.2_37.1		7.2_37.1		7.2_37.1	7.2_37.1	7.2_37.1			
F 51 3		105.1_352.5		48.9_352.5		48.9_352.5		48.9_202.4	48.9_202.4	48.9_202.4			
F 51 4		429.1_1439		429.1_1439		429.1_1439							
F 60 3		98.2_280.7 ⊖ (29.6_32.1)		11.8_280.7 ⊖ (29.6_32.1)		11.8_280.7 ⊖ (29.6_32.1)		9.0_201.4	9.0_201.4	9.0_201.4			
F 60 4		315.4_1141		315.4_1141		315.4_1141							
F 70 3				85.4_196.0		85.4_196.0		16.3_196.0 ⊖ (27.7_38.4)	10.0_196.0	10.0_196.0	10.0_49.0 ⊖ (20.9_24.6)		
F 70 4		372.5_2188		216.5_2188		216.5_2188		216.5_822.2					
F 80 3				105.0_200.0		105.0_200.0		20.3_200.0 ⊖ (28.8_49.1)	12.9_200.0 ⊖ (28.8_31.3)	10.3_200.0	10.3_132.7	10.3_132.7	
F 80 4		451.5_1987		218.5_1987		218.5_1987		218.5_972.0					
F 90 3				126.8_194.2		126.8_194.2		25.4_194.2 ⊖ (28.6_62.1)	20.6_194.2 ⊖ (28.6_49.9)	10.3_194.2	10.3_162.8	10.3_162.8	10.3_162.8
F 90 4		577.5_2099		213.6_2099		213.6_2099		213.6_1205	213.6_1205	213.6_1205			

(#) P_{n1} = Máxima potencia instalable en la entrada P_—



(D 57)

							
		M05	M1	M2	M3	M4	M5
F 10 2	i =	7.4_127.1	7.4_71.1	7.4_91.5	7.4_91.5		
F 20 2		8.7_132.2 ⊖ (14.8_18.1)	8.7_90.4 ⊖ (14.8_18.1)	6.4_114.3	6.4_114.3		
F 20 3		156.3_545.3	156.3_545.3	156.3_545.3	156.3_545.3		
F 25 2		9.4_44.4 ⊖ (10.6_13.0)	9.4_44.4 ⊖ (10.6_13.0)	6.9_44.4	6.9_44.4		
F 25 3		50.8_333.1	50.8_227.8	45.6_288.1	45.6_288.1		
F 25 4		393.9_1374	393.9_1374	393.9_1374	393.9_1374		
F 31 2			18.5_44.6	6.9_44.6	6.9_44.6	6.9_37.7	
F 31 3			69.1_293.8	47.5_374.4	47.5_374.4	47.5_140.7	
F 31 4		418.9_1539	418.9_1539	418.9_1539	418.9_1539		
F 41 2			24.1_47.9	6.7_47.9	6.7_47.9	6.7_47.9	
F 41 3			84.9_344.8	51.5_344.8	51.5_344.8	51.5_168.7	
F 41 4		433.7_1411	433.7_1411	433.7_1411	433.7_1411		
F 51 2			30.0_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1
F 51 3			105.1_352.5	48.9_352.5	48.9_352.5	48.9_202.4	48.9_202.4
F 51 4			429.1_1439	429.1_1439	429.1_1439		
F 60 3				11.8_280.7 ⊖ (29.6_32.1)	11.8_280.7 ⊖ (29.6_32.1)	9_201.4	9_201.4
F 60 4			315.4_1141	315.4_1141	315.4_1141		
F 70 3				85.4_196.0	85.4_196.0	16.3_196.0 ⊖ (27.7_38.4)	16.3_196.0 ⊖ (27.7_38.4)
F 70 4			372.5_2188	216.5_2188	216.5_2188	216.5_822.2	
F 80 3					105.0_200.0 ⊖ (28.8_49.1)	20.3_200.0 ⊖ (28.8_49.1)	20.3_200.0 ⊖ (28.8_49.1)
F 80 4			451.5_1987	218.5_1987	218.5_1987	218.5_972.0	
F 90 3					126.8_194.2 ⊖ (28.6_62.1)	25.4_194.2 ⊖ (28.6_62.1)	25.4_194.2 ⊖ (28.6_62.1)
F 90 4				213.6_2099	213.6_2099	213.6_1205	



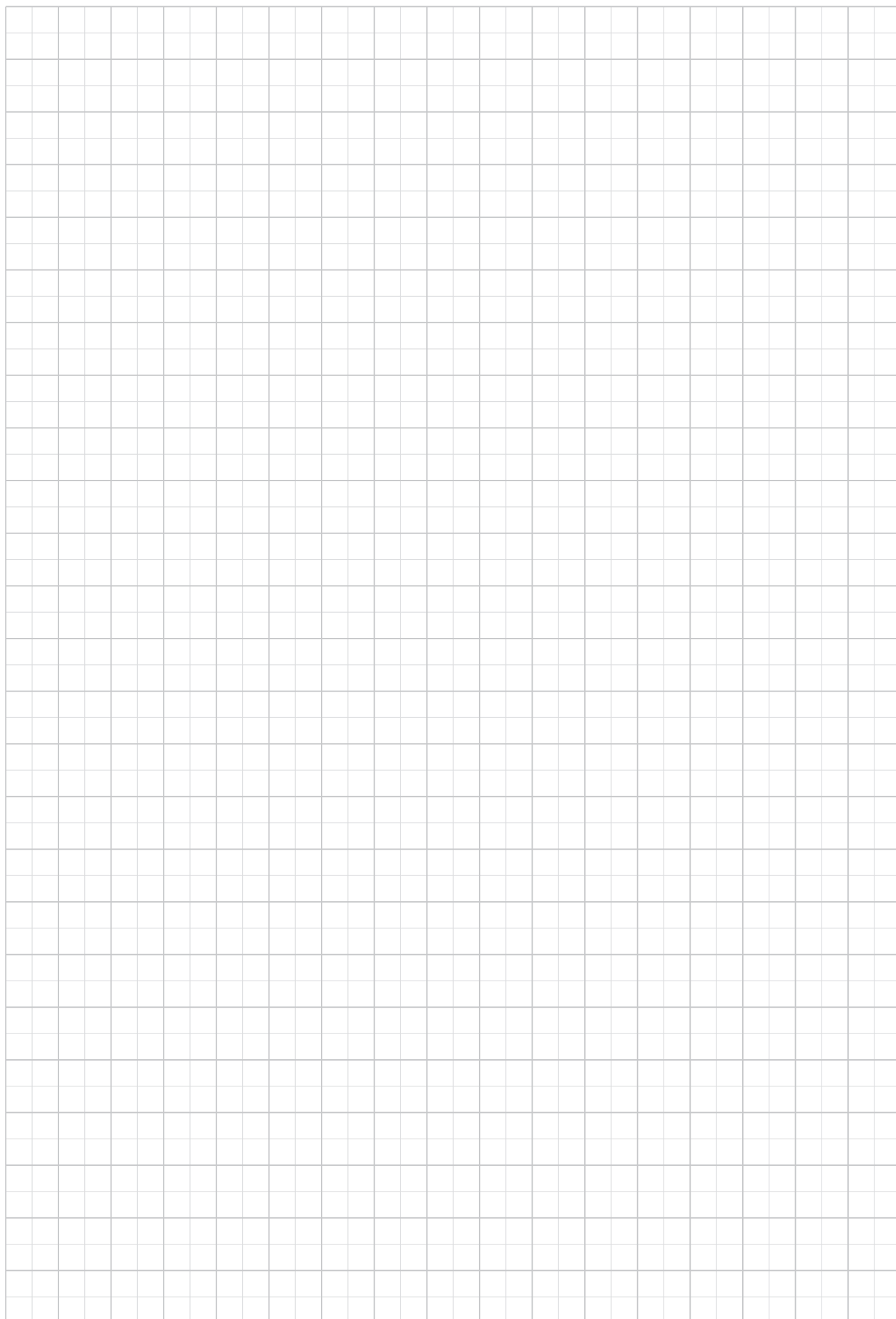
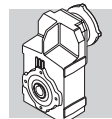
Predisposiciones motor que están disponibles para ser acoplados a reductores F 10 ... F60 con servomotores de los tipos mas comunes. Las dimensiones de las bridas están indicadas en la sección de dimensiones de cada reductor. La sigla **SK** identifica la fijación con el eje del motor provisto de chavetero, mientras la sigla **SC** corresponde a la fijación mediante Aro de apriete (suministrado).

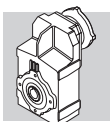
(D 58)

		SERVO INPUT							
		SK60A	SK60B	SK80A	SK80B	SK80C	SK95A	SK95B	SK95C
		SC60A	SC60B	SC80A	SC80B	SC80C	SC95A	SC95B	SC95C
F 10 2	i =	7.4_127.1	7.4_71.1	7.4_71.1		7.4_91.5	7.4_71.1	7.4_91.5	7.4_91.5
F 20 2		8.7_132.2 ⊖(14.8_18.1)	8.7_90.4 ⊖(14.8_18.1)	8.7_90.4 ⊖(14.8_18.1)		6.4_114.3	8.7_90.4 ⊖(14.8_18.1)	6.4_114.3	6.4_114.3
F 20 3		156.3_545.3	156.3_545.3	156.3_545.3		156.3_545.3	156.3_545.3	156.3_545.3	156.3_545.3
F 25 2		9.4_44.4 ⊖(10.6_13.0)	9.4_44.4 ⊖(10.6_13.0)	9.4_44.4 ⊖(10.6_13.0)		6.9_44.4	9.4_44.4 ⊖(10.6_13.0)	6.9_44.4	6.9_44.4
F 25 3		45.6_333.1	45.6_227.8	45.6_227.8		45.6_288.1	45.6_227.8	45.6_288.1	45.6_288.1
F 25 4		393.9_1374	393.9_1374	393.9_1374		393.9_1374	393.9_1374	393.9_1374	393.9_1374
F 31 2		18.5_44.6	18.5_44.6	18.5_44.6		6.9_44.6	18.5_44.6	6.9_44.6	6.9_44.6
F 31 3		69.1_374.4	69.1_293.8	69.1_293.8		47.5_374.4	69.1_293.8	47.5_374.4	47.5_374.4
F 31 4		418.9_1539	418.9_1539	418.9_1539		418.9_1539	418.9_1539	418.9_1539	418.9_1539
F 41 2					24.1_47.9	6.7_47.9	24.1_47.9	6.7_47.9	6.7_47.9
F 41 3					84.9_344.8	51.5_344.8	84.9_344.8	51.5_344.8	51.5_344.8
F 41 4		433.7_1411	433.7_1411	433.7_1411		433.7_1411	433.7_1411	433.7_1411	433.7_1411
F 51 2					30.0_37.1	7.2_37.1	30.0_37.1	7.2_37.1	7.2_37.1
F 51 3					105.1_352.5	48.9_352.5	105.1_352.5	48.9_352.5	48.9_352.5
F 51 4						429.1_1439	429.1_1439	429.1_1439	429.1_1439
F 60 3						11.8_280.7 ⊖(29.6_32.1)	106.4_280.7	11.8_280.7 ⊖(29.6_32.1)	11.8_280.7 ⊖(29.6_32.1)
F 60 4					315.4_1141	315.4_1141	315.4_1141	315.4_1141	315.4_1141

(D 59)

		SERVO INPUT					
		SK110A	SK110B	SK130A	SK130B	SK180A	SK180B
		SC110A	SC110B	SC130A	SC130B	SC180A	SC180B
F 10 2	i =	7.4_91.5	7.4_91.5				
F 20 2		6.4_114.3	6.4_114.3				
F 20 3		156.3_545.3	156.3_545.3				
F 25 2		6.9_44.4	6.9_44.4				
F 25 3		45.6_288.1	45.6_288.1				
F 25 4		393.9_1374	393.9_1374				
F 31 2		6.9_44.6	6.9_44.6	6.9_44.6			
F 31 3		47.5_374.4	47.5_374.4	47.5_374.4			
F 31 4		418.9_1539	418.9_1539				
F 41 2		6.7_47.9	6.7_47.9	6.7_47.9	6.7_47.9	6.7_47.9	6.7_47.9
F 41 3		51.5_344.8	51.5_344.8	51.5_344.8	51.5_168.7	51.5_168.7	51.5_168.7
F 41 4		433.7_1411	433.7_1411				
F 51 2		7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1	7.2_37.1
F 51 3		48.9_352.5	48.9_352.5	48.9_352.5	48.9_202.4	48.9_202.4	48.9_202.4
F 51 4		429.1_1439	429.1_1439	429.1_1439			
F 60 3		11.8_280.7 ⊖ (29.6_32.1)	11.8_280.7 ⊖ (29.6_32.1)	11.8_280.7 ⊖ (29.6_32.1)	9.0_201.4	9.0_201.4	9.0_201.4
F 60 4		315.4_1141	315.4_1141	315.4_1141			





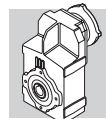
63 MOMENTO DE INERCIA

Las tablas siguientes indican los valores del momento de inercia J_r [kgm²] referidos al eje de entrada del reductor; para una mayor facilidad de lectura, a continuación se reproducen los significados de los símbolos utilizados.

	Los valores relativos a este símbolo corresponden al reductor compacto sin motor. En este caso, para obtener el momento de inercia total del motorreductor, se sumará el valor correspondiente al reductor compacto, en la relación de reducción seleccionada, al valor de momento de inercia correspondiente al motor (dato que se obtiene de las tablas de características técnicas de los motores eléctricos).		Los valores relativos a este símbolo corresponden al reductor aislado, configurado para conexión de motor (medida IEC ...).
			Los valores correspondientes al reductor están asociados a este símbolo.
			Los valores relativos a estos símbolos deben atribuirse al reductor predispuesto para acomplarse a servomotores.

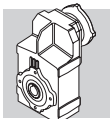
F 10

	i	J (•10 ⁻⁴) [kgm ²]							
			63	71	80	90	100	112	
F 10 2_7.4	7.4	1.0	1.8	1.8	3.8	3.7	4.9	4.9	1.7
F 10 2_8.6	8.6	0.77	1.5	1.5	3.6	3.5	4.7	4.7	1.5
F 10 2_9.8	9.8	0.64	1.4	1.4	3.4	3.3	4.5	4.5	1.3
F 10 2_11.5	11.5	0.48	1.2	1.2	3.3	3.2	4.4	4.4	1.2
F 10 2_13.0	13.0	0.38	1.1	1.1	3.2	3.1	4.3	4.3	1.1
F 10 2_14.6	14.6	0.61	1.4	1.4	3.4	3.3	4.5	4.5	1.3
F 10 2_17.0	17.0	0.48	1.3	1.2	3.3	3.2	4.4	4.4	1.2
F 10 2_19.3	19.3	0.41	1.2	1.2	3.2	3.1	4.3	4.3	1.1
F 10 2_22.8	22.8	0.32	1.1	1.1	3.1	3.0	4.2	4.2	1.0
F 10 2_25.8	25.8	0.25	1.0	1.0	3.1	2.9	4.1	4.1	0.93
F 10 2_29.6	29.6	0.19	1.0	0.95	3.0	2.9	4.1	4.1	0.87
F 10 2_33.0	33.0	0.16	0.93	0.92	3.0	2.8	4.1	4.1	0.84
F 10 2_35.3	35.3	0.14	0.92	0.90	3.0	2.8	4.0	4.0	0.83
F 10 2_39.6	39.6	0.12	0.90	0.88	2.9	2.8	4.0	4.0	0.80
F 10 2_44.7	44.7	0.10	0.88	0.86	2.9	2.8	4.0	4.0	0.79
F 10 2_48.7	48.7	0.09	0.86	0.85	2.9	2.8	4.0	4.0	0.77
F 10 2_56.7	56.7	0.07	0.84	0.83	2.9	2.7	4.0	4.0	0.75
F 10 2_63.0	63.0	0.06	0.83	0.82	2.9	2.7	3.9	3.9	0.74
F 10 2_71.1	71.1	0.05	0.82	0.81	2.8	2.7	3.9	3.9	0.73
F 10 2_81.3	81.3	0.04	0.78	0.77	2.8	2.7	3.9	3.9	0.67
F 10 2_91.5	91.5	0.03	0.78	0.76	2.8	2.7	3.9	3.9	0.66
F 10 2_106.0	106.0	0.03	0.77	0.76	—	—	—	—	0.66
F 10 2_127.1	127.1	0.02	0.76	0.75	—	—	—	—	0.65



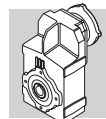
F 10

	i	J ($\cdot 10^{-4}$) [kgm ²]									
		 SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 10 2_7.4	7.4	1.3	1.5	1.3	1.7	3.8	4.3	3.8	4.3	3.7	4.7
F 10 2_8.6	8.6	1.0	1.3	1.1	1.5	3.6	4.0	3.6	4.1	3.5	4.5
F 10 2_9.8	9.8	0.91	1.2	0.93	1.4	3.5	3.9	3.4	3.9	3.3	4.3
F 10 2_11.5	11.5	0.75	1.0	0.77	1.2	3.3	3.7	3.3	3.8	3.2	4.2
F 10 2_13.0	13.0	0.65	0.91	0.67	1.1	3.2	3.6	3.2	3.7	3.1	4.1
F 10 2_14.6	14.6	0.88	1.1	0.91	1.3	3.4	3.9	3.4	3.9	3.3	4.3
F 10 2_17.0	17.0	0.75	1.0	0.77	1.2	3.3	3.7	3.3	3.8	3.2	4.2
F 10 2_19.3	19.3	0.68	0.94	0.70	1.1	3.2	3.7	3.2	3.7	3.1	4.1
F 10 2_22.8	22.8	0.59	0.85	0.61	1.0	3.1	3.6	3.1	3.6	3.0	4.0
F 10 2_25.8	25.8	0.52	0.78	0.54	0.98	3.1	3.5	3.1	3.6	2.9	3.9
F 10 2_29.6	29.6	0.46	0.72	0.48	0.92	3.0	3.4	3.0	3.5	2.9	3.9
F 10 2_33.0	33.0	0.43	0.69	0.45	0.89	3.0	3.4	3.0	3.5	2.8	3.8
F 10 2_35.3	35.3	0.41	0.67	0.43	0.87	3.0	3.4	3.0	3.5	2.8	3.8
F 10 2_39.6	39.6	0.39	0.65	0.41	0.85	2.9	3.3	2.9	3.4	2.8	3.8
F 10 2_44.7	44.7	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.8	3.8
F 10 2_48.7	48.7	0.36	0.62	0.38	0.82	2.9	3.3	2.9	3.4	2.8	3.8
F 10 2_56.7	56.7	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7
F 10 2_63.0	63.0	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.7	3.7
F 10 2_71.1	71.1	0.32	0.58	0.34	0.78	2.9	3.3	2.8	3.3	2.7	3.7
F 10 2_81.3	81.3	0.31	0.57	—	—	—	—	2.8	3.3	2.7	3.7
F 10 2_91.5	91.5	0.30	0.56	—	—	—	—	2.8	3.3	2.7	3.7
F 10 2_106.0	106.0	0.30	0.56	—	—	—	—	—	—	—	—
F 10 2_127.1	127.1	0.29	0.55	—	—	—	—	—	—	—	—



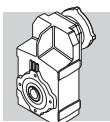
F 20

	i	J ($\cdot 10^{-4}$) [kgm ²]							
			63	71	80	90	100	112	
F 20 2_6.4	6.4	2.2	—	—	5.0	4.8	6.0	6.0	3.9
F 20 2_7.8	7.8	1.5	—	—	4.3	4.2	5.4	5.4	3.3
F 20 2_8.7	8.7	1.3	2.0	2.0	4.1	3.9	5.2	5.2	3.0
F 20 2_10.0	10.0	1.0	1.8	1.7	3.8	3.7	4.9	4.9	2.7
F 20 2_11.2	11.2	0.88	1.6	1.6	3.6	3.5	4.7	4.7	2.6
F 20 2_14.8	14.8	1.2	—	—	4.0	3.9	5.1	5.1	2.9
F 20 2_18.1	18.1	0.90	—	—	3.7	3.5	4.7	4.7	2.6
F 20 2_20.2	20.2	0.78	1.5	1.5	3.5	3.4	4.6	4.6	2.5
F 20 2_23.1	23.1	0.64	1.4	1.3	3.4	3.3	4.5	4.5	2.4
F 20 2_25.9	25.9	0.57	1.3	1.3	3.3	3.2	4.4	4.4	2.3
F 20 2_30.4	30.4	0.41	1.1	1.1	3.2	3.0	4.3	4.3	2.1
F 20 2_33.1	33.1	0.36	1.1	1.1	3.1	3.0	4.2	4.2	2.1
F 20 2_37.9	37.9	0.30	1.0	1.0	3.1	2.9	4.1	4.1	2.0
F 20 2_41.8	41.8	0.27	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 20 2_44.8	44.8	0.24	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 20 2_50.7	50.7	0.21	0.93	0.92	3.0	2.8	4.1	4.1	1.9
F 20 2_56.7	56.7	0.18	0.91	0.90	2.9	2.8	4.0	4.0	1.9
F 20 2_61.9	61.9	0.16	0.89	0.88	2.9	2.8	4.0	4.0	1.9
F 20 2_69.1	69.1	0.14	0.87	0.86	2.9	2.8	4.0	4.0	1.8
F 20 2_76.8	76.8	0.12	0.86	0.85	2.9	2.8	4.0	4.0	1.8
F 20 2_90.4	90.4	0.10	0.84	0.82	2.9	2.7	3.9	3.9	1.8
F 20 2_101.6	101.6	0.09	0.80	0.79	2.8	2.7	3.9	3.9	1.8
F 20 2_114.3	114.3	0.08	0.79	0.77	2.8	2.7	3.9	3.9	1.8
F 20 2_132.2	132.2	0.03	0.78	0.77	—	—	—	—	1.8
F 20 3_156.3	156.3	0.04	0.81	0.80	2.8	2.7	3.9	3.9	0.72
F 20 3_172.6	172.6	0.04	0.81	0.80	2.8	2.7	3.9	3.9	0.72
F 20 3_184.9	184.9	0.04	0.81	0.80	2.8	2.7	3.9	3.9	0.72
F 20 3_209.3	209.3	0.03	0.81	0.79	2.8	2.7	3.9	3.9	0.72
F 20 3_234.0	234.0	0.03	0.81	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_255.3	255.3	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_285.2	285.2	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_316.9	316.9	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_372.9	372.9	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.71
F 20 3_419.3	419.3	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.66
F 20 3_471.7	471.7	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.66
F 20 3_545.3	545.3	0.03	0.80	0.79	2.8	2.7	3.9	3.9	0.66



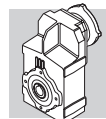
F 20

	i	J ($\cdot 10^{-4}$) [kgm ²]									
		 SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 20 2_6.4	6.4	—	—	—	—	—	—	5.0	5.5	4.8	5.8
F 20 2_7.8	7.8	—	—	—	—	—	—	4.3	4.8	4.2	5.2
F 20 2_8.7	8.7	1.6	1.8	1.6	2.0	4.1	4.6	4.1	4.6	3.9	4.9
F 20 2_10.0	10.0	1.3	1.5	1.3	1.7	3.8	4.3	3.8	4.3	3.7	4.7
F 20 2_11.2	11.2	1.2	1.4	1.2	1.6	3.7	4.1	3.6	4.1	3.5	4.5
F 20 2_14.8	14.8	—	—	—	—	—	—	4.0	4.5	3.9	4.9
F 20 2_18.1	18.1	—	—	—	—	—	—	3.7	4.2	3.5	4.5
F 20 2_20.2	20.2	1.1	1.3	1.1	1.5	3.6	4.0	3.5	4.0	3.4	4.4
F 20 2_23.1	23.1	0.91	1.2	0.93	1.4	3.5	3.9	3.4	3.9	3.3	4.3
F 20 2_25.9	25.9	0.84	1.1	0.86	1.3	3.4	3.8	3.3	3.8	3.2	4.2
F 20 2_30.4	30.4	0.68	0.94	0.70	1.1	3.2	3.7	3.2	3.7	3.0	4.0
F 20 2_33.1	33.1	0.63	0.89	0.65	1.1	3.2	3.6	3.1	3.6	3.0	4.0
F 20 2_37.9	37.9	0.47	0.83	0.59	1.0	3.1	3.6	3.1	3.6	2.9	3.9
F 20 2_41.8	41.8	0.44	0.80	0.56	1.0	3.1	3.5	3.0	3.5	2.9	3.9
F 20 2_44.8	44.8	0.41	0.77	0.53	0.97	3.1	3.5	3.0	3.5	2.9	3.9
F 20 2_50.7	50.7	0.48	0.74	0.50	0.94	3.0	3.5	3.0	3.5	2.8	3.8
F 20 2_56.7	56.7	0.45	0.71	0.47	0.91	3.0	3.4	2.9	3.4	2.8	3.8
F 20 2_61.9	61.9	0.43	0.69	0.45	0.89	3.0	3.4	2.9	3.4	2.8	3.8
F 20 2_69.1	69.1	0.41	0.67	0.43	0.87	3.0	3.4	2.9	3.4	2.8	3.8
F 20 2_76.8	76.8	0.39	0.65	0.41	0.85	2.9	3.4	2.9	3.4	2.8	3.8
F 20 2_90.4	90.4	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.7	3.7
F 20 2_101.6	101.6	0.36	0.62	—	—	—	—	2.8	3.3	2.7	3.7
F 20 2_114.3	114.3	0.35	0.61	—	—	—	—	2.8	3.3	2.7	3.7
F 20 2_132.2	132.2	0.30	0.56	—	—	—	—	—	—	—	—
F 20 3_156.3	156.3	0.31	0.57	0.33	0.77	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_172.6	172.6	0.31	0.57	0.33	0.77	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_184.9	184.9	0.31	0.57	0.33	0.77	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_209.3	209.3	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_234.0	234.0	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_255.3	255.3	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_285.2	285.2	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_316.9	316.9	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_372.9	372.9	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_419.3	419.3	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_471.7	471.7	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7
F 20 3_545.3	545.3	0.30	0.56	0.32	0.76	2.9	3.3	2.8	3.3	2.7	3.7



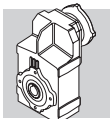
F 25

	i	J (•10 ⁻⁴) [kgm ²]							
			IEC						
			63	71	80	90	100	112	
F 25 2_6.9	6.9	2.7	—	—	5.4	5.3	6.5	6.5	4.4
F 25 2_8.4	8.4	1.9	—	—	4.6	4.5	5.7	5.7	3.6
F 25 2_9.4	9.4	1.6	2.3	2.3	4.3	4.2	5.4	5.4	3.3
F 25 2_10.6	10.6	1.9	—	—	4.6	4.5	5.7	5.7	3.6
F 25 2_13.0	13.0	1.3	—	—	4.1	4.0	5.2	5.2	3.0
F 25 2_14.5	14.5	1.1	1.8	1.8	3.9	3.8	5.0	5.0	2.8
F 25 2_16.6	16.6	0.90	1.6	1.6	3.7	3.5	4.7	4.7	2.6
F 25 2_18.6	18.6	0.77	1.5	1.5	3.5	3.4	4.6	4.6	2.5
F 25 2_21.8	21.8	0.57	1.3	1.3	3.3	3.2	4.4	4.4	2.3
F 25 2_23.8	23.8	0.48	1.2	1.2	3.2	3.1	4.3	4.3	2.2
F 25 2_27.2	27.2	0.40	1.1	1.1	3.2	3.0	4.2	4.2	2.1
F 25 2_30.0	30.0	0.35	1.1	1.1	3.1	3.0	4.2	4.2	2.1
F 25 2_32.2	32.2	0.31	1.0	1.0	3.1	2.9	4.2	4.2	2.0
F 25 2_36.4	36.4	0.26	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 25 2_40.7	40.7	0.22	1.0	0.94	3.0	2.9	4.1	4.1	1.9
F 25 2_44.4	44.4	0.20	0.93	0.92	3.0	2.8	4.0	4.0	1.9
F 25 3_45.6	45.6	0.79	—	—	3.6	3.4	4.6	4.6	2.5
F 25 3_50.8	50.8	0.70	1.4	1.4	3.5	3.3	4.5	4.5	2.4
F 25 3_58.3	58.3	0.58	1.3	1.3	3.3	3.2	4.4	4.4	2.3
F 25 3_65.3	65.3	0.52	1.2	1.2	3.3	3.1	4.4	4.4	2.2
F 25 3_76.6	76.6	0.38	1.1	1.1	3.1	3.0	4.2	4.2	2.1
F 25 3_83.4	83.4	0.32	1.0	1.0	3.1	3.0	4.2	4.2	2.0
F 25 3_95.5	95.5	0.28	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 25 3_105.4	105.4	0.25	1.0	1.0	3.0	2.9	4.1	4.1	2.0
F 25 3_113.0	113.0	0.23	0.95	0.94	3.0	2.9	4.1	4.1	1.9
F 25 3_127.8	127.8	0.20	0.92	0.91	3.0	2.8	4.0	4.0	1.9
F 25 3_143.0	143.0	0.17	0.90	0.89	2.9	2.8	4.0	4.0	1.9
F 25 3_155.9	155.9	0.15	0.88	0.87	2.9	2.8	4.0	4.0	1.9
F 25 3_174.2	174.2	0.13	0.87	0.86	2.9	2.8	4.0	4.0	1.8
F 25 3_193.6	193.6	0.12	0.85	0.84	2.9	2.7	4.0	4.0	1.8
F 25 3_227.8	227.8	0.10	0.83	0.82	2.9	2.7	3.9	3.9	1.8
F 25 3_256.1	256.1	0.09	0.79	0.78	2.8	2.7	3.9	3.9	1.8
F 25 3_288.1	288.1	0.08	0.78	0.77	2.8	2.7	3.9	3.9	1.8
F 25 3_333.1	333.1	0.03	0.78	0.76	—	—	—	—	1.8
F 25 4_393.9	393.9	0.02	0.80	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_434.9	434.9	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_466.0	466.0	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_527.3	527.3	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_589.7	589.7	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_643.3	643.3	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_718.7	718.7	0.02	0.79	0.78	2.8	2.7	3.9	3.9	0.70
F 25 4_798.5	798.5	0.01	0.79	0.77	2.8	2.7	3.9	3.9	0.70
F 25 4_939.8	939.8	0.01	0.79	0.77	2.8	2.7	3.9	3.9	0.69
F 25 4_1057	1057	0.01	0.79	0.77	2.8	2.7	3.9	3.9	0.64
F 25 4_1189	1189	0.01	0.78	0.77	2.8	2.7	3.9	3.9	0.64
F 25 4_1374	1374	0.01	0.78	0.77	2.8	2.7	3.9	3.9	0.64



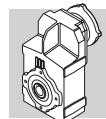
F 25

	i	J (•10 ⁻⁴) [kgm ²]									
		 SERVO									
		60A		60B 80A		95A		80C 95B 110A		95C 110B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 25 2_6.9	6.9	—	—	—	—	—	—	5.4	5.9	5.3	6.3
F 25 2_8.4	8.4	—	—	—	—	—	—	4.6	5.1	4.5	5.5
F 25 2_9.4	9.4	1.9	2.1	1.9	2.3	4.4	4.9	4.3	4.8	4.2	5.2
F 25 2_10.6	10.6	—	—	—	—	—	—	4.6	5.1	4.5	5.5
F 25 2_13.0	13.0	—	—	—	—	—	—	4.1	4.6	4.0	5.0
F 25 2_14.5	14.5	1.4	1.6	1.4	1.8	3.9	4.4	3.9	4.4	3.8	4.8
F 25 2_16.6	16.6	1.2	1.4	1.2	1.6	3.7	4.2	3.7	4.2	3.5	4.5
F 25 2_18.6	18.6	1.0	1.3	1.1	1.5	3.6	4.0	3.5	4.0	3.4	4.4
F 25 2_21.8	21.8	0.84	1.1	0.86	1.3	3.4	3.8	3.3	3.8	3.2	4.2
F 25 2_23.8	23.8	0.75	1.0	0.77	1.2	3.3	3.7	3.2	3.7	3.1	4.1
F 25 2_27.2	27.2	0.67	0.93	0.69	1.1	3.2	3.7	3.2	3.7	3.0	4.0
F 25 2_30.0	30.0	0.62	0.88	0.64	1.1	3.2	3.6	3.1	3.6	3.0	4.0
F 25 2_32.2	32.2	0.58	0.84	1.4	1.8	3.1	3.6	3.1	3.6	2.9	3.9
F 25 2_36.4	36.4	0.53	0.79	0.55	0.99	3.1	3.5	3.0	3.5	2.9	3.9
F 25 2_40.7	40.7	0.49	0.75	0.51	0.95	3.0	3.5	3.0	3.5	2.9	3.9
F 25 2_44.4	44.4	0.47	0.73	0.49	0.93	3.0	3.5	3.0	3.5	2.8	3.8
F 25 3_45.6	45.6	1.1	1.3	1.1	1.5	3.6	4.0	3.6	4.1	3.4	4.4
F 25 3_50.8	50.8	0.97	1.2	0.99	1.4	3.5	4.0	3.5	4.0	3.3	4.3
F 25 3_58.3	58.3	0.85	1.1	0.87	1.3	3.4	3.8	3.3	3.8	3.2	4.2
F 25 3_65.3	65.3	0.79	1.1	0.84	1.2	3.3	3.8	3.3	3.8	3.1	4.1
F 25 3_76.6	76.6	0.65	0.91	0.67	1.1	3.2	3.6	3.1	3.6	3.0	4.0
F 25 3_83.4	83.4	0.59	0.85	0.61	1.0	3.1	3.6	3.1	3.6	3.0	4.0
F 25 3_95.5	95.5	0.55	0.81	0.57	1.0	3.1	3.5	3.0	3.5	2.9	3.9
F 25 3_105.4	105.4	0.52	0.78	0.54	0.98	3.1	3.5	3.0	3.5	2.9	3.9
F 25 3_113.0	113.0	0.50	0.76	0.52	0.96	3.1	3.5	3.0	3.5	2.9	3.9
F 25 3_127.8	127.8	0.47	0.73	0.49	0.93	3.0	3.5	3.0	3.5	2.8	3.8
F 25 3_143.0	143.0	0.44	0.70	0.46	0.90	3.0	3.4	2.9	3.4	2.8	3.8
F 25 3_155.9	155.9	0.42	0.68	0.44	0.88	3.0	3.4	2.9	3.4	2.8	3.8
F 25 3_174.2	174.2	0.40	0.66	0.42	0.86	3.0	3.4	2.9	3.4	2.8	3.8
F 25 3_193.6	193.6	0.39	0.65	0.41	0.85	2.9	3.4	2.9	3.4	2.7	3.7
F 25 3_227.8	227.8	0.37	0.63	0.39	0.83	2.9	3.4	2.9	3.4	2.7	3.7
F 25 3_256.1	256.1	0.36	0.62	—	—	—	—	2.8	3.3	2.7	3.7
F 25 3_288.1	288.1	0.35	0.61	—	—	—	—	2.8	3.3	2.7	3.7
F 25 3_333.1	333.1	0.30	0.56	—	—	—	—	—	—	—	—
F 25 4_393.9	393.9	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_434.9	434.9	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_466.0	466.0	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_527.3	527.3	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_589.7	589.7	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_643.3	643.3	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_718.7	718.7	0.29	0.55	0.31	0.75	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_798.5	798.5	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_939.8	939.8	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_1057	1057	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_1189	1189	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7
F 25 4_1374	1374	0.28	0.54	0.30	0.74	2.8	3.3	2.8	3.3	2.7	3.7



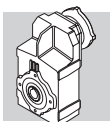
F 31

	i	J (•10 ⁻⁴) [kgm ²]								
			IEC 							
			63	71	80	90	100	112	132	
F 31 2_6.9	6.9	5.0	—	—	7.8	7.6	8.9	8.9	22	7.1
F 31 2_8.2	8.2	3.7	—	—	6.5	6.3	7.5	7.5	20	5.8
F 31 2_9.0	9.0	3.2	—	—	6.0	5.8	7.0	7.0	20	5.3
F 31 2_10.7	10.7	3.5	—	—	6.3	6.2	7.4	7.4	20	5.6
F 31 2_12.7	12.7	2.6	—	—	5.4	5.3	6.5	6.5	19	4.7
F 31 2_13.9	13.9	2.3	—	—	5.1	4.9	6.2	6.2	19	4.4
F 31 2_16.8	16.8	1.8	—	—	4.6	4.4	5.6	5.6	18	3.9
F 31 2_18.5	18.5	1.5	2.2	2.2	4.2	4.1	5.3	5.3	18	3.5
F 31 2_21.1	21.1	1.1	1.8	1.8	3.9	3.7	5.0	5.0	18	3.2
F 31 2_23.4	23.4	1.0	1.7	1.7	3.7	3.6	4.8	4.8	18	3.0
F 31 2_27.3	27.3	0.78	1.5	1.5	3.5	3.4	4.6	4.6	17	2.8
F 31 2_30.1	30.1	0.65	1.4	1.4	3.4	3.3	4.5	4.5	17	2.7
F 31 2_34.4	34.4	0.53	1.3	1.2	3.3	3.2	4.4	4.4	17	2.6
F 31 2_37.7	37.7	0.47	1.2	1.2	3.2	3.1	4.3	4.3	17	2.5
F 31 2_40.4	40.4	0.42	1.1	1.1	3.2	3.0	4.3	4.3	—	2.5
F 31 2_44.6	44.6	0.37	1.1	1.1	3.1	3.0	4.2	4.2	—	2.4
F 31 3_47.5	47.5	1.6	—	—	4.3	4.2	5.4	5.4	18	3.6
F 31 3_52.1	52.1	1.4	—	—	4.2	4.0	5.3	5.3	18	3.5
F 31 3_62.8	62.8	1.2	—	—	3.9	3.8	5.0	5.0	18	3.2
F 31 3_69.1	69.1	1.0	1.7	1.7	3.7	3.6	4.8	4.8	18	3.0
F 31 3_78.9	78.9	0.72	1.4	1.4	3.5	3.4	4.6	4.6	17	2.8
F 31 3_87.4	87.4	0.66	1.4	1.4	3.4	3.3	4.5	4.5	17	2.7
F 31 3_101.9	101.9	0.54	1.3	1.2	3.3	3.2	4.4	4.4	17	2.6
F 31 3_112.5	112.5	0.46	1.2	1.2	3.2	3.1	4.3	4.3	17	2.5
F 31 3_128.4	128.4	0.38	1.1	1.1	3.1	3.0	4.2	4.2	17	2.4
F 31 3_140.7	140.7	0.35	1.1	1.1	3.1	3.0	4.2	4.2	17	2.4
F 31 3_150.8	150.8	0.31	1.0	1.0	3.1	2.9	4.2	4.2	—	2.4
F 31 3_166.8	166.8	0.28	1.0	1.0	3.0	2.9	4.1	4.1	—	2.3
F 31 3_185.4	185.4	0.24	1.0	1.0	3.0	2.9	4.1	4.1	—	2.3
F 31 3_202.3	202.3	0.21	0.94	0.93	3.0	2.8	4.1	4.1	—	2.3
F 31 3_228.2	228.2	0.18	0.92	0.90	2.9	2.8	4.0	4.0	—	2.2
F 31 3_253.6	253.6	0.16	0.89	0.88	2.9	2.8	4.0	4.0	—	2.2
F 31 3_293.8	293.8	0.13	0.86	0.85	2.9	2.8	4.0	4.0	—	2.2
F 31 3_332.8	332.8	0.11	0.82	0.81	2.9	2.7	4.0	4.0	—	2.2
F 31 3_374.4	374.4	0.10	0.81	0.79	2.9	2.7	3.9	3.9	—	2.2
F 31 4_418.9	418.9	0.09	0.86	0.85	2.9	2.8	3.9	3.9	—	0.77
F 31 4_462.6	462.6	0.08	0.86	0.84	2.9	2.7	3.9	3.9	—	0.77
F 31 4_527.8	527.8	0.08	0.85	0.84	2.9	2.7	3.9	3.9	—	0.76
F 31 4_578.6	578.6	0.08	0.85	0.84	2.9	2.7	3.9	3.9	—	0.76
F 31 4_619.9	619.9	0.07	0.85	0.83	2.9	2.7	3.9	3.9	—	0.76
F 31 4_685.6	685.6	0.07	0.85	0.83	2.9	2.7	3.9	3.9	—	0.76
F 31 4_762.3	762.3	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75
F 31 4_831.6	831.6	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75
F 31 4_938.2	938.2	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75
F 31 4_1042	1042	0.07	0.84	0.83	2.9	2.7	3.9	3.9	—	0.75
F 31 4_1208	1208	0.06	0.84	0.82	2.9	2.7	3.9	3.9	—	0.75
F 31 4_1368	1368	0.06	0.84	0.82	2.9	2.7	3.9	3.9	—	0.75
F 31 4_1539	1539	0.06	0.84	0.82	2.9	2.7	3.9	3.9	—	0.75



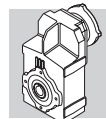
F 31

	i	J (•10 ⁻⁴) [kgm ²]											
		 SERVO											
		60A		60B 80A		95A		80C 95B 110A		95C 110B		130A	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 31 2_6.9	6.9	—	—	—	—	—	—	7.8	8.3	7.6	8.6	7.6	8.6
F 31 2_8.2	8.2	—	—	—	—	—	—	6.5	7.0	6.3	7.3	6.3	7.3
F 31 2_9.0	9.0	—	—	—	—	—	—	6.0	6.5	5.8	6.8	5.8	6.8
F 31 2_10.7	10.7	—	—	—	—	—	—	6.3	6.8	6.2	7.2	6.2	7.2
F 31 2_12.7	12.7	—	—	—	—	—	—	5.4	5.9	5.3	6.3	5.3	6.3
F 31 2_13.9	13.9	—	—	—	—	—	—	5.1	5.6	4.9	5.9	4.9	5.9
F 31 2_16.8	16.8	—	—	—	—	—	—	4.6	5.1	4.4	5.4	4.4	5.4
F 31 2_18.5	18.5	1.8	2.0	1.8	2.2	4.3	4.8	4.2	4.7	4.1	5.1	4.1	5.1
F 31 2_21.1	21.1	1.4	1.6	1.4	1.8	3.9	4.3	3.9	4.4	3.7	4.7	3.7	4.7
F 31 2_23.4	23.4	1.3	1.5	1.3	1.7	3.8	4.3	3.7	4.2	3.6	4.6	3.6	4.6
F 31 2_27.3	27.3	1.1	1.3	1.1	1.5	3.6	4.0	3.5	4.0	3.4	4.4	3.4	4.4
F 31 2_30.1	30.1	0.92	1.2	0.94	1.4	3.5	3.9	3.4	3.9	3.3	4.3	3.3	4.3
F 31 2_34.4	34.4	0.80	1.1	0.82	1.3	3.4	3.8	3.3	3.8	3.2	4.2	3.2	4.2
F 31 2_37.7	37.7	0.74	1.0	0.76	1.2	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1
F 31 2_40.4	40.4	0.69	0.95	0.71	1.1	3.2	3.7	3.2	3.7	3.0	4.0	3.0	4.0
F 31 2_44.6	44.6	0.64	0.90	0.66	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
F 31 3_47.5	47.5	—	—	—	—	—	—	4.3	4.8	4.2	5.2	4.2	5.2
F 31 3_52.1	52.1	—	—	—	—	—	—	4.2	4.7	4.0	5.0	4.0	5.0
F 31 3_62.8	62.8	—	—	—	—	—	—	3.9	4.4	3.8	4.8	3.8	4.8
F 31 3_69.1	69.1	1.3	1.5	1.3	1.7	3.8	4.3	3.7	4.2	3.6	4.6	3.6	4.6
F 31 3_78.9	78.9	0.99	1.3	1.0	1.4	3.5	4.0	3.5	4.0	3.4	4.4	3.4	4.4
F 31 3_87.4	87.4	0.93	1.2	0.95	1.4	3.5	3.9	3.4	3.9	3.3	4.3	3.3	4.3
F 31 3_101.9	101.9	0.81	1.1	0.83	1.3	3.4	3.8	3.3	3.8	3.2	4.2	3.2	4.2
F 31 3_112.5	112.5	0.73	0.99	0.75	1.2	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1
F 31 3_128.4	128.4	0.65	0.91	0.67	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
F 31 3_140.7	140.7	0.62	0.88	0.64	1.1	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0
F 31 3_150.8	150.8	0.58	0.84	0.60	1.0	3.1	3.6	3.1	3.6	2.9	3.9	2.9	3.9
F 31 3_166.8	166.8	0.55	0.81	0.57	1.0	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9
F 31 3_185.4	185.4	0.51	0.77	0.53	0.97	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9
F 31 3_202.3	202.3	0.48	0.74	0.50	0.93	3.0	3.5	3.0	3.5	2.8	3.8	2.8	3.8
F 31 3_228.2	228.2	0.45	0.71	0.47	0.91	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
F 31 3_253.6	253.6	0.43	0.69	0.45	0.89	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
F 31 3_293.8	293.8	0.40	0.66	0.42	0.86	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8
F 31 3_332.8	332.8	0.38	0.64	—	—	—	—	2.9	3.4	2.7	3.7	2.7	3.7
F 31 3_374.4	374.4	0.37	0.63	—	—	—	—	2.9	3.4	2.7	3.7	2.7	3.7
F 31 4_418.9	418.9	0.36	0.62	0.38	0.82	2.9	3.3	2.9	3.4	2.8	3.8	—	—
F 31 4_462.6	462.6	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_527.8	527.8	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_578.6	578.6	0.35	0.61	0.37	0.81	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_619.9	619.9	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_685.6	685.6	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_762.3	762.3	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_831.6	831.6	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_938.2	938.2	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_1042	1042	0.34	0.60	0.36	0.80	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_1208	1208	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_1368	1368	0.33	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.7	3.7	—	—
F 31 4_1539	1539	0.83	0.59	0.35	0.79	2.9	3.3	2.9	3.4	2.7	3.7	—	—



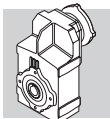
F 41

	i	J (•10 ⁻⁴) [kgm ²]								
			 IEC							
			63	71	80	90	100	112	132	
F 41 2_6.7	6.7	12	—	—	15	15	18	18	29	21
F 41 2_9.1	9.1	7.2	—	—	10	9.8	13	13	24	16
F 41 2_10.8	10.8	8.0	—	—	11	11	13	13	25	17
F 41 2_14.6	14.6	5.0	—	—	7.7	7.6	10	10	21	14
F 41 2_17.1	17.1	3.5	—	—	6.3	6.2	8.9	8.9	20	12
F 41 2_18.9	18.9	3.1	—	—	5.8	5.7	8.5	8.5	20	12
F 41 2_24.1	24.1	2.1	2.8	2.8	4.9	4.8	7.5	7.5	19	11
F 41 2_30.1	30.1	1.5	2.2	2.2	4.3	4.2	6.9	6.9	18	10
F 41 2_38.2	38.2	0.95	1.7	1.7	3.7	3.6	6.3	6.3	17	9.7
F 41 2_47.9	47.9	0.67	1.4	1.4	3.4	3.3	6.0	6.0	17	9.5
F 41 3_51.5	51.5	3.0	—	—	5.7	5.6	8.4	8.4	19	12
F 41 3_60.2	60.2	2.1	—	—	4.9	4.7	7.5	7.5	19	11
F 41 3_66.5	66.5	1.9	—	—	4.7	4.5	7.3	7.3	18	11
F 41 3_84.9	84.9	1.4	2.1	2.1	4.2	4.0	6.8	6.8	18	10
F 41 3_106.0	106.0	1.1	1.8	1.7	3.8	3.7	6.4	6.4	18	9.8
F 41 3_134.4	134.4	0.66	1.4	1.4	3.4	3.3	6.0	6.0	17	9.4
F 41 3_168.7	168.7	0.49	1.2	1.2	3.2	3.1	5.9	5.9	17	9.3
F 41 3_180.7	180.7	0.43	1.1	1.1	3.2	3.1	5.8	5.8	—	9.2
F 41 3_198.9	198.9	0.39	1.1	1.1	3.1	3.0	5.8	5.8	—	9.2
F 41 3_220.1	220.1	0.36	1.1	1.1	3.1	3.0	5.7	5.7	—	9.1
F 41 3_240.1	240.1	0.31	1.0	1.0	3.1	2.9	5.7	5.7	—	9.1
F 41 3_266.9	266.9	0.28	1.0	1.0	3.0	2.9	5.7	5.7	—	9.1
F 41 3_296.6	296.6	0.23	1.0	1.0	3.0	2.9	5.6	5.6	—	9.0
F 41 3_344.8	344.8	0.19	0.92	0.91	2.9	2.8	5.6	5.6	—	9.0
F 41 4_433.7	433.7	0.21	0.94	0.93	3.0	2.8	4.1	4.1	—	1.9
F 41 4_549.8	549.8	0.19	0.92	0.90	2.9	2.8	4.0	4.0	—	1.9
F 41 4_690.1	690.1	0.18	0.91	0.89	2.9	2.8	4.0	4.0	—	1.9
F 41 4_739.4	739.4	0.17	0.90	0.89	2.9	2.8	4.0	4.0	—	1.9
F 41 4_813.8	813.8	0.17	0.90	0.89	2.9	2.8	4.0	4.0	—	1.9
F 41 4_900.5	900.5	0.17	0.90	0.89	2.9	2.8	4.0	4.0	—	1.9
F 41 4_982.4	982.4	0.17	0.90	0.88	2.9	2.8	4.0	4.0	—	1.9
F 41 4_1092	1092	0.16	0.89	0.88	2.9	2.8	4.0	4.0	—	1.9
F 41 4_1213	1213	0.16	0.89	0.88	2.9	2.8	4.0	4.0	—	1.9
F 41 4_1411	1411	0.16	0.89	0.88	2.9	2.8	4.0	4.0	—	1.9



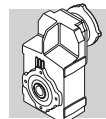
F 41

	i	J (•10 ⁻⁴) [kgm ²]																	
		SERVO																	
		60A		60B 80A		80B		95A		80C 95B 110A		95C 110B		130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 41 2_6.7	6.7	—	—	—	—	—	—	—	—	15	16	15	16	15	16	29	31	29	34
F 41 2_9.1	9.1	—	—	—	—	—	—	—	—	10	11	9.8	11	9.8	11	24	27	24	29
F 41 2_10.8	10.8	—	—	—	—	—	—	—	—	11	12	11	12	11	12	25	27	25	30
F 41 2_14.6	14.6	—	—	—	—	—	—	—	—	7.7	8.2	7.6	8.6	7.6	8.6	22	24	21	26
F 41 2_17.1	17.1	—	—	—	—	—	—	—	—	6.3	6.8	6.2	7.2	6.2	7.2	20	23	20	25
F 41 2_18.9	18.9	—	—	—	—	—	—	—	—	5.8	6.3	5.7	6.7	5.7	6.7	20	23	20	25
F 41 2_24.1	24.1	—	—	—	—	4.9	5.4	4.9	5.4	4.9	5.4	4.8	5.8	4.8	5.8	19	22	19	24
F 41 2_30.1	30.1	—	—	—	—	4.3	4.8	4.3	4.8	4.3	4.8	4.2	5.2	4.2	5.2	18	21	18	23
F 41 2_38.2	38.2	—	—	—	—	3.8	4.2	3.8	4.2	3.7	4.2	3.6	4.6	3.6	4.6	18	20	17	22
F 41 2_47.9	47.9	—	—	—	—	3.5	3.9	3.5	3.9	3.4	3.9	3.3	4.3	3.3	4.3	18	20	17	22
F 41 3_51.5	51.5	—	—	—	—	—	—	—	—	5.7	6.2	5.6	6.6	5.6	6.6	20	22	19	24
F 41 3_60.2	60.2	—	—	—	—	—	—	—	—	4.9	5.4	4.7	5.7	4.7	5.7	19	22	19	24
F 41 3_66.5	66.5	—	—	—	—	—	—	—	—	4.7	5.2	4.5	5.5	4.5	5.5	19	21	18	23
F 41 3_84.9	84.9	—	—	—	—	4.2	4.7	4.2	4.7	4.2	4.7	4.0	5.0	4.0	5.0	18	21	18	23
F 41 3_106.0	106.0	—	—	—	—	3.9	4.4	3.9	4.4	3.8	4.3	3.7	4.7	3.7	4.7	18	21	18	23
F 41 3_134.4	134.4	—	—	—	—	3.5	3.9	3.5	3.9	3.4	3.9	3.3	4.3	3.3	4.3	18	20	17	22
F 41 3_168.7	168.7	—	—	—	—	3.3	3.7	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1	17	20	17	22
F 41 3_180.7	180.7	—	—	—	—	3.3	3.7	3.3	3.7	3.2	3.7	3.1	4.1	3.1	4.1	—	—	—	—
F 41 3_198.9	198.9	—	—	—	—	3.2	3.6	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0	—	—	—	—
F 41 3_220.1	220.1	—	—	—	—	3.2	3.6	3.2	3.6	3.1	3.6	3.0	4.0	3.0	4.0	—	—	—	—
F 41 3_240.1	240.1	—	—	—	—	3.1	3.6	3.1	3.6	3.1	3.6	2.9	3.9	2.9	3.9	—	—	—	—
F 41 3_266.9	266.9	—	—	—	—	3.1	3.5	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9	—	—	—	—
F 41 3_296.6	296.6	—	—	—	—	3.1	3.5	3.1	3.5	3.0	3.5	2.9	3.9	2.9	3.9	—	—	—	—
F 41 3_344.8	344.8	—	—	—	—	3.0	3.4	3.0	3.4	2.9	3.4	2.8	3.8	2.8	3.8	—	—	—	—
F 41 4_433.7	433.7	0.48	0.74	0.50	0.94	—	—	3.0	3.5	3.0	3.5	2.8	3.8	—	—	—	—	—	—
F 41 4_549.8	549.8	0.46	0.72	0.48	0.92	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_690.1	690.1	0.45	0.71	0.47	0.91	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_739.4	739.4	0.44	0.70	0.46	0.90	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_813.8	813.8	0.44	0.70	0.46	0.90	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_900.5	900.5	0.44	0.70	0.46	0.90	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_982.4	982.4	0.44	0.70	0.46	0.90	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_1092	1092	0.43	0.69	0.45	0.89	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_1213	1213	0.43	0.69	0.45	0.89	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—
F 41 4_1411	1411	0.43	0.69	0.45	0.89	—	—	3.0	3.4	2.9	3.4	2.8	3.8	—	—	—	—	—	—



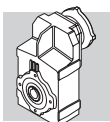
F 51

	i	J (•10 ⁻⁴) [kgm ²]										
			IEC									
			63	71	80	90	100	112	132	160	180	
F 51 2_7.2	7.2	25	—	—	28	28	30	30	42	101	103	34
F 51 2_9.1	9.1	17	—	—	20	19	22	22	33	92	94	26
F 51 2_11.1	11.1	16	—	—	19	19	22	22	33	92	94	25
F 51 2_14.0	14.0	11	—	—	14	14	17	17	28	87	89	20
F 51 2_18.8	18.8	7.0	—	—	9.8	9.6	12	12	24	83	85	16
F 51 2_23.8	23.8	4.5	—	—	7.3	7.2	9.9	9.9	21	80	82	13
F 51 2_30.0	30.0	3.1	3.8	3.8	5.9	5.8	8.5	8.5	20	79	81	12
F 51 2_37.1	37.1	2.2	3.0	3.0	5.0	4.9	7.6	7.6	19	78	80	11
F 51 3_48.9	48.9	6.2	—	—	8.9	8.8	12	12	23	82	84	15
F 51 3_65.8	65.8	4.2	—	—	6.9	6.8	9.6	9.6	21	80	82	13
F 51 3_83.2	83.2	2.7	—	—	5.5	5.4	8.1	8.1	19	78	80	12
F 51 3_105.1	105.1	2.0	2.7	2.7	4.8	4.6	7.4	7.4	19	78	80	11
F 51 3_129.9	129.9	1.5	2.2	2.2	4.3	4.1	6.9	6.9	18	77	79	10
F 51 3_165.6	165.6	0.95	1.7	1.7	3.7	3.6	6.3	6.3	17	76	78	9.7
F 51 3_202.4	202.4	0.72	1.4	1.4	3.5	3.3	6.1	6.1	17	76	78	9.5
F 51 3_216.9	216.9	0.64	1.4	1.3	3.4	3.3	6.0	6.0	—	—	—	9.4
F 51 3_239.8	239.8	0.60	1.3	1.3	3.4	3.2	6.0	6.0	—	—	—	9.4
F 51 3_262.1	262.1	0.53	1.3	1.3	3.3	3.2	5.9	5.9	—	—	—	9.3
F 51 3_285.9	285.9	0.46	1.2	1.2	3.2	3.1	5.8	5.8	—	—	—	9.2
F 51 3_317.3	317.3	0.39	1.1	1.1	3.2	3.0	5.8	5.8	—	—	—	9.2
F 51 3_352.5	352.5	0.28	1.1	1.1	3.1	3.0	5.7	5.7	—	—	—	9.1
F 51 4_429.1	429.1	0.36	1.1	1.1	3.1	3.0	5.7	5.7	—	—	—	2.4
F 51 4_530.5	530.5	0.33	1.1	1.0	3.1	3.0	5.7	5.7	—	—	—	2.4
F 51 4_676.3	676.3	0.30	1.0	1.0	3.1	2.9	5.7	5.7	—	—	—	2.4
F 51 4_826.4	826.4	0.28	1.0	1.0	3.0	2.9	5.7	5.7	—	—	—	2.3
F 51 4_885.5	885.5	0.28	1.0	1.0	3.0	2.9	5.7	5.7	—	—	—	2.3
F 51 4_979.4	979.4	0.28	1.0	1.0	3.0	2.9	5.7	5.7	—	—	—	2.3
F 51 4_1070	1070	0.27	1.0	1.0	3.0	2.9	5.6	5.6	—	—	—	2.3
F 51 4_1168	1168	0.27	1.0	1.0	3.0	2.9	5.6	5.6	—	—	—	2.3
F 51 4_1296	1296	0.26	1.0	1.0	3.0	2.9	5.6	5.6	—	—	—	2.3
F 51 4_1439	1439	0.26	1.0	1.0	3.0	2.9	5.6	5.6	—	—	—	2.3



F 51

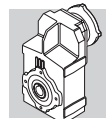
	i	J ($\cdot 10^{-4}$) [kgm ²]											
		 SERVO											
		80B		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 51 2_7.2	7.2	—	—	—	—	28	29	28	23	42	44	42	47
F 51 2_9.1	9.1	—	—	—	—	20	21	19	20	34	36	33	38
F 51 2_11.1	11.1	—	—	—	—	19	20	19	20	33	35	33	38
F 51 2_14.0	14.0	—	—	—	—	14	15	14	15	28	30	28	33
F 51 2_18.8	18.8	—	—	—	—	9.8	10	9.6	11	24	26	24	29
F 51 2_23.8	23.8	—	—	—	—	7.3	7.8	7.2	8.2	21	24	21	26
F 51 2_30.0	30.0	5.9	6.4	5.9	6.4	5.9	6.4	5.8	6.8	20	23	20	25
F 51 2_37.1	37.1	5.0	5.5	5.0	5.5	5.0	5.5	4.9	5.9	19	22	19	24
F 51 3_48.9	48.9	—	—	—	—	8.9	9.4	8.8	9.8	23	26	23	28
F 51 3_65.8	65.8	—	—	—	—	6.9	7.4	6.8	7.8	21	24	21	26
F 51 3_83.2	83.2	—	—	—	—	5.5	6.0	5.4	6.4	20	22	19	24
F 51 3_105.1	105.1	4.8	5.3	4.8	5.3	4.8	5.3	4.6	5.6	19	21	19	24
F 51 3_129.9	129.9	4.3	4.8	4.3	4.8	4.3	4.8	4.1	5.1	18	21	18	23
F 51 3_165.6	165.6	3.8	4.2	3.8	4.2	3.7	4.2	3.6	4.6	18	20	17	22
F 51 3_202.4	202.4	3.5	4.0	3.5	4.0	3.5	4.0	3.3	4.3	18	20	17	22
F 51 3_216.9	216.9	3.5	3.9	3.5	3.9	3.4	3.9	3.3	4.3	—	—	—	—
F 51 3_239.8	239.8	3.4	3.9	3.4	3.9	3.4	3.9	3.2	4.2	—	—	—	—
F 51 3_262.1	262.1	3.4	3.8	3.4	3.8	3.3	3.8	3.2	4.2	—	—	—	—
F 51 3_285.9	285.9	3.3	3.7	3.3	3.7	3.2	3.7	3.1	4.1	—	—	—	—
F 51 3_317.3	317.3	3.2	3.6	3.2	3.6	3.2	3.7	3.0	4.0	—	—	—	—
F 51 3_352.5	352.5	3.1	3.5	3.1	3.5	3.1	3.6	3.0	4.0	—	—	—	—
F 51 4_429.1	429.1	—	—	3.2	3.6	3.1	3.6	3.0	4.0	—	—	—	—
F 51 4_530.5	530.5	—	—	3.2	3.6	3.1	3.6	3.0	4.0	—	—	—	—
F 51 4_676.3	676.3	—	—	3.1	3.6	3.1	3.6	2.9	3.9	—	—	—	—
F 51 4_826.4	826.4	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_885.5	885.5	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_979.4	979.4	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_1070	1070	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_1168	1168	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_1296	1296	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—
F 51 4_1439	1439	—	—	3.1	3.5	3.0	3.5	2.9	3.9	—	—	—	—



F 60

	i	J (•10 ⁻⁴) [kgm ²]										
			IEC									
			63	71	80	90	100	112	132	160	180	
F 60 3_9.0	9.0	40	—	—	—	—	—	—	59	118	116	61
F 60 3_9.7	9.7	38	—	—	—	—	—	—	57	116	114	59
F 60 3_11.8	11.8	25	—	—	28	28	29	29	44	103	101	46
F 60 3_12.7	12.7	24	—	—	27	27	28	28	43	102	100	45
F 60 3_14.5	14.5	18	—	—	21	20	22	22	37	96	94	39
F 60 3_15.7	15.7	17	—	—	20	20	21	21	36	95	93	38
F 60 3_19.1	19.1	10	—	—	13	13	14	14	29	89	86	31
F 60 3_20.7	20.7	9.9	—	—	13	13	14	14	29	88	86	31
F 60 3_23.5	23.5	7.3	—	—	10	10	11	11	26	86	83	28
F 60 3_25.4	25.4	7.1	—	—	9.9	9.9	11	11	26	85	83	28
F 60 3_29.6	29.6	15	—	—	—	—	—	—	34	93	91	36
F 60 3_32.1	32.1	15	—	—	—	—	—	—	34	93	91	36
F 60 3_38.8	38.8	11	—	—	14	13	15	15	30	89	87	32
F 60 3_42.1	42.1	11	—	—	13	13	15	15	29	89	87	31
F 60 3_47.8	47.8	8.2	—	—	11	11	12	12	27	86	84	29
F 60 3_51.8	51.8	8.1	—	—	11	11	12	12	27	86	84	29
F 60 3_63.0	63.0	4.9	—	—	7.7	7.6	8.9	8.9	24	83	81	26
F 60 3_68.3	68.3	4.8	—	—	7.7	7.6	8.9	8.9	24	83	81	26
F 60 3_77.6	77.6	3.7	—	—	6.6	6.5	7.8	7.8	23	82	80	25
F 60 3_84.0	84.0	3.7	—	—	6.5	6.5	7.8	7.8	23	82	80	25
F 60 3_98.2	98.2	2.7	4.2	4.2	5.6	5.5	6.8	6.8	22	81	79	24
F 60 3_106.4	106.4	2.7	4.2	4.2	5.5	5.4	6.8	6.8	22	81	79	24
F 60 3_120.5	120.5	1.8	3.2	3.2	4.6	4.6	5.9	5.9	21	80	78	23
F 60 3_130.5	130.5	1.8	3.2	3.2	4.6	4.6	5.8	5.8	21	80	78	23
F 60 3_150.4	150.4	1.3	2.7	2.7	4.1	4.1	5.4	5.4	20	80	77	22
F 60 3_162.9	162.9	1.3	2.7	2.7	4.1	4.1	5.4	5.4	20	80	77	22
F 60 3_185.9	185.9	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	79	77	22
F 60 3_201.4	201.4	0.90	2.4	2.4	3.8	3.7	5.0	5.0	20	79	77	22
F 60 3_217.6	217.6	0.70	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	22
F 60 3_235.8	235.8	0.70	2.2	2.2	3.6	3.5	4.8	4.8	—	—	—	22
F 60 3_259.1	259.1	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	22
F 60 3_280.7	280.7	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	22

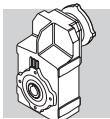
Para los valores de los momentos de inercia correspondientes a los reductores de 4 etapas, consultar con nuestro Servicio Técnico.



F 60

	i	J ($\cdot 10^{-4}$) [kgm ²]									
		 SERVO									
		95A		80C 95B 110A		95C 110B 130A		130B 180A		180B	
		SK	SC	SK	SC	SK	SC	SK	SC	SK	SC
F 60 3_9.0	9.0	—	—	—	—	—	—	57	59	59	64
F 60 3_9.7	9.7	—	—	—	—	—	—	55	57	57	62
F 60 3_11.8	11.8	—	—	28	29	28	29	42	44	44	49
F 60 3_12.7	12.7	—	—	27	28	27	28	41	43	43	48
F 60 3_14.5	14.5	—	—	21	22	20	21	35	37	37	42
F 60 3_15.7	15.7	—	—	20	21	20	21	34	36	36	41
F 60 3_19.1	19.1	—	—	13	14	13	14	27	29	29	34
F 60 3_20.7	20.7	—	—	13	14	13	14	27	29	29	34
F 60 3_23.5	23.5	—	—	10	11	10	11	24	27	26	31
F 60 3_25.4	25.4	—	—	9.9	10	9.9	11	24	27	26	31
F 60 3_29.6	29.6	—	—	—	—	—	—	32	34	34	39
F 60 3_32.1	32.1	—	—	—	—	—	—	32	34	34	39
F 60 3_38.8	38.8	—	—	14	15	13	14	28	30	30	35
F 60 3_42.1	42.1	—	—	13	14	13	14	28	30	29	34
F 60 3_47.8	47.8	—	—	11	12	11	12	25	28	27	32
F 60 3_51.8	51.8	—	—	11	12	11	12	25	28	27	32
F 60 3_63.0	63.0	—	—	7.7	8.2	7.6	8.6	22	24	24	29
F 60 3_68.3	68.3	—	—	7.7	8.2	7.6	8.6	22	24	24	29
F 60 3_77.6	77.6	—	—	6.6	7.1	6.5	7.5	21	23	23	28
F 60 3_84.0	84.0	—	—	6.5	7.0	6.5	7.5	21	23	23	28
F 60 3_98.2	98.2	—	—	5.6	6.1	5.5	6.5	20	22	22	27
F 60 3_106.4	106.4	5.5	6.0	5.5	6.0	5.4	6.4	20	22	22	27
F 60 3_120.5	120.5	2.2	2.7	4.6	5.1	4.6	5.6	19	21	21	26
F 60 3_130.5	130.5	2.2	2.7	4.6	5.1	4.6	5.6	19	21	21	26
F 60 3_150.4	150.4	4.1	4.6	4.1	4.6	4.1	5.1	18	21	20	25
F 60 3_162.9	162.9	4.1	4.6	4.1	4.6	4.1	5.1	18	21	20	25
F 60 3_185.9	185.9	3.7	4.2	3.8	4.3	3.7	4.7	18	20	20	25
F 60 3_201.4	201.4	3.7	4.2	3.8	4.3	3.7	4.7	18	20	20	25
F 60 3_217.6	217.6	3.5	4.0	3.6	4.1	3.5	4.5	—	—	—	—
F 60 3_235.8	235.8	3.5	4.0	3.6	4.1	3.5	4.5	—	—	—	—
F 60 3_259.1	259.1	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—
F 60 3_280.7	280.7	3.3	3.8	3.4	3.9	3.3	4.3	—	—	—	—

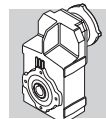
Para los valores de los momentos de inercia correspondientes a los reductores de 4 etapas, consultar con nuestro Servicio Técnico.



F 70

	i	J (•10 ⁻⁴) [kgm ²]									
			 IEC								
			80	90	100	112	132	160	180	200	
F 70 3_10.0	10.0	—	—	—	—	—	—	169	167	176	133
F 70 3_10.9	10.9	—	—	—	—	—	—	166	163	173	129
F 70 3_12.8	12.8	—	—	—	—	—	—	139	137	146	102
F 70 3_13.9	13.9	—	—	—	—	—	—	137	135	144	100
F 70 3_16.3	16.3	39	—	—	—	—	58	117	115	124	80
F 70 3_17.7	17.7	37	—	—	—	—	56	116	113	123	79
F 70 3_20.9	20.9	26	—	—	—	—	45	105	102	—	68
F 70 3_22.6	22.6	26	—	—	—	—	44	104	102	—	67
F 70 3_24.6	24.6	21	—	—	—	—	40	99	97	—	62
F 70 3_27.7	27.7	—	—	—	—	—	—	128	126	135	73
F 70 3_30.0	30.0	—	—	—	—	—	—	127	125	134	73
F 70 3_35.4	35.4	—	—	—	—	—	—	114	112	121	77
F 70 3_38.4	38.4	—	—	—	—	—	—	114	111	121	77
F 70 3_45.2	45.2	23	—	—	—	—	42	101	99	108	65
F 70 3_49.0	49.0	23	—	—	—	—	42	101	99	108	65
F 70 3_57.7	57.7	17	—	—	—	—	36	95	93	—	58
F 70 3_62.5	62.5	17	—	—	—	—	36	95	93	—	58
F 70 3_67.9	67.9	14	—	—	—	—	33	92	90	—	55
F 70 3_73.6	73.6	14	—	—	—	—	33	92	90	—	55
F 70 3_85.4	85.4	9.0	11	11	13	13	28	87	85	—	50
F 70 3_92.5	92.5	9.0	11	11	13	13	28	87	85	—	50
F 70 3_101.2	101.2	6.3	8.9	8.8	10	10	25	85	82	—	47
F 70 3_109.6	109.6	6.3	8.9	8.8	10	10	25	85	82	—	47
F 70 3_122.7	122.7	5.1	7.9	7.8	9.1	9.1	24	83	81	—	46
F 70 3_133.0	133.0	5.1	7.9	7.8	9.1	9.1	24	83	81	—	46
F 70 3_153.8	153.8	3.2	6.0	6.0	7.3	7.3	22	81	79	—	44
F 70 3_166.7	166.7	3.2	6.0	6.0	7.3	7.3	22	81	79	—	44
F 70 3_180.9	180.9	2.3	5.1	5.1	6.3	6.3	21	81	78	—	43
F 70 3_196.0	196.0	2.3	5.1	5.0	6.3	6.3	21	81	78	—	43

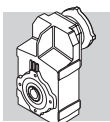
Para los valores de los momentos de inercia correspondientes a los reductores de 4 etapas, consultar con nuestro Servicio Técnico.



F 80

	i	J (•10 ⁻⁴) [kgm ²]										
			 IEC									
			80	90	100	112	132	160	180	200	225	
F 80 3_10.3	10.3	—	—	—	—	—	—	—	286	300	578	252
F 80 3_11.2	11.2	—	—	—	—	—	—	—	277	291	569	244
F 80 3_12.9	12.9	—	—	—	—	—	—	217	218	231	509	184
F 80 3_14.0	14.0	—	—	—	—	—	—	212	212	226	504	178
F 80 3_16.2	16.2	—	—	—	—	—	—	173	171	180	464	136
F 80 3_17.6	17.6	—	—	—	—	—	—	170	167	177	461	133
F 80 3_20.3	20.3	60	—	—	—	—	79	139	136	146	431	102
F 80 3_22.0	22.0	58	—	—	—	—	77	136	134	143	429	100
F 80 3_25.2	25.2	43	—	—	—	—	62	121	119	150	413	84
F 80 3_28.8	28.8	—	—	—	—	—	—	—	189	203	480	155
F 80 3_31.3	31.3	—	—	—	—	—	—	—	188	201	479	154
F 80 3_36.0	36.0	—	—	—	—	—	—	155	155	169	447	121
F 80 3_39.0	39.0	—	—	—	—	—	—	154	154	168	446	121
F 80 3_45.3	45.3	—	—	—	—	—	—	133	132	141	425	97
F 80 3_49.1	49.1	—	—	—	—	—	—	133	131	140	425	97
F 80 3_56.7	56.7	35	—	—	—	—	54	113	111	120	406	77
F 80 3_61.5	61.5	35	—	—	—	—	54	113	111	120	406	76
F 80 3_70.4	70.4	27	—	—	—	—	46	105	103	133	397	68
F 80 3_76.3	76.3	27	—	—	—	—	45	105	103	133	396	68
F 80 3_85.2	85.2	20	—	—	—	—	39	99	96	126	389	62
F 80 3_92.3	92.3	20	—	—	—	—	39	99	96	126	389	61
F 80 3_105.0	105.0	14	16	16	17	17	32	92	90	119	383	55
F 80 3_113.8	113.8	14	16	16	17	17	32	92	90	119	382	55
F 80 3_122.5	122.5	13	15	15	17	17	32	91	89	118	381	54
F 80 3_132.7	132.7	13	15	15	16	16	31	91	89	118	381	54
F 80 3_147.9	147.9	8.5	11	11	13	13	27	87	85	—	—	50
F 80 3_160.2	160.2	8.5	11	11	13	13	27	87	84	—	—	50
F 80 3_184.6	184.6	5.1	7.9	7.8	9.1	9.1	24	83	81	—	—	46
F 80 3_200.0	200.0	5.0	7.9	7.8	9.1	9.1	24	83	81	—	—	46

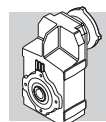
Para los valores de los momentos de inercia correspondientes a los reductores de 4 etapas, consultar con nuestro Servicio Técnico.



F 90

	i	J (•10 ⁻⁴) [kgm ²]											
			80	90	100	112	132	160	180	200	225	250	
F 90 3_10.3	10.3	—	—	—	—	—	—	—	549	559	843	870	850
F 90 3_11.1	11.1	—	—	—	—	—	—	—	529	539	823	850	830
F 90 3_13.4	13.4	—	—	—	—	—	—	—	373	383	667	694	674
F 90 3_14.5	14.5	—	—	—	—	—	—	—	361	371	655	682	662
F 90 3_16.5	16.5	—	—	—	—	—	—	—	286	296	580	607	587
F 90 3_17.9	17.9	—	—	—	—	—	—	—	278	288	572	599	579
F 90 3_20.6	20.6	—	—	—	—	—	—	224	222	232	516	542	513
F 90 3_22.3	22.3	—	—	—	—	—	—	220	217	227	511	537	508
F 90 3_25.4	25.4	103	—	—	—	—	122	181	179	188	474	500	471
F 90 3_28.6	28.6	—	—	—	—	—	—	—	291	301	585	613	593
F 90 3_31.0	31.0	—	—	—	—	—	—	—	289	299	583	610	590
F 90 3_37.4	37.4	—	—	—	—	—	—	—	222	232	516	543	523
F 90 3_40.5	40.5	—	—	—	—	—	—	—	220	230	514	541	521
F 90 3_46.1	46.1	—	—	—	—	—	—	—	186	196	480	507	487
F 90 3_49.9	49.9	—	—	—	—	—	—	—	185	195	479	506	486
F 90 3_57.3	57.3	—	—	—	—	—	—	161	158	168	452	479	450
F 90 3_62.1	62.1	—	—	—	—	—	—	160	158	167	451	478	449
F 90 3_70.8	70.8	61	—	—	—	—	80	139	137	146	432	458	429
F 90 3_76.7	76.7	60	—	—	—	—	79	139	136	146	431	458	429
F 90 3_88.4	88.4	44	—	—	—	—	63	123	120	151	414	441	412
F 90 3_95.8	95.8	44	—	—	—	—	63	122	120	151	414	441	412
F 90 3_103.3	103.3	41	—	—	—	—	59	119	117	146	410	436	408
F 90 3_111.9	111.9	40	—	—	—	—	59	119	116	146	409	436	407
F 90 3_126.8	126.8	26	29	29	30	30	45	105	102	132	395	422	393
F 90 3_137.3	137.3	26	29	29	30	30	45	104	102	132	395	422	393
F 90 3_150.3	150.3	21	24	24	25	25	40	100	97	127	390	417	388
F 90 3_162.8	162.8	21	24	24	25	25	40	100	97	127	390	417	388
F 90 3_179.2	179.2	14	16	16	18	18	33	92	90	—	—	—	381
F 90 3_194.2	194.2	14	16	16	17	17	33	92	90	—	—	—	381

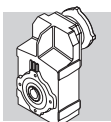
Para los valores de los momentos de inercia correspondientes a los reductores de 4 etapas, consultar con nuestro Servicio Técnico.



64 RELACIONES EXACTAS

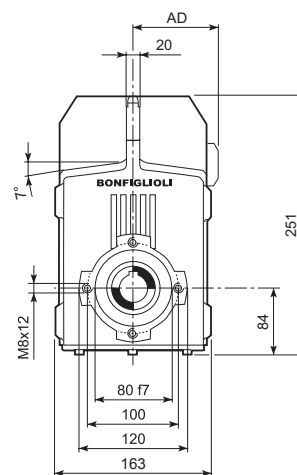
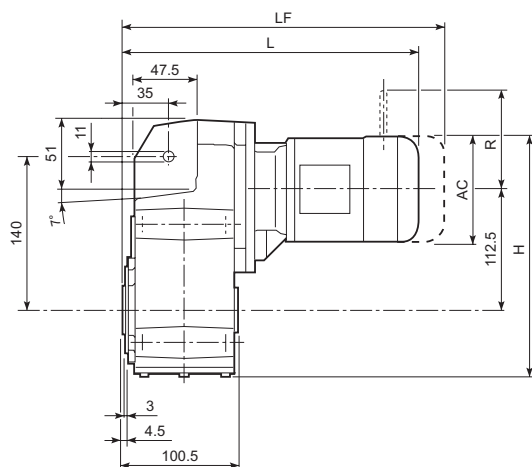
iN	F 10	F 20	F 25	F 31	F 41	F 51	F 60	F 70	F 80	F 90
6.3		6.41210								
7.1	7.40443		6.86957	6.94907	6.72727	7.19408				
8.0		7.83478	8.39375	8.22917						
9.0	8.58204	8.73227	9.35526	9.01630	9.13580	9.05114	8.96000			
10.0	9.76974	10.03069	10.62451	10.74747			9.70667	10.01538	10.33846	10.26577
11.2	11.53759	11.23370			10.77273	11.11005	11.75320	10.85000	11.20000	11.12125
12.5	13.02632		12.98182	12.72727		13.97796	12.73263	12.81731	12.90240	13.41346
14.0	14.64777	14.79842	14.46890	13.94466	14.62963		14.47385	13.88542	13.97760	14.53125
16.0	16.97738		16.62032	16.80000	17.11667		15.68000	16.34455	16.24615	16.52538
18.0		18.08182	18.61364	18.48804	18.89130	18.82155	19.06872	17.70660	17.60000	17.90250
20.0	19.32692	20.15311	21.81818	21.11230			20.65778	20.86538	20.33231	20.56731
22.4	22.82418	23.14973	23.75758	23.38636		23.79447	23.46381	22.60417	22.02667	22.28125
25.0	25.76923	25.92614	27.20455	27.27273	24.11579		25.41913	24.55695	25.22585	25.38622
28.0	29.63462	30.38961	30.03636	30.12121	30.11875	30.03828	29.61538	27.69231	28.84615	28.61169
31.5	32.98462	33.09091	32.18182	34.36364			32.08333	30.00000	31.25000	30.99600
35.5	35.34066	37.89205	36.41958	37.67273	38.18333	37.13636	38.84771	35.43956	36.00000	37.38462
40.0	39.64497	41.83636	40.72727	40.36364			42.08502	38.39286	39.00000	40.50000
45.0	44.66667	44.82468	45.56607	44.64336	47.92667		47.84024	45.19231	45.32967	46.05785
50.0	48.72727	50.72727	50.78571	47.54630	51.49270	48.89965	51.82692	48.95833	49.10714	49.89600
56.0	56.69231	56.72727	58.33718	52.09420	60.24646		63.02761	57.69231	56.73077	57.32308
63.0	62.99145	61.88430	65.33371	62.76111	66.49275	65.84416	68.27991	62.50000	61.45833	62.10000
71.0	71.12308	69.13636	76.58163	69.06725			77.55467	73.55769	70.38462	70.75385
80.0	81.31624	76.81818	83.38889	78.87092	84.88166	83.24111	84.01756	85.38462	76.25000	76.65000
90.0	91.48077	90.40909	95.48772	87.36632			98.19838	92.50000	92.30769	88.39385
100.0	106.02198	101.63636	105.42738	101.88492	106.01061	105.08407	106.38158	101.18343	105.00000	103.33491
112.2		114.34091	112.95791	112.52623			120.45488	109.61538	113.75000	111.94615
125.5	127.12821	132.19481	127.83242	128.37500	134.39596	129.91558	130.49279	122.72727	122.48521	126.77538
140.0		156.30469	142.95238	140.73704			150.35503	132.95455	132.69231	150.30533
160.0		172.57500	155.94805	166.77778	168.69010	165.62338	162.88462	166.66667	160.22727	162.83077
180.0		184.90179	174.22321	185.43056	180.73939	202.39481	185.89349	180.94406	184.61538	179.21958
200.0		209.25000	193.58135	202.28788	198.92028	216.85158	201.38462	196.02273	200.00000	194.15455
225.0		234.00000	227.83036	228.22222	220.13131	239.84416	217.64679	216.52422	218.49174	213.59178
250.0		255.27273	256.12302	253.58025	240.14325	262.11039	259.08284	234.56790	273.89277	231.39109
280.0		285.18750	288.13839	293.83611	266.93818	285.93861	280.67308	280.93645	296.71717	268.72770
315.0		316.87500	333.13010	332.82407	296.59798	317.26753	315.38899	304.34783	353.67893	291.12168
355.0		372.93750		374.42708	344.79515	352.51948	341.67140	372.46964	383.15217	361.84615
400.0		419.25000	393.88686	418.86023		429.09330	399.34008	403.50877	451.49061	392.00000
450.0		471.65625	434.88795	462.60785	433.67975		432.61842	471.15385	489.11483	457.45099
500.0			465.95137	527.76389			489.84985	510.41667	563.87675	495.57191
560.0		545.30357	527.30872	578.58560	549.80165	530.48864	530.67067	606.83761	610.86648	577.48888
630.0			589.67857	619.91314	690.09587	676.29545	611.44379	657.40741	714.86014	625.61296
710.0			643.28571	685.64198	739.38843	826.44545	755.96686	758.97436	774.43182	713.95030
800.0			718.67076	762.32562	813.76478	885.47727	818.96410	822.22222	897.27273	773.44615
900.0			798.52307	831.62795	900.53719	979.36364	885.09695	899.40828	972.04545	910.18225
1000.0			939.80022	938.24691	982.40421	1070.28409	958.85503	974.35897	1058.06885	986.03077
1125.0			1056.50744	1042.49657	1092.01983	1167.58264	1053.60355	1090.90909	1146.24126	1112.25941
1250.0			1188.57087	1207.99290	1213.35537	1295.50909	1141.40385	1181.81818	1277.33630	1204.94769
1400.0			1374.16167	1368.27675	1410.52562	1439.45455		1367.52137	1383.78099	1427.90059
1600.0				1539.31134				1584.61538	1577.62238	1571.37386
1800.0								1716.66667	1709.09091	1702.32168
2000.0								2019.23077	1833.98601	1937.26864
2250.0								2187.50000	1986.81818	2098.70769



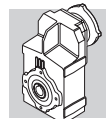


65 DIMENSIONES

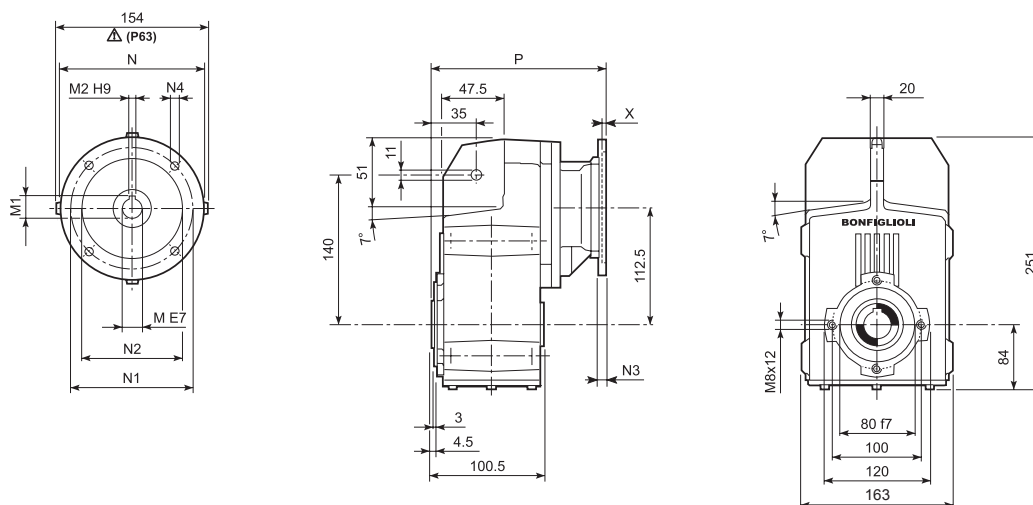
F 10...M



								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD		LF		R	AD	R	AD
F 10 2	S05	M05	121	220.5	311.5	95	12	377.5	13	96	122	116	95
F 10 2	S1	M1	138	265.5	340.5	108	14	401.5	17	103	135	124	108
F 10 2	S2	M2S	156	274.5	369.5	119	18	439.5	21	129	146	134	119
F 10 2	S3	M3S	195	294	412.5	142	22	508.5	30	160	158	160	142
F 10 2	S3	M3L	195	294	444.5	142	24	535.5	31	160	158	160	142

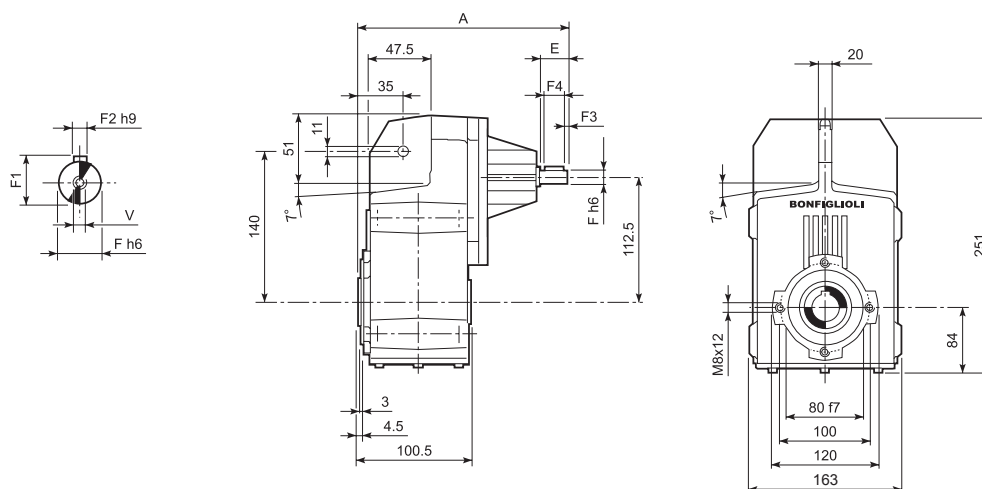


F 10...P(IEC)

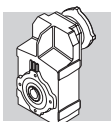


		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 10 2	P63	11	12.8	4	140	115	95	—	M8x19	4	185.5	8
F 10 2	P71	14	16.3	5	160	130	110	—	M8x16	4.5	185.5	8
F 10 2	P80	19	21.8	6	200	165	130	—	M10x14.5	4	205	9
F 10 2	P90	24	27.3	8	200	165	130	—	M10x14.5	4	205	9
F 10 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	215	13
F 10 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	215	13

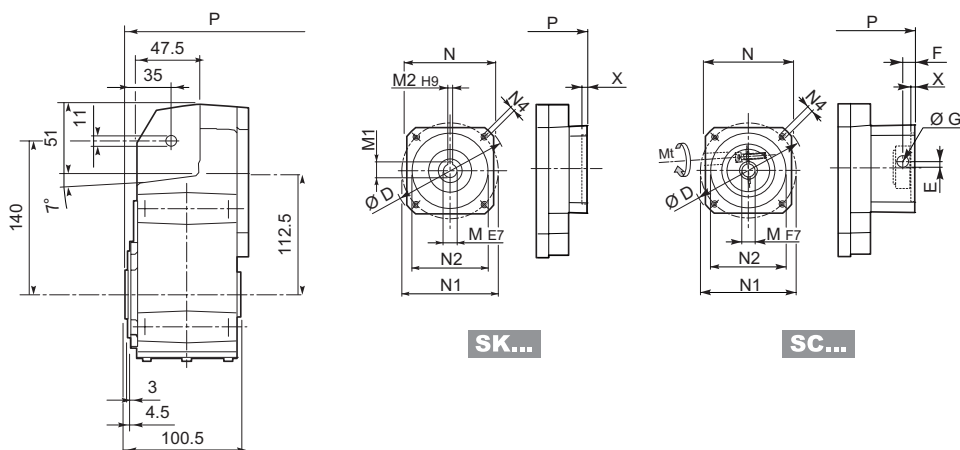
F 10...HS



		A	E	F	F1	F2	F3	F4	V	Kg
F 10 2	HS	192	40	16	18	5	2.5	35	M6x16	7.5

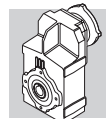


F 10...SK / SC



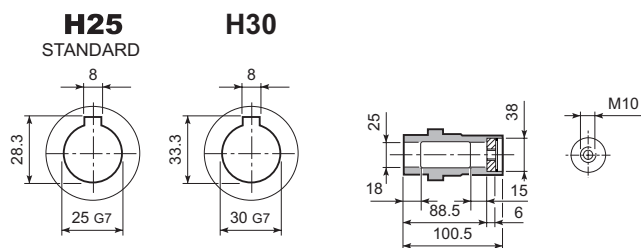
		D	M	M1	M2	N	N1	N2	N4	X	P	kg
F 10 2	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	157	8
F 10 2	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	164	8
F 10 2	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	164	8
F 10 2	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	205	9
F 10 2	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	205	9
F 10 2	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	205	9
F 10 2	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	205	9
F 10 2	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	205	9
F 10 2	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	205	9

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	P	kg
F 10 2	SC 60A	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	184	8
F 10 2	SC 60B	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	184	9
F 10 2	SC 80A	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	184	9
F 10 2	SC 80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	228.5	10
F 10 2	SC 95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	228.5	10
F 10 2	SC 95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	228.5	10
F 10 2	SC 95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	228.5	10
F 10 2	SC 110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	228.5	11
F 10 2	SC 110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	228.5	11

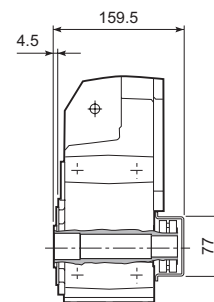
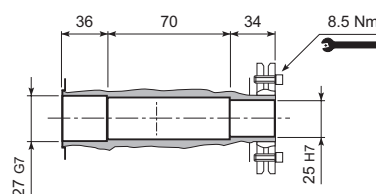


F 10

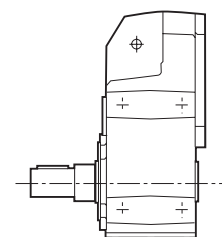
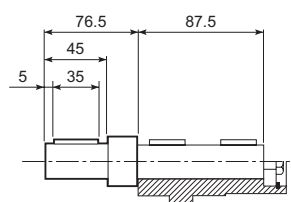
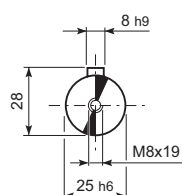
F 10...H



F 10...S

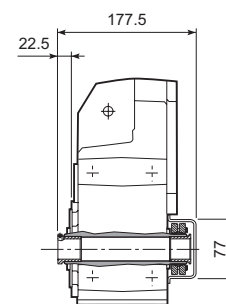
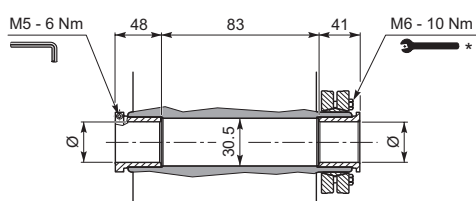


F 10...R

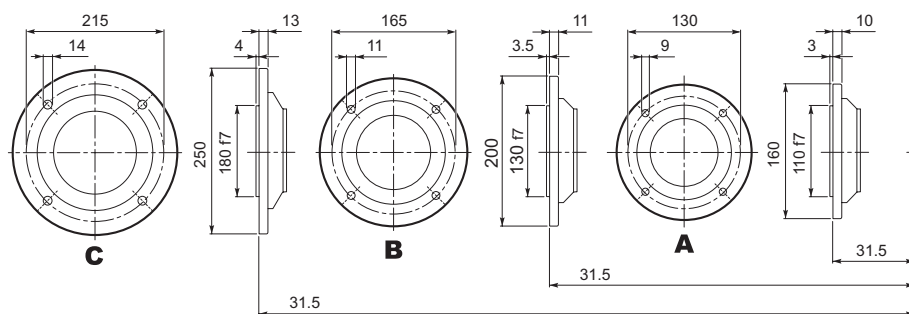


F 10...QF

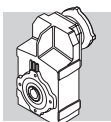
	Ø
QF25	25
QF30	30



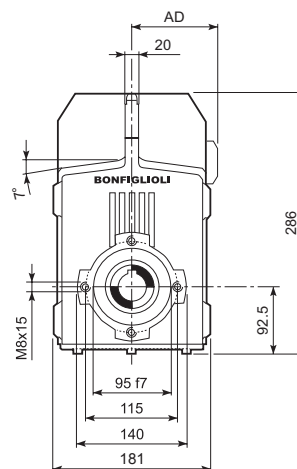
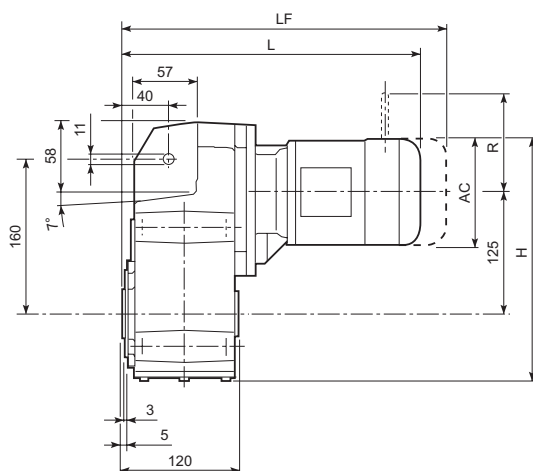
F 10...F...



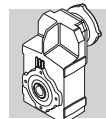
* Atenersse a las INSTRUCCIONES DE MONTAJE suministradas con el reductor.



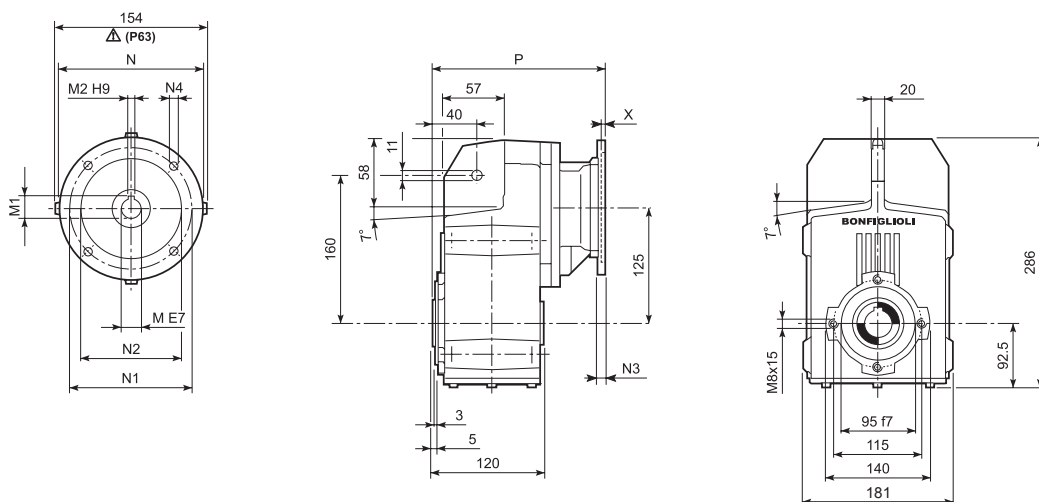
F 20...M



									M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD			LF		R	AD	R	AD
F 20 2	S05	M05	121	278.2	323.5	95	15		389.5	17	96	122	116	95
F 20 2	S1	M1	138	286.7	352.5	108	17		413.5	20	103	135	124	108
F 20 2	S2	M2S	156	295.7	381.5	119	21		451.5	25	129	146	134	119
F 20 2	S3	M3S	195	315.2	424.5	142	26		520.5	33	160	158	160	142
F 20 2	S3	M3L	195	315.2	456.5	142	31		547.5	38	160	158	160	142
F 20 3	S05	M05	121	278.2	379	95	17		445	18	96	122	116	95
F 20 3	S1	M1	138	286.7	408	108	19		469	21	103	135	124	108
F 20 3	S2	M2S	156	295.7	437	119	22		507	26	129	146	134	119
F 20 3	S3	M3S	195	315.2	480	142	27		576	34	160	158	160	142
F 20 3	S3	M3L	195	315.2	512	142	32		603	39	160	158	160	142

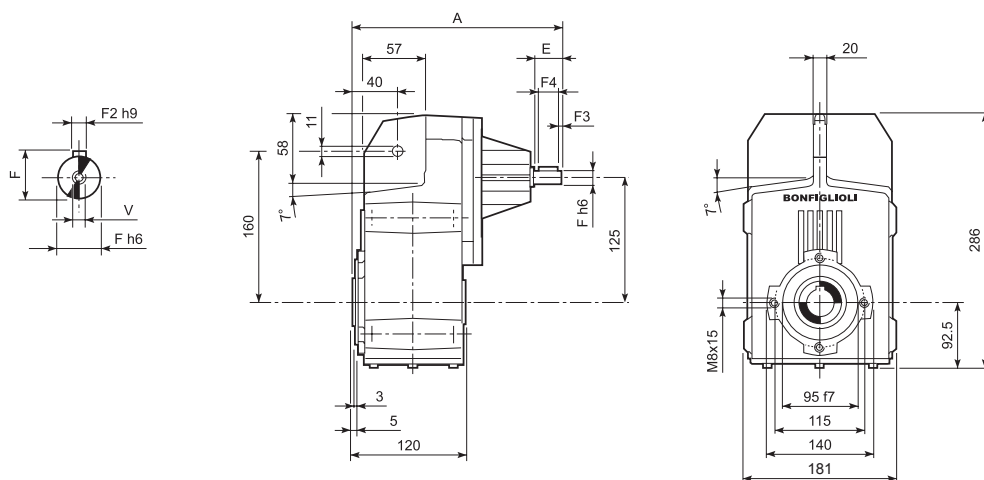


F 20...P(IEC)

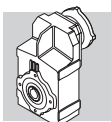


		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 20 2	P63	11	12.8	4	140	115	95	—	M8x19	4	197.5	12
F 20 2	P71	14	16.3	5	160	130	110	—	M8x16	4.5	197.5	12
F 20 2	P80	19	21.8	6	200	165	130	—	M10x14.5	4	217	13
F 20 2	P90	24	27.3	8	200	165	130	—	M10x14.5	4	217	12
F 20 2	P100	28	31.3	8	250	215	180	—	M12x16	4.5	227	16
F 20 2	P112	28	31.3	8	250	215	180	—	M12x16	4.5	227	16
F 20 3	P63	11	12.8	4	140	115	95	—	M8x19	4	253	13
F 20 3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	253	13
F 20 3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	272.5	14
F 20 3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	272.5	14
F 20 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	282.5	18
F 20 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	282.5	18

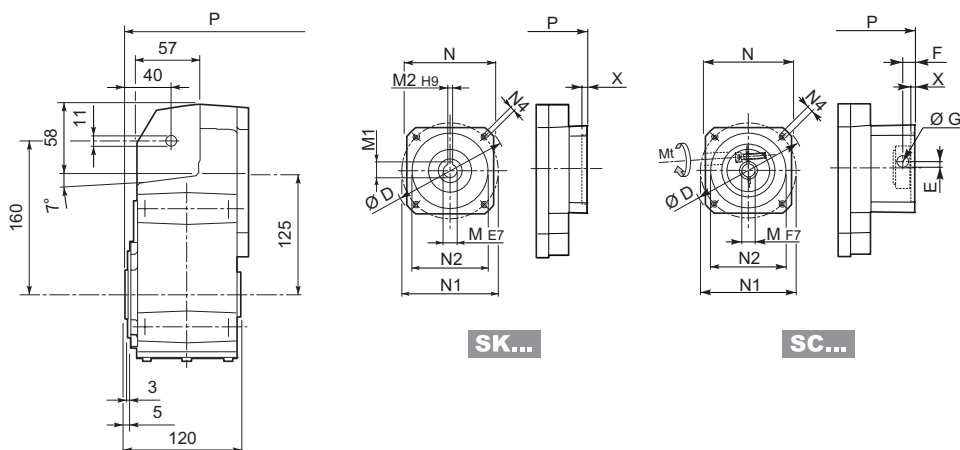
F 20...HS



		A	E	F	F1	F2	F3	F4	V	Kg
F 20 2	HS	247.5	40	19	21.5	6	2.5	35	M6x16	11.5
F 20 3		260	40	16	18	5	2.5	35	M6x16	12.4

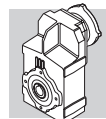


F 20...SK / SC



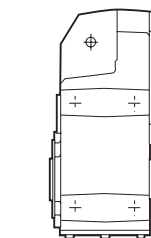
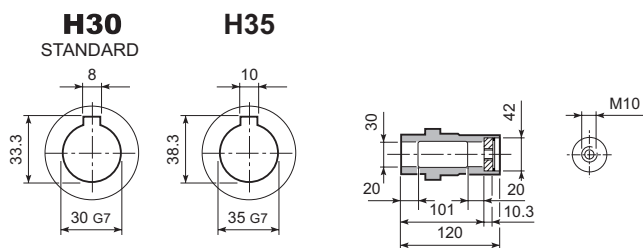
		D	M	M1	M2	N	N1	N2	N4	X	2x 		3x 	
F 20 2/3	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	169	11	224.5	12
F 20 2/3	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	176	12	231.5	13
F 20 2/3	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	217	12	231.5	13
F 20 2/3	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	217	13	272.5	14
F 20 2/3	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	217	13	272.5	14
F 20 2/3	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	217	13	272.5	14
F 20 2/3	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	217	13	272.5	14
F 20 2/3	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	217	13	272.5	14
F 20 2/3	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	217	13	272.5	14

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2x 		3x 	
F 20 2/3	SC 60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	196	12	251.5	13
F 20 2/3	SC 60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	196	13	251.5	14
F 20 2/3	SC 80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	196	13	251.5	14
F 20 2/3	SC 80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	240.5	14	296	15
F 20 2/3	SC 95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	240.5	14	296	15
F 20 2/3	SC 95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	240.5	14	296	15
F 20 2/3	SC 95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	240.5	14	296	15
F 20 2/3	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	240.5	15	296	16
F 20 2/3	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	240.5	15	296	16

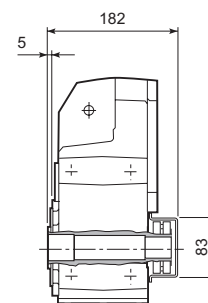
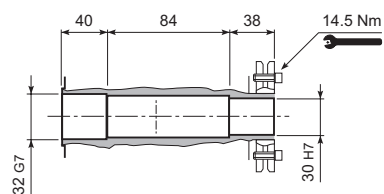


F 20

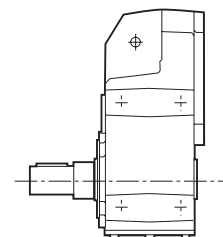
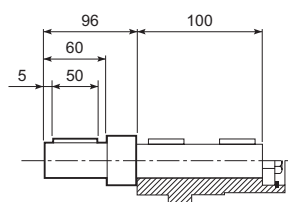
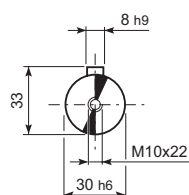
F 20...H



F 20...S

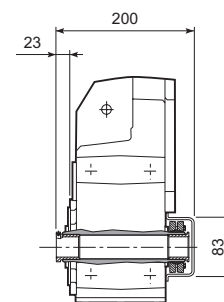
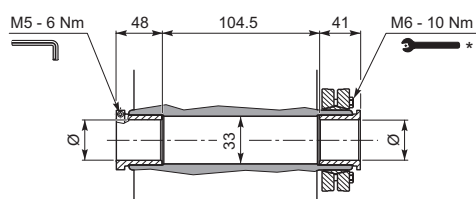


F 20...R

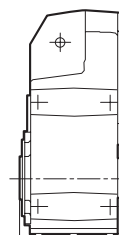
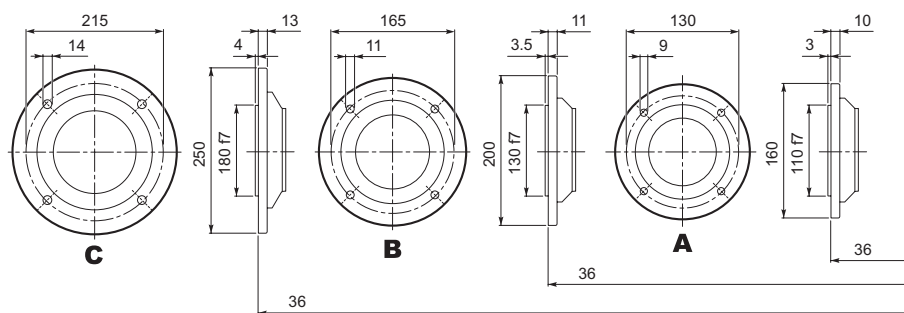


F 20...QF

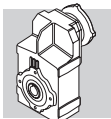
	Ø
QF25	25
QF30	30



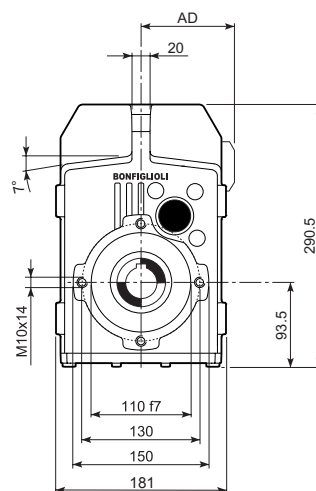
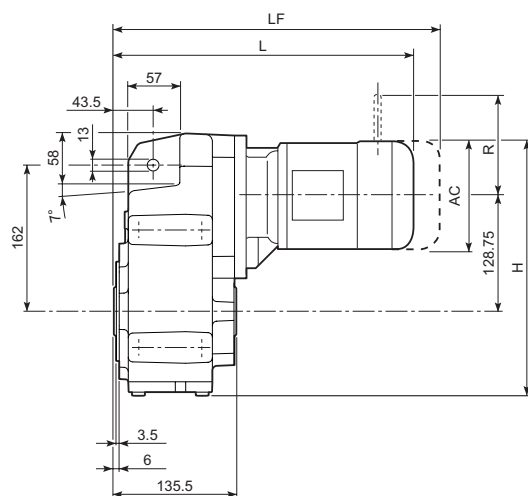
F 20...F...



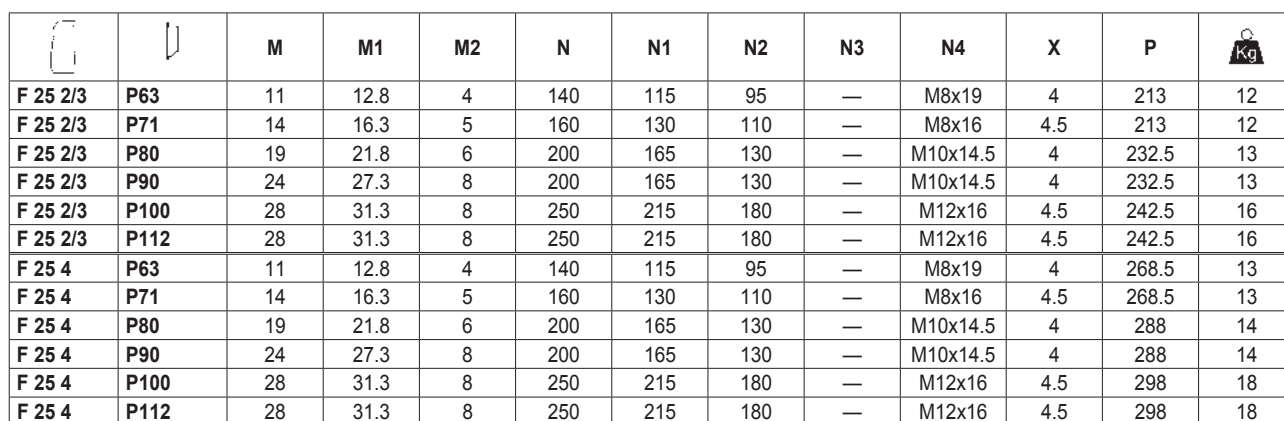
* Atenerse a las INSTRUCCIONES DE MONTAJE suministradas con el reductor.



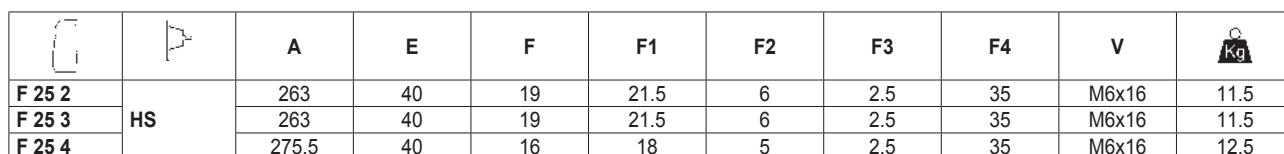
F 25...M

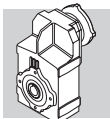


								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD		LF		R	AD	R	AD
F 25 2/3	S05	M05	121	283	339	95	15	405	17	96	122	116	95
F 25 2/3	S1	M1	138	291.5	368	108	17	429	20	103	135	124	108
F 25 2/3	S2	M2S	156	300.5	397	119	21	467	25	129	146	134	119
F 25 2/3	S3	M3S	195	320	440	142	26	536	33	160	158	160	142
F 25 2/3	S3	M3L	195	320	472	142	31	563	38	160	158	160	142
F 25 4	S05	M05	121	283	394.5	95	17	460.5	18	96	122	116	95
F 25 4	S1	M1	138	291.5	423.5	108	19	484.5	21	103	135	124	108
F 25 4	S2	M2S	156	300.5	452.5	119	22	522.5	26	129	146	134	119
F 25 4	S3	M3S	195	320	495.5	142	27	591.5	34	160	158	160	142
F 25 4	S3	M3L	195	320	527.5	142	32	618.5	39	160	158	160	142

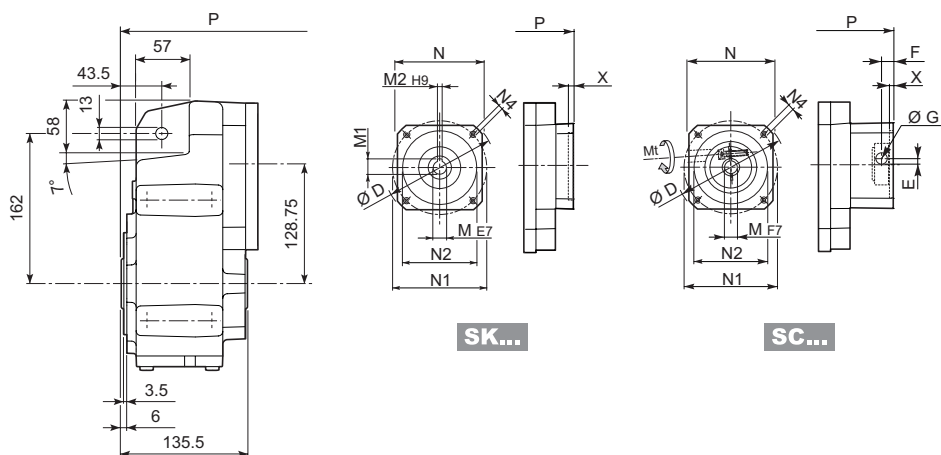


F 25...HS



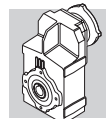


F 25...SK / SC



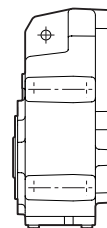
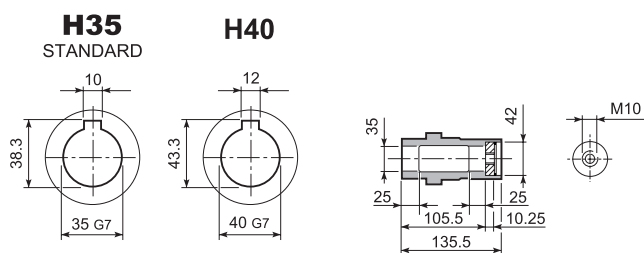
		D	M	M1	M2	N	N1	N2	N4	X	2/3x		4x	
F 25 2/3/4	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	184.5	11	240	12
F 25 2/3/4	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	191.5	12	247	13
F 25 2/3/4	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	191.5	12	247	13
F 25 2/3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	232.5	13	288	14
F 25 2/3/4	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	232.5	13	288	14
F 25 2/3/4	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	232.5	13	288	14
F 25 2/3/4	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	232.5	13	288	14
F 25 2/3/4	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	232.5	13	288	14
F 25 2/3/4	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	232.5	13	288	14

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2/3x		4x	
F 25 2/3/4	SC 60A	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	211.5	12	267	13
F 25 2/3/4	SC 60B	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	211.5	13	267	14
F 25 2/3/4	SC 80A	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	211.5	13	267	14
F 25 2/3/4	SC 80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	256	14	311.5	15
F 25 2/3/4	SC 95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	256	14	311.5	15
F 25 2/3/4	SC 95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	256	14	311.5	15
F 25 2/3/4	SC 95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	256	14	311.5	15
F 25 2/3/4	SC 110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	256	15	311.5	16
F 25 2/3/4	SC 110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	256	15	311.5	16

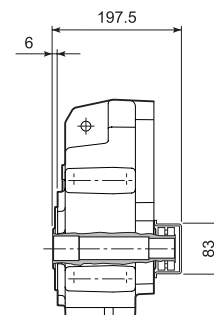
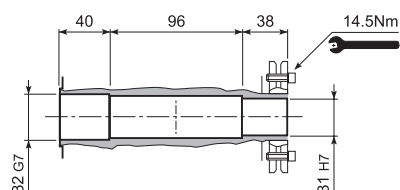


F 25

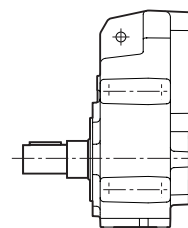
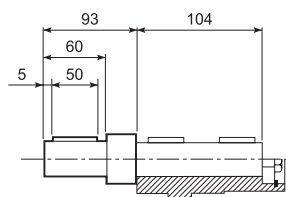
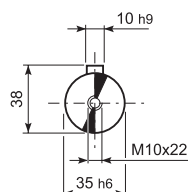
F 25...H



F 25...S



F 25...R

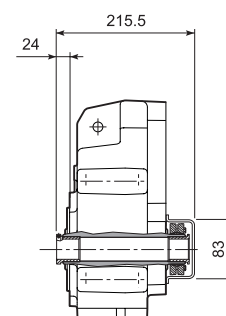
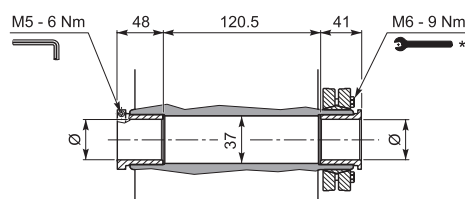


F 25...QF

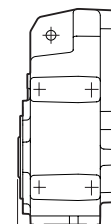
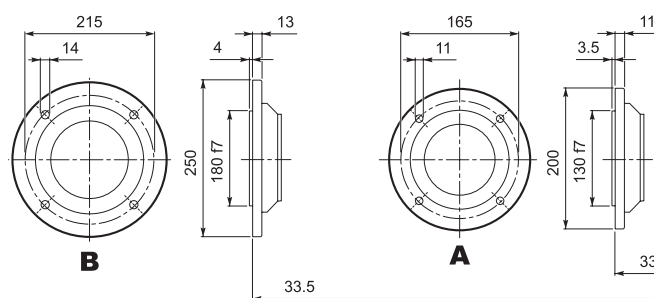
	Ø
QF30	30
QF32	32



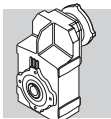
	M _{n2 max} [Nm]
F 25 QF30	350



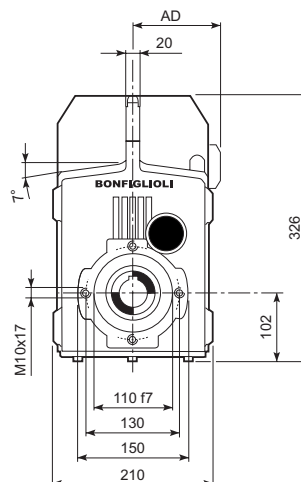
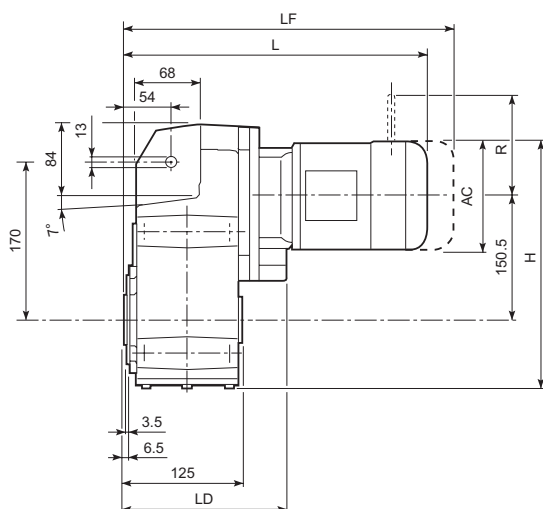
F 25...F...



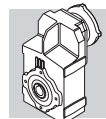
* Atenersse a las INSTRUCCIONES DE MONTAJE suministradas con el reductor.



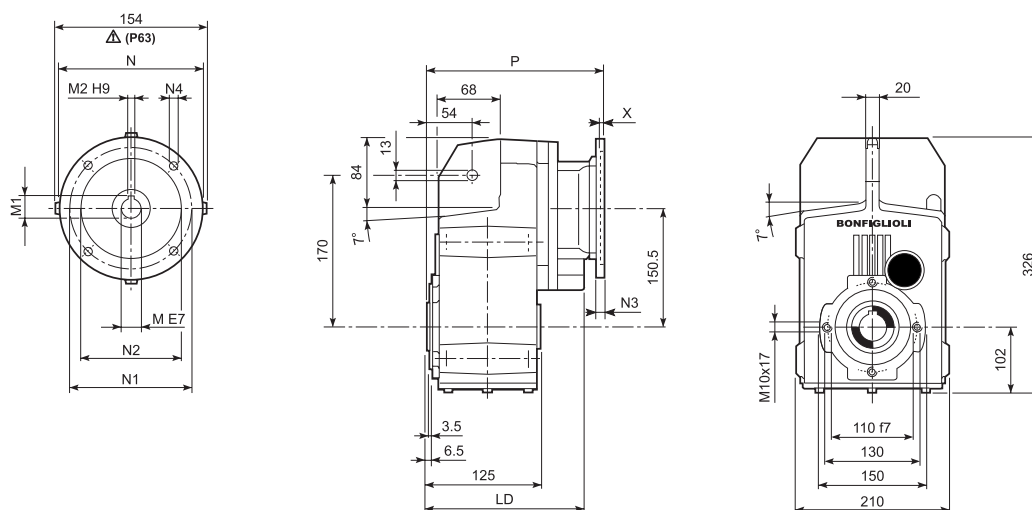
F 31...M



										M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	Kg		LF	Kg	R	AD	R	AD
F 31 2/3	S1	M1	138	321.3	380.5	183.5	108	22		441.5	25	103	135	124	108
F 31 2/3	S2	M2S	156	330.3	409.5	195.5	119	26		479.5	30	129	146	134	119
F 31 2/3	S3	M3S	195	349.8	452.5	205.5	142	31		548.5	38	160	158	160	142
F 31 2/3	S3	M3L	195	349.8	484.5	205.5	142	38		575.5	45	160	158	160	142
F 31 2/3	S4	M4	258	381.3	592.5	—	193	72		701.5	79	204	210	200	193
F 31 2/3	S4	M4L	258	381.3	592.5	—	193	78		701.5	85	204	210	200	193
F 31 4	S05	M05	121	312.8	409	—	95	20		475	22	96	122	116	95
F 31 4	S1	M1	138	321.3	438	—	108	22		499	25	103	135	124	108
F 31 4	S2	M2S	156	330.3	467	—	119	26		537	31	129	146	134	119
F 31 4	S3	M3S	195	349.8	510	—	142	31		606	39	160	158	160	142
F 31 4	S3	M3L	195	349.8	542	—	142	38		633	46	160	158	160	142

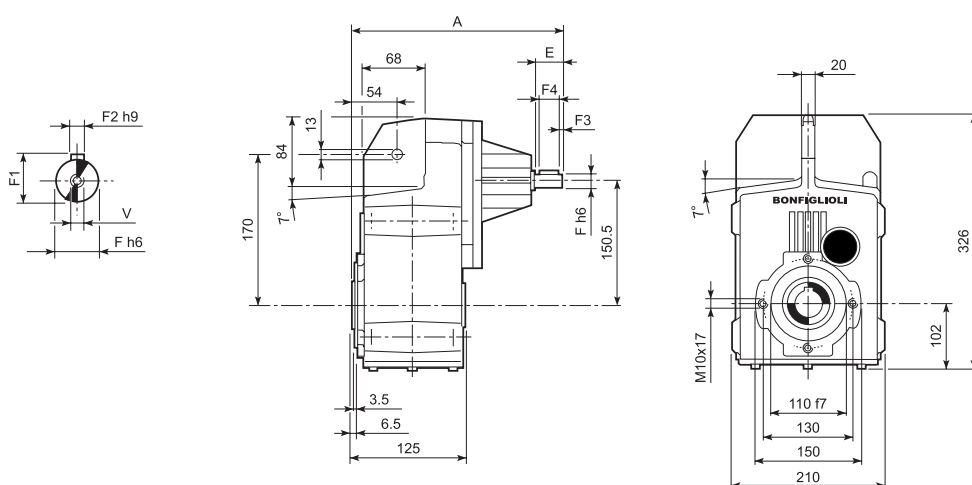


F 31...P(IEC)

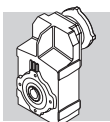


		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 31 2/3	P63	195.5	11	12.8	4	140	115	95	—	M8x19	4	225.5	17
F 31 2/3	P71	195.5	14	16.3	5	160	130	110	—	M8x16	4.5	225.5	17
F 31 2/3	P80	205.5	19	21.8	6	200	165	130	—	M10x14.5	4	245	18
F 31 2/3	P90	205.5	24	27.3	8	200	165	130	—	M10x14.5	4	245	17
F 31 2/3	P100	205.5	28	31.3	8	250	215	180	—	M12x16	4.5	255	21
F 31 2/3	P112	205.5	28	31.3	8	250	215	180	—	M12x16	4.5	255	21
F 31 2/3	P132	—	38	41.3	10	300	265	230	—	14	5	291.5	24
F 31 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	283	17
F 31 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	283	17
F 31 4	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	302.5	18
F 31 4	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	302.5	18
F 31 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	312.5	22
F 31 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	312.5	22

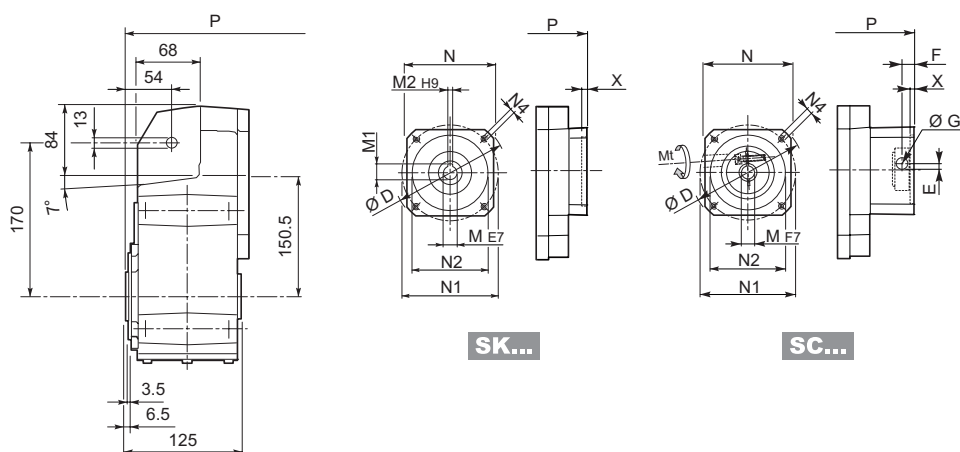
F 31...HS



		A	E	F	F1	F2	F3	F4	V	Kg
F 31 2	HS	275.5	40	19	21.5	6	2.5	35	M6x16	16.7
F 31 3		275.5	40	19	21.5	6	2.5	35	M6x16	16.7
F 31 4		290	40	16	18	5	2.5	35	M6x16	16.5

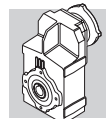


F 31...SK / SC



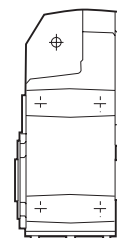
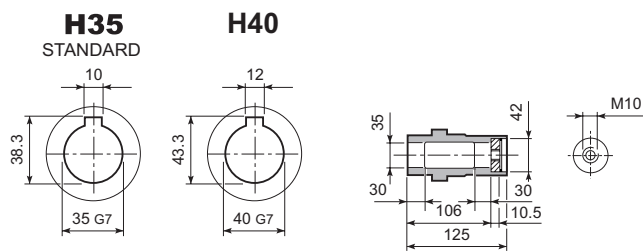
		D	M	M1	M2	N	N1	N2	N4	X	2/3x		4x	
											P	Kg	P	Kg
F 31 2/3/4	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	197	16	254.5	16
F 31 2/3/4	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	204	17	261.5	17
F 31 2/3/4	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	204	17	261.5	17
F 31 2/3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	245	18	302.5	18
F 31 2/3/4	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	245	18	302.5	18
F 31 2/3/4	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	245	18	302.5	18
F 31 2/3/4	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	245	18	302.5	18
F 31 2/3/4	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	245	18	302.5	18
F 31 2/3/4	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	245	18	302.5	18
F 31 2/3	SK 130A	188	24	27.3	8	142	165	130	M10x20	5	245	18	—	—

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2/3x		4x	
														P	Kg	P	Kg
F 31 2/3/4	SC 60A	M6	15	102	7	12.5	12.5	11	82	75	60	M5x10	4	224	17	281.5	17
F 31 2/3/4	SC 60B	M6	15	102	7	12.5	12.5	14	82	75	60	M5x10	4	224	18	281.5	18
F 31 2/3/4	SC 80A	M6	15	115	6	12.5	12.5	14	90	100	80	M6x12	4	224	18	281.5	18
F 31 2/3/4	SC 80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	268.5	19	326	19
F 31 2/3/4	SC 95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	268.5	19	326	19
F 31 2/3/4	SC 95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	268.5	19	326	19
F 31 2/3/4	SC 95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	268.5	19	326	19
F 31 2/3/4	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	268.5	20	326	20
F 31 2/3/4	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	268.5	20	326	20
F 31 2/3	SC 130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	268.5	21	—	—

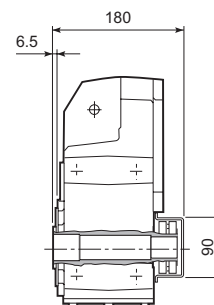
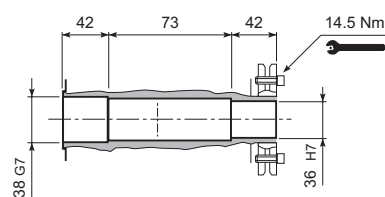


F 31

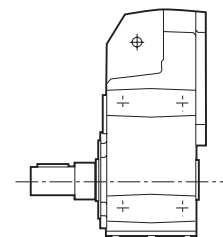
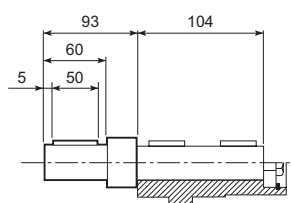
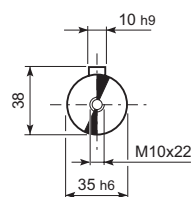
F 31...H



F 31...S

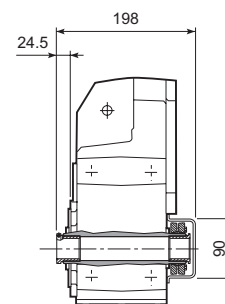
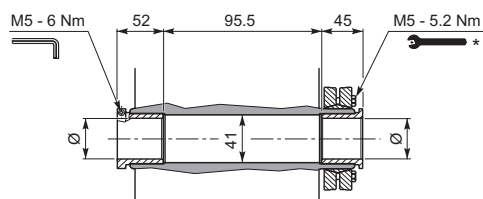


F 31...R

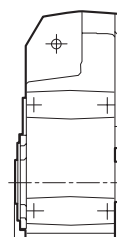
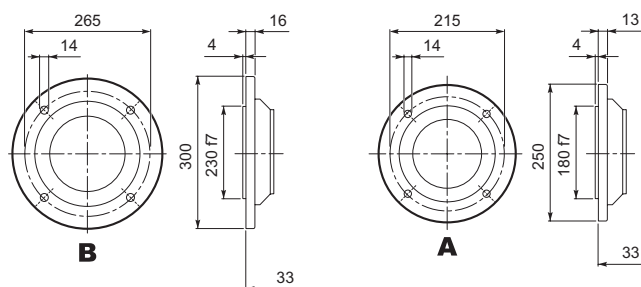


F 31...QF

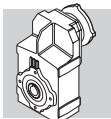
	Ø
QF35	35
QF40	40



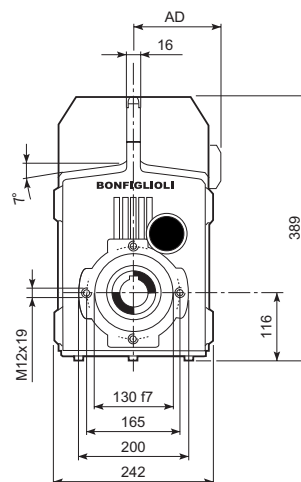
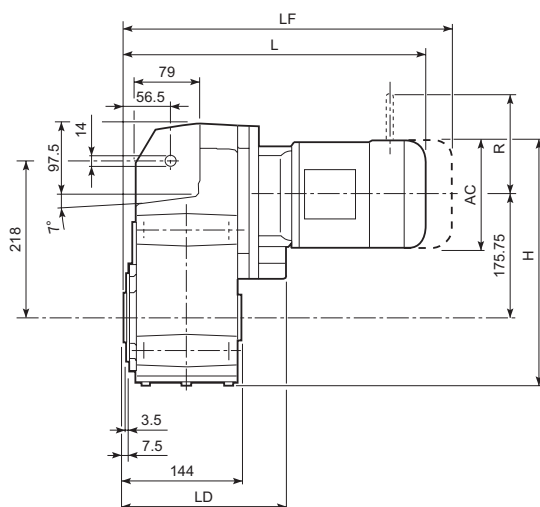
F 31...F...



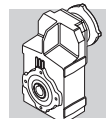
* Atenerse a las INSTRUCCIONES DE MONTAJE suministradas con el reductor.



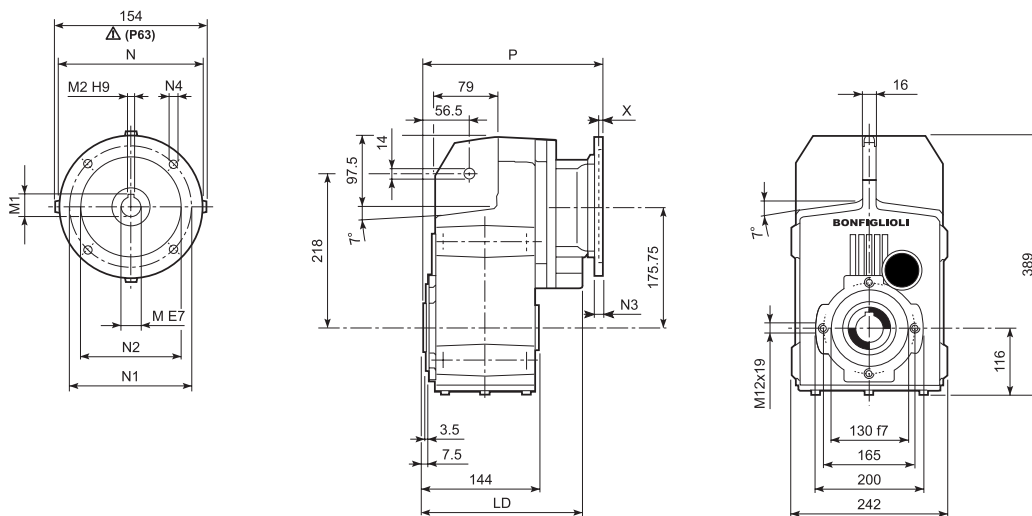
F 41...M



										M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD		LF		R	AD	R	AD	
F 41 2/3	S1	M1	138	360.8	401	199.5	108	46	462	48	103	135	124	108	
F 41 2/3	S2	M2S	156	369.8	430	215	119	49	500	53	129	146	134	119	
F 41 2/3	S3	M3S	195	389.3	473	231	142	54	569	62	160	158	160	142	
F 41 2/3	S3	M3L	195	389.3	505	231	142	62	596	69	160	158	160	142	
F 41 2/3	S4	M4	258	420.8	613	—	193	96	722	114	226	210	217	193	
F 41 2/3	S4	M4LC	258	420.8	648	—	193	104	747	122	226	210	217	193	
F 41 4	S05	M05	231	352.3	433.5	—	95	45	499.5	46	96	122	116	95	
F 41 4	S1	M1	138	360.8	462.5	—	108	47	523.5	49	103	135	124	108	
F 41 4	S2	M2S	156	369.8	491.5	—	119	50	561.5	58	129	146	134	119	
F 41 4	S3	M3S	195	389.3	534.5	—	142	55	630.5	62	160	158	160	142	
F 41 4	S3	M3L	195	389.3	566.5	—	142	63	657.5	70	160	158	160	142	

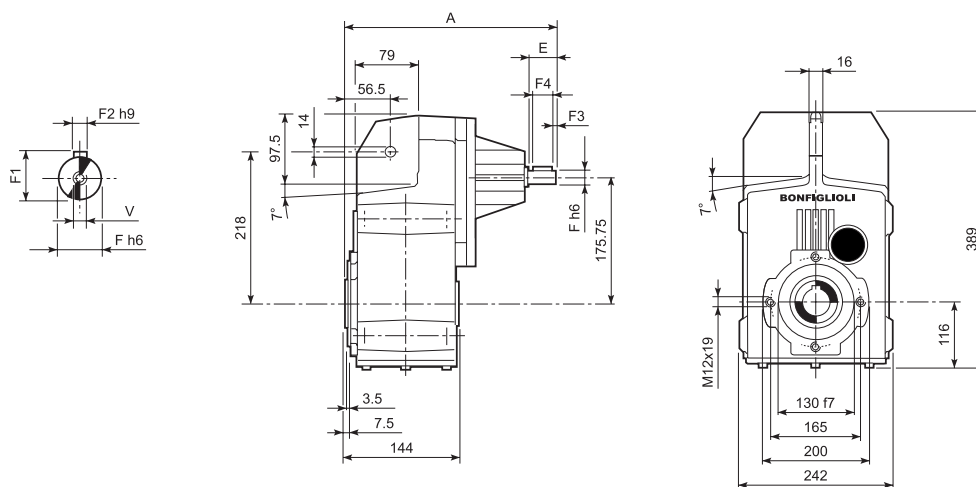


F 41...P(IEC)

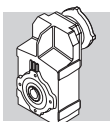


		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 41 2/3	P63	215	11	12.8	4	140	115	95	—	M8x19	4	246	42
F 41 2/3	P71	215	14	16.3	5	160	130	110	—	M8x16	4.5	246	42
F 41 2/3	P80	231	19	21.8	6	200	165	130	—	M10x14.5	4	265.5	43
F 41 2/3	P90	231	24	27.3	8	200	165	130	—	M10x14.5	4	265.5	43
F 41 2/3	P100	231	28	31.3	8	250	215	180	—	M12x16	4.5	275.5	47
F 41 2/3	P112	231	28	31.3	8	250	215	180	—	M12x16	4.5	275.5	47
F 41 2/3	P132	—	38	41.3	10	300	265	230	16	14	5	312	50
F 41 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	307.5	44
F 41 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	307.5	44
F 41 4	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	327	45
F 41 4	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	327	45
F 41 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	337	49
F 41 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	337	49

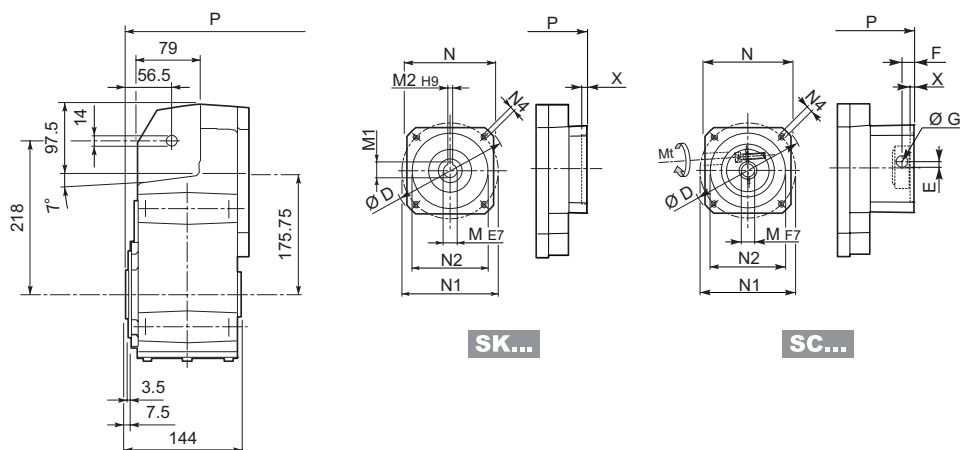
F 41...HS



		A	E	F	F1	F2	F3	F4	V	Kg
F 41 2	HS	335.5	50	24	27	8	2.5	45	M8x19	44.9
F 41 3		335.5	50	24	27	8	2.5	45	M8x19	46.4
F 41 4		357.5	40	19	21.5	6	2.5	35	M6x16	43.5

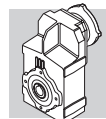


F 41...SK / SC



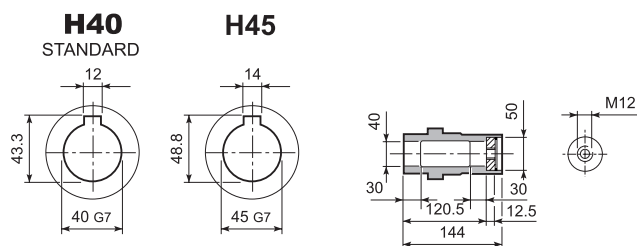
		D	M	M1	M2	N	N1	N2	N4	X	2/3x	4x
											P	P
F 41 4	SK 60A	102	11	12.8	4	82	75	60	M5x10	3.5	—	—
F 41 4	SK 60B	102	14	16.3	5	82	75	60	M5x10	4	—	—
F 41 4	SK 80A	115	14	16.3	5	90	100	80	M6x12	4	—	—
F 41 2/3	SK 80B	120	14	16.3	5	96	100	80	M6x12	4	265.5	43
F 41 2/3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	265.5	43
F 41 2/3/4	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	265.5	43
F 41 2/3/4	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	265.5	43
F 41 2/3/4	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	265.5	43
F 41 2/3/4	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	265.5	43
F 41 2/3/4	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	265.5	43
F 41 2/3	SK 130A	188	24	27.3	8	142	165	130	M10x20	5	265.5	45
F 41 2/3	SK 130B	189	32	35.3	10	160	165	130	M10x20	5	312	47
F 41 2/3	SK 180A	240	32	35.3	10	192	215	180	M12x19	5	312	47
F 41 2/3	SK 180B	240	38	41.3	10	192	215	180	M12x19	5	312	47

		Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2/3x	4x
													P	P
F 41 4	SC 60A	M6 15	102	7	12.5	12.5	11	82	75	60	M5x10	4	—	—
F 41 4	SC 60B	M6 15	102	7	12.5	12.5	14	82	75	60	M5x10	4	—	—
F 41 4	SC 80A	M6 15	115	6	12.5	12.5	14	90	100	80	M6x12	4	—	—
F 41 2/3	SC 80B	M6 15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	289	44
F 41 2/3/4	SC 80C	M6 15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	289	44
F 41 2/3/4	SC 95A	M6 15	130	16.5	15	17.75	14	102	115	95	M8x16	4	289	44
F 41 2/3/4	SC 95B	M6 15	130	16.5	15	17.75	19	102	115	95	M8x16	4	289	44
F 41 2/3/4	SC 95C	M6 15	130	16.5	15	17.75	24	102	115	95	M8x16	4	289	44
F 41 2/3/4	SC 110A	M6 15	150	16.5	16	17.75	19	120	130	110	M8x16	5	289	45
F 41 2/3/4	SC 110B	M6 15	150	16.5	16	17.75	24	120	130	110	M8x16	5	289	45
F 41 2/3	SC 130A	M6 15	188	19	16	17.75	24	142	165	130	M10x20	5	289	46
F 41 2/3	SC 130B	M8 36	189	20	17	17.75	32	160	165	130	M10x20	5	335	50
F 41 2/3	SC 180A	M8 36	240	20	17.5	17.75	32	192	215	180	M12x24	5	339	50
F 41 2/3	SC 180B	M8 36	240	20	17.5	17.75	38	192	215	180	M12x24	5	339	50

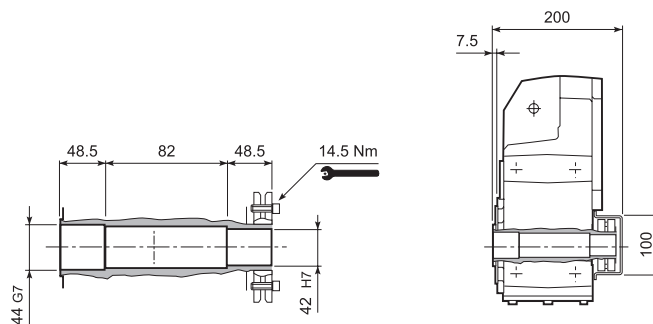


F 41

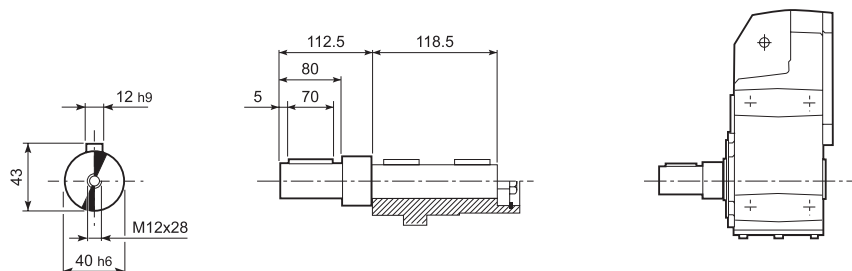
F 41...H



F 41...S



F 41...R

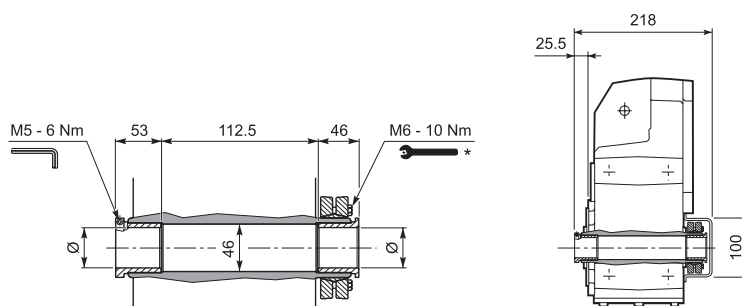


F 41...QF

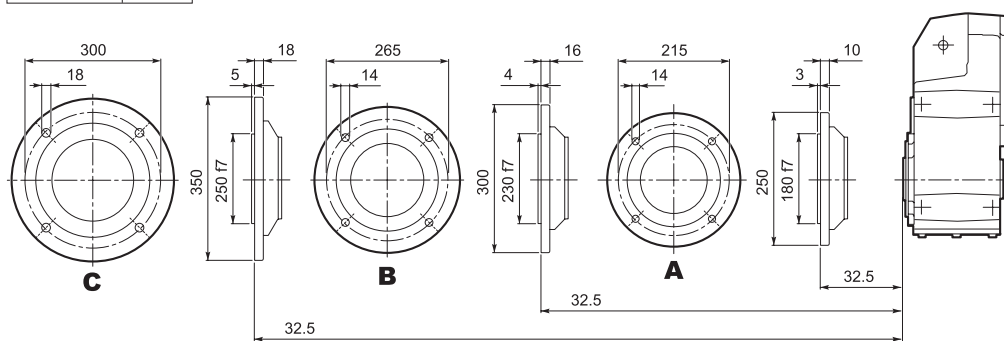
	Ø
QF42	42
QF45	45



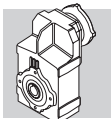
	M _{n2 max} [Nm]
F 41 QF42	850
F 41 QF45	1000



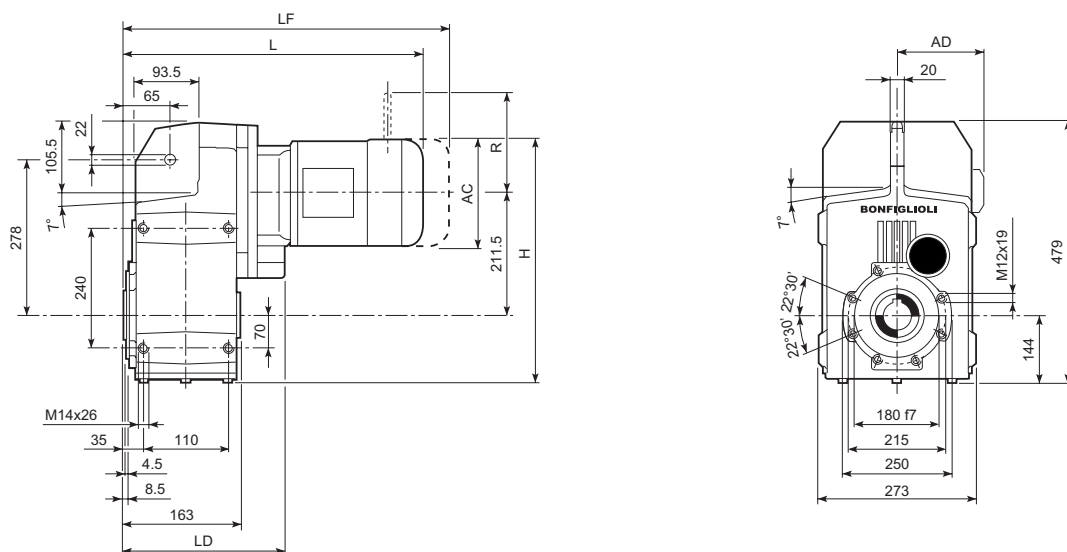
F 41...F...



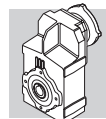
* Atenersse a las INSTRUCCIONES DE MONTAJE suministradas con el reductor.



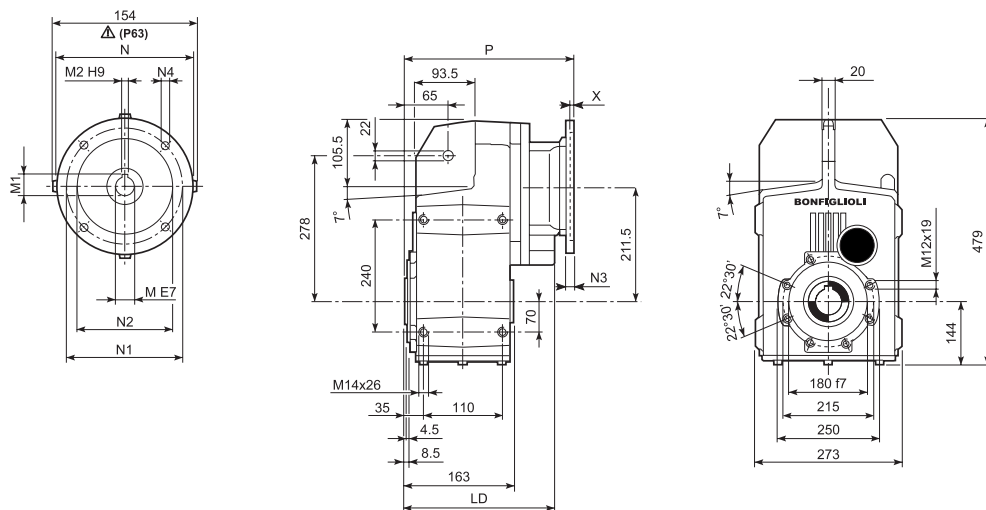
F 51...M



									M...FD M...FA		M...FD		M...FA	
			AC	H	L	LD	AD	Kg	LF	Kg	R	AD	R	AD
F 51 2/3	S1	M1	138	424	423	—	108	73	484	76	103	135	124	108
F 51 2/3	S2	M2S	156	433	452	238	119	73	522	76	129	146	134	119
F 51 2/3	S3	M3S	195	452.5	495	253	142	77	591	85	160	158	160	142
F 51 2/3	S3	M3L	195	452.5	527	253	142	85	618	92	160	158	160	142
F 51 2/3	S4	M4	258	484	635	238	193	119	744	137	226	210	217	193
F 51 2/3	S4	M4LC	258	484	670	238	193	127	769	145	226	210	217	193
F 51 2/3	S5	M5S	310	510	721.5	—	245	153	861.5	188	266	245	247	245
F 51 2/3	S5	M5L	310	510	765.5	—	245	169	905.5	204	266	245	247	245
F 51 4	S1	M1	138	424	494.5	—	108	75	555.5	78	103	135	124	108
F 51 4	S2	M2S	156	433	523.5	—	119	79	593.5	83	129	146	134	119
F 51 4	S3	M3S	195	452.5	566.5	—	142	84	662.5	91	160	158	160	142
F 51 4	S3	M3L	195	452.5	598.5	—	142	91	689.5	98	160	158	160	142

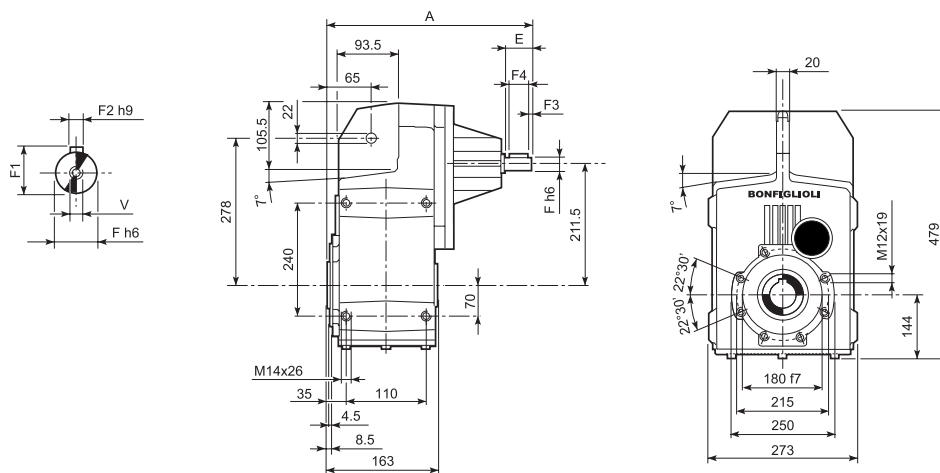


F 51...P(IEC)

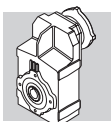


		LD	M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 51 2/3	P63	238	11	12.8	4	140	115	95	—	M8x19	4	268	65
F 51 2/3	P71	238	14	16.3	5	160	130	110	—	M8x16	4.5	268	65
F 51 2/3	P80	253	19	21.8	6	200	165	130	—	M10x14.5	4	287.5	67
F 51 2/3	P90	253	24	27.3	8	200	165	130	—	M10x14.5	4	287.5	67
F 51 2/3	P100	238	28	31.3	8	250	215	180	—	M12x16	4.5	297.5	71
F 51 2/3	P112	238	28	31.3	8	250	215	180	—	M12x16	4.5	297.5	71
F 51 2/3	P132	238	38	41.3	10	300	265	230	16	14	5	334	74
F 51 2/3	P160	—	42	45.3	12	350	300	250	23	18	5.5	384.5	78
F 51 2/3	P180	—	48	51.8	14	350	300	250	23	18	5.5	384.5	78
F 51 4	P63	—	11	12.8	4	140	115	95	—	M8x19	4	339.5	70
F 51 4	P71	—	14	16.3	5	160	130	110	—	M8x16	4.5	339.5	70
F 51 4	P80	—	19	21.8	6	200	165	130	—	M10x14.5	4	359	71
F 51 4	P90	—	24	27.3	8	200	165	130	—	M10x14.5	4	359	71
F 51 4	P100	—	28	31.3	8	250	215	180	—	M12x16	4.5	369	75
F 51 4	P112	—	28	31.3	8	250	215	180	—	M12x16	4.5	369	75

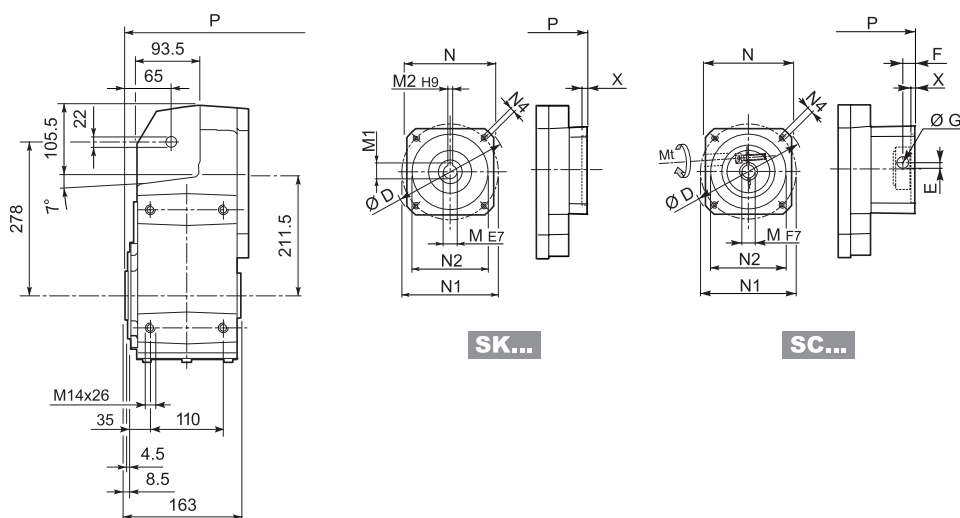
F 51...HS



		A	E	F	F1	F2	F3	F4	V	Kg
F 51 2	HS	357.5	50	24	27	8	2.5	45	M8x19	65
F 51 3		357.5	50	24	27	8	2.5	45	M8x19	68
F 51 4		389.5	40	19	21.5	6	2.5	35	M6x16	70

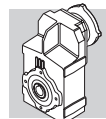


F 51...SK / SC



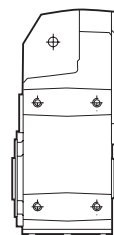
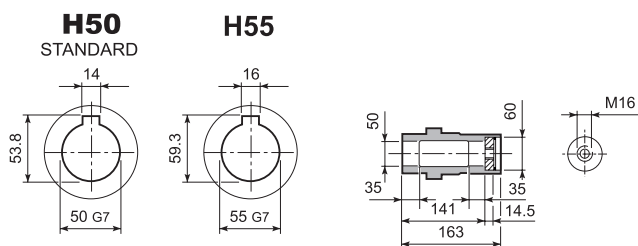
		D	M	M1	M2	N	N1	N2	N4	X	2/3x 		4x 	
		P	kg	P	kg									
F 51 2/3	SK 80B	120	14	16.3	5	96	100	80	M6x12	4	287.5	67	—	—
F 51 2/3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	287.5	67	359	71
F 51 2/3/4	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	287.5	67	359	71
F 51 2/3/4	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	287.5	67	359	71
F 51 2/3/4	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	287.5	67	359	71
F 51 2/3/4	SK 110A	150	19	21.8	6	120	130	110	M8x12	5	287.5	67	359	71
F 51 2/3/4	SK 110B	150	24	27.3	8	120	130	110	M8x12	5	287.5	67	359	71
F 51 2/3/4	SK 130A	188	24	27.3	8	142	165	130	M10x20	5	287.5	69	359	73
F 51 2/3	SK 130B	189	32	35.3	10	160	165	130	M10x20	5	334	75	—	—
F 51 2/3	SK 180A	240	32	35.3	10	192	215	180	M12x19	5	334	75	—	—
F 51 2/3	SK 180B	240	38	41.3	10	192	215	180	M12x19	5	334	75	—	—

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2/3x 		4x 	
				P	kg	P	kg	P	kg	P	kg	P	kg	P	kg	P	kg
F 51 2/3	SC 80B	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	311	70	—	—
F 51 2/3/4	SC 80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	311	70	382.5	74
F 51 2/3/4	SC 95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	311	70	382.5	74
F 51 2/3/4	SC 95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	311	70	382.5	74
F 51 2/3/4	SC 95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	311	70	382.5	74
F 51 2/3/4	SC 110A	M6	15	150	16.5	16	17.75	19	120	130	110	M8x16	5	311	71	382.5	75
F 51 2/3/4	SC 110B	M6	15	150	16.5	16	17.75	24	120	130	110	M8x16	5	311	71	382.5	75
F 51 2/3/4	SC 130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	311	72	382.5	76
F 51 2/3	SC 130B	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	357	75	—	—
F 51 2/3	SC 180A	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	361	75	—	—
F 51 2/3	SC 180B	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	361	75	—	—

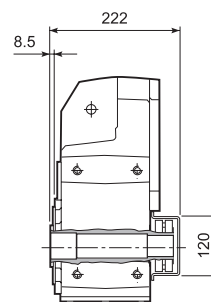
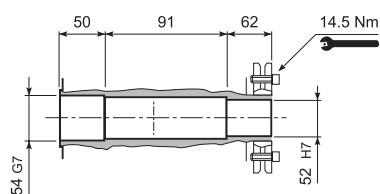


F 51

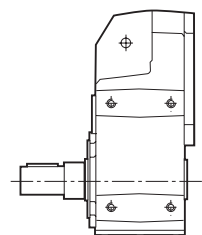
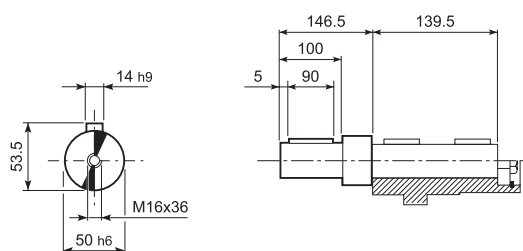
F 51...H



F 51...S



F 51...R

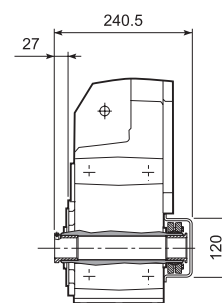
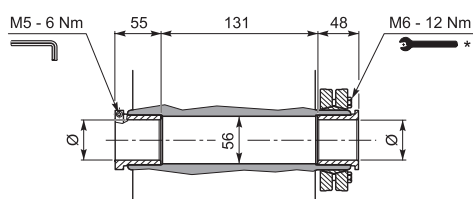


F 51...QF

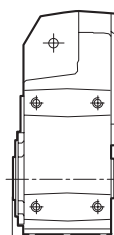
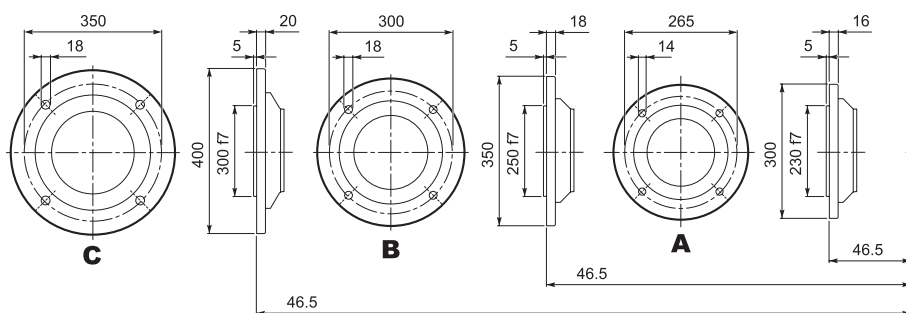
	Ø
QF50	50
QF55	55



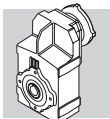
	M _{n2 max} [Nm]
F 51 QF50	1750



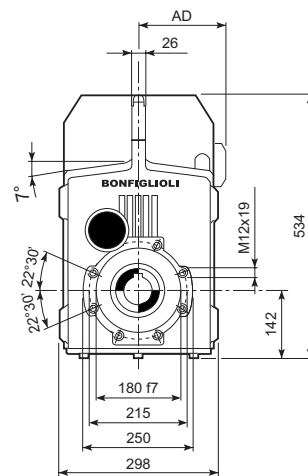
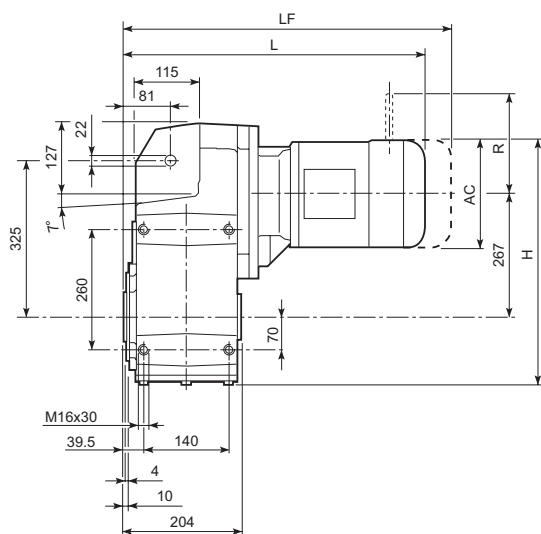
F 51...F...



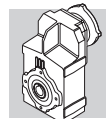
* Atenersse a las INSTRUCCIONES DE MONTAJE suministradas con el reductor.



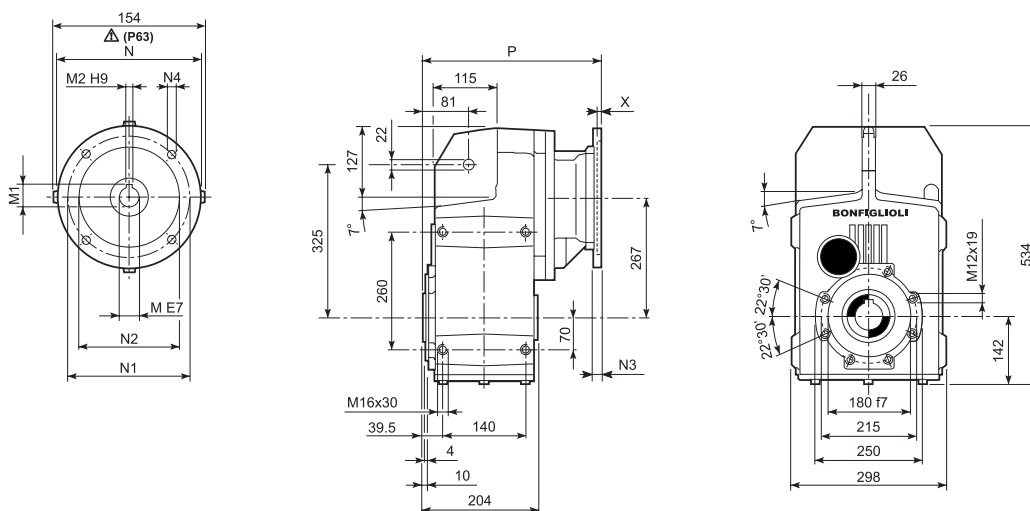
F 60...M



									M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD			LF		R	AD	R	AD
F 60 3	S2	M2S	156	487	486.5	119	114		556.5	121	129	146	134	119
F 60 3	S3	M3S	195	506.5	529.5	142	114		625.5	122	160	158	160	142
F 60 3	S3	M3L	195	506.5	561.5	142	122		652.5	129	160	158	160	142
F 60 3	S4	M4	258	538	669.5	193	156		777.5	174	226	210	217	193
F 60 3	S4	M4LC	258	538	704.5	193	164		802.5	182	226	210	217	193
F 60 3	S5	M5S	310	564	756	245	184		896	214	266	245	247	245
F 60 3	S5	M5L	310	564	800	245	200		940	230	266	245	247	245
F 60 4	S1	M1	138	478	528	108	113		589	116	103	135	124	108
F 60 4	S2	M2S	156	487	557	119	117		627	121	129	146	134	119
F 60 4	S3	M3S	195	506.5	600	142	122		696	129	160	158	160	142
F 60 4	S3	M3L	195	506.5	632	142	129		723	136	160	158	160	142

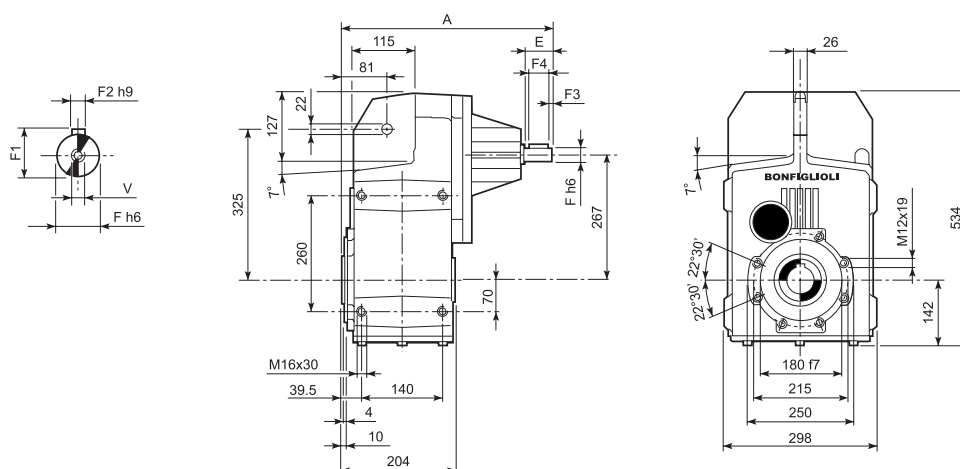


F 60...P(IEC)

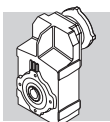


		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 60 3	P63	11	12.8	4	140	115	95	—	M8x19	4	302.5	103
F 60 3	P71	14	16.3	5	160	130	110	—	M8x16	4.5	302.5	103
F 60 3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	322	104
F 60 3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	322	104
F 60 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	331	108
F 60 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	331	108
F 60 3	P132	38	41.3	10	300	265	230	16	14	5	367.5	111
F 60 3	P160	42	45.3	12	350	300	250	23	18	5.5	419	116
F 60 3	P180	48	51.8	14	350	300	250	23	18	5.5	419	116
F 60 4	P63	11	12.8	4	140	115	95	—	M8x19	4	373	108
F 60 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	373	108
F 60 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	392.5	110
F 60 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	392.5	110
F 60 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	402.5	114
F 60 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	402.5	114

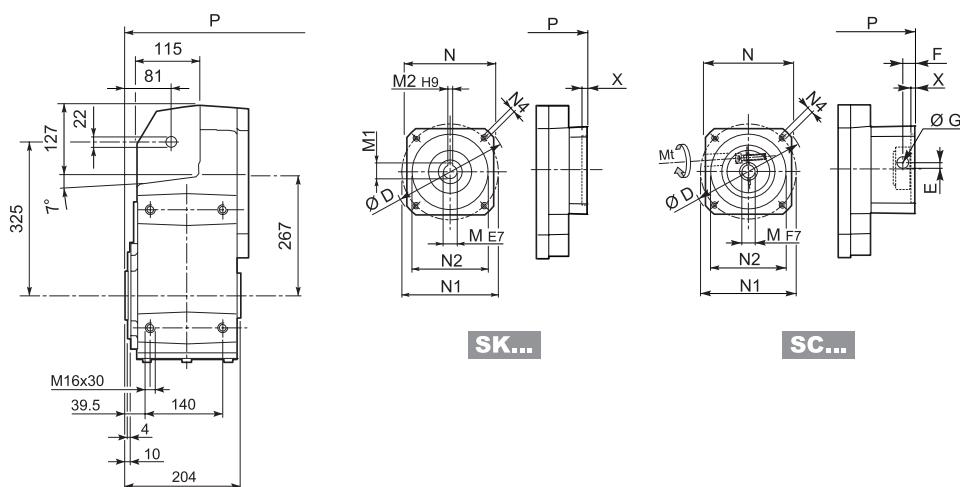
F 60...HS



		A	E	F	F1	F2	F3	F4	V	Kg
F 60 3	HS	419	60	28	31	8	5.0	50	M10x22	108
F 60 4		462.5	50	24	27	8	2.5	45	M8x19	105

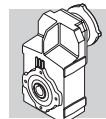


F 60...SK / SC



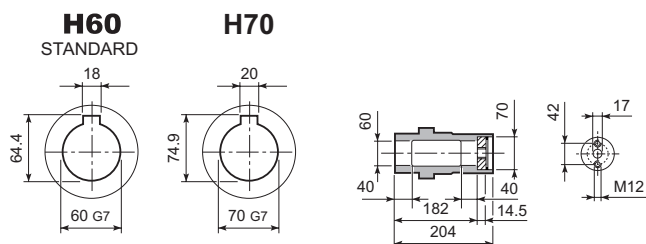
		D	M	M1	M2	N	N1	N2	N4	X	2/3x		4x	
											P		P	
F 60 4	SK 80B	120	14	16.3	5	96	100	80	M6x12	4	—	—	392.5	109
F 60 3/4	SK 80C	120	19	21.8	6	96	100	80	M6x12	4	322	106	392.5	112
F 60 3/4	SK 95A	130	14	16.3	5	102	115	95	M8x12	4	322	106	392.5	112
F 60 3/4	SK 95B	130	19	21.8	6	102	115	95	M8x12	4	322	106	392.5	112
F 60 3/4	SK 95C	130	24	27.3	8	102	115	95	M8x12	4	322	106	392.5	112
F 60 3/4	SK 110A	140	19	21.8	6	120	130	110	M8x12	5	322	106	392.5	112
F 60 3/4	SK 110B	140	24	27.3	8	120	130	110	M8x12	5	322	106	392.5	112
F 60 3/4	SK 130A	188	24	27.3	8	142	165	130	M10x20	5	322	108	392.5	112
F 60 3	SK 130B	189	32	35.3	10	160	165	130	M10x20	5	368.5	109	—	—
F 60 3	SK 180A	240	32	35.3	10	192	215	180	M12x19	5	368.5	109	—	—
F 60 3	SK 180B	240	38	41.3	10	192	215	180	M12x19	5	368.5	109	—	—

			Mt [Nm]	D	E	F	G	M	N	N1	N2	N4	X	2/3x		4x	
														P		P	
F 60 4	SC 80B	M6	15	120	15.5	14.5	17.75	14	96	100	80	M6x12	4	—	—	416	113
F 60 3/4	SC 80C	M6	15	120	15.5	14.5	17.75	19	96	100	80	M6x12	4	345.5	107	416	113
F 60 3/4	SC 95A	M6	15	130	16.5	15	17.75	14	102	115	95	M8x16	4	345.5	107	416	113
F 60 3/4	SC 95B	M6	15	130	16.5	15	17.75	19	102	115	95	M8x16	4	345.5	107	416	113
F 60 3/4	SC 95C	M6	15	130	16.5	15	17.75	24	102	115	95	M8x16	4	345.5	107	416	113
F 60 3/4	SC 110A	M6	15	140	16.5	16	17.75	19	120	130	110	M8x16	5	345.5	108	416	113
F 60 3/4	SC 110B	M6	15	140	16.5	16	17.75	24	120	130	110	M8x16	5	345.5	108	416	113
F 60 3/4	SC 130A	M6	15	188	19	16	17.75	24	142	165	130	M10x20	5	345.5	109	416	115
F 60 3	SC 130B	M8	36	189	20	17	17.75	32	160	165	130	M10x20	5	390.5	112	—	—
F 60 3	SC 180A	M8	36	240	20	17.5	17.75	32	192	215	180	M12x24	5	394.5	112	—	—
F 60 3	SC 180B	M8	36	240	20	17.5	17.75	38	192	215	180	M12x24	5	394.5	112	—	—

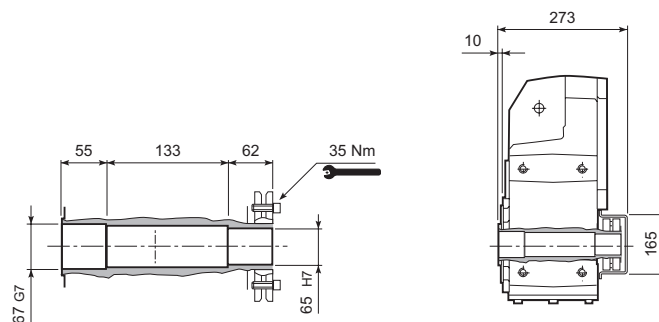


F 60

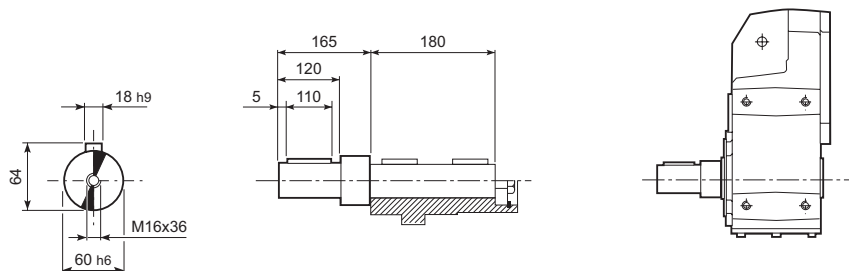
F 60...H



F 60...S

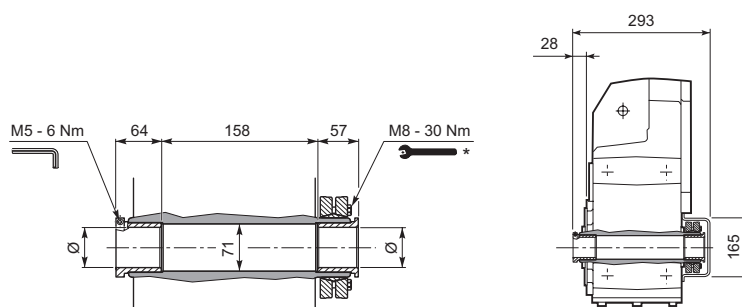


F 60...R

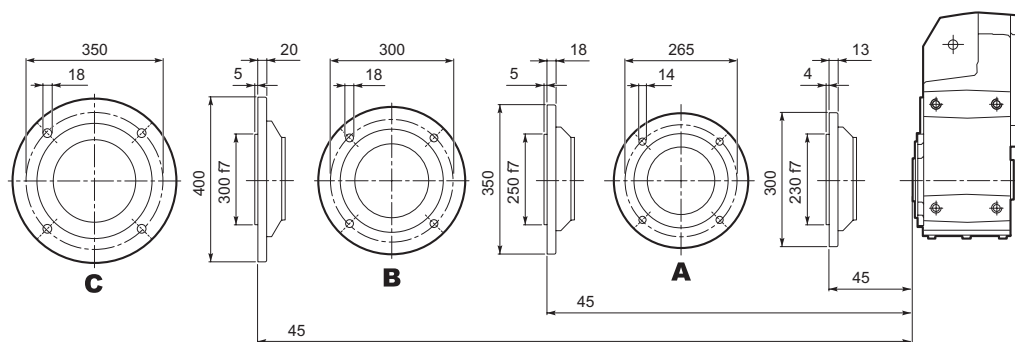


F 60...QF

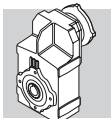
	Ø
QF60	60
QF65	65
QF70	70



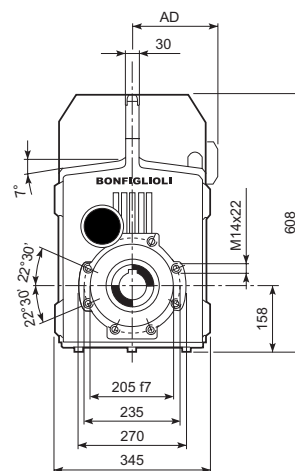
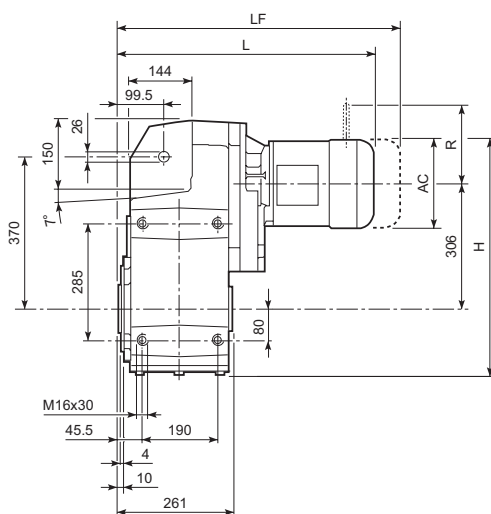
F 60...F...



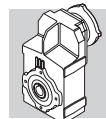
* Atenersse a las INSTRUCCIONES DE MONTAJE suministradas con el reductor.



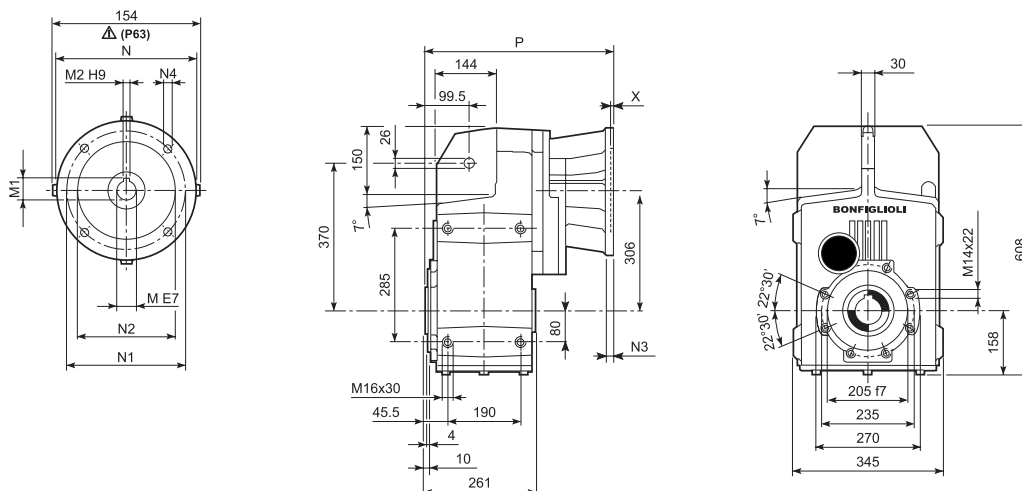
F 70...M



								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD		LF		R	AD	R	AD
F 70 3	S2	M2S	156	542	552	119	173	622	177	129	146	134	119
F 70 3	S3	M3S	195	561.5	595	142	178	691	186	160	158	160	142
F 70 3	S3	M3L	195	561.5	627	142	186	718	193	160	158	160	142
F 70 3	S4	M4	258	593	735	193	220	844	238	226	210	217	193
F 70 3	S4	M4LC	258	593	770	193	228	869	246	226	210	217	193
F 70 3	S5	M5S	310	619	821.5	245	248	961.5	278	266	245	247	245
F 70 3	S5	M5L	310	619	865.5	245	264	1005.5	294	266	245	247	245
F 70 4	S1	M1	138	533	574	108	173	635	176	103	135	124	108
F 70 4	S2	M2S	156	542	603	119	177	673	180	129	146	134	119
F 70 4	S3	M3S	195	561.5	646	142	181	742	189	160	158	160	142
F 70 4	S3	M3L	195	561.5	678	142	189	769	196	160	158	160	142
F 70 4	S4	M4	258	593	786	193	223	895	241	226	210	217	193
F 70 4	S4	M4LC	258	593	821	193	231	920	249	226	210	217	193

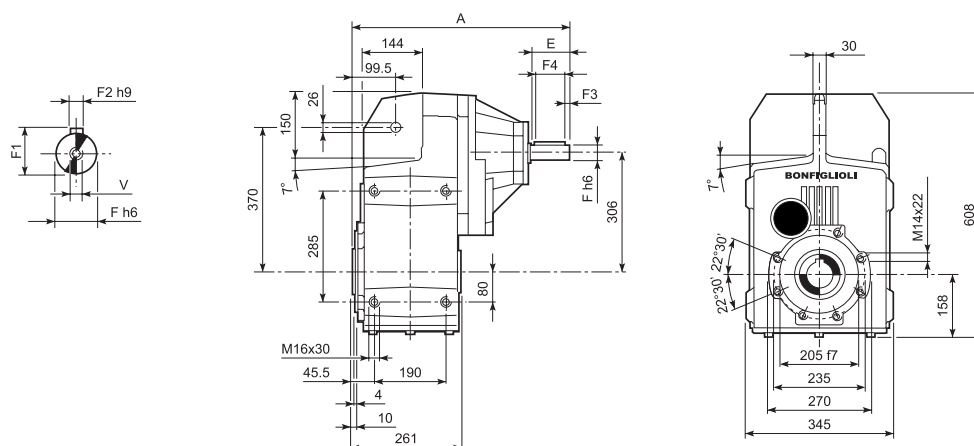


F 70...P(IEC)

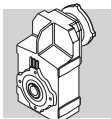


		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 70 3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	387.5	167
F 70 3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	387.5	167
F 70 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	397.5	171
F 70 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	397.5	171
F 70 3	P132	38	41.3	10	300	265	230	16	14	5	434	173
F 70 3	P160	42	45.3	12	350	300	250	23	18	6	489.5	185
F 70 3	P180	48	51.8	14	350	300	250	23	18	6	489.5	185
F 70 3	P200	55	59.3	16	400	350	300	—	M16x25	7	514.5	206
F 70 4	P63	11	12.8	4	140	115	95	—	M8x19	4	419	168
F 70 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	419	168
F 70 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	438.5	170
F 70 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	438.5	170
F 70 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	174
F 70 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	446.5	174
F 70 4	P132	38	41.3	10	300	265	230	16	14	5	482	176

F 70...HS

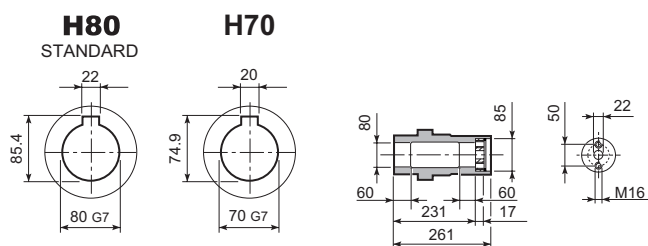


		A	E	F	F1	F2	F3	F4	V	Kg
F 70 3	HS	572	110	42	45	12	10	90	M12x28	186
F 70 4		508.5	50	24	27	8	2.5	45	M8x19	174

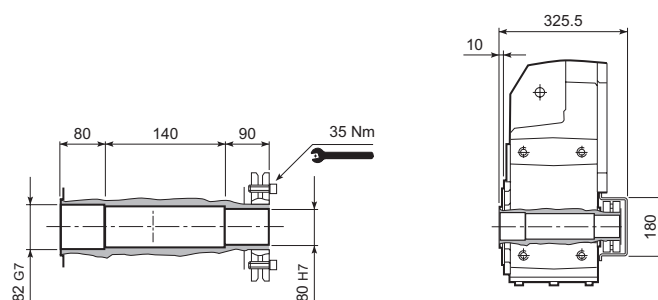


F 70

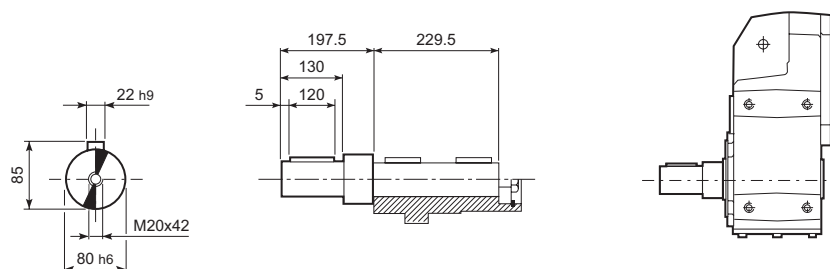
F 70...H



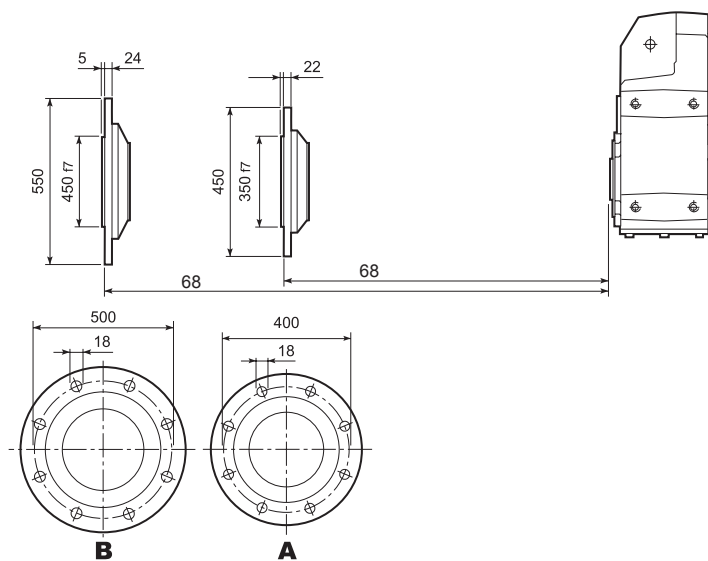
F 70...S

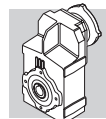


F 70...R

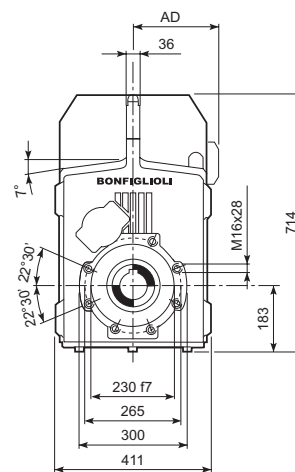
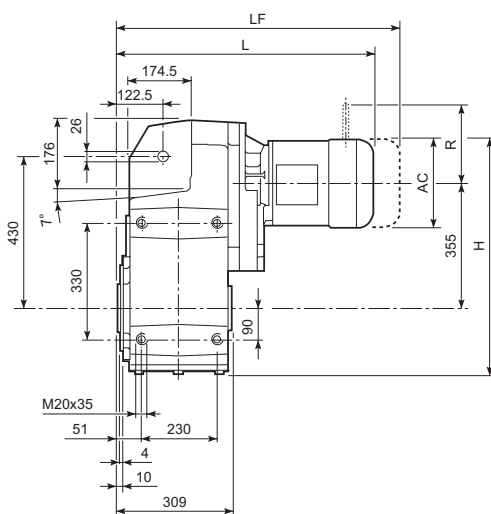


F 70...F...

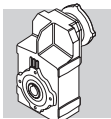




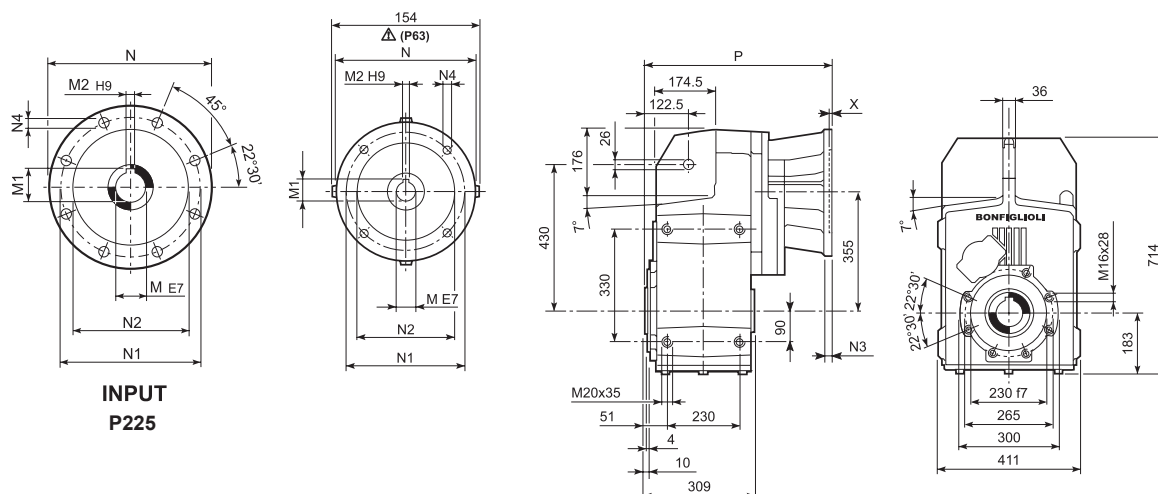
F 80...M



									M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD			LF		R	AD	R	AD
F 80 3	S3	M3S	195	635.5	653	142	266		749	273	160	158	160	142
F 80 3	S3	M3L	195	635.5	685	142	273		776	280	160	158	160	142
F 80 3	S4	M4	258	667	793	193	307		902	325	226	210	217	193
F 80 3	S4	M4LC	258	667	828	193	315		927	333	226	210	217	193
F 80 3	S5	M5S	310	693	879.5	245	335		1019.5	365	266	245	247	245
F 80 3	S5	M5L	310	693	923.5	245	351		1063.5	381	266	245	247	245
F 80 4	S1	M1	138	607	644	108	262		705	265	103	135	124	108
F 80 4	S2	M2S	156	616	673	119	266		743	269	129	146	134	119
F 80 4	S3	M3S	195	635.5	716	142	271		812	278	160	158	160	142
F 80 4	S3	M3L	195	635.5	748	142	278		839	285	160	158	160	142
F 80 4	S4	M4	258	667	856	193	312		965	330	226	210	217	193
F 80 4	S4	M4LC	258	667	891	193	320		990	338	226	210	217	193

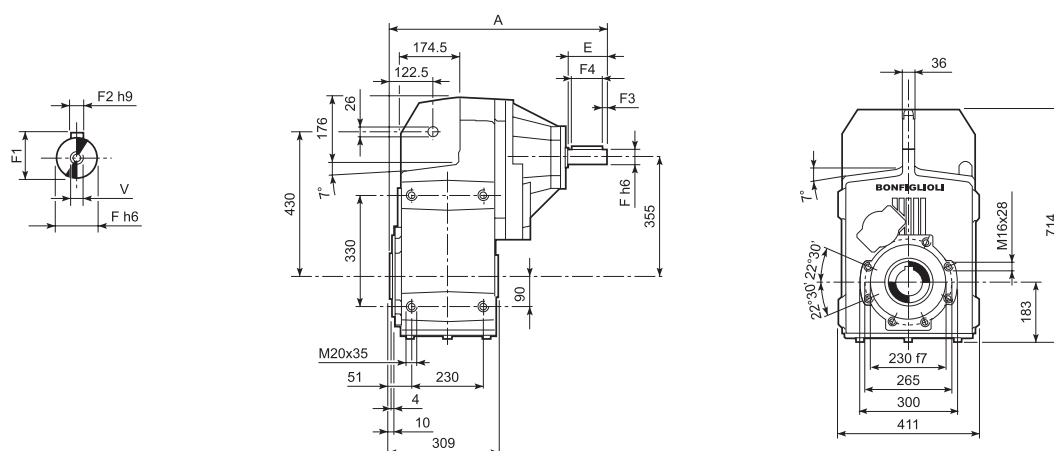


F 80...P(IEC)

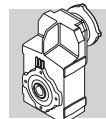


		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 80 3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	445.5	255
F 80 3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	445.5	255
F 80 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	455.5	259
F 80 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	455.5	259
F 80 3	P132	38	41.3	10	300	265	230	16	14	5	492	261
F 80 3	P160	42	45.3	12	350	300	250	23	18	6	547.5	276
F 80 3	P180	48	51.8	14	350	300	250	23	18	6	547.5	276
F 80 3	P200	55	59.3	16	400	350	300	—	M16x25	7	572.5	298
F 80 3	P225	60	64.4	18	450	400	350	25	18	6	618	298
F 80 4	P63	11	12.8	4	140	115	95	—	M8x19	4	489	258
F 80 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	489	258
F 80 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	508.5	260
F 80 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	508.5	260
F 80 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	518.5	264
F 80 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	518.5	264
F 80 4	P132	38	41.3	10	300	265	230	16	14	5	552	266

F 80...HS

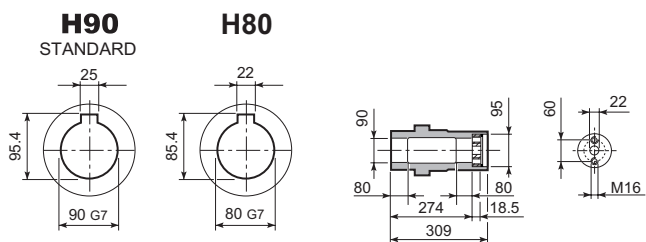


		A	E	F	F1	F2	F3	F4	V	Kg
F 80 3	HS	630	110	42	45	12	10	90	M12x28	273
F 80 4		575.5	50	24	27	8	2.5	45	M8x19	263

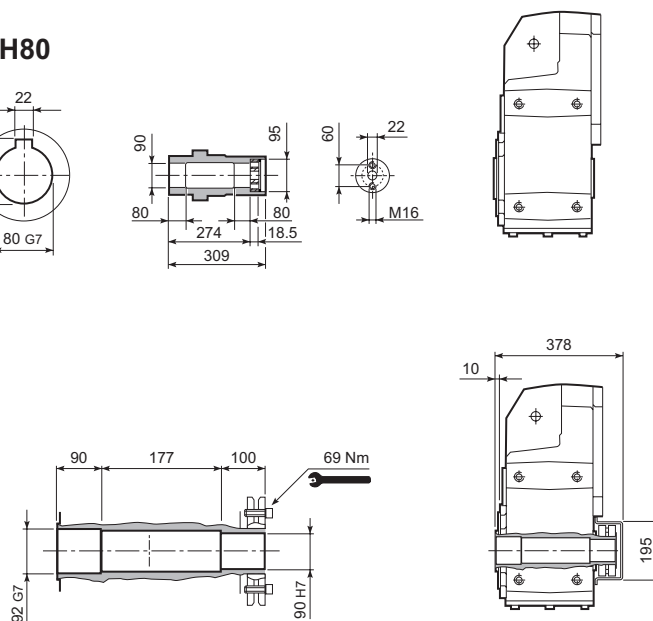


F 80

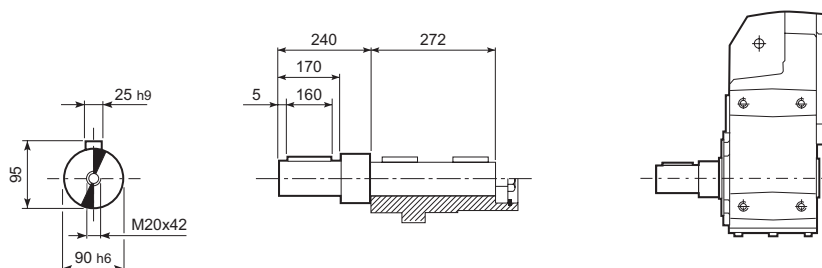
F 80...H



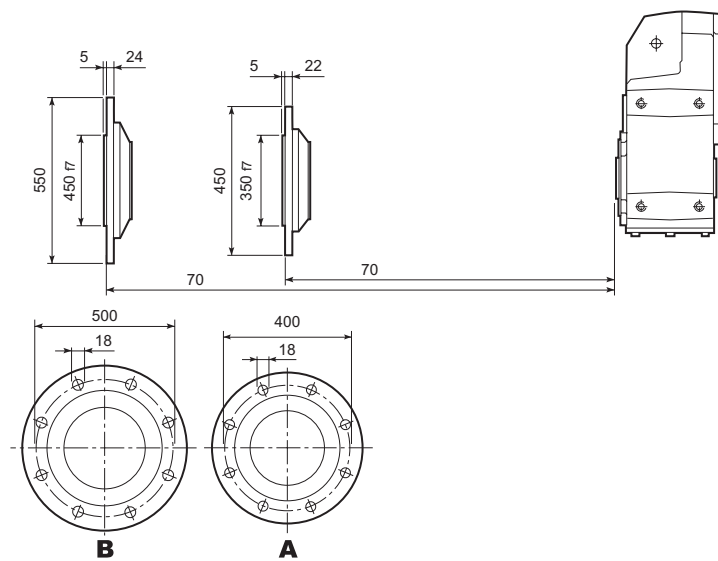
F 80...S

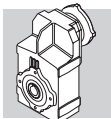


F 80...R

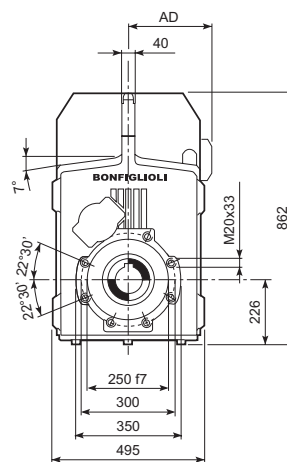
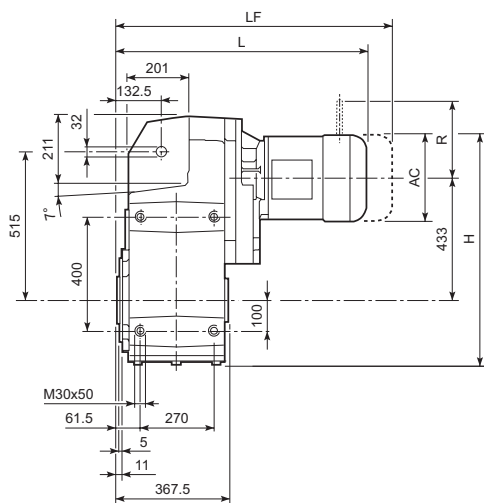


F 80...F...

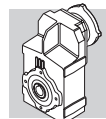




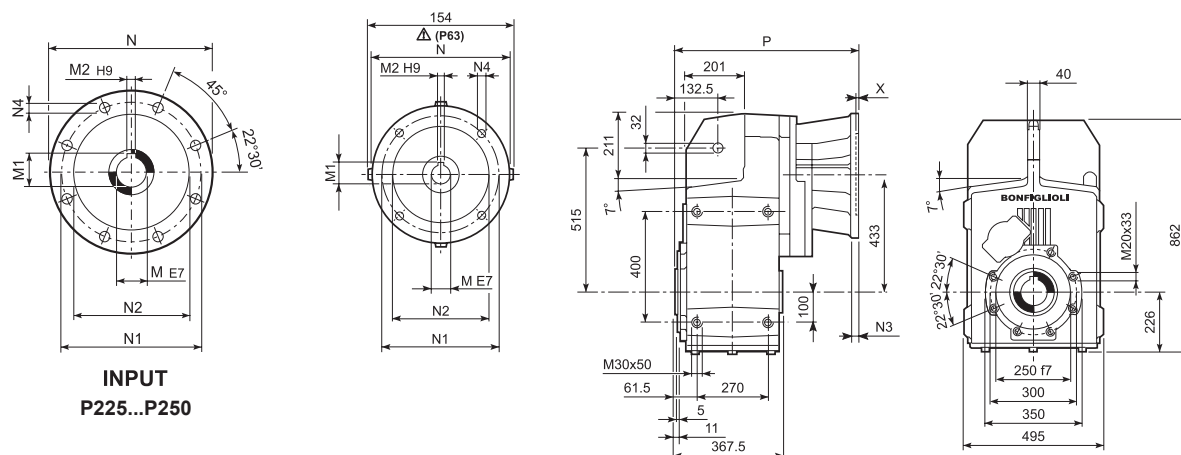
F 90...M



								M...FD M...FA		M...FD		M...FA	
			AC	H	L	AD		LF		R	AD	R	AD
F 90 3	S3	M3S	195	756	728	142	453	824	460	160	158	160	142
F 90 3	S3	M3L	195	756	760	142	460	851	467	160	158	160	142
F 90 3	S4	M4	258	787.5	868	193	494	977	512	226	210	217	193
F 90 3	S5	M5L	310	813.5	998.5	245	538	1138.5	568	266	245	247	245
F 90 4	S2	M2S	156	736.5	768	119	456	838	460	129	146	134	119
F 90 4	S3	M3S	195	756	811	142	460	907	468	160	158	160	142
F 90 4	S3	M3L	195	756	843	142	468	934	475	160	158	160	142
F 90 4	S4	M4	258	787.5	951	193	502	1060	520	226	210	217	193
F 90 4	S4	M4LC	258	787.5	986	193	510	1085	528	226	210	217	193

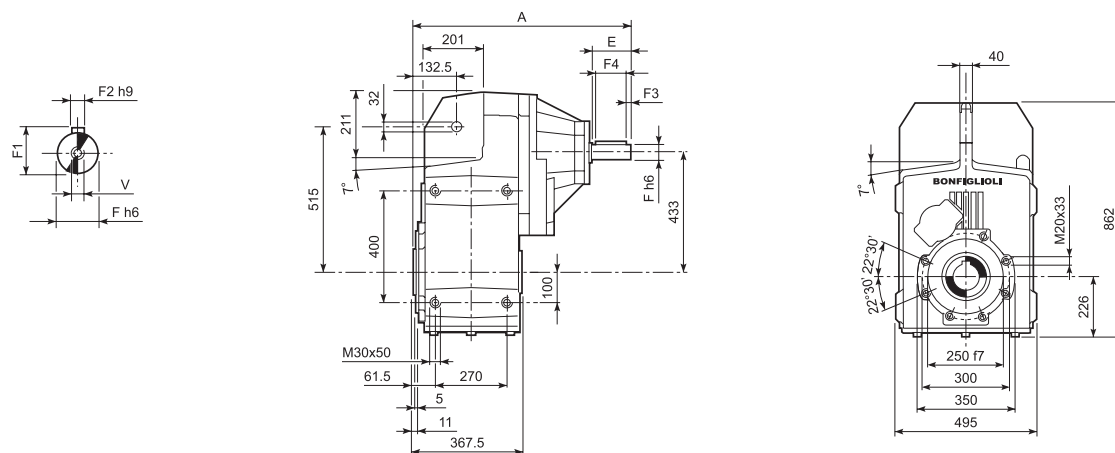


F 90...P(IEC)

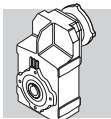


		M	M1	M2	N	N1	N2	N3	N4	X	P	Kg
F 90 3	P80	19	21.8	6	200	165	130	—	M10x14.5	4	520.5	442
F 90 3	P90	24	27.3	8	200	165	130	—	M10x14.5	4	520.5	442
F 90 3	P100	28	31.3	8	250	215	180	—	M12x16	4.5	530.5	446
F 90 3	P112	28	31.3	8	250	215	180	—	M12x16	4.5	530.5	446
F 90 3	P132	38	41.3	10	300	265	230	16	14	5	567	449
F 90 3	P160	42	45.3	12	350	300	250	23	18	6	622.5	463
F 90 3	P180	48	51.8	14	350	300	250	23	18	6	622.5	463
F 90 3	P200	55	59.3	16	400	350	300	—	M16x25	7	647.5	485
F 90 3	P225	60	64.4	18	450	400	350	30	18	6	693	485
F 90 3	P250	65	69.4	18	550	500	450	30	18	6	723	507
F 90 4	P63	11	12.8	4	140	115	95	—	M8x19	4	584	448
F 90 4	P71	14	16.3	5	160	130	110	—	M8x16	4.5	584	448
F 90 4	P80	19	21.8	6	200	165	130	—	M10x14.5	4	603.5	450
F 90 4	P90	24	27.3	8	200	165	130	—	M10x14.5	4	603.5	450
F 90 4	P100	28	31.3	8	250	215	180	—	M12x16	4.5	613.5	454
F 90 4	P112	28	31.3	8	250	215	180	—	M12x16	4.5	613.5	454
F 90 4	P132	38	41.3	10	300	265	230	16	14	5	650	455
F 90 4	P160	42	45.3	12	350	300	250	23	18	5.5	700.5	461
F 90 4	P180	48	51.8	14	350	300	250	23	18	5.5	700.5	461

F 90...HS

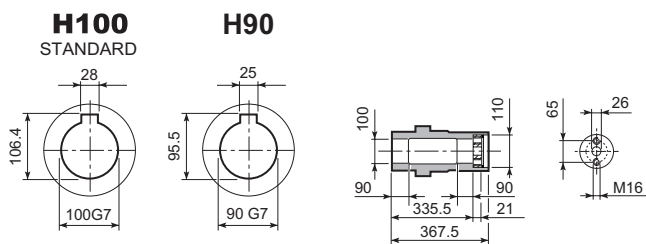


		A	E	F	F1	F2	F3	F4	V	Kg
F 90 3	HS	806.5	140	60	64	18	10	120	M16x36	485
F 90 4		673.5	50	24	27	8	2.5	45	M8x19	452

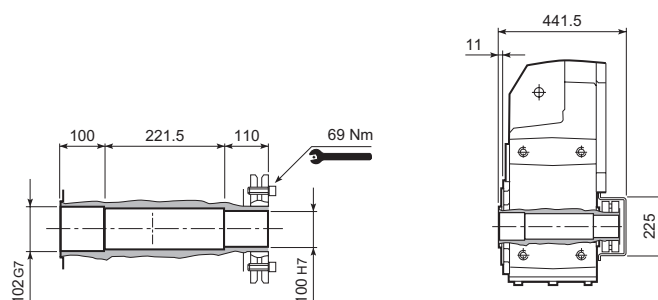


F 90

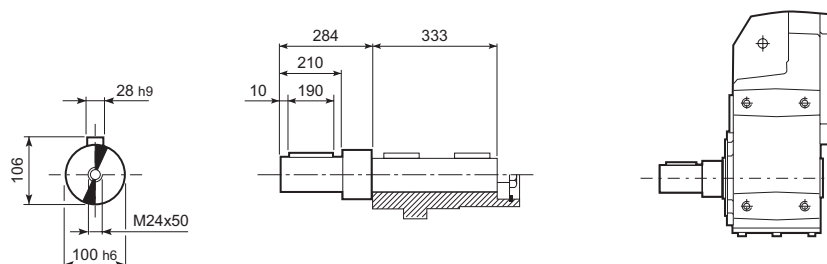
F 90...H



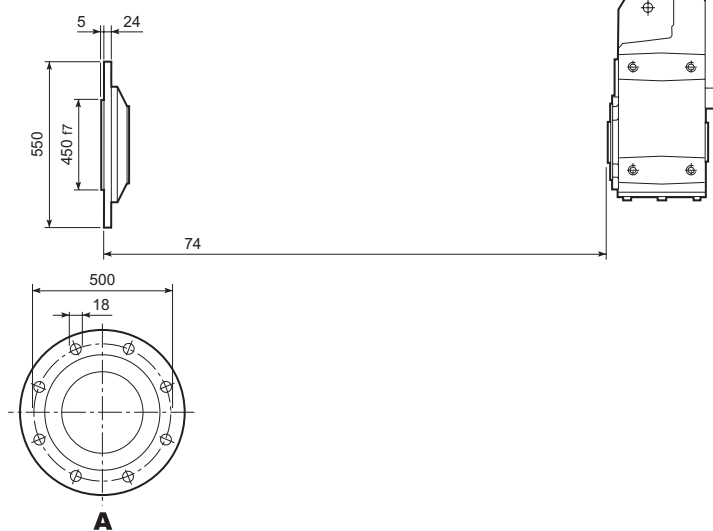
F 90...S



F 90...R



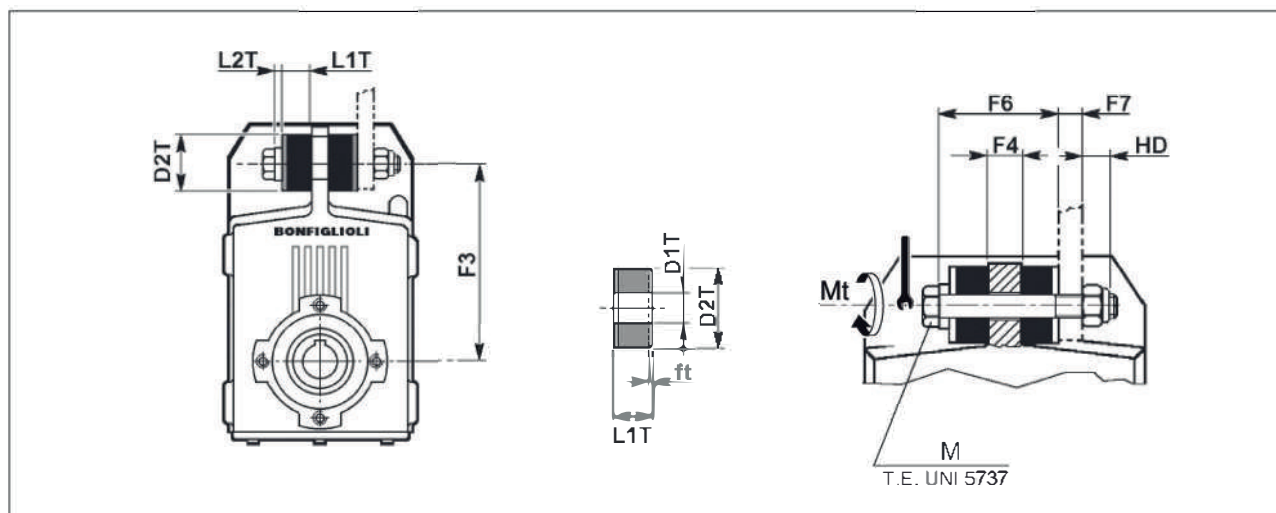
F 90...F...



Kit de fijación para brazo de Reacción

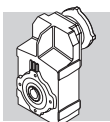
Los reductores de la serie F pueden ser equipados, bajo pedido, de un kit de fijación para brazo de reacción (antivibratorio) que incluye los elementos necesarios para la fijación pendular (brazo de reacción excluido).

Las dimensiones se muestran en la tabla siguiente.



	F3	F4	F6	F7 (max.)	HD	L1T	L2T	D1T	D2T	M	Mt [Nm]	ft
F 10	140	20	55	10	12.3	15	5	11	30	M10x80	10	1.5
F 20	160	20	55	10	12.3	15	5	11	30	M10x80	10	1.5
F 25	162	20	65	20	14.8	20	5	12.5	40	M12x100	20	1.5
F 31	170	20	65	20	14.8	20	5	12.5	40	M12x100	20	1.5
F 41	218	16	61	24	14.8	20	5	12.5	40	M12x100	20	2.3
F 51	278	20	90	47	23	30	10	21	60	M20x160	50	3.0
F 60	325	26	96	41	23	30	10	21	60	M20x160	50	4.0
F 70	370	30	122	50	28	40	12	25	80	M24x200	100	4.0
F 80	430	36	128	44	28	40	12	25	80	M24x200	100	6.0
F 90	515	40	175	40	33.2	60	15	32	100	M30x260	200	9.0

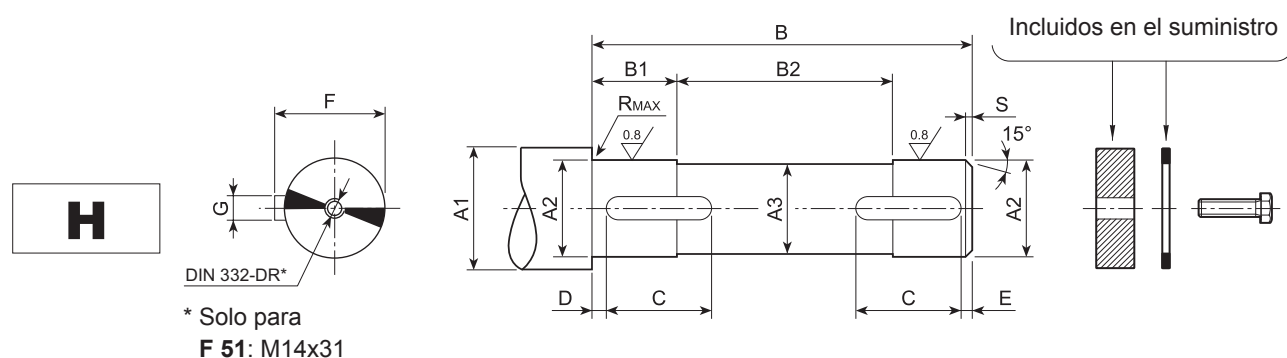
f_t = variación dimensional del disco de goma antivibración.



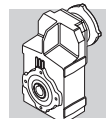
67 EJE DE LA MÁQUINA

En la construcción del eje de la máquina que ha de acoplarse al reductor utilizar acero de buena calidad y efectuar la mecanización como se indica en el esquema siguiente.

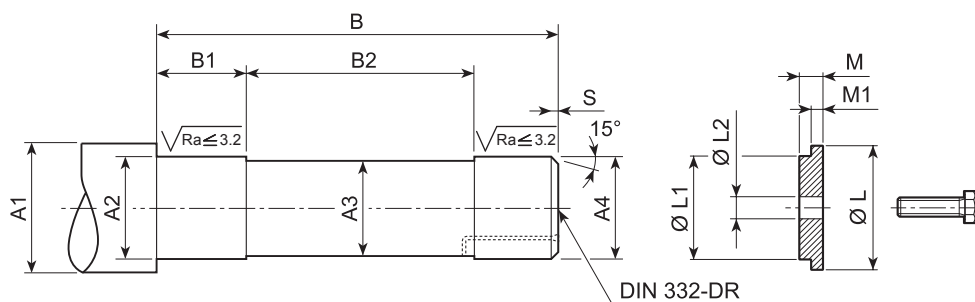
Aconsejamos, además, completar el montaje con un dispositivo que asegure la fijación axial del eje (no diseñado). La cantidad y dimensiones del/de lo/s taladro/s roscado/s en la extremidad del eje se determinará/ n según las diversas exigencias de la aplicación.



	A1	A2	A3	B	B1	B2	C	D	E	F	G	R	S	UNI 6604	UNI 5739
F 10	≥ 35	30 h7	29	87.5	15.5	56.5	20	2	2	33	8 h9	0.5	1.5	8x7x20 A	M8x25
	≥ 30	25 h7	24	87.5	15.5	56.5	20	2	2	28	8 h9	0.5	1.5	8x7x20 A	
F 20	≥ 42	35 h7	34	99	18	63	22	2	2	38	10 h9	0.5	1.5	10x8x22 A	M8x30
	≥ 35	30 h7	29	99	18	63	22	2	2	33	8 h9	0.5	1.5	8x7x22 A	
F 25	≥ 47	40 h7	39	104	23	58	30	2	2	43	12 h9	0.5	1.5	12x8x30 A	M8x30
	≥ 42	35 h7	34	104	23	58	30	2	2	38	10 h9	0.5	1.5	10x8x30 A	
F 31	≥ 47	40 h7	39	104	28	48	30	2	2	43	12 h9	0.5	1.5	12x8x30 A	M8x30
	≥ 42	35 h7	34	104	28	48	30	2	2	38	10 h9	0.5	1.5	10x8x30 A	
F 41	≥ 52	45 h7	44	118	27.5	63	45	2.5	2.5	48.5	14 h9	1	2.0	14x9x45 A	M10x30
	≥ 47	40 h7	39	118	27.5	63	45	2.5	2.5	43	12 h9	1	2.0	12x8x45 A	
F 51	≥ 63	55 h7	54	139	33	73	50	2.5	2.5	59	16 h9	1	2.0	16x10x50 A	M14x45
	≥ 57	50 h7	49	139	33	73	50	2.5	2.5	53.5	14 h9	1	2.0	14x9x50 A	
F 60	≥ 78	70 h7	69	180	38	104	70	2.5	2.5	74.5	20 h9	1	2.0	20x12x70 A	M16x45
	≥ 68	60 h7	59	180	38	104	70	2.5	2.5	64	18 h9	1	2.0	18x11x70 A	
F 70	≥ 89	80 h7	79	229	58	113	75	3	3	85	22 h9	2.5	2.5	22x14x75 A	M20x55
	≥ 78	70 h7	69	229	58	113	75	3	3	74.5	20 h9	2.5	2.5	20x12x75 A	
F 80	≥ 99	90 h7	89	272	78	116	100	3	3	95	25 h9	2.5	2.5	25x14x100 A	M20x55
	≥ 89	80 h7	79	272	78	116	100	3	3	85	22 h9	2.5	2.5	22x14x100 A	
F 90	≥ 111	100 h7	99	333	87.5	158	110	3	3	106	28 h9	2.5	2.5	28x16x110 A	M24x65
	≥ 99	90 h7	89	333	87.5	158	110	3	3	95	25 h9	2.5	2.5	25x14x110 A	

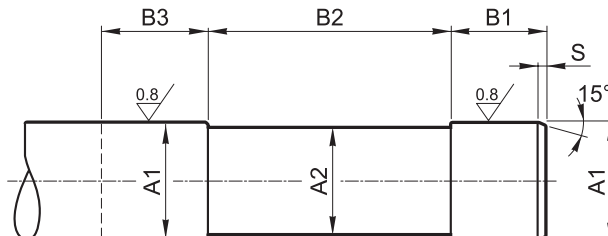


S

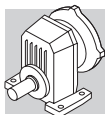


	A1	A2	A3	A4	B	B1	B2	R	S	L	L1	L2	M	M1	UNI 5739
F 10	≥ 36	27 h7	24	25 h6	138	34	70	0.5	1.5	29.5	25 d9	9	7	5.5	M8x25
F 20	≥ 42	32 h7	29	30 h6	160	38	84	0.5	1.5	35.5	30 d9	9	7	5.5	M8x25
F 25	≥ 42	32 h7	30	31 h6	172	38	96	0.5	1.5	35.5	31 d9	9	7	5.5	M8x25
F 31	≥ 50	38 h7	35	36 h6	155	40	73	1	2	43	36 d9	9	7	5.5	M8x25
F 41	≥ 58	44 h7	41	42 h6	177	46.5	82	1	2	49	42 d9	11	8.5	7	M10x30
F 51	≥ 68	54 h7	51	52 g6	201	48	91	1	2	61	52 d9	18	9	7.5	M16x45
F 60	≥ 84	67 h7	64	65 g6	248	53	133	1.5	2	80	65 d9	18	9	7.5	M16x45
F 70	≥ 104	82 h7	79	80 g6	308	78	140	2.5	2.5	95	80 d9	22	13.5	12	M20x55
F 80	≥ 114	92 h7	89	90 g6	365	88	177	2.5	2.5	105	90 d9	22	13.5	12	M20x55
F 90	≥ 126	102 h7	99	100 g6	429.5	98	221.5	2.5	2.5	120	100 d9	26	20	18.5	M24x70

QF



		A1	A2	B1	B2	B3	S
F 10	QF25	25 h6	24	41	83	≥ 50	1.5
	QF30	30 h6	29				
F 20	QF25	25 h6	24	41	104.5	≥ 50	1.5
	QF30	30 h6	29				
F 25	QF30	30 h6	29	41	120.5	≥ 50	1.5
	QF32	32 h6	31				
F 31	QF35	35 h6	34	45	95.5	≥ 54	1.5
	QF40	40 h6	39				
F 41	QF42	42 h6	41	46	112.5	≥ 55	2
	QF45	45 h6	44				
F 51	QF50	50 h6	49	48	131	≥ 57	2
	QF55	55 h6	54				
F 60	QF60	60 h6	59	57	158	≥ 66	2.5
	QF65	65 h6	64				
	QF70	70 h6	69				



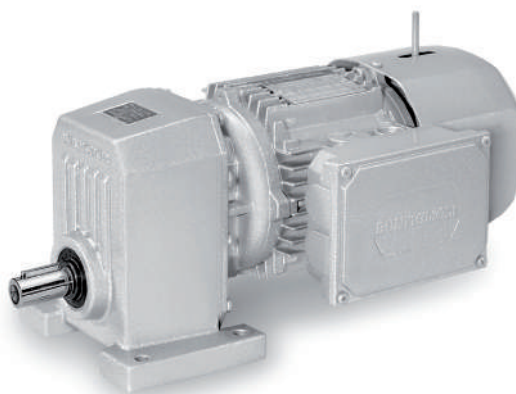
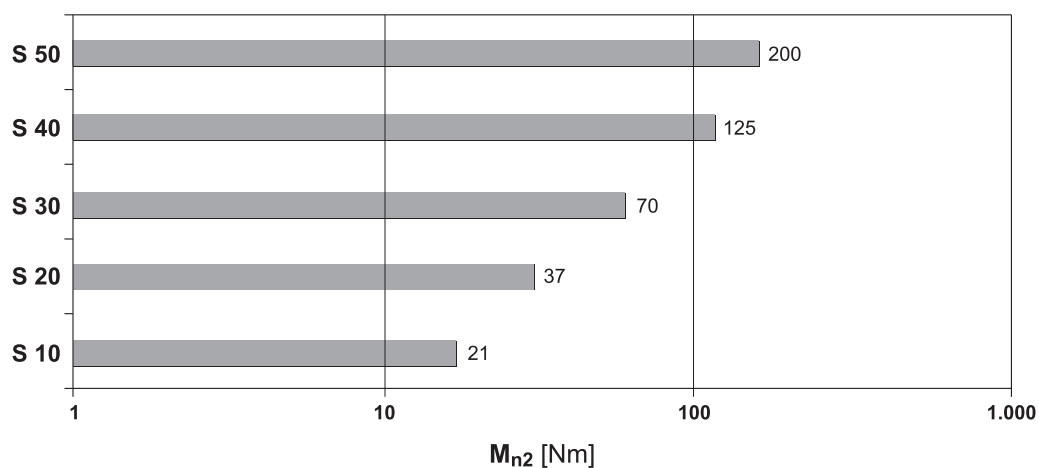
REDUCTORES DE UNA SOLA ETAPA SERIE S

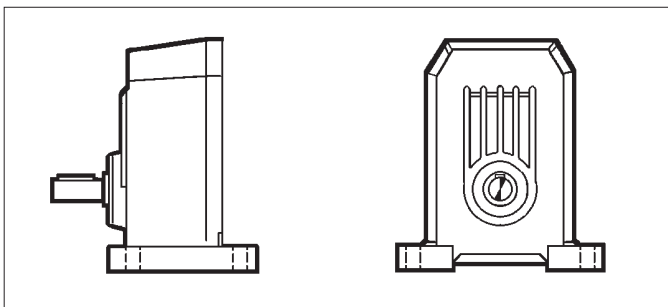
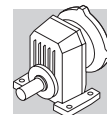
68 CARACTERISTICAS CONSTRUCTIVAS

Las principales características constructivas son:

- modularidad
- diseño compacto
- rendimientos elevados
- bajo nivel de rumorosidad
- engranajes de acero aleado, cementados y templados
- cajas de aluminio sin pintar en los tamaños 10, 20, 30, cajas de fundición de alta resistencia, pintadas, para los otros tamaños
- ejes de entrada y salida de acero de alta resistencia.

(E 60)

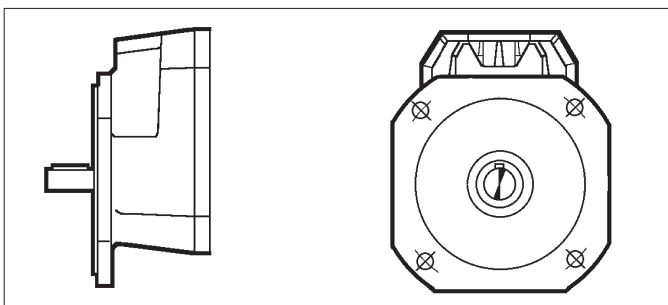




P

Patas integradas

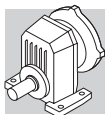
S 10 ... S 50



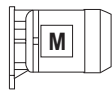
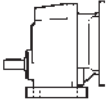
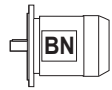
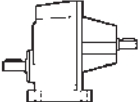
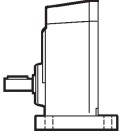
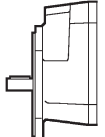
F

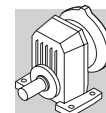
Brida integrada

S 10 ... S 50

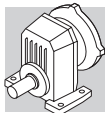


70 DESIGNACIÓN

REDUCTOR																
S	10	1	P	1.4	S1	B3										
							OPCIONES									
							POSICIÓN DE MONTAJE S...P: B3 (estandar), B6, B7, B8, V5, V6 S...F: B5 (estandar), B51, B52, B53, V1, V3									
							DESIGNACION DE LA ENTRADA									
				 <table border="1"> <tr> <td>S05</td> <td>S3</td> </tr> <tr> <td>S1</td> <td>S4</td> </tr> <tr> <td>S2</td> <td>S5</td> </tr> </table> 		S05	S3	S1	S4	S2	S5					
S05	S3															
S1	S4															
S2	S5															
				 <table border="1"> <tr> <td>P63</td> <td>P112</td> </tr> <tr> <td>P71</td> <td>P132</td> </tr> <tr> <td>P80</td> <td>P160</td> </tr> <tr> <td>P90</td> <td>P180</td> </tr> <tr> <td>P100</td> <td></td> </tr> </table> 		P63	P112	P71	P132	P80	P160	P90	P180	P100		
P63	P112															
P71	P132															
P80	P160															
P90	P180															
P100																
				 <table border="1"> <tr> <td>HS</td> </tr> </table>		HS										
HS																
							RELACION DE REDUCCIÓN									
							FORMA CONSTRUCTIVA									
				 												
				P F												
							Nº DE ETAPAS DE REDUCCIÓN 1									
							TAMAÑO REDUCTOR 10, 20, 30, 40, 50									
TIPO: S = monostadio																



MOTOR										FRENO					
M	1	LA	4	230/400-50	IP54	CLF		W	FD	7.5	R	SB	220	SA	
OPCIONES															
ALIMENTACIÓN FRENO															
RECTIFICADOR AC/DC NB, SB, NBR, SBR															
PALANCA DESBLOQUEO FRENO R, RM															
PAR DE FRENADO															
TIPO DE FRENO FD (freno c.c.) FA (freno c.a.)															
POSICIÓN CAJA DE BORNES W (por defecto), N, E, S															
FORMA CONSTRUCTIVA — (motor integrado) B5 (motor IEC)															
CLASE DE AISLAMIENTO CL F estandar CL H opción															
GRADO DE PROTECCIÓN IP55 estandar (IP54 - motor freno)															
TENSIÓN – FRECUENCIA															
NÚMERO DE POLOS 2, 4, 6, 2/4, 2/6, 2/8, 2/12, 4/6, 4/8															
TAMAÑO MOTOR 0B ... 5LA (motor integrado) 63A ... 180L (motor IEC)															
TIPO MOTOR M = trifásico integrado BN = trifásico IEC															



70,1 Opciones reductores

LUBRICACIÓN

Los reductores S10, S20, S30 y S40 se llenan normalmente de fábrica con aceite en la versión estándar.

Los reductores S50, normalmente se suministra sin lubricar en la versión estándar.

Sin embargo, para todos los tamaños de reductores llenados de fábrica con aceite, es posible solicitar el suministro con más tipos de aceite, seleccionables según lo definido en la siguiente tabla.

LUBRICACIÓN	Tipo	Designacion	Productor
LU	Polialfaolefina (PAO)	OMALA S4 GX 150	
LY	Polialfaolefina (PAO)	OMALA S4 GX 220	
LV	Polialfaolefina (PAO)	OMALA S4 GX 320	
LW	Polialfaolefina (PAO)	OMALA S4 GX 460	
LH	Poliglicol (PAG)	OMALA S4 WE 150	
LS	Poliglicol (PAG)	OMALA S4 WE 220	
LO*	Poliglicol (PAG)	OMALA S4 WE 320	
LK	Poliglicol (PAG)	OMALA S4 WE 460	
LN ^[1]	Base Mineral EP	OMALA S2 G 150	
LZ ^[1]	Base Mineral EP	OMALA S2 G 220	
LI ^[1]	Base Mineral EP	OMALA S2 G 320	
LJ ^[1]	Base Mineral EP	OMALA S2 G 460	
LA	Uso alimentario	KLUBERSYNTH UH1 6-150	
LB	Uso alimentario	KLUBERSYNTH UH1 6-220	
LC	Uso alimentario	KLUBERSYNTH UH1 6-320	
LD	Uso alimentario	KLUBERSYNTH UH1 6-460	

* Salvo indicación contraria, los reductores S10, S20 e S30 y S40 suministrados con carga de lubricante utilizan aceite OMALA S4 WE 320.

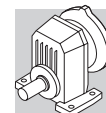
[1] Se permite el uso de aceite mineral en motorreductores con factor de servicio $f_s \geq 1,30$.

SO

Los reductores S10, S20, S30 y S40, normalmente suministrados con lubricante de BONFIGLIOLI RIDUTTORI, se suministran sin Lubricante.

DV

2 retenes en el eje de entrada. (Disponible únicamente en los motorreductores compactos).



VV

Reten de fluoro-elastómero en el eje rápido.

PV

Todos los retenes de fluoro-elastómero.

BP

Los reductores, que generalmente se suministran con un tapón de ventilación abierto, se suministran con un tapón de ventilación de válvula. La calibración de la válvula puede variar de 0,10 a 0,15 bar dependiendo del tipo de tapón. La válvula se abre a intervalos y permite la ventilación de la presión interna evitando la entrada de cuerpos extraños.

Para conocer la disponibilidad de opciones, consulte el capítulo "Posiciones de montaje y enchufes de servicio" del Manual de instalación, operación y mantenimiento (disponible en: www.bonfiglioli.com).

Si es necesario, póngase en contacto con el Servicio Técnico de Bonfiglioli.

PROTECCIÓN DE LA SUPERFICIE

Cuando no se requiere ninguna clase de protección específica, las superficies de los reductores (ferrosas) pintadas están protegidas al menos con la clase de corrosividad C2 (UNI EN ISO 12944-2). Para mejorar la resistencia a la corrosión atmosférica, los reductores se pueden entregar con una protección de superficie **C3** y **C4**, que se obtiene a partir del pintado completo del reductor.

(E 61)

PROTECCIÓN SUPERFICIE	Ambientes típicos	Temperatura máxima superficie	Clase corrosividad conforme a UNI EN ISO 12944-2
C3	Ambientes industriales y urbanos con una humedad relativa de hasta el 100% (contaminación atmosférica media)	120°C	C3
C4	Zonas industriales, zonas costeras, fábrica de productos químicos, con una humedad relativa de hasta el 100% (alta contaminación atmosférica)	120°C	C4

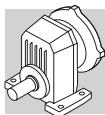
Los reductores con la protección opcional de clase C3 o C4 están disponibles en una variedad de colores.

Si no se solicita color específico (ver la opción "PINTURA") el acabado de los reductores será en RAL 7042.

Los reductores también se pueden suministrar con protección de la superficie para la clase de corrosividad **C5** según la norma UNI EN ISO 12944-2. Póngase en contacto con nuestro Servicio Técnico para más detalles.

PINTURA

Los reductores con la protección opcional de clase C3 o C4 están disponibles en los colores que figuran en la siguiente tabla.



(E 62)

PINTURA	Color	Número RAL
RAL7042*	Gris Tráfico A	7042
RAL5010	Azul genciana	5010
RAL9005	Negro Jet	9005
RAL9006	Aluminio Blanco	9006
RAL9010	Blanco Puro	9010
RAL7035	Gris claro	7035
RAL7001	Gris-plata	7001
RAL5015	Azul cielo	5015
RAL7037	Gris polvoriento	7037
RAL5024	Azul pastel	5024

* Los reductores se suministran en este color estándar si no se especifica ningún otro color.

NOTA - Las opciones "PINTURA" sólo se pueden especificar en combinación con las opciones "PROTECCIÓN DE LA SUPERFICIE".

DOCUMENTACIÓN

Certificado de conformidad (AC)

Documento en el cual se certifica la conformidad del producto con lo indicado en el pedido y su fabricación según los procedimientos estándar de producción y control que establece el sistema de calidad de Bonfiglioli Riduttori.

Certificado de prueba (CC)

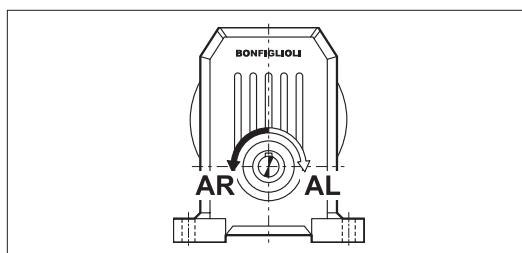
La obtención de este certificado conlleva verificar la conformidad del producto con el pedido, realizar inspecciones visuales de carácter general y comprobar las dimensiones de acoplamiento. Además, exige realizar controles generales de funcionamiento en vacío y comprobar la eficacia de las juntas de retén con el sistema estático y en funcionamiento. Para llevar a cabo la prueba se utiliza una muestra estadística del lote de expedición.

70,2 Opciones motores

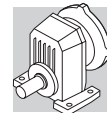
AL, AR

Para los motorreductores equipados con motor compacto serie M, está disponible la opción antirretorno colocado sobre el propio motor e indicado en la sección motores eléctricos de este catálogo. La tabla siguiente indica el sentido de giro libre del reductor, en base al cual, deberá de realizarse la selección de la opción.

(E 63)



Para mayor información sobre las opciones, consultar el correspondiente capítulo en la sección de motores eléctricos.



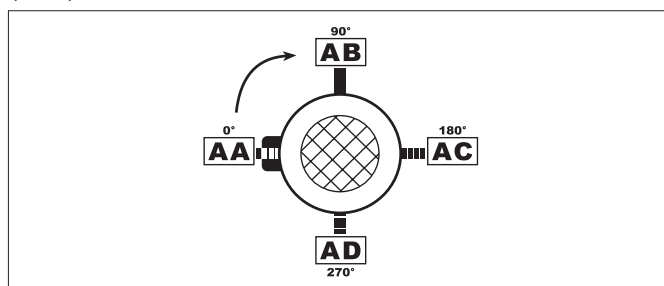
71 POSICIÓN DE MONTAJE Y ORIENTACIÓN DE LA CAJA DE CONEXIONES

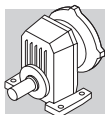
La orientación de la caja de conexiones del motor se identifica observando el motor por el lado del ventilador; la orientación estándar está resaltada en **negrita** (W)

Posición angular de la palanca del desbloqueo del freno.

En los motores freno, la palanca de desbloqueo del freno (opcional) tiene la orientación estándar a 90° respecto a la caja de conexiones (posición **AB**); en caso de requerir una orientación distinta, especifíquese mediante los correspondientes códigos de opciones.

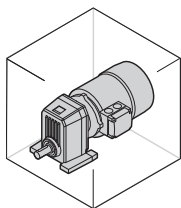
(E 64)



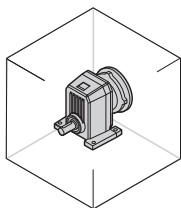


S ... P

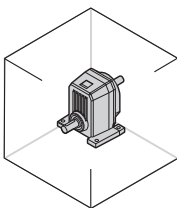
B3



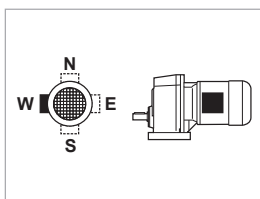
_S



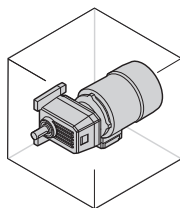
_P(IEC)



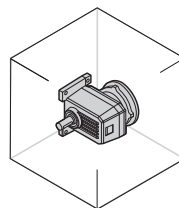
_HS



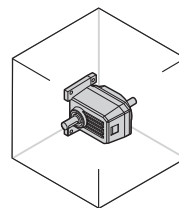
B6



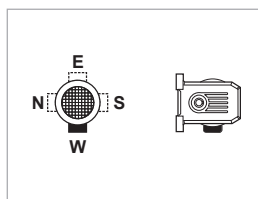
_S



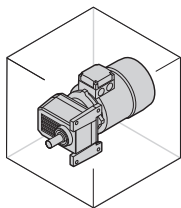
_P(IEC)



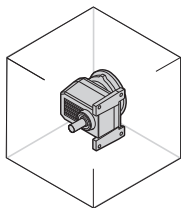
_HS



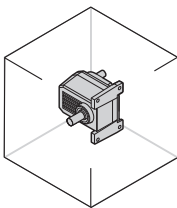
B7



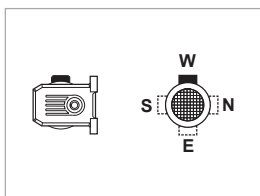
_S



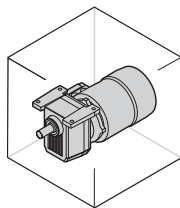
_P(IEC)



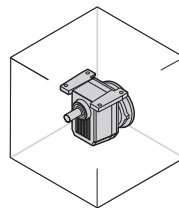
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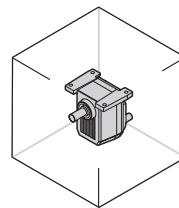
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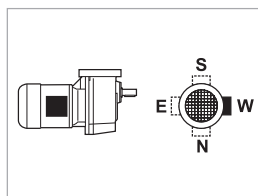
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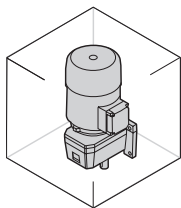
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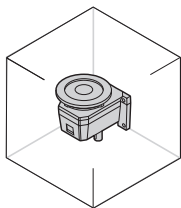
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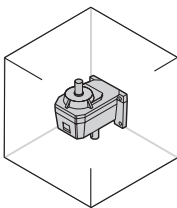
V5



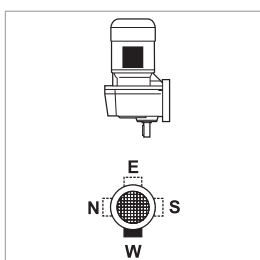
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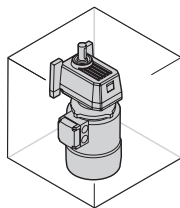
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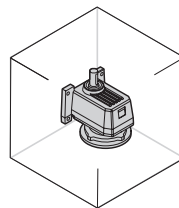
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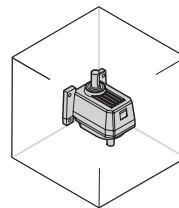
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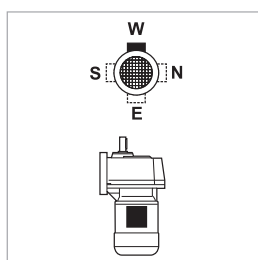
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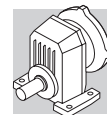
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_HS

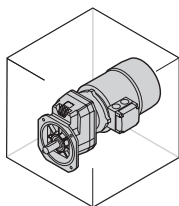


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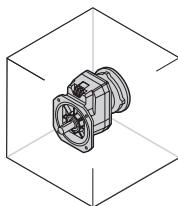


S ... F

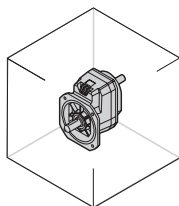
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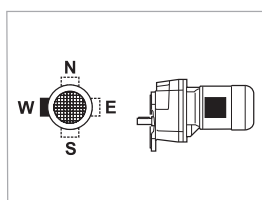
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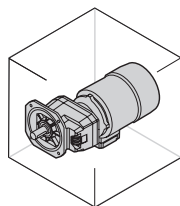
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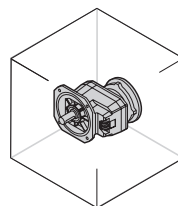
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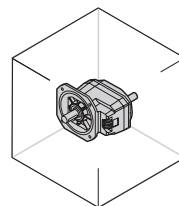
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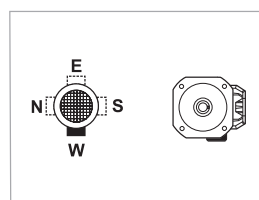
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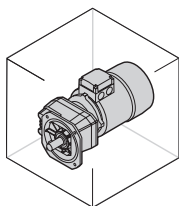
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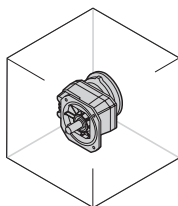
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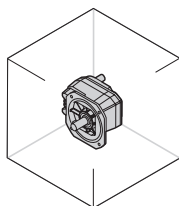
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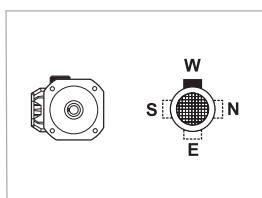
_S



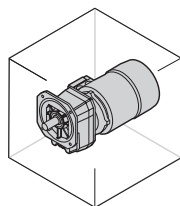
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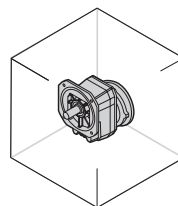
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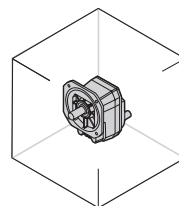
B52



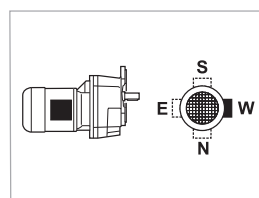
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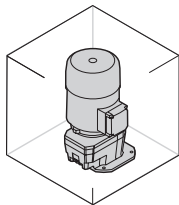
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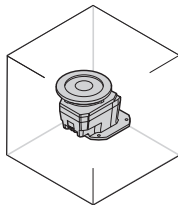
_HS



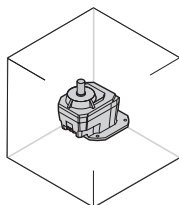
V1



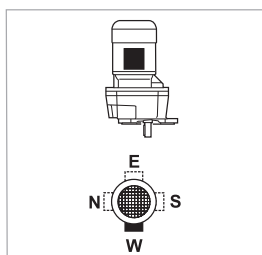
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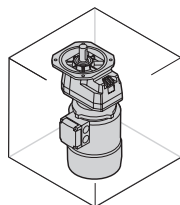
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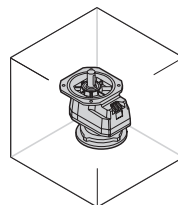
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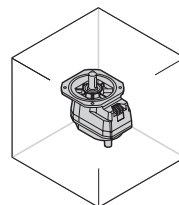
V3



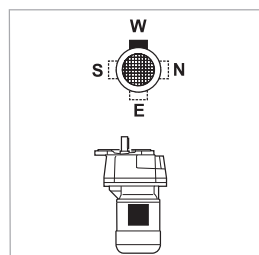
_S



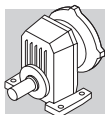
_P(IEC)



_HS



W = Default



72 CARGAS RADIALES

Los órganos de transmisión acoplados en los ejes de entrada y/o salida del reductor generan una fuerza resultante en sentido radial que actúa sobre el mismo eje.

El valor de dichas cargas deberá ser compatible con la capacidad del sistema eje – cojinetes del reductor para soportarlas, en particular el valor absoluto de la carga aplicada (R_{c1} para el eje de entrada, R_{c2} para el eje de salida) deberá ser inferior al valor nominal (R_{n1} para el eje de entrada, y R_{n2} para el de salida) contenido en las tablas de datos técnicos.

En las siguientes formulas, el subíndice (1) se refiere a los valores correspondientes al eje de entrada y el subíndice (2) a los valores correspondientes al eje de salida. La carga generada por un sistema de transmisión externo puede ser calculada, con una buena aproximación, mediante la siguiente formula:

$$R_{c1} [N] = \frac{2000 \cdot M_1 [Nm] \cdot K_r}{d [mm]} \quad ; \quad R_{c2} [N] = \frac{2000 \cdot M_2 [Nm] \cdot K_r}{d [mm]} \quad (44)$$

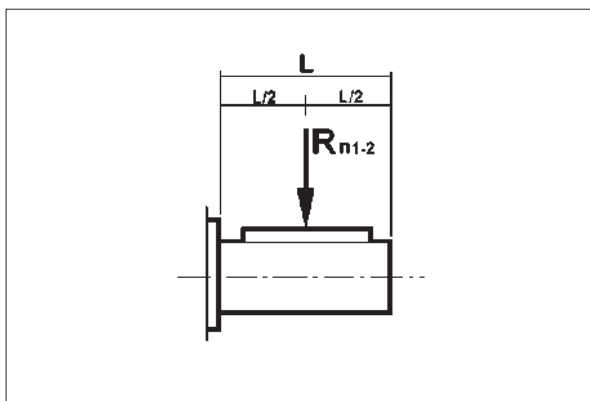
(E 65)

M₁ [Nm]	Par aplicado en el eje de entrada
M₂ [Nm]	Par suministrado en el eje de Salida
d [mm]	Diámetro primitivo de la pieza montada sobre el eje
K_r = 1	Transmisión por cadena

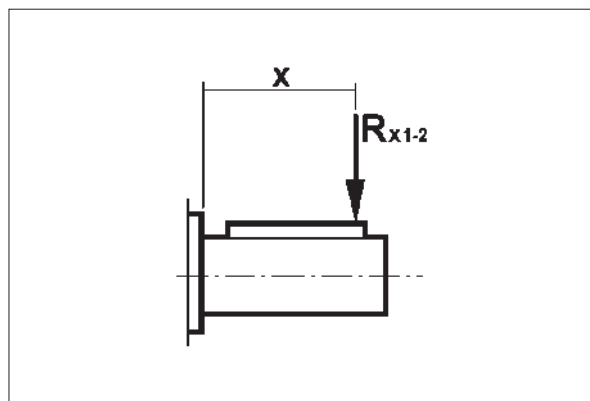
K_r = 1,25	Transmisión por engranaje
K_r = 1,5	Transmisión por correa trapecial
K_r = 2,0	Transmisión por correa plana

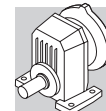
Dependiendo del punto de aplicación de la carga sobre el eje, la verificación de compatibilidad se procederá de modo distinto y en particular:

(E 66)



(E 67)





a) Aplicación de la carga en el punto medio del eje, tabla (E66)

La carga anteriormente calculada se deberá comparar con el correspondiente valor nominal de catálogo y deberá verificarse:

Rc1 Rn1 [eje de entrada]

o bien

Rc2 Rn2 [eje de salida]

b) Aplicación de la carga a una distancia x del apoyo del eje, tabla (E67)

Cuando la carga se aplica a una distancia “x” del resalte del eje, se debe recalcular el valor admisible a dicha distancia.

El nuevo valor se distingue con el símbolo Rx1 (eje rápido) y Rx2 (eje lento) y se obtiene a partir de los valores de catálogo Rn1 y Rn2 respectivamente a través del factor.

$$\frac{a}{b+x} \quad (45)$$

(E 68)

	Constantes del reductor					
	Eje de salida			Eje de entrada		
	a	b	c	a	b	c
S 10 1	61	46	200	21	1	300
S 20 1	73.5	53.5	270	40	20	350
S 30 1	91.5	66.5	380	38.5	18.5	350
S 40 1	126.5	96.5	600	49.5	24.5	450
S 50 1	153.5	113.5	680	49.5	24.5	450

El procedimiento de verificación implica los siguientes pasos:

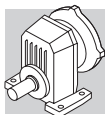
EJE DE ENTRADA

1. Cálculo de:

$$R_{x1} = R_{n1} \cdot \frac{a}{b+x} \quad (46)$$

Siempre que se cumpla:

$$\frac{L}{2} \leq x \leq c \quad (47)$$



Finalmente será necesario comprobar que:

$$R_{c1} \leq R_{x1} \quad (48)$$

EJE DE SALIDA

1. Calculo de:

$$R_{x2} = R_{n2} \cdot \frac{a}{b+x} \quad (49)$$

Siempre que se cumpla:

$$\frac{L}{2} \leq x \leq c \quad (50)$$

Finalmente será necesario comprobar Que:

$$R_{c2} \leq R_{x2} \quad (51)$$

73 CARGAS AXIALES, A_{n1} , A_{n2}

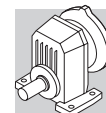
Las cargas axiales máximas admisibles en el eje de entrada $[A_{n1}]$ y en el de salida $[A_{n2}]$, se pueden obtener a partir de los correspondientes valores de la carga radial $[R_{n1}]$ y $[R_{n2}]$ mediante las siguientes expresiones:

$$\begin{aligned} A_{n1} &= R_{n1} \cdot 0.2 \\ A_{n2} &= R_{n2} \cdot 0.2 \end{aligned} \quad (52)$$

Los valores de las cargas axiales admisibles así calculados, están referidos a cargas axiales actuando a la vez con las cargas radiales nominales.

Únicamente en el caso en que la carga radial que actúe sobre el eje del reductor sea nula, se podrá considerar que la carga axial admisible $[A_n]$ es el 50% del valor de la carga radial $[R_n]$ admisible para el eje en cuestión.

Ante cargas axiales que superen los valores admisibles o de fuerzas axiales que resulten claramente dominantes sobre las cargas radiales, se recomienda contacten con nuestro Servicio Técnico.



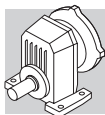
74 DATOS TECNICOS MOTORREDUCTORES

0.09 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
69	12.1	2.9	13.1	2400			S301_13.1 P63 BN63A6	513
73	11.5	1.7	12.4	1500	S201_12.4 S05 M05A6	510	S201_12.4 P63 BN63A6	511
74	11.4	1.1	12.3	1160	S101_12.3 S05 M05A6	508	S101_12.3 P63 BN63A6	509
85	10.0	2.0	10.8	1500	S201_10.8 S05 M05A6	510	S201_10.8 P63 BN63A6	511
88	9.5	1.3	10.3	1100	S101_10.3 S05 M05A6	508	S101_10.3 P63 BN63A6	509
103	8.2	1.5	8.9	1060	S101_8.9 S05 M05A6	508	S101_8.9 P63 BN63A6	509
107	7.9	2.5	8.5	1500	S201_8.5 S05 M05A6	510	S201_8.5 P63 BN63A6	511
132	6.4	2.7	6.9	990	S101_6.9 S05 M05A6	508	S101_6.9 P63 BN63A6	509
149	5.7	3.0	6.1	960	S101_6.1 S05 M05A6	508	S101_6.1 P63 BN63A6	509
193	4.4	3.2	4.7	890	S101_4.7 S05 M05A6	508	S101_4.7 P63 BN63A6	509
237	3.6	3.9	3.8	830	S101_3.8 S05 M05A6	508	S101_3.8 P63 BN63A6	509
284	3.0	4.7	3.2	790	S101_3.2 S05 M05A6	508	S101_3.2 P63 BN63A6	509
364	2.3	5.2	2.5	730	S101_2.5 S05 M05A6	508	S101_2.5 P63 BN63A6	509
485	1.7	6.9	1.9	670	S101_1.9 S05 M05A6	508	S101_1.9 P63 BN63A6	509
640	1.3	9.1	1.4	610	S101_1.4 S05 M05A6	508	S101_1.4 P63 BN63A6	509

0.12 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
69	16.2	2.2	13.1	2400			S301_13.1 P63 BN63A4	513
73	15.3	1.3	12.4	1500	S201_12.4 S05 M05B6	510	S201_12.4 P63 BN63B6	511
85	13.3	1.5	10.8	1500	S201_10.8 S05 M05B6	510	S201_10.8 P63 BN63B6	511
88	12.7	2.8	10.3	2400			S301_10.3 P63 BN63B6	513
88	12.7	0.9	10.3	1060	S101_10.3 S05 M05B6	508	S101_10.3 P63 BN63B6	509
102	11.0	3.2	8.9	2400			S301_8.9 P63 BN63B6	513
103	11.0	1.1	8.9	1030	S101_8.9 S05 M05B6	508	S101_8.9 P63 BN63B6	509
107	10.5	2.8	13.1	2400			S301_13.1 P63 BN63B6	513
107	10.5	1.9	8.5	1500	S201_8.5 S05 M05B6	510	S201_8.5 P63 BN63B6	511
113	10.0	1.7	12.4	1500	S201_12.4 S05 M05A4	510	S201_12.4 P63 BN63A4	511
114	9.9	1.0	12.3	1000	S101_12.3 S05 M05A4	508	S101_12.3 P63 BN63A4	509
126	8.9	3.4	7.2	1500	S201_7.2 S05 M05B6	510	S201_7.2 P63 BN63B6	511
130	8.6	2.0	10.8	1500	S201_10.8 S05 M05A4	510	S201_10.8 P63 BN63A4	511
132	8.5	2.0	6.9	960	S101_6.9 S05 M05B6	508	S101_6.9 P63 BN63B6	509
136	8.3	1.2	10.3	960	S101_10.3 S05 M05A4	508	S101_10.3 P63 BN63A4	509
149	7.5	2.3	6.1	940	S101_6.1 S05 M05B6	508	S101_6.1 P63 BN63B6	509
158	7.1	1.4	8.9	920	S101_8.9 S05 M05A4	508	S101_8.9 P63 BN63A4	509
165	6.8	2.5	8.5	1500	S201_8.5 S05 M05A4	510	S201_8.5 P63 BN63A4	511
193	5.8	2.4	4.7	870	S101_4.7 S05 M05B6	508	S101_4.7 P63 BN63B6	509
203	5.5	2.7	6.9	860	S101_6.9 S05 M05A4	508	S101_6.9 P63 BN63A4	509
229	4.9	3.1	6.1	830	S101_6.1 S05 M05A4	508	S101_6.1 P63 BN63A4	509
237	4.7	2.9	3.8	820	S101_3.8 S05 M05B6	508	S101_3.8 P63 BN63B6	509
284	3.9	3.5	3.2	780	S101_3.2 S05 M05B6	508	S101_3.2 P63 BN63B6	509
296	3.8	3.2	4.7	770	S101_4.7 S05 M05A4	508	S101_4.7 P63 BN63A4	509
364	3.1	3.9	3.8	720	S101_3.8 S05 M05A4	508	S101_3.8 P63 BN63A4	509
364	3.1	3.9	2.5	720	S101_2.5 S05 M05B6	508	S101_2.5 P63 BN63B6	509
438	2.6	4.7	3.2	680	S101_3.2 S05 M05A4	508	S101_3.2 P63 BN63A4	509

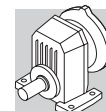


0.12 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
485	2.3	5.2	1.9	660	S101_1.9 S05 M05B6	508	S101_1.9 P63 BN63B6	509
560	2.0	5.0	2.5	630	S101_2.5 S05 M05A4	508	S101_2.5 P63 BN63A4	509
640	1.8	6.8	1.4	600	S101_1.4 S05 M05B6	508	S101_1.4 P63 BN63B6	509
747	1.5	6.6	1.9	580	S101_1.9 S05 M05A4	508	S101_1.9 P63 BN63A4	509
985	1.1	8.8	1.4	530	S101_1.4 S05 M05A4	508	S101_1.4 P63 BN63A4	509

0.18 kW

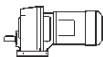
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
69	24.6	1.4	13.1	2400	S401_12.4 S1 M1SC6	514	S301_13.1 P71 BN71A6	513
73	23.2	2.5	12.4	3800			S401_12.4 P71 BN71A6	506
84	20.1	1.0	10.8	1500			S201_10.8 P71 BN71A6	511
84	20.0	2.9	10.7	3800	S401_10.7 S1 M1SC6	514	S401_10.7 P71 BN71A6	506
87	19.3	1.8	10.3	2400	S301_10.3 S1 M1SC6	512	S301_10.3 P71 BN71A6	513
101	16.6	2.1	8.9	2400	S301_8.9 S1 M1SC6	512	S301_8.9 P71 BN71A6	513
106	15.9	1.3	8.5	1500	S201_8.5 S1 M1SC6	510	S201_8.5 P71 BN71A6	511
106	15.9	1.9	13.1	2400	S201_12.4 S05 M05B4	510	S301_13.1 P63 BN63B4	513
112	15.1	1.1	12.4	1500			S201_12.4 P63 BN63B4	511
112	15.0	3.3	12.4	3800			S401_12.4 P63 BN63B4	515
125	13.5	2.2	7.2	1500	S201_7.2 S1 M1SC6	510	S201_7.2 P71 BN71A6	511
129	13.0	1.3	10.8	1500	S201_10.8 S05 M05B4	510	S201_10.8 P63 BN63B4	511
130	12.9	1.3	6.9	910	S101_6.9 S1 M1SC6	508	S101_6.9 P71 BN71A6	509
135	12.5	2.4	10.3	2330	S101_6.1 S1 M1SC6	508	S301_10.3 P63 BN63B4	513
147	11.4	1.5	6.1	890			S101_6.1 P71 BN71A6	509
155	10.9	2.8	5.8	1500			S201_5.8 P71 BN71A6	511
156	10.8	2.8	8.9	2230	S101_8.9 S05 M05B4	508	S301_8.9 P63 BN63B4	513
157	10.8	0.9	8.9	880			S101_8.9 P63 BN63B4	509
164	10.3	1.7	8.5	1500			S201_8.5 P63 BN63B4	511
189	8.9	3.4	4.8	1500	S201_4.8 S1 M1SC6	510	S201_4.8 P71 BN71A6	511
190	8.8	1.6	4.7	830	S101_4.7 S1 M1SC6	508	S101_4.7 P71 BN71A6	509
192	8.8	3.0	7.2	1500	S201_7.2 S05 M05B4	510	S201_7.2 P63 BN63B4	511
201	8.4	1.8	6.9	820	S101_6.9 S05 M05B4	508	S101_6.9 P63 BN63B4	509
214	7.9	3.1	13.1	2020			S301_13.1 P63 BN63A2	513
226	7.5	1.7	12.4	1480			S201_12.4 P63 BN63A2	511
227	7.4	2.0	6.1	800	S101_6.1 S05 M05B4	508	S101_6.1 P63 BN63B4	509
228	7.4	1.1	12.3	800	S101_12.3 S05 M05A2	508	S101_12.3 P63 BN63A2	509
234	7.2	1.9	3.8	790	S101_3.8 S1 M1SC6	508	S101_3.8 P71 BN71A6	509
261	6.4	2.0	10.8	1420	S201_10.8 S05 M05A2	510	S201_10.8 P63 BN63A2	511
273	6.2	1.3	10.3	760	S101_10.3 S05 M05A2	508	S101_10.3 P63 BN63A2	509
281	6.0	2.3	3.2	750	S101_3.2 S1 M1SC6	508	S101_3.2 P71 BN71A6	509
294	5.7	2.1	4.7	750	S101_4.7 S05 M05B4	508	S101_4.7 P63 BN63B4	509
317	5.3	1.5	8.9	730	S101_8.9 S05 M05A2	508	S101_8.9 P63 BN63A2	509
331	5.1	2.6	8.5	1320	S201_8.5 S05 M05A2	510	S201_8.5 P63 BN63A2	511
360	4.7	2.6	2.5	700	S101_2.5 S1 M1SC6	508	S101_2.5 P71 BN71A6	509
361	4.7	2.6	3.8	700	S101_3.8 S05 M05B4	508	S101_3.8 P63 BN63B4	509
407	4.1	2.9	6.9	680	S101_6.9 S05 M05A2	508	S101_6.9 P63 BN63A2	509
434	3.9	3.1	3.2	670	S101_3.2 S05 M05B4	508	S101_3.2 P63 BN63B4	509
460	3.7	3.3	6.1	660	S101_6.1 S05 M05A2	508	S101_6.1 P63 BN63A2	509

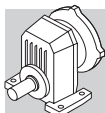


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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
480	3.5	3.4	1.9	640	S101_1.9 S1 M1SC6	508	S101_1.9 P71 BN71A6	509
556	3.0	3.3	2.5	620	S101_2.5 S05 M05B4	508	S101_2.5 P63 BN63B4	509
594	2.8	3.5	4.7	610	S101_4.7 S05 M05A2	508	S101_4.7 P63 BN63A2	509
633	2.7	4.5	1.4	590	S101_1.4 S1 M1SC6	508	S101_1.4 P71 BN71A6	509
731	2.3	4.3	3.8	570	S101_3.8 S05 M05A2	508	S101_3.8 P63 BN63A2	509
741	2.3	4.4	1.9	570	S101_1.9 S05 M05B4	508	S101_1.9 P63 BN63B4	509
878	1.9	5.2	3.2	540	S101_3.2 S05 M05A2	508	S101_3.2 P63 BN63A2	509
978	1.7	5.8	1.4	520	S101_1.4 S05 M05B4	508	S101_1.4 P63 BN63B4	509
1124	1.5	5.3	2.5	500	S101_2.5 S05 M05A2	508	S101_2.5 P63 BN63A2	509
1499	1.1	7.1	1.9	460	S101_1.9 S05 M05A2	508	S101_1.9 P63 BN63A2	509
1977	0.9	9.4	1.4	420	S101_1.4 S05 M05A2	508	S101_1.4 P63 BN63A2	509

0.25 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
69	34.1	1.0	13.1	2400			S301_13.1 P71 BN71B6	513
70	33.5	3.0	12.9	6520	S501_12.9 S1 M1SD6	516	S501_12.9 P71 BN71B6	517
73	32.2	1.8	12.4	3800	S401_12.4 S1 M1SD6	514	S401_12.4 P71 BN71B6	515
84	27.7	2.1	10.7	3800	S401_10.7 S1 M1SD6	514	S401_10.7 P71 BN71B6	515
87	26.8	1.3	10.3	2400	S301_10.3 S1 M1SD6	512	S301_10.3 P71 BN71B6	513
101	23.1	1.5	8.9	2400	S301_8.9 S1 M1SD6	512	S301_8.9 P71 BN71B6	513
104	22.5	3.1	8.6	3800	S401_8.6 S1 M1SD6	514	S401_8.6 P71 BN71B6	515
105	22.3	1.3	13.1	2400			S301_13.1 P71 BN71A4	513
106	22.1	0.9	8.5	1500	S201_8.5 S1 M1SD6	510	S201_8.5 P71 BN71B6	511
111	21.1	2.4	12.4	3800			S401_12.4 P71 BN71A4	515
125	18.8	1.6	7.2	1500	S201_7.2 S1 M1SD6	510	S201_7.2 P71 BN71B6	511
127	18.4	3.1	7.1	2340	S301_7.1 S1 M1SD6	512	S301_7.1 P71 BN71B6	513
128	18.3	0.9	10.8	1500	S201_10.8 S05 M05C4	510	S201_10.8 P71 BN71A4	511
129	18.2	2.8	10.7	3800			S401_10.7 P71 BN71A4	515
130	17.9	0.9	6.9	850	S101_6.9 S1 M1SD6	508	S101_6.9 P71 BN71B6	509
133	17.5	1.7	10.3	2300			S301_10.3 P71 BN71A4	513
147	15.9	1.1	6.1	840	S101_6.1 S1 M1SD6	508	S101_6.1 P71 BN71B6	509
155	15.1	2.0	5.8	1500	S201_5.8 S1 M1SD6	510	S201_5.8 P71 BN71B6	511
155	15.1	2.0	8.9	2200			S301_8.9 P71 BN71A4	513
162	14.5	1.2	8.5	1500	S201_8.5 S05 M05C4	510	S201_8.5 P71 BN71A4	511
189	12.4	2.4	4.8	1500	S201_4.8 S1 M1SD6	510	S201_4.8 P71 BN71B6	511
190	12.3	1.1	4.7	790	S101_4.7 S1 M1SD6	508	S101_4.7 P71 BN71B6	509
190	12.3	2.1	7.2	1500	S201_7.2 S05 M05C4	510	S201_7.2 P71 BN71A4	511
199	11.7	1.3	6.9	780	S101_6.9 S05 M05C4	508	S101_6.9 P71 BN71A4	509
214	10.9	2.2	13.1	2000			S301_13.1 P63 BN63B2	513
225	10.4	1.4	6.1	770	S101_6.1 S05 M05C4	508	S101_6.1 P71 BN71A4	509
226	10.3	1.3	12.4	1450	S201_12.4 S05 M05B2	510	S201_12.4 P63 BN63B2	511
229	10.2	2.9	3.9	1440	S201_3.9 S1 M1SD6	510	S201_3.9 P71 BN71B6	511
234	10.0	1.4	3.8	750	S101_3.8 S1 M1SD6	508	S101_3.8 P71 BN71B6	509
236	9.9	2.6	5.8	1430	S201_5.8 S05 M05C4	510	S201_5.8 P71 BN71A4	511
261	9.0	1.5	10.8	1390	S201_10.8 S05 M05B2	510	S201_10.8 P63 BN63B2	511
273	8.6	2.8	10.3	1860			S301_10.3 P63 BN63B2	513
273	8.6	0.9	10.3	730	S101_10.3 S05 M05B2	508	S101_10.3 P63 BN63B2	509

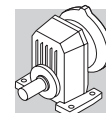


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n2 min-1	M2 Nm	S	i	Rn2 N					
281	8.3	1.7	3.2	720	S101_3.2 S1 M1SD6	508	S101_3.2 P71 BN71B6	509	
288	8.1	3.2	4.8	1350	S201_4.8 S05 M05C4	510	S201_4.8 P71 BN71A4	511	
291	8.0	1.5	4.7	720	S101_4.7 S05 M05C4	508	S101_4.7 P71 BN71A4	509	
316	7.4	3.2	8.9	1770		S301_8.9 P63 BN63B2	513		
317	7.4	1.1	8.9	710		S101_8.9 S05 M05B2	508	S101_8.9 P63 BN63B2	509
331	7.1	1.8	8.5	1300		S201_8.5 S05 M05B2	510	S201_8.5 P63 BN63B2	511
358	6.5	1.8	3.8	680	S101_3.8 S05 M05C4	508	S101_3.8 P71 BN71A4	509	
360	6.5	1.8	2.5	680	S101_2.5 S1 M1SD6	508	S101_2.5 P71 BN71B6	509	
389	6.0	3.5	7.2	1240	S201_7.2 S05 M05B2	510	S201_7.2 P63 BN63B2	511	
407	5.7	2.1	6.9	660	S101_6.9 S05 M05B2	508	S101_6.9 P63 BN63B2	509	
430	5.4	2.2	3.2	650	S101_3.2 S05 M05C4	508	S101_3.2 P71 BN71A4	509	
460	5.1	2.4	6.1	640	S101_6.1 S05 M05B2	508	S101_6.1 P63 BN63B2	509	
480	4.9	2.5	1.9	620	S101_1.9 S1 M1SD6	508	S101_1.9 P71 BN71B6	509	
550	4.3	2.4	2.5	610	S101_2.5 S05 M05C4	508	S101_2.5 P71 BN71A4	509	
594	3.9	2.5	4.7	600	S101_4.7 S05 M05B2	508	S101_4.7 P63 BN63B2	509	
633	3.7	3.2	1.4	580	S101_1.4 S1 M1SD6	508	S101_1.4 P71 BN71B6	509	
731	3.2	3.1	3.8	560	S101_3.8 S05 M05B2	508	S101_3.8 P63 BN63B2	509	
733	3.2	3.1	1.9	560	S101_1.9 S05 M05C4	508	S101_1.9 P71 BN71A4	509	
878	2.7	3.8	3.2	530	S101_3.2 S05 M05B2	508	S101_3.2 P63 BN63B2	509	
968	2.4	4.1	1.4	510	S101_1.4 S05 M05C4	508	S101_1.4 P71 BN71A4	509	
1124	2.1	3.8	2.5	500	S101_2.5 S05 M05B2	508	S101_2.5 P63 BN63B2	509	
1499	1.6	5.1	1.9	450	S101_1.9 S05 M05B2	508	S101_1.9 P63 BN63B2	509	
1977	1.2	6.8	1.4	420	S101_1.4 S05 M05B2	508	S101_1.4 P63 BN63B2	509	

0.37 kW

n2 min-1	M2 Nm	S	i	Rn2 N				
71	49.0	2.0	12.9	6420	S501_12.9 S1 M1LA6	516	S501_12.9 P80 BN80A6	517
73	47.2	1.2	12.4	3800	S401_12.4 S1 M1LA6	514	S401_12.4 P80 BN80A6	515
85	40.6	1.4	10.7	3800	S401_10.7 S1 M1LA6	514	S401_10.7 P80 BN80A6	515
87	39.8	2.9	10.5	6020	S501_10.5 S1 M1LA6	516	S501_10.5 P80 BN80A6	517
102	33.8	1.0	8.9	2400	S301_8.9 S1 M1LA6	512	S301_8.9 P80 BN80A6	513
104	33.2	0.9	13.1	2390			S301_13.1 P71 BN71B4	513
105	32.9	2.1	8.6	3800	S401_8.6 S1 M1LA6	514	S401_8.6 P80 BN80A6	515
106	32.6	3.1	12.9	5650	S501_12.9 S1 M1SD4	516	S501_12.9 P71 BN71B4	517
110	31.3	1.6	12.4	3800	S401_12.4 S1 M1SD4	514	S401_12.4 P71 BN71B4	515
126	27.5	1.1	7.2	1500	S201_7.2 S1 M1LA6	510	S201_7.2 P80 BN80A6	511
127	27.2	3.3	7.2	3800	S401_7.2 S1 M1LA6	514	S401_7.2 P80 BN80A6	515
128	27.0	2.1	7.1	2260	S301_7.1 S1 M1LA6	512	S301_7.1 P80 BN80A6	513
128	27.0	1.9	10.7	3800	S401_10.7 S1 M1SD4	514	S401_10.7 P71 BN71B4	515
133	26.0	1.2	10.3	2240	S301_10.3 S1 M1SD4	512	S301_10.3 P71 BN71B4	513
154	22.5	1.3	8.9	2150	S301_8.9 S1 M1SD4	512	S301_8.9 P71 BN71B4	513
156	22.2	2.6	5.8	2140	S301_5.8 S1 M1LA6	512	S301_5.8 P80 BN80A6	513
156	22.1	1.4	5.8	1500	S201_5.8 S1 M1LA6	510	S201_5.8 P80 BN80A6	511
159	21.8	2.7	8.6	3610	S401_8.6 S1 M1SD4	514	S401_8.6 P71 BN71B4	515
184	18.8	3.1	4.9	2040	S301_4.9 S1 M1LA6	512	S301_4.9 P80 BN80A6	513
190	18.3	1.4	7.2	1460	S201_7.2 S1 M1SD4	510	S201_7.2 P71 BN71B4	511
191	18.1	1.7	4.8	1460	S201_4.8 S1 M1LA6	510	S201_4.8 P80 BN80A6	511

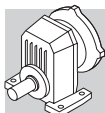


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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
193	17.9	2.8	7.1	2020	S301_7.1 S1 M1SD4	512	S301_7.1 P71 BN71B4	513
214	16.2	1.5	13.1	1960			S301_13.1 P71 BN71A2	513
224	15.4	1.0	6.1	710	S101_6.1 S1 M1SD4	508	S101_6.1 P71 BN71B4	509
227	15.3	2.6	12.4	3230			S401_12.4 P71 BN71A2	515
231	15.0	2.0	3.9	1380	S201_3.9 S1 M1LA6	510	S201_3.9 P80 BN80A6	511
234	14.8	3.4	5.8	1900	S301_5.8 S1 M1SD4	512	S301_5.8 P71 BN71B4	513
235	14.7	1.8	5.8	1390	S201_5.8 S1 M1SD4	510	S201_5.8 P71 BN71B4	511
237	14.6	1.0	3.8	690	S101_3.8 S1 M1LA6	508	S101_3.8 P80 BN80A6	509
261	13.2	1.0	10.8	1350	S201_10.8 S05 M05C2	510	S201_10.8 P71 BN71A2	511
263	13.1	3.0	10.7	3080			S401_10.7 P71 BN71A2	515
273	12.7	1.9	10.3	1820			S301_10.3 P71 BN71A2	513
284	12.2	1.1	3.2	670	S101_3.2 S1 M1LA6	508	S101_3.2 P80 BN80A6	509
287	12.1	2.2	4.8	1310	S201_4.8 S1 M1SD4	510	S201_4.8 P71 BN71B4	511
290	11.9	1.0	4.7	670	S101_4.7 S1 M1SD4	508	S101_4.7 P71 BN71B4	509
293	11.8	2.5	3.1	1300	S201_3.1 S1 M1LA6	510	S201_3.1 P80 BN80A6	511
316	11.0	2.2	8.9	1740			S301_8.9 P71 BN71A2	513
331	10.5	1.2	8.5	1270	S201_8.5 S05 M05C2	510	S201_8.5 P71 BN71A2	511
348	9.9	2.6	3.9	1240	S201_3.9 S1 M1SD4	510	S201_3.9 P71 BN71B4	511
356	9.7	1.2	3.8	640	S101_3.8 S1 M1SD4	508	S101_3.8 P71 BN71B4	509
364	9.5	1.3	2.5	630	S101_2.5 S1 M1LA6	508	S101_2.5 P80 BN80A6	509
373	9.3	3.2	2.4	1210	S201_2.4 S1 M1LA6	510	S201_2.4 P80 BN80A6	511
389	8.9	2.4	7.2	1210	S201_7.2 S05 M05C2	510	S201_7.2 P71 BN71A2	511
407	8.5	1.4	6.9	630	S101_6.9 S05 M05C2	508	S101_6.9 P71 BN71A2	509
428	8.1	1.5	3.2	620	S101_3.2 S1 M1SD4	508	S101_3.2 P71 BN71B4	509
440	7.9	3.3	3.1	1160	S201_3.1 S1 M1SD4	510	S201_3.1 P71 BN71B4	511
460	7.5	1.6	6.1	610	S101_6.1 S05 M05C2	508	S101_6.1 P71 BN71A2	509
480	7.2	2.8	1.9	1130	S201_1.9 S1 M1LA6	510	S201_1.9 P80 BN80A6	511
483	7.2	2.9	5.8	1130	S201_5.8 S05 M05C2	510	S201_5.8 P71 BN71A2	511
485	7.1	1.7	1.9	590	S101_1.9 S1 M1LA6	508	S101_1.9 P80 BN80A6	509
548	6.3	1.6	2.5	580	S101_2.5 S1 M1SD4	508	S101_2.5 P71 BN71B4	509
594	5.8	1.7	4.7	570	S101_4.7 S05 M05C2	508	S101_4.7 P71 BN71A2	509
640	5.4	2.2	1.4	550	S101_1.4 S1 M1LA6	508	S101_1.4 P80 BN80A6	509
731	4.7	2.1	3.8	540	S101_3.8 S05 M05C2	508	S101_3.8 P71 BN71A2	509
731	4.7	2.1	1.9	540	S101_1.9 S1 M1SD4	508	S101_1.9 P71 BN71B4	509
878	3.9	2.5	3.2	520	S101_3.2 S05 M05C2	508	S101_3.2 P71 BN71A2	509
964	3.6	2.8	1.4	500	S101_1.4 S1 M1SD4	508	S101_1.4 P71 BN71B4	509
1124	3.1	2.6	2.5	480	S101_2.5 S05 M05C2	508	S101_2.5 P71 BN71A2	509
1499	2.3	3.5	1.9	440	S101_1.9 S05 M05C2	508	S101_1.9 P71 BN71A2	509
1977	1.8	4.6	1.4	410	S101_1.4 S05 M05C2	508	S101_1.4 P71 BN71A2	509

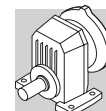
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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
71	72.1	1.4	12.9	6290	S501_12.9 S2 M2SA6	516	S501_12.9 P80 BN80B6	517
86	59.7	1.0	10.7	3800	S401_10.7 S2 M2SA6	514	S401_10.7 P80 BN80B6	515
88	58.5	2.0	10.5	5910	S501_10.5 S2 M2SA6	516	S501_10.5 P80 BN80B6	517
105	49.1	2.5	8.8	5600	S501_8.8 S2 M2SA6	516	S501_8.8 P80 BN80B6	517
107	48.3	1.4	8.6	3800	S401_8.6 S2 M2SA6	514	S401_8.6 P80 BN80B6	515



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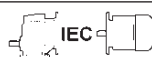
n2 min ⁻¹	M2 Nm	S	i	Rn2 N				
107	48.1	2.1	12.9	5560	S501_12.9 S1 M1LA4	516	S501_12.9 P80 BN80A4	517
111	46.3	1.1	12.4	3800	S401_12.4 S1 M1LA4	514	S401_12.4 P80 BN80A4	515
124	41.4	3.4	7.4	5310	S501_7.4 S2 M2SA6	516	S501_7.4 P80 BN80B6	517
129	40.0	2.2	7.2	3780	S401_7.2 S2 M2SA6	514	S401_7.2 P80 BN80B6	515
129	39.8	1.3	10.7	3770	S401_10.7 S1 M1LA4	514	S401_10.7 P80 BN80A4	515
130	39.7	1.5	7.1	2150	S301_7.1 S2 M2SA6	512	S301_7.1 P80 BN80B6	513
132	39.0	2.8	10.5	5220	S501_10.5 S1 M1LA4	516	S501_10.5 P80 BN80A4	517
152	33.9	3.1	6.1	3600	S401_6.1 S2 M2SA6	514	S401_6.1 P80 BN80B6	515
155	33.2	0.9	8.9	2060	S301_8.9 S1 M1LA4	512	S301_8.9 P80 BN80A4	513
157	32.7	1.8	5.8	2050	S301_5.8 S2 M2SA6	512	S301_5.8 P80 BN80B6	513
157	32.7	3.4	8.8	4940	S501_8.8 S1 M1LA4	516	S501_8.8 P80 BN80A4	517
158	32.6	0.9	5.8	1420	S201_5.8 S2 M2SA6	510	S201_5.8 P80 BN80B6	511
160	32.2	1.9	8.6	3540	S401_8.6 S1 M1LA4	514	S401_8.6 P80 BN80A4	515
186	27.6	2.1	4.9	1960	S301_4.9 S2 M2SA6	512	S301_4.9 P80 BN80B6	513
191	26.9	1.0	7.2	1370	S201_7.2 S1 M1LA4	510	S201_7.2 P80 BN80A4	511
193	26.7	1.1	4.8	1370	S201_4.8 S2 M2SA6	510	S201_4.8 P80 BN80B6	511
193	26.7	3.0	7.2	3350	S401_7.2 S1 M1LA4	514	S401_7.2 P80 BN80A4	515
195	26.4	1.9	7.1	1940	S301_7.1 S1 M1LA4	512	S301_7.1 P80 BN80A4	513
214	24.0	1.0	13.1	1900			S301_13.1 P71 BN71B2	513
218	23.6	3.4	12.9	4460	S501_12.9 S1 M1SD2	516	S501_12.9 P71 BN71B2	517
227	22.7	1.8	12.4	3190	S401_12.4 S1 M1SD2	514	S401_12.4 P71 BN71B2	515
233	22.1	2.6	3.9	1850	S301_3.9 S2 M2SA6	512	S301_3.9 P80 BN80B6	513
234	22.0	1.4	3.9	1300	S201_3.9 S2 M2SA6	510	S201_3.9 P80 BN80B6	511
236	21.8	2.3	5.8	1840	S301_5.8 S1 M1LA4	512	S301_5.8 P80 BN80A4	513
237	21.7	1.2	5.8	1310	S201_5.8 S1 M1LA4	510	S201_5.8 P80 BN80A4	511
263	19.5	2.0	10.7	3040	S401_10.7 S1 M1SD2	514	S401_10.7 P71 BN71B2	515
273	18.9	1.3	10.3	1780	S301_10.3 S1 M1SD2	512	S301_10.3 P71 BN71B2	513
280	18.4	2.7	4.9	1760	S301_4.9 S1 M1LA4	512	S301_4.9 P80 BN80A4	513
289	17.8	1.5	4.8	1250	S201_4.8 S1 M1LA4	510	S201_4.8 P80 BN80A4	511
296	17.4	1.7	3.1	1230	S201_3.1 S2 M2SA6	510	S201_3.1 P80 BN80B6	511
300	17.1	3.4	3.1	1720	S301_3.1 S2 M2SA6	512	S301_3.1 P80 BN80B6	513
316	16.3	1.5	8.9	1700	S301_8.9 S1 M1SD2	512	S301_8.9 P71 BN71B2	513
325	15.8	3.0	8.6	2850	S401_8.6 S1 M1SD2	514	S401_8.6 P71 BN71B2	515
350	14.7	3.4	3.9	1650	S301_3.9 S1 M1LA4	512	S301_3.9 P80 BN80A4	513
351	14.7	1.8	3.9	1190	S201_3.9 S1 M1LA4	510	S201_3.9 P80 BN80A4	511
377	13.6	2.2	2.4	1160	S201_2.4 S2 M2SA6	510	S201_2.4 P80 BN80B6	511
389	13.2	1.6	7.2	1160	S201_7.2 S1 M1SD2	510	S201_7.2 P71 BN71B2	511
396	13.0	3.1	7.1	1600	S301_7.1 S1 M1SD2	512	S301_7.1 P71 BN71B2	513
407	12.6	0.9	6.9	570	S101_6.9 S1 M1SD2	508	S101_6.9 P71 BN71B2	509
431	11.9	1.0	3.2	560	S101_3.2 S1 M1LA4	508	S101_3.2 P80 BN80A4	509
444	11.6	2.2	3.1	1120	S201_3.1 S1 M1LA4	510	S201_3.1 P80 BN80A4	511
460	11.2	1.1	6.1	570	S101_6.1 S1 M1SD2	508	S101_6.1 P71 BN71B2	509
483	10.7	2.0	5.8	1100	S201_5.8 S1 M1SD2	510	S201_5.8 P71 BN71B2	511
486	10.6	1.9	1.9	1080	S201_1.9 S2 M2SA6	510	S201_1.9 P80 BN80B6	511
491	10.5	1.1	1.9	540	S101_1.9 S2 M2SA6	508	S101_1.9 P80 BN80B6	509
504	10.2	3.4	1.8	1470	S301_1.8 S2 M2SA6	512	S301_1.8 P80 BN80B6	513
552	9.3	1.1	2.5	540	S101_2.5 S1 M1LA4	508	S101_2.5 P80 BN80A4	509
566	9.1	2.9	2.4	1050	S201_2.4 S1 M1LA4	510	S201_2.4 P80 BN80A4	511
589	8.7	2.4	4.8	1040	S201_4.8 S1 M1SD2	510	S201_4.8 P71 BN71B2	511
594	8.7	1.2	4.7	540	S101_4.7 S1 M1SD2	508	S101_4.7 P71 BN71B2	509
647	8.0	1.5	1.4	510	S101_1.4 S2 M2SA6	508	S101_1.4 P80 BN80B6	509

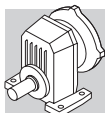


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n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
661	7.8	2.6	1.4	990	S201_1.4 S2 M2SA6	510	S201_1.4 P80 BN80B6	511
714	7.2	2.9	3.9	980	S201_3.9 S1 M1SD2	510	S201_3.9 P71 BN71B2	511
728	7.1	2.4	1.9	970	S201_1.9 S1 M1LA4	510	S201_1.9 P80 BN80A4	511
731	7.0	1.4	3.8	510	S101_3.8 S1 M1SD2	508	S101_3.8 P71 BN71B2	509
736	7.0	1.4	1.9	500	S101_1.9 S1 M1LA4	508	S101_1.9 P80 BN80A4	509
878	5.9	1.7	3.2	490	S101_3.2 S1 M1SD2	508	S101_3.2 P71 BN71B2	509
971	5.3	1.9	1.4	470	S101_1.4 S1 M1LA4	508	S101_1.4 P80 BN80A4	509
992	5.2	3.3	1.4	890			S201_1.4 P80 BN80A4	511
1124	4.6	1.7	2.5	460	S101_2.5 S1 M1SD2	508	S101_2.5 P71 BN71B2	509
1499	3.4	2.3	1.9	430	S101_1.9 S1 M1SD2	508	S101_1.9 P71 BN71B2	509
1977	2.6	3.1	1.4	390	S101_1.4 S1 M1SD2	508	S101_1.4 P71 BN71B2	509

0.75 kW

n2 min-1	M2 Nm	S	i	Rn2 N				
71	98.3	1.0	12.9	6170	S501_12.9 S2 M2SB6	516	S501_12.9 P90 BN90S6	517
88	79.8	1.4	10.5	5810	S501_10.5 S2 M2SB6	516	S501_10.5 P90 BN90S6	517
105	66.9	1.9	8.8	5520	S501_8.8 S2 M2SB6	516	S501_8.8 P90 BN90S6	517
107	65.9	1.1	8.6	3800	S401_8.6 S2 M2SB6	514	S401_8.6 P90 BN90S6	515
109	64.6	1.5	12.9	5460	S501_12.9 S2 M2SA4	516	S501_12.9 P80 BN80B4	517
124	56.5	2.5	7.4	5240	S501_7.4 S2 M2SB6	516	S501_7.4 P90 BN90S6	517
129	54.6	1.6	7.2	3700	S401_7.2 S2 M2SB6	514	S401_7.2 P90 BN90S6	515
130	54.1	1.1	7.1	2040	S301_7.1 S2 M2SB6	512	S301_7.1 P90 BN90S6	513
131	53.5	0.9	10.7	3670	S401_10.7 S2 M2SA4	514	S401_10.7 P80 BN80B4	515
134	52.4	2.1	10.5	5130	S501_10.5 S2 M2SA4	516	S501_10.5 P80 BN80B4	517
152	46.3	2.3	6.1	3530	S401_6.1 S2 M2SB6	514	S401_6.1 P90 BN90S6	515
152	46.2	3.2	6.1	4940	S501_6.1 S2 M2SB6	516	S501_6.1 P90 BN90S6	517
157	44.6	1.3	5.8	1960	S301_5.8 S2 M2SB6	512	S301_5.8 P90 BN90S6	513
160	44.0	2.5	8.8	4870	S501_8.8 S2 M2SA4	516	S501_8.8 P80 BN80B4	517
162	43.3	1.4	8.6	3460	S401_8.6 S2 M2SA4	514	S401_8.6 P80 BN80B4	515
186	37.6	1.5	4.9	1880	S301_4.9 S2 M2SB6	512	S301_4.9 P90 BN90S6	513
190	36.9	2.8	4.8	3300	S401_4.8 S2 M2SB6	514	S401_4.8 P90 BN90S6	515
196	35.9	2.2	7.2	3280	S401_7.2 S2 M2SA4	514	S401_7.2 P80 BN80B4	515
197	35.6	1.4	7.1	1860	S301_7.1 S2 M2SA4	512	S301_7.1 P80 BN80B4	513
217	32.3	2.5	12.9	4420	S501_12.9 S1 M1LA2	516	S501_12.9 P80 BN80A2	517
226	31.1	1.3	12.4	3150	S401_12.4 S1 M1LA2	514	S401_12.4 P80 BN80A2	515
231	30.4	3.0	6.1	3120	S401_6.1 S2 M2SA4	514	S401_6.1 P80 BN80B4	515
233	30.1	1.9	3.9	1780	S301_3.9 S2 M2SB6	512	S301_3.9 P90 BN90S6	513
234	30.0	1.0	3.9	1220	S201_3.9 S2 M2SB6	510	S201_3.9 P90 BN90S6	511
239	29.3	1.7	5.8	1780	S301_5.8 S2 M2SA4	512	S301_5.8 P80 BN80B4	513
263	26.7	1.5	10.7	3000	S401_10.7 S1 M1LA2	514	S401_10.7 P80 BN80A2	515
268	26.2	3.2	10.5	4140	S501_10.5 S1 M1LA2	516	S501_10.5 P80 BN80A2	517
272	25.8	0.9	10.3	1730	S301_10.3 S1 M1LA2	512	S301_10.3 P80 BN80A2	513
284	24.7	2.0	4.9	1700	S301_4.9 S2 M2SA4	512	S301_4.9 P80 BN80B4	513
294	23.9	1.1	4.8	1180	S201_4.8 S2 M2SA4	510	S201_4.8 P80 BN80B4	511
296	23.7	1.3	3.1	1160	S201_3.1 S2 M2SB6	510	S201_3.1 P90 BN90S6	511
300	23.4	2.5	3.1	1670	S301_3.1 S2 M2SB6	512	S301_3.1 P90 BN90S6	513
315	22.3	1.1	8.9	1660	S301_8.9 S1 M1LA2	512	S301_8.9 P80 BN80A2	513

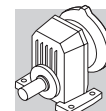


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n2 min-1	M2 Nm	S	i	Rn2 N				
324	21.7	2.2	8.6	2820	S401_8.6 S1 M1LA2	514	S401_8.6 P80 BN80A2	515
355	19.8	2.5	3.9	1600	S301_3.9 S2 M2SA4	512	S301_3.9 P80 BN80B4	513
356	19.7	1.3	3.9	1130	S201_3.9 S2 M2SA4	510	S201_3.9 P80 BN80B4	511
377	18.6	1.6	2.4	1110	S201_2.4 S2 M2SB6	510	S201_2.4 P90 BN90S6	511
380	18.5	3.1	2.4	1560	S301_2.4 S2 M2SB6	512	S301_2.4 P90 BN90S6	513
388	18.1	1.2	7.2	1120	S201_7.2 S1 M1LA2	510	S201_7.2 P80 BN80A2	511
395	17.8	2.3	7.1	1560	S301_7.1 S1 M1LA2	512	S301_7.1 P80 BN80A2	513
450	15.6	1.7	3.1	1070	S201_3.1 S2 M2SA4	510	S201_3.1 P80 BN80B4	511
457	15.4	3.3	3.1	1490	S301_3.1 S2 M2SA4	512	S301_3.1 P80 BN80B4	513
479	14.7	2.7	5.8	1480	S301_5.8 S1 M1LA2	512	S301_5.8 P80 BN80A2	513
481	14.6	1.4	5.8	1060	S201_5.8 S1 M1LA2	510	S201_5.8 P80 BN80A2	511
486	14.5	1.4	1.9	1040	S201_1.9 S2 M2SB6	510	S201_1.9 P90 BN90S6	511
504	13.9	2.5	1.8	1440	S301_1.8 S2 M2SB6	512	S301_1.8 P90 BN90S6	513
568	12.4	3.2	4.9	1410	S301_4.9 S1 M1LA2	512	S301_4.9 P80 BN80A2	513
574	12.2	2.1	2.4	1010	S201_2.4 S2 M2SA4	510	S201_2.4 P80 BN80B4	511
587	12.0	1.8	4.8	1010	S201_4.8 S1 M1LA2	510	S201_4.8 P80 BN80A2	511
647	10.8	1.1	1.4	460	S101_1.4 S2 M2SB6	508	S101_1.4 P90 BN90S6	509
654	10.7	3.3	1.4	1330	S301_1.4 S2 M2SB6	512	S301_1.4 P90 BN90S6	513
661	10.6	1.9	1.4	960	S201_1.4 S2 M2SB6	510	S201_1.4 P90 BN90S6	511
712	9.9	2.1	3.9	960	S201_3.9 S1 M1LA2	510	S201_3.9 P80 BN80A2	511
728	9.6	1.0	3.8	480	S101_3.8 S1 M1LA2	508	S101_3.8 P80 BN80A2	509
739	9.5	1.8	1.9	940	S201_1.9 S2 M2SA4	510	S201_1.9 P80 BN80B4	511
747	9.4	1.1	1.9	460	S101_1.9 S2 M2SA4	508	S101_1.9 P80 BN80B4	509
767	9.2	3.3	1.8	1280	S301_1.8 S2 M2SA4	512	S301_1.8 P80 BN80B4	513
875	8.0	1.2	3.2	460	S101_3.2 S1 M1LA2	508	S101_3.2 P80 BN80A2	509
900	7.8	2.7	3.1	900	S201_3.1 S1 M1LA2	510	S201_3.1 P80 BN80A2	511
985	7.1	1.4	1.4	440	S101_1.4 S2 M2SA4	508	S101_1.4 P80 BN80B4	509
1006	7.0	2.4	1.4	860	S201_1.4 S2 M2SA4	510	S201_1.4 P80 BN80B4	511
1120	6.3	1.3	2.5	440	S101_2.5 S1 M1LA2	508	S101_2.5 P80 BN80A2	509
1149	6.1	3.4	2.4	840	S201_2.4 S1 M1LA2	510	S201_2.4 P80 BN80A2	511
1478	4.7	2.7	1.9	780	S201_1.9 S1 M1LA2	510	S201_1.9 P80 BN80A2	511
1493	4.7	1.7	1.9	410	S101_1.9 S1 M1LA2	508	S101_1.9 P80 BN80A2	509
1970	3.6	2.2	1.4	380	S101_1.4 S1 M1LA2	508	S101_1.4 P80 BN80A2	509

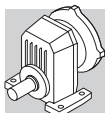
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n2 min-1	M2 Nm	S	i	Rn2 N				
88	117.0	1.0	10.5	5650	S501_10.5 S3 M3SA6	516	S501_10.5 P90 BN90L6	517
105	98.1	1.3	8.8	5380	S501_8.8 S3 M3SA6	516	S501_8.8 P90 BN90L6	517
109	94.8	1.1	12.9	5320	S501_12.9 S2 M2SB4	516	S501_12.9 P90 BN90S4	517
124	82.8	1.7	7.4	5120	S501_7.4 S3 M3SA6	516	S501_7.4 P90 BN90L6	517
129	80.1	1.1	7.2	3550	S401_7.2 S3 M3SA6	514	S401_7.2 P90 BN90L6	515
134	76.9	1.4	10.5	5020	S501_10.5 S2 M2SB4	516	S501_10.5 P90 BN90S4	517
152	67.9	1.5	6.1	3400	S401_6.1 S3 M3SA6	514	S401_6.1 P90 BN90L6	515
152	67.8	2.2	6.1	4840	S501_6.1 S3 M3SA6	516	S501_6.1 P90 BN90L6	517
160	64.5	1.7	8.8	4770	S501_8.8 S2 M2SB4	516	S501_8.8 P90 BN90S4	517
162	63.5	0.9	8.6	3350	S401_8.6 S2 M2SB4	514	S401_8.6 P90 BN90S4	515
186	55.2	1.1	4.9	1740	S301_4.9 S3 M3SA6	512	S301_4.9 P90 BN90L6	513



1.1 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
189	54.4	2.4	7.4	4530	S501_7.4 S2 M2SB4	516	S501_7.4 P90 BN90S4	517
190	54.1	1.9	4.8	3200	S401_4.8 S3 M3SA6	514	S401_4.8 P90 BN90L6	515
194	53.2	3.3	4.8	4500	S501_4.8 S3 M3SA6	516	S501_4.8 P90 BN90L6	517
196	52.6	1.5	7.2	3180	S401_7.2 S2 M2SB4	514	S401_7.2 P90 BN90S4	515
197	52.1	1.0	7.1	1730	S301_7.1 S2 M2SB4	512	S301_7.1 P90 BN90S4	513
217	47.4	1.7	12.9	4350	S501_12.9 S2 M2SA2	516	S501_12.9 P80 BN80B2	517
231	44.6	2.0	6.1	3040	S401_6.1 S2 M2SB4	514	S401_6.1 P90 BN90S4	515
231	44.5	2.9	6.1	4270	S501_6.1 S2 M2SB4	516	S501_6.1 P90 BN90S4	517
233	44.1	1.3	3.9	1670	S301_3.9 S3 M3SA6	512	S301_3.9 P90 BN90L6	513
239	43.0	1.2	5.8	1670	S301_5.8 S2 M2SB4	512	S301_5.8 P90 BN90S4	513
241	42.7	2.5	3.8	2990	S401_3.8 S3 M3SA6	514	S401_3.8 P90 BN90L6	515
263	39.2	1.0	10.7	2930	S401_10.7 S2 M2SA2	514	S401_10.7 P80 BN80B2	515
268	38.4	2.2	10.5	4090	S501_10.5 S2 M2SA2	516	S501_10.5 P80 BN80B2	517
284	36.3	1.4	4.9	1610	S301_4.9 S2 M2SB4	512	S301_4.9 P90 BN90S4	513
290	35.5	2.5	4.8	2850	S401_4.8 S2 M2SB4	514	S401_4.8 P90 BN90S4	515
300	34.3	1.7	3.1	1580	S301_3.1 S3 M3SA6	512	S301_3.1 P90 BN90L6	513
301	34.2	3.1	3.1	2810	S401_3.1 S3 M3SA6	514	S401_3.1 P90 BN90L6	515
319	32.2	2.6	8.8	3870	S501_8.8 S2 M2SA2	516	S501_8.8 P80 BN80B2	517
324	31.8	1.5	8.6	2760	S401_8.6 S2 M2SA2	514	S401_8.6 P80 BN80B2	515
355	29.0	1.7	3.9	1530	S301_3.9 S2 M2SB4	512	S301_3.9 P90 BN90S4	513
367	28.0	3.2	3.8	2650	S401_3.8 S2 M2SB4	514	S401_3.8 P90 BN90S4	515
377	27.3	1.1	2.4	1010	S201_2.4 S3 M3SA6	510	S201_2.4 P90 BN90L6	511
380	27.1	2.1	2.4	1490	S301_2.4 S3 M3SA6	512	S301_2.4 P90 BN90L6	513
391	26.3	2.4	7.2	2610	S401_7.2 S2 M2SA2	514	S401_7.2 P80 BN80B2	515
395	26.1	1.5	7.1	1500	S301_7.1 S2 M2SA2	512	S301_7.1 P80 BN80B2	513
450	22.9	1.1	3.1	990	S201_3.1 S2 M2SB4	510	S201_3.1 P90 BN90S4	511
457	22.5	2.2	3.1	1430	S301_3.1 S2 M2SB4	512	S301_3.1 P90 BN90S4	513
462	22.3	3.1	6.1	2490	S401_6.1 S2 M2SA2	514	S401_6.1 P80 BN80B2	515
479	21.5	1.9	5.8	1420	S301_5.8 S2 M2SA2	512	S301_5.8 P80 BN80B2	513
481	21.4	1.0	5.8	990	S201_5.8 S2 M2SA2	510	S201_5.8 P80 BN80B2	511
486	21.2	0.9	1.9	960	S201_1.9 S3 M3SA6	510	S201_1.9 P90 BN90L6	511
497	20.7	3.4	1.9	2420	S401_1.9 S3 M3SA6	514	S401_1.9 P90 BN90L6	515
504	20.4	1.7	1.8	1380	S301_1.8 S3 M3SA6	512	S301_1.8 P90 BN90L6	513
568	18.1	2.2	4.9	1360	S301_4.9 S2 M2SA2	512	S301_4.9 P80 BN80B2	513
574	17.9	1.5	2.4	940	S201_2.4 S2 M2SB4	510	S201_2.4 P90 BN90S4	511
578	17.8	2.8	2.4	1340	S301_2.4 S2 M2SB4	512	S301_2.4 P90 BN90S4	513
587	17.5	1.2	4.8	950	S201_4.8 S2 M2SA2	510	S201_4.8 P80 BN80B2	511
654	15.7	2.2	1.4	1290	S301_1.4 S3 M3SA6	512	S301_1.4 P90 BN90L6	513
661	15.6	1.3	1.4	900	S201_1.4 S3 M3SA6	510	S201_1.4 P90 BN90L6	511
710	14.5	2.8	3.9	1280	S301_3.9 S2 M2SA2	512	S301_3.9 P80 BN80B2	513
712	14.5	1.5	3.9	910	S201_3.9 S2 M2SA2	510	S201_3.9 P80 BN80B2	511
739	13.9	1.2	1.9	890	S201_1.9 S2 M2SB4	510	S201_1.9 P90 BN90S4	511
767	13.4	2.2	1.8	1240	S301_1.8 S2 M2SB4	512	S301_1.8 P90 BN90S4	513
900	11.4	1.8	3.1	860	S201_3.1 S2 M2SA2	510	S201_3.1 P80 BN80B2	511
985	10.4	1.0	1.4	390	S101_1.4 S2 M2SB4	508	S101_1.4 P90 BN90S4	509
995	10.3	2.9	1.4	1150	S301_1.4 S2 M2SB4	512	S301_1.4 P90 BN90S4	513
1006	10.2	1.7	1.4	820	S201_1.4 S2 M2SB4	510	S201_1.4 P90 BN90S4	511
1149	9.0	2.3	2.4	810	S201_2.4 S2 M2SA2	510	S201_2.4 P80 BN80B2	511
1478	7.0	1.9	1.9	750	S201_1.9 S2 M2SA2	510	S201_1.9 P80 BN80B2	511
1493	6.9	1.2	1.9	380	S101_1.9 S2 M2SA2	508	S101_1.9 P80 BN80B2	509
1970	5.2	1.5	1.4	350	S101_1.4 S2 M2SA2	508	S101_1.4 P80 BN80B2	509

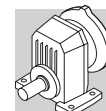


1.1 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
2013	5.1	2.5	1.4	690	S201 1.4 S2 M2SA2	510	S201 1.4 P80 BN80B2	511

1.5 kW

n2 min ⁻¹	M2 Nm	S	i	Rn2 N				
88	117.0	1.0	10.5	5650	S501_10.5 S3 M3SA6	516	S501_10.5 P90 BN90L6	517
105	98.1	1.3	8.8	5380	S501_8.8 S3 M3SA6	516	S501_8.8 P90 BN90L6	517
109	94.8	1.1	12.9	5320	S501_12.9 S3 M3SA4	516	S501_12.9 P90 BN90S4	517
124	82.8	1.7	7.4	5120	S501_7.4 S3 M3SA6	516	S501_7.4 P90 BN90L6	517
129	80.1	1.1	7.2	3550	S401_7.2 S3 M3SA6	514	S401_7.2 P90 BN90L6	515
134	76.9	1.4	10.5	5020	S501_10.5 S3 M3SA4	516	S501_10.5 P90 BN90S4	517
152	67.9	1.5	6.1	3400	S401_6.1 S3 M3SA6	514	S401_6.1 P90 BN90L6	515
152	67.8	2.2	6.1	4840	S501_6.1 S3 M3SA6	516	S501_6.1 P90 BN90L6	517
160	64.5	1.7	8.8	4770	S501_8.8 S3 M3SA4	516	S501_8.8 P90 BN90S4	517
162	63.5	0.9	8.6	3350	S401_8.6 S3 M3SA4	514	S401_8.6 P90 BN90S4	515
186	55.2	1.1	4.9	1740	S301_4.9 S3 M3SA6	512	S301_4.9 P90 BN90L6	513
189	54.4	2.4	7.4	4530	S501_7.4 S3 M3SA4	516	S501_7.4 P90 BN90S4	517
190	54.1	1.9	4.8	3200	S401_4.8 S3 M3SA6	514	S401_4.8 P90 BN90L6	515
194	53.2	3.3	4.8	4500	S501_4.8 S3 M3SA6	516	S501_4.8 P90 BN90L6	517
196	52.6	1.5	7.2	3180	S401_7.2 S3 M3SA4	514	S401_7.2 P90 BN90S4	515
197	52.1	1.0	7.1	1730	S301_7.1 S3 M3SA4	512	S301_7.1 P90 BN90S4	513
217	47.4	1.7	12.9	4350	S501_12.9 S2 M2SA2	516	S501_12.9 P80 BN80B2	517
231	44.6	2.0	6.1	3040	S401_6.1 S3 M3SA4	514	S401_6.1 P90 BN90S4	515
231	44.5	2.9	6.1	4270	S501_6.1 S3 M3SA4	516	S501_6.1 P90 BN90S4	517
233	44.1	1.3	3.9	1670	S301_3.9 S3 M3SA6	512	S301_3.9 P90 BN90L6	513
239	43.0	1.2	5.8	1670	S301_5.8 S3 M3SA4	512	S301_5.8 P90 BN90S4	513
241	42.7	2.5	3.8	2990	S401_3.8 S3 M3SA6	514	S401_3.8 P90 BN90L6	515
263	39.2	1.0	10.7	2930	S401_10.7 S2 M2SA2	514	S401_10.7 P80 BN80B2	515
268	38.4	2.2	10.5	4090	S501_10.5 S2 M2SA2	516	S501_10.5 P80 BN80B2	517
284	36.3	1.4	4.9	1610	S301_4.9 S3 M3SA4	512	S301_4.9 P90 BN90S4	513
290	35.5	2.5	4.8	2850	S401_4.8 S3 M3SA4	514	S401_4.8 P90 BN90S4	515
300	34.3	1.7	3.1	1580	S301_3.1 S3 M3SA6	512	S301_3.1 P90 BN90L6	513
301	34.2	3.1	3.1	2810	S401_3.1 S3 M3SA6	514	S401_3.1 P90 BN90L6	515
319	32.2	2.6	8.8	3870	S501_8.8 S2 M2SA2	516	S501_8.8 P80 BN80B2	517
324	31.8	1.5	8.6	2760	S401_8.6 S2 M2SA2	514	S401_8.6 P80 BN80B2	515
355	29.0	1.7	3.9	1530	S301_3.9 S3 M3SA4	512	S301_3.9 P90 BN90S4	513
367	28.0	3.2	3.8	2650	S401_3.8 S3 M3SA4	514	S401_3.8 P90 BN90S4	515
377	27.3	1.1	2.4	1010	S201_2.4 S3 M3SA6	510	S201_2.4 P90 BN90L6	511
380	27.1	2.1	2.4	1490	S301_2.4 S3 M3SA6	512	S301_2.4 P90 BN90L6	513
391	26.3	2.4	7.2	2610	S401_7.2 S2 M2SA2	514	S401_7.2 P80 BN80B2	515
395	26.1	1.5	7.1	1500	S301_7.1 S2 M2SA2	512	S301_7.1 P80 BN80B2	513
450	22.9	1.1	3.1	990	S201_3.1 S3 M3SA4	510	S201_3.1 P90 BN90S4	511
457	22.5	2.2	3.1	1430	S301_3.1 S3 M3SA4	512	S301_3.1 P90 BN90S4	513
462	22.3	3.1	6.1	2490	S401_6.1 S2 M2SA2	514	S401_6.1 P80 BN80B2	515
479	21.5	1.9	5.8	1420	S301_5.8 S2 M2SA2	512	S301_5.8 P80 BN80B2	513
481	21.4	1.0	5.8	990	S201_5.8 S2 M2SA2	510	S201_5.8 P80 BN80B2	511
486	21.2	0.9	1.9	960	S201_1.9 S3 M3SA6	510	S201_1.9 P90 BN90L6	511
497	20.7	3.4	1.9	2420	S401_1.9 S3 M3SA6	514	S401_1.9 P90 BN90L6	515

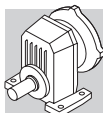


1.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
504	20.4	1.7	1.8	1380	S301_1.8 S3 M3SA6	512	S301_1.8 P90 BN90L6	513
568	18.1	2.2	4.9	1360	S301_4.9 S2 M2SA2	512	S301_4.9 P80 BN80B2	513
574	17.9	1.5	2.4	940	S201_2.4 S3 M3SA4	510	S201_2.4 P90 BN90S4	511
578	17.8	2.8	2.4	1340	S301_2.4 S3 M3SA4	512	S301_2.4 P90 BN90S4	513
587	17.5	1.2	4.8	950	S201_4.8 S2 M2SA2	510	S201_4.8 P80 BN80B2	511
654	15.7	2.2	1.4	1290	S301_1.4 S3 M3SA6	512	S301_1.4 P90 BN90L6	513
661	15.6	1.3	1.4	900	S201_1.4 S3 M3SA6	510	S201_1.4 P90 BN90L6	511
710	14.5	2.8	3.9	1280	S301_3.9 S2 M2SA2	512	S301_3.9 P80 BN80B2	513
712	14.5	1.5	3.9	910	S201_3.9 S2 M2SA2	510	S201_3.9 P80 BN80B2	511
739	13.9	1.2	1.9	890	S201_1.9 S3 M3SA4	510	S201_1.9 P90 BN90S4	511
767	13.4	2.2	1.8	1240	S301_1.8 S3 M3SA4	512	S301_1.8 P90 BN90S4	513
900	11.4	1.8	3.1	860	S201_3.1 S2 M2SA2	510	S201_3.1 P80 BN80B2	511
985	10.4	1.0	1.4	390	S101_1.4 S3 M3SA4	508	S101_1.4 P90 BN90S4	509
995	10.3	2.9	1.4	1150	S301_1.4 S3 M3SA4	512	S301_1.4 P90 BN90S4	513
1006	10.2	1.7	1.4	820	S201_1.4 S3 M3SA4	510	S201_1.4 P90 BN90S4	511
1149	9.0	2.3	2.4	810	S201_2.4 S2 M2SA2	510	S201_2.4 P80 BN80B2	511
1478	7.0	1.9	1.9	750	S201_1.9 S2 M2SA2	510	S201_1.9 P80 BN80B2	511
1493	6.9	1.2	1.9	380	S101_1.9 S2 M2SA2	508	S101_1.9 P80 BN80B2	509
1970	5.2	1.5	1.4	350	S101_1.4 S2 M2SA2	508	S101_1.4 P80 BN80B2	509
2013	5.1	2.5	1.4	690	S201_1.4 S2 M2SA2	510	S201_1.4 P80 BN80B2	511

2.2 kW

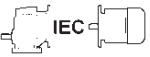
n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
154	134.1	1.1	6.1	4520	S501_6.1 S3 M3LC6	516	S501_6.1 P112 BN112M6	517
191	108.1	1.2	7.4	4280	S501_7.4 S3 M3LA4	516	S501_7.4 P100 BN100LA4	517
192	107.0	1.0	4.8	2880	S401_4.8 S3 M3LC6	514	S401_4.8 P112 BN112M6	515
196	105.2	1.7	4.8	4230	S501_4.8 S3 M3LC6	516	S501_4.8 P112 BN112M6	517
232	88.6	1.0	6.1	2790	S401_6.1 S3 M3LA4	514	S401_6.1 P100 BN100LA4	515
233	88.4	1.5	6.1	4060	S501_6.1 S3 M3LA4	516	S501_6.1 P100 BN100LA4	517
242	85.1	2.1	3.8	4000	S501_3.8 S3 M3LC6	516	S501_3.8 P112 BN112M6	517
244	84.4	1.2	3.8	2730	S401_3.8 S3 M3LC6	514	S401_3.8 P112 BN112M6	515
269	76.6	1.1	10.5	3910	S501_10.5 S3 M3SA2	516	S501_10.5 P90 BN90L2	517
292	70.6	1.3	4.8	2640	S401_4.8 S3 M3LA4	514	S401_4.8 P100 BN100LA4	515
297	69.4	2.2	4.8	3790	S501_4.8 S3 M3LA4	516	S501_4.8 P100 BN100LA4	517
305	67.6	1.6	3.1	2590	S401_3.1 S3 M3LC6	514	S401_3.1 P112 BN112M6	515
306	67.4	2.4	3.0	3750	S501_3.0 S3 M3LC6	516	S501_3.0 P112 BN112M6	517
320	64.3	1.3	8.8	3730	S501_8.8 S3 M3SA2	516	S501_8.8 P90 BN90L2	517
367	56.1	2.7	3.8	3570	S501_3.8 S3 M3LA4	516	S501_3.8 P100 BN100LA4	517
370	55.7	1.6	3.8	2490	S401_3.8 S3 M3LA4	514	S401_3.8 P100 BN100LA4	515
380	54.2	1.8	7.4	3540	S501_7.4 S3 M3SA2	516	S501_7.4 P90 BN90L2	517
384	53.6	1.1	2.4	1260	S301_2.4 S3 M3LC6	512	S301_2.4 P112 BN112M6	513
386	53.3	2.8	2.4	3500	S501_2.4 S3 M3LC6	516	S501_2.4 P112 BN112M6	517
389	52.9	2.0	2.4	2450	S401_2.4 S3 M3LC6	514	S401_2.4 P112 BN112M6	515
393	52.4	1.2	7.2	2460	S401_7.2 S3 M3SA2	514	S401_7.2 P90 BN90L2	515
460	44.7	1.1	3.1	1240	S301_3.1 S3 M3LA4	512	S301_3.1 P100 BN100LA4	513
462	44.6	2.0	3.1	2340	S401_3.1 S3 M3LA4	514	S401_3.1 P100 BN100LA4	515
463	44.5	1.6	6.1	2360	S401_6.1 S3 M3SA2	514	S401_6.1 P90 BN90L2	515

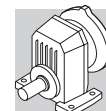


2.2 kW

n2 min-1	M2 Nm	S	i	Rn2 N				
463	44.4	3.2	3.0	3340	S501_3.0 S3 M3LA4	516	S501_3.0 P100 BN100LA4	517
464	44.4	2.3	6.1	3340	S501_6.1 S3 M3SA2	516	S501_6.1 P90 BN90L2	517
481	42.8	0.9	5.8	1250	S301_5.8 S3 M3SA2	512	S301_5.8 P90 BN90L2	513
502	41.0	1.7	1.9	2280	S401_1.9 S3 M3LC6	514	S401_1.9 P112 BN112M6	515
520	39.6	3.2	1.8	3210	S501_1.8 S3 M3LC6	516	S501_1.8 P112 BN112M6	517
570	36.1	1.1	4.9	1220	S301_4.9 S3 M3SA2	512	S301_4.9 P90 BN90L2	513
581	35.4	2.0	4.8	2210	S401_4.8 S3 M3SA2	514	S401_4.8 P90 BN90L2	515
582	35.4	1.4	2.4	1190	S301_2.4 S3 M3LA4	512	S301_2.4 P100 BN100LA4	513
590	34.9	2.6	2.4	2200	S401_2.4 S3 M3LA4	514	S401_2.4 P100 BN100LA4	515
592	34.8	3.4	4.8	3110	S501_4.8 S3 M3SA2	516	S501_4.8 P90 BN90L2	517
661	31.2	1.1	1.4	1140	S301_1.4 S3 M3LC6	512	S301_1.4 P112 BN112M6	513
682	30.2	2.3	1.4	2090	S401_1.4 S3 M3LC6	514	S401_1.4 P112 BN112M6	515
712	28.9	1.4	3.9	1160	S301_3.9 S3 M3SA2	512	S301_3.9 P90 BN90L2	513
737	27.9	2.5	3.8	2070	S401_3.8 S3 M3SA2	514	S401_3.8 P90 BN90L2	515
761	27.0	2.2	1.9	2040	S401_1.9 S3 M3LA4	514	S401_1.9 P100 BN100LA4	515
772	26.7	1.1	1.8	1120	S301_1.8 S3 M3LA4	512	S301_1.8 P100 BN100LA4	513
903	22.8	0.9	3.1	730	S201_3.1 S3 M3SA2	510	S201_3.1 P90 BN90L2	511
918	22.4	1.8	3.1	1100	S301_3.1 S3 M3SA2	512	S301_3.1 P90 BN90L2	513
921	22.4	3.1	3.1	1940	S401_3.1 S3 M3SA2	514	S401_3.1 P90 BN90L2	515
1002	20.6	1.5	1.4	1050	S301_1.4 S3 M3LA4	512	S301_1.4 P100 BN100LA4	513
1034	19.9	3.0	1.4	1860	S401_1.4 S3 M3LA4	514	S401_1.4 P100 BN100LA4	515
1153	17.9	1.2	2.4	710	S201_2.4 S3 M3SA2	510	S201_2.4 P90 BN90L2	511
1161	17.7	2.3	2.4	1030	S301_2.4 S3 M3SA2	512	S301_2.4 P90 BN90L2	513
1483	13.9	0.9	1.9	670	S201_1.9 S3 M3SA2	510	S201_1.9 P90 BN90L2	511
1539	13.4	1.8	1.8	960	S301_1.8 S3 M3SA2	512	S301_1.8 P90 BN90L2	513
1997	10.3	2.3	1.4	890	S301_1.4 S3 M3SA2	512	S301_1.4 P90 BN90L2	513
2020	10.2	1.3	1.4	630	S201_1.4 S3 M3SA2	510	S201_1.4 P90 BN90L2	511

3.0 kW

n2 min ⁻¹	M2 Nm	S	i	Rn2 N				
198	141.9	1.2	4.8	4040	S501_4.8 S4 M4SA6	516	S501_4.8 P132 BN132S6	517
233	120.6	1.1	6.1	3910	S501_6.1 S3 M3LB4	516	S501_6.1 P100 BN100LB4	517
245	114.8	1.5	3.8	3840	S501_3.8 S4 M4SA6	516	S501_3.8 P132 BN132S6	517
247	113.9	0.9	3.8	2550	S401_3.8 S4 M4SA6	514	S401_3.8 P132 BN132S6	515
292	96.2	0.9	4.8	2490	S401_4.8 S3 M3LB4	514	S401_4.8 P100 BN100LB4	515
297	94.6	1.6	4.8	3670	S501_4.8 S3 M3LB4	516	S501_4.8 P100 BN100LB4	517
308	91.2	1.2	3.1	2440	S401_3.1 S4 M4SA6	514	S401_3.1 P132 BN132S6	515
309	90.9	1.8	3.0	3630	S501_3.0 S4 M4SA6	516	S501_3.0 P132 BN132S6	517
326	86.1	1.0	8.8	3600	S501_8.8 S3 M3LA2	516	S501_8.8 P100 BN100L2	517
367	76.5	2.0	3.8	3470	S501_3.8 S3 M3LB4	516	S501_3.8 P100 BN100LB4	517
370	75.9	1.2	3.8	2370	S401_3.8 S3 M3LB4	514	S401_3.8 P100 BN100LB4	515
386	72.6	1.4	7.4	3440	S501_7.4 S3 M3LA2	516	S501_7.4 P100 BN100L2	517
390	71.9	2.1	2.4	3390	S501_2.4 S4 M4SA6	516	S501_2.4 P132 BN132S6	517
393	71.4	1.5	2.4	2320	S401_2.4 S4 M4SA6	514	S401_2.4 P132 BN132S6	515
462	60.8	1.5	3.1	2250	S401_3.1 S3 M3LB4	514	S401_3.1 P100 BN100LB4	515
463	60.6	2.3	3.0	3260	S501_3.0 S3 M3LB4	516	S501_3.0 P100 BN100LB4	517
471	59.6	1.2	6.1	2260	S401_6.1 S3 M3LA2	514	S401_6.1 P100 BN100L2	515

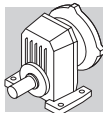


3.0 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
472	59.4	1.7	6.1	3260	S501_6.1 S3 M3LA2	516	S501_6.1 P100 BN100L2	517
508	55.3	1.3	1.9	2170	S401_1.9 S4 M4SA6	514	S401_1.9 P132 BN132S6	515
526	53.4	2.3	1.8	3120	S501_1.8 S4 M4SA6	516	S501_1.8 P132 BN132S6	517
582	48.2	1.0	2.4	1080	S301_2.4 S3 M3LB4	512	S301_2.4 P100 BN100LB4	513
586	47.9	2.7	2.4	3040	S501_2.4 S3 M3LB4	516	S501_2.4 P100 BN100LB4	517
590	47.6	1.9	2.4	2120	S401_2.4 S3 M3LB4	514	S401_2.4 P100 BN100LB4	515
592	47.4	1.5	4.8	2130	S401_4.8 S3 M3LA2	514	S401_4.8 P100 BN100L2	515
602	46.6	2.6	4.8	3030	S501_4.8 S3 M3LA2	516	S501_4.8 P100 BN100L2	517
661	42.4	2.9	1.4	2920	S501_1.4 S4 M4SA6	516	S501_1.4 P132 BN132S6	517
689	40.7	1.7	1.4	2010	S401_1.4 S4 M4SA6	514	S401_1.4 P132 BN132S6	515
725	38.7	1.0	3.9	1070	S301_3.9 S3 M3LA2	512	S301_3.9 P100 BN100L2	513
744	37.7	3.2	3.8	2850	S501_3.8 S3 M3LA2	516	S501_3.8 P100 BN100L2	517
750	37.4	1.9	3.8	2000	S401_3.8 S3 M3LA2	514	S401_3.8 P100 BN100L2	515
761	36.9	1.6	1.9	1970	S401_1.9 S3 M3LB4	514	S401_1.9 P100 BN100LB4	515
789	35.6	3.1	1.8	2780	S501_1.8 S3 M3LB4	516	S501_1.8 P100 BN100LB4	517
934	30.1	1.3	3.1	1020	S301_3.1 S3 M3LA2	512	S301_3.1 P100 BN100L2	513
937	30.0	2.3	3.1	1880	S401_3.1 S3 M3LA2	514	S401_3.1 P100 BN100L2	515
1002	28.0	1.1	1.4	980	S301_1.4 S3 M3LB4	512	S301_1.4 P100 BN100LB4	513
1034	27.2	2.2	1.4	1820	S401_1.4 S3 M3LB4	514	S401_1.4 P100 BN100LB4	515
1181	23.8	1.7	2.4	980	S301_2.4 S3 M3LA2	512	S301_2.4 P100 BN100L2	513
1196	23.5	3.0	2.4	1760	S401_2.4 S3 M3LA2	514	S401_2.4 P100 BN100L2	515
1544	18.2	2.6	1.9	1630	S401_1.9 S3 M3LA2	514	S401_1.9 P100 BN100L2	515
1566	17.9	1.3	1.8	910	S301_1.8 S3 M3LA2	512	S301_1.8 P100 BN100L2	513
2032	13.8	1.7	1.4	850	S301_1.4 S3 M3LA2	512	S301_1.4 P100 BN100L2	513
2056	13.7	1.0	1.4	580	S201_1.4 S3 M3LA2	510	S201_1.4 P100 BN100L2	511

4.0 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
200	187.2	0.9	4.8	3810	S501_4.8 S4 M4LA6	516	S501_4.8 P132 BN132MA6	517
247	151.4	1.2	3.8	3650	S501_3.8 S4 M4LA6	516	S501_3.8 P132 BN132MA6	517
293	127.9	1.2	4.8	3530	S501_4.8 S3 M3LC4	516	S501_4.8 P112 BN112M4	517
312	119.9	1.3	3.0	3470	S501_3.0 S4 M4LA6	516	S501_3.0 P132 BN132MA6	517
362	103.5	1.4	3.8	3360	S501_3.8 S3 M3LC4	516	S501_3.8 P112 BN112M4	517
388	96.5	1.0	7.4	3320	S501_7.4 S3 M3LB2	516	S501_7.4 P112 BN112M2	517
395	94.9	1.6	2.4	3270	S501_2.4 S4 M4LA6	516	S501_2.4 P132 BN132MA6	517
397	94.2	1.1	2.4	2180	S401_2.4 S4 M4LA6	514	S401_2.4 P132 BN132MA6	515
455	82.2	1.1	3.1	2130	S401_3.1 S3 M3LC4	514	S401_3.1 P112 BN112M4	515
457	82.0	1.7	3.0	3170	S501_3.0 S3 M3LC4	516	S501_3.0 P112 BN112M4	517
474	79.0	1.3	6.1	3160	S501_6.1 S3 M3LB2	516	S501_6.1 P112 BN112M2	517
513	73.0	1.0	1.9	2050	S401_1.9 S4 M4LA6	514	S401_1.9 P132 BN132MA6	515
531	70.5	1.8	1.8	3020	S501_1.8 S4 M4LA6	516	S501_1.8 P132 BN132MA6	517
577	64.8	2.0	2.4	2970	S501_2.4 S3 M3LC4	516	S501_2.4 P112 BN112M4	517
581	64.4	1.4	2.4	2030	S401_2.4 S3 M3LC4	514	S401_2.4 P112 BN112M4	515
594	63.0	1.1	4.8	2040	S401_4.8 S3 M3LB2	514	S401_4.8 P112 BN112M2	515
604	62.0	1.9	4.8	2960	S501_4.8 S3 M3LB2	516	S501_4.8 P112 BN112M2	517
669	56.0	2.2	1.4	2830	S501_1.4 S4 M4LA6	516	S501_1.4 P132 BN132MA6	517
697	53.7	1.3	1.4	1920	S401_1.4 S4 M4LA6	514	S401_1.4 P132 BN132MA6	515

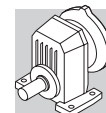


4.0 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
747	50.1	2.4	3.8	2790	S501_3.8 S3 M3LB2	516	S501_3.8 P112 BN112M2	517
751	49.9	1.2	1.9	1900	S401_1.9 S3 M3LC4	514	S401_1.9 P112 BN112M4	515
753	49.7	1.4	3.8	1930	S401_3.8 S3 M3LB2	514	S401_3.8 P112 BN112M2	515
777	48.2	2.3	1.8	2730	S501_1.8 S3 M3LC4	516	S501_1.8 P112 BN112M4	517
937	39.9	1.0	3.1	940	S301_3.1 S3 M3LB2	512	S301_3.1 P112 BN112M2	513
940	39.8	1.8	3.1	1820	S401_3.1 S3 M3LB2	514	S401_3.1 P112 BN112M2	515
943	39.7	2.8	3.0	2610	S501_3.0 S3 M3LB2	516	S501_3.0 P112 BN112M2	517
978	38.3	2.9	1.4	2560	S501_1.4 S3 M3LC4	516	S501_1.4 P112 BN112M4	517
1019	36.7	1.6	1.4	1760	S401_1.4 S3 M3LC4	514	S401_1.4 P112 BN112M4	515
1185	31.6	1.3	2.4	910	S301_2.4 S3 M3LB2	512	S301_2.4 P112 BN112M2	513
1192	31.4	3.2	2.4	2430	S501_2.4 S3 M3LB2	516	S501_2.4 P112 BN112M2	517
1200	31.2	2.2	2.4	1710	S401_2.4 S3 M3LB2	514	S401_2.4 P112 BN112M2	515
1550	24.2	2.0	1.9	1590	S401_1.9 S3 M3LB2	514	S401_1.9 P112 BN112M2	515
1572	23.8	1.0	1.8	860	S301_1.8 S3 M3LB2	512	S301_1.8 P112 BN112M2	513
2039	18.4	1.3	1.4	810	S301_1.4 S3 M3LB2	512	S301_1.4 P112 BN112M2	513
2105	17.8	2.7	1.4	1460	S401_1.4 S3 M3LB2	514	S401_1.4 P112 BN112M2	515

5.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N				
311	165.8	1.0	3.0	3260	S501_3.0 S4 M4LB6	516	S501_3.0 P132 BN132MB6	517
375	137.3	1.1	3.8	3150	S501_3.8 S4 M4SA4	516	S501_3.8 P132 BN132S4	517
393	131.1	1.1	2.4	3090	S501_2.4 S4 M4LB6	516	S501_2.4 P132 BN132MB6	517
473	108.8	1.3	3.0	3000	S501_3.0 S4 M4SA4	516	S501_3.0 P132 BN132S4	517
477	107.9	0.9	6.1	3020	S501_6.1 S4 M4SA2	516	S501_6.1 P132 BN132SA2	517
529	97.4	1.3	1.8	2880	S501_1.8 S4 M4LB6	516	S501_1.8 P132 BN132MB6	517
598	86.1	1.5	2.4	2830	S501_2.4 S4 M4SA4	516	S501_2.4 P132 BN132S4	517
602	85.5	1.1	2.4	1870	S401_2.4 S4 M4SA4	514	S401_2.4 P132 BN132S4	515
608	84.6	1.4	4.8	2840	S501_4.8 S4 M4SA2	516	S501_4.8 P132 BN132SA2	517
665	77.4	1.6	1.4	2720	S501_1.4 S4 M4LB6	516	S501_1.4 P132 BN132MB6	517
693	74.3	0.9	1.4	1780	S401_1.4 S4 M4LB6	514	S401_1.4 P132 BN132MB6	515
752	68.4	1.8	3.8	2690	S501_3.8 S4 M4SA2	516	S501_3.8 P132 BN132SA2	517
758	67.9	1.0	3.8	1810	S401_3.8 S4 M4SA2	514	S401_3.8 P132 BN132SA2	515
778	66.2	0.9	1.9	1770	S401_1.9 S4 M4SA4	514	S401_1.9 P132 BN132S4	515
805	63.9	1.7	1.8	2610	S501_1.8 S4 M4SA4	516	S501_1.8 P132 BN132S4	517
947	54.4	1.3	3.1	1730	S401_3.1 S4 M4SA2	514	S401_3.1 P132 BN132SA2	515
950	54.2	2.0	3.0	2530	S501_3.0 S4 M4SA2	516	S501_3.0 P132 BN132SA2	517
1013	50.8	2.2	1.4	2450	S501_1.4 S4 M4SA4	516	S501_1.4 P132 BN132S4	517
1056	48.7	1.2	1.4	1660	S401_1.4 S4 M4SA4	514	S401_1.4 P132 BN132S4	515
1200	42.9	2.3	2.4	2370	S501_2.4 S4 M4SA2	516	S501_2.4 P132 BN132SA2	517
1209	42.6	1.6	2.4	1640	S401_2.4 S4 M4SA2	514	S401_2.4 P132 BN132SA2	515
1561	33.0	1.5	1.9	1530	S401_1.9 S4 M4SA2	514	S401_1.9 P132 BN132SA2	515
1616	31.8	2.7	1.8	2170	S501_1.8 S4 M4SA2	516	S501_1.8 P132 BN132SA2	517
2034	25.3	3.4	1.4	2030	S501_1.4 S4 M4SA2	516	S501_1.4 P132 BN132SA2	517
2119	24.3	2.0	1.4	1410	S401_1.4 S4 M4SA2	514	S401_1.4 P132 BN132SA2	515

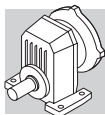


7.5 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			IEC 	
473	148.4	0.9	3.0	2810	S501_3.0 S4 M4LA4	516	S501_3.0 P132 BN132MA4	517
534	131.4	1.0	1.8	2690			S501_1.8 P160 BN160M6	517
598	117.3	1.1	2.4	2670	S501_2.4 S4 M4LA4	516	S501_2.4 P132 BN132MA4	517
611	115.0	1.0	4.8	2690	S501_4.8 S4 M4SB2	516	S501_4.8 P132 BN132SB2	517
672	104.4	1.2	1.4	2560			S501_1.4 P160 BN160M6	517
755	93.0	1.3	3.8	2570	S501_3.8 S4 M4SB2	516	S501_3.8 P132 BN132SB2	517
805	87.1	1.3	1.8	2490	S501_1.8 S4 M4LA4	516	S501_1.8 P132 BN132MA4	517
950	73.9	0.9	3.1	1610	S401_3.1 S4 M4SB2	514	S401_3.1 P132 BN132SB2	515
953	73.7	1.5	3.0	2440	S501_3.0 S4 M4SB2	516	S501_3.0 P132 BN132SB2	517
1013	69.3	1.6	1.4	2350	S501_1.4 S4 M4LA4	516	S501_1.4 P132 BN132MA4	517
1056	66.5	0.9	1.4	1540	S401_1.4 S4 M4LA4	514	S401_1.4 P132 BN132MA4	515
1205	58.3	1.7	2.4	2290	S501_2.4 S4 M4SB2	516	S501_2.4 P132 BN132SB2	517
1213	57.9	1.2	2.4	1540	S401_2.4 S4 M4SB2	514	S401_2.4 P132 BN132SB2	515
1566	44.8	1.1	1.9	1450	S401_1.9 S4 M4SB2	514	S401_1.9 P132 BN132SB2	515
1622	43.3	2.0	1.8	2110	S501_1.8 S4 M4SB2	516	S501_1.8 P132 BN132SB2	517
2041	34.4	2.5	1.4	1980	S501_1.4 S4 M4SB2	516	S501_1.4 P132 BN132SB2	517
2127	33.0	1.5	1.4	1350	S401_1.4 S4 M4SB2	514	S401_1.4 P132 BN132SB2	515

9.2 kW

n ₂ min ⁻¹	M ₂ Nm	S	i	R _{n2} N			IEC 	
598	143.9	0.9	2.4	2530	S501_2.4 S4 M4LB4	516	S501_2.4 P132 BN132MB4	517
755	114.1	1.1	3.8	2470	S501_3.8 S4 M4LA2	516	S501_3.8 P132 BN132M2	517
805	106.9	1.0	1.8	2390	S501_1.8 S4 M4LB4	516	S501_1.8 P132 BN132MB4	517
953	90.4	1.2	3.0	2360	S501_3.0 S4 M4LA2	516	S501_3.0 P132 BN132M2	517
1013	85.0	1.3	1.4	2270	S501_1.4 S4 M4LB4	516	S501_1.4 P132 BN132MB4	517
1205	71.5	1.4	2.4	2220	S501_2.4 S4 M4LA2	516	S501_2.4 P132 BN132M2	517
1213	71.0	1.0	2.4	1460	S401_2.4 S4 M4LA2	514	S401_2.4 P132 BN132M2	515
1622	53.1	1.6	1.8	2060	S501_1.8 S4 M4LA2	516	S501_1.8 P132 BN132M2	517
2041	42.2	2.0	1.4	1930	S501_1.4 S4 M4LA2	516	S501_1.4 P132 BN132M2	517
2127	40.5	1.2	1.4	1300	S401_1.4 S4 M4LA2	514	S401_1.4 P132 BN132M2	515



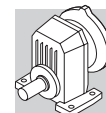
75 DATOS TECNICOS REDUCTORES

S 10

21 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 10 1_1.4	1.4	1972	8.0	1.7	800	310	986	10.0	1.1	800	390	509
S 10 1_1.9	1.9	1489	8.0	1.3	800	360	745	10.0	0.80	800	460	
S 10 1_2.5	2.5	1120	8.0	0.96	800	420	560	10.0	0.60	800	520	
S 10 1_3.2	3.2	875	10.0	0.93	800	440	438	12.0	0.56	800	560	
S 10 1_3.8	3.8	727	10.0	0.78	800	480	364	12.0	0.47	800	610	
S 10 1_4.7	4.7	592	10.0	0.63	800	520	296	12.0	0.38	800	660	
S 10 1_6.1	6.1	458	12.0	0.59	800	560	229	15.0	0.37	800	710	
S 10 1_6.9	6.9	406	12.0	0.52	800	580	203	15.0	0.33	800	740	
S 10 1_8.9	8.9	315	8.0	0.27	800	700	158	10.0	0.17	800	880	
S 10 1_10.3	10.3	272	8.0	0.23	800	740	136	10.0	0.15	800	930	
S 10 1_12.3	12.3	227	8.0	0.19	800	800	114	10.0	0.12	800	1000	

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 10 1_1.4	1.4	634	12.0	0.81	800	450	352	14.0	0.53	800	560	509
S 10 1_1.9	1.9	479	12.0	0.61	800	520	266	14.0	0.40	800	640	
S 10 1_2.5	2.5	360	12.0	0.46	800	600	200	14.0	0.30	800	740	
S 10 1_3.2	3.2	281	14.0	0.42	800	650	156	17.0	0.28	800	790	
S 10 1_3.8	3.8	234	14.0	0.35	800	700	130	17.0	0.24	800	850	
S 10 1_4.7	4.7	190	14.0	0.28	800	770	106	17.0	0.19	800	930	
S 10 1_6.1	6.1	147	17.0	0.27	800	820	82	21	0.18	800	1000	
S 10 1_6.9	6.9	130	17.0	0.24	800	860	72	21	0.16	800	1040	
S 10 1_8.9	8.9	101	12.0	0.13	800	1020	56	14.0	0.08	800	1200	
S 10 1_10.3	10.3	87	12.0	0.11	800	1080	49	14.0	0.07	800	1200	
S 10 1_12.3	12.3	73	12.0	0.09	800	1160	41	14.0	0.06	800	1200	

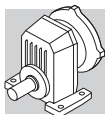


S 20

37 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 20 1_1.4	1.4	2014	13.0	2.8	1000	590	1007	17.0	1.8	1000	740	511
S 20 1_1.9	1.9	1481	13.0	2.1	1000	680	741	17.0	1.3	1000	860	
S 20 1_2.4	2.4	1148	21	2.6	640	680	574	26	1.6	850	860	
S 20 1_3.1	3.1	900	21	2.0	730	750	450	26	1.3	960	950	
S 20 1_3.9	3.9	712	21	1.6	820	840	356	26	0.99	1000	1060	
S 20 1_4.8	4.8	587	21	1.3	910	920	294	26	0.82	1000	1160	
S 20 1_5.8	5.8	481	21	1.1	960	1000	241	26	0.67	1000	1260	
S 20 1_7.2	7.2	388	21	0.87	980	1090	194	26	0.54	1000	1370	
S 20 1_8.5	8.5	329	13.0	0.46	1000	1240	165	17.0	0.30	1000	1500	
S 20 1_10.8	10.8	260	13.0	0.36	1000	1350	130	17.0	0.24	1000	1500	
S 20 1_12.4	12.4	225	13.0	0.31	1000	1430	113	17.0	0.20	1000	1500	

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 20 1_1.4	1.4	647	20	1.4	1000	850	360	24	0.92	1000	1040	511
S 20 1_1.9	1.9	476	20	1.0	1000	990	265	24	0.68	1000	1210	
S 20 1_2.4	2.4	369	30	1.2	990	990	205	37	0.81	1000	1200	
S 20 1_3.1	3.1	289	30	0.93	1000	1110	161	37	0.64	1000	1340	
S 20 1_3.9	3.9	229	30	0.73	1000	1230	127	37	0.50	1000	1490	
S 20 1_4.8	4.8	189	30	0.60	1000	1350	105	37	0.41	1000	1500	
S 20 1_5.8	5.8	155	30	0.50	1000	1460	86	37	0.34	1000	1500	
S 20 1_7.2	7.2	125	30	0.40	1000	1500	69	37	0.27	1000	1500	
S 20 1_8.5	8.5	106	20	0.23	1000	1500	59	24	0.15	1000	1500	
S 20 1_10.8	10.8	84	20	0.18	1000	1500	47	24	0.12	1000	1500	
S 20 1_12.4	12.4	72	20	0.15	1000	1500	40	24	0.10	1000	1500	

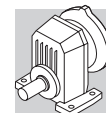


S 30

70 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 30 1_1.4	1.4	1986	24	5.1	1500	770	993	30	3.2	1500	970	513
S 30 1_1.8	1.8	1530	24	3.9	1500	870	765	30	2.5	1500	1090	
S 30 1_2.4	2.4	1157	40	4.9	1270	850	579	50	3.1	1500	1070	
S 30 1_3.1	3.1	915	40	3.9	1470	950	458	50	2.4	1500	1200	
S 30 1_3.9	3.9	711	40	3.0	1500	1070	355	50	1.9	1500	1360	
S 30 1_4.9	4.9	568	40	2.4	1500	1190	284	50	1.5	1500	1500	
S 30 1_5.8	5.8	479	40	2.0	1500	1280	239	50	1.3	1500	1610	
S 30 1_7.1	7.1	395	40	1.7	1500	1390	197	50	1.1	1500	1750	
S 30 1_8.9	8.9	315	24	0.81	1500	1650	157	30	0.50	1500	2080	
S 30 1_10.3	10.3	272	24	0.70	1500	1740	136	30	0.44	1500	2190	
S 30 1_13.1	13.1	213	24	0.55	1500	1900	107	30	0.34	1500	2400	

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 30 1_1.4	1.4	638	35	2.4	1500	1120	355	42	1.6	1500	1360	513
S 30 1_1.8	1.8	492	35	1.8	1500	1260	273	42	1.2	1500	1540	
S 30 1_2.4	2.4	372	58	2.3	1500	1240	207	70	1.5	1500	1510	
S 30 1_3.1	3.1	294	58	1.8	1500	1390	163	70	1.2	1500	1700	
S 30 1_3.9	3.9	228	58	1.4	1500	1570	127	70	0.95	1500	1920	
S 30 1_4.9	4.9	183	58	1.1	1500	1740	101	70	0.76	1500	2120	
S 30 1_5.8	5.8	154	58	0.95	1500	1870	85	70	0.64	1500	2280	
S 30 1_7.1	7.1	127	58	0.79	1500	2030	71	62	0.47	1500	2400	
S 30 1_8.9	8.9	101	35	0.38	1500	2400	56	42	0.25	1500	2400	
S 30 1_10.3	10.3	87	35	0.33	1500	2400	49	42	0.22	1500	2400	
S 30 1_13.1	13.1	69	35	0.26	1500	2400	38	37	0.15	1500	2400	

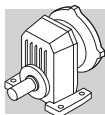


S 40

125 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 40 1_1.4	1.4	2059	48	10.6	2000	1270	1029	60	6.6	2000	1600	515
S 40 1_1.9	1.9	1514	48	7.8	2000	1450	757	60	4.9	2000	1830	
S 40 1_2.4	2.4	1172	70	8.8	1860	1490	586	90	5.6	2000	1870	
S 40 1_3.1	3.1	918	70	6.9	2000	1660	459	90	4.4	2000	2080	
S 40 1_3.8	3.8	735	70	5.5	2000	1830	367	90	3.5	2000	2290	
S 40 1_4.8	4.8	580	70	4.3	2000	2020	290	90	2.8	2000	2530	
S 40 1_6.1	6.1	461	70	3.5	2000	2220	231	90	2.2	2000	2790	
S 40 1_7.2	7.2	392	63	2.6	2000	2410	196	80	1.7	2000	3030	
S 40 1_8.6	8.6	324	48	1.7	2000	2670	162	60	1.0	2000	3370	
S 40 1_10.7	10.7	262	40	1.1	2000	2930	131	50	0.70	2000	3690	
S 40 1_12.4	12.4	226	40	1.0	2000	3100	113	50	0.60	2000	3800	

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 40 1_1.4	1.4	662	70	4.9	2000	1850	368	85	3.3	2000	2250	515
S 40 1_1.9	1.9	486	70	3.6	2000	2120	270	85	2.5	2000	2580	
S 40 1_2.4	2.4	377	105	4.2	2000	2160	209	125	2.8	2000	2650	
S 40 1_3.1	3.1	295	105	3.3	2000	2400	164	125	2.2	2000	2940	
S 40 1_3.8	3.8	236	105	2.7	2000	2650	131	125	1.8	2000	3240	
S 40 1_4.8	4.8	186	105	2.1	2000	2930	104	125	1.4	2000	3580	
S 40 1_6.1	6.1	148	105	1.7	2000	3220	82	110	1.0	2000	3800	
S 40 1_7.2	7.2	126	90	1.2	2000	3530	70	90	0.67	2000	3800	
S 40 1_8.6	8.6	104	70	0.78	2000	3800	58	85	0.53	2000	3800	
S 40 1_10.7	10.7	84	58	0.52	2000	3800	47	70	0.35	2000	3800	
S 40 1_12.4	12.4	73	58	0.45	2000	3800	40	70	0.30	2000	3800	

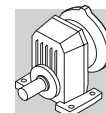


S 50

200 Nm

	i	n ₁ = 2800 min ⁻¹					n ₁ = 1400 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 50 1_1.4	1.4	1972	85	17.9	730	1720	986	110	11.6	730	2150	517
S 50 1_1.8	1.8	1564	85	14.2	1220	1920	782	110	9.2	1370	2400	
S 50 1_2.4	2.4	1162	100	12.4	930	2110	581	130	8.1	970	2640	
S 50 1_3.0	3.0	921	110	10.8	860	2300	461	140	6.9	1020	2880	
S 50 1_3.8	3.8	729	120	9.3	640	2480	365	150	5.8	860	3130	
S 50 1_4.8	4.8	589	120	7.6	880	2710	295	150	4.7	1160	3420	
S 50 1_6.1	6.1	462	100	4.9	1980	3100	231	130	3.2	2330	3880	
S 50 1_7.4	7.4	378	100	4.0	2060	3340	189	130	2.6	2400	4190	
S 50 1_8.8	8.8	319	85	2.9	2400	3640	160	110	1.9	2400	4570	
S 50 1_10.5	10.5	268	85	2.4	2400	3880	134	110	1.6	2400	4870	
S 50 1_12.9	12.9	217	80	1.9	2400	4200	109	100	1.2	2400	5300	

	i	n ₁ = 900 min ⁻¹					n ₁ = 500 min ⁻¹					
		n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	n ₂ min ⁻¹	M _{n2} Nm	P _{n1} kW	R _{n1} N	R _{n2} N	
S 50 1_1.4	1.4	634	125	8.5	1010	2510	352	155	5.8	1040	3040	517
S 50 1_1.8	1.8	503	125	6.7	1730	2790	279	155	4.6	1940	3380	
S 50 1_2.4	2.4	373	150	6.0	1160	3060	207	180	4.0	1530	3730	
S 50 1_3.0	3.0	296	160	5.1	1290	3350	164	200	3.5	1310	4050	
S 50 1_3.8	3.8	234	175	4.4	940	3620	130	200	2.8	1740	4460	
S 50 1_4.8	4.8	189	175	3.5	1290	3960	105	180	2.0	2400	4970	
S 50 1_6.1	6.1	149	150	2.4	2400	4500	83	150	1.3	2400	5620	
S 50 1_7.4	7.4	122	140	1.8	2400	4900	68	140	1.0	2400	6100	
S 50 1_8.8	8.8	103	125	1.4	2400	5310	57	125	0.80	2400	6580	
S 50 1_10.5	10.5	86	115	1.1	2400	5700	48	115	0.60	2400	7050	
S 50 1_12.9	12.9	70	100	0.70	2400	6210	39	100	0.40	2400	7200	



76 PREDISPOSICIONES MOTOR

En las siguientes tablas se especifican los montajes posibles de motores en términos puramente geométricos.

La selección del motorreductor debe efectuarse siguiendo las instrucciones especificadas en el párrafo 12, respetando particularmente la condición $S \geq f_s$.

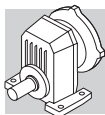
(E 69)

		IEC_  (IM B5)								
		BN								
$P_{n1}^{(*)}$ [kW]	2p	0.37	0.75	1.5	2.2	4	4	9.2	18.5	22
	4p	0.25	0.55	1.1	1.85	3	4	9.2	15	22
	6p	0.12	0.37	0.75	1.1	1.85	2.2	5.5	11	15
		P63	P71	P80	P90	P100	P112	P132	P160	P180
S 10 1	i =	1.4_12.3	1.4_12.3	1.4_8.9	1.4_8.9	1.4_8.9	1.4_8.9			
S 20 1		1.9_12.4	1.9_12.4	1.4_10.8	1.4_10.8	1.4_10.8	1.4_10.8			
S 30 1		2.4_13.1	2.4_13.1	1.4_13.1	1.4_13.1	1.4_13.1	1.4_13.1	1.4_4.9		
S 40 1		3.1_12.4	3.1_12.4	1.4_12.4	1.4_12.4	1.4_12.4	1.4_12.4	1.4_6.1		
S 50 1		3.8_12.9	3.8_12.9	1.4_12.9	1.4_12.9	1.4_12.9	1.4_12.9	1.4_7.4	1.4_7.4	1.4_7.4

(*) P_{n1} = Máxima potencia instalable en la entrada P_{-}

(E 70)

		 M					
		M05	M1	M2	M3	M4	M5
S 10 1	i =	1.4_12.3	1.4_6.9	1.4_8.9	1.4_8.9		
S 20 1		1.9_12.4	1.9_8.5	1.4_10.8	1.4_10.8		
S 30 1			2.4_10.3	1.4_13.1	1.4_13.1	1.4_4.9	
S 40 1			3.1_12.4	1.4_12.4	1.4_12.4	1.4_6.1	
S 50 1			3.8_12.9	1.4_12.9	1.4_12.9	1.4_7.4	1.4_7.4



77 MOMENTO DE INERCIA

Las tablas siguientes indican los valores del momento de inercia J_r [Kgm²] referido al eje de entrada del reductor; para una mejor facilidad de comprensión rogamos tengan presente el significado de los símbolos utilizados.

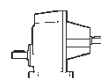


Los valores referidos a este símbolo corresponden al reductor compacto sin motor. En este caso para obtener el momento de inercia del motorreductor, se deberá sumar al valor correspondiente al reductor compacto, el del motor que se aplique



IEC

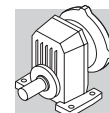
El valor relativo a este símbolo corresponde al reductor predispuesto para el montaje de motor (tamaño IEC).



El valor atribuido al reductor es referido a este símbolo.

S 10

	i	J (•10-4) [kgm²]							
			 IEC						
			63	71	80	90	100	112	
S 10 1_1.4	1.4	0.33	1.8	1.8	3.2	3.1	4.4	4.4	1.2
S 10 1_1.9	1.9	0.22	1.7	1.7	3.1	3.0	4.3	4.3	1.1
S 10 1_2.5	2.5	0.16	1.6	1.6	3.0	2.9	4.2	4.2	1.0
S 10 1_3.2	3.2	0.10	1.6	1.6	3.0	2.9	4.2	4.2	0.97
S 10 1_3.8	3.8	0.08	1.5	1.5	2.9	2.9	4.2	4.2	0.95
S 10 1_4.7	4.7	0.06	1.5	1.5	2.9	2.8	4.1	4.1	0.93
S 10 1_6.1	6.1	0.04	1.5	1.5	2.9	2.8	4.1	4.1	0.92
S 10 1_6.9	6.9	0.03	1.5	1.5	2.9	2.8	4.1	4.1	0.91
S 10 1_8.9	8.9	0.02	1.5	1.5	2.9	2.8	4.1	4.1	0.90
S 10 1_10.3	10.3	0.02	1.5	1.5	—	—	—	—	0.89
S 10 1_12.3	12.3	0.01	1.5	1.5	—	—	—	—	0.89

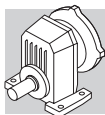


S 20

	i	J (•10 ⁻⁴) [kgm ²]							
			IEC						
			63	71	80	90	100	112	
S 20 1_1.4	1.4	0.73	—	—	3.6	3.5	4.8	4.8	2.7
S 20 1_1.9	1.9	0.48	1.9	1.9	3.3	3.3	4.6	4.6	2.4
S 20 1_2.4	2.4	0.34	1.8	1.8	3.2	3.1	4.4	4.4	2.3
S 20 1_3.1	3.1	0.20	1.7	1.7	3.0	3.0	4.3	4.3	2.1
S 20 1_3.9	3.9	0.14	1.6	1.6	3.0	2.9	4.2	4.2	2.1
S 20 1_4.8	4.8	0.12	1.6	1.6	3.0	2.9	4.2	4.2	2.0
S 20 1_5.8	5.8	0.08	1.6	1.5	2.9	2.9	4.2	4.2	2.0
S 20 1_7.2	7.2	0.06	1.5	1.5	2.9	2.8	4.1	4.1	2.0
S 20 1_8.5	8.5	0.05	1.5	1.5	2.9	2.8	4.1	4.1	2.0
S 20 1_10.8	10.8	0.03	1.5	1.5	2.9	2.8	4.1	4.1	1.9
S 20 1_12.4	12.4	0.02	1.5	1.5	—	—	—	—	1.9

S 30

	i	J (•10 ⁻⁴) [kgm ²]							
			IEC						
			63	71	80	90	100	112	132
S 30 1_1.4	1.4	1.5	—	—	4.3	4.3	5.6	5.6	18
S 30 1_1.8	1.8	1.1	—	—	3.9	3.8	5.1	5.1	18
S 30 1_2.4	2.4	0.59	2.1	2.0	3.4	3.4	4.7	4.7	17
S 30 1_3.1	3.1	0.45	1.9	1.9	3.3	3.2	4.5	4.5	17
S 30 1_3.9	3.9	0.33	1.8	1.8	3.2	3.1	4.4	4.4	17
S 30 1_4.9	4.9	0.24	1.7	1.7	3.1	3.0	4.3	4.3	17
S 30 1_5.8	5.8	0.19	1.7	1.7	3.0	3.0	4.3	4.3	—
S 30 1_7.1	7.1	0.14	1.6	1.6	3.0	2.9	4.2	4.2	—
S 30 1_8.9	8.9	0.10	1.6	1.6	2.9	2.9	4.2	4.2	—
S 30 1_10.3	10.3	0.08	1.5	1.5	2.9	2.9	4.2	4.2	—
S 30 1_13.1	13.1	0.05	1.5	1.5	2.9	2.8	4.1	4.1	—

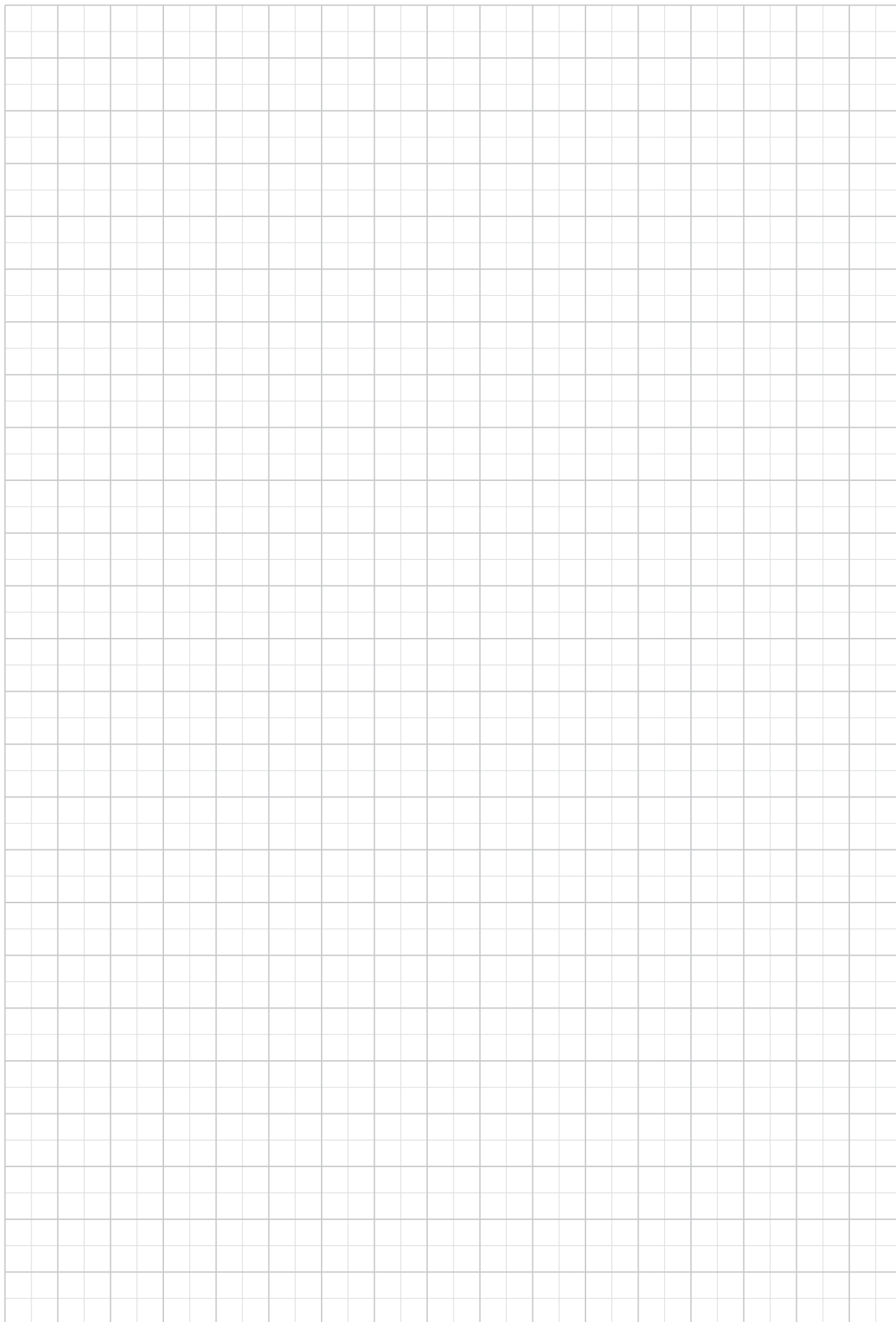
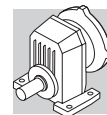


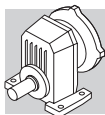
S 40

	i	J (•10 ⁻⁴) [kgm ²]								
			IEC							
			63	71	80	90	100	112	132	
S 40 1_1.4	1.4	3.7	—	—	6.5	6.5	7.8	7.8	23	14
S 40 1_1.9	1.9	2.4	—	—	5.2	5.2	6.5	6.5	21	13
S 40 1_2.4	2.4	1.6	—	—	4.4	4.4	5.7	5.7	21	12
S 40 1_3.1	3.1	1.1	2.6	2.6	4.0	3.9	5.2	5.2	20	12
S 40 1_3.8	3.8	0.82	2.3	2.3	3.7	3.6	4.9	4.9	18	11
S 40 1_4.8	4.8	0.50	2.0	2.0	3.3	3.3	4.6	4.6	18	11
S 40 1_6.1	6.1	0.39	1.8	1.8	3.2	3.2	4.5	4.5	18	11
S 40 1_7.2	7.2	0.30	1.8	1.8	3.1	3.1	4.4	4.4	—	11
S 40 1_8.6	8.6	0.22	1.7	1.7	3.1	3.0	4.3	4.3	—	11
S 40 1_10.7	10.7	0.15	1.6	1.6	3.0	2.9	4.2	4.2	—	11
S 40 1_12.4	12.4	0.12	1.6	1.6	3.0	2.8	4.2	4.2	—	11

S 50

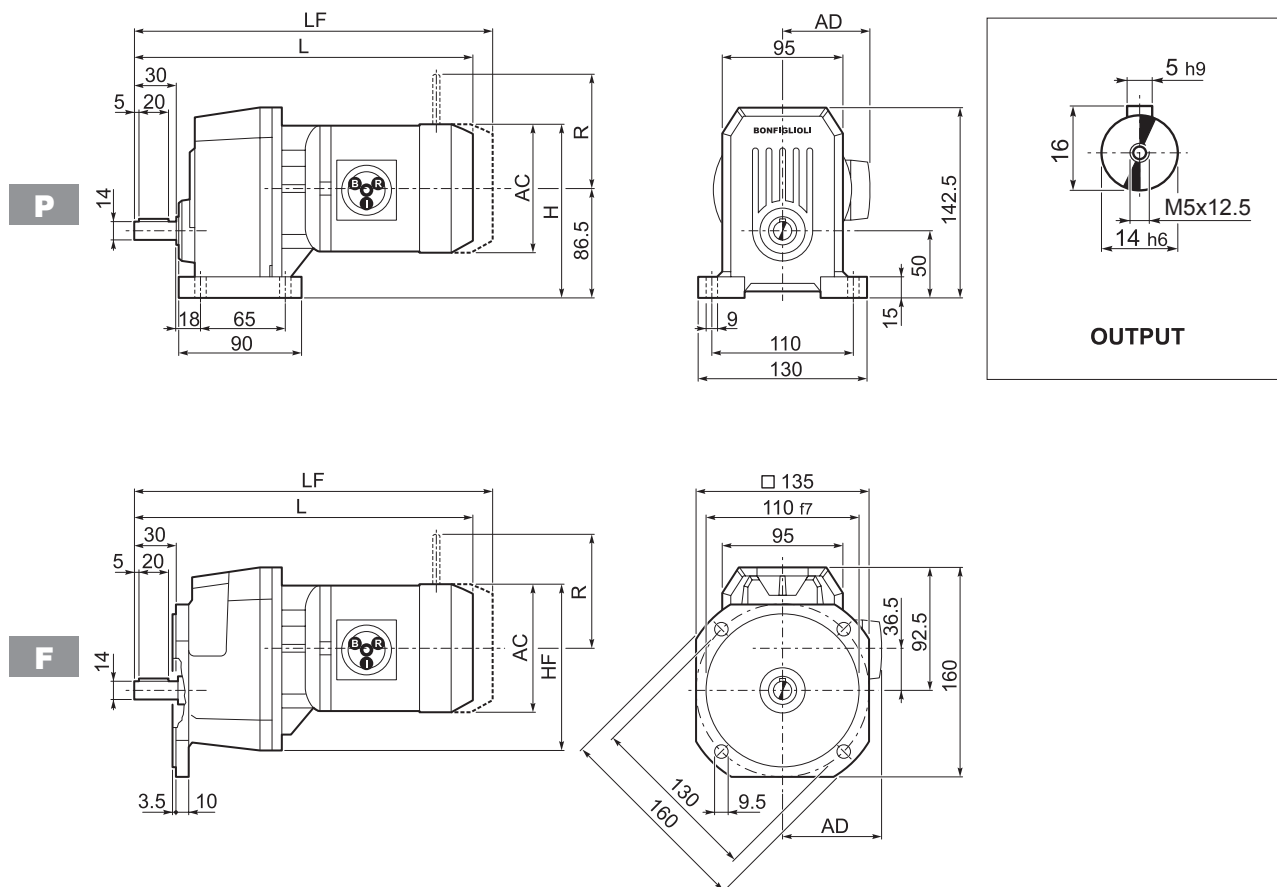
	i	J (•10 ⁻⁴) [kgm ²]										
			IEC									
			63	71	80	90	100	112	132	160	180	
S 50 1_1.4	1.4	8.2	—	—	11	11	12	12	27	86	84	19
S 50 1_1.8	1.8	5.9	—	—	8.8	8.7	10	10	25	84	82	16
S 50 1_2.4	2.4	3.9	—	—	6.8	6.7	8.0	8.0	23	82	80	14
S 50 1_3.0	3.0	2.7	—	—	5.5	5.5	6.8	6.8	22	81	79	13
S 50 1_3.8	3.8	1.9	3.3	3.3	4.7	4.6	5.9	5.9	21	80	78	12
S 50 1_4.8	4.8	1.4	2.8	2.8	4.2	4.1	5.4	5.4	21	79	77	12
S 50 1_6.1	6.1	0.89	2.4	2.4	3.7	3.7	5.0	5.0	21	79	77	11
S 50 1_7.4	7.4	0.63	2.1	2.1	3.5	3.4	4.7	4.7	20	79	77	11
S 50 1_8.8	8.8	0.50	2.0	2.0	3.4	3.3	4.6	4.6	—	—	—	11
S 50 1_10.5	10.5	0.36	1.8	1.8	3.2	3.1	4.4	4.4	—	—	—	11
S 50 1_12.9	12.9	0.25	1.7	1.7	3.1	3.0	4.3	4.3	—	—	—	11



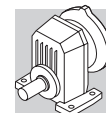


78 DIMENSIONES

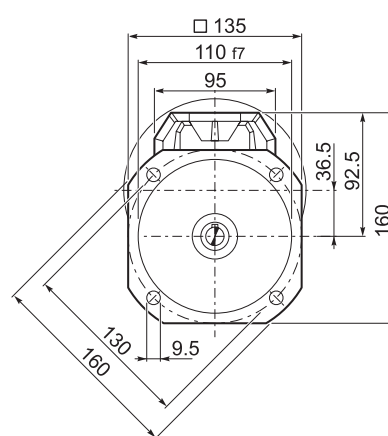
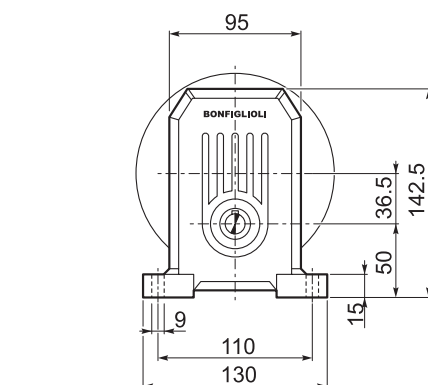
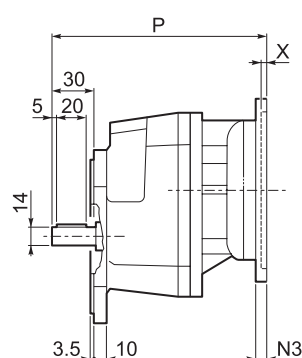
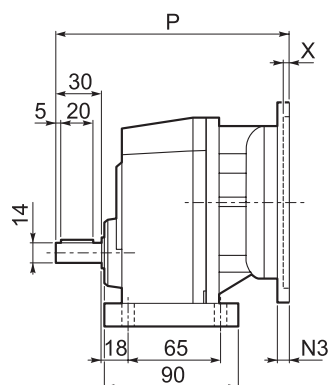
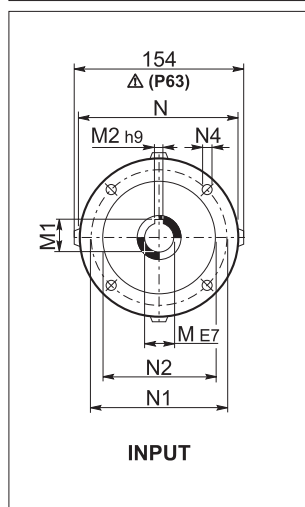
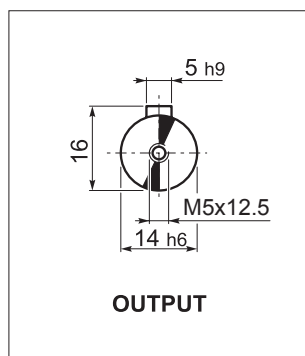
S 10...M



									M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD		LF		R	AD	R	AD
S 10 1	S05	M05	121	147	143	315	95	8	381	11	96	122	116	95
S 10 1	S1	M1	137	155	151	344	102	10	405	13	103	135	124	108
S 10 1	S2	M2S	156	164	160	367	111	13	443	17	129	146	134	119
S 10 1	S3	M3S	195	184	180	416	135	19	512	24	160	158	160	142
S 10 1	S3	M3L	195	184	180	448	135	21	539	26	160	158	160	142

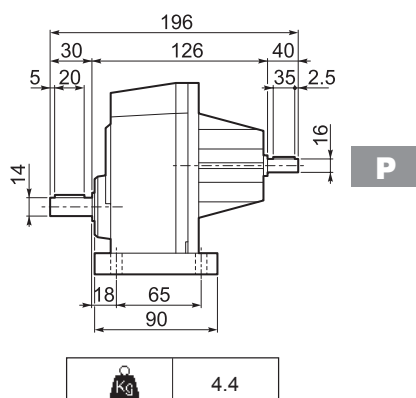
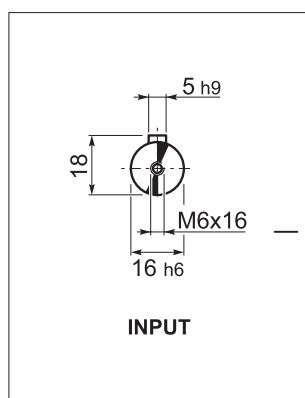


S 10...P (IEC)

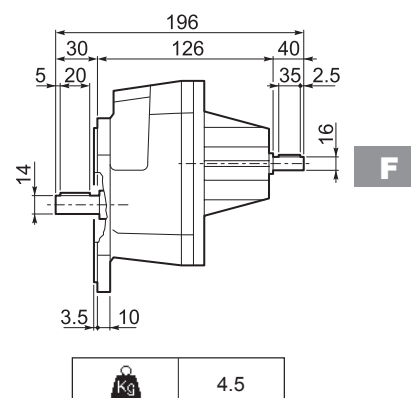


		M	M1	M2	N	N1	N2	N3	N4	P	X	Kg
S 10 1	P63	11	12.8	4	140	115	95	—	M8x10	189	4	5
S 10 1	P71	14	16.3	5	160	130	110	—	M8x10	189	4.5	5
S 10 1	P80	19	21.8	6	200	165	130	—	M10x14.5	208	4	6
S 10 1	P90	24	27.3	8	200	165	130	—	M10x14.5	208	4	6
S 10 1	P100	28	31.3	8	250	215	180	—	M12x16	218	4.5	10
S 10 1	P112	28	31.3	8	250	215	180	—	M12x16	218	4.5	10

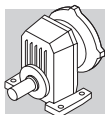
S 10...HS



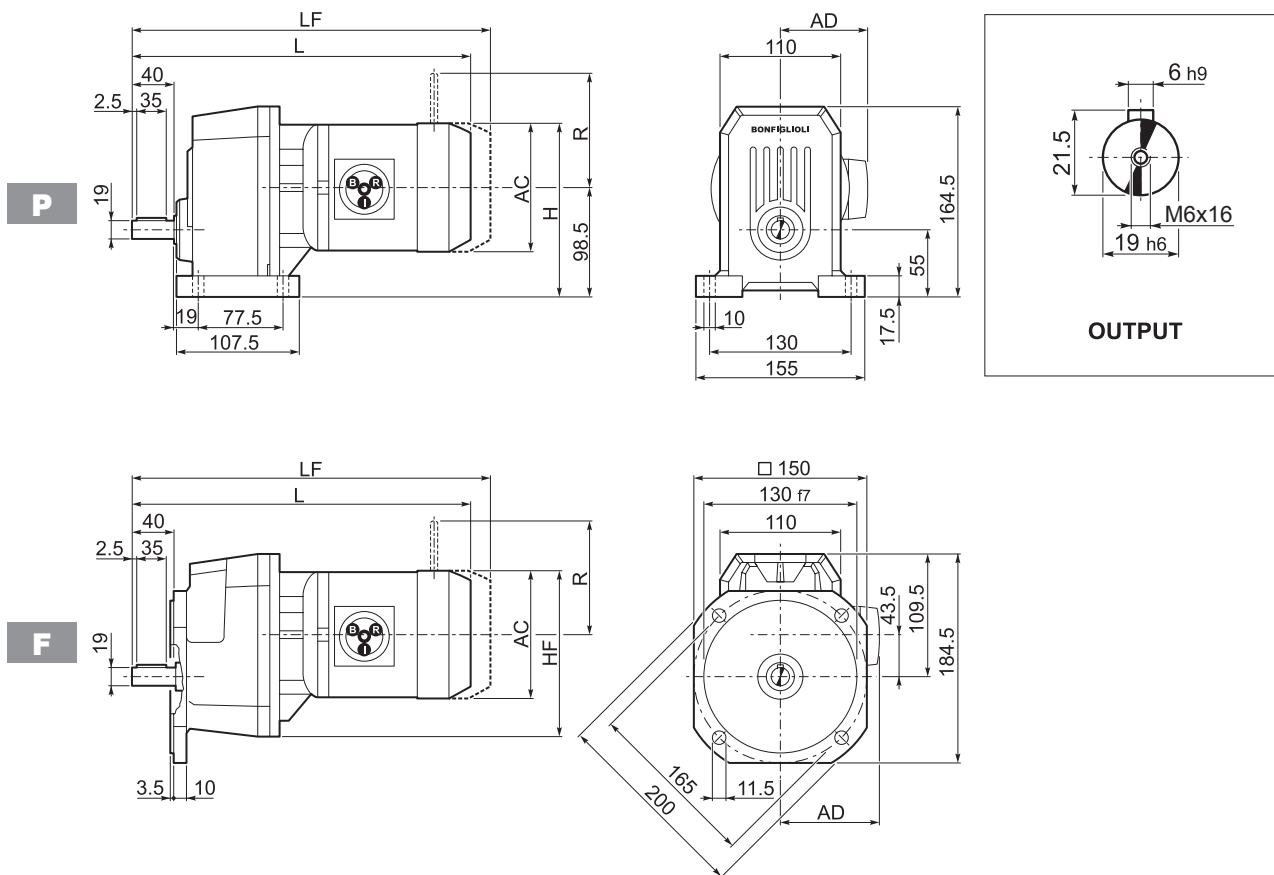
Kg	4.4
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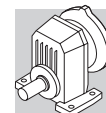
Kg	4.5
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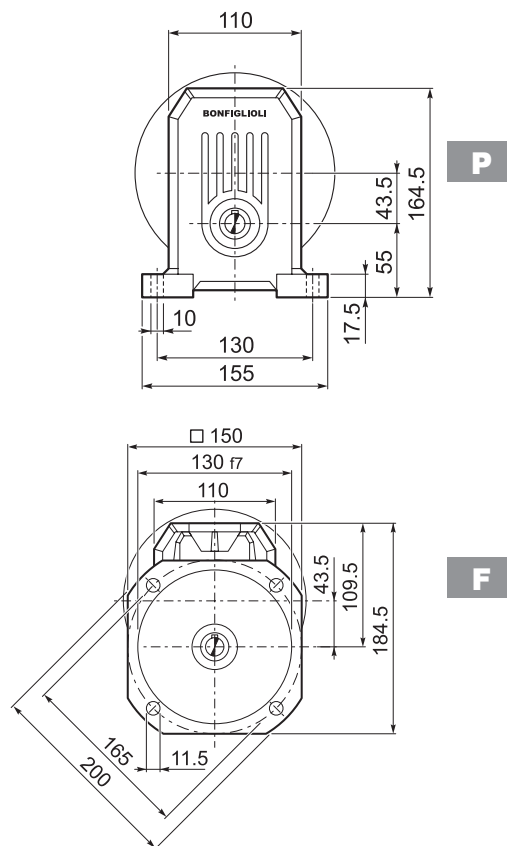
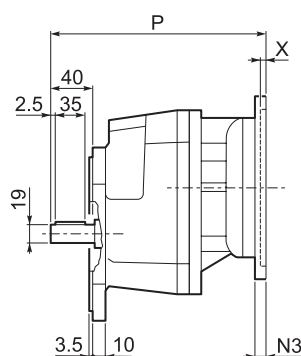
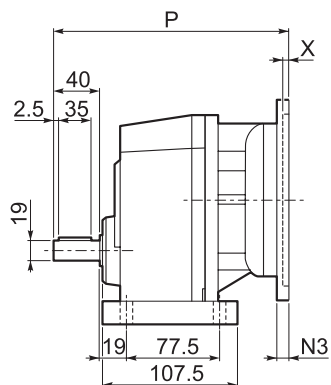
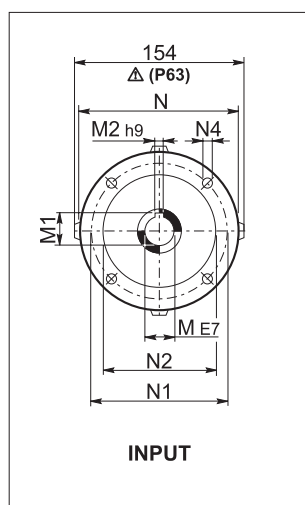
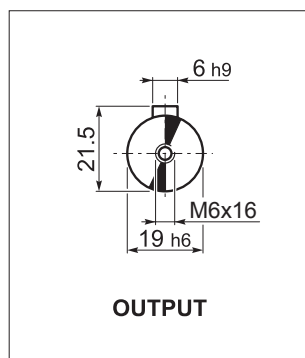
S 20...M



										M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	AD			LF		R	AD	R	AD
S 20 1	S05	M05	121	159	153	333.5	95	10		399.5	12	96	122	116	95
S 20 1	S1	M1	137	167	161	362.5	102	12		423.5	14	103	135	124	108
S 20 1	S2	M2S	156	176	170	385.5	111	16		461.5	19	129	146	134	119
S 20 1	S3	M3S	195	196	190	434.5	135	20		530.5	25	160	158	160	142
S 20 1	S3	M3L	195	196	190	466.5	135	26		557.5	31	160	158	160	142

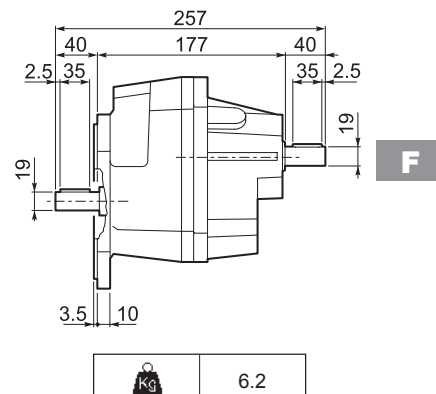
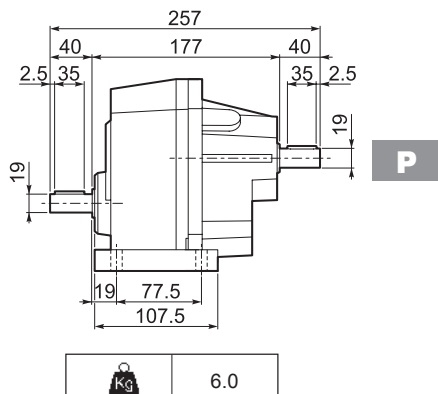
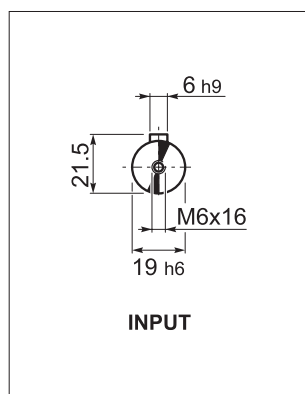


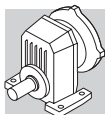
S 20...P(IEC)



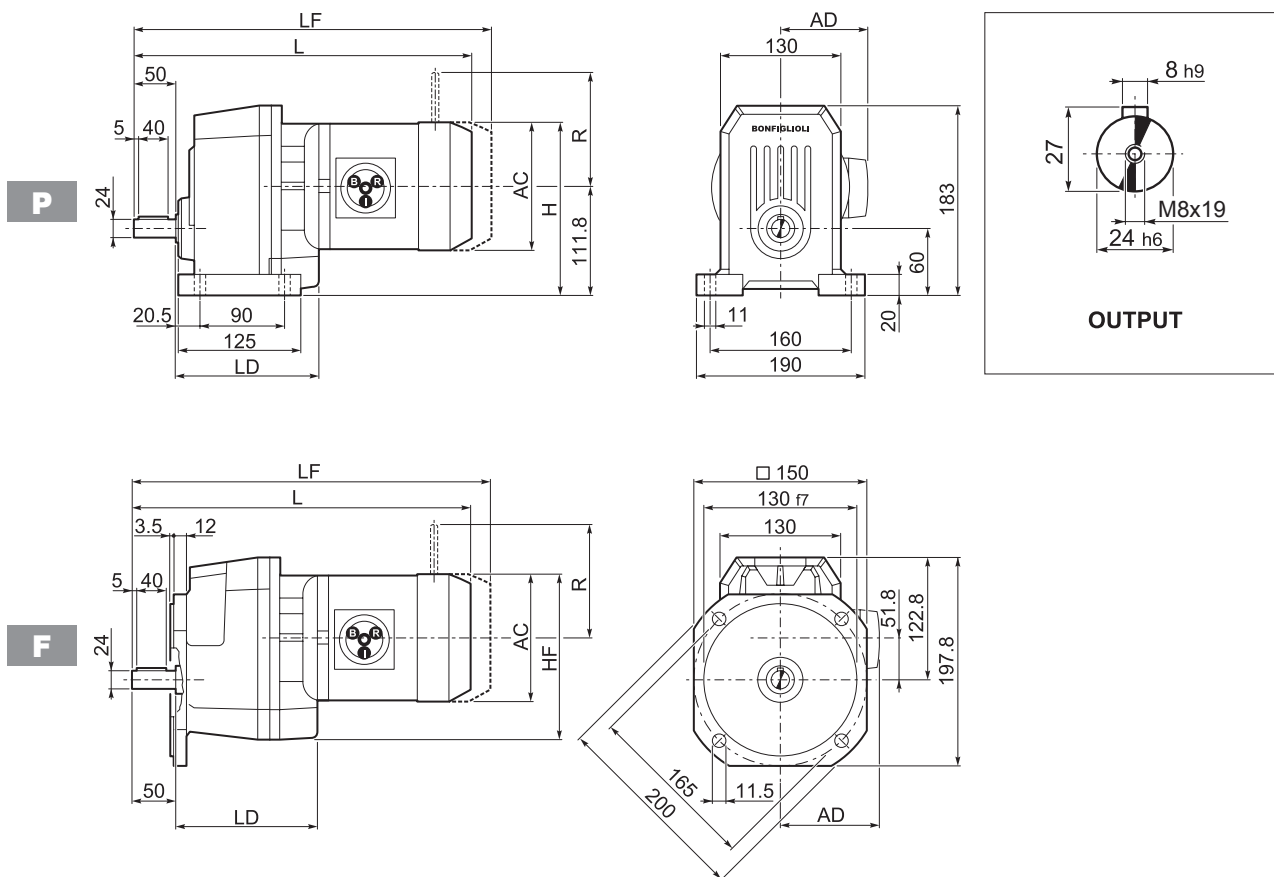
		M	M1	M2	N	N1	N2	N3	N4	P	X	Kg
S 20 1	P63	11	12.8	4	140	115	95	—	M8x10	207	4	6
S 20 1	P71	14	16.3	5	160	130	110	—	M8x10	207	4.5	6
S 20 1	P80	19	21.8	6	200	165	130	—	M10x14.5	227	4	7
S 20 1	P90	24	27.3	8	200	165	130	—	M10x14.5	227	4	7
S 20 1	P100	28	31.3	8	250	215	180	—	M12x16	237	4.5	11
S 20 1	P112	28	31.3	8	250	215	180	—	M12x16	237	4.5	11

S 20...HS

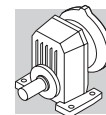




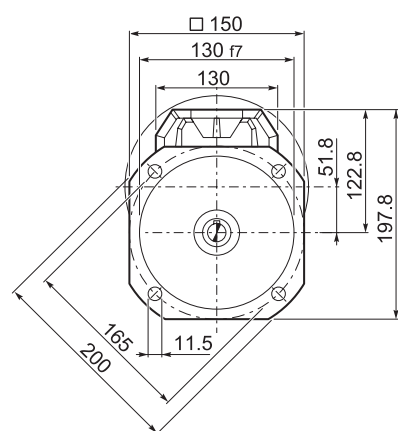
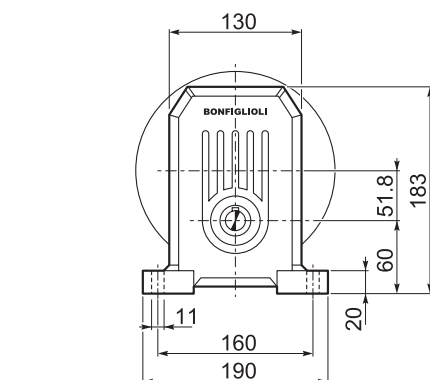
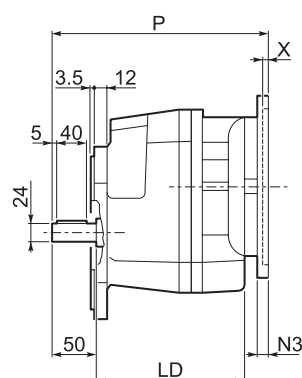
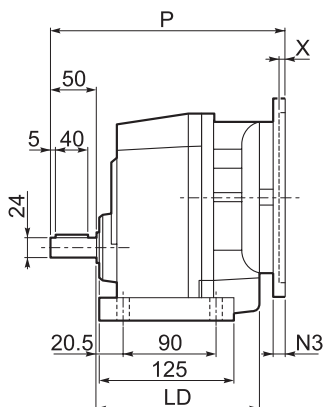
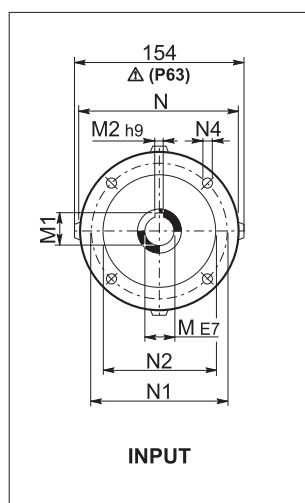
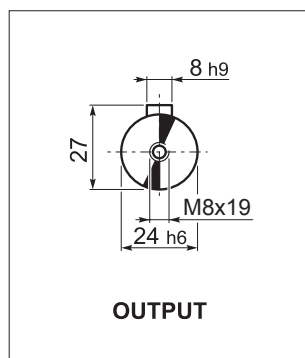
S 30...M



										M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	LD	AD		LF		R	AD	R	AD
S 30 1	S1	M1	137	180	177	387.5	140.5	102	14	448.5	16	103	135	124	108
S 30 1	S2	M2S	156	190	186	410.5	152.5	111	18	486.5	21	129	146	134	119
S 30 1	S3	M3S	195	209	206	459.5	162.5	135	23	555.5	28	160	158	160	142
S 30 1	S3	M3L	195	209	206	491.5	162.5	135	32	582.5	37	160	158	160	142
S 30 1	S4	M4	258	240.8	237	599.5	—	193	71	708.5	87	226	210	217	193
S 30 1	S4	M4LC	258	240.8	237	634.5	—	193	79	733.5	95	226	210	217	193



S 30...P(IEC)

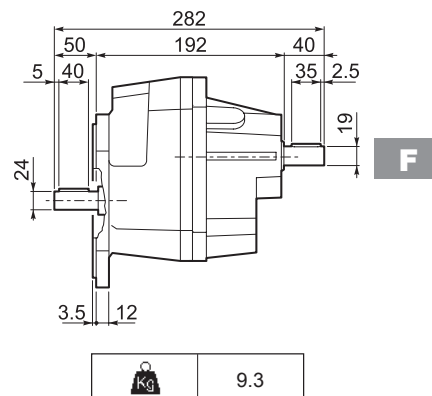
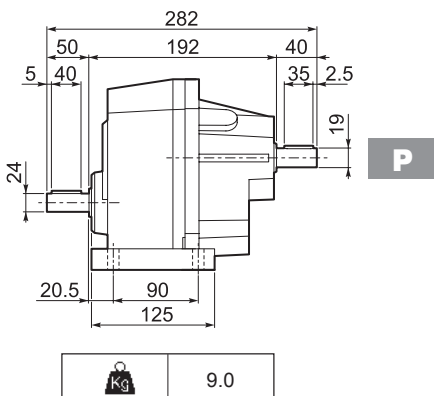
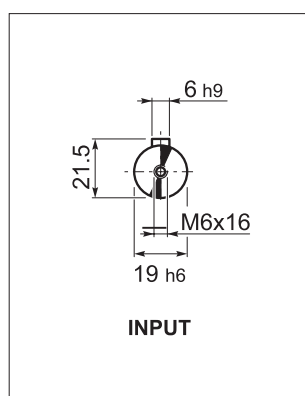


P

F

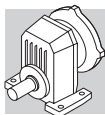
		LD	M	M1	M2	N	N1	N2	N3	N4	P	X	Kg
S 30 1	P63	152.5	11	12.8	4	140	115	95	—	M8x10	232	4	8
S 30 1	P71	152.5	14	16.3	5	160	130	110	—	M8x10	232	4.5	8
S 30 1	P80	162.5	19	21.8	6	200	165	130	—	M10x14.5	252	4	9
S 30 1	P90	162.5	24	27.3	8	200	165	130	—	M10x14.5	252	4	9
S 30 1	P100	162.5	28	31.3	8	250	215	180	—	M12x16	262	4.5	13
S 30 1	P112	162.5	28	31.3	8	250	215	180	—	M12x16	262	4.5	13
S 30 1	P132	—	38	41.3	10	300	265	230	16	14	298.5	5	21

S 30...HS

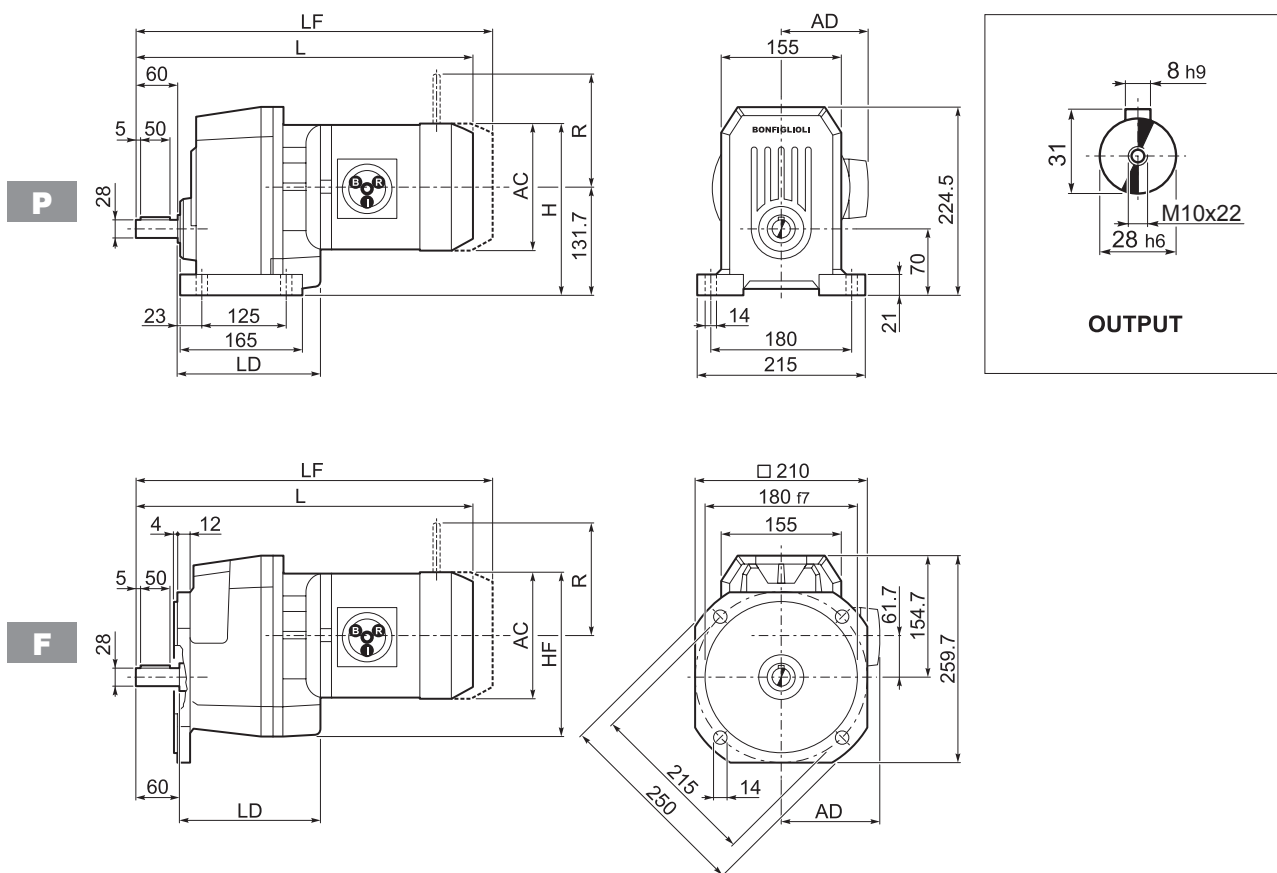


Kg	9.0
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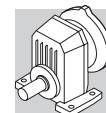
Kg	9.3
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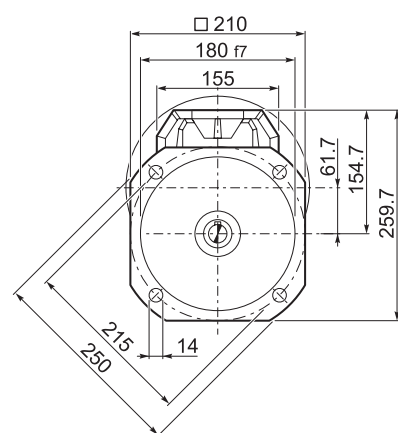
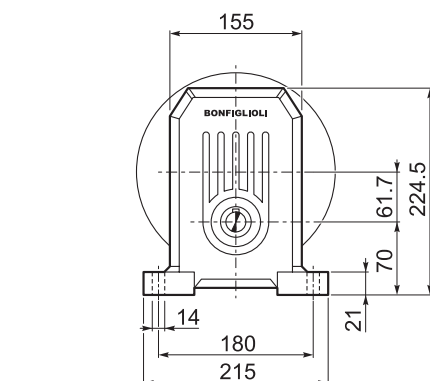
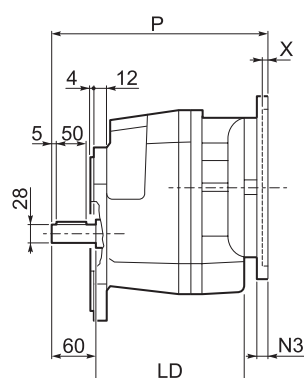
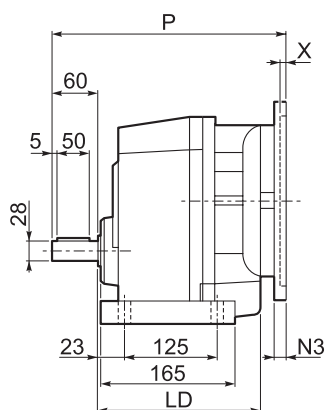
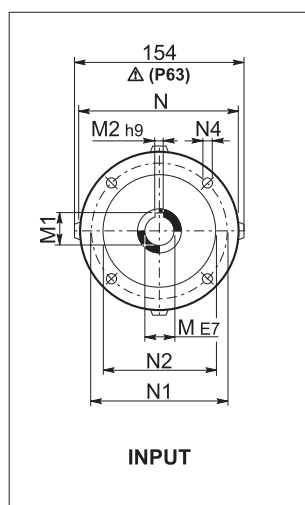
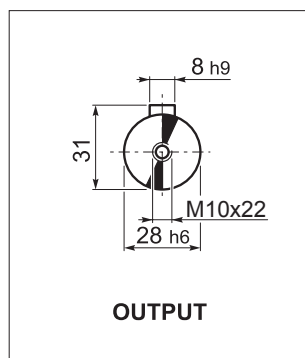
S 40...M



										M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	LD	AD		LF		R	AD	R	AD
S 40 1	S1	M1	137	200	197	429.5	168	102	28	490.5	31	103	135	124	108
S 40 1	S2	M2S	156	210	206	452.5	183.5	111	34	528.5	37	129	146	134	119
S 40 1	S3	M3S	195	229	226	501.5	199.5	135	39	597.5	44	160	158	160	142
S 40 1	S3	M3L	195	229	226	533.5	199.5	135	48	624.5	53	160	158	160	142
S 40 1	S4	M4	258	261	257	641.5	—	193	74	750.5	86	226	210	217	193
S 40 1	S4	M4LC	258	261	257	676.5	—	193	90	775.5	106	226	210	217	193



S 40...P(IEC)

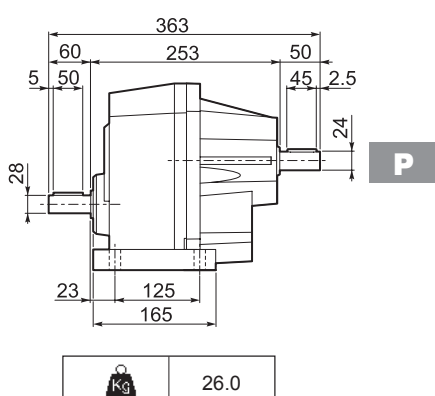
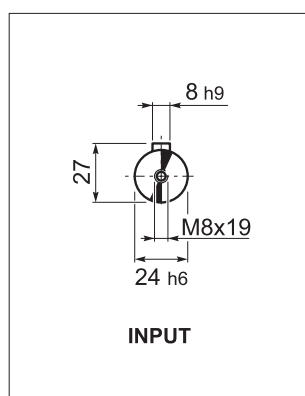


P

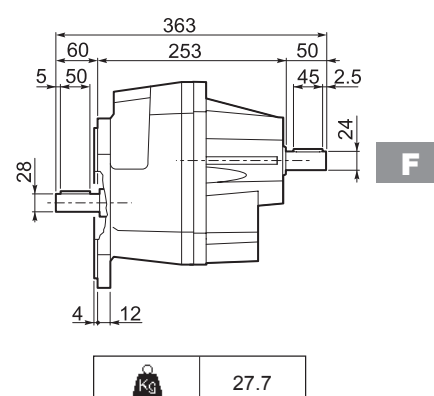
F

		LD	M	M1	M2	N	N1	N2	N3	N4	P	X	Kg
S 40 1	P63	183.5	11	12.8	4	140	115	95	—	M8x10	274	4	25
S 40 1	P71	183.5	14	16.3	5	160	130	110	—	M8x10	274	4.5	26
S 40 1	P80	199.5	19	21.8	6	200	165	130	—	M10x14.5	294	4	26
S 40 1	P90	199.5	24	27.3	8	200	165	130	—	M10x14.5	294	4	30
S 40 1	P100	—	28	31.3	8	250	215	180	—	M12x16	304	4.5	30
S 40 1	P112	—	28	31.3	8	250	215	180	—	M12x16	304	4.5	30
S 40 1	P132	—	38	41.3	10	300	265	230	16	14	340	5	32

S 40...HS



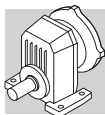
Kg	26.0
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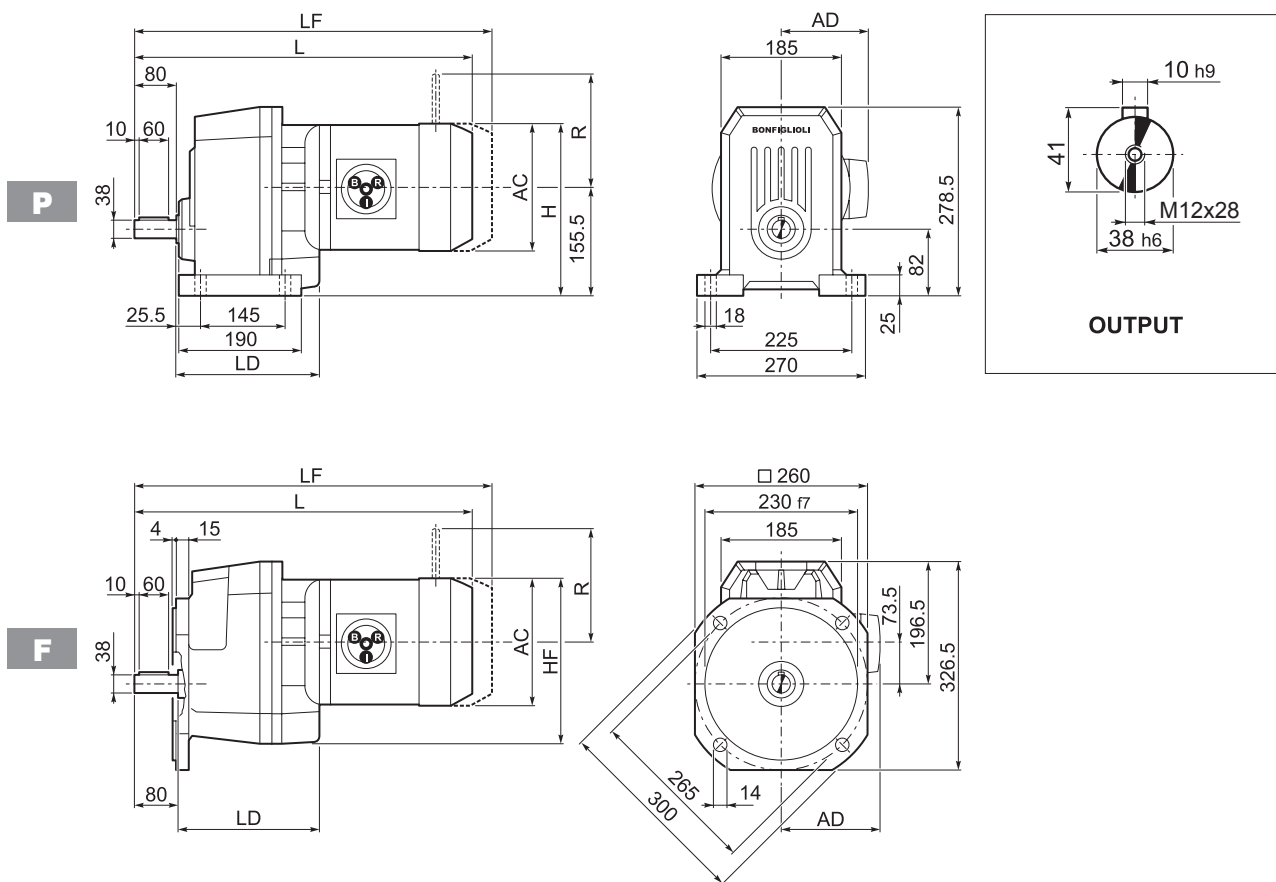
Kg	27.7
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P

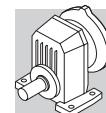
F



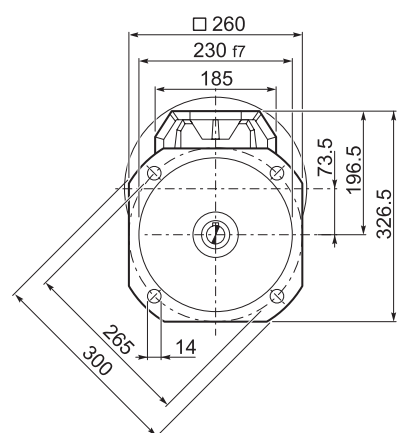
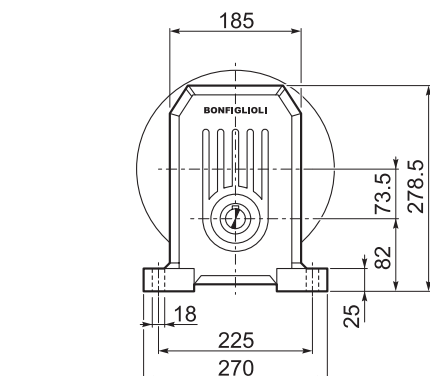
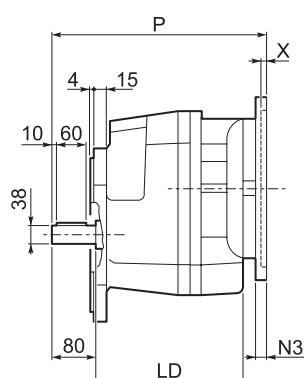
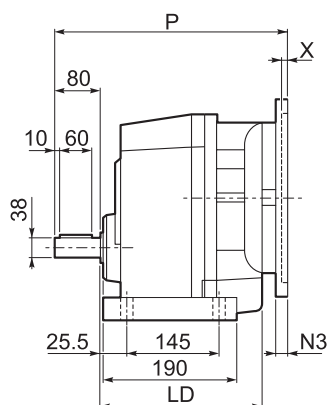
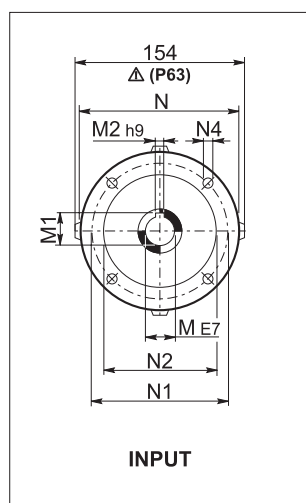
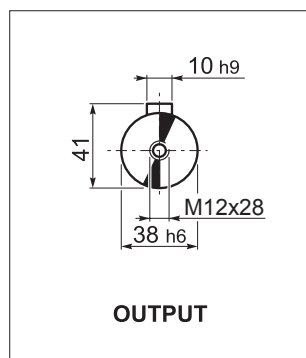
S 50...M



										M...FD M...FA		M...FD		M...FA	
			AC	H	HF	L	LD	AD		LF		R	AD	R	AD
S 50 1	S1	M1	137	225	222	469	—	102	40	530	42	103	135	124	108
S 50 1	S2	M2S	156	233	230	492.5	204.5	111	44	568.5	47	129	146	134	119
S 50 1	S3	M3S	195	253	250	541.5	219.5	135	51	637.5	56	160	158	160	142
S 50 1	S3	M3L	195	253	250	573.5	219.5	135	60	664.5	65	160	158	160	142
S 50 1	S4	M4	258	284	281	681.5	204.5	193	86	790.5	98	226	210	217	193
S 50 1	S4	M4LC	258	284	281	716.5	204.5	193	94	815.5	106	226	210	217	193
S 50 1	S5	M5S	310	310.5	307	768	—	245	114	908	138	266	245	247	245
S 50 1	S5	M5L	310	310.5	307	812	—	245	130	952	154	266	245	247	245

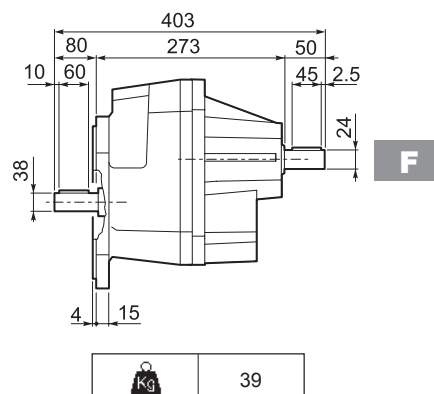
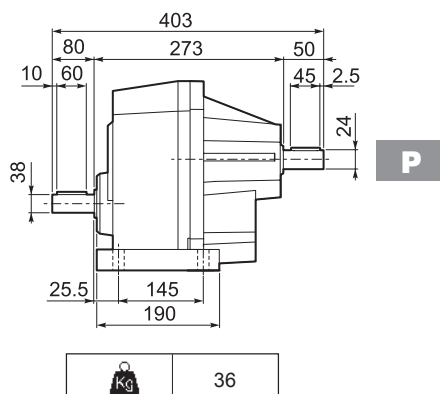
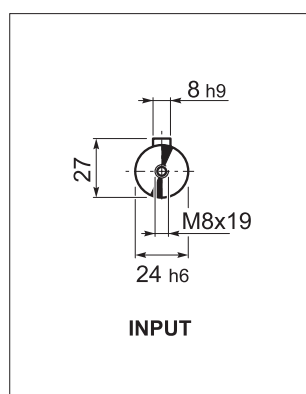


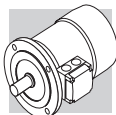
S 50...P(IEC)



		LD	M	M1	M2	N	N1	N2	N3	N4	P	X	Kg
S 50 1	P63	204.5	11	12.8	4	140	115	95	—	M8x10	314	4	35
S 50 1	P71	204.5	14	12.8	4	160	130	110	—	M8x10	314	4.5	35
S 50 1	P80	219.5	19	16.3	5	200	165	130	—	M10x14.5	314	4	37
S 50 1	P90	219.5	24	21.8	6	200	165	130	—	M10x14.5	334	4	37
S 50 1	P100	204.5	28	27.3	8	250	215	180	—	M12x16	344	4.5	41
S 50 1	P112	204.5	28	31.3	8	250	215	180	—	M12x16	344	4.5	41
S 50 1	P132	204.5	38	41.3	10	300	265	230	16	14	380	5	44
S 50 1	P160	—	42	45.3	12	350	300	250	23	18	431	5.5	48
S 50 1	P180	—	48	51.8	14	350	300	250	23	18	431	5.5	48

S 50...HS

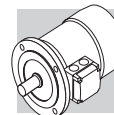




MOTORES ELÉCTRICOS

M1 SÍMBOLOS Y UNIDADES DE MEDIDA

Símbolos	Unidades de medida	Descripción	Símbolos	Unidades de medida	Descripción
$\cos\varphi$	—	Factor de potencia	n	$[\text{min}^{-1}]$	Velocidad nominal
η	—	Rendimiento	P_B	[W]	Potencia absorbida por el freno a 20°C
f_m	—	Factor corrector de la potencia	P_n	[kW]	Potencia nominal
I	—	Relación de intermitencia	P_r	[kW]	Potencia requerida
I_N	[A]	Intensidad nominal	t_1	[ms]	Retardo de desbloqueo del freno con alimentación de semionda
I_s	[A]	Intensidad de arranque	t_{1s}	[ms]	Tiempo de desbloqueo del freno con alimentación con control electrónico
J_C	[Kgm ²]	Momento de inercia de la carga	t_2	[ms]	Retardo de la frenada con desconexión lado c.a.
J_M	[Kgm ²]	Momento de inercia del motor	t_{2c}	[ms]	Retardo en la frenada con desconexión circuito c.a. y c.c.
K_C	—	Factor de par	t_a	[°C]	Temperatura ambiente
K_d	—	Factor de carga	t_f	[min]	Tiempo de funcionamiento con carga constante
K_J	—	Factor de inercia	t_r	[min]	Tiempo de reposo
M_A	[Nm]	Par de aceleración medio	W	[J]	Trabajo acumulado del freno entre dos operaciones de regulación del entrehierro.
M_B	[Nm]	Par de frenado	$W_{\max}$	[J]	Energía máxima por frenada
M_N	[Nm]	Par nominal	Z	[1/h]	Número de arranques admisibles con carga
M_L	[Nm]	Par resistente medio	Z_0	[1/h]	Número de arranques admisibles en vacío (I = 50 %)
M_s	[Nm]	Par de arranque			



M2 CARACTERÍSTICAS GENERALES

M2.1 Programa de producción

Los motores eléctricos asíncronos trifásicos del programa de producción de BONFIGLIOLI RIDUTTORI están previstos en las formas constructivas básicas IMB5 y sus derivadas. En el presente catálogo se destacan, además, las características técnicas de los motores en la versión integrada, tipo M.

M2.2 Normativa

Los motores descritos en el presente catálogo están fabricados de acuerdo con las Normas y unificaciones aplicables y relacionadas en la tabla siguiente.

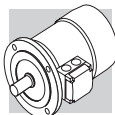
(F 1)

Título	CEI	IEC
Requisitos generales para máquinas eléctricas rotativas	CEI EN 60034-1	IEC 60034-1
Identificación de terminales y sentido de giro para máquinas eléctricas rotativas	CEI 2-8	IEC 60034-8
Métodos de refrigeración de las máquinas eléctricas	CEI EN 60034-6	IEC 60034-6
Dimensiones y potencias nominales para máquinas eléctricas rotativas	EN 50347	IEC 60072
Clasificación de los grados de protección de las máquinas eléctricas rotativas	CEI EN 60034-5	IEC 60034-5
Límites de rumorosidad	CEI EN 60034-9	IEC 60034-9
Siglas de identificación de las formas constructivas y de los tipos de las instalaciones	CEI EN 60034-7	IEC 60034-7
Tensión nominal para los sistemas de distribución pública de la energía eléctrica de baja tensión	CEI 8-6	IEC 60038
Grado de vibración de las máquinas eléctricas	CEI EN 60034-14	IEC 60034-14

Los motores cumplen, además, las normas extranjeras adaptadas a las IEC 60034 -31 indicadas en la tabla.

(F 2)

DIN VDE 0530	Alemania
BS5000 / BS4999	Gran Bretaña
AS 1359	Australia
NBNC 51 - 101	Bélgica
NEK - IEC 34	Noruega
NF C 51	Francia
OEVE M 10	Austria
SEV 3009	Suiza
NEN 3173	Holanda
SS 426 01 01	Suecia



M2.3 Motores para Usa y Canada

CUS

La opción CUS está disponible por los motores BN en la ejecución NEMA Diseño C (para las características eléctricas).

Los motores son certificados conforme a la norma CSA (Canadian Standard) C22.2 N° 100 y UL (Underwriters Laboratory) UL1004-1, vienen indicados en el file UL E308649.

La placa de características de los motores BN viene marcada con los símbolos indicados a continuación:



NOTA:

1. A partir del **01/06/2016** los motores CUS con eficiencia menor de IE3 (es decir, "Eficiencia Premium") no pueden ser comercializados en los USA y Canadá a menos que no se aplican una o más de las siguientes condiciones:

- Motores de doble polaridad;
- Motores con placa de características para funcionamiento intermitente (<80%);
- Motores destinados a funcionar sólo a través de un variador de frecuencia (adecuadamente equipados con etiqueta "Inverter Duty Only" o similar).

La opción CUS, es incompatible con los motores que incorporan ventilación independiente.

La tensión de las redes eléctricas americanas y la correspondiente tensión nominal que se debe especificar para el motor, están indicadas en la tabla siguiente.

(F 3)

Frecuencia	Tensión de la red	V _{mot}
60 Hz	208 V	200 V
	240 V	230 V
	480 V	460 V
	600 V	575 V

La opción CUS es aplicable también a los motores de 50 Hz.

Los motores con relación de voltaje 2 (230/460-60; 220/440-60) tienen de serie 9 terminales.

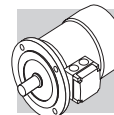
Para las mismas ejecuciones y con alimentación 575V-60Hz, la potencia de la placa corresponde a la normalizada a 50Hz.

Para los motores con freno en c.c. tipo BN_FD la alimentación del rectificador se realiza a través de la caja de bornes del motor con tensión 230V corriente alterna monofásica.

Para los motores con freno **la alimentación del freno** se realiza del siguiente modo:

(F 4)

BN_FD M_FD	BN_FA M_FA	Especificar
De caja de bornes motor 1~230V c.a.	Alimentación independiente 230V Δ	230SA
	Alimentación independiente 460V Y	460SA



M2.4 China Compulsory Certification

CCC

Los motores eléctricos destinados a ser comercializados en la Republica Popular China están afectados por la aplicación del sistema de certificación CCC (China Compulsory Certification) y motores BN con par nominal hasta 7 Nm están disponibles con certificación CCC y tarjeta especial que incluye la marca abajo indicada.



La opción ccc no está disponible para servo - motores ventilados.

M2.5 Directivas 2006/95/CE (LVD) y 2004/108/CE (EMC)

Los motores de las series BN y M cumplen los requisitos de las Directivas 2006/95/CE (Directiva de Baja Tensión) y 2004/108/CE (Directiva de Compatibilidad Electromagnética). En sus placas muestran el sello CE.

Por lo que se refiere a la Directiva EMC, la construcción de estos motores es conforme a las Normas CEI EN 60034-1, EN 61000-6-2, EN 61000-6-4.

Los motores con freno de c.c. FD, si están equipados con el correspondiente filtro capacitativo en la entrada del rectificador (opción **CF**), cumplen con los límites de emisión previstas en la Norma EN 61000-6-3:2007 "Compatibilidad electromagnética – Norma Genérica sobre emisiones – Parte 6-3: Ambientes residenciales, comerciales y de la industria ligera". Los motores cumplen, además, los requisitos de la Norma CEI EN 60204-1 "Equipamiento eléctrico de las máquinas".

Es responsabilidad del fabricante o del montador de la instalación que incorpora los motores como componentes, garantizar la seguridad y la conformidad del producto final a las directivas.

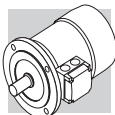
M2.6 Tolerancias

Según la Norma CEI EN 60034-1, las tolerancias admitidas para los tamaños garantizados, están indicadas en la tabla siguiente.

(F 5)

-0.15 (1 - η) $P \leq 50\text{kW}$	Rendimiento
$-(1 - \cos\phi)/6$ min 0.02 max 0.07	Factor de potencia
$\pm 20\%$ *	Deslizamiento
+20%	Intensidad con rotor bloqueado
-15% +25%	Par con rotor bloqueado
-10%	Par máximo

* $\pm 30\%$ para motores con $P_n < 1\text{ kW}$



M3 CARACTERÍSTICAS MECÁNICAS

M3.1 Formas constructivas

Los motores serie BN están previstos en las formas constructivas indicadas en la tabla (F6) según la Norma CEI EN 60034-14.

Las formas constructivas son las siguientes:

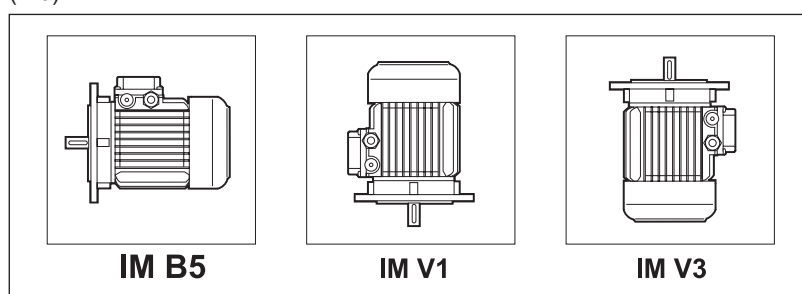
IM B5 (base)

IM V1, IM V3 (variante)

Los motores de forma constructiva IM B5 pueden instalarse en las posiciones IMV1y IMV3; en estos casos, en la placa del motor se indicará la forma constructiva base IM B5.

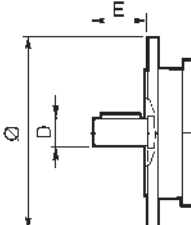
En las formas constructivas donde el motor está en posición vertical con el eje hacia abajo, se aconseja solicitar el sombrerete antilluvia (se tiene que prever siempre en el caso de motores- freno). Estas ejecuciones se tienen que pedir expresamente en el pedido, ya que no están previstas en la opción base.

(F 6)

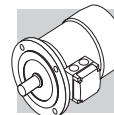


Los motores embridados pueden suministrarse con dimensiones de acoplamiento reducido, como queda indicado en la tabla - ejecuciones **B5R**. Su uso en combinación con los reductores debe ser coherente teniendo en cuenta la máxima potencia instalable en los mismos (ver apartado "Predisposiciones motor"). En el caso de que no se cumpla esta condición deberá contactar con el Servicio Técnico para comprobar la combinación.

(F 7)

						
	BN 71	BN 80	BN 90	BN 100	BN 112	BN 132
	DxE - Ø					
B5R ⁽¹⁾	11x23 - 140	14x30 - 160	19x40 - 200	24x50 - 200	24x50 - 200	28x60 - 250

(1) brida con taladros pasantes



M3.2 Grado de protección

IP..

La tabla de abajo resume la disponibilidad de los varios grados de protección. Independientemente del grado de protección especificado, para la instalación al aire libre, los motores deberán estar protegidos de las irradiaciones directas y, en el caso de instalación con el eje mirando hacia abajo, es necesario especificar, además, el sombrerete de protección contra la entrada de agua y cuerpos sólidos (opción **RC**)

(F 8)

		IP 54	IP 55	IP 56
BN	M		standard	 bajo pedido
BN_FD BN_FA	M_FD M_FA	standard	 bajo pedido	

M3.3 Ventilación

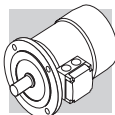
Los motores están refrigerados mediante ventilación externa (C 411 según CEI EN 60034-6) y están provistos de un ventilador radial de plástico que actúa en ambos sentidos de giro. En la instalación debe asegurarse una distancia mínima entre la tapa del ventilador y la pared, de modo que no exista impedimento a la libre circulación del aire y permitir la posibilidad del mantenimiento y, si éste está, del freno. Opcionalmente puede suministrarse la ventilación forzada independiente (opción U1). Esta solución permite aumentar el factor de utilización del motor, accionado con variador de frecuencia y a velocidad reducida.

M3.4 Sentido de giro

Es posible el funcionamiento en ambos sentidos de giro. Conectando los bornes U1, V1, W1 a las fases de línea L1, L2, L3, el giro será en sentido horario visto por el lado del acoplamiento; el sentido de giro antihorario se obtiene invirtiendo dos de las fases.

M3.5 Rumorosity

Los valores de nivel sonoro, medidos en conformidad con el procedimiento previsto por las Normas ISO 1680, están contenidos dentro de los límites máximos previstos por las Normas CEI EN 60034-9.



M3.6 Vibraciones y equilibrado

Todos los rotores están equilibrados con media chaveta y están dentro de los límites de intensidad de vibración previstos por la Norma CEI EN 60034-14. Para exigencias particulares de baja rumorosidad, opcionalmente, está disponible una ejecución antivibrante de grado reducido B. La tabla siguiente indica los valores de velocidad eficaz de vibración para un equilibrado estándar (A) e incrementada (B).

(F 9)

Grado de vibración	Velocidad de giro n [min ⁻¹]	Límites de la velocidad de vibración [mm/s] BN 56 ≤ H ≤ BN 200 M05 ≤ H ≤ M5
A	600 < n < 3600	1.6
B	600 < n < 3600	0.70

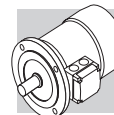
Los valores están referidos a la medición efectuada con el motor libremente suspendido y funcionamiento en vacío.

M3.7 Caja de conexiones del motor

La caja de conexiones principal contiene seis bornes para conexionado con terminales de cable (ejecución a nueve bornes para la tensión de los Estados Unidos "Dual Voltage"). En el interior de la caja está previsto un borne para el conductor de tierra. Las dimensiones de los terminales están indicadas en la tabla siguiente. Para la alimentación del freno ver párrafo M6 (freno FD), M7 (freno FA). En los motores freno, el rectificador para la alimentación del freno está situado en el interior de la caja de bornes y provisto de los bornes adecuados para su conexionado. Efectuar el conexionado según los esquemas incluidos en el interior de la caja de bornes o en el manual de instrucciones.

(F 10)

		Nº terminales	Rosca de los terminales	Sección máx. del conductor mm ²
BN 56 ... BN 71	M05, M1	6	M4	2.5
BN 80, BN 90	M2	6	M4	2.5
BN 100 ... BN 112	M3	6	M5	6
BN 132 ... BN 160MR	M4	6	M5	6
BN 160M ... BN 180M	M5	6	M6	16
BN 180L ... BN 200L	—	6	M8	25
BN 63 ... BN 160MR	M05 ... M4	9	M4	6
BN 160M ... BN 200L	M5	9	M6	16



M3.8 Entrada de cables

Respetando la Norma EN 50262, los taladros de entrada de cables en la caja de bornes están realizados con rosca métrica cuya medida se indica en la tabla siguiente.

(F 11)

		Entrada de cables	Diámetro máx. del cable [mm]
BN 63	M05	2 x M20 x 1.5	13
BN 71	M1	2 x M25 x 1.5	17
BN 80 - BN 90	M2	2 x M25 x 1.5	17
BN 100	M3	2 x M32 x 1.5	21
		2 x M25 x 1.5	17
BN 112	—	2 x M32 x 1.5	21
		2 x M25 x 1.5	17
BN 132...BN 160MR	M4	4 x M32 x 1.5	21
BN 160M...BN 200L	M5	2 x M40 x 1.5	28

M3.9 Rodamientos

Los rodamientos montados son del tipo radial a bolas, con lubricación permanente y precargados Axialmente. Los tipos utilizados se indican en la siguiente tabla. La duración nominal a fatiga L_{10h} de los rodamientos, en ausencia de cargas externas aplicadas, es superior a 40.000 horas, calculadas según ISO 281.

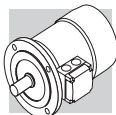
DE = lado eje **NDE** = lado ventilador

(F 12)

	DE	NDE	
	M, M_FD, M_FA	M	M_FD, M_FA
M05	6004 2Z C3	6201 2Z C3	6201 2RS C3
M1	6004 2Z C3	6202 2Z C3	6202 2RS C3
M2	6007 2Z C3	6204 2Z C3	6204 2RS C3
M3	6207 2Z C3	6206 2Z C3	6206 2RS C3
M4	6309 2Z C3	6308 2Z C3	6308 2RS C3
M5	6309 2Z C3	6309 2Z C3	6309 2RS C3

(F 13)

	DE	NDE	
	BN	BN	BN_FD BN_FA
BN 56	6201 2Z C3	6201 2Z C3	—
BN 63	6201 2Z C3	6201 2Z C3	6201 2RS C3
BN 71	6202 2Z C3	6202 2Z C3	6202 2RS C3
BN 80	6204 2Z C3	6204 2Z C3	6204 2RS C3
BN 90	6205 2Z C3	6205 2Z C3	6305 2RS C3
BN 100	6206 2Z C3	6206 2Z C3	6206 2RS C3
BN 112	6306 2Z C3	6306 2Z C3	6306 2RS C3
BN 132	6308 2Z C3	6308 2Z C3	6308 2RS C3
BN 160MR	6309 2Z C3	6308 2Z C3	6308 2RS C3
BN 160M/L	6309 2Z C3	6309 2Z C3	6309 2RS C3
BN 180M	6310 2Z C3	6309 2Z C3	6309 2RS C3
BN 180L	6310 2Z C3	6310 2Z C3	6310 2RS C3
BN 200L	6312 2Z C3	6310 2Z C3	6310 2RS C3



M4 CARACTERÍSTICAS ELÉCTRICAS

M4.1 Tensión

Los motores de velocidad individual se proporcionan en ejecución estándar para la tensión nominal 230/400 V Δ/Y , 50 Hz, o 400 / 690 V Δ/Y , 50 Hz, con una tolerancia de tensión de $\pm 10\%$, según se especifica en la siguiente tabla.

En todos los motores BN y M, la configuración de tensión del cual no está incluida en la tabla de debajo, la tolerancia se reduce a $\pm 5\%$.

Para un funcionamiento al límite de la tolerancia, la temperatura no debe superar en 10 K el límite previsto por la clase de aislamiento aprobado. El motor es adecuado para su funcionamiento en la red de distribución Europea, con la tensión que cumpla la norma IEC 60038.

(F 14)

			V_{mot} $\pm 10\%$ 3 ~	Ejecución
IE1	BN 56 ... BN 132	M0 ... M4	230 / 400 V - Δ/Y - 50 Hz	Estandar
			400 / 690 V - Δ/Y - 50 Hz	Opcional sin sobre precio
			460 V Y - 60 Hz	Estandar
	BN 160 ... 200	M5	400 / 690 V - Δ/Y - 50 Hz	Estandar
			460 V Δ - 60 Hz	Estandar

¹ Solo motores de 4 polos

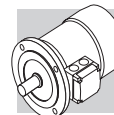
Los motores de dos velocidades 50Hz, están previstos para una tensión nominal estándar de 400V; tolerancia aplicable según Norma CEI EN 60034-1

En la tabla siguiente están indicados los distintos tipos de conexionado previstos para los motores en función de la polaridad.

(F 15)

Polos		Conexión del bobinado
2	BN 63 ... BN 200	$\Delta / Y^{(2)}$
4	BN 56 ... BN 200	
6	BN 63 ... BN 200	
8	BN 71 ... BN 132	
2/4	BN 63 ... BN 132	Δ / YY (Dahlander)
2/6	BN 71 ... BN 132	Y / Y (Doble bobinado)
2/8	BN 71 ... BN 132	
2/12	BN 80 ... BN 132	
4/6	BN 71 ... BN 132	
4/8	BN 80 ... BN 132	Δ / YY (Dahlander)

⁽²⁾ Los motores con relación de voltaje 2 (es. 230/460-60) estarán equipados con una conexión de terminales con 9 pines conectados $\Delta \Delta / \Delta$ o YY / Y (excepto el BN 63 6 polos Δ / Y)



M4.2 Frecuencia

La potencia de placa de los motores BN / M a 60Hz corresponde a la indicada en la tabla siguiente.

(F 16)

		P _n [kW]						P _n [kW]			
		2P	4P	6P	8P (*)			2P	4P	6P	8P (*)
BN 56A	—	—	0.07	—	—	BN 100L	M3LA	3.5	—	—	—
BN 56B	M0B	—	0.1	—	—	BN 100LA	—	—	2.5	1.8	0.9
BN 63A	M05A	0.21	0.14	0.1	—	BN 100LB	M3LB	4.7	3.5	2.2	1.3
BN 63B	M05B	0.3	0.21	0.14	—	BN 112M	—	4.7	4.7	2.5	1.8
BN 63C	M05C	0.45	0.3	—	—	—	M3LC	—	4.7	2.5	—
BN 71A	—	0.45	0.3	0.21	0.1	BN 132S	M4SA	—	6.5	3.5	2.5
—	M1SC	—	—	0.21	—	BN 132SA	—	6.5	—	—	—
BN 71B	M05SD	0.65	0.45	0.3	0.14	BN 132SB	M4SB	8.7	—	—	—
BN 71C	M1LA	0.9	0.65	0.45	—	BN 132M	M4LA	11	—	—	3.5
BN 80A	—	0.9	0.65	0.45	0.21	BN 132MA	—	—	8.7	4.7	—
BN 80B	M2SA	1.3	0.9	0.65	0.30	BN 132MB	M4LB	—	11	6.5	—
BN 80C	M2SB	1.8	1.3	0.9	—	BN 160MR	M4LC	12.5	12.5	—	—
BN 90S	—	—	1.3	0.9	0.45	BN 160M	M5SA	—	—	8.7	—
BN 90SA	—	1.8	—	—	—	BN 160MB	—	17.5	—	—	—
BN 90SB	—	2.2	—	—	—	—	M5SB	17.5	17.5	—	—
BN 90L	M3SA	2.5	—	1.3	0.65	BN 160L	—	21.5	17.5	12.5	—
BN 90LA	—	—	1.8	—	—	—	M5SC	21.5	—	—	—
BN 90LB	—	—	2.2	—	—	BN 180M	M5LA	24.5	21.5	—	—
						BN 180L	—	—	25.3	17.5	—
						BN 200L	—	—	34	—	—
						BN 200LA	—	34	—	22	—

(*) Excluidos los motores M_

Los motores BN / M de doble polaridad, alimentados a 60 Hz, tendran una potencia nominal superior, en comparacion a 50 Hz, del 15%.

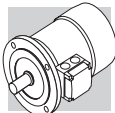
Cuando la etiqueta de un motor destinado a ser alimentado a 60 Hz, requiera un valor de potencia nominal de 50 Hz normalizado, deberá ser especificada la designacion PN.

Los motores que normalmente trabajan a 50 Hz, se pueden utilizar en redes de 60 Hz, pero los datos tendran que ser corregidos segun la siguiente tabla.

La etiqueta de los motores designados a 50 Hz incluye los valores de operación a 60 Hz (con exclusión de los motores en ejecución CUS y motores con freno). Consulte la siguiente tabla.

(F 17)

50 Hz	60 Hz			
V - 50 Hz	V - 60 Hz	P _n - 60 Hz	M _n , M _a /M _n - 60 Hz	n [min-1] - 60 Hz
230/400 Δ/Y	220 - 240 Δ	1	0.83	1.2
	380 - 415 Y			
400/690 Δ/Y	380 - 415 Δ	1.15	1	1.2
230/400 Δ/Y	265 - 280 Δ			
	440 - 480 Y			
400/690 Δ/Y	440 - 480 Δ			



M4.3 Temperatura ambiente

Las tablas de los datos técnicos del catálogo presentan las características funcionales a 50Hz en condiciones ambientales estándar, según la Norma CEI EN 60034-1 (temperatura 40°C y altitud < 1000 m s.n.m.). Los motores pueden emplearse a temperaturas comprendidas entre 40°C a 60°C aplicando las disminuciones de potencia indicadas en la tabla siguiente.

(F 18)

Temperatura ambiente (°C)	40°	45°	50°	55°	60°
Potencia admisible en % de la potencia nominal	100%	95%	90%	85%	80%

Cuando se precisa una disminución del motor superior del 15%, consultar con nuestro Servicio Técnico.

M4.4 Clase de aislamiento

CL F

Los motores de producción Bonfiglioli emplean, de serie, material aislante (hilo esmaltado, aislante, resina de impregnación) en clase **F**.

CL H

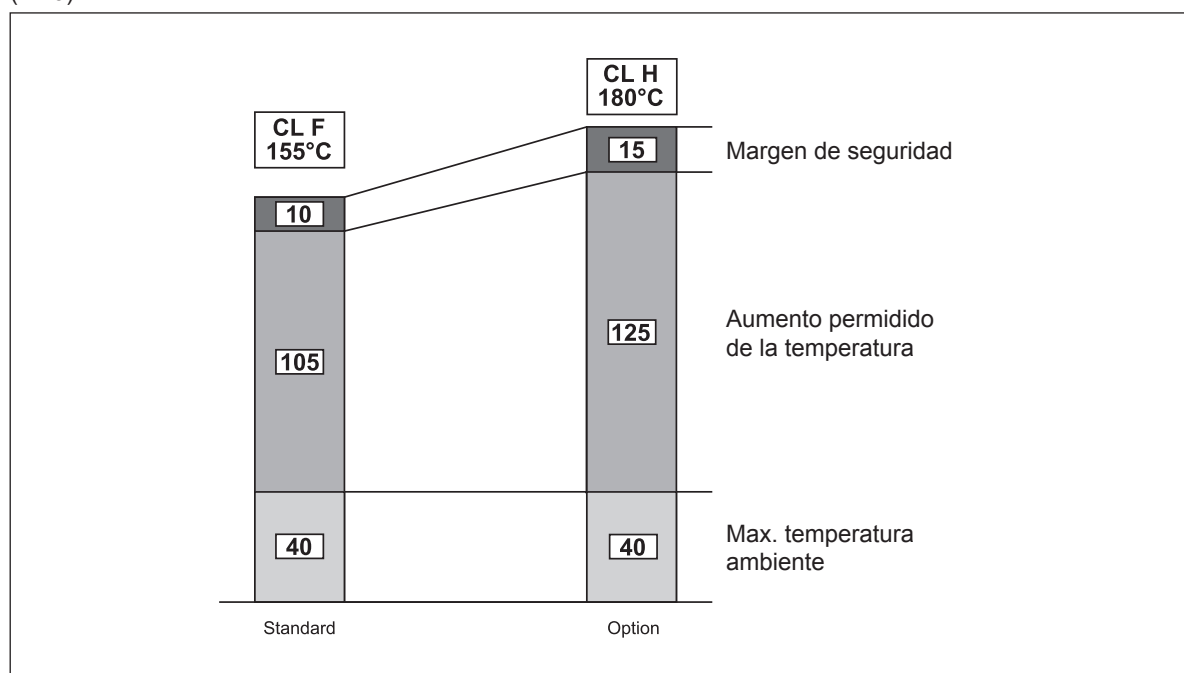
Bajo pedido puede suministrarse los motores con aislamiento clase **H**.

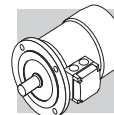
En general, para los motores de ejecución estándar, el aumento de temperatura en el bobinado del estator está comprendido dentro del límite de 80 K, correspondiente a la sobretensión de la clase B.

La cuidadosa selección de los componentes del sistema aislante, permite el empleo de los motores incluso en climas tropicales y en presencia de vibraciones normales.

Para aplicaciones en presencia de sustancias químicas agresivas o de elevada humedad, es aconsejable contactar con nuestro Servicio Técnico para seleccionar el producto más idóneo. No disponible para los motores conformes a las normas CSA y UL (opción CUS).

(F 19)





M4.5 Tipo de servicio

Si no se indica lo contrario, la potencia indicada en el catálogo se refiere al servicio continuo S1. Para los motores utilizados en condiciones distintas a S1 será necesario identificar el tipo de servicio previsto con referencia a las normas a CEI EN 60034-1. En concreto para servicio S2 y S3 es posible obtener un aumento de la potencia respecto a la prevista para servicio continuo según se indica en la siguiente tabla, válida para los motores de una sola velocidad.

Como alternativa al servicio continuo S1, en fase de configuración del producto es posible seleccionar uno de los siguientes valores: S2, S3 o S9; la placa del motor indicará una potencia aumentada en correspondencia al tipo de servicio, datos eléctricos y tipo de servicio S2-30min, S3-70% o S9, respectivamente. Para mayor información es necesario contactar con el Servicio Técnico de Bonfiglioli. Para el dimensionado de los motores de doble velocidad, consultar al Servicio Técnico de Bonfiglioli.

(F 20)

	Servicio						
	S2			S3 *			S4 - S9
	Duración del ciclo (min)			Relación de intermitencia (I)			Consultar
	10	30 (*)	60	25%	40%	70% (*)	
f _m	1.35	1.15	1.05	1.25	1.15	1.1	

* La duración del ciclo deberá ser igual o inferior a 10 minutos; si fuese superior consultar con nuestro Servicio Técnico.

(*) Valores predeterminados de las opciones

M4.5.1 Relación de intermitencia

$$I = \frac{t_f}{t_f + t_r} \cdot 100 \quad (23)$$

t_f = tiempo de funcionamiento con carga constante

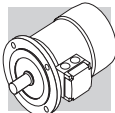
t_r = tiempo de reposo

M4.5.2 Servicio de duración limitada S2

Se caracteriza por el funcionamiento a carga constante, durante un periodo de tiempo limitado, inferior al requerido para alcanzar el equilibrio térmico, seguido de un periodo de reposo de duración suficiente para que restablezca, en el motor, la temperatura ambiente.

M4.5.3 Servicio intermitente periódico S3:

Caracterizado por una secuencia de ciclos idénticos de funcionamiento, cada uno de los cuales comprende un periodo de funcionamiento a carga constante y un periodo de reposo. En este servicio, la intensidad de arranque no influye significativamente en un aumento de la temperatura.



M4.6 Funcionamiento con variador de frecuencia

Los motores eléctricos de las series BN y M pueden ser utilizados alimentados con variador de frecuencia PWM, con tensión nominal en la entrada del variador de hasta 500V.

El sistema aislante de los motores de serie prevé el aislamiento de fase con separadores, la utilización de hilo esmaltado en grado 2 y resina de impregnación en clase H (límite de retención de la tensión punta a 1600V pico a pico enfrente de salida $t_s > 0.1\mu s$ en bornes del motor).

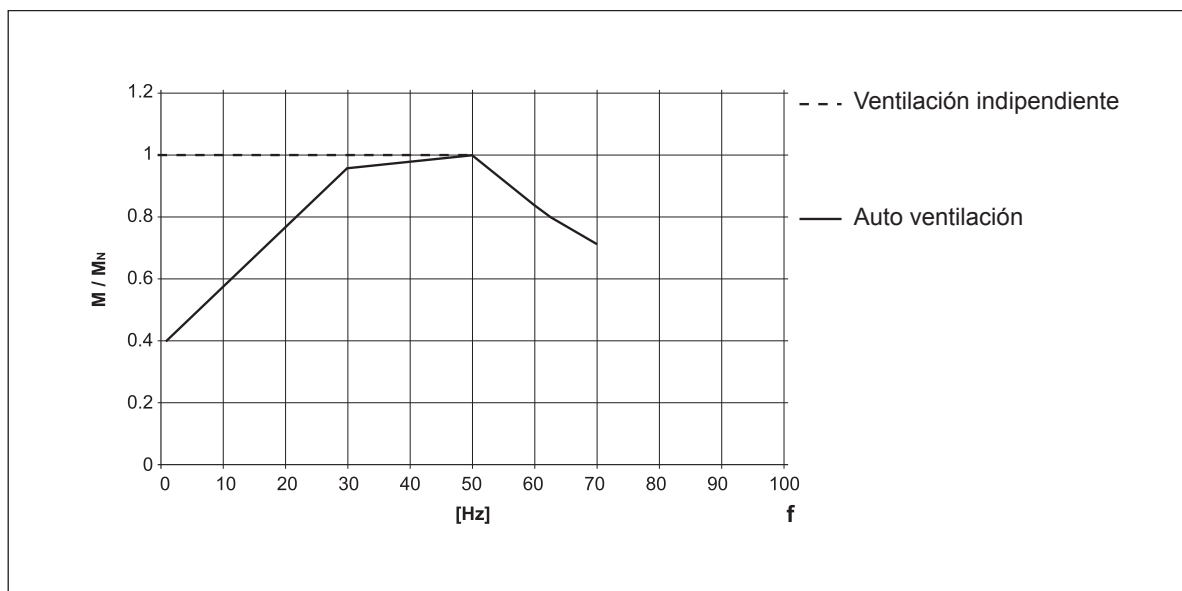
La siguiente tabla refleja las características típicas de par / velocidad, de los motores con una frecuencia base $f_b = 50\text{Hz}$ en servicio S1.

El funcionamiento con frecuencias inferiores a 30Hz, comporta la disminución del par en los motores estándar autoventilados (IC411) como resultado de la reducción originada en la ventilación, o bien como alternativa, utilizar ventilación independiente.

Para frecuencias superiores a la frecuencia base, y con la tensión máx. a la salida del variador, el motor trabaja en un campo de funcionamiento a potencia constante, en estas condiciones, el par en el eje del motor se reduce según la relación (f/f_b) .

Como el par máximo del motor decrece $(f/f_b)^2$, el margen de sobrecarga admisible deberá ser reducido gradualmente.

(F 21)



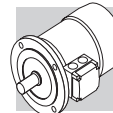
Para el funcionamiento a frecuencias superiores a la nominal, la velocidad límite mecánica de los motores se indica en la tabla siguiente.

(F 22)

		n [min ⁻¹]		
		2p	4p	6p
≤ BN 112	M05...M3	5200	4000	3000
≥ BN 132	M4, M5	4500	4000	3000

A velocidades superiores a la nominal, los motores presentan mayores vibraciones mecánicas y ruidos de la ventilación; en estas aplicaciones, es aconsejable el equilibrado del rotor con grado B y eventualmente montar ventilación independiente.

Los ventiladores independientes y los frenos electromagnéticos deben de alimentarse siempre directamente de la red.



M4.7 Frecuencia máxima de arranque Z

Las tablas de los datos técnicos de los motores indican la frecuencia máxima de arranque admisible en vacío Z_0 con $I = 50\%$ correspondiente a la versión de motor freno. Este valor define el número máx. de arranques / hora en vacío que el motor puede soportar sin superar la temperatura máxima admisible por el aislamiento clase F.

En la práctica, para un motor acoplado a una carga externa con potencia absorbida P_r , inercia J_c , un par resistente durante el arranque M_L , el número de arranques admisibles se puede calcular con la siguiente fórmula:

$$Z = \frac{Z_0 \cdot K_c \cdot K_d}{K_J} \quad (24)$$

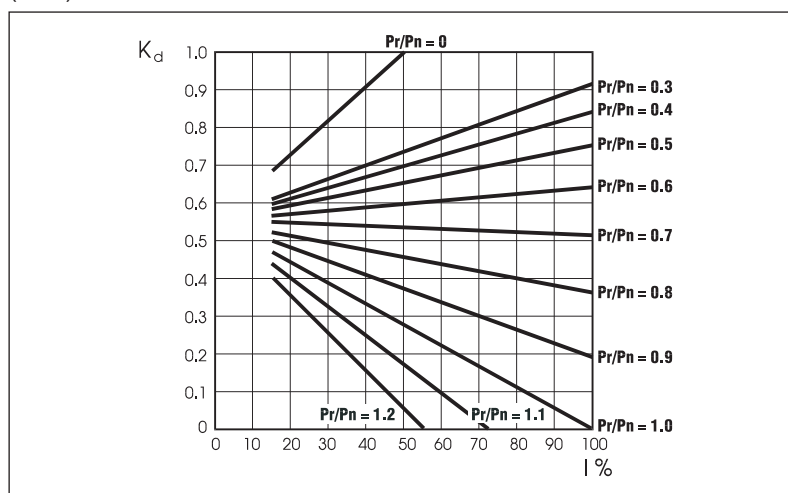
Donde:

$$K_J = \frac{J_m + J_c}{J_m} \quad \text{factor de inercia}$$

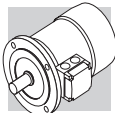
$$K_c = \frac{M_a - M_L}{M_a} \quad \text{factor de par}$$

$$K_d = \quad \text{factor de carga ver tabla siguiente}$$

(F 23)



Con el número de arranques así obtenido deberá verificarse que el trabajo máximo de frenado sea compatible con la capacidad térmica del freno $W_{\text{máx}}$. Indicada en las tablas (F30), (F38).



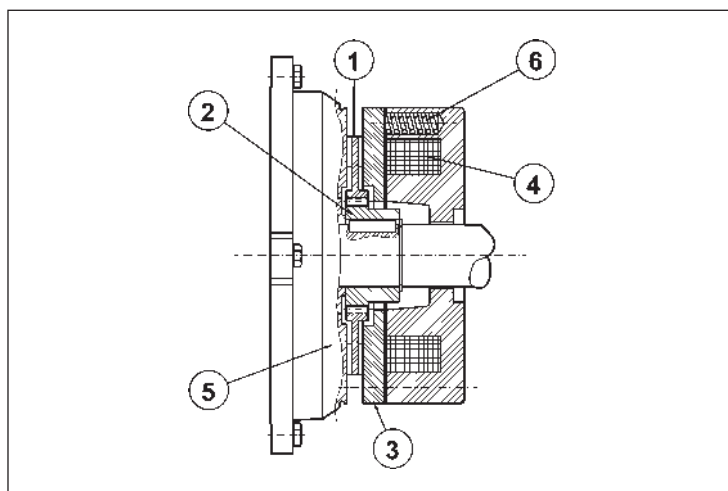
M5 MOTORES FRENO ASÍNCRONOS

M5.1 Funcionamiento

La ejecución con freno prevé el uso de frenos de presión por muelles alimentados en c.c. (tipo FD) o en c.a. (tipo FA).

Todos los frenos funcionan según el principio de seguridad, es decir, intervienen como efecto de la presión ejercida por los muelles, cuando falta la alimentación.

(F 24)



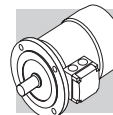
Leyenda:

- ① disco
- ② cubo
- ③ armadura móvil
- ④ bobina
- ⑤ escudo posterior motor
- ⑥ muelles

A falta de tensión, la armadura móvil, empujada por los muelles de presión, bloquea el disco de freno entre la superficie de la propia armadura móvil y el escudo del motor impidiendo el giro del eje. Cuando se excita la bobina, se produce una atracción magnética sobre la armadura móvil, que venciendo la reacción elástica de los muelles, libera el disco del freno y el eje al cual es solidario, permitiendo el giro libre del motor.

M5.2 Características generales

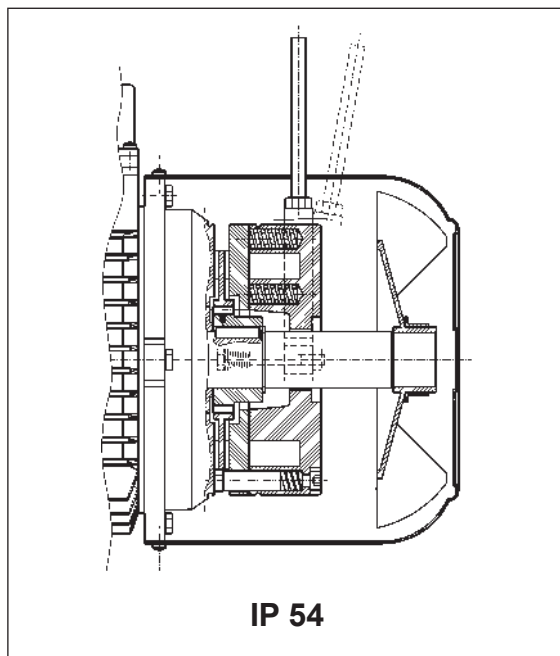
- Par de frenado elevado (generalmente $M_b \approx 2 M_n$) y regulable
- Disco freno con estructura de acero y doble superficie de fricción (material muy resistente al desgaste, sin amianto).
- Taladro hexagonal en el eje del motor lado ventilador (NDE), para el giro manual (no previsto cuando están presentes las opciones PS, RC, TC, U1, U2, EN1, EN2, EN3, EN4, EN5, EN6).
- Desbloqueo mecánico manual (opciones **R** y **RM** para BN/M_FD ; opción **R** para BN/M_FA).
- Tratamiento anticorrosivo sobre toda la superficie del freno.
- Aislamiento clase F.



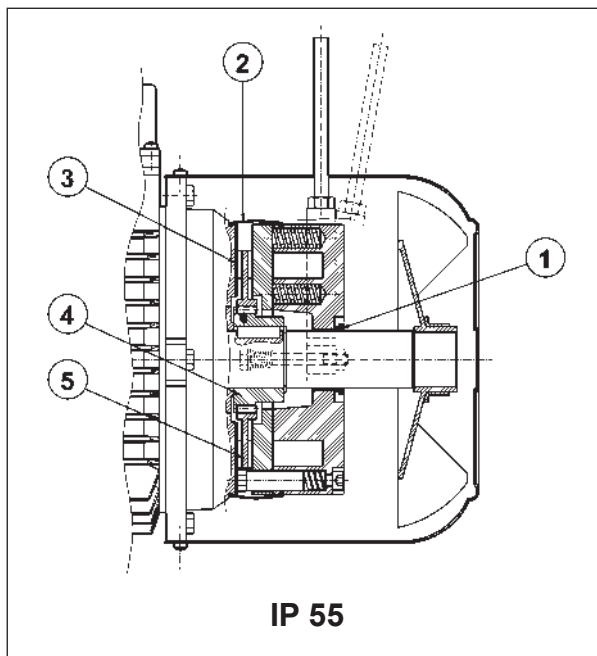
M6 MOTORES FRENO EN C.C., TIPO BN_FD y M_FD

Tamaños : BN 63 ... BN 200L / M05 ... M5

(F 25)



(F 26)



Freno electromagnético con bobina toroidal en **corriente continua** fijado con tornillos al escudo del motor; los muelles de precarga realizan el posicionamiento axial del cuerpo magnético. El disco freno es deslizante sobre el cubo de accionamiento de acero acoplado sobre el eje y provisto de muelles antivibración. Los motores se suministran con el freno tarado en fábrica a los valores de par indicados en las tablas de datos técnicos; el par de frenado puede ser regulado modificando el tipo y/o el número de los muelles.

Bajo pedido, los motores pueden incorporar una palanca de desbloqueo manual con retorno automático (**R**) o con mantenimiento de la posición de desbloqueo freno (**RM**); para determinar la posición angular de la palanca de desbloqueo ver descripción de la variante correspondiente en el párrafo "SISTEMAS DE BLOQUEO DEL FRENO".

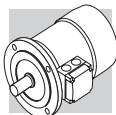
El freno FD garantiza elevadas prestaciones dinámicas y baja rumorosidad; las características de la intervención del freno en corriente continua pueden ser optimizadas en función de la alimentación utilizando los diferentes tipos de alimentación disponibles y/o realizando el cableado oportuno.

Para aplicaciones de elevación y/o para trabajos de mucha duración diaria, contactar con el departamento técnico comercial.

M6.1 Grado de protección

La ejecución estándar está prevista con el grado de protección IP54. Opcionalmente el motor freno tipo FD puede suministrarse con protección **IP55**, con las siguientes variantes constructivas:

- ① retén axial V – ring montado en el eje del motor N.D.E.
- ② protección de goma impermeable al agua y al polvo
- ③ anillo de acero inox. Situado entre el escudo del motor y el disco del freno
- ④ cubo de arrastre en acero inox.
- ⑤ disco freno en acero inox.



M6.2 Alimentación del freno FD

La alimentación de la bobina del freno en c.c. está prevista por medio de un rectificador apropiado, montado en el interior de la caja de bornes y cableado a la bobina del freno. Además, para los motores de simple polaridad, está prevista de serie la conexión del rectificador a los bornes del motor. Independientemente de la frecuencia de red, la tensión estándar de alimentación del rectificador V_B está indicada en la tabla siguiente:

(F 27)

2, 4, 6 P				1 speed	
		BN_FD / M_FD		alimentación del freno desde la caja de bornes	alimentación independiente
		$V_{mot} \pm 10\%$ 3 ~	$V_B \pm 10\%$ 1 ~		
BN 63...BN 132	M05...M4LB	230/400 V – 50 Hz	230 V	estandar	especificar V_B SA o V_B SD
BN 160...BN 200	M4LC...M5	400/690 V – 50 Hz	400 V	estandar	especificar V_B SA o V_B SD

Para los motores de doble polaridad, la alimentación estándar del freno se realiza mediante una línea independiente con tensión de entrada al rectificador V_B como se indica en la tabla siguiente:

(F 28)

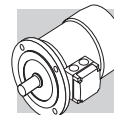
2/4, 2/6, 2/8, 2/12, 4/6, 4/8 P				2 speed	
		BN_FD / M_FD		alimentación del freno desde la caja de bornes	alimentación independiente
		$V_{mot} \pm 10\%$ 3 ~	$V_B \pm 10\%$ 1 ~		
BN 63...BN 132	M05...M4LB	400 V – 50 Hz	230 V		especificar V_B SA o V_B SD

El rectificador es del tipo de diodos a semionda ($V_{c.c.} \approx 0,45 \times V_{c.a.}$) y está disponible en las versiones **NB**, **SB**, **NBR** y **SBR**, como se detalla en la tabla siguiente:

(F 29)

		freno	 estandar bajo pedido	
BN 63	M05	FD 02		
BN 71	M1	FD 03 FD 53		
BN 80	M2	FD 04		
BN 90S	—	FD 14		
BN 90L	—	FD 05		
BN 100	M3	FD 15		
—		FD 55		
BN 112	—	FD 06S		
BN 132 - BN 160MR	M4	FD 56 FD 06 FD 07		
BN 160L - BN 180M	M5	FD 08		
BN 180L - BN 200M	—	FD 09		

(*) $t_{2c} < t_{2r} < t_2$



El rectificador **SB** con la excitación controlada electrónicamente, reduce los tiempos de desbloqueo del freno sobreexcitando el electroimán en los primeros instantes de la inserción, pasando seguidamente al funcionamiento normal de semionda una vez se ha desactivado el freno.

El uso del rectificador tipo **SB** debe preverse siempre en los casos siguientes:

- elevado número de arranques por hora
- tiempos de desbloqueo del freno reducidos
- elevadas sollicitaciones térmicas del freno

Para aquellas aplicaciones donde se requiere una intervención (recuperación de las condiciones de frenado) rápido del freno, pueden suministrarse bajo pedido los rectificadores **NBR** o **SBR**.

Estos rectificadores completan los tipos **NB** y **SB**, integrando en el circuito electrónico un interruptor estático que interviene desactivando rápidamente el freno en el caso de falta de tensión.

Esta solución permite reducir el tiempo de desbloqueo del freno evitando ulteriores cableados y contactos externos. Para un mejor uso de los rectificadores **NBR** y **SBR** es necesario efectuar la alimentación del freno independiente.

Tensiones disponibles: 230Vac $\pm 10\%$, 400V $\pm 10\%$, 50/60 Hz (con rectificador); 100Vdc $\pm 10\%$, 180Vdc $\pm 10\%$ (con opción SD).

M6.3 Datos técnicos del freno FD

En la tabla siguiente se indican las características técnicas de los frenos en c.c. tipo FD.

(F 30)

Freno	Par de frenado M _b [Nm]			Desbloqueo		Frenada		W _{max} por frenada			W	P
	muelles			t ₁ [ms]	t _{1s} [ms]	t ₂ [ms]	t _{2c} [ms]	[J]			[MJ]	[W]
	6	4	2					10 s/h	100 s/h	1000 s/h		
FD02	—	3.5	1.75	30	15	80	9	4500	1400	180	15	17
FD03	5	3.5	1.75	50	20	100	12	7000	1900	230	25	24
FD53	7.5	5	2.5	60	30	100	12					
FD04	15	10	5	80	35	140	15	10000	3100	350	30	33
FD14												
FD05	40	26	13	130	65	170	20	18000	4500	500	50	45
FD15	40	26	13	130	65	170	20					
FD55	55	37	18	—	65	170	20					
FD06S	60	40	20	—	80	220	25	20000	4800	550	70	55
FD56	—	75	37	—	90	250	20	29000	7400	800	80	65
FD06		100	50		100	250	20					
FD07	150	100	50	—	120	200	25	40000	9300	1000	130	65
FD08*	250	200	170	—	140	350	30	60000	14000	1500	230	100
FD09**	400	300	200	—	200	450	40	70000	15000	1700	230	120

* valores de par de frenado con 9, 7 y 6 muelles respectivamente.

** valores de par de frenado con 12, 9 y 6 muelles respectivamente.

t_1 = tiempos de desbloqueo del freno con alimentador de semionda

t_{1s} = tiempos de desbloqueo del freno con dispositivo con alimentador de la excitación a control electrónico

t_2 = retardo de la frenada con interrupción lado c.a. y alimentación independiente

t_{2c} = retardo de la frenada con interrupción lado c.a. y c.c. — Los valores t_1 , t_{1s} , t_2 , t_{2c} indicados en la tabla (F30) se refieren al freno tarado al par máximo, entrehierro medio y tensión nominal

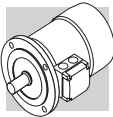
W_{max} = energía máxima por frenada

W = energía de frenada entre dos regulaciones sucesivas del entrehierro

P_b = potencia absorbida por el freno a 20°C

M_b = par de frenado estático ($\pm 15\%$)

s/h = arranques hora



El desgaste del ferodo depende de las condiciones de trabajo (temperatura, humedad, velocidad de deslizamientos, presión específica); los valores de desgaste deben de considerarse como indicativas.

M6.4 Conexiones del freno FD

Los motores estándar de una velocidad, se suministran con la conexión del rectificador a la caja de bornes realizada en fábrica.

Para los motores de 2 velocidades, y donde se requiera la alimentación independiente del freno, prever la conexión al rectificador de acuerdo con la tensión del freno VB indicada en la placa del motor.

Dada la naturaleza inductiva de la carga, para el mando del freno y para la interrupción lado corriente continua, deben utilizarse contactos con categoría de uso AC-3 según IEC 60947-4-1.

Tabla (F31) - Alimentación del freno desde los bornes del motor e interrupción lado c.a.

Tiempo de parada t_2 retardado en función de las constantes de tiempo del motor. Debe preverse cuando se requieran arranques/ paradas progresivos.

Tabla (F32) - Bobina del freno con alimentación independiente e interrupción del lado c.a.

Tiempo de parada normal e independiente del motor.

Los tiempos de paro t_2 están indicados en la tabla (F30).

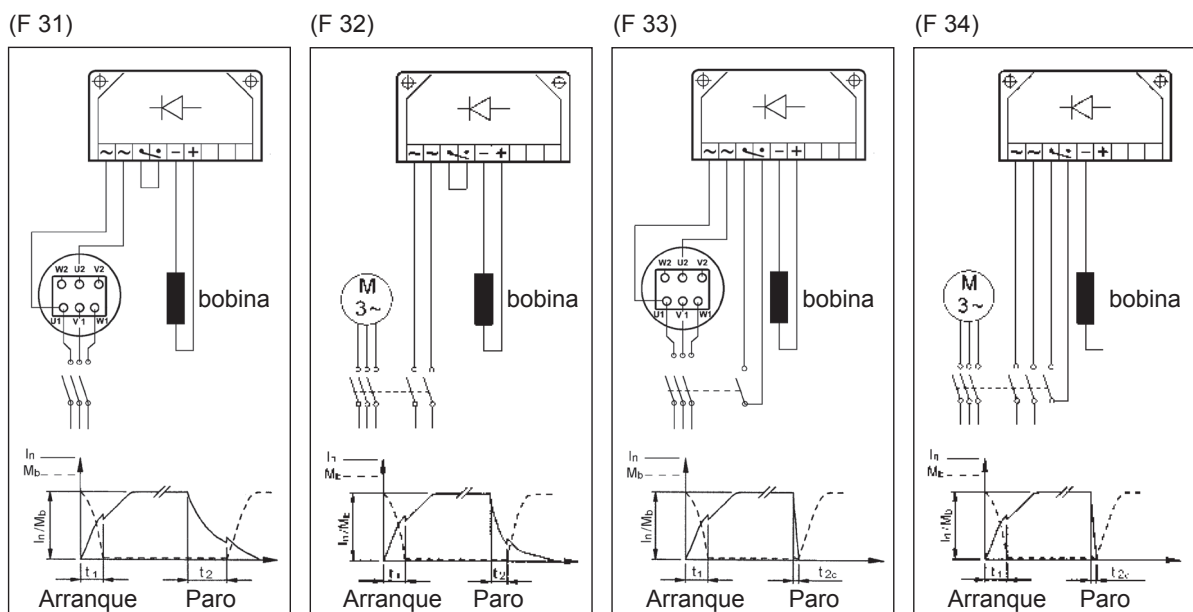
Tabla (F33) - Bobina freno con alimentación independiente e interrupción del lado c.a. y c.c.

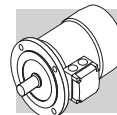
Tiempo de parada reducido según los valores t_{2c} indicados en la tabla (F30).

Tabla (F34) - Bobina de freno con alimentación separada e interrupción lado c.a. y c.c.

Tiempo de parada reducido según los valores t_{2c} indicados en la tabla (F30).

La alimentación del freno directamente desde el terminal del motor (de la tabla F31 a la tabla F34) solo es posible cuando la tensión nominal de freno corresponde a la tensión baja del motor.

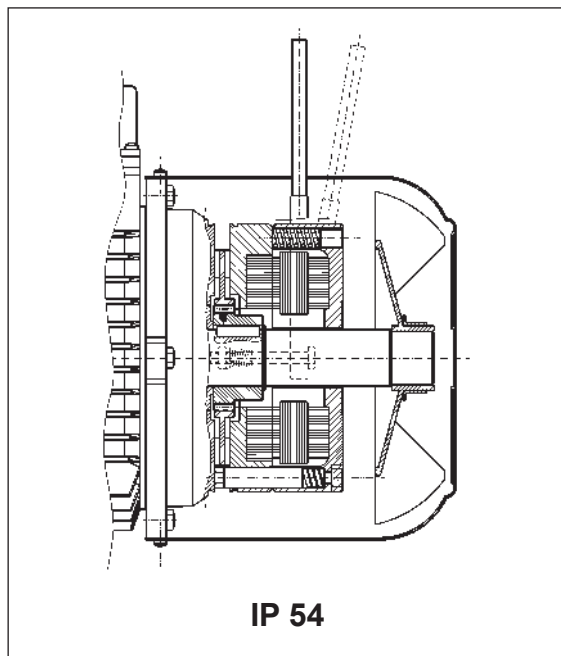




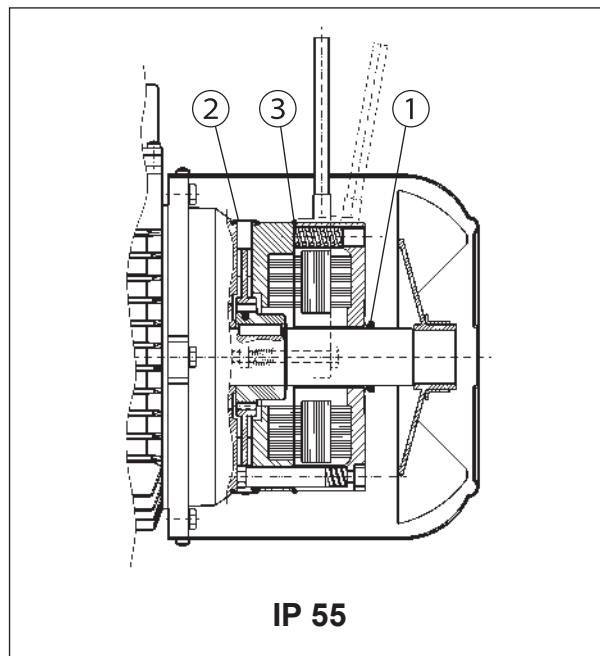
M7 MOTORES FRENO DE C.A., TIPO BN_FA y M_FA

Tamaños: BN 63 ... BN 180M / M05 ... M5

(F 35)



(F 36)



Freno electromagnético alimentado con corriente corriente alterna trifásica, fijado con tornillos al escudo del motor; los muelles de precarga efectúan el posicionamiento axial del cuerpo magnético. El disco freno es deslizable axialmente sobre el cubo de accionamiento en acero, acoplado sobre el eje y provisto de muelles antivibración. El par de frenado viene regulado de fábrica con los valores que se indican en las tablas de características técnicas de los motores correspondientes. La acción del freno también es ajustable, regulando gradualmente el par de frenado a través del tornillo que realiza la precarga de los muelles; el campo de regulación del par es: $30\% M_{bMAX} < M_b < M_{bMAX}$ (M_{bMAX} es el momento de frenado máximo indicado en la tabla (F38).

El freno tipo FA presenta unas características dinámicas muy elevadas que lo hacen idóneo en aplicaciones donde se requieren frecuencias de arranque elevadas con tiempos de intervención muy rápidos.

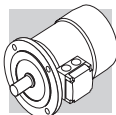
Bajo pedido, los motores pueden ser equipados con palanca para el desbloqueo manual con retorno automático (**R**). Para la especificar la posición angular de la palanca, ver la variante en el párrafo "SISTEMAS DE DESBLOQUEO DEL FRENO".

Para aplicaciones de elevación y/o elevada disipación de energía diaria, contactar con el servicio técnico comercial

M7.1 Grado de protección

En la ejecución estándar está previsto el grado de protección IP54. Como opción, el motor freno FA puede suministrarse con grado de protección **IP55** comportando las siguientes variantes constructivas.

- ① retén axial V-ring montado en el eje del motor N.D.E.
- ② protección de goma impermeable al agua y al polvo
- ③ junta tórica



M7.2 Alimentación del freno FA

En los motores de polaridad simple, la alimentación de la bobina del freno está conectada directamente en los bornes del motor, por tanto, la tensión del freno coincide con la tensión del motor. En este caso la tensión del freno puede ser omitida en la designación.

Para los motores de doble polaridad, y también para los motores con alimentación independiente del freno, existe una caja de bornes auxiliar con 6 terminales para la conexión del freno a la línea. En ambos casos el valor de la tensión del freno deberá especificarse en la designación.

En la tabla siguiente se indican los valores de la alimentación estándar del freno en c.a. Para los motores de simple o doble Polaridad.

(F 37)

Motores de una sola velocidad	BN 63...BN 132	BN 160...BN 180
	M05...M4LB	M4LC...M5
	230Δ / 400Y V ±10% – 50 Hz	400Δ/ 690Y V ±10% – 50 Hz
	265Δ / 460Y ±10% - 60 Hz	460Y – 60 Hz

Motor de doble velocidad (alimentación de línea independiente)	BN 63...BN 132
	M05...M4
	230Δ / 400Y V ±10% – 50 Hz
	460Y - 60 Hz

Si no se especifica otra distinta, la alimentación estándar del freno es de 230Δ / 400 Y V. 50Hz.

Bajo pedido, pueden suministrarse tensiones especiales en el rango 24...690 V, 50-60 Hz.

M7.3 Datos técnicos frenos FA

(F 38)

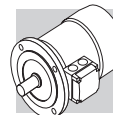
Freno	Par de frenado M_b [Nm]	Desbloqueo t_1 [ms]	Frenada t_2 [ms]	W_{max} [J]			W [MJ]	P [VA]
				10 s/h	100 s/h	1000 s/h		
FA 02	3.5	4	20	4500	1400	180	15	60
FA 03	7.5	4	40	7000	1900	230	25	80
FA 04	15	6	60	10000	3100	350	30	110
FA 14								
FA 05	40	8	90	18000	4500	500	50	250
FA 15								
FA 06S	60	16	120	20000	4800	550	70	470
FA 06	75	16	140	29000	7400	800	80	550
FA 07	150	16	180	40000	9300	1000	130	600
FA 08	250	20	200	60000	14000	1500	230	1200

Leyenda:

M_b = par máx de frenado estático (±15%)
 t_1 = tiempo de desbloqueo del freno
 t_2 = retardo de la frenada
 W_{max} = energía máx. por frenada (capacidad térmica del freno)
W = energía de frenado entre dos regulaciones sucesivas del entrehierro
 P_b = potencia absorbida por el freno a 20° (50 Hz)
s/h = arranques hora

NOTA.

Los valores de t_1 y t_2 indicados en la tabla están referidos al valor del freno regulado en par, entrehierro medio y tensión nominales.

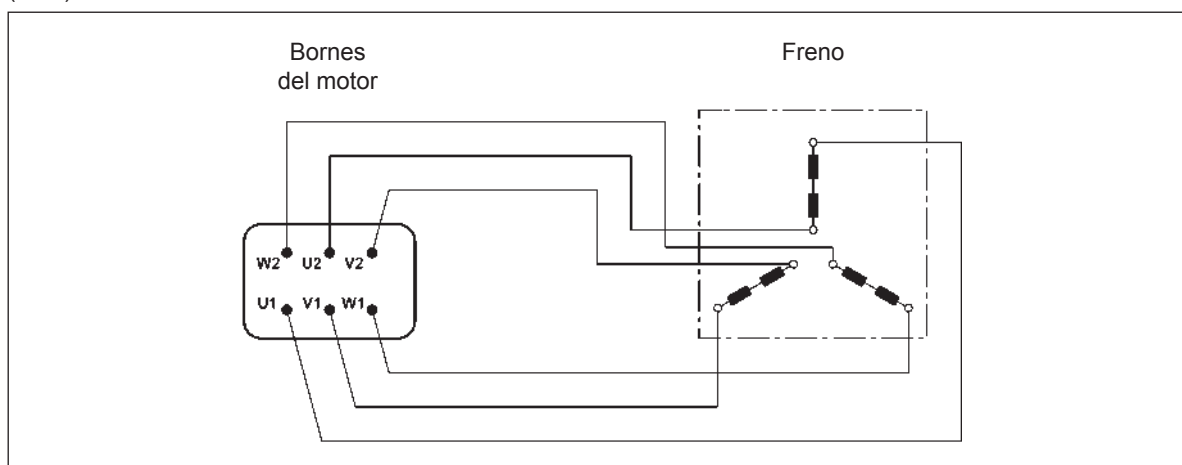


El desgaste del ferodo depende de las condiciones de trabajo (temperatura, humedad, velocidad de deslizamientos, presión específica); los valores de desgaste deben de considerarse como indicativas.

M7.4 Conexiones del freno FA

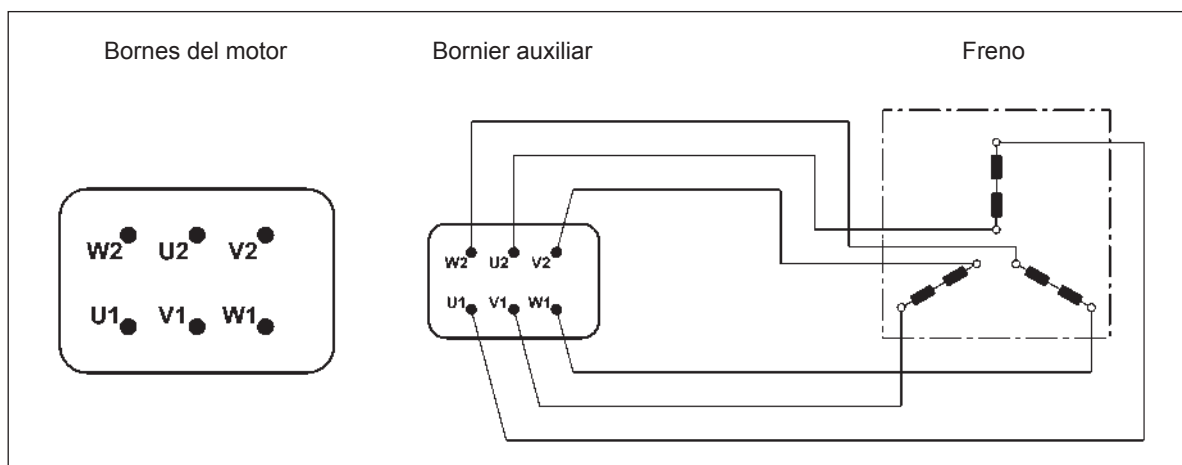
Para los motores con la alimentación del freno efectuada directamente desde la alimentación del motor, las conexiones a la caja de bornes corresponden a las indicaciones del esquema siguiente:

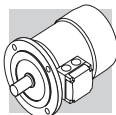
(F 39)



Para los motores de doble polaridad, y cuando se requiera, los motores de una velocidad con alimentación independiente, está prevista una regleta auxiliar con 6 bornes para la conexión del freno; en esta ejecución los motores incorporan una caja de bornes mayor. Ver esquema siguiente:

(F 40)



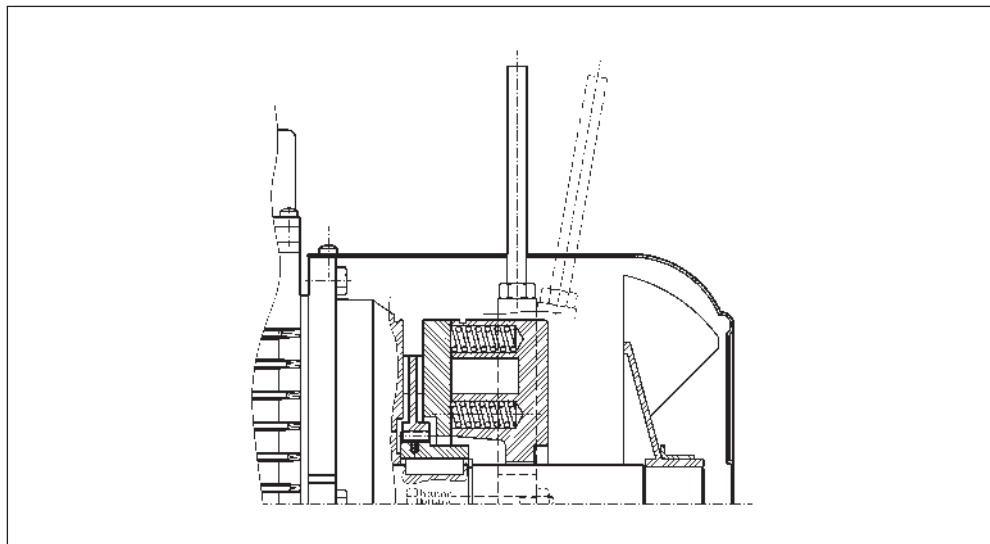


M8 SISTEMA DE DESBLOQUEO DEL FRENO

Los frenos por presión de muelles tipo FD y FA pueden dotarse opcionalmente de dispositivos para el desbloqueo manual del freno, normalmente utilizados para efectuar intervenciones de mantenimiento sobre los componentes de la máquina, o de la instalación, accionados por el Motor.

(F 41)

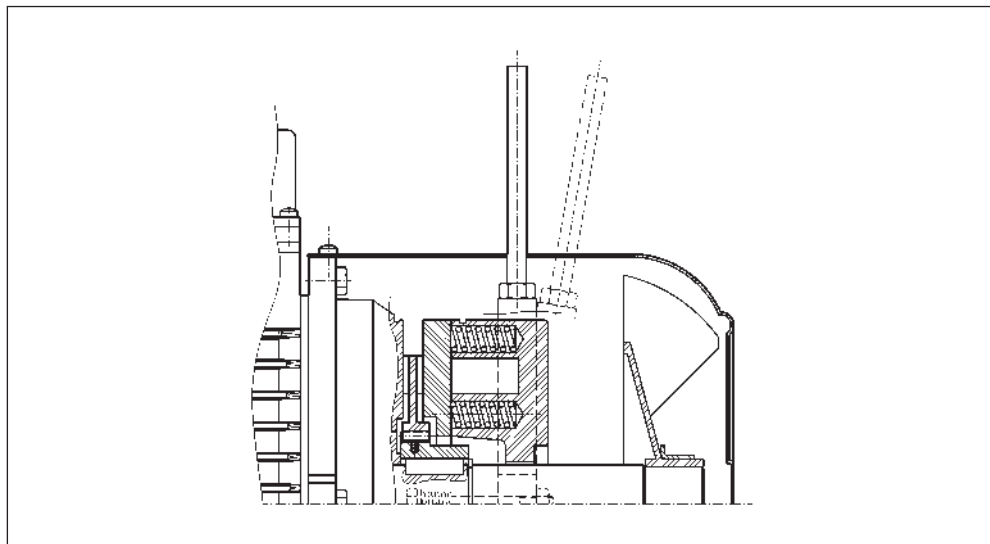
R



La palanca de desbloqueo incorpora el retorno automático a través de un dispositivo demuelles.

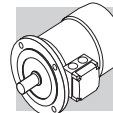
(F 42)

RM



En los motores freno tipo FD la palanca de desbloqueo puede fijarse temporalmente en posición de desbloqueo del freno, ajustando la misma hasta sujetar la extremidad en un resalte del cuerpo del freno.

La disponibilidad de los sistemas de desbloqueo del freno es distinta para los diversos tipos de motor, y se describe en la tabla siguiente:



(F 43)

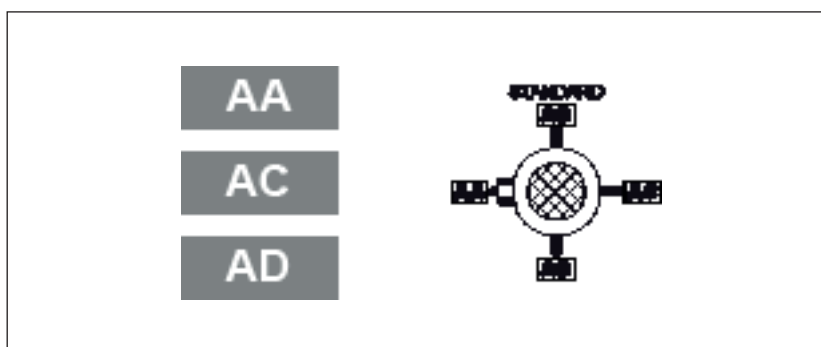
	R	RM
BN_FD	BN 63...BN 200	2p 63A2 ≤ H ≤ 132M2 4p 63A4 ≤ H ≤ 132MA4 6p 63A6 ≤ H ≤ 132MA6
M_FD	M 05...M 5	M 05...M 4LA
BN_FA	BN 63...BN 180M	
M_FA	M 05...M 5	

M8.1 Orientación de la palanca de desbloqueo

Para las dos opciones **R** y **RM**, si no se especifica lo contrario, la palanca de desbloqueo del freno viene situada con orientación de 90° en sentido horario, respecto a la posición de la caja de bornes - referencia **[AB]** en el dibujo de abajo.

Orientaciones alternativas, tipo **[AA]**, **[AC]** y **[AD]** se pueden solicitar citando la especificación correspondiente:

(F 44)



M8.2 Alimentación independiente del freno

...SA

La bobina de freno es alimentada por línea separada e independiente del motor.

El valor de la tensión en la bobina debe ser especificado, es.230SA. La opción se aplica a los motores con tipo de freno FD y FA.

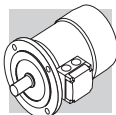
...SD

La bobina de freno tipo FD se alimenta directamente con corriente continua y no se proporciona el alimentador.

El valor de la tensión en la bobina debe ser especificado, por ejemplo. 24SD.

M8.3 Características de los volantes de inercia (F1)

En la siguiente tabla se detallan el peso y la inercia suplementaria del volante que puede ser solicitado con la opción F1. Las dimensiones generales del motor permanecen invariables.



(F 45)

Datos técnicos del volante para motores tipo: BN_FD, M_FD			
		Peso del volante [Kg]	Inercia del volante [Kgm ²]
BN 63	M05	0.69	0.00063
BN 71	M1	1.13	0.00135
BN 80	M2	1.67	0.00270
BN 90 S - BN 90 L	—	2.51	0.00530
BN 100	M3	3.48	0.00840
BN 112	—	4.82	0.01483
BN 132 S - BN 132 M	M4	6.19	0.02580

M9 OPCIONES

M9.1 Protecciones térmicas

Además de la protección garantizada por el interruptor magnetotérmico, los motores pueden ser equipados con sondas térmicas incorporadas, para proteger al bobinado contra las excesivas temperaturas producidas por una ventilación insuficiente o a un servicio intermitente. Esta protección debería estar siempre prevista para motores con ventilación independiente (IC416).

M9.2 Filtro capacitativo

CF

Hay disponible un filtro capacitativo solo para motores con freno tipo FD. Cuando el filtro capacitativo adecuado es instalado en el rectificador (Opción CF), los motores cumplen con los límites de emisiones establecido por la norma EN61000-6-3:2007 Compatibilidad Electromagnética - Emisiones Genéricas Estándar - Parte 6-3: Domestico, comercial y luz industrial medioambiental.

M9.3 Sonda térmica de termistores

E3

Los termistores son semiconductores que presentan una rápida variación de su resistencia cuando se aproxima a la temperatura nominal de actuación (150 °C).

La evolución de la característica $R = f(T)$ está definida por las normas DIN 440811, IEC 34-11

Estos sensores presentan la ventaja de tener unas dimensiones reducidas, una respuesta muy rápida y dado que el funcionamiento se realiza sin contactos, están completamente libres de desgaste. En general, se utilizan termistores con coeficientes de temperatura positivos, también denominados "resistores de conductor frío" PTC.

A diferencia de las sondas térmicas bimetalicas, no pueden intervenir directamente en la corriente de las bobinas de excitación y deben, por tanto, conectarse a una unidad especial de control (elemento de desconexión) que intercepte la conexión externa.

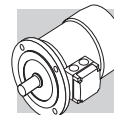
Con esta protección se instalan tres PTC (conectadas en serie) en el bobinado con los terminales situados en una caja de bornes Auxiliar.

K1

Son un subgrupo de termistores PTC las características constructivas de los cuales permiten la función como sensores de temperatura teniendo un coeficiente de temperatura positivo en función de la resistencia. La temperatura de trabajo es: 0°C...+260°C.

Los termistores no pueden comandar directamente los relés y deben por tanto ser conectados a un adecuado sistema de desenganche.

Los terminales (polarizados) de n.1 KTY 84-130 están disponibles en una caja de bornes auxiliar.



M9.4 Sondas térmicas bimetalicas

D3

Los protectores de este tipo contienen en su interior un disco metálico que, al alcanzar la temperatura nominal de intervención (150 °C), conmuta los contactos desde la posición de reposo. Al disminuir la temperatura, el disco y los contactos retornan automáticamente a la posición de reposo. Normalmente se emplean tres sondas bimetalicas conectadas en serie con contactos normalmente cerrados y los terminales situados en una caja de bornes auxiliar.

M9.5 Motor con conector

CON

Hay disponibles tres tipos de conector (CON 1, CON 2, CON 3) que pueden instalarse en dos posiciones de montaje: lado derecho de la caja de bornas (C1D, C2D, C3D); lado izquierdo caja de bornas (C1S, C2S, C3S).

L'opción CON está prevista para los motores BN M y una sola polarida (2, 4, 6, 8, polos) y en los tamaños indicados en la siguiente tablan. Quedan excluidas todas las versiones con doble polaridad. Los conectores están disponibles para los motores BN y M en la versión sin freno y para los motores con freno en corriente continua FD, en los tamaños indicados en la sigiene tabla.

Sobre el motor se fija el conector macho (von pin), el conector hembra no se suministra, Con la opción CON siempre está prevista la conexión de las fases en Y.

Para los motores con servoventilación (opción U1) la alimentación el ventilador está prevista en una caja de bornas separada y fijado sobre la tapa del ventilador.

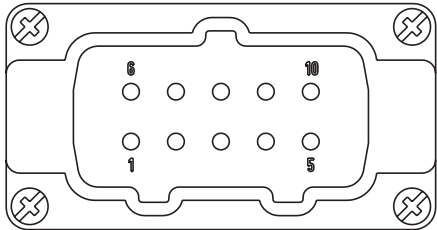
En los motores con encoder (opciones EN1...EN6) los terminales de la conexión del encoder se realiza a través del cable volante no conectado al conector.

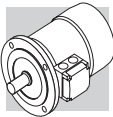
La opción CON no se aplica a los motores con freno en corriente alterna FA.

La opción CON no es compatible con las opciones U2, CUS, IC

Datos técnicos

(F 46)

Opción	CON 1
Tamaño motor	BN63...BN112 / M05...M3
Vista conector	
Tipo de conector	Harting Han 10ES
Cuerpo conector	Han EMC 10B con 2 levas
Número de pins - corriente nominal	10 x 16A
Tensión de alimentación	500 Vac
Tipo de conexión contactos	Terminales con tornillo



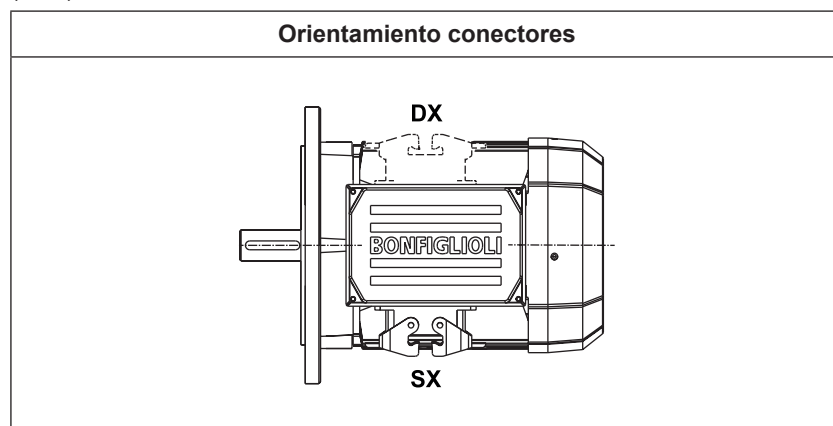
(F 47)

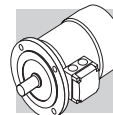
Opción	CON 2
Tamaño motor	BN63...BN160MR / M05...M4L
Vista conector	
Tipo de conector	Harting Han Modular
Cuerpo conector	Han EMC 10B con 2 levass
Tipo Modulo	Modulo C + Modulo vacío + Modulo E
Número de pins - corriente nominal	3 x 36A / 6 x 16A
Tensión de alimentación	500 Vac
Tipo de conexión contactos	Contactos a crimpar

(F 48)

Opción	CON 3
Tamaño motor	BN63...BN160M / M05...M4L
Vista conector	
Tipo de conector	Harting Han Modular
Cuerpo conector	Han EMC 10B con 2 levass
Tipo Modulo	Modulo C + Modulo vacío + Modulo E
Número de pins - corriente nominal	3 x 36A / 6 + 6 x 16A
Tensión de alimentación	500 Vac
Tipo de conexión contactos	Contactos a crimpar

(F 49)





(F 50)

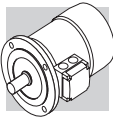
Diseño de dimensiones motores sin freno						
		AD (mm)	AF (mm)	AH (mm)	LL (mm)	V ^(*) (mm)
BN63	M05	136	110	45	165	4.5
BN71	M1	149	110	45	165	15.5
BN80	M2	160	110	45	165	16.5
BN90	—	162	110	45	165	31.5
BN100	M3	171	110	45	165	37.5
BN112	—	186	110	45	165	39
BN132	M4	210	140	45	188	45.5
BN160MR	—	210	140	45	188	161

(*) Dimension válida solo para motores BN

(F 51)

Diseño de dimensiones motores con freno FD						
		AD (mm)	AF (mm)	AH (mm)	LL (mm)	V ^(*) (mm)
BN63	M05	136	110	45	165	4.5
BN71	M1	149	110	45	165	1.5
BN80	M2	160	110	45	165	18.5
BN90	—	162	110	45	165	39.5
BN100	M3	171	110	45	165	63.5
BN112	—	186	110	45	165	75
BN132	M4	210	140	45	188	122
BN160MR	—	210	140	45	188	161

(*) Dimension válida solo para motores BN



M9.6 Control de la funcionalidad de freno

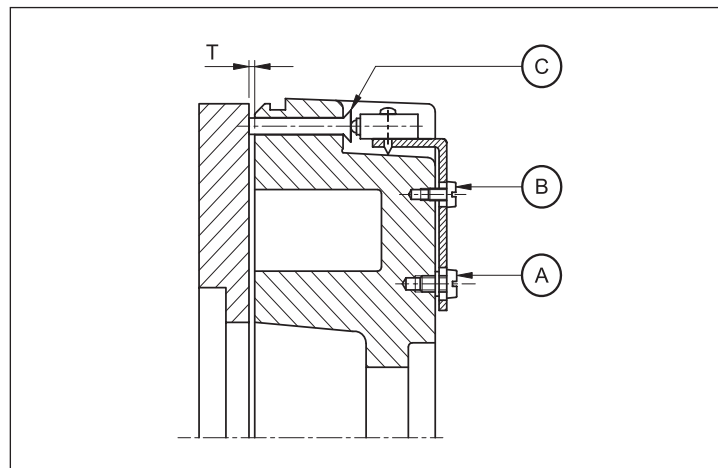
MSW

El microinterruptor puede ser regulado para indicar la atracción/liberación del ánclora móvil o para señalar que se ha llegado al valor máximo admisible del entrehierro.

La opción MSW está disponible para los freno FD03...FD09.

El microswitch tiene tres terminales NC, NO, COM. En la figura de abajo, vienen indicados los principales componentes del freno equipado con microswitch.

(F 52)



- A: Tornillo de fijación
- B: Tornillo de regulación
- C: Actuador

M9.7 Entrada de cables suplementarios para motores autofrenantes

IC

En la tapa de la caja de bornas de los motores freno BN63...BN160MR / M05...M4 están disponibles dos entradas adicionales para cables M16 x 1.5 (uno por cada lado).

En la tapa de la caja de bornas de los motores freno BN160...BN200 / M5 está disponible una entrada para cable de M16 x 1.5 al lado de la entrada del cable del freno.

M9.8 Resistencias anticondensación

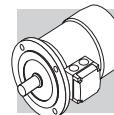
H1

NH1

Los motores funcionando en ambientes muy húmedos y/o con grandes variaciones de temperatura, pueden equiparse con una resistencia de caldeo (anticondensación).

La alimentación monofásica se realiza mediante una regleta auxiliar situada en la caja principal.

La potencia absorbida por la resistencia eléctrica, está indicada en la lista siguiente:



(F 53)

		H1	NH1
		1~ 230V ± 10% P [W]	1~ 115V ± 10% P [W]
BN 56...BN 80	M0...M2	10	10
BN 90...BN 160MR	M3 - M4	25	25
BN 160M...BN 180M	M5	50	50
BN 180L...BN 200L	—		

Importante

Durante el funcionamiento del motor, la resistencia de caldeo nunca debe permanecer alimentada.

M9.9 Tropicalización

TP

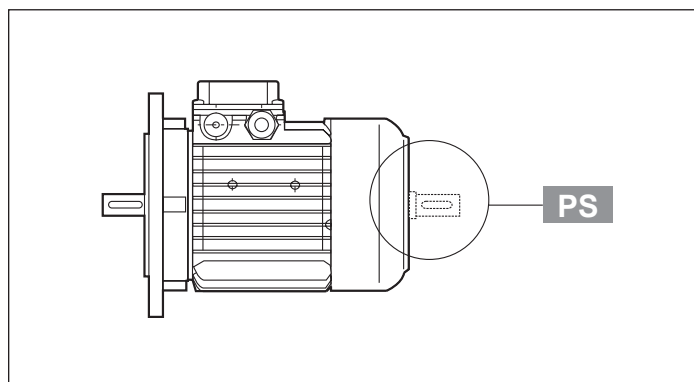
Cuando se especifica la opción TP, la bobina del motor recibe una protección adicional para su funcionamiento en unas condiciones de elevada humedad y temperatura,

M9.10 Segunda extremidad del eje

PS

Esta opción excluye las opciones RC, TC, U1, U2, EN1, EN2, EN3, EN4, EN5, EN6. Las dimensiones pueden obtenerse en la tabla de dimensiones de los motores.

(F 54)



M9.11 Dispositivo antirretorno

AL

AR

En las aplicaciones donde sea necesario impedir el giro inverso del motor motivado por la carga, es posible emplear motores provistos de un dispositivo antirretorno (solamente disponible en los motores serie M). Este dispositivo permite el giro libre en el sentido de marcha, interviniendo instantáneamente en ausencia de la corriente bloqueando el giro del eje en el sentido inverso.

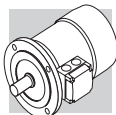
El dispositivo antirretorno está lubricado de por vida con grasa específica para esta aplicación.

En el momento del pedido deberá indicarse con claridad el sentido de giro previsto.

En ningún caso, el dispositivo antirretorno, deberá utilizarse para impedir el giro inverso en caso de conexión eléctrica errónea.

En la tabla (F55) están indicados los valores del par nominal y máximo de retención, aplicable al dispositivo antirretorno utilizado, la representación esquemática del dispositivo se muestra en la tabla (F56).

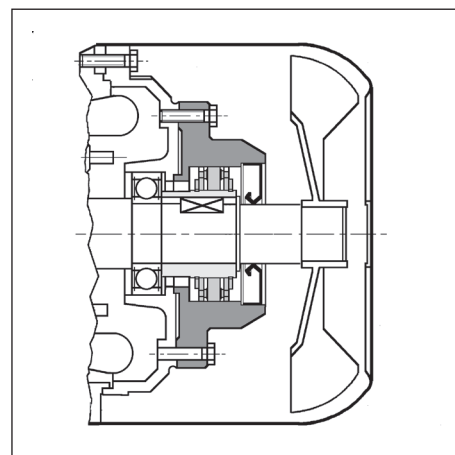
Las dimensiones son las mismas que las del motor freno. El sentido de giro libre está descrito en el párrafo "OPCIONES MOTORES" para cada sección dedicadas a los reductores.



(F 55)

	Par nominal de bloqueo [Nm]	Par máx. de bloqueo [Nm]	Velocidad de liberación [min ⁻¹]
M1	6	10	750
M2	16	27	650
M3	54	92	520
M4	110	205	430

(F 56)



M9.12 Ventilación

Los motores están refrigerados mediante ventilación externa (IC 411 según CEI EN 60034-6) y están equipados con un ventilador radial de plástico que funciona en ambos sentidos de giro. En la instalación deberá asegurarse una distancia mínima entre la tapa del ventilador y la pared más cercana, de modo que se asegure una buena circulación del aire y permita realizar el mantenimiento oportuno del motor y, si lo lleva, el del freno.

Bajo pedido, y a partir del tamaño BN 71, o bien M1, los motores pueden suministrarse con ventilación y alimentación independientes.

La refrigeración se realiza mediante un ventilador axial, con alimentación independiente, montado sobre la tapa del ventilador (método de enfriamiento IC 416).

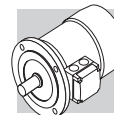
Esta ejecución es utilizada cuando el motor es alimentado mediante variador de frecuencia, con objeto de ampliar el campo de funcionamiento del motor a par constante, incluso a baja velocidad o cuando está solicitado con frecuencias de arranque elevadas.

Quedan excluidos de esta opción los todos los motores con doble eje (opción PS)

(F 57)

Datos de la alimentación					
		V a.c. ± 10%	Hz	P [W]	I [A]
BN 71	M1	1~ 230	50 / 60	22	0.12
BN 80	M2			22	0.12
BN 90	—			40	0.30
BN 100 (*)	M3			50	0.25
BN 112	—	3~ 230 Δ / 400Y		50	0.26 / 0.15
BN 132S	M4S		110	0.38 / 0.22	
BN 132M...BN 160MR	M4L				
BN 160...BN 180M	M5		50	180	1.25 / 0.72

Para esta variante, están disponibles dos ejecuciones alternativas, denominadas **U1** y **U2**, que tienen la misma dimensión en el sentido longitudinal. Para ambas ejecuciones, el incremento de longitud de la tapa del ventilador (**ΔL**) está indicado en la tabla siguiente. Las dimensiones generales se obtienen de las tablas dimensionales de los motores.



(F 58)

Tabla del incremento de la longitud del motor			
		ΔL_1	ΔL_2
BN 71	M1	93	32
BN 80	M2	127	55
BN 90	—	131	48
BN 100	M3	119	28
BN 112	—	130	31
BN 132S	M4S	161	51
BN 132M	M4L	161	51

ΔL_1 = incremento de la longitud respecto a la cota LB del motor estándar correspondiente

ΔL_2 = incremento de la longitud respecto a la cota LB del motor freno correspondiente

U1



Terminales de alimentación del ventilador en caja de bornes independiente.

Los motores freno de tamaños BN 71...BN 160MR, M1...M4L, con variante **U1**, la palanca de desbloqueo no permite su montaje en la posición AA.

La opción es incompatible con motores según las normas CSA y UL (opción CUS).

U2



Los terminales de alimentación del ventilador están situados en la caja de bornes principal del motor. Esta opción no es aplicable para los motores BN 160M ... BN 200L, M5, con excepción del motor 160 MR, por lo cual la opción está disponible a los motores con opción CUS (conformes a las normas CSA y UL)

(F 59)

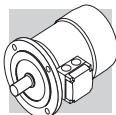
		V a.c. ±10%	Hz	P [W]	I [A]
BN 71	M1	1 ~ 230	50 / 60	22	0.12
BN 80	M2			22	0.12
BN 90	—			40	0.30
BN 100	M3	40		0.26 / 0.09	
BN 112	—	3 ~ 230Δ / 400Y		50	0.26 / 0.15
BN 132 ... BN 160MR	M4L			110	0.38 / 0.22

M9.13 Sombrerete protector de la lluvia

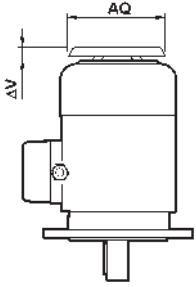
RC

El dispositivo protector de la lluvia está recomendado cuando el motor se instale verticalmente con el eje hacia abajo; sirve para proteger al propio motor de la entrada de cuerpos sólidos y del goteo. Las dimensiones adicionales están indicadas en la tabla siguiente.

El sombrerete excluye las variantes PS, EN1, EN2, EN3, EN4, EN5, EN6.



(F 60)

		AQ	ΔV	
BN 63	M05	118	24	
BN 71	M1	134	27	
BN 80	M2	152	25	
BN 90	—	168	30	
BN 100	M3	190	28	
BN 112	—	211	32	
BN 132...BN 160MR	M4	254	32	
BN 160M...BN 180M	M5	302	36	
BN 180L...BN 200L	—	340	36	

M9.14 Sombrero para ambiente textil

TC

La variante del sombrero tipo TC se ha de especificar cuando el motor se instale en ambientes de la industria textil, donde existen filamentos que podrían obstruir la rejilla de la tapa del ventilador, impidiendo el flujo regular del aire de refrigeración.

Esta opción excluye las variantes EN1, EN2, EN3, EN4, EN5, EN6. Las dimensiones totales son las mismas que las del sombrero tipo RC.

M9.15 Dispositivos de retroacción

Los motores pueden dotarse con seis tipos distintos de encoder que se describen a continuación. El montaje del encoder excluye la ejecución con doble eje (PS) y del sombrero de protección (RC, TC).

EN1

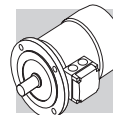
Encoder incremental, $V_{IN} = 5$ V, salida "line-driver" RS 422.

EN2

Encoder incremental, $V_{IN} = 10-30$ V, salida "line-driver" RS 422

EN3

Encoder incremental, $V_{IN} = 12-30$ V, salida "push-pull" 12-30 V



EN4

Encoder sin/cos, $V_{IN} = 4.5-5.5$ V, salida Sinus $0.5V_{PP}$.

EN5

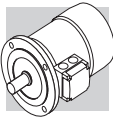
Encoder absoluto monogiro, interfaz HIPERFACE®, $V_{IN} = 7-12$ V.

EN6

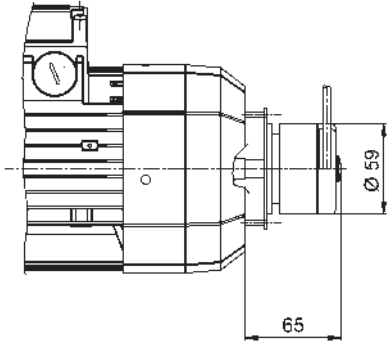
Encoder absoluto multigiro, interfaz HIPERFACE®, $V_{IN} = 7-12$ V.

(F 61)

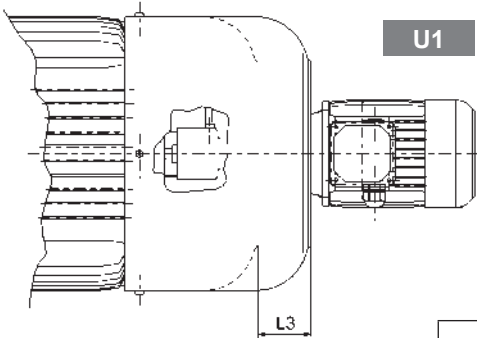
	EN1	EN2	EN3	EN4	EN5	EN6
Interfaz	TTL/RS 422	TTL/RS 422	HTL/push-pull	Sinus 0.5 VPP	HIPERFACE®	HIPERFACE®
Tensión alimentación [V]	4...6	10...30	12...30	4.4...5.5	7...12	7...12
Tensión de salida [V]	5	5	12...30	—	—	—
Intensidad de utilización sin carga [mA]	120	100	100	40	80	80
Nº de impulsos por revolución	1024					
resolución	—	—	—	—	15 bit	15 bit
revoluciones	—	—	—	—	—	12 bit
Nº de señales	6 (A, B, Z + señales invertidas)			6 (cos-, cos+, sin-, sin+, Z, $\bar{Z}$)	—	—
Frecuencia máx. de salida [kHz]	600			200		
Velocidad máxima [min ⁻¹]	6000 (9000 min ⁻¹ para 10 s)					
Rango de temperatura [°C]	-30 ... +100					
Grado de protección	IP 65					



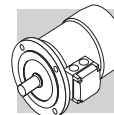
(F 63)

EN1, EN2, EN3, EN4, EN5, EN6	
	
BN 63...BN 200L	M05...M5
BN 63_FD...BN 200L_FD	M05_FD...M5_FD
BN 63_FA...BN 200L_FA	M05_FA...M5_FA

(F 62)

EN_ + U1		
		
BN 160M...BN 180M	M5	L3 72
BN 180L...BN 200L	-	82
BN 160M_FD...BN 180M_FD	M5_FD	35
BN 180L_FD...BN 200L_FD	-	41

Si la opción EN_ se solicita para motores de tamaño BN71...BN160MR / M1...M4 junto a la opción U1/U2, la variación de las dimensiones del motor coincide con las de la opción U1/U2.



M9.16 Protección de la superficie

C_

Cuando no se requiere ninguna clase de protección específica, las superficies de los motores están protegidas al menos con la clase de corrosividad C2 (UNI EN ISO 12944-2). Para mejorar la resistencia a la corrosión atmosférica, los motores se pueden entregar con una protección de superficie C3 y C4.

PROTECCIÓN SUPERFICIE	Ambientes típicos	Temperatura máxima superficie	Clase corrosividad conforme a UNI EN ISO 12944-2
C3	Ambientes industriales y urbanos con una humedad relativa de hasta el 100% (contaminación atmosférica media)	120°C	C3
C4	Zonas industriales, zonas costeras, fábrica de productos químicos, con una humedad relativa de hasta el 100% (alta contaminación atmosférica)	120°C	C4

Los motores con la protección opcional de clase C3 o C4 están disponibles en una variedad de colores.

Si no se solicita color específico (ver la opción “PINTURA”) el acabado de los motores será en RAL 7042. Los motores también se pueden suministrar con protección de la superficie para la clase de corrosividad C5 según la norma UNI EN ISO 12944-2. Póngase en contacto con nuestro Servicio Técnico para más detalles.

M9.17 Pintura

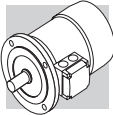
RAL_

Los motores con la protección opcional de clase C3 o C4 están disponibles en los colores que figuran en la siguiente tabla.

PINTURA	Color	Número RAL
RAL7042*	Gris Tráfico A	7042
RAL5010	Azul genciana	5010
RAL9005	Negro Jet	9005
RAL9006	Aluminio Blanco	9006
RAL9010	Blanco Puro	9010
RAL7035	Gris claro	7035
RAL7001	Gris-plata	7001
RAL5015	Azul cielo	5015
RAL7037	Gris polvoriento	7037
RAL5024	Azul pastel	5024

* Los reductores se suministran en este color estándar si no se especifica ningún otro color.

NOTA - Las opciones “PINTURA” sólo se pueden especificar en combinación con las opciones “PROTECCIÓN DE LA SUPERFICIE”.



M9.18 Documentación

ACM

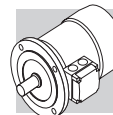
Certificado de conformidad de los motores

Documento en el cual se certifica la conformidad del producto con lo indicado en el pedido y su fabricación según los procedimientos estándar de producción y control que establece el sistema de calidad de Bonfiglioli Riduttori.

CC

Certificado de prueba

La obtención de este certificado conlleva verificar la conformidad del producto con el pedido, realizar inspecciones visuales de carácter general y las pruebas instrumentales de las características eléctrica (funcionamiento en vacío). Para llevar a cabo la prueba se utiliza una muestra estadística del lote de expedición.



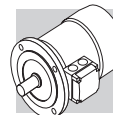
M10 DATOS TÉCNICOS DE LOS MOTORES

2P		3000 min ⁻¹ - S1										50 Hz														
freno c.c.																	freno c.a.									
P _n kW		n min ⁻¹	M _n Nm	IE1	η (100%) %	η (75%) %	η (50%) %	cosφ	In 400V A	Is In	Ms Mn	Ma Mn	J _m x 10 ⁻⁴ kgm ²	IM B5 	FD				FA				IM B5 			
															Mod	Mb Nm	Z ₀ 1/h	J _m x 10 ⁻⁴ kgm ²	Mod	Mb Nm	Z ₀ 1/h	J _m x 10 ⁻⁴ kgm ²				
0.18	BN 63A	2	2730	○	59.9	56.9	51.9	0.77	0.56	3.0	2.1	2.0	2.0	3.5	FD 02	1.75	3900	4800	5.2	FA 02	1.75	4800	2.6	5.0		
0.25	BN 63B	2	2740	○	66.0	64.8	64.8	0.76	0.72	3.3	2.3	2.3	2.3	3.9	FD 02	1.75	3900	4800	5.6	FA 02	1.75	4800	3.0	5.4		
0.37	BN 63C	2	2800	○	69.1	66.8	66.8	0.78	0.99	3.9	2.6	2.6	3.3	5.1	FD 02	3.5	3600	4500	6.8	FA 02	3.5	4500	3.9	6.6		
0.37	BN 71A	2	2820	○	73.8	73.0	70.6	0.76	0.95	4.8	2.8	2.6	3.5	5.4	FD 03	3.5	3000	4100	8.1	FA 03	3.5	4200	4.6	7.8		
0.55	BN 71B	2	2820	○	76.0	75.8	74.8	0.76	1.37	5.0	2.9	2.8	4.1	6.2	FD 03	5	2900	4200	8.9	FA 03	5	4200	5.3	8.6		
0.75	BN 71C	2	2810	○	76.6	76.2	76.2	0.76	1.86	5.1	3.1	2.8	5.0	7.3	FD 03	5	1900	3300	10.0	FA 03	5	3600	6.1	9.7		
0.75	BN 80A	2	2810	●	76.2	75.5	68.3	0.81	1.75	4.8	2.6	2.2	7.8	8.6	FD 04	5	1700	3200	12.5	FA 04	5	3200	9.4	12.4		
1.1	BN 80B	2	2800	●	76.4	76.2	75.0	0.81	2.57	4.8	2.8	2.4	9.0	9.5	FD 04	10	1500	3000	13.4	FA 04	10	3000	10.6	13.3		
1.5	BN 80C	2	2800	●	79.1	79.5	77.2	0.81	3.4	4.9	2.7	2.4	11.4	11.3	FD 04	15	1300	2600	15.2	FA 04	15	2600	13.0	15.1		
1.5	BN 90SA	2	2870	●	82.0	81.5	78.1	0.80	3.4	5.9	2.7	2.6	12.5	12.3	FD 14	15	900	2200	16.5	FA 14	15	2200	14.1	16.4		
1.85	BN 90SB	2	2880	●	82.5	82.0	75.4	0.80	4.0	6.2	2.9	2.6	16.7	14	FD 14	15	900	2200	18.2	FA 14	15	2200	18.3	18.1		
2.2	BN 90L	2	2880	●	82.7	82.1	80.8	0.80	4.8	6.3	2.9	2.7	16.7	14	FD 05	26	900	2200	20	FA 05	26	2200	21	20.7		
3	BN 100L	2	2860	●	81.5	81.3	77.4	0.79	6.7	5.6	2.6	2.2	31	20	FD 15	26	700	1600	26	FA 15	26	1600	35	27		
4	BN 100LB	2	2870	●	83.1	83.0	77.8	0.80	8.7	5.8	2.7	2.5	39	23	FD 15	40	450	900	29	FA 15	40	1000	43	30		
4	BN 112M	2	2900	●	85.5	84.5	83.0	0.82	8.2	6.9	3.0	2.9	57	28	FD 06S	40	—	950	39	FA 06S	40	950	66	40		
5.5	BN 132SA	2	2890	●	84.7	84.5	81.2	0.84	11.2	5.9	2.6	2.2	101	35	FD 06	50	—	600	48	FA 06	50	600	112	49		
7.5	BN 132SB	2	2900	●	86.5	86.3	84.4	0.85	14.7	6.4	2.6	2.2	145	42	FD 06	50	—	550	55	FA 06	50	550	154	56		
9.2	BN 132M	2	2930	●	87.0	86.5	83.6	0.86	17.7	6.7	2.8	2.3	178	53	FD 06	75	—	430	66	FA 06	75	430	189	67		
11	BN 160MR	2	2920	●	87.6	87.0	86.0	0.88	20.6	6.9	2.9	2.5	210	65												
15	BN 160MB	2	2930	●	89.6	89.4	88.0	0.86	28.1	7.1	2.6	2.3	340	84												
18.5	BN 160L	2	2930	●	90.4	90.1	89.0	0.86	34	7.6	2.7	2.3	420	97												
22	BN 180M	2	2930	●	89.9	89.7	89.5	0.88	40	7.8	2.6	2.4	490	109												
30	BN 200LA	2	2930	●	90.7	90.1	87.6	0.89	54	7.8	2.7	2.9	770	140												

○ = n.a. ● = IE1

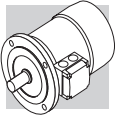


○ = n.a.
● = |E|

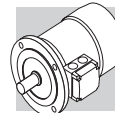


6P														1000 min ⁻¹ - S1														50 Hz																
 P _n kW														freno c.c.														freno c.a.																
														FD														FA																
														IM B5 	J _m x 10 ⁻⁴ kgm ²	Ma Mn	Ms Mn	Is In	In 400V A	cosφ	η (50%) %	η (75%) %	η (100%) %	IE1	M _n Nm	n min ⁻¹		IM B5 	J _m x 10 ⁻⁴ kgm ²	Z ₀ 1/h NB	Z ₀ 1/h SB	IM B5 	J _m x 10 ⁻⁴ kgm ²	Z ₀ 1/h	Mb Nm	Mod	Mb Nm	IM B5 						
0.09	BN 63A	6										0.98	880		4.6	3.4	1.8	2.1	2.1	0.60	0.53	0.32.9	41.0	41.0	55.0	1.91		5.5	8.4	1.7	1.9	0.68	0.69	51.0	55.5	8100	13500	4.0	6.3	FA 02	3.5	14000	4.0	6.1
0.12	BN 63B	6										1.32	870		4.9	3.7	1.7	2.1	0.64	0.60	0.41.8	44.0	44.0	58.5	2.70		6.7	10.9	1.7	1.9	0.82	0.71	51.4	58.5	7800	13000	4.3	6.6	FA 02	3.5	14000	4.3	6.4	
0.18	BN 71A	6										1.91	900		5.5	8.4	1.7	2.6	0.68	0.69	0.51.0	55.5	55.5	60.0	3.9		7.7	12.9	2.0	2.4	1.17	0.69	53.3	60.0	5100	9500	14	10.4	FA 03	5.0	13500	9.5	7.9	
0.25	BN 71B	6										2.70	900		6.7	10.9	1.7	2.6	0.82	0.71	0.51.4	58.5	58.5	62.0	2.70		9.4	12	1.7	1.9	1.17	0.71	51.4	58.5	7800	13000	12	9.4	FA 03	5.0	13000	12	9.1	
0.37	BN 71C	6										3.9	910		7.7	12.9	2.0	3.0	1.17	0.69	0.53.3	60.0	60.0	66.0	3.9		10.4	14	2.0	2.4	1.17	0.69	53.3	60.0	5100	9500	14	10.4	FA 03	7.5	9500	14	10.1	
0.37	BN 80A	6										3.9	910		9.9	21	2.0	3.2	1.15	0.68	0.63.3	67.4	67.4	70.0	3.9		13.8	23	2.0	2.2	1.15	0.68	63.3	67.4	5200	8500	23	13.8	FA 04	10	8500	23	13.7	
0.55	BN 80B	6										5.7	920		11.3	25	2.2	3.9	1.67	0.68	0.64.3	69.8	69.8	70.0	5.7		15.2	27	2.2	2.6	1.67	0.68	64.3	69.8	4800	7200	27	15.2	FA 04	15	7200	27	15.1	
0.75	BN 80C	6										7.8	920		12.2	28	2.2	3.8	2.38	0.65	0.64.4	70.0	70.0	70.0	7.8		16.1	30	2.2	2.5	2.38	0.65	64.4	70.0	3400	6400	30	16.1	FA 04	15	6400	30	16.0	
0.75	BN 90S	6										7.8	920		12.6	26	2.2	3.8	2.27	0.68	0.64.2	69.0	69.0	70.0	7.8		16.8	28	2.2	2.4	2.27	0.68	64.2	69.0	3400	6500	28	16.8	FA 14	15	6500	28	16.7	
1.1	BN 90L	6										11.4	920		15	33	2.0	3.9	3.2	0.69	0.69.1	72.6	72.6	72.9	11.4		21	37	2.0	2.3	3.2	0.69	69.1	72.6	2700	5000	37	21	FA 05	26	5000	37	22	
1.5	BN 100LA	6										15.2	940		22	82	2.0	4.1	4.0	0.72	0.70.3	74.2	74.2	75.2	15.2		28	86	2.0	2.1	4.0	0.72	70.3	74.2	1900	4100	86	28	FA 15	40	4100	86	29	
1.85	BN 100LB	6										19.0	930		24	95	2.0	4.6	4.8	0.73	0.62.6	72.8	72.8	76.6	19.0		30	99	2.0	2.1	4.8	0.73	62.6	72.8	1700	3600	99	30	FA 15	40	3600	99	31	
2.2	BN 112M	6										22	940		32	168	2.0	4.8	5.5	0.73	0.76.5	79.0	79.0	78.5	22		42	177	2.0	2.2	5.5	0.73	76.5	79.0	—	2100	177	42	FA 06S	60	2100	177	44	
3	BN 132S	6										30	940		36	216	1.8	5.1	7.1	0.76	0.75.1	77.0	77.0	79.7	30		49	226	1.8	1.9	7.1	0.76	75.1	77.0	—	1400	226	49	FA 06	75	1400	226	50	
4	BN 132MA	6										40	950		45	295	1.8	5.5	9.2	0.77	0.79.5	81.5	81.5	81.4	40		58	305	1.8	2.0	9.2	0.77	79.5	81.5	—	1200	318	58	FA 07	100	1200	318	63	
5.5	BN 132MB	6										56	945		56	383	1.9	6.1	12.2	0.78	0.79.1	80.9	80.9	83.1	56		72	406	1.9	2.1	12.2	0.78	79.1	80.9	—	1050	406	72	FA 07	150	1050	406	74	
7.5	BN 160M	6										75	955		83	740	2.0	5.9	15.7	0.81	0.84.8	85.0	85.0	85.0	75		112	815	2.0	2.2	15.7	0.81	84.8	85.0	—	900	815	112	FA 08	170	900	815	113	
11	BN 160L	6										109	960		103	970	2.3	6.6	22.7	0.81	0.85.9	86.5	86.5	86.4	109		133	1045	2.3	2.5	22.7	0.81	85.9	86.5	—	800	1045	133	FA 08	200	800	1045	133	
15	BN 180L	6										148	970		130	1550	2.4	6.2	30	0.82	0.87.3	88.0	88.0	87.7	148		170	1750	2.4	2.0	30	0.82	87.3	88.0	—	600	1750	170	—	—	—	—	—	
18.5	BN 200LA	6										184	960		145	1700	2.3	5.9	37	0.81	0.87.3	88.0	88.0	88.6	184		185	1900	2.3	2.0	37	0.81	87.3	88.0	—	450	1900	185	—	—	—	—	—	

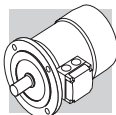
○ = n.a. ● = IE1



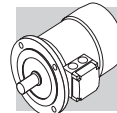
8P														750 min ⁻¹ - S1														50 Hz													
														freno c.c.														freno c.a.													
														FD														FA													
P _n		n	M _n	η	cosφ	I _n 400V	I _s I _n	M _s M _n	M _a M _n	J _m x 10 ⁻⁴	IM B5 	Mod	Mb	Z _o 1/h	J _m x 10 ⁻⁴	IM B5 	Mod	Mb	Z _o 1/h	J _m x 10 ⁻⁴	IM B5 																				
0.09	BN 71A	8	1.26	47	0.59	0.47	2.3	2.4	2.3	10.9	6.7	FD 03	3.5	9000	16000	12.0	9.4	FA 03	3.5	16000	12.0	9.1																			
0.12	BN 71B	8	1.69	51	0.59	0.58	2.1	2.3	2.2	12.9	7.7	FD 03	5.0	9000	16000	14.0	10.4	FA 03	5.0	16000	14.0	10.1																			
0.18	BN 80A	8	2.49	51	0.60	0.85	2.4	2.2	2.2	15	8.2	FD 04	5.0	6500	11000	16.6	12.1	FA 04	5.0	11000	16.6	12.0																			
0.25	BN 80B	8	3.51	54	0.63	1.06	2.4	2.0	1.9	20	9.9	FD 04	10.0	6000	10000	22	13.8	FA 04	10.0	10000	23	13.7																			
0.37	BN 90S	8	5.2	58	0.60	1.53	2.6	2.3	2.1	26	12.6	FD 14	15.0	4800	7500	28	16.8	FA 14	15.0	7500	28	16.7																			
0.55	BN 90L	8	7.8	62	0.60	2.13	2.6	2.2	2.0	33	15	FD 05	26	4000	6400	37	21	FA 05	26	6400	37	22																			
0.75	BN 100LA	8	10.2	68	0.63	2.53	3.4	1.9	1.7	82	22	FD 15	26	2800	4800	86	28	FA 15	26	4800	86	29																			
1.1	BN 100LB	8	15.0	68	0.64	3.65	3.2	1.7	1.7	95	24	FD 15	40	2500	4000	99	30	FA 15	40	4000	99	31																			
1.5	BN 112M	8	20.2	71	0.66	4.6	3.7	1.8	1.9	168	32	FD 06S	60	—	3000	177	42	FA 06S	60	3000	177	44																			
2.2	BN 132S	8	29.6	75	0.66	6.4	3.8	1.8	2.0	295	45	FD 56	75	—	2300	305	58	FA 06	75	2300	305	56																			
3	BN 132MA	8	40.4	76	0.69	8.3	3.9	1.6	1.8	370	53	FD 06	100	—	1900	394	69	FA 07	100	1900	406	74																			



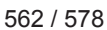
2/4P															3000/1500 min ⁻¹ - S1															50 Hz														
 P_n kW															freno c.c.															freno c.a.														
P _n				n	M _n	η	cosφ	In	Is	Ms	Ma	J _m	IM B5	Mod	Mb	Z _o	J _m	IM B5	Mod	Mb	Z _o	J _m	IM B5																					
kW				min ⁻¹	Nm	%		A			Mn	kgm ² x 10 ⁻⁴	kg		Nm	1/h	kgm ² x 10 ⁻⁴	kg		Nm	1/h	kgm ² x 10 ⁻⁴	kg																					
0.20	BN 63B	2	2700	0.71	55	0.82	0.64	3.5	2.1	1.9	2.9	4.4	FD 02	3.5	2200	2600	5100	6.1	FA 02	3.5	2600	5100	3.5	5.9																				
0.15		4	1350	1.06	49	0.67	0.66	2.6	1.8	1.7																																		
0.28	BN 71A	2	2700	0.99	56	0.82	0.88	2.9	1.9	1.7	4.7	4.4	FD 03	3.5	2100	2400	4800	7.1	FA 03	3.5	2400	4800	5.8	6.8																				
0.20		4	1370	1.39	59	0.72	0.68	3.1	1.8	1.7																																		
0.37	BN 71B	2	2740	1.29	56	0.82	1.16	3.5	1.8	1.8	5.8	5.1	FD 03	5.0	1400	2100	4200	7.8	FA 03	5.0	2100	4200	6.9	7.5																				
0.25		4	1390	1.72	60	0.73	0.82	3.3	2.0	1.9																																		
0.45	BN 71C	2	2780	1.55	63	0.85	1.21	3.8	1.8	1.8	6.9	5.9	FD 03	5.0	1400	2100	4200	8.6	FA 03	5.0	2100	4200	8.0	8.3																				
0.30		4	1400	2.0	63	0.73	0.94	3.6	2.0	1.9																																		
0.55	BN 80A	2	2800	1.9	63	0.85	1.48	3.9	1.7	1.7	15	8.2	FD 04	5.0	1600	2300	4000	12.1	FA 04	5.0	2300	4000	16.6	12.0																				
0.37		4	1400	2.5	67	0.79	1.01	4.1	1.8	1.9																																		
0.75	BN 80B	2	2780	2.6	65	0.85	1.96	3.8	1.9	1.8	20	9.9	FD 04	10	1400	1600	3600	13.8	FA 04	10	1600	3600	22	13.7																				
0.55		4	1400	3.8	68	0.81	1.44	3.9	1.7	1.7																																		
1.1	BN 90S	2	2790	3.8	71	0.82	2.73	4.7	2.3	2.0	21	12.2	FD 14	10	1500	1600	2800	16.4	FA 14	10	1600	2800	23	16.3																				
0.75		4	1390	5.2	66	0.79	2.08	4.6	2.4	2.2																																		
1.5	BN 90L	2	2780	5.2	70	0.85	3.64	4.5	2.4	2.1	28	14.0	FD 05	26	1050	1200	2000	20	FA 05	26	1200	2000	32	21																				
1.1		4	1390	7.6	73	0.81	2.69	4.7	2.5	2.2																																		
2.2	BN 100LA	2	2800	7.5	72	0.85	5.2	4.5	2.0	1.9	40	18.3	FD 15	26	600	900	2300	25	FA 15	26	900	2300	44	25																				
1.5		4	1410	10.2	73	0.79	3.8	4.7	2.0	2.0																																		
3.5	BN 100LB	2	2850	11.7	80	0.84	7.5	5.4	2.2	2.1	61	25	FD 15	40	500	900	2100	31	FA 15	40	900	2100	65	32																				
2.5		4	1420	16.8	82	0.80	5.5	5.2	2.2	2.2																																		
4	BN 112M	2	2880	13.3	79	0.83	8.8	6.1	2.4	2.0	98	30	FD 06S	60	—	700	107	40	FA 06S	60	700	107	107	42																				
3.3		4	1420	22.2	80	0.80	7.4	5.1	2.1	2.0																																		
5.5	BN 132S	2	2890	18.2	80	0.87	11.4	5.9	2.4	2.0	213	44	FD 56	75	—	350	223	57	FA 06	75	350	223	223	58																				
4.4		4	1440	29	82	0.84	9.2	5.3	2.2	2.0																																		
7.5	BN 132MA	2	2900	25	82	0.87	15.2	6.5	2.4	2.0	270	53	FD 06	100	—	350	280	66	FA 07	100	350	280	293	71																				
6		4	1430	40	84	0.85	12.1	5.8	2.3	2.1																																		
9.2	BN 132MB	2	2920	30	83	0.86	18.6	6.0	2.6	2.2	319	59	FD 07	150	—	300	342	75	FA 07	150	300	342	342	77																				
7.3		4	1440	48	85	0.85	14.6	5.5	2.3	2.1																																		



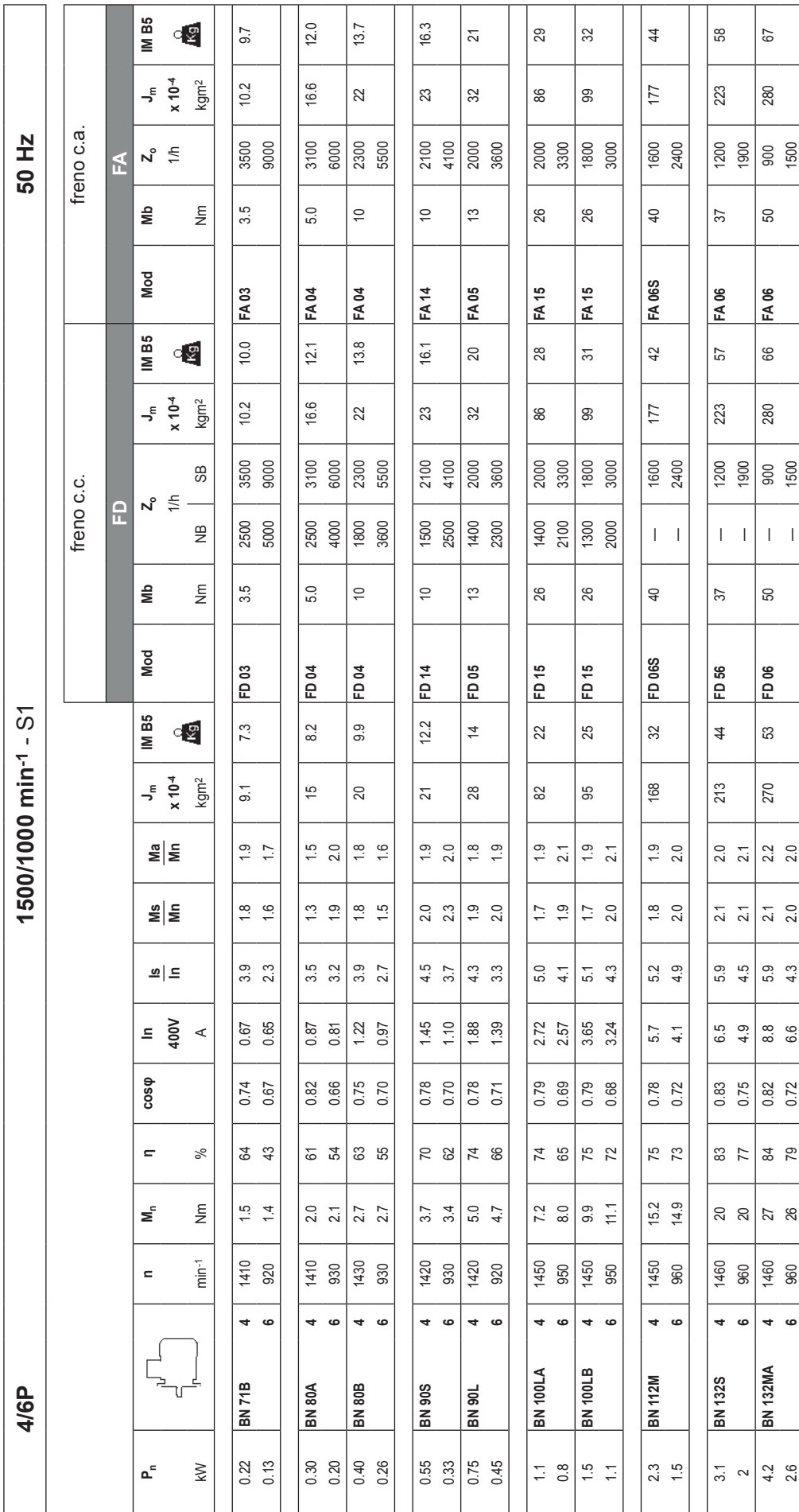
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														freno c.c.												freno c.a.											
														FD												FA											
														Mod	Mb	Z _o 1/h	J _m x 10 ⁻⁴ kgm ²	IM B5 	Ma Mn	Ms Mn	Is In	In 400V A	cosφ	η	M _n Nm	n min ⁻¹	P _n kW		P _n	Mb	Z _o 1/h	J _m x 10 ⁻⁴ kgm ²	IM B5 	Mod	Mb	Z _o 1/h	J _m x 10 ⁻⁴ kgm ²
0.25 0.08	BN 71A	2 6	2850 910	0.84 0.84	60 43	0.82 0.70	0.73 0.38	4.3 2.1	1.9 1.4	1.8 1.5	6.9	5.9	FD 03	1.75	1500 10000	8.0	8.6	FA 03	2.5	1700 13000	8.0	8.3															
0.37 0.12	BN 71B	2 6	2880 900	1.23 1.27	62 44	0.80 0.73	1.08 0.54	4.4 2.4	1.9 1.4	1.8 1.5	9.1	7.3	FD 03	3.5	1000 9000	10.2	10.0	FA 03	3.5	1300 11000	10.2	9.7															
0.55 0.18	BN 80A	2 6	2800 930	1.88 1.85	63 52	0.86 0.65	1.47 0.77	4.5 3.3	1.9 2.0	1.7 1.9	20	9.9	FD 04	5.0	1500 4100	22	13.8	FA 04	5.0	1800 6300	22	13.7															
0.75 0.25	BN 80B	2 6	2800 930	2.6 2.6	66 54	0.87 0.67	1.89 1.00	4.3 3.2	1.8 1.7	1.6 1.8	25	11.3	FD 04	5.0	1700 3800	27	15.2	FA 04	5.0	1900 6000	27	15.1															
1.10 0.37	BN 90L	2 6	2860 920	3.7 3.8	67 59	0.84 0.71	2.82 1.27	4.7 3.3	2.1 1.6	1.9 1.6	28	14.0	FD 05	13	1400 3400	32	20	FA 05	13	1600 5200	32	21															
1.5 0.55	BN 100LA	2 6	2880 940	5 5.6	73 64	0.84 0.67	3.53 1.85	5.1 3.5	1.9 1.7	2.0 1.8	40	18.3	FD 15	13	1000 2900	44	24	FA 15	13	1200 4000	44	25															
2.2 0.75	BN 100LB	2 6	2900 950	7.2 7.5	77 67	0.85 0.64	4.9 2.5	5.9 3.3	2.0 1.9	1.8 1.8	61	25	FD 15	26	700 2100	65	31	FA 15	26	900 3000	65	32															
3 1.1	BN 112M	2 6	2900 950	9.9 11.1	78 72	0.87 0.64	6.4 3.4	6.3 3.9	2.0 1.8	2.1 1.8	98	30	FD 06S	40	— —	107	40	FA 06S	40	1000 2600	107	32															
4.5 1.5	BN 132S	2 6	2910 960	14.8 14.9	78 74	0.84 0.67	9.9 4.4	5.8 4.2	1.9 2.0	1.8 2.0	213	44	FD 56	37	— —	223	57	FA 06	37	500 2100	223	58															
5.5 2.2	BN 132M	2 6	2920 960	18.0 22	78 77	0.87 0.71	11.7 5.8	6.2 4.3	2.1 2.1	1.9 2.0	270	53	FD 56	50	— —	280	66	FA 06	50	400 1900	280	67															

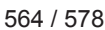


2/8P															3000/750 min ⁻¹ - S3 60/40%															50 Hz														
															freno c.c.															freno c.a.														
															FD										IM B5					FA														
P _n		n	M _n	η	cosφ	In	Is	$\frac{M_s}{M_n}$	$\frac{M_a}{M_n}$	J _m	IM B5	Mod	Mb	Z _o	J _m	IM B5	Mod	Mb	Z _o	J _m	IM B5																							
kW		min ⁻¹	Nm	%		A				kgm ²			Nm	1/h	kgm ²			Nm	1/h	kgm ²																								
0.25	BN 71A	2	2790	0.86	61	0.87	3.9	1.8	1.9	10.9	6.7	FD 03	1.75	1300	1400	12	9.4	FA 03	2.5	1400	12	9.1																						
0.06		8	680	0.84	31	0.61	2.0	1.8	1.9					10000	13000				13000																									
0.37	BN 71B	2	2800	1.26	63	0.86	3.9	1.8	1.9	12.9	7.7	FD 03	3.5	1200	1300	14	10.4	FA 03	3.5	1300	14	10.1																						
0.09		8	670	1.28	34	0.75	1.8	1.4	1.5					9500	13000				13000																									
0.55	BN 80A	2	2830	1.86	66	0.86	4.4	2.1	2.0	20	9.9	FD 04	5.0	1500	1800	22	13.8	FA 04	5.0	1800	22	13.7																						
0.13		8	690	1.80	41	0.64	2.3	1.6	1.7					5600	8000				8000																									
0.75	BN 80B	2	2800	2.6	68	0.88	4.6	2.1	2.0	25	11.3	FD 04	10	1700	1900	27	15.2	FA 04	10	1900	27	15.1																						
0.18		8	690	2.5	43	0.66	2.3	1.6	1.7					4800	7300				7300																									
1.10	BN 90L	2	2830	3.7	63	0.84	4.5	2.1	1.9	28	14.0	FD 05	13	1400	1600	32	20	FA 05	13	1600	32	21																						
0.28		8	690	3.9	48	0.63	2.4	1.8	1.9					3400	5100				5100																									
1.5	BN 100LA	2	2880	5.0	69	0.85	4.7	1.9	1.8	40	18.3	FD 15	13	1000	1200	44	25	FA 15	13	1200	44	25																						
0.37		8	690	5.1	46	0.63	1.84	2.1	1.6	1.6				3300	5000				5000																									
2.4	BN 100LB	2	2900	7.9	75	0.82	5.6	2.1	2.0	61	25	FD 15	26	550	700	65	31	FA 15	26	700	65	32																						
0.55		8	700	7.5	54	0.58	2.5	2.6	1.8	1.8				2000	3500				3500																									
3	BN 112M	2	2900	9.9	76	0.87	6.5	2.1	1.9	98	30	FD 06S	40	—	900	107	40	FA 06S	40	900	107	42																						
0.75		8	690	10.4	60	0.65	2.8	2.5	1.6	1.6				—	2900				2900																									
4	BN 132S	2	2870	13.3	73	0.84	9.4	2.3	2.4	213	44	FD 66	37	—	500	223	57	FA 06	37	500	223	58																						
1		8	690	13.8	66	0.62	3.5	2.9	1.9	1.8				—	3500				3500																									
5.5	BN 132M	2	2870	18.3	75	0.84	12.6	6.1	2.4	270	53	FD 06	50	—	400	280	66	FA 06	50	400	280	67																						
1.5		8	690	21	68	0.63	5.1	2.9	1.9	1.9				—	2400				2400																									

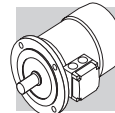


 **Bonfiglioli**
Riduttori



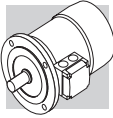


 **Bonfiglioli**
Riduttori



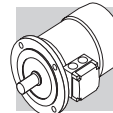
2P														3000 min ⁻¹ - S1												50 Hz											
														freno c.c.												freno c.a.											
														FD												FA											
														IM B5	J _m x 10 ⁻⁴ kgm ²	M _a M _n	M _s M _n	I _s I _n	I _n 400V A	cosφ	η (100%) %	η (75%) %	η (50%) %	IE1	M _n	n min ⁻¹		P _n kW	Mod	M _b Nm	Z ₀ 1/h	S _B	J _m x 10 ⁻⁴ kgm ²	IM B5	Mod	M _b Nm	Z ₀ 1/h
0.18	M 05A	2	2730	0.63	○	59.9	56.9	51.9	0.77	0.56	3.0	2.1	2.0	3.2	2.0	2.0	2.0	0.56	0.77	3900	4800	2.6	4.9	FA 02	1.75	4800	2.6	4.7									
0.25	M 05B	2	2740	0.87	○	66.0	64.8	64.8	0.76	0.72	3.3	2.3	2.3	3.6	2.3	2.3	2.3	0.72	0.76	3900	4800	3.0	5.3	FA 02	1.75	4800	3.0	5.1									
0.37	M 05C	2	2800	1.26	○	69.1	66.8	66.8	0.78	0.99	3.9	2.6	2.6	4.8	3.3	2.6	2.6	0.99	0.78	3600	4500	3.9	6.5	FA 02	3.5	4500	3.9	6.3									
0.55	M 15D	2	2820	1.86	○	76.0	75.8	74.8	0.76	1.37	5.0	2.9	2.8	5.8	4.1	2.8	2.8	1.37	0.76	2900	4200	5.3	8.5	FA 03	5	4200	5.3	8.2									
0.75	M 15A	2	2810	2.6	○	76.6	76.2	76.2	0.76	1.86	5.1	3.1	2.8	6.9	5.0	2.8	2.8	1.86	0.76	1900	3300	6.1	9.6	FA 03	5	3300	6.1	9.3									
1.1	M 25A	2	2800	3.8	●	76.4	76.2	75.0	0.81	2.57	4.8	2.8	2.4	8.8	9.0	2.4	2.4	2.57	0.81	1500	3000	10.6	11.9	FA 04	10	3000	10.6	12.6									
1.5	M 25B	2	2800	5.1	●	79.1	79.5	77.2	0.81	3.4	4.9	2.7	2.4	10.6	11.4	2.4	2.4	3.4	0.81	1300	2600	13.0	9.9	FA 04	15	2600	13.0	14.4									
2.2	M 35A	2	2880	7.3	●	82.7	82.1	81.0	0.80	4.8	6.3	2.9	2.7	15.5	24	2.7	2.7	4.8	0.80	1100	2400	28	22	FA 15	26	2400	28	23									
3	M 35A	2	2860	10.0	●	81.5	81.3	77.4	0.79	6.7	5.6	2.6	2.2	18.7	31	2.2	2.2	6.7	0.79	700	1600	35	25	FA 15	26	1600	35	26									
4	M 35B	2	2870	13.3	●	83.1	83.0	77.8	0.80	8.7	5.8	2.7	2.5	22	39	2.5	2.5	8.7	0.80	450	900	43	28	FA 15	40	900	43	29									
5.5	M 45A	2	2890	18.2	●	84.7	84.5	81.2	0.84	11.2	5.9	2.6	2.2	33	101	2.2	2.2	11.2	0.84	—	600	112	46	FA 06	50	600	112	47									
7.5	M 45B	2	2900	25	●	86.5	86.3	84.4	0.85	14.7	6.4	2.6	2.2	40	145	2.2	2.2	14.7	0.85	—	550	154	53	FA 06	50	550	154	54									
9.2	M 45A	2	2930	30	●	87.0	86.5	83.6	0.86	17.7	6.7	2.8	2.3	51	178	2.3	2.3	17.7	0.86	—	430	189	64	FA 06	75	430	189	65									
11	M 45C	2	2920	36	●	87.6	87.0	86.0	0.88	20.6	6.9	2.9	2.5	60	210	2.5	2.5	20.6	0.88																		
15	M 55B	2	2930	49	●	89.6	89.4	88.0	0.86	28.1	7.1	2.6	2.3	70	340	2.3	2.3	28.1	0.86																		
18.5	M 55C	2	2930	60	●	90.4	90.1	89.0	0.86	34	7.6	2.7	2.3	83	420	2.3	2.3	34	0.86																		
22	M 55A	2	2930	72	●	89.9	89.7	89.5	0.88	40	7.8	2.6	2.4	95	490	2.4	2.4	40	0.88																		

○ = n.a. ● = IE1



4P														1500 min ⁻¹ - S1												50 Hz																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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														P _n		n	M _n	IE1	η (100%)	η (75%)	η (50%)	cosφ	In 400V	Is In	Ms Mn	Ma Mn	J _m x 10 ⁻⁴ kgm ²	IM B5 	Mod	Mb	Z ₀ 1/h	NB	SB	J _m x 10 ⁻⁴ kgm ²	IM B5 	Mod	Mb	Z ₀ 1/h	J _m x 10 ⁻⁴ kgm ²	IM B5 																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																								
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0.09	M 0B	4	1350	0.64	○	51.7	47.6	42.9	0.60	0.42	2.6	2.5	2.4	1.5	2.9																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																	

○ = n.a. ● = IE1

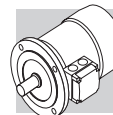


6P														1000 min ⁻¹ - S1														50 Hz													
freno c.c.																												freno c.a.													
FD														FA																											
P _n		n	M _n	IE1	η (100%)	η (75%)	η (50%)	cosφ	In 400V	Is In	Ms Mn	Ma Mn	J _m x 10 ⁻⁴ kgm ²	IM B5 	Mod	Mb	Z ₀ 1/h	J _m x 10 ⁻⁴ kgm ²	IM B5 	Mod	Mb	Z ₀ 1/h	J _m x 10 ⁻⁴ kgm ²	IM B5 																	
0.09	M 05A	6	0.98	○	41.0	41.0	32.9	0.53	0.60	2.1	2.1	1.8	3.4	4.3	FD 02	3.5	9000	14000	4.0	6.0	FA 02	3.5	14000	4.0	5.8																
0.12	M 05B	6	1.32	○	45.0	44.0	41.8	0.60	0.64	2.1	1.9	1.7	3.7	4.6	FD 02	3.5	9000	14000	4.3	6.3	FA 02	3.5	14000	4.3	6.1																
0.18	M 15C	6	1.91	○	55.0	55.5	51.0	0.69	0.68	2.6	1.9	1.7	8.4	5.1	FD 03	5	8100	13500	9.5	7.8	FA 03	5	13500	9.5	7.5																
0.25	M 15D	6	2.7	○	62.0	58.5	51.4	0.71	0.82	2.6	1.9	1.7	10.9	6.3	FD 03	5	7800	13000	12	9.0	FA 03	5	13000	12	8.7																
0.37	M 15A	6	3.9	○	66.0	60.0	53.3	0.69	1.17	3.0	2.4	2.0	12.9	7.3	FD 53	7.5	5100	9500	14	10.0	FA 03	7.5	9500	14	9.7																
0.55	M 25A	6	5.7	○	70.0	69.8	64.3	0.68	1.67	3.9	2.6	2.2	25	10.6	FD 04	15	4800	7200	27	14.5	FA 04	15	7200	27	14.4																
0.75	M 25B	6	7.8	●	70.0	70.0	64.4	0.65	2.38	3.8	2.5	2.2	28	11.5	FD 04	15	3400	6400	30	15.4	FA 04	15	6400	30	15.3																
1.1	M 35A	6	11.4	●	75.0	74.0	72.0	0.72	2.9	4.3	2.0	1.8	33	17	FD 15	26	2700	5000	37	23	FA 15	26	5000	37	24																
1.5	M 35A	6	15.2	●	75.2	74.2	70.3	0.72	4.0	4.1	2.1	2.0	82	21	FD 15	40	1900	4100	86	27	FA 15	40	4100	86	28																
1.85	M 35B	6	19.0	●	76.6	72.8	62.6	0.73	4.8	4.6	2.1	2.0	95	23	FD 15	40	1700	3600	99	29	FA 15	40	3600	99	30																
2.2	M 35C	6	23	●	77.7	76.8	72.4	0.71	5.8	4.7	2.3	2.1	95	23	FD 55	55	—	1900	99	29	FA 15	40	1900	99	30																
3	M 45A	6	30	●	79.7	77.0	75.1	0.76	7.1	5.1	1.9	1.8	216	34	FD 56	75	—	1400	226	47	FA 06	75	1400	226	48																
4	M 45A	6	40	●	81.4	81.5	79.5	0.77	9.2	5.5	2.0	1.8	295	43	FD 06	100	—	1200	305	56	FA 07	100	1200	305	57																
5.5	M 45B	6	56	●	83.1	80.9	79.1	0.78	12.2	6.1	2.1	1.9	383	54	FD 07	150	—	1050	406	70	FA 07	150	1050	406	72																
7.5	M 55A	6	75	●	85.0	85.0	84.8	0.81	15.7	5.9	2.2	2.0	740	69	FD 08	170	—	900	815	98	FA 08	170	900	800	98																
11	M 55B	6	109	●	86.4	86.5	85.9	0.81	22.7	6.6	2.5	2.3	970	89	FD 08	200	—	800	1045	119	FA 08	200	800	1030	118																

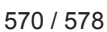
○ = n.a. ● = IE1



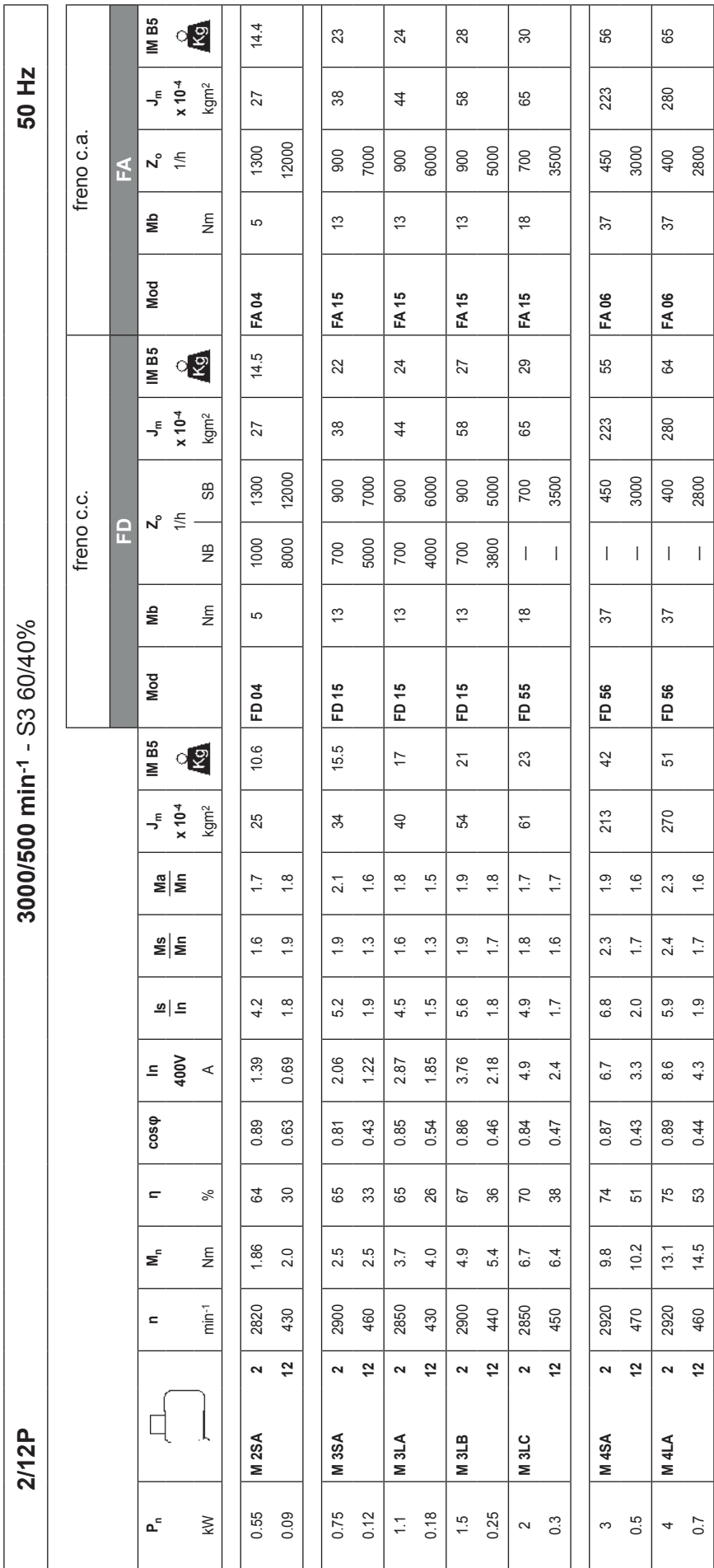
 **Bonfiglioli**
Riduttori

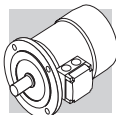


2/6P																				3000/1000 min ⁻¹ - S3 60/40%										50 Hz									
										freno c.c.										freno c.a.																			
P _n		n	M _n	η	cosφ	I _n 400V A	Is In	Ms Mn	Ma Mn	J _m x 10 ⁻⁴ kgm ²	IM B5  Kg	Mod	Mb	FD				J _m x 10 ⁻⁴ kgm ²	IM B5  Kg	Mod	Mb	FA																	
														Z _o 1/h	NB	SB	Z _o 1/h					Nm	FA 03	FA 04	FA 15	FA 06													
0.25	M 1SA	2	0.84	60	0.82	0.73	4.3	1.9	1.8	6.9	5.5	FD 03	1.75	1500	1700	1700	1700	8.0	8.2	FA 03	1.75	1700	1700	1700	8.0	7.9													
0.08	6	910	0.84	43	0.70	0.38	2.1	1.4	1.5					10000	13000	13000	13000					13000	13000	13000															
0.37	M 1LA	2	1.23	62	0.80	1.08	4.4	1.9	1.8	9.1	6.9	FD 03	3.5	1000	1300	1300	1300	10.2	9.6	FA 03	3.5	1300	1300	1300	10.2	9.3													
0.12	6	900	1.27	44	0.73	0.54	2.4	1.4	1.5					9000	11000	11000	11000					11000	11000	11000															
0.55	M 2SA	2	1.88	63	0.86	1.47	4.5	1.9	1.7	20	9.2	FD 04	5	1500	1800	1800	1800	22	13.1	FA 04	5	1800	1800	1800	22	13.0													
0.18	6	930	1.85	52	0.65	0.77	3.3	2.0	1.9					4100	6300	6300	6300					6300	6300	6300															
0.75	M 2SB	2	2.6	66	0.87	1.89	4.3	1.8	1.6	25	10.6	FD 04	5	1700	1900	1900	1900	27	14.5	FA 04	5	1900	1900	1900	27	14.4													
0.25	6	930	2.6	54	0.67	1.00	3.2	1.7	1.8					3800	6000	6000	6000					6000	6000	6000															
1.1	M 3SA	2	3.7	71	0.82	2.73	4.9	1.8	1.9	34	15.5	FD 15	13	1000	1300	1300	1300	38	22	FA 15	13	1300	1300	1300	38	23													
0.37	6	930	3.8	63	0.70	1.21	3.1	1.5	1.8					3500	5000	5000	5000					5000	5000	5000															
1.5	M 3LA	2	5.0	73	0.84	3.53	5.1	1.9	2.0	40	17	FD 15	13	1000	1200	1200	1200	44	24	FA 15	13	1200	1200	1200	44	24													
0.55	6	940	5.6	64	0.67	1.85	3.5	1.7	1.8					2900	4000	4000	4000					4000	4000	4000															
2.2	M 3LB	2	7.2	77	0.85	4.9	5.9	2.0	2.0	61	23	FD 15	26	700	900	900	900	65	29	FA 15	26	900	900	900	65	30													
0.75	6	950	7.5	67	0.64	2.5	3.3	1.9	1.8					2100	3000	3000	3000					3000	3000	3000															
3	M 4SA	2	9.9	74	0.88	6.6	5.6	2.0	2.1	170	36	FD 56	37	—	600	600	600	182	48	FA 06	37	600	600	600	182	50													
1.1	6	960	10.9	73	0.68	3.2	4.5	2.2	2.0					—	2200	2200	2200					2200	2200	2200															
4.5	M 4SB	2	14.8	78	0.84	9.9	5.8	1.9	1.8	213	42	FD 56	37	—	500	500	500	223	55	FA 06	37	500	500	500	223	56													
1.5	6	960	14.9	74	0.67	4.4	4.2	1.9	2.0					—	2100	2100	2100					2100	2100	2100															
5.5	M 4LA	2	18.0	78	0.87	11.7	6.2	2.1	1.9	270	51	FD 06	50	—	400	400	400	280	64	FA 06	50	400	400	400	280	65													
2.2	6	960	22	77	0.71	5.8	4.3	2.1	2.0					—	1900	1900	1900					1900	1900	1900															



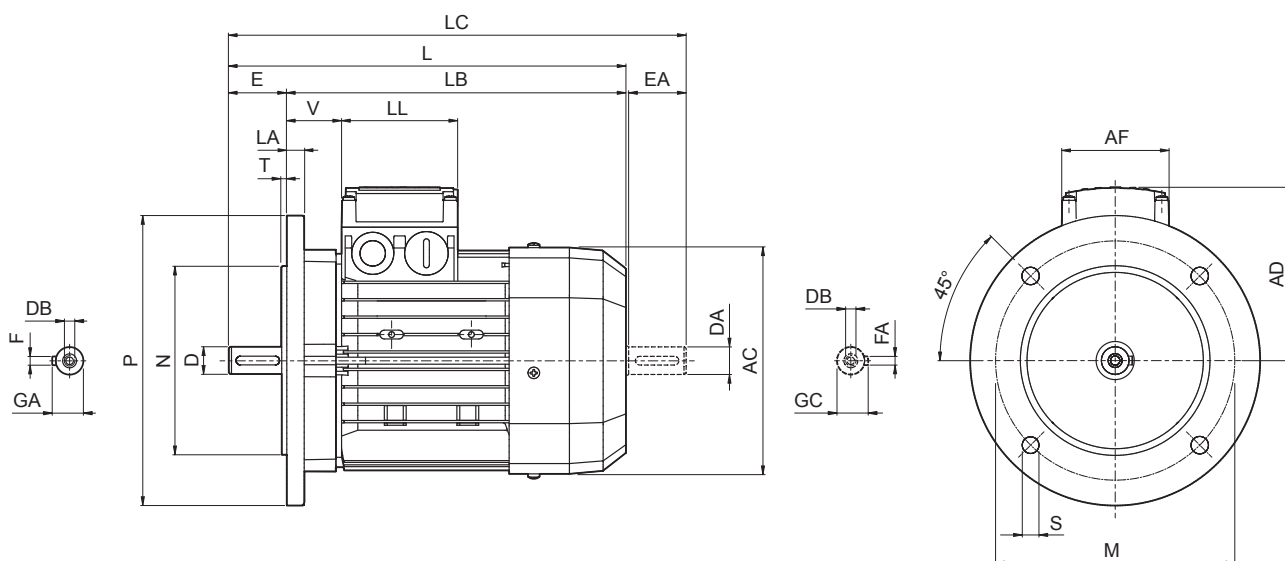
Bonfiglioli
Riduttori





M11 DIMENSIONES MOTORES

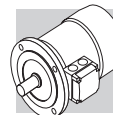
BN - IM B5



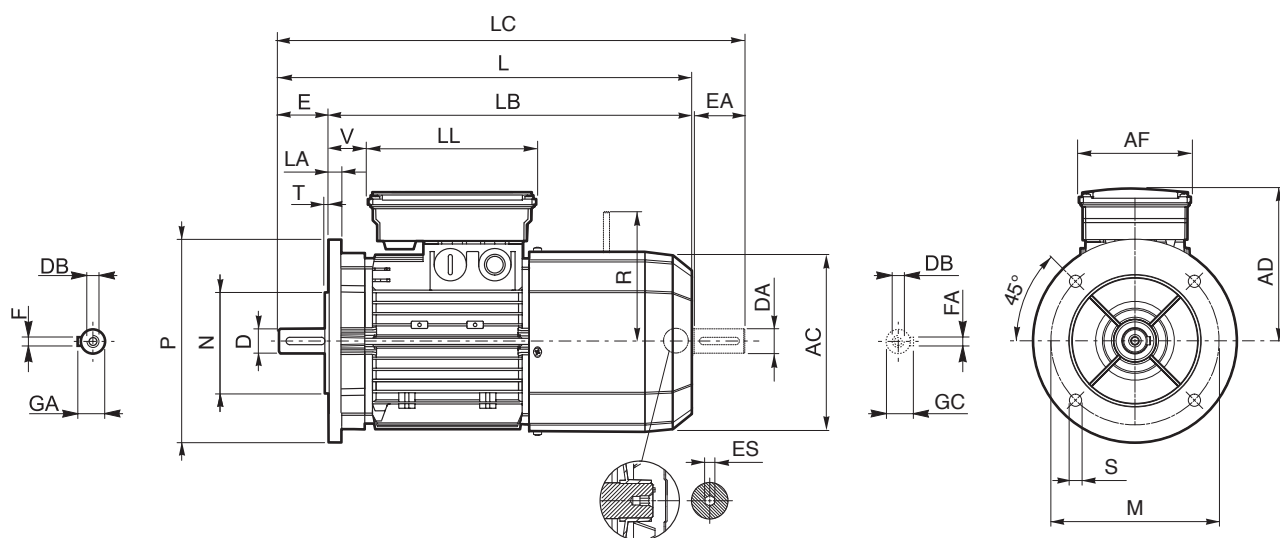
	Eje					Brida						Motor														
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V							
BN 56	9	20	M3	10.2	3	100	80	120	7	3	8	110	185	165	207	91	74	80	34							
BN 63	11	23	M4	12.5	4	115	95	140	9.5		10	121	207	184	232	95			26							
BN 71	14	30	M5	16	5	130	110	160				11.5	11.5	138	249	219			281	108	37					
BN 80	19	40	M6	21.5	6	165	130	200	11.5	14	156			274	234	315			119	98	98	38				
BN 90	24	50	M8	27	8						215	180	250	14	4	176	326	276	378			133	44			
BN 100	28	60	M10	31		265	230	300	18.5	5						20	258	493	413			576	193	118	118	50
BN 112																										15
BN 132	38	80	M12	41	10	265	230	300			18.5	5	15	310	596	486	680	245	187	187	58					
BN 160 MR	42 38 ⁽¹⁾	110 80 ⁽¹⁾	M16 M12 ⁽¹⁾	45 41 ⁽¹⁾	12 10 ⁽¹⁾	300	250	350	562	452											645	193	118			118
BN 160 M														18	348	708	598							823	261	
BN 160 L									310	640			530					724			722	612				
BN 180 M	48 38 ⁽¹⁾	110 110 ⁽¹⁾	M16 M16 ⁽¹⁾	51.5 41 ⁽¹⁾	14 10 ⁽¹⁾	350	300	400	18	348			708	598	823	261	66									
BN 180 L	48 42 ⁽¹⁾			51.5 45 ⁽¹⁾	14 12 ⁽¹⁾																					
BN 200 L	55 42 ⁽¹⁾			M20 M16 ⁽¹⁾	59 45 ⁽¹⁾													16 12 ⁽¹⁾								

N.B.:

1) Estas dimensiones están referidas a la segunda extremidad del eje.



BN_FD ; IM B5



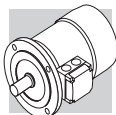
	Eje					Brida						Motor									
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	R	ES
BN 63	11	23	M4	12.5	4	115	95	140	9.5	3	10	121	272	249	297	122	98	133	14	96	5
BN 71	14	30	M5	16	5	130	110	160	9.5	3.5		138	310	280	342	135			25	103	
BN 80	19	40	M6	21.5	6	165	130	200	11.5		11.5	156	346	306	388	146			41	129	
BN 90 S	24	50	M8	27	8					176		409	359	461	149	110	165	39	160		
BN 90 L											146										
BN 100	28	60	M10	31		215	180	250	14	4	14	195	458	398	521				158	165	73
BN 112					15						219	484	424	547	173						
BN 132	38	80	M12	41	10						265	230	300	20	258	603	523	686	210		
BN 160 MR	42 38 ⁽¹⁾	110 80 ⁽¹⁾	M16 M12 ⁽¹⁾	45 41 ⁽¹⁾	12 10 ⁽¹⁾	300	250	350	18.5	5	15	310	736	626	820	245	187	187	51	266	—
BN 160 M																					
BN 160 L	42 38 ⁽¹⁾			48 38 ⁽¹⁾	51.5 41 ⁽¹⁾							14 10 ⁽¹⁾	350	300	400				18.5	18	
BN 180 M	780	670	864																		
BN 180 L	48 42 ⁽¹⁾	110 ⁽¹⁾	M16 M16 ⁽¹⁾	51.5 45 ⁽¹⁾	14 12 ⁽¹⁾	350	300	400	18.5	18	348	866				756	981	261			64
BN 200 L	55 42 ⁽¹⁾		M20 M16 ⁽¹⁾	59 45 ⁽¹⁾	16 12 ⁽¹⁾																

N.B.:

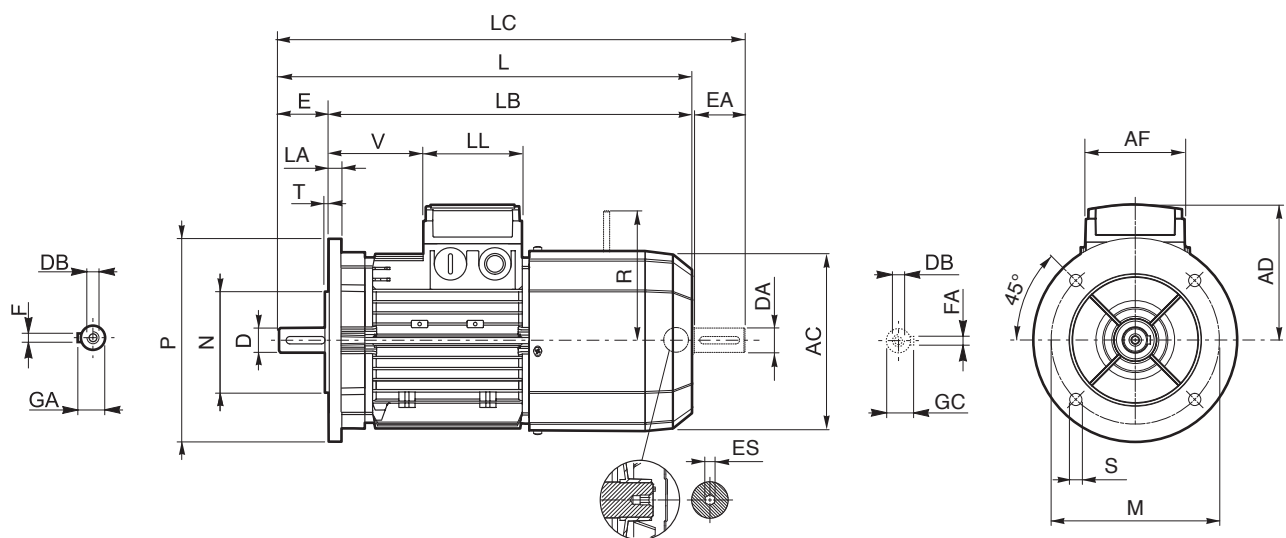
1) Estas dimensiones están referidas a la segunda extremidad del eje.

2) Para el freno FD07 la cota R = 226

El taladro hexagonal ES no está presente en la opción PS.



BN_FA - IM B5



	Eje					Brida						Motor												
	D DA	E EA	DB	GA GC	F FA	M	N	P	S	T	LA	AC	L	LB	LC	AD	AF	LL	V	R	ES			
BN 63	11	23	M4	12.5	4	115	95	140	9.5	3	10	121	272	249	297	95	74	80	26	116	5			
BN 71	14	30	M5	16	5	130	110	160		138		310	280	342	108	68			124					
BN 80	19	40	M6	21.5	6	165	130	200		11.5		3.5	11.5	156	346	306			388	119		83	134	
BN 90	24	50	M8	27	8				215		180			250	14	4	20	176	409	359	461	133	98	98
BN 100	28	60	M10	31		14	195	458		398		521	142					119	128	198				
BN 112				15		219	484	424		547		157	128					198						
BN 132	38	80	M12	41	10	265	230	300	18.5	5	15	258	603	523	686	210	140	188	46	200 ⁽²⁾	—			
BN 160 MR	42 38 ⁽¹⁾	110 80 ⁽¹⁾	M16 M12 ⁽¹⁾	45 41 ⁽¹⁾	12 10 ⁽¹⁾	300	250	350					672	562	755	193	118	118	218	217				
BN 160 M												310	736	626	820	245	187	187	51	247				
BN 160 L													780	670	864									
BN 180 M	48 38 ⁽¹⁾	110 80 ⁽¹⁾	M16 M12 ⁽¹⁾	51.5 41 ⁽¹⁾	14 10 ⁽¹⁾	300	250	350	18.5	5	15	310	780	670	864	245	187	187	51	247	—			

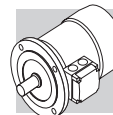
N.B.:

1) Estas dimensiones están referidas a la segunda extremidad del eje.

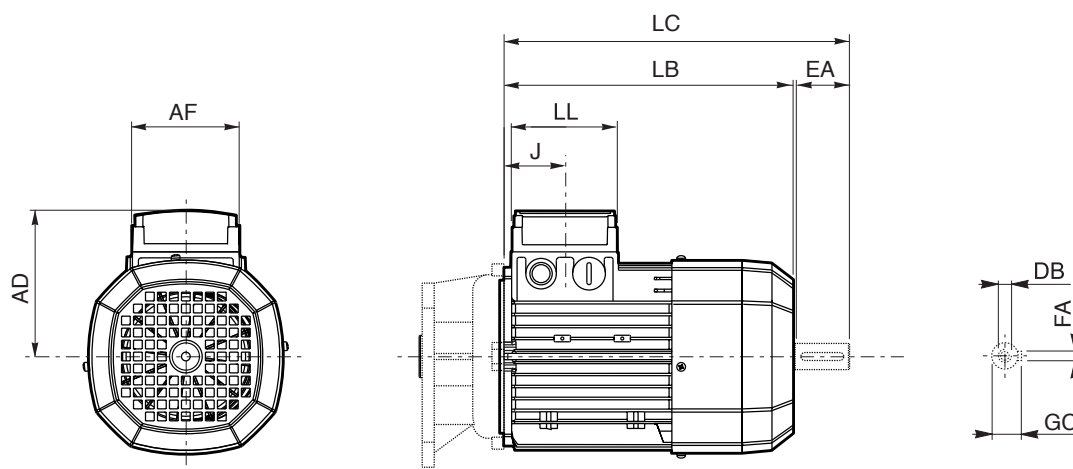
2) Para el freno FA07 la cota R = 217

Las dimensiones AD, AF, LL y V relativas a la caja de bornes de los motores BN...FA con alimentación separada (opción SA) son iguales a las de los motores BN...FD del mismo tamaño.

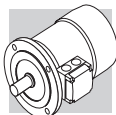
El taladro hexagonal ES no está presente en la opción PS.



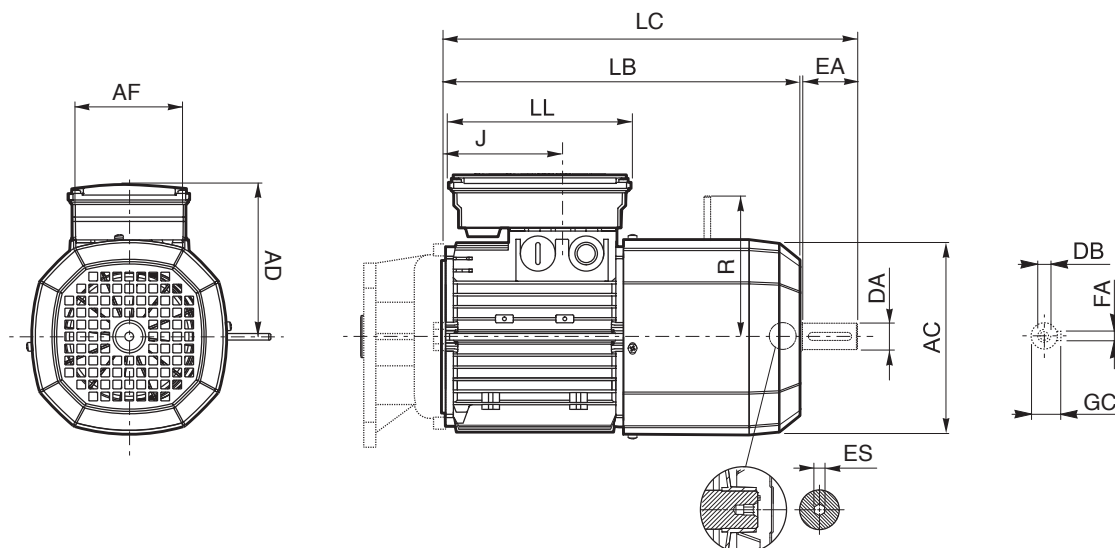
M



	Segunda extremidad del eje					Motor						
	DA	EA	DB	FA	GC	AC	LB	LC	AF	LL	J	AD
M 0	9	20	M3	3	10.2	110	133	155	74	80	42	91
M 05	11	23	M4	4	12.5	121	165	191			48	95
M 1	14	30	M5	5	16	138	187	219			45	108
M 2 S	19	40	M6	6	21.5	156	202	245			44	119
M 3 S	28	60	M10	8	31	195	230	293	98	98	53.5	142
M 3 L							262	325				
M 4	38	80	M12	10	41	258	361	444	118	118	64.5	193
M 4 LC							396	479				
M 5 S						310	418	502	187	187	77	245
M 5 L							462	546				



M_FD

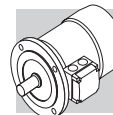


	Segunda extremidad del eje					Motor								
	DA	EA	DB	FA	GC	AC	LB	LC	AF	LL	J	AD	R	ES
M 05	11	23	M4	4	12.5	121	231	256	98	133	48	122	96	5
M 1	14	30	M5	5	16	138	248	280			73	135	103	
M 2 S	19	40	M6	6	21.5	156	272	314			88	146	129	
M 3 S	28	60	M10	8	31	195	326	389	110	165	124.5	158	160	6
M 3 L							353	416						
M 4	38	80	M12	10	41	258	470	553	140	188	185.5	210	204 (1)	
M 4 LC							495	578			64.5		226	
M 5 S						310	558	642	187	187	77	245	266	—
M 5 L							602	686						

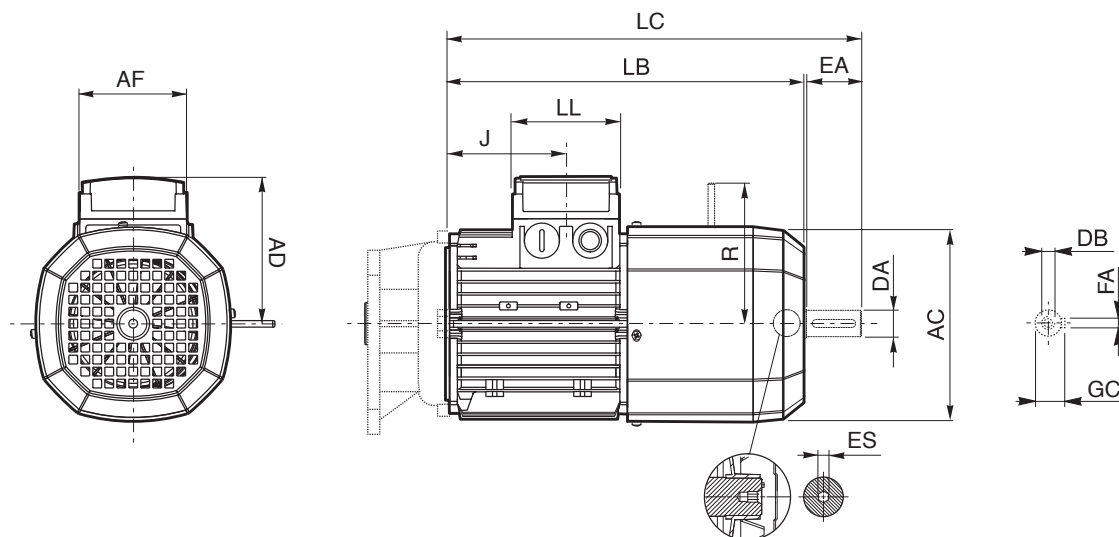
N.B.:

1) Para el freno FD07 la cota R = 226

El taladro hexagonal ES no está presente en la opción PS.



M_FA



	Segunda extremidad del eje					Motor									
	DA	EA	DB	FA	GC	AC	LB	LC	AF	LL	J	AD	R	ES	
M 05	11	23	M4	4	12.5	121	231	256	74	80	48	95	116	5	
M 1	14	30	M5	5	16	138	248	280			73	108	124		
M 2 S	19	40	M6	6	21.5	156	272	314			88	119	134		
M 3 S	28	60	M10	8	31	195	326	389	98	98	124.5	142	160	6	
M 3 L							353	416							
M 4	38	80	M14	10	41	258	470	553	140	188	185.5	210	200 (1)		
M 4 LC							495	578			64.5		217		
M 5 S			M12			310	558	642	187	187	77	245	247		—
M 5 L							602	686							

N.B.:

1) Para el freno FA07 la cota R = 217.

Las dimensiones AD, AF, LL y V relativas a la caja de bornes de los motores M..FA con alimentación separada (opción SA) son iguales a las de los motores M...FD del mismo tamaño.

El taladro hexagonal ES no está presente en la opción PS.



ÍNDICE DE REVISIONES

BR_CAT_CAFS_STD_SPA_R11_1	
	Descripción
10	Capítulo de lubricación actualizado.
24, 166, 322, 450	Opciones de los reductores actualizadas.
277	Tabla de medidas de reductor A 05...P(IEC) con entrada P80 corregida.
326...335	Capítulo “Reductores ortogonales serie a con directiva Atex” actualizado.

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