La Solución en Automatismos

KEB

DISAI
Automatic Systems
T· 962 448 450 www.disai.net

COMBIDRIVE

Indice

Designación del tipo

La designación del tipo para motorreductores describe la construcción de la unidad empezando por el lado de salida.

1. Reductor

La designación del reductor consiste en el tipo de reductor, talla del reductor y número de etapas de reducción

Tipo de reductor:
- G – Reductor de engranajes helicoidales
- F – Reductor de ejes paralelos
- S – Reductor de tornillo sin fin
- K – Reductor de engranajes cónicos
- ZG – Reductor de engranajes helicoidales

p.e. F4.3 designa un reductor de ejes paralelos, talla 4, tres etapas

2. Reductor – Opciones

Reductor tipo G:
- A – Versión con pie
- B – Versión con brida B14
- C – Versión con brida B5

Reductor tipo F:
- A – Versión con eje hueco
- B – Versión con brida B14
- C – Versión con brida B5
- S – Eje hueco con disco de apriete
- V – Eje sólido con chaveta
- G - Elementos de goma

Reductores tipos S, K:
- A – Versión con pie
- B – Versión con brida B14
- C – Versión con brida B5
- S – Eje hueco con disco de apriete
- V – Eje sólido con chaveta
- T1 – Brazo de torsión

3. Motor / Entrada reductor

La designación para el motor consiste en el tipo de motor, tamaño constructivo y número de polos
p.e. DA90L4 designa un motor tipo DA, tamaño 90L, 4-polos

Para reductores sin motor sigue la descripción de la entrada del reductor
- -W – Eje de entrada libre
- -M IEC... – Adaptador para motor IEC-estándar, en ... se dan el tamaño constructivo del motor y el tipo de brida
- -M S4... – Adaptador para KEB-servo motor S4, en ... se da el tamaño del motor

4. Motor – Opciones

- B - Freno
- BMB – Freno con palanca
- F - Ventilación forzada
- I - Encoder incremental
- TW – Sensor de temperatura PTC
- TS - Termo-relé

Ejemplo:

F5.3ASG DA80G4 B TW
Reductor de ejes paralelos F, talla 5, tres etapas, versión con eje hueco, con disco de apriete, elementos de goma,
con motor DA, tamaño constructivo 80, 4-polos, freno y sensor de temperatura PTC

G5.2A –M IEC132B5
Reductor de engranajes helicoidales G, talla 5, dos etapas, versión con pie,
con adaptador para motor IEC estándar, tamaño constructivo 132, brida B5

Para la total identificación de motorreductores, debe agregarse información adicional al tipo de designación.

Motorreductores G, F, S, K, ZG

Selección del producto
Los siguientes parámetros son necesarios para una única identificación de un motorreductor.
- Designación del tipo
- Potencia [kW]
- Relación de reducción
- Velocidad del motor
- Velocidad de salida
- Tensión / Frecuencia
- Posición de montaje
- Posición de la caja de terminales
- Opciones de motor (p.e. par del freno...).

Para versiones modificadas, son necesarios más parámetros, p.e.:
- Dimensiones del eje de salida y de la brida
- Clase de aislamiento
- Protección estándar
- Fuerzas radiales y axiales en el eje de salida del reductor
- Ciclo de trabajo
- Arranques por hora
- Condiciones climáticas anormales
- Color

Potencia y par
Los valores indicados en la tabla de selección son válidos para las condiciones siguientes:
Ciclo de trabajo S1
Temperatura ambiente máxima +40°C
Altitud de instalación hasta 2000 m sobre el nivel del mar

Protección estándar / Clase de aislamiento
En la versión estándar, los motorreductores son suministrados con protección estándar IP55 (motores con freno IP54) y aislamiento clase F.
Valores límite
105°C temperatura límite (con temperatura del aire +40°C),
155°C máxima temperatura permitida en continuo

Tensión / Frecuencia
En la versión estándar, los motorreductores son suministrados para las siguientes tensiones:
- 230/400 V Δ/Y 50 Hz
  puede ser usado para 220-240/380-420 V Δ/Y 50 ó 60 Hz
  275/480 V Δ/Y 60 Hz *) ó 265-290/460-500 V Δ/Y 60 Hz *)
- 400/690 V Δ/Y 50 Hz
  puede ser usado para 380-420/660-690 V Δ/Y 50 ó 60 Hz,
  480 V 60 Hz *) ó 460-500 V Δ60 Hz *)
- 290/500 V Δ/Y 50 Hz
- 500 V Δ 50 Hz

*) Potencia y velocidad aumentan alrededor del 20%.
Están disponibles diferentes tensiones y frecuencias.

Colores
En la versión estándar, los motorreductores están preparados con un baño de pintura gris y acabado con varniz alkyd azul-gris secado con aire (RAL 7031). Acabados especiales bajo demanda.
Los motorreductores son apropiados para su uso bajo condiciones climáticas moderadas, instalación interior o en exterior bajo tejadillo. Para condiciones climáticas extremas (grupo climático universal) e instalación exterior está disponible Pintado Universal.

Lubricación
En general, los motorreductores se suministran llenos de aceite para su posición de montaje y temperatura ambiente según pedido. Si no es dada esta información, los reductores son suministrados con aceite CLP 220 (para reductores de tornillo sin fin CLP460) para las posiciones de montaje B3/B14/B5, o H1. Si el reductor va a ser usado en una posición de montaje diferente de la indicada en la placa de características, la cantidad de lubricante tendrá que ser ajustada.

Lubricantes Normales:

Tipo de lubricante	Designación	Viscosidad cinemática a 40°C [mm²/s]	Temperatura ambiente [°C]
Reductores -Helicoidales, -Ejes paralelos y -Engranajes cónicos:			
Aceite mineral CLP	ISO VG 220	198...242	-5...+40
Reductores de tornillo sin fin:			
Aceite sintético	ISO VG 460	414...506	-30...+140
Rodamientos:			
Grasa	K 2 N-30		-30...+100

Los siguientes reductores están provistos con lubricación permanente:
G1.2, G2.2, G3.2, G3.3, S0.2, S1.2, S2.2, F3.2, F3.3, K3.3, K3.4

Rendimiento de los reductores de tornillo sin fin
En los nuevos reductores de tornillo helicoidal los flancos de los dientes no están completamente alisados. El rendimiento es menor que después del rodaje. Durante dos arranques el rendimiento decrece alrededor del 6%. El rodaje concluye esencialmente después de 24 horas. Los rendimientos nominales son alcanzados si:
- el reductor ha sido rodado completamente,
- el reductor ha alcanzado la temperatura nominal de operación,
- es utilizado el lubricante recomendado,
- el reductor está trabajando con la carga nominal.

Para varias tallas de reductor son usadas las siguientes relaciones del tornillo sin fin:
S0: 1/39 (i≥112.67) 2/28 (i=85.56..16.0) 3/22 (i≤13.85)
S1: 1/40 (i≥222.22) 2/29 (i≤177.625)
S2, S3, S4: 2/30

Motorreductores para muy baja velocidad
Debido a las grandes relaciones de reducción, estos motorreductores pueden dar altísimos pares de salida. Tenga en cuenta, al seleccionar el accionamiento, que el par de salida permitido en el reductor nunca será excedido durante la operación.

Dimensiones página de notas
Si en la hoja de dimensiones no es indicado diferente, son usadas las siguientes tolerancias:

Tolerancias de la altura de los ejes
<250mm: -0.5mm ≥250mm: -1mm

Tolerancias del diámetros de los ejes
Diámetro ≤50mm: ISO k6 Diámetro >50mm: ISO m6

Bridas - Tolerancia del centrado
centrado≤230mm: ISO j6 centrado>230mm: ISO h6

Dimensiones kB y hL para motorreductores con freno.

Posición de montaje

▲ Tapón filtro de aceite y respiradero

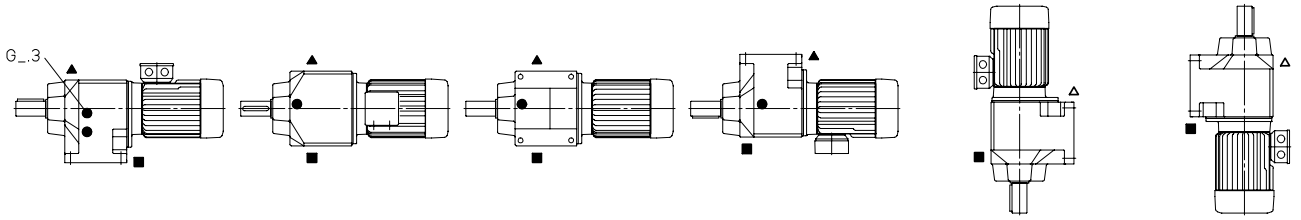
● Tapón de nivel de aceite

■ Tapón de drenaje

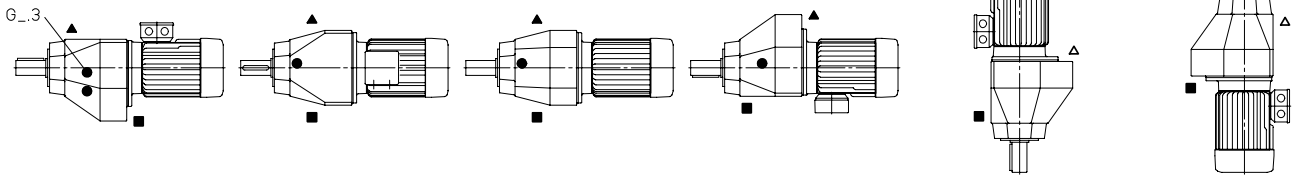
△ Tapón filtro de aceite

Reductores de engranajes helicoidales G

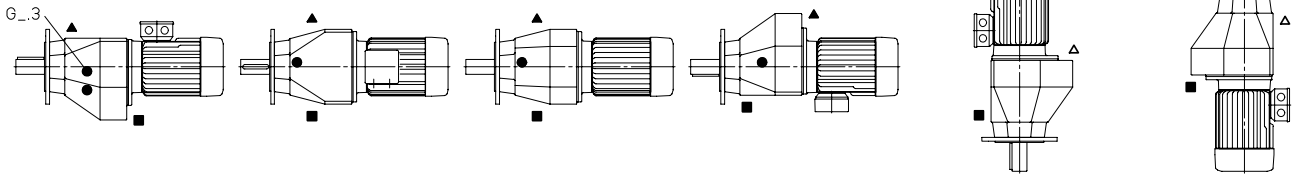
B3 **B6** **B7** **B8** **V5** **V6**



B14 **B14/90** **B14/270** **B14/180** **V18** **V19**

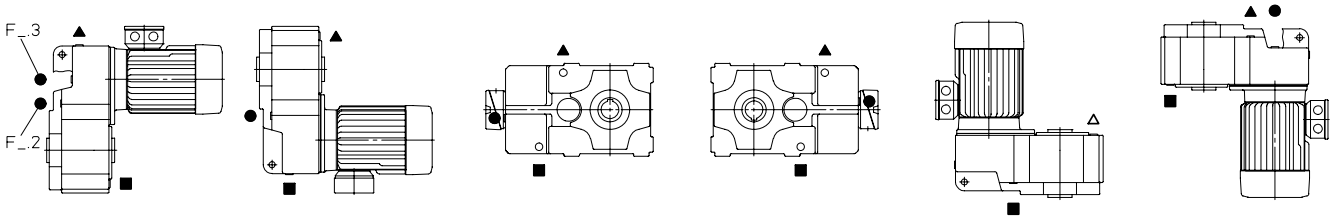


B5 **B5/90** **B5/270** **B5/180** **V1** **V3**



Reductores de ejes paralelos F

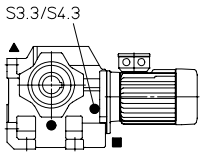
H1 **H2** **H3** **H4** **H5** **H6**



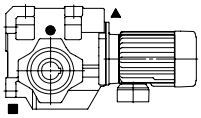
Posición de montaje

Reductores de tornillo sin fin S

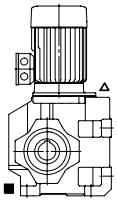
H1



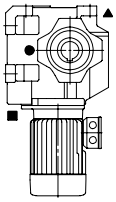
H2



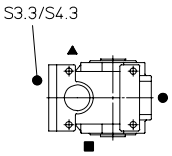
H3



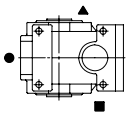
H4



H5

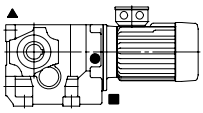


H6

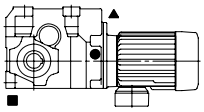


Reductores de engranajes cónicos K

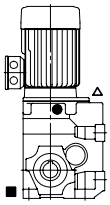
H1



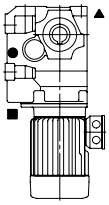
H2



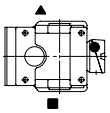
H3



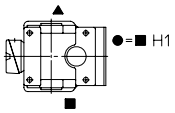
H4



H5

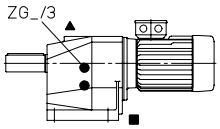


H6

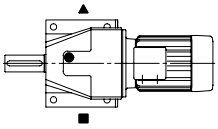


Reductores de engranajes helicoidales ZG

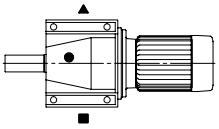
B3



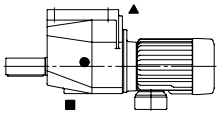
B6



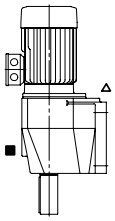
B7



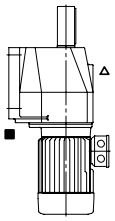
B8



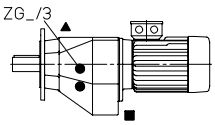
V5



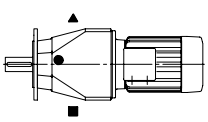
V6



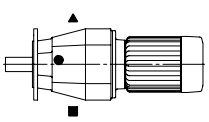
B5



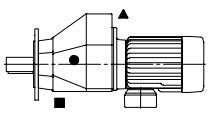
B5/90



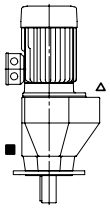
B5/270



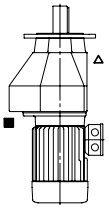
B5/180



V1



V3



Cantidad de lubricante

Reductor	Posición de montaje Cantidad de lubricante [l]											
	B3	**B14 B5**	**B6**	**B14/90 B5/90**	**B7**	**B14/270 B5/270**	**B8**	**B14/180 B5/180**	**V5**	**V18 V1**	**V6**	**V19 V3**
G1.2	0.2	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7
G2.2	0.3	0.3	0.6	0.5	0.6	0.5	0.5	0.5	0.9	0.8	1.0	0.8
G3.2	0.6	0.6	0.8	0.8	0.8	0.8	1.1	1.0	1.8	1.4	1.9	1.4
G3.3	1.4	1.0	1.3	1.2	1.3	1.2	1.1	1.0	2.0	1.7	1.9	1.6
G4.2	1.0	1.2	1.8	2.2	1.8	1.4	2.0	2.2	3.0	2.6	3.6	2.8
G4.3	1.9	1.6	2.2	2.2	2.2	1.8	2.6	2.2	3.5	3.2	3.6	3.3
G5.2	2.0	2.0	3.0	3.0	3.0	3.0	4.5	4.5	5.5	5.5	6.0	6.0
G5.3	3.8	3.8	4.0	4.0	4.0	4.0	4.5	4.5	6.5	6.5	6.5	6.5
G6.2	3.8	3.8	6.0	6.0	6.0	6.0	8.0	8.0	11	11	11.5	11.5
G6.3	7.2	7.2	7.0	7.0	7.0	7.0	11	11	13	13	12.5	12.5
G7.2	7.0	7.0	9.0	9.0	9.0	9.0	13	13	20	20	23	23
G7.3	10	10	14	14	14	14	14	14	26	26	24	24
G8.3	13	13	20	20	19	19	28	28	40	40	38	38

	H1	**H2**	**H3**	**H4**	**H5**	**H6**
F3.2	1.0	1.1	1.0	1.0	1.5	1.4
F3.3	1.5	1.1	1.2	1.2	1.7	1.6
F4.2	2.1	1.9	1.9	1.9	2.0	3.2
F4.3	3.0	1.8	2.0	2.0	3.0	3.0
F5.2	4.4	3.5	2.8	3.0	4.0	6.0
F5.3	6.0	3.5	2.8	3.9	6.0	6.0
F6.2	7.0	3.5	6.0	6.2	8.5	9.5
F6.3	10	3.5	6.0	6.0	12.5	8.5

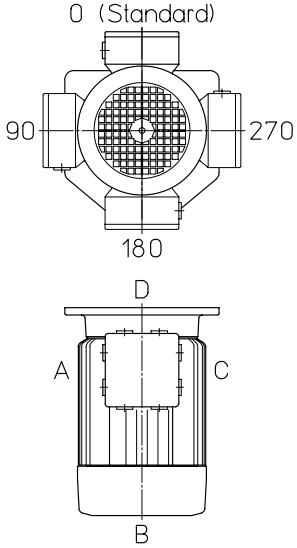
	H1	**H2**	**H3**	**H4**	**H5**	**H6**
S0.2	0.2	0.3	0.4	0.4	0.3	0.3
S1.2	0.35	0.55	0.8	0.75	0.55	0.55
S2.2	0.5	1.1	1.8	1.2	1.2	1.2
S3.2	0.8	1.4	3.0	2.1	1.9	1.9
S3.3	1.7	2.0	2.7	2.0	2.0	2.0
S4.2	1.4	3.2	5.5	3.4	3.2	3.2
S4.3	2.4	4.0	5.5	4.0	3.2	3.2

	H1	**H2**	**H3**	**H4**	**H5**	**H6**
K3.3	0.7	1.5	2.4	2.5	2.0	2.0
K3.4	1.0	1.8	2.6	2.5	2.0	2.0
K4.3	1.7	1.7	3.6	3.0	3.5	3.5
K4.4	2.4	2.0	3.8	2.8	3.5	3.5
K5.3	3.5	3.0	6.0	4.5	5.8	5.8
K5.4	4.5	5.2	7.4	5.5	5.8	5.8
K6.3	5.5	9.0	11.8	9.3	10.5	12.5
K6.4	7.6	9.0	14	9.3	10.5	12.5
K7.3	8.0	12.5	17.0	10.5	11.0	11.0
K7.4	11.0	12.5	19.0	12.0	11.0	11.0

	B3	**B5**	**B6**	**B5/90**	**B7**	**B5/270**	**B8**	**B5/180**	**V5**	**V1**	**V6**	**V3**
ZG0	0.4	0.2	0.4	0.4	0.4	0.4	0.4	0.4	0.7	0.7	0.7	0.7
ZG1	0.4	0.3	0.5	0.5	0.5	0.5	0.6	0.6	1.0	0.8	0.9	0.8
ZG2	0.8	0.6	1.0	0.8	1.0	0.8	1.0	1,0	1.9	1.4	1.5	1.4
ZG2/3	1.4	1.0	1.2	1.2	1.2	1.2	1.0	1.0	2.3	1.7	1.7	1.6
ZG3	1.6	1.2	2.0	2.2	2.0	1.4	2.2	2.2	3.2	2.6	3.4	2.8
ZG3/3	2.5	1.6	2.7	2.2	2.7	1.8	2.2	2.2	3.7	3.2	3.9	3.3
ZG4	3.0	2.0	5.7	3.0	5.7	3.0	4.7	4.5	7.1	5.5	6.2	6.0
ZG4/3	4.9	3.8	5.7	4.0	5.7	4.0	4.7	4.5	8.5	6.5	6.5	6.5
ZG5	5.5	3.8	8.0	6.0	8.0	6.0	5.5	8.0	12	11	7.2	11.5
ZG5/3	8.5	7.2	8.0	7.0	8.0	7.0	5.5	11	14	13	7.5	12.5

Motorreductores G, F, S, K, ZG

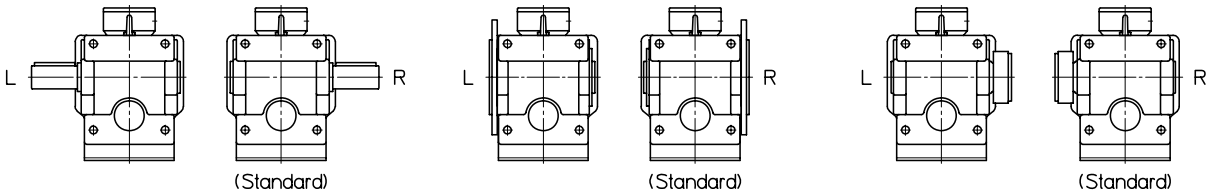
Posición de la caja de terminales



Ejemplo: 270C es para caja de terminales en 270 entrada de cables en C

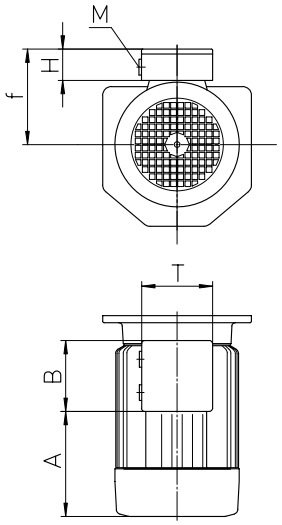
Estándar: Posición de la caja de terminales 0A

Posición de la cara de montaje



Para motorreductores, de tornillo sin fin y de engranajes cónicos, con brida, eje sólido o con disco de apriete la posición de la cara de montaje tiene que ser especificada.
Estándar: Posición de la cara de montaje R

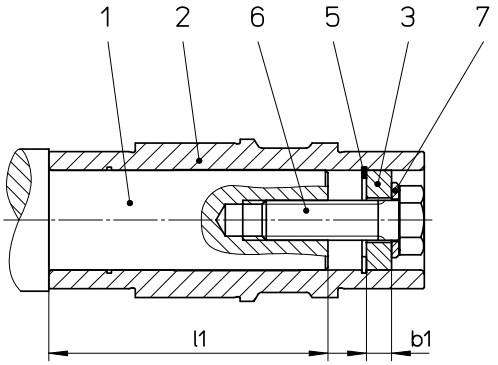
Dimensiones de la caja de terminales



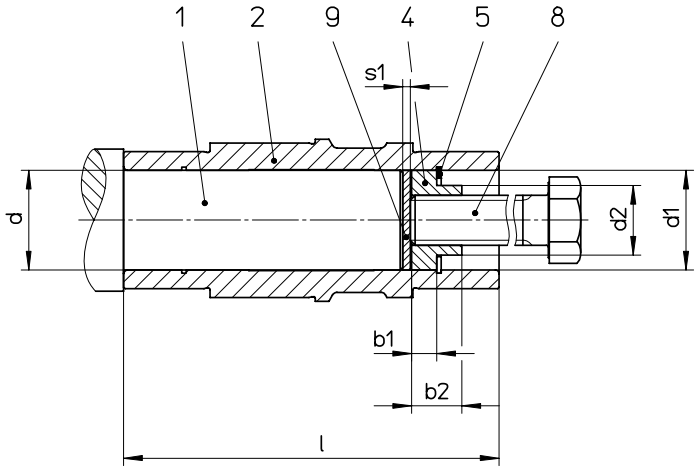
	A	B	T	H	f	M
DL63/71	76	89.5	89.5	51.5	113	1 x M20x1.5
DA80 DA90S	48.5	116	100	55	135	2 x M20x1.5
DA90L DA100L	63	116	100	55	149	2 x M25x1.5
DA100LX DA112M	71.5	116	100	55	156	2 x M25x1.5
DA132	143.5	142	117	62	188	2 x M32x1.5
DA160 DA180M	316.5	140	140	90	250	2 x M40x1.5
DA180L DA200L	204.5	226	230	121	291	2 x M40x1.5

Reductores con eje hueco
Ensamblaje / Desensamblaje

Ensamblaje



Desensamblaje



Reductor	l1	dxl	d1xb1	d1	d2	b1	b2					d1xs1
F3	92	30x123	29,9x9	29,9	20	9	16	30x1.2	M10x45	B10.5	M16	29.9x3
F4	111	40x150	39.9x10	39.9	27.5	10	20	40x1.75	M16x55	B17	M20	39.9x3
F5	138	50x180	49.9x10	49.9	36	10	25	50x2	M16x55	B17	M24	49.9x5
F6	155	60x210	59.9x12	59.9	44	12	30	60x2	M20x65	B21	M30	59.9x5
S0	65	20x90	19.9x6	19.9	-	8	-	20x1	M6x35	B6.4	M10	19.9x2
S1	100	25x132	24.9x7	24.9	15.5	7	12	25x1.2	M10x40	B10.5	M12	24.9x3
S2	119	30x152	29.9x9	29.9	20	9	16	30x1.2	M10x45	B10.5	M16	29.9x3
S3	136	40x175	39.9x10	39.9	27.5	10	20	40x1.75	M16x55	B17	M20	39.9x3
S4	171	50x212	49,9x10	49.9	36	10	25	50x2	M16x55	B17	M24	49.9x5
K3	119	30x152	29.9x9	29.9	20	9	16	30x1.2	M10x45	B10.5	M16	29.9x3
K4	140	40x175	39.9x10	39.9	27.5	10	20	40x1.75	M16x55	B17	M20	39.9x3
K5	169	50x210	49.9x10	49.9	36	10	25	50x2	M16x55	B17	M24	49.9x5
K6	190	60x240	59.9x12	59.9	44	12	30	60x2	M20x65	B21	M30	59.9x5
K7	245	70x300	69.9x12	69.9	52	17	30	70x2.5	M20x65	B21	M30	69.9x6
Parte-Nº	1	2	3	4	4	4	4	5	6	7	8	9

l1 Longitud máxima del eje sólido
1 Eje sólido
2 Eje hueco
3 Elemento de fijación
4 Elemento de montaje y desmontaje (S0-elemento de montaje)
5 Anillo de seguridad DIN 472
6 Tornillo hexagonal DIN 933
7 Arandela DIN 125
8 Tornillo hexagonal DIN 933
9 Arandela

Los elementos de fijación y desmontaje pueden ser usados para Ensamblar y desensamblar.

Las partes 4, 5, 6, y 7 se suministran con la opción M-elementos de fijación y desmontaje.

Selección del accionamiento

Los motorreductores deberían ser seleccionados en la tabla de selección según potencia y velocidad. Existe la siguiente relación entre potencia, velocidad y par:

$$M = 9550 \cdot \frac{P}{n}$$

M [Nm] Par (1Nm = 0.102 kpm)
P [kW] Potencia (1kW = 1.36 PS)
n [1/min] Velocidad

Factor de aplicación f_B

La potencia citada en las tablas de selección es la potencia transmisible con operación normal, p.e., operación constante con pequeñas masas para ser aceleradas. Para aplicaciones diferentes a esta, debe estimarse el factor de aplicación f@tB de la máquina accionada.

Factor de aplicación f_B

Grado de choque	Tiempo operación horas/día	Arranques por hora			
		< 10	10 ... 100	100 ... 200	> 200
I	< 8	0.8	1.0	1.2	1.3
	8 ... 16	1.0	1.2	1.3	1.4
	16 ... 24	1.2	1.3	1.4	1.5
II	< 8	1.1	1.3	1.4	1.5
	8 ... 16	1.3	1.4	1.5	1.7
	16 ... 24	1.5	1.6	1.7	1.8
III	< 8	1.4	1.6	1.7	1.8
	8 ... 16	1.6	1.7	1.8	2.0
	16 ... 24	1.8	1.9	2.0	2.1

$$FJ = \frac{J_{red}}{J_{mot}}$$

FJ Factor de aceleración de masas
J_{red} Todas las inercias externas corregidas a la entrada del motor
J_{mot} Inercia del motor

Grado de choque		Máquina accionada
I FJ≤1	uniforme	Generadores, cintas transportadoras, transportadores de tornillo, elevadores ligeros, máquinas de envase y embalaje, alimentadores para máquina herramienta, ventiladores, centrífugas ligeras, agitadores y mezcladores para sustancias de consistencia uniforme
II FJ≤3	choque moderado	Accionamiento principal de máquinas herramienta, elevadores pesados, elevador para grúas, centrífugas pesadas, agitadores y mezcladores para sustancias de consistencia no uniforme, ventiladores para minas, hornos rotativos, maquinaria para madera (sierras), bombas de pistón de un cilindro, molinos de grava, extrusoras
III FJ≤10	choque severo	Trituradores (piedra, mineral), accionamientos para tamizadoras, molinos de corte, prensas para briquetas, máquinas descortezadoras, palas mecánicas, accionamientos para excavadoras.

Condiciones de selección

Las siguientes condiciones deben aplicarse en la selección de los motorreductores:

$M_A \leq M_{ab}$ y $f_B \leq C_G$

El coeficiente de reductor C_G representa la relación del régimen de carga a la carga nominal: $C_G = \frac{M_{Gzul}}{M_{ab}}$

M_A	[Nm]	Par de la máquina accionada
M_{ab}	[Nm]	Par del motorreductor (ver tabla de selección)
M_{Gzul}	[Nm]	Par de salida permitido del motorreductor
f_B		Factor de aplicación de la máquina accionada
C_G		Coeficiente de reductor (ver tabla de selección)

Cuando $C_G = 1.0 \rightarrow M_{Gzul} = M_{ab}$.

Debido a la asignación de diferentes tallas de reductor al mismo tamaño de motor, resultan diferentes coeficientes de reductor C_G.

El coeficiente de reductor para cada velocidad de salida es citado en la tabla de selección. Sin embargo, este valor sólo tiene influencia en la talla del reductor y no en el tamaño del motor o la potencia Consulte al fabricante en el caso de aplicaciones de accionamiento complicadas.

Selección del accionamiento

Fuerzas axiales y radiales permitidas en el eje de salida

Si en el eje de salida existen fuerzas axiales y radiales, las cargas axiales y radiales en el eje de salida deben ser comparadas, con los valores permitidos para fuerzas radiales F_R o fuerzas axiales F_A, en la tabla de selección. Los valores en la tabla, para las cargas radiales y axiales permitidas están aplicados bajo las siguientes condiciones:

- carga constante en operación continua
- ejes con acabado normal
- carga radial en la mitad del eje de salida en el caso de la peor dirección de carga
- aplicación concéntrica de las fuerzas axiales

La carga radial en el eje del reductor es calculada como

$$F_R = \frac{M_{ab} \cdot 2000}{d_0} \cdot f_z$$

F_R	[N]	Fuerza radial en el eje de salida del reductor
Mab	[Nm]	Par del motorreductor (ver tabla de selección)
d0	[mm]	Diámetro efectivo del elemento accionador
fz		Factor incremental (ver tabla)

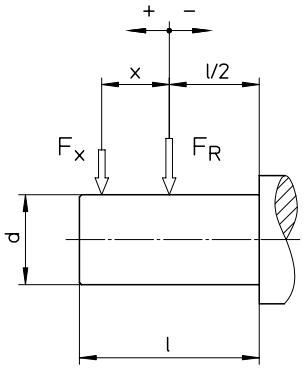
Elemento de transmisión	fz	Observaciones
Engranajes	1.1	< 17 dientes
Ruedas dentadas	1.4	< 13 dientes
	1.2	< 20 dientes
Poleas trapezoidales	1.7	Influencia de la fuerza de pretensión inicial
Poleas planas	2.5	Influencia de la fuerza de pretensión inicial

La fuerza radial determinada no debe exceder de la fuerza radial permitida para el reductor.

Si la fuerza radial no es aplicada en la mitad del eje, use la siguiente fórmula para la conversión de la fuerza radial permitida:

$$F_{RX} = F_R \cdot \frac{1}{1 + \frac{x}{K_1}} \qquad F_{RXmax} = F_{Rmax} \cdot \frac{1}{1 + \frac{x}{K_2}}$$

F_{RX}	[N]	Fuerza radial permitida en cualquier punto de aplicación
F_R	[N]	Fuerza radial permitida en el centro del eje (tabla de selección)
F_{Rmax}	[N]	Valor máximo para fuerza radial permitida (tabla)
X	[mm]	Distancia F_{RX} a F_R (dependiente del signo)
K1, K2	[mm]	Constante (tabla)

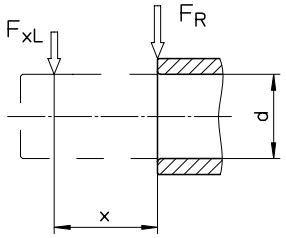


La fuerza radial permitida F_{RXzul} es válida para el valor menor de los dos valores F_{RX} y F_{RXmax}

Reductor	K1 [mm]	K2 [mm]	F_{Rmax} [N]
G1	69	32	2750
G2	85	38	4250
G3	103	47.5	5500
G4	131.5	59	9200
G5	166	74	14600
G6	191	84	27000
G7	220	96	43800
G8	271	114	55500
F3	128	30	6060
F4	160	40	10300
F5	200	50	15300
F6	224	60	21200
S0	119.5	20	3750
S1	138	25	4680
S2	161.5	30	6060
S3	190	40	10300
S4	232.5	50	15300
K3	161.5	30	6060
K4	190	40	10300
K5	231	50	15300
K6	264.5	60	21200
K7	307	70	46000
ZG0	74	37	2350
ZG1	90	43	3750
ZG2	113	57.5	4550
ZG3	146.5	74	7300
ZG4	186	94	11500
ZG5	207.5	100.5	21500

En ciertas direcciones de aplicación de la fuerza, el reductor puede aceptar fuerzas radiales mayores. Si las fuerzas radiales calculadas para una aplicación especial son mayores que los valores en la tabla, consulte al fabricante.

Los valores permitidos para las fuerzas radiales y axiales, indicados en las tablas de selección, son válidos para reductores con eje sólido de salida.
Los valores dados para las fuerzas radiales permitidas son válidos para $F_A = 0$.
Los valores dados para las fuerzas axiales permitidas son válidos para $F_R = 0$.
Si las fuerzas radiales y axiales están activas al mismo tiempo, consulte al fabricante.



Motores

Motores trifásicos de 4-polos

Motor	P [kW]	n1 [1/min]	cos φ	In (400V)	Ia/In	Ma/Mn	Mk/Mn	JE [kgcm²]	Mbr [Nm]	JE+JB [kgcm²]	kg Freno
DL63K4	**0.12**	1410	0.71	0.36	3.8	1.8	2.3	4.0	4	4.3	1.4
DL63G4	**0.18**	1410	0.67	0.59	3.8	2.1	2.4	4.0	4	4.3	1.4
DL71K4	**0.25**	1385	0.72	0.78	3.5	1.8	2.1	4.0	4	4.3	1.4
DL71G4	**0.37**	1380	0.71	1.09	3.8	2.0	2.2	5.0	4	5.3	1.4
DA80K4	**0.55**	1390	0.79	1.50	4.7	2.4	2.7	12.3	8 4	13.0 12.6	2.0 1.5
DA80G4	**0.75**	1410	0.80	2.00	5.0	2.4	2.8	15.9	8 4	16.6 15.2	2.0 1.5
DA90S4	**1.1**	1390	0.82	2.70	4.8	2.3	2.4	15.9	16 8	17.6 16.6	3.6 2.1
DA90L4	**1.5**	1405	0.82	3.5	5.3	2.2	2.5	25	16 8	26.4 25.7	3.6 2.1
DA100L4	**2.2**	1390	0.85	4.8	5.4	2.2	2.6	25	32 16	29 26.4	5.7 3.9
DA100LX4	**3**	1410	0.84	6.6	5.7	2.5	2.7	42	60 32	48 46	8.2 4.8
DA112M4	**4**	1400	0.83	9.0	6.9	2.7	3.2	51	60 32	57 55	8.2 4.8
DA132S4	**5.5**	1440	0.84	11.5	6.9	2.2	2.8	150	100 60	166 156	12 8.2
DA132M4	**7.5**	1440	0.85	15.5	7.7	2.5	3.1	190	100 60	206 196	12 8.2
DA132MX4	**9.2**	1430	0.81	20.0	6.5	2.3	3.0	200	100 60	216 206	12 8.2
DA160M4	**11**	1465	0.87	21.0	6.9	2.0	2.7	520	150 100	550 536	18 12
DA160L4	**15**	1465	0.87	28.0	7.2	2.1	3.1	700	250 150	775 730	28 18
DA180M4	**18.5**	1465	0.88	35.0	7.4	2.2	3.0	800	250 150	875 830	28 18
DA180L4	**22**	1475	0.81	43.0	7.9	2.7	3.0	1800	400 250	2010 1875	43 28
DA200L4	**30**	1475	0.80	60.0	7.4	2.7	3.2	2100	400 250	2310 2175	43 28

Motores trifásicos de 6-polos

DL63G6	**0.12**	925	0.53	0.58	2.7	1.8	2.2	4.5	4	4.8	1.4
DL71K6	**0.18**	925	0.55	0.82	2.9	2.1	2.4	4.5	4	4.8	1.4
DL71G6	**0.25**	915	0.54	1.10	2.9	2.1	2.3	6.0	4	6.3	1.4

P Potencia nominal
n1 Velocidad nominal
cos φ Factor de potencia
In Corriente nominal
Ia/In Corriente de arranque relativa
Ma/Mn Par de arranque relativo
Mk/Mn Par máximo relativo
JE Inercia del motor
JE+JB Inercia del motor con freno
m Peso adicional
Mbr Par de frenado estático después de completada la fase de rodaje

Opciones de motor

Freno COMBISTOP 08

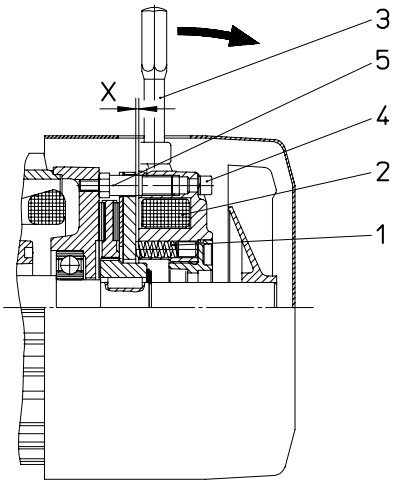
- freno de seguridad por muelle de doble disco
- freno “fail-safe“
- ferodos libres de asbestos
- protección estándar IP 54
- conexión por contactos en caja de terminales
- provisión de ajuste del desgaste del ferodo sin desmontar
- posible reducción de par del 50%
- tensiones estándar: 230VAC, 400VAC, 24VDC

Opciones:

- palanca para desenclavamiento manual MB
- versión aprobada CSA
- versión a prueba de corrosión
- rectificador de acción rápida ”Powerbox“ para su instalación en el armario de mando.
  Dependiendo del tipo de aplicación, este rectificador mejora el tiempo de activación o desactivación del freno, o su vida de servicio hasta que el entrehierro es reajustado.

Modo de operación

El freno es desactivado excitando su bobina con corriente continúa (2) o mediante la palanca manual de desenclavamiento (3) la cual puede incorporarse como opción.
El frenado se da en condición de reposo por medio del muelle de presión (1).
Los tornillos de ajuste (5) son usados para ajustar el entrehierro nominal (X) en caso de desgaste.



Datos técnicos

Combistop 08 Talla	Mbr [Nm]	P20 [W]	t2 [ms]	t11~ [ms]	t11= [ms]	X [mm]	Xn [mm]
02	4	20	40	40	10	0.2	0.4
03	8	25	60	80	15	0.2	0.5
04	16	30	100	140	20	0.2	0.6
05	32	40	120	180	25	0.2	0.6
06	60	52	240	200	25	0.3	1.0
07	100	65	240	400	50	0.3	1.0
08	150	75	300	700	60	0.4	1.2
09	250	75	350	900	60	0.4	1.2
10	400	130	350	1400	60	0.5	1.5

Mbr Par de frenado estático después de completada la fase de rodaje
P20 Valor de excitación a 20°C
t2 Tiempo de liberación, tiempo desde que se conecta la corriente hasta que empieza a decrecer el par
t11~ Retardo de activación con conmutación en AC (Fig. 1,3). Tiempo desde que se desconecta la corriente hasta que se alcanza el par
t11= Retardo de activación con conmutación en DC (Fig. 2). Tiempo desde que se desconecta la corriente hasta que se alcanza el par
X Separación nominal
Xn Separación, con la cual se recomienda el reajuste del entrehierro

Los tiempos de conmutación especificados están aplicados con la separación nominal (X) y el par nominal (Mbr). Están relacionados con los valores medios y dependen del tipo de rectificador y de la temperatura de la bobina.

Conexión eléctrica del freno

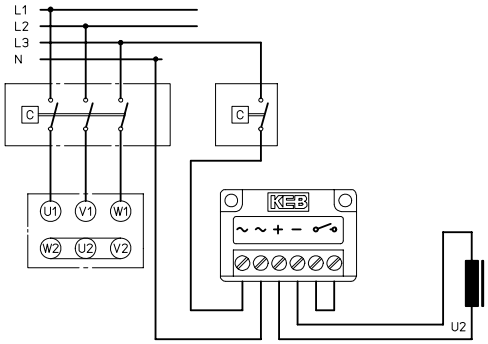


Figura 1: Conmutación lado AC

- El freno es activado independientemente de la tensión del motor, tiempo de retardo de activación t11~
- Adecuado para operar con convertidor de frecuencia

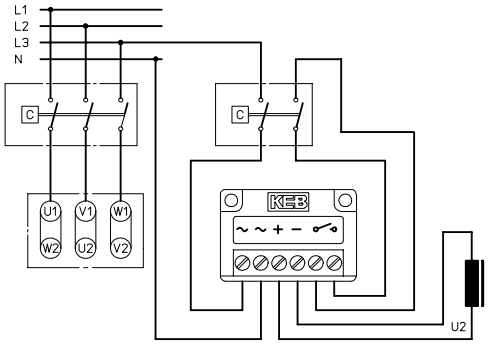


Figura 2: Conmutación lado DC

- - La conmutación del freno en los lados de AC y DC permite tiempos de retardo a la activación menores t11=.

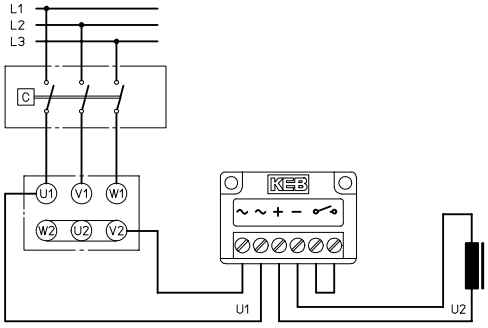


Figura 3: Freno preparado para conexión

- Tensión de alimentación de la caja de terminales del motor.
- El freno es activado junto con la tensión del motor, tiempo de retardo de activación t11~
- En comparación a la Figura 1 la conexión adicional no es necesaria
- No adecuado para uso con convertidores de frecuencia ni con motores de polos conmutados con devanados separados

Opciones de motor

Ventilación forzada
La versión estándar de ventilación forzada, es suministrada con las siguientes características:
-
- Protección estándar IP 66
- Tensión
  DL63 .. DA200: 1 ~ 230 – 277 V, 50/60 Hz
  3 ~ 220 V Δ – 500 V Y 50/60 Hz
- La conexión se realiza en una caja de terminales adicional instalada sobre la capucha del ventilador.

Protección de motor
Pueden suministrase las siguiente protecciones de motor:
- Termistor PTC, sensor TW
- Termo- relé TS

Motores con encoder incremental
Con la versión estándar se suministra un encoder incremental con las siguientes características:
- Pulsos / Revolución 2500 (Canales A y B)
- Canales A, B, 0 e invertidos
- Tensión de alimentación 5 V DC (+/- 5%)
- Consumo de corriente típico 20 mA / máximo 33 mA
- Carga permitida / canal +/- 20 mA
- Frecuencia de pulsos máxima 200 kHz
- Nivel de señal HIGH mínimo 2.5 V
- Nivel de señal LOW máximo 0.5 V
- Protección estándar (encoder) IP 66
- Temperatura ambiente - 20°C ... + 50°C
- Interface RS 422 (TTL compatible)
- El encoder incremental está montado bajo la capucha del ventilador del motor y protegido de las influencias del ambiente
- Conexión con conector de 12-polos, el conector aéreo es suministrado con el envío

Longitudes adicionales para opciones de motor [mm]

Motor	Opciones de Motor B I	B I	F	F I B F B F I	I_F [A] 3 ~ 230/400V 50Hz	I_F [A] 1 ~ 230V 50Hz
DL63 / DL71	52	98	97	166	0.06 / 0.03	0.08
DA80 / DA 90S	71	126	94	190	0.06 / 0.03	0.09
DA90L	65	120	104	196	0.19 / 0.11	0.20
DA100L	65	120	104	196	0.19 / 0.11	0.20
DA100LX / DA112M	74	129	102	204	0.19 / 0.11	0.21
DA132	99	156	98	216	0.20 / 0.11	0.23
DA160 / DA180M	120	176	151	286	0.39 / 0.22	0.84
DA180L / DA200L	139	199	154	294	0.39 / 0.22	0.84

B Freno
I Encoder incremental
B I Freno + Encoder incremental
F Ventilación forzada
F I Ventilación forzada + Encoder incremental
B F Ventilación forzada + Freno
B F I Ventilación forzada + Freno + Encoder incremental
I_F Corriente nominal de la ventilación forzada

Más opciones de motor
Las siguientes opciones de motor están disponibles bajo demanda
- Motores de polos conmutables
  4/2 polos; 8/4 polos; 8/2 polos; 6/2 polos; 12/2 polos; 6/4 polos
- Motores monofásicos
  Potencias de 0.12 a 1.5 kW
  con condensador de servicio Ma / Mn ca. 0.4
  con condensador de servicio y resistencia de rotor incrementada Ma / Mn ca. 0.8
  con condensador de arranque y servicio Ma / Mn ca. 1.8
- Motores de reluctancia
  Potencia de 0.25 a 1.5 kW, 4-polos
  La velocidad de salida de estos motores se mantiene independientemente de la carga 1500 1/min.
- Motores con “backstop” (con el pedido indique la dirección de bloqueo).
- Motores con segundo final de eje o con rueda manual
- Motores con freno de bajo Nivel de ruido o con freno doble
- Motores con mayor protección estándar (IP 56, IP 65, IP68)
- Motores con conector enchufable integrado
- Motores protección EExe II T3
- Motores a prueba de llama EExd

Convertidores de frecuencia

Convertidores de frecuencia KEB COMBIVERT

- Moderna tecnología por micro procesador y circuito de potencia con IGBT, que asegura fiabilidad y eficiencia
- Menú de control que permite programación y uso fácil
- Menú de aplicación para funciones múltiple y juegos de parámetros
- Es posible seleccionar entre distintos tipos de panel; con visualizador y teclado así como comunicación serie.
- Los siguientes protocolos de comunicación son soportados: INTERBUS e InterBus Loop, Profibus DP/FMS, CAN, LON, DIN66019
- Varias opciones: filtros, resistencias de frenado, bobinas de choque, cables de conexión

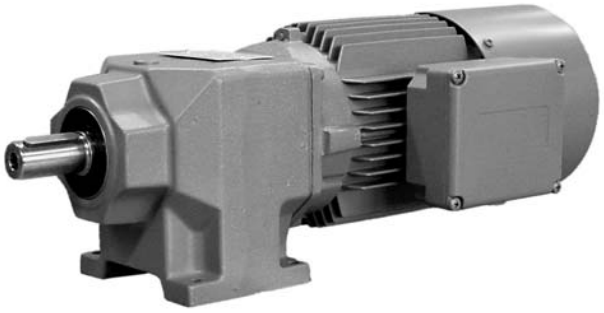
Tipo	**Aplicación**
F4-S	convertidor de frecuencia fiable para aplicaciones estándar
F4-C	facilidades de programación aumentadas
F4-F	convertidor de frecuencia de campo orientado para aplicaciones de lazo cerrado

Potencia del motor [kW]	**Tipo COMBIVERT F4**	**Tensión de alimentación**	**Corriente nominal [A]**	**Pico de corriente (30 sec.) [A]**	**B x H x T [mm]**
0.37	05. F4. S0C-1220	1 x 230 V 50/60 Hz	2.3	4.1	90 x 230 x 115
0.75	07. F4. S0C-1220				90 x 230 x 115
	07. F4. S0C-1220	1 x 230 V 50/60 Hz	4.0	7.2	90 x 230 x 115
	07. F4. F1D-3240				90 x 250 x 160
1.5	09. F4. S1D-1220	1 x 230 V 50/60 Hz	7.0	12.6	90 x 250 x 160
	09. F4. C1D-3420	3 x 400 V 50/60 Hz	4.1	7.4	90 x 250 x 160
2.2	10. F4. C1D-3460 10. F4. F1D-3440	3 x 400 V 50/60 Hz	5.8	10.4	90 x 250 x 160
4.0	12. F4. C1D-3420 12. F4. F1D-3440	3 x 400 V 50/60 Hz	9.5	17.1	90 x 250 x 160 130 x 290 x 200
5.5	13. F4. C1D-3410 13. F4. F1E-3480	3 x 400 V 50/60 Hz	12	21.6	90 x 250 x 160
7.5	14. F4. C1E-3440 14. F4. F1E-3440	3 x 400 V 50/60 Hz	16.5	29.7	130 x 290 x 200
11.0	15. F4. C1E-3420 15. F4. F1G-3440	3 x 400 V 50/60 Hz	24	36	130 x 290 x 200 170 x 340 x 255
15.0	16. F4. C1G-3440 16. F4. F1G-3440	3 x 400 V 50/60 Hz	33	49.5	170 x 340 x 255
18.5	17.F4. C1G-3420 17.F4. F1H-3440	3 x 400 V 50/60 Hz	42	63	170 x 340 x 255 298 x 340 x 255
22.0	18. F4. C0H-3440 18. F4. F0H-3440	3 x 400 V 50/60 Hz	50	75	298 x 340 x 255
30.0	19. F4. C0H-3420 19. F4. F1R-3440	3 x 400 V 50/60 Hz	60	90	298 x 340 x 255 342 x 520 x 360

Motorreductores de engranajes helicoidales G

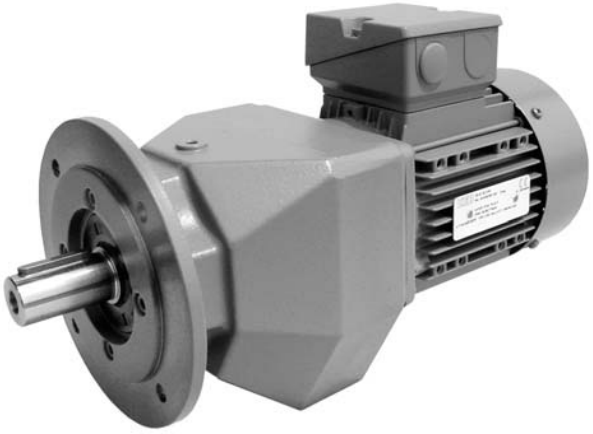
KEB

G2.2A DA80G4 B



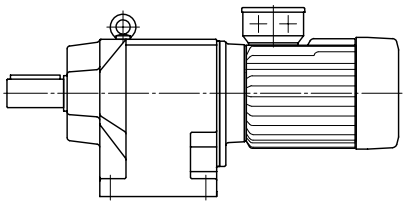
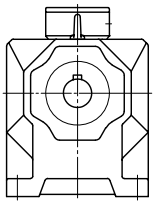
G5.2B DA90L4

G2.2C DL71G4

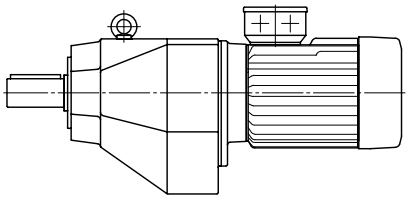
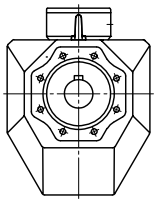


G1.2-M IEC 63B14G

Motorreductores de engranajes helicoidales G

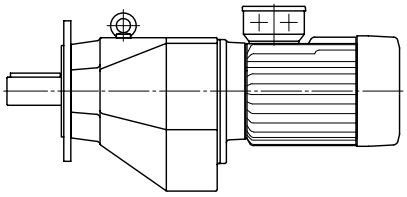
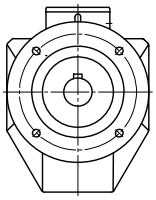



Versión con pie
Ejemplo: G7.3**A** DA160M4

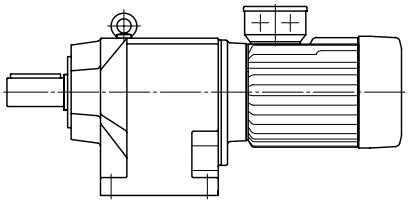
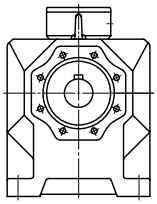
Versión con brida B14
Ejemplo: G4.2**B** DA100L4

(Para los reductores G5..G8, las ejecuciones B y D son idénticas.)

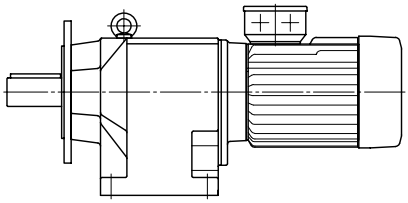
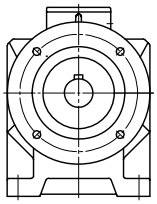
Versión con brida B5
Ejemplo: G3.2**C** DA80G4

(Para los reductores G5..G8, las ejecuciones C y E son idénticas.)

B3-B14 Ejecución con brida
Ejemplo: G4.3**D** DL63G4

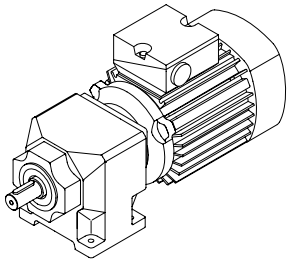
(Para los reductores G5..G8, las ejecuciones B y D son idénticas.)

B3-B5 Ejecución con brida
Ejemplo: G2.2**E** DA90S4

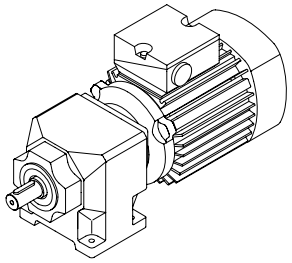
(Para los reductores G5..G8, las ejecuciones C y E son idénticas.)

Motorreductores de engranajes helicoidales G



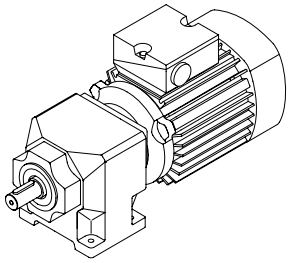
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.12									
	0.11	10530	0.9	12950	55500	247400	**G8.3/G3.2A DL63K4**	55/56	246
	0.12	9490	1.0	11673	55500	239100	**G8.3/G3.2B DL63K4**		246
	0.13	8770	1.0	10792	55500	233100	**G8.3/G3.2C DL63K4**		263
	0.14	7910	1.2	9727.7	55500	225300			
	0.17	6830	1.3	8406.3	55500	215000			
	0.19	6160	1.5	7577.4	55500	208000			
	0.21	5540	1.7	6815.9	55500	201000			
	0.23	4990	1.8	6143.8	55500	194500			
	0.28	4070	2.3	5009.7	55500	182400			
	0.31	3670	2.5	4515.7	55500	176500			
	0.35	3280	2.8	4040.9	55500	170500			
	0.20	5680	0.8	6994.4	43800	118500	**G7.3/G3.2A DL63K4**	54/56	155
	0.22	5110	0.9	6291.5	43800	114400	**G7.3/G3.2B DL63K4**		155
	0.25	4610	1.0	5671.1	43800	110400	**G7.3/G3.2C DL63K4**		163
	0.30	3760	1.3	4624.3	43800	103200			
	0.34	3390	1.4	4168.3	43800	99700			
	0.38	3030	1.6	3730.0	43800	96100			
	0.42	2730	1.7	3362.2	43800	92900			
	0.45	2560	1.8	3145.8	43800	90900			
	0.50	2300	2.1	2835.5	43800	87900			
	0.60	1920	2.5	2359.3	43800	82900			
	0.66	1730	2.7	2126.7	43800	80200			
	0.71	1620	2.9	1992.3	43800	78600			
	0.41	2810	0.8	3460.8	27000	61000	**G6.3/G1.2A DL63K4**	53/56	101
	0.47	2420	0.9	2982.5	27000	59300	**G6.3/G1.2B DL63K4**		101
	0.52	2200	1.0	2710.7	27000	58100	**G6.3/G1.2C DL63K4**		107
	0.59	1950	1.2	2396.9	27000	56600			
	0.65	1770	1.3	2178.5	27000	55500			
	0.72	1600	1.4	1966.5	27000	54200			
	0.79	1450	1.6	1787.3	27000	53000			
	0.91	1260	1.8	1555.6	27000	51300			
	1.00	1150	2.0	1413.8	27000	50100			
	1.1	1040	2.2	1284.1	27000	48900			
	1.2	950	2.4	1167.1	27000	47800			
	1.4	795	2.9	977.67	27000	45700			
	0.75	1520	0.8	1867.7	14600	14200	**G5.3/G1.2A DL63K4**	52/56	65
	0.83	1380	0.9	1697.5	14600	14700	**G5.3/G1.2B DL63K4**		65
	0.92	1250	1.0	1532.3	14600	15100	**G5.3/G1.2C DL63K4**		69
	1.0	1130	1.1	1392.7	14600	15400			
	1.2	985	1.2	1212.1	14600	15900			
	1.3	895	1.3	1101.7	14600	16200			
	1.4	815	1.5	1000.6	14600	16400			
	1.6	740	1.6	909.40	14600	16700			
	1.9	620	1.9	761.82	14600	17100			
	2.0	565	2.1	692.40	14600	17200			
	2.4	485	2.5	596.71	14600	17500			
	2.6	440	2.7	542.33	14600	17600			
	2.0	585	2.0	722.000	14600	17200	**G5.3A DL63K4**	52	60
	2.2	525	2.1	644.21	14600	17400	**G5.3B DL63K4**		60
	2.4	475	2.5	582.67	14600	17500	**G5.3C DL63K4**		63
	2.7	425	2.7	519.89	14600	17700			
	2.9	390	3.0	481.33	14600	17800			

Motorreductores de engranajes helicoidales G



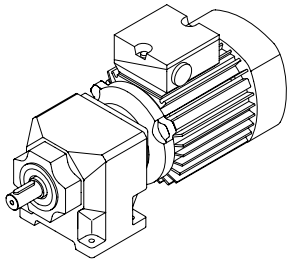
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.12									
	1.5	765	0.8	943.58	9200	8990	**G4.2/G1.2A DL63K4**	51/56	36
	1.6	695	0.9	857.60	9200	9270	**G4.2/G1.2B DL63K4**		32
	1.9	605	1.0	746.42	9200	9620	**G4.2/G1.2C DL63K4**		34
	2.1	550	1.1	678.40	9200	9840			
	2.3	500	1.2	616.15	9200	10000			
	2.5	455	1.3	560.00	9200	10200			
	3.0	380	1.6	469.12	9200	10500			
	3.3	345	1.8	426.37	9200	10600			
	3.8	300	2.0	367.45	9200	10800			
	4.2	270	2.2	333.96	9200	10900			
	2.1	545	1.0	668.850	9200	9910	**G4.3A DL63K4**	51	34
	2.4	485	1.0	596.79	9200	10100	**G4.3B DL63K4**		30
	2.4	480	1.2	588.47	9200	10200	**G4.3C DL63K4**		32
	2.7	425	1.2	525.06	9200	10300			
	3.0	385	1.5	473.200	9200	10500			
	3.3	345	1.5	422.22	9200	10700			
	3.6	320	1.8	394.33	9200	10800			
	4.0	285	1.8	351.85	9200	10900			
	4.6	245	2.3	303.33	9200	11100			
	5.2	220	2.3	270.65	9200	11100			
	3.7	315	0.9	385.34	5500	6530	**G3.2/G1.2A DL63K4**	50/56	24
	4.0	285	0.9	350.22	5500	6660	**G3.2/G1.2B DL63K4**		22
	4.7	245	1.1	301.82	5500	6850	**G3.2/G1.2C DL63K4**		23
	5.1	225	1.2	274.32	5500	6950			
	4.2	275	0.9	222.22	5500	6730	**G3.3A DL63G6**	50	22
	4.6	250	1.0	200.31	5500	6830	**G3.3B DL63G6**		20
	5.3	215	1.2	173.74	5500	7010	**G3.3C DL63G6**		21
	5.9	194	1.3	156.60	5500	7090			
	6.3	181	1.4	222.22	5500	7170	**G3.3A DL63K4**	50	22
	7.0	163	1.6	200.31	5500	7240	**G3.3B DL63K4**		20
	8.1	141	1.8	173.74	5500	7350	**G3.3C DL63K4**		21
	9.0	127	2.0	156.60	5500	7400			
	10.0	115	2.2	141.41	5500	7470			
	11	104	2.5	127.47	5500	7510			
	13	85	3.0	105.05	5500	7610			
	14	84	1.4	67.94	4250	5330	**G2.2A DL63G6**	49	14
	15	76	1.4	61.22	4250	5360	**G2.2B DL63G6**		12
	17	68	1.7	54.83	4250	5420	**G2.2C DL63G6**		13
	19	61	2.0	49.41	4250	5450			
	21	55	2.1	67.94	4250	5490	**G2.2A DL63K4**	49	14
	23	50	2.1	61.22	4250	5510	**G2.2B DL63K4**		12
	26	45	2.6	54.83	4250	5550	**G2.2C DL63K4**		13
	29	40	3.0	49.41	4250	5570			
	15	75	0.8	60.31	2750	2790	**G1.2A DL63G6**	48	11
	16	72	0.9	58.38	2750	2810	**G1.2B DL63G6**		10
	17	66	1.0	53.06	2750	2850	**G1.2C DL63G6**		11
	20	58	1.1	46.94	2740	2900			

Motorreductores de engranajes helicoidales G



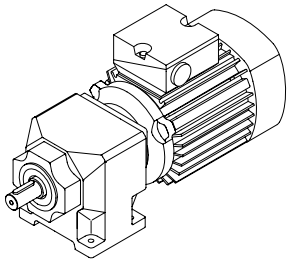
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.12									
	21	54	1.1	66.35	2700	2930	**G1.2A DL63K4**	48	11
	23	49	1.3	60.31	2640	2960	**G1.2B DL63K4**		10
	24	47	1.3	58.38	2630	2970	**G1.2C DL63K4**		11
	27	43	1.5	53.06	2570	2990			
	30	38	1.6	46.94	2500	3030			
	33	35	1.8	42.67	2440	3050			
	36	32	1.9	39.12	2390	3070			
	40	29	2.2	35.56	2330	3090			
	47	24	2.5	30.09	2230	3120			
	52	22	2.8	27.35	2170	3130			
	67	17	3.6	21.06	2030	3170			
	74	16	4.0	19.15	1970	3170			
	82	14	4.4	17.28	1920	3190			
	90	13	4.9	15.71	1860	3190			
	103	11	5.6	13.67	1790	3200			
	113	10	6.2	12.42	1740	3210			
	125	9.2	6.8	11.28	1690	3220			
	137	8.3	7.6	10.26	1640	3220			
	164	7.0	8.9	8.59	1560	3230			
	181	6.3	9.9	7.81	1510	3230			
	195	5.9	10.7	7.22	1480	3240			
	210	5.5	11.3	6.73	1440	3240			
	231	5.0	12.7	6.12	1400	3240			
	247	4.6	13.3	5.72	1370	3150			
	275	4.2	14.9	5.13	1330	2980			
	302	3.8	16.6	4.66	1290	2840			
	323	3.5	17.5	4.36	1260	2750			
	356	3.2	19.6	3.96	1220	2630			
	382	3.0	20.7	3.69	1200	2550			
	420	2.7	23.1	3.36	1160	2440			
0.18									
	0.14	11860	0.8	9727.7	55500	229100	**G8.3/G3.2A DL63G4**	55/56	246
	0.17	10250	0.9	8406.3	55500	218200	**G8.3/G3.2B DL63G4**		246
	0.19	9240	1.0	7577.4	55500	210900	**G8.3/G3.2C DL63G4**		263
	0.21	8310	1.1	6815.9	55500	203700			
	0.23	7490	1.2	6143.8	55500	196900			
	0.28	6110	1.5	5009.7	55500	184300			
	0.31	5510	1.7	4515.7	55500	178300			
	0.35	4930	1.9	4040.9	55500	172000			
	0.39	4440	2.1	3642.4	55500	166400			
	0.41	4150	2.2	3408.0	55500	163000			
	0.46	3750	2.5	3071.9	55500	157700			
	0.55	3120	2.9	2556.0	55500	148800			
	0.30	5640	0.8	4624.3	43800	105500	**G7.3/G3.2A DL63G4**	54/56	155
	0.34	5080	0.9	4168.3	43800	101800	**G7.3/G3.2B DL63G4**		155
	0.38	4550	1.0	3730.0	43800	98000	**G7.3/G3.2C DL63G4**		163
	0.42	4100	1.2	3362.2	43800	94600			
	0.45	3840	1.2	3145.8	43800	92500			
	0.50	3460	1.4	2835.5	43800	89300			
	0.60	2880	1.6	2359.3	43800	84100			
	0.66	2590	1.8	2126.7	43800	81300			
	0.71	2430	1.9	1992.3	43800	79500			
	0.79	2190	2.2	1795.8	43800	76900			

Motorreductores de engranajes helicoidales G



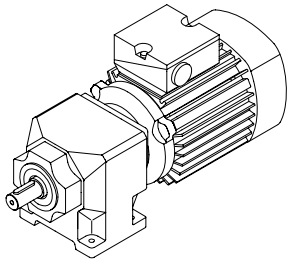
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.18									
	0.59	2920	0.8	2396.9	27000	53300	**G6.3/G1.2A DL63G4**	53/56	101
	0.65	2660	0.9	2178.5	27000	52400	**G6.3/G1.2B DL63G4**		101
	0.72	2400	1.0	1966.5	27000	51400	**G6.3/G1.2C DL63G4**		107
	0.79	2180	1.1	1787.3	27000	50500			
	0.91	1900	1.2	1555.6	27000	49100			
	1.00	1720	1.3	1413.8	27000	48100			
	1.1	1570	1.5	1284.1	27000	47100			
	1.2	1420	1.6	1167.1	27000	46100			
	1.4	1190	1.9	977.67	27000	44300			
	1.6	1080	2.1	888.58	27000	43300			
	1.8	935	2.5	765.78	27000	41800			
	2.0	850	2.7	696.00	27000	40800			
	1.2	1480	0.8	1212.1	14600	14400	**G5.3/G1.2A DL63G4**	52/56	65
	1.3	1340	0.9	1101.7	14600	14800	**G5.3/G1.2B DL63G4**		65
	1.4	1220	1.0	1000.6	14600	15200	**G5.3/G1.2C DL63G4**		69
	1.6	1110	1.1	909.40	14600	15500			
	1.9	930	1.3	761.82	14600	16100			
	2.0	845	1.4	692.40	14600	16400			
	2.4	725	1.6	596.71	14600	16700			
	2.6	660	1.8	542.33	14600	16900			
	2.0	880	1.4	722.000	14600	16300	**G5.3A DL63G4**	52	60
	2.2	785	1.4	644.21	14600	16500	**G5.3B DL63G4**		60
	2.4	710	1.7	582.67	14600	16800	**G5.3C DL63G4**		63
	2.7	635	1.8	519.89	14600	17000			
	2.9	585	2.0	481.33	14600	17200			
	3.3	525	2.2	429.47	14600	17400			
	3.8	455	2.6	373.67	14600	17600			
	4.2	405	2.8	333.41	14600	17700			
	2.3	750	0.8	616.15	9200	9050	**G4.2/G1.2A DL63G4**	51/56	36
	2.5	685	0.9	560.00	9200	9320	**G4.2/G1.2B DL63G4**		32
	3.0	570	1.1	469.12	9200	9760	**G4.2/G1.2C DL63G4**		34
	3.3	520	1.2	426.37	9200	9960			
	3.8	450	1.4	367.45	9200	10200			
	4.2	405	1.5	333.96	9200	10400			
	2.4	715	0.8	588.47	9200	9240	**G4.3A DL63G4**	51	34
	2.7	640	0.8	525.06	9200	9490	**G4.3B DL63G4**		30
	3.0	575	1.0	473.200	9200	9780	**G4.3C DL63G4**		32
	3.3	515	1.0	422.22	9200	9980			
	3.6	480	1.2	394.33	9200	10100			
	4.0	430	1.2	351.85	9200	10300			
	4.6	370	1.5	303.33	9200	10600			
	5.2	330	1.5	270.65	9200	10700			
	6.6	260	2.2	212.33	9200	11000			
	7.4	230	2.2	189.46	9200	11100			
	8.1	210	2.7	174.200	9200	11200			
	9.1	189	2.7	155.43	9200	11300			
	5.1	335	0.8	274.32	5500	6430	**G3.2/G1.2A DL63G4**	50/56	24
							G3.2/G1.2B DL63G4		22
							G3.2/G1.2C DL63G4		23
	5.3	325	0.8	173.74	5500	6510	**G3.3A DL71K6**	50	22
	5.9	290	0.9	156.60	5500	6630	**G3.3B DL71K6**		20
							G3.3C DL71K6		21

Motorreductores de engranajes helicoidales G



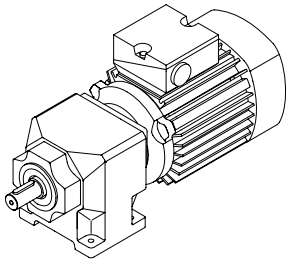
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.18									
	6.3	270	0.9	222.22	5500	6750	**G3.3A DL63G4**	50	22
	7.0	245	1.0	200.31	5500	6850	**G3.3B DL63G4**		20
	8.1	210	1.2	173.74	5500	7020	**G3.3C DL63G4**		21
	9.0	191	1.3	156.60	5500	7100			
	10.0	172	1.5	141.41	5500	7200			
	11	155	1.6	127.47	5500	7270			
	13	128	2.0	105.05	5500	7410			
	15	115	2.2	94.69	5500	7460			
	17	99	2.6	80.81	5500	7540			
	19	89	2.9	72.84	5500	7580			
	20	84	2.8	69.09	5500	7610	**G3.2A DL63G4**	50	19
	23	76	2.8	62.28	5500	7640	**G3.2B DL63G4**		17
							G3.2C DL63G4		18
	14	126	0.9	67.94	4250	5090	**G2.2A DL71K6**	49	14
	15	114	0.9	61.22	4250	5150	**G2.2B DL71K6**		12
	17	102	1.1	54.83	4250	5230	**G2.2C DL71K6**		13
	19	92	1.3	49.41	4250	5270			
	21	83	1.4	67.94	4250	5330	**G2.2A DL63G4**	49	14
	23	75	1.4	61.22	4250	5370	**G2.2B DL63G4**		12
	26	67	1.8	54.83	4250	5420	**G2.2C DL63G4**		13
	29	60	2.0	49.41	4250	5450			
	31	55	2.1	45.29	4250	5490			
	35	50	2.5	40.81	4250	5510			
	40	43	2.7	35.16	4250	5560			
	21	81	0.8	66.35	2440	2760	**G1.2A DL63G4**	48	11
	23	74	0.9	60.31	2400	2800	**G1.2B DL63G4**		10
	24	71	0.9	58.38	2400	2820	**G1.2C DL63G4**		11
	27	65	1.0	53.06	2360	2850			
	30	57	1.1	46.94	2320	2910			
	33	52	1.2	42.67	2270	2940			
	36	48	1.3	39.12	2240	2970			
	40	43	1.5	35.56	2190	2990			
	47	37	1.7	30.09	2120	3040			
	52	33	1.9	27.35	2070	3060			
	67	26	2.4	21.06	1950	3110			
	74	23	2.7	19.15	1900	3120			
	82	21	2.9	17.28	1850	3140			
	90	19	3.3	15.71	1800	3150			
	103	17	3.7	13.67	1740	3170			
	113	15	4.2	12.42	1690	3180			
	125	14	4.5	11.28	1650	3190			
	137	13	5.0	10.26	1600	3190			
	164	10	5.9	8.59	1520	3210			
	181	9.5	6.6	7.81	1480	3210			
	195	8.8	7.2	7.22	1450	3220			
	210	8.2	7.6	6.73	1420	3220			
	231	7.5	8.4	6.12	1380	3200			
	247	7.0	8.9	5.72	1350	3100			
	275	6.3	9.9	5.13	1310	2930			
	302	5.7	11.1	4.66	1270	2800			
	323	5.3	11.7	4.36	1240	2720			
	356	4.8	13.0	3.96	1210	2600			
	382	4.5	13.8	3.69	1180	2520			
	420	4.1	15.4	3.36	1150	2410			

Motorreductores de engranajes helicoidales G



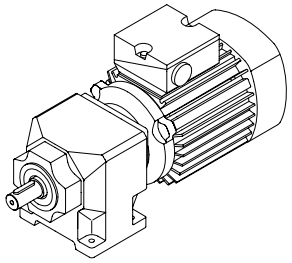
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.25									
	0.20	11750	0.8	6815.9	55500	208000	**G8.3/G3.2A DL71K4**	55/56	246
	0.23	10590	0.9	6143.8	55500	200900	**G8.3/G3.2B DL71K4**		246
	0.28	8640	1.1	5009.7	55500	187700	**G8.3/G3.2C DL71K4**		263
	0.31	7780	1.2	4515.7	55500	181400			
	0.34	6970	1.3	4040.9	55500	174900			
	0.38	6280	1.5	3642.4	55500	169100			
	0.41	5870	1.6	3408.0	55500	165500			
	0.45	5300	1.7	3071.9	55500	160000			
	0.54	4410	2.1	2556.0	55500	150800			
	0.60	3970	2.3	2303.9	55500	145900			
	0.64	3720	2.5	2158.4	55500	142900			
	0.71	3350	2.7	1945.5	55500	138300			
	0.41	5800	0.8	3362.2	43800	97100	**G7.3/G3.2A DL71K4**	54/56	155
	0.44	5420	0.9	3145.8	43800	94900	**G7.3/G3.2B DL71K4**		155
	0.49	4890	1.0	2835.5	43800	91500	**G7.3/G3.2C DL71K4**		163
	0.59	4070	1.2	2359.3	43800	86000			
	0.65	3670	1.3	2126.7	43800	83000			
	0.70	3430	1.4	1992.3	43800	81200			
	0.77	3100	1.5	1795.8	43800	78400			
	1.3	1780	2.7	1035.3	43800	65400			
	1.5	1610	2.9	933.22	43800	63300			
	0.89	2680	0.9	1555.6	27000	46700	**G6.3/G1.2A DL71K4**	53/56	101
	0.98	2440	0.9	1413.8	27000	45900	**G6.3/G1.2B DL71K4**		101
	1.1	2210	1.0	1284.1	27000	45200	**G6.3/G1.2C DL71K4**		107
	1.2	2010	1.1	1167.1	27000	44400			
	1.4	1690	1.4	977.67	27000	42900			
	1.6	1530	1.5	888.58	27000	42000			
	1.8	1320	1.7	765.78	27000	40700			
	2.0	1200	1.9	696.00	27000	39800			
	1.5	1570	0.8	909.40	14600	14100	**G5.3/G1.2A DL71K4**	52/56	65
	1.8	1310	0.9	761.82	14600	14900	**G5.3/G1.2B DL71K4**		65
	2.0	1190	1.0	692.40	14600	15300	**G5.3/G1.2C DL71K4**		69
	2.3	1030	1.2	596.71	14600	15800			
	2.6	935	1.3	542.33	14600	16100			
	1.9	1240	1.0	722.000	14600	15200	**G5.3A DL71K4**	52	60
	2.1	1110	1.0	644.21	14600	15500	**G5.3B DL71K4**		60
	2.4	1000	1.2	582.67	14600	15900	**G5.3C DL71K4**		63
	2.7	895	1.3	519.89	14600	16200			
	2.9	830	1.4	481.33	14600	16400			
	3.2	740	1.6	429.47	14600	16700			
	3.7	645	1.8	373.67	14600	17000			
	4.2	575	2.0	333.41	14600	17200			
	4.6	525	2.3	304.000	14600	17400			
	5.1	470	2.5	271.25	14600	17500			
	3.2	735	0.8	426.37	9200	9120	**G4.2/G1.2A DL71K4**	51/56	36
	3.8	635	1.0	367.45	9200	9520	**G4.2/G1.2B DL71K4**		32
	4.1	575	1.1	333.96	9200	9740	**G4.2/G1.2C DL71K4**		34

Motorreductores de engranajes helicoidales G



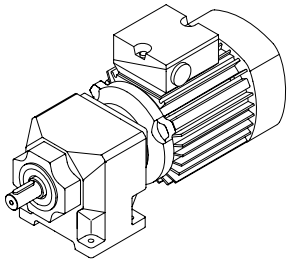
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.25									
	3.5	680	0.8	394.33	9200	9380	**G4.3A DL71K4**	51	34
	3.9	605	0.8	351.85	9200	9620	**G4.3B DL71K4**		30
	4.6	525	1.1	303.33	9200	9990	**G4.3C DL71K4**		32
	5.1	465	1.1	270.65	9200	10200			
	6.5	365	1.6	212.33	9200	10600			
	7.3	325	1.6	189.46	9200	10700			
	8.0	300	1.9	174.200	9200	10800			
	8.9	270	1.9	155.43	9200	10900			
	10	240	2.4	137.800	9200	11100			
	11	210	2.4	122.95	9200	11200			
	12	196	2.9	113.750	9200	11200			
	14	175	2.9	101.49	9200	11300			
	8.0	300	0.9	173.74	5500	6620	**G3.3A DL71K4**	50	22
	8.8	270	0.9	156.60	5500	6730	**G3.3B DL71K4**		20
	9.8	245	1.1	141.41	5500	6870	**G3.3C DL71K4**		21
	11	220	1.2	127.47	5500	6970			
	13	181	1.4	105.05	5500	7160			
	15	163	1.6	94.69	5500	7230			
	17	139	1.8	80.81	5500	7360			
	19	126	2.0	72.84	5500	7410			
	20	119	2.0	69.09	5500	7450	**G3.2A DL71K4**	50	19
	22	107	2.0	62.28	5500	7500	**G3.2B DL71K4**		17
	24	99	2.6	57.58	5500	7540	**G3.2C DL71K4**		18
	27	89	2.8	51.90	5500	7580			
	17	143	0.8	54.83	4250	4990	**G2.2A DL71G6**	49	14
	19	129	0.9	49.41	4250	5060	**G2.2B DL71G6**		13
							G2.2C DL71G6		14
	20	117	1.0	67.94	4250	5140	**G2.2A DL71K4**	49	14
	23	106	1.0	61.22	4250	5190	**G2.2B DL71K4**		12
	25	95	1.2	54.83	4250	5270	**G2.2C DL71K4**		13
	28	85	1.4	49.41	4250	5310			
	31	78	1.5	45.29	4250	5360			
	34	70	1.7	40.81	4250	5400			
	39	61	1.9	35.16	4250	5460			
	44	55	2.2	31.69	4200	5490			
	48	49	2.4	28.61	4090	5520			
	54	44	2.7	25.78	3980	5550			

Motorreductores de engranajes helicoidales G



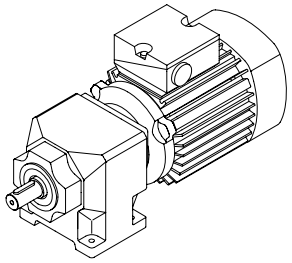
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.25									
	30	81	0.8	46.94	2110	2760	**G1.2A DL71K4**	48	11
	32	74	0.9	42.67	2080	2800	**G1.2B DL71K4**		10
	35	67	0.9	39.12	2070	2840	**G1.2C DL71K4**		11
	39	61	1.0	35.56	2040	2880			
	46	52	1.2	30.09	1990	2940			
	51	47	1.3	27.35	1950	2970			
	66	36	1.7	21.06	1860	3040			
	72	33	1.9	19.15	1820	3060			
	80	30	2.1	17.28	1780	3080			
	88	27	2.3	15.71	1740	3100			
	101	24	2.6	13.67	1680	3120			
	111	21	2.9	12.42	1640	3140			
	123	19	3.2	11.28	1600	3150			
	135	18	3.6	10.26	1560	3160			
	161	15	4.2	8.59	1490	3180			
	177	13	4.7	7.81	1450	3190			
	192	12	5.1	7.22	1420	3190			
	206	12	5.3	6.73	1400	3200			
	226	11	6.0	6.12	1360	3170			
	242	9.9	6.3	5.72	1330	3060			
	270	8.8	7.0	5.13	1290	2910			
	297	8.0	7.8	4.66	1250	2780			
	318	7.5	8.2	4.36	1230	2700			
	350	6.8	9.2	3.96	1200	2580			
	375	6.4	9.7	3.69	1170	2510			
	413	5.8	10.9	3.36	1140	2400			
0.37									
	0.31	11560	0.8	4515.7	55500	185200	**G8.3/G3.2A DL71G4**	55/56	247
	0.34	10350	0.9	4040.9	55500	178300	**G8.3/G3.2B DL71G4**		247
	0.38	9330	1.0	3642.4	55500	172200	**G8.3/G3.2C DL71G4**		264
	0.40	8730	1.1	3408.0	55500	168400			
	0.45	7870	1.2	3071.9	55500	162600			
	0.54	6540	1.4	2556.0	55500	153000			
	0.60	5900	1.6	2303.9	55500	147900			
	0.64	5530	1.7	2158.4	55500	144800			
	0.71	4980	1.8	1945.5	55500	140000			
	0.58	6040	0.8	2359.3	43800	88400	**G7.3/G3.2A DL71G4**	54/56	156
	0.65	5450	0.9	2126.7	43800	85200	**G7.3/G3.2B DL71G4**		156
	0.69	5100	0.9	1992.3	43800	83300	**G7.3/G3.2C DL71G4**		164
	0.77	4600	1.0	1795.8	43800	80300			
	1.3	2650	1.8	1035.3	43800	66600			
	1.5	2390	2.0	933.22	43800	64300			
	1.8	1990	2.4	776.48	43800	60500			
	2.0	1790	2.6	699.91	43800	58500			
	2.1	1680	2.8	655.70	43800	57300			
	1.2	2990	0.8	1167.1	27000	41000	**G6.3/G1.2A DL71G4**	53/56	102
	1.4	2500	0.9	977.67	27000	40100	**G6.3/G1.2B DL71G4**		102
	1.6	2280	1.0	888.58	27000	39500	**G6.3/G1.2C DL71G4**		108
	1.8	1960	1.2	765.78	27000	38500			
	2.0	1780	1.3	696.00	27000	37800			
	2.3	1530	0.8	596.71	14600	14200	**G5.3/G1.2A DL71G4**	52/56	66
	2.5	1390	0.9	542.33	14600	14600	**G5.3/G1.2B DL71G4**		66
							G5.3/G1.2C DL71G4		70

Motorreductores de engranajes helicoidales G



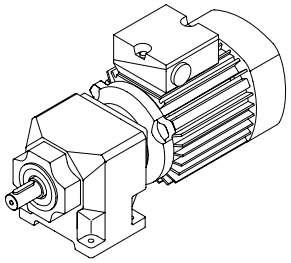
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.37									
	2.4	1490	0.8	582.67	14600	14400	**G5.3A DL71G4**	52	61
	2.7	1330	0.9	519.89	14600	14800	**G5.3B DL71G4**		61
	2.9	1230	1.0	481.33	14600	15200	**G5.3C DL71G4**		64
	3.2	1100	1.1	429.47	14600	15500			
	3.7	955	1.2	373.67	14600	16100			
	4.1	855	1.4	333.41	14600	16300			
	4.5	780	1.5	304.000	14600	16600			
	5.1	695	1.7	271.25	14600	16800			
	6.4	555	2.1	217.14	14600	17300			
	7.1	495	2.3	193.75	14600	17400			
	7.8	450	2.6	176.43	14600	17600			
	8.8	405	2.9	157.42	14600	17700			
	6.5	545	1.0	212.33	9200	9910	**G4.3A DL71G4**	51	35
	7.3	485	1.0	189.46	9200	10100	**G4.3B DL71G4**		31
	7.9	445	1.3	174.200	9200	10300	**G4.3C DL71G4**		33
	8.9	400	1.3	155.43	9200	10400			
	10	355	1.6	137.800	9200	10600			
	11	315	1.6	122.95	9200	10800			
	12	290	2.0	113.750	9200	10900			
	14	260	2.0	101.49	9200	11000			
	16	220	2.6	86.61	9200	11100			
	18	198	2.6	77.28	9200	11200			
	11	325	0.8	127.47	5500	6470	**G3.3A DL71G4**	50	23
	13	270	1.0	105.05	5500	6760	**G3.3B DL71G4**		21
	15	240	1.1	94.69	5500	6860	**G3.3C DL71G4**		22
	17	205	1.2	80.81	5500	7040			
	19	187	1.4	72.84	5500	7120			
	20	177	1.4	69.09	5500	7180	**G3.2A DL71G4**	50	20
	22	159	1.3	62.28	5500	7250	**G3.2B DL71G4**		18
	24	147	1.7	57.58	5500	7320	**G3.2C DL71G4**		19
	27	133	1.9	51.90	5500	7380			
	31	115	2.2	44.85	5500	7470			
	34	104	2.5	40.43	5500	7510			
	38	93	2.7	36.36	5390	7570			
	25	140	0.8	54.83	4250	5010	**G2.2A DL71G4**	49	14
	28	127	1.0	49.41	4250	5070	**G2.2B DL71G4**		13
	30	116	1.0	45.29	4250	5150	**G2.2C DL71G4**		14
	34	105	1.2	40.81	4200	5200			
	39	90	1.3	35.16	4090	5290			
	44	81	1.5	31.69	3990	5330			
	48	73	1.6	28.61	3900	5390			
	54	66	1.8	25.78	3800	5420			
	68	52	2.2	20.43	3600	5510			
	75	47	2.6	18.41	3500	5530			
	83	43	2.8	16.60	3410	5560			

Motorreductores de engranajes helicoidales G



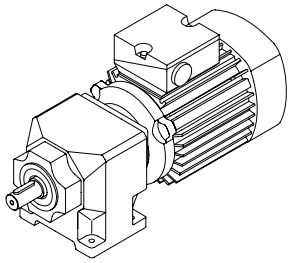
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.37									
	46	77	0.8	30.09	1760	2780	**G1.2A DL71G4**	48	11
	50	70	0.9	27.35	1740	2820	**G1.2B DL71G4**		11
	66	54	1.1	21.06	1700	2930	**G1.2C DL71G4**		11
	72	49	1.3	19.15	1670	2960			
	80	44	1.4	17.28	1650	2990			
	88	40	1.6	15.71	1610	3010			
	101	35	1.8	13.67	1580	3050			
	111	32	2.0	12.42	1540	3070			
	122	29	2.1	11.28	1520	3090			
	135	26	2.4	10.26	1480	3100			
	161	22	2.8	8.59	1430	3130			
	177	20	3.2	7.81	1390	3150			
	191	18	3.4	7.22	1370	3150			
	205	17	3.6	6.73	1340	3160			
	226	16	4.0	6.12	1310	3060			
	241	15	4.2	5.72	1290	2970			
	269	13	4.7	5.13	1250	2830			
	296	12	5.3	4.66	1220	2710			
	317	11	5.6	4.36	1200	2630			
	348	10	6.2	3.96	1170	2520			
	374	9.5	6.6	3.69	1140	2450			
	411	8.6	7.3	3.36	1110	2350			
0.55									
	0.45	11610	0.8	3071.9	55500	165900	**G8.3/G3.2A DA80K4**	55/56	250
	0.54	9660	1.0	2556.0	55500	155700	**G8.3/G3.2B DA80K4**		250
	0.60	8710	1.1	2303.9	55500	150300	**G8.3/G3.2C DA80K4**		266
	0.64	8160	1.1	2158.4	55500	147000			
	0.71	7350	1.2	1945.5	55500	142000			
	1.3	4020	2.3	1062.6	55500	116400			
	1.5	3620	2.5	957.79	55500	112600			
	1.7	3010	3.0	796.93	55500	106100			
	1.3	3910	1.2	1035.3	43800	68000	**G7.3/G3.2A DA80K4**	54/56	159
	1.5	3530	1.3	933.22	43800	65600	**G7.3/G3.2B DA80K4**		159
	1.8	2930	1.6	776.48	43800	61500	**G7.3/G3.2C DA80K4**		167
	2.0	2640	1.8	699.91	43800	59400			
	2.1	2480	1.9	655.70	43800	58100			
	2.4	2230	2.1	591.04	43800	56100			
	1.8	2890	0.8	765.78	27000	35200	**G6.3/G1.2A DA80K4**	53/56	105
	2.0	2630	0.9	696.00	27000	34800	**G6.3/G1.2B DA80K4**		105
							G6.3/G1.2C DA80K4		110
	2.0	2580	0.9	682.73	27000	34900	**G6.3A DA80K4**	53	99
	2.3	2300	0.9	609.38	27000	34200	**G6.3B DA80K4**		99
	2.4	2150	1.0	568.94	27000	34000	**G6.3C DA80K4**		104
	2.7	1920	1.2	507.82	27000	33300			
	3.1	1670	1.3	443.18	27000	32700			
	3.5	1490	1.5	395.56	27000	31900			
	3.9	1360	1.7	359.33	27000	31400			
	4.3	1210	1.8	320.73	27000	30600			
	5.3	1000	2.3	264.110	27000	29500			
	5.9	890	2.5	235.73	27000	28700			
	6.5	805	2.8	213.03	27000	28100			

Motorreductores de engranajes helicoidales G



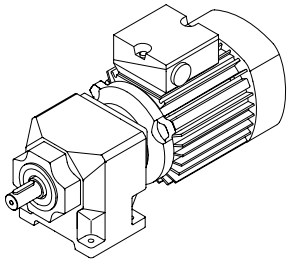
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.55									
	3.7	1410	0.8	373.67	14600	14700	**G5.3A DA80K4**	52	64
	4.2	1260	0.9	333.41	14600	15000	**G5.3B DA80K4**		64
	4.6	1150	1.0	304.000	14600	15500	**G5.3C DA80K4**		67
	5.1	1020	1.1	271.25	14600	15800			
	6.4	820	1.5	217.14	14600	16500			
	7.2	730	1.6	193.75	14600	16700			
	7.9	665	1.8	176.43	14600	16900			
	8.8	595	1.9	157.42	14600	17100			
	9.4	555	2.1	147.250	14600	17300			
	11	495	2.3	131.38	14600	17400			
	12	425	2.8	112.03	14600	17700			
	8.0	660	0.9	174.200	9200	9470	**G4.3A DA80K4**	51	38
	8.9	585	0.9	155.43	9200	9700	**G4.3B DA80K4**		34
	10	520	1.1	137.800	9200	10000	**G4.3C DA80K4**		36
	11	465	1.1	122.95	9200	10200			
	12	430	1.3	113.750	9200	10300			
	14	385	1.3	101.49	9200	10500			
	16	325	1.7	86.61	9200	10700			
	18	290	1.7	77.28	9200	10900			
	20	255	2.2	67.84	9200	11000			
	23	230	2.2	60.53	9200	11100			
	27	195	2.9	51.73	9200	11200			
	30	174	2.9	46.15	8920	11300			
	20	265	1.6	69.600	9200	11000	**G4.2A DA80K4**	51	34
	22	235	1.6	62.10	9200	11100	**G4.2B DA80K4**		30
	25	205	2.4	54.600	9200	11200	**G4.2C DA80K4**		32
	29	184	2.5	48.72	9040	11300			
	31	168	3.0	44.400	8840	11400			
	17	305	0.8	80.81	5500	6590	**G3.3A DA80K4**	50	26
	19	275	0.9	72.84	5500	6710	**G3.3B DA80K4**		24
							G3.3C DA80K4		25
	20	260	0.9	69.09	5500	6790	**G3.2A DA80K4**	50	23
	22	235	0.9	62.28	5500	6890	**G3.2B DA80K4**		21
	24	220	1.2	57.58	5500	6990	**G3.2C DA80K4**		22
	27	196	1.3	51.90	5430	7080			
	31	169	1.5	44.85	5300	7220			
	34	153	1.7	40.43	5180	7280			
	38	137	1.9	36.36	5080	7370			
	42	124	2.1	32.78	4960	7420			
	52	101	2.5	26.73	4740	7530			
	58	91	2.8	24.09	4610	7570			
	34	154	0.8	40.81	3780	4920	**G2.2A DA80K4**	49	18
	40	133	0.9	35.16	3720	5050	**G2.2B DA80K4**		16
	44	120	1.0	31.69	3650	5110	**G2.2C DA80K4**		17
	49	108	1.1	28.61	3610	5190			
	54	97	1.3	25.78	3530	5240			
	68	77	1.5	20.43	3380	5360			
	75	70	1.8	18.41	3300	5400			
	84	63	1.9	16.60	3230	5450			
	93	57	2.2	14.96	3150	5480			
	100	52	2.2	13.86	3100	5500			
	111	47	2.6	12.49	3020	5530			
	132	40	2.9	10.54	2900	5580			

Motorreductores de engranajes helicoidales G



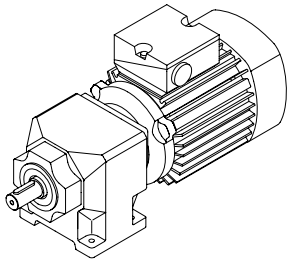
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.55									
	66	80	0.8	21.06	1450	2770	**G1.2A DA80K4**	48	14
	73	72	0.9	19.15	1440	2800	**G1.2B DA80K4**		14
	80	65	0.9	17.28	1440	2860	**G1.2C DA80K4**		14
	88	59	1.1	15.71	1430	2890			
	102	52	1.2	13.67	1420	2940			
	112	47	1.3	12.42	1400	2970			
	123	43	1.5	11.28	1380	3000			
	136	39	1.6	10.26	1360	3020			
	162	32	1.9	8.59	1320	3070			
	178	30	2.1	7.81	1300	3080			
	193	27	2.3	7.22	1280	3100			
	207	25	2.4	6.73	1260	3010			
	227	23	2.7	6.12	1240	2890			
	243	22	2.9	5.72	1220	2810			
	271	19	3.2	5.13	1190	2690			
	298	18	3.6	4.66	1160	2580			
	319	16	3.8	4.36	1150	2520			
	351	15	4.2	3.96	1120	2420			
	376	14	4.4	3.69	1100	2360			
	414	13	5.0	3.36	1070	2270			
0.75									
	0.61	11700	0.8	2303.9	55500	152500	**G8.3/G3.2A DA80G4**	55/56	252
	0.65	10960	0.8	2158.4	55500	149100	**G8.3/G3.2B DA80G4**		252
	0.72	9880	0.9	1945.5	55500	143800	**G8.3/G3.2C DA80G4**		269
	1.3	5400	1.7	1062.6	55500	117200			
	1.5	4870	1.9	957.79	55500	113300			
	1.8	4050	2.3	796.93	55500	106700			
	2.0	3650	2.5	718.34	55500	103100			
	2.1	3420	2.7	672.96	55500	101000			
	2.3	3080	3.0	606.60	55500	97700			
	1.4	5260	0.9	1035.3	43800	69300	**G7.3/G3.2A DA80G4**	54/56	161
	1.5	4740	1.0	933.22	43800	66800	**G7.3/G3.2B DA80G4**		161
	1.8	3940	1.2	776.48	43800	62500	**G7.3/G3.2C DA80G4**		169
	2.0	3560	1.3	699.91	43800	60300			
	2.2	3330	1.4	655.70	43800	58900			
	2.4	3000	1.6	591.04	43800	56800			
	2.5	2890	0.8	568.94	27000	31300	**G6.3A DA80G4**	53	101
	2.8	2580	0.9	507.82	27000	30800	**G6.3B DA80G4**		101
	3.2	2250	1.0	443.18	27000	30500	**G6.3C DA80G4**		106
	3.6	2010	1.1	395.56	27000	29900			
	3.9	1830	1.2	359.33	27000	29700			
	4.4	1630	1.4	320.73	27000	29000			
	5.3	1340	1.7	264.110	27000	28100			
	6.0	1200	1.9	235.73	27000	27500			
	6.6	1080	2.1	213.03	27000	27000			
	7.4	965	2.3	190.15	27000	26300			
	7.8	915	2.5	179.67	27000	26000			
	8.8	815	2.7	160.36	27000	25300			

Motorreductores de engranajes helicoidales G



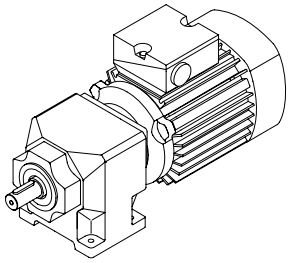
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.75									
	4.6	1540	0.8	304.000	14600	14200	**G5.3A DA80G4**	52	66
	5.2	1380	0.8	271.25	14600	14700	**G5.3B DA80G4**		66
	6.5	1100	1.1	217.14	14600	15600	**G5.3C DA80G4**		69
	7.3	985	1.2	193.75	14600	15900			
	8.0	895	1.3	176.43	14600	16200			
	9.0	800	1.4	157.42	14600	16500			
	9.6	750	1.6	147.250	14600	16700			
	11	665	1.7	131.38	14600	16900			
	13	570	2.1	112.03	14600	17200			
	14	510	2.3	99.96	14600	17400			
	16	450	2.6	88.67	14600	17600			
	18	400	2.9	79.11	14600	17700			
	10	700	0.8	137.800	9200	9300	**G4.3A DA80G4**	51	40
	11	625	0.8	122.95	9200	9550	**G4.3B DA80G4**		36
	12	580	1.0	113.750	9200	9780	**G4.3C DA80G4**		38
	14	515	1.0	101.49	9200	9980			
	16	440	1.3	86.61	9200	10300			
	18	395	1.3	77.28	9200	10500			
	21	345	1.6	67.84	9200	10700			
	23	305	1.6	60.53	9090	10800			
	27	265	2.2	51.73	8800	11000			
	31	235	2.2	46.15	8550	11100			
	38	189	3.0	37.23	8130	11300			
	42	169	3.0	33.22	7880	11300			
	20	355	1.2	69.600	9200	10600	**G4.2A DA80G4**	51	36
	23	315	1.2	62.10	9140	10800	**G4.2B DA80G4**		32
	26	275	1.8	54.600	8910	10900	**G4.2C DA80G4**		34
	29	245	1.9	48.72	8660	11000			
	32	225	2.2	44.400	8490	11100			
	36	200	2.6	39.62	8240	11200			
	43	167	3.0	32.940	7880	11400			
	24	290	0.9	57.58	5010	6650	**G3.2A DA80G4**	50	25
	27	265	1.0	51.90	4940	6760	**G3.2B DA80G4**		23
	31	230	1.1	44.85	4890	6950	**G3.2C DA80G4**		24
	35	205	1.2	40.43	4800	7040			
	39	185	1.4	36.36	4740	7150			
	43	167	1.5	32.78	4640	7220			
	53	136	1.9	26.73	4480	7370			
	59	122	2.1	24.09	4380	7430			
	65	110	2.3	21.56	4290	7490			
	73	99	2.6	19.43	4180	7540			
	78	92	2.8	18.18	4120	7570			
	49	145	0.8	28.61	3280	4980	**G2.2A DA80G4**	49	20
	55	131	0.9	25.78	3230	5050	**G2.2B DA80G4**		18
	69	104	1.1	20.43	3150	5210	**G2.2C DA80G4**		19
	77	94	1.3	18.41	3080	5260			
	85	84	1.4	16.60	3040	5320			
	94	76	1.6	14.96	2970	5360			
	102	70	1.7	13.86	2930	5400			
	113	63	1.9	12.49	2860	5440			
	134	54	2.2	10.54	2770	5500			
	148	48	2.5	9.500	2700	5520			
	169	42	2.8	8.34	2620	5560			

Motorreductores de engranajes helicoidales G



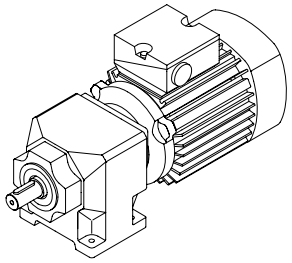
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.75									
	90	80	0.8	15.71	1220	2760	**G1.2A DA80G4**	48	16
	103	69	0.9	13.67	1240	2830	**G1.2B DA80G4**		16
	113	63	1.0	12.42	1230	2860	**G1.2C DA80G4**		16
	125	57	1.1	11.28	1240	2910			
	137	52	1.2	10.26	1220	2940			
	164	44	1.4	8.59	1210	3000			
	181	40	1.6	7.81	1190	2940			
	195	37	1.7	7.22	1180	2860			
	210	34	1.8	6.73	1170	2800			
	231	31	2.0	6.12	1150	2700			
	247	29	2.1	5.72	1140	2640			
	275	26	2.4	5.13	1120	2540			
	302	24	2.7	4.66	1100	2450			
	323	22	2.8	4.36	1090	2400			
	356	20	3.1	3.96	1060	2310			
	382	19	3.3	3.69	1050	2260			
	420	17	3.7	3.36	1020	2180			
1.1									
	0.91	11520	0.8	1524.1	55500	136400	**G8.3/G3.2A DA90S4**	55/56	253
	1.0	10040	0.9	1329.1	55500	130000	**G8.3/G3.2B DA90S4**		253
	1.2	9050	1.0	1198.0	55500	125300	**G8.3/G3.2C DA90S4**		270
	1.3	8030	1.1	1062.6	55500	120200			
	1.5	7240	1.3	957.79	55500	116000			
	1.7	6020	1.5	796.93	55500	109000			
	1.9	5430	1.7	718.34	55500	105300			
	2.1	5090	1.8	672.96	55500	103000			
	2.3	4580	2.0	606.60	55500	99500			
	2.6	3980	2.3	527.20	55500	95000			
	2.9	3590	2.6	475.21	55500	91900			
	3.4	3130	2.9	414.40	55500	87900			
	1.8	5870	0.8	776.48	43800	65100	**G7.3/G3.2A DA90S4**	54/56	162
	2.0	5290	0.9	699.91	43800	62600	**G7.3/G3.2B DA90S4**		162
	2.1	4960	1.0	655.70	43800	61100	**G7.3/G3.2C DA90S4**		170
	2.4	4470	1.1	591.04	43800	58800			
	2.7	3880	1.2	513.67	43800	55900			
	3.0	3500	1.4	463.02	43800	53900			
	3.4	3050	1.6	403.77	43800	51400			
	3.8	2750	1.7	363.96	43800	49500			
	3.9	2720	0.8	359.33	27000	26800	**G6.3A DA90S4**	53	102
	4.3	2420	0.9	320.73	27000	26400	**G6.3B DA90S4**		102
	5.3	2000	1.1	264.110	27000	26000	**G6.3C DA90S4**		108
	5.9	1780	1.2	235.73	27000	25600			
	6.5	1610	1.4	213.03	27000	25300			
	7.3	1440	1.5	190.15	27000	24800			
	7.7	1360	1.7	179.67	27000	24600			
	8.7	1210	1.8	160.36	27000	24100			
	10	1020	2.2	134.750	27000	23400			
	12	910	2.4	120.27	27000	22800			
	12	860	2.6	113.79	27000	22600			
	14	770	2.9	101.56	27000	22000			

Motorreductores de engranajes helicoidales G



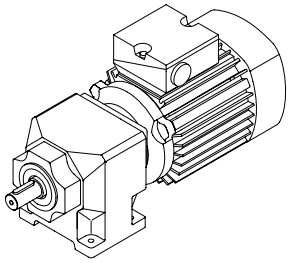
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
1.1									
	7.9	1330	0.9	176.43	14600	14900	**G5.3A DA90S4**	52	67
	8.8	1190	1.0	157.42	14600	15300	**G5.3B DA90S4**		67
	9.4	1110	1.1	147.250	14600	15600	**G5.3C DA90S4**		71
	11	995	1.2	131.38	14600	15900			
	12	845	1.4	112.03	14600	16400			
	14	755	1.5	99.96	14600	16600			
	16	670	1.8	88.67	14600	16900			
	17	615	1.9	81.43	14600	17100			
	18	600	1.9	79.11	14600	17100			
	19	545	2.2	72.200	14600	17300			
	22	485	2.4	64.42	14600	17500			
	23	455	2.6	60.45	14600	17600			
	26	405	2.9	53.74	14300	17700			
	16	655	0.9	86.61	8730	9480	**G4.3A DA90S4**	51	41
	18	585	0.9	77.28	8600	9710	**G4.3B DA90S4**		37
	20	515	1.1	67.84	8520	10000	**G4.3C DA90S4**		39
	23	455	1.1	60.53	8350	10200			
	20	525	0.8	69.600	8550	9970	**G4.2A DA90S4**	51	37
	22	470	0.8	62.10	8380	10200	**G4.2B DA90S4**		33
	25	415	1.2	54.600	8260	10400	**G4.2C DA90S4**		35
	29	370	1.3	48.72	8070	10600			
	31	335	1.5	44.400	7970	10700			
	35	300	1.7	39.62	7770	10800			
	42	250	2.0	32.940	7500	11000			
	47	220	2.4	29.39	7290	11100			
	50	210	2.4	28.080	7230	11200			
	55	189	2.8	25.05	7020	11300			
	61	172	2.9	22.725	6870	11300			
	34	305	0.8	40.43	4150	6560	**G3.2A DA90S4**	50	27
	38	275	0.9	36.36	4170	6730	**G3.2B DA90S4**		25
	42	250	1.0	32.78	4120	6840	**G3.2C DA90S4**		26
	52	200	1.3	26.73	4070	7070			
	58	182	1.4	24.09	4000	7140			
	64	163	1.6	21.56	3950	7250			
	72	147	1.7	19.43	3880	7310			
	76	137	1.9	18.18	3850	7370			
	85	124	2.1	16.39	3760	7420			
	102	103	2.5	13.64	3640	7520			
	113	93	2.8	12.29	3550	7560			
	121	87	2.9	11.52	3510	7600			
	84	125	0.9	16.60	2720	5090	**G2.2A DA90S4**	49	21
	93	113	1.1	14.96	2680	5150	**G2.2B DA90S4**		20
	100	105	1.1	13.86	2670	5210	**G2.2C DA90S4**		21
	111	94	1.3	12.49	2620	5260			
	132	80	1.5	10.54	2570	5350			
	146	72	1.7	9.500	2510	5390			
	167	63	1.9	8.34	2460	5440			
	185	57	2.1	7.52	2410	5470			
	205	51	2.3	6.79	2360	5390			
	227	46	2.6	6.12	2300	5140			
	244	43	2.7	5.69	2270	5000			

Motorreductores de engranajes helicoidales G



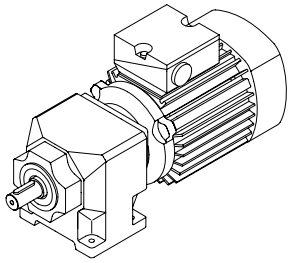
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
1.5									
	1.3	10830	0.8	1062.6	55500	122500	**G8.3/G3.2A DA90L4**	55/56	256
	1.5	9770	0.9	957.79	55500	118100	**G8.3/G3.2B DA90L4**		256
	1.8	8130	1.1	796.93	55500	110700	**G8.3/G3.2C DA90L4**		272
	2.0	7320	1.3	718.34	55500	106800			
	2.1	6860	1.3	672.96	55500	104400			
	2.3	6180	1.5	606.60	55500	100700			
	2.7	5380	1.7	527.20	55500	96100			
	3.0	4850	1.9	475.21	55500	92800			
	3.4	4230	2.2	414.40	55500	88600			
	3.8	3810	2.4	373.54	55500	85600			
	2.4	6030	0.8	591.04	43800	60600	**G7.3/G3.2A DA90L4**	54/56	164
	2.7	5240	0.9	513.67	43800	57400	**G7.3/G3.2B DA90L4**		164
	3.0	4720	1.0	463.02	43800	55200	**G7.3/G3.2C DA90L4**		173
	3.5	4120	1.1	403.77	43800	52500			
	3.9	3710	1.3	363.96	43800	50500			
	5.3	2690	0.8	264.110	27000	23600	**G6.3A DA90L4**	53	105
	6.0	2400	0.9	235.73	27000	23300	**G6.3B DA90L4**		105
	6.6	2170	1.0	213.03	27000	23300	**G6.3C DA90L4**		110
	7.4	1940	1.1	190.15	27000	22900			
	7.8	1830	1.2	179.67	27000	22900			
	8.8	1640	1.4	160.36	27000	22500			
	10	1370	1.6	134.750	27000	22100			
	12	1230	1.8	120.27	27000	21600			
	12	1160	1.9	113.79	27000	21500			
	14	1040	2.1	101.56	27000	21000			
	16	910	2.5	89.14	27000	20500			
	18	810	2.7	79.57	27000	20000			
	9.5	1500	0.8	147.250	14600	14400	**G5.3A DA90L4**	52	69
	11	1340	0.9	131.38	14600	14800	**G5.3B DA90L4**		69
	13	1140	1.0	112.03	14600	15500	**G5.3C DA90L4**		73
	14	1020	1.1	99.96	14600	15800			
	16	905	1.3	88.67	14600	16200			
	17	830	1.4	81.43	14600	16400			
	18	805	1.4	79.11	14600	16500			
	19	735	1.6	72.200	14600	16700			
	22	655	1.8	64.42	14200	16900			
	23	615	1.9	60.45	14000	17100			
	26	550	2.2	53.74	13700	17300			
	29	490	2.4	47.95	13300	17500			
	35	405	2.9	39.900	12800	17700			
	20	710	1.3	69.600	14500	16800	**G5.2A DA90L4**	52	64
	23	635	1.3	62.10	14100	17000	**G5.2B DA90L4**		64
	25	580	1.7	57.000	13900	17200	**G5.2C DA90L4**		67
	28	520	1.7	50.86	13500	17400			
	33	435	2.4	42.660	13000	17700			
	37	390	2.8	38.06	12600	17800			
	39	370	2.8	36.180	12400	17900			
	21	690	0.8	67.84	7550	9340	**G4.3A DA90L4**	51	44
	23	615	0.8	60.53	7470	9580	**G4.3B DA90L4**		40
							G4.3C DA90L4		42

Motorreductores de engranajes helicoidales G



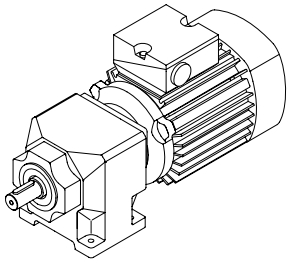
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
1.5									
	26	555	0.9	54.600	7470	9860	**G4.2A DA90L4**	51	40
	29	495	0.9	48.72	7360	10100	**G4.2B DA90L4**		35
	32	455	1.1	44.400	7320	10300	**G4.2C DA90L4**		37
	35	405	1.3	39.62	7180	10400			
	43	335	1.5	32.940	7010	10700			
	48	300	1.7	29.39	6850	10800			
	50	285	1.8	28.080	6820	10900			
	56	255	2.0	25.05	6650	11000			
	62	230	2.2	22.725	6540	11100			
	69	205	2.3	20.28	6360	11200			
	82	174	2.9	17.100	6130	11300			
	43	335	0.8	32.78	3520	6430	**G3.2A DA90L4**	50	29
	53	275	0.9	26.73	3580	6740	**G3.2B DA90L4**		27
	58	245	1.0	24.09	3550	6850	**G3.2C DA90L4**		28
	65	220	1.2	21.56	3560	6980			
	72	198	1.3	19.43	3510	7070			
	77	185	1.4	18.18	3510	7140			
	86	167	1.5	16.39	3460	7210			
	103	139	1.8	13.64	3380	7360			
	114	125	2.0	12.29	3320	7410			
	122	117	2.2	11.52	3290	7460			
	135	106	2.4	10.38	3220	7500			
	156	92	2.8	9.02	3140	7240			
	94	153	0.8	14.96	2340	4930	**G2.2A DA90L4**	49	23
	101	141	0.8	13.86	2360	5000	**G2.2B DA90L4**		22
	113	127	1.0	12.49	2340	5070	**G2.2C DA90L4**		23
	133	107	1.1	10.54	2330	5190			
	148	97	1.3	9.500	2290	5240			
	168	85	1.4	8.34	2270	5320			
	187	77	1.6	7.52	2230	5200			
	207	69	1.7	6.79	2200	5030			
	229	62	2.0	6.12	2160	4820			
	247	58	2.0	5.69	2140	4710			
	278	52	2.3	5.06	2090	4510			
	308	46	2.6	4.56	2040	4330			
	374	38	3.1	3.75	1960	4050			
	415	34	3.5	3.38	1910	3890			
2.2									
	1.7	12050	0.8	796.93	55500	114800	**G8.3/G3.2A DA100L4**	55/56	257
	1.9	10860	0.8	718.34	55500	110500	**G8.3/G3.2B DA100L4**		257
	2.1	10170	0.9	672.96	55500	107900	**G8.3/G3.2C DA100L4**		274
	2.3	9170	1.0	606.60	55500	103900			
	2.6	7970	1.2	527.20	55500	98800			
	2.9	7180	1.3	475.21	55500	95300			
	3.4	6260	1.5	414.40	55500	90800			
	3.7	5650	1.6	373.54	55500	87700			
	3.4	6100	0.8	403.77	43800	55100	**G7.3/G3.2A DA100L4**	54/56	166
	3.8	5500	0.9	363.96	43800	52900	**G7.3/G3.2B DA100L4**		166
							G7.3/G3.2C DA100L4		174

Motorreductores de engranajes helicoidales G



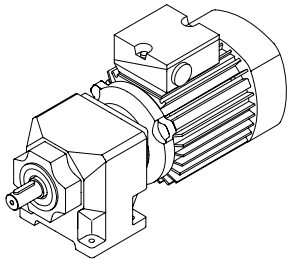
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
2.2									
	7.7	2720	0.8	179.67	27000	20000	**G6.3A DA100L4**	53	106
	8.7	2420	0.9	160.36	27000	19900	**G6.3B DA100L4**		106
	10	2040	1.1	134.750	27000	19900	**G6.3C DA100L4**		112
	12	1820	1.2	120.27	27000	19600			
	12	1720	1.3	113.79	27000	19700			
	14	1540	1.4	101.56	27000	19300			
	16	1350	1.7	89.14	27000	19100			
	17	1200	1.8	79.57	27000	18700			
	20	1060	2.1	70.070	27000	18500			
	22	945	2.3	62.54	27000	18000			
	27	790	2.8	52.360	27000	17500			
	16	1340	0.9	88.67	13600	14900	**G5.3A DA100L4**	52	71
	18	1200	1.0	79.11	13400	15200	**G5.3B DA100L4**		71
							G5.3C DA100L4		74
	20	1050	0.8	69.600	13200	15800	**G5.2A DA100L4**	52	65
	22	940	0.8	62.10	13000	16100	**G5.2B DA100L4**		65
	24	860	1.2	57.000	12900	16300	**G5.2C DA100L4**		68
	27	770	1.2	50.86	12600	16600			
	33	645	1.6	42.660	12200	17000			
	37	575	1.9	38.06	11900	17200			
	38	545	1.9	36.180	11800	17300			
	43	490	2.2	32.28	11500	17500			
	48	440	2.3	29.250	11300	17600			
	53	395	2.7	26.10	10900	17800			
	61	345	2.9	22.725	10600	17900			
	69	305	2.9	20.28	10300	18000			
	35	600	0.9	39.62	6190	9650	**G4.2A DA100L4**	51	41
	42	500	1.0	32.940	6200	10100	**G4.2B DA100L4**		37
	47	445	1.2	29.39	6120	10300	**G4.2C DA100L4**		39
	50	425	1.2	28.080	6130	10400			
	55	380	1.4	25.05	6030	10500			
	61	345	1.5	22.725	5980	10700			
	69	305	1.5	20.28	5860	10800			
	81	260	1.9	17.100	5720	11000			
	91	230	2.3	15.26	5580	11100			
	105	200	2.5	13.275	5450	11200			
	117	179	2.9	11.84	5310	11300			
	120	176	2.9	11.63	5300	11300			
	76	275	0.9	18.18	2930	6730	**G3.2A DA100L4**	50	30
	85	250	1.0	16.39	2930	6840	**G3.2B DA100L4**		28
	102	205	1.2	13.64	2950	7050	**G3.2C DA100L4**		29
	113	186	1.4	12.29	2930	7130			
	121	174	1.5	11.52	2930	7190			
	134	157	1.6	10.38	2890	6910			
	154	136	1.9	9.02	2860	6640			
	171	123	2.1	8.13	2810	6380			
	196	107	2.4	7.09	2760	6120			
	217	97	2.6	6.39	2710	5890			
3.0									
	2.7	10710	0.9	527.20	55500	101000	**G8.3/G3.2A DA100LX4**	55/56	264
	3.0	9660	1.0	475.21	55500	97300	**G8.3/G3.2B DA100LX4**		264
	3.4	8420	1.1	414.40	55500	92500	**G8.3/G3.2C DA100LX4**		280
	3.8	7590	1.2	373.54	55500	89200			

Motorreductores de engranajes helicoidales G



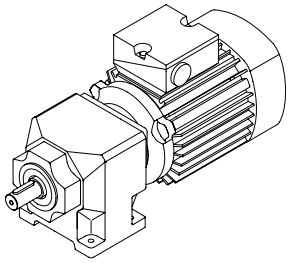
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
3.0									
	4.3	6660	1.2	327.78	55500	85100	**G8.3A DA100LX4**	55	272
	4.8	5940	1.2	292.56	55500	81800	**G8.3B DA100LX4**		272
	5.8	4980	1.8	245.000	55500	76900	**G8.3C DA100LX4**		288
	6.4	4440	1.8	218.68	55500	74000			
	6.7	4270	2.0	210.000	55500	73000			
	7.5	3810	2.4	187.44	55500	70200			
	8.3	3470	2.5	170.83	55500	68100			
	9.2	3100	3.0	152.48	55500	65600			
	5.4	5260	0.9	259.09	43800	47900	**G7.3A DA100LX4**	54	180
	6.1	4700	0.9	231.18	43800	45800	**G7.3B DA100LX4**		180
	7.3	3940	1.2	193.91	43800	42900	**G7.3C DA100LX4**		189
	8.1	3520	1.3	173.02	43800	41100			
	8.6	3340	1.4	164.45	43800	40300			
	9.6	2980	1.6	146.74	43800	38600			
	11	2700	1.7	132.95	43800	37300			
	12	2410	2.0	118.63	43800	35800			
	14	2100	2.2	103.30	43800	34100			
	15	1870	2.5	92.17	43800	32700			
	17	1660	2.8	81.82	43800	31400			
	10	2740	0.8	134.750	27000	17400	**G6.3A DA100LX4**	53	113
	12	2440	0.9	120.27	27000	17300	**G6.3B DA100LX4**		113
	12	2310	1.0	113.79	27000	17500	**G6.3C DA100LX4**		119
	14	2060	1.1	101.56	27000	17400			
	16	1810	1.2	89.14	27000	17400			
	18	1620	1.4	79.57	27000	17200			
	20	1420	1.6	70.070	27000	17100			
	23	1270	1.7	62.54	27000	16800			
	27	1060	2.1	52.360	27000	16500			
	30	950	2.3	46.73	27000	16200			
	36	795	2.8	39.08	27000	15700			
	20	1470	1.2	72.11	27000	17200	**G6.2A DA100LX4**	53	102
	22	1310	1.2	64.36	27000	16900	**G6.2B DA100LX4**		102
	26	1100	1.8	53.900	27000	16600	**G6.2C DA100LX4**		108
	29	980	1.8	48.11	27000	16200			
	31	940	2.0	46.200	27000	16200			
	34	840	2.4	41.24	27000	15800			
	38	765	2.5	37.58	27000	15600			
	42	680	3.0	33.55	27000	15200			
	25	1160	0.9	57.000	11600	15400	**G5.2A DA100LX4**	52	72
	28	1030	0.9	50.86	11500	15800	**G5.2B DA100LX4**		72
	33	865	1.2	42.660	11300	16300	**G5.2C DA100LX4**		75
	37	775	1.4	38.06	11000	16600			
	39	735	1.4	36.180	11000	16700			
	44	655	1.6	32.28	10800	16900			
	48	595	1.7	29.250	10600	17200			
	54	530	2.0	26.10	10300	17300			
	62	460	2.2	22.725	10100	17600			
	70	410	2.2	20.28	9810	17700			
	78	365	2.8	18.000	9570	17900			

Motorreductores de engranajes helicoidales G



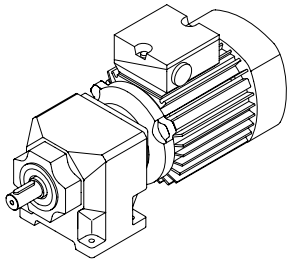
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
3.0									
	48	595	0.9	29.39	5270	9660	**G4.2A DA100LX4**	51	48
	50	570	0.9	28.080	5330	9800	**G4.2B DA100LX4**		44
	56	510	1.0	25.05	5300	10000	**G4.2C DA100LX4**		46
	62	460	1.1	22.725	5330	10200			
	70	410	1.2	20.28	5270	10400			
	82	345	1.4	17.100	5230	10700			
	92	310	1.7	15.26	5130	10800			
	106	270	1.9	13.275	5060	11000			
	119	240	2.2	11.84	4950	11100			
	121	235	2.1	11.63	4960	11100			
	136	210	2.5	10.38	4840	10800			
	165	174	2.9	8.550	4680	10000			
	86	335	0.8	16.39	2330	6440	**G3.2A DA100LX4**	50	37
	103	275	0.9	13.64	2460	6400	**G3.2B DA100LX4**		35
	115	250	1.0	12.29	2480	6230	**G3.2C DA100LX4**		36
	122	235	1.1	11.52	2510	6220			
	136	210	1.2	10.38	2510	6050			
	156	183	1.4	9.02	2530	5920			
	173	165	1.5	8.13	2510	5740			
	199	144	1.8	7.09	2500	5580			
	221	130	2.0	6.39	2470	5400			
	266	108	2.4	5.30	2430	5160			
	295	97	2.6	4.78	2380	4990			
	357	80	3.2	3.95	2310	4730			
	396	72	3.5	3.56	2260	4570			
4.0									
	3.4	11310	0.8	414.40	55500	95500	**G8.3/G3.2A DA112M4**	55/56	268
	3.7	10190	0.9	373.54	55500	91800	**G8.3/G3.2B DA112M4**		268
							G8.3/G3.2C DA112M4		285
	4.3	8940	0.9	327.78	55500	87500	**G8.3A DA112M4**	55	277
	4.8	7980	0.9	292.56	55500	83900	**G8.3B DA112M4**		277
	5.7	6680	1.3	245.000	55500	78700	**G8.3C DA112M4**		293
	6.4	5970	1.3	218.68	55500	75600			
	6.7	5730	1.5	210.000	55500	74500			
	7.5	5110	1.8	187.44	55500	71600			
	8.2	4660	1.9	170.83	55500	69400			
	9.2	4160	2.2	152.48	55500	66700			
	11	3590	2.4	131.67	55500	63500			
	12	3210	2.9	117.52	55500	61100			
	7.2	5290	0.9	193.91	43800	44600	**G7.3A DA112M4**	54	186
	8.1	4720	1.0	173.02	43800	42600	**G7.3B DA112M4**		186
	8.5	4490	1.0	164.45	43800	41800	**G7.3C DA112M4**		194
	9.5	4000	1.2	146.74	43800	40000			
	11	3630	1.3	132.95	43800	38500			
	12	3240	1.5	118.63	43800	36900			
	14	2820	1.7	103.30	43800	35000			
	15	2510	1.9	92.17	43800	33600			
	17	2230	2.1	81.82	43800	32200			
	19	1990	2.4	73.00	43800	30900			
	22	1740	2.7	63.82	43800	29500			
	25	1550	3.0	56.94	43800	28300			

Motorreductores de engranajes helicoidales G



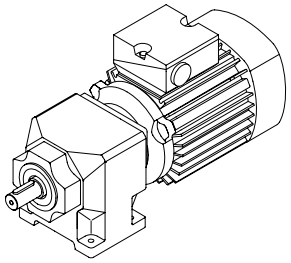
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
4.0									
	14	2770	0.8	101.56	27000	15000	**G6.3A DA112M4**	53	118
	16	2430	0.9	89.14	27000	15400	**G6.3B DA112M4**		118
	18	2170	1.0	79.57	27000	15300	**G6.3C DA112M4**		124
	20	1910	1.2	70.070	27000	15500			
	22	1710	1.3	62.54	27000	15400			
	27	1430	1.6	52.360	27000	15300			
	30	1280	1.7	46.73	27000	15100			
	36	1070	2.1	39.08	27000	14800			
	40	950	2.3	34.88	27000	14600			
	19	1970	0.9	72.11	27000	15500	**G6.2A DA112M4**	53	107
	22	1760	0.9	64.36	27000	15400	**G6.2B DA112M4**		107
	26	1470	1.3	53.900	27000	15300	**G6.2C DA112M4**		113
	29	1310	1.3	48.11	27000	15100			
	30	1260	1.5	46.200	27000	15100			
	34	1130	1.8	41.24	27000	14900			
	37	1030	1.9	37.58	27000	14800			
	42	915	2.2	33.55	27000	14500			
	48	790	2.4	28.97	27000	14200			
	54	705	2.9	25.85	27000	13900			
	33	1160	0.9	42.660	10200	15400	**G5.2A DA112M4**	52	77
	37	1040	1.0	38.06	10000	15700	**G5.2B DA112M4**		77
	39	985	1.0	36.180	10100	16000	**G5.2C DA112M4**		80
	43	880	1.2	32.28	9900	16200			
	48	800	1.3	29.250	9840	16500			
	54	710	1.5	26.10	9650	16800			
	62	620	1.6	22.725	9490	17100			
	69	555	1.6	20.28	9280	17300			
	78	490	2.1	18.000	9100	17500			
	87	440	2.4	16.06	8870	17600			
	100	385	2.7	14.040	8650	17800			
	56	685	0.8	25.05	4400	9320	**G4.2A DA112M4**	51	53
	62	620	0.8	22.725	4530	9610	**G4.2B DA112M4**		49
	69	555	0.9	20.28	4540	9830	**G4.2C DA112M4**		51
	82	465	1.1	17.100	4620	10200			
	92	415	1.3	15.26	4590	10400			
	105	360	1.4	13.275	4590	10600			
	118	325	1.6	11.84	4530	10400			
	120	315	1.6	11.63	4550	10400			
	135	285	1.8	10.38	4470	9980			
	164	235	2.2	8.550	4380	9420			
	184	210	2.5	7.63	4290	9030			
	190	200	2.5	7.38	4280	8970			
	201	190	2.6	6.97	4240	8800			
	213	180	2.9	6.58	4180	8600			
	114	335	0.8	12.29	1910	5040	**G3.2A DA112M4**	50	42
	122	315	0.8	11.52	1990	5130	**G3.2B DA112M4**		40
	135	285	0.9	10.38	2030	5070	**G3.2C DA112M4**		41
	155	245	1.0	9.02	2120	5100			
	172	220	1.2	8.13	2140	5000			
	197	193	1.3	7.09	2180	4960			
	219	174	1.5	6.39	2180	4850			
	264	145	1.8	5.30	2190	4720			
	293	130	2.0	4.78	2160	4590			
	354	108	2.4	3.95	2140	4420			
	393	97	2.6	3.56	2100	4290			

Motorreductores de engranajes helicoidales G



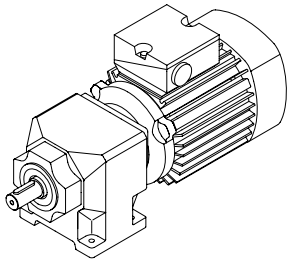
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
5.5									
	5.9	8940	1.0	245.000	55500	80200	**G8.3A DA132S4**	55	292
	6.6	7980	1.0	218.68	55500	76900	**G8.3B DA132S4**		292
	6.9	7660	1.1	210.000	55500	75800	**G8.3C DA132S4**		309
	7.7	6840	1.3	187.44	55500	72700			
	8.4	6230	1.4	170.83	55500	70300			
	9.4	5560	1.7	152.48	55500	67500			
	11	4800	1.8	131.67	55500	64100			
	12	4290	2.1	117.52	55500	61600			
	15	3610	2.4	98.86	55500	58100			
	16	3220	2.9	88.24	55500	55900			
	17	3030	2.9	83.000	55500	54700			
	8.8	6000	0.8	164.45	43800	43300	**G7.3A DA132S4**	54	201
	9.8	5350	0.9	146.74	43800	41300	**G7.3B DA132S4**		201
	11	4850	1.0	132.95	43800	39700	**G7.3C DA132S4**		209
	12	4330	1.1	118.63	43800	37900			
	14	3770	1.2	103.30	43800	35900			
	16	3360	1.4	92.17	43800	34400			
	18	2980	1.6	81.82	43800	32800			
	20	2660	1.8	73.00	43800	31500			
	23	2330	2.0	63.82	43800	29900			
	25	2080	2.3	56.94	43800	28700			
	27	1980	2.4	54.20	43800	28200			
	30	1760	2.7	48.36	43800	27100			
	18	2900	0.8	79.57	25600	12600	**G6.3A DA132S4**	53	134
							G6.3B DA132S4		134
							G6.3C DA132S4		140
	27	1970	1.0	53.900	27000	13500	**G6.2A DA132S4**	53	123
	30	1750	1.0	48.11	27000	13400	**G6.2B DA132S4**		123
	31	1690	1.1	46.200	27000	13500	**G6.2C DA132S4**		128
	35	1500	1.3	41.24	27000	13400			
	38	1370	1.4	37.58	27000	13400			
	43	1220	1.7	33.55	26800	13300			
	50	1060	1.8	28.97	26500	13100			
	56	945	2.1	25.85	26100	12900			
	66	795	2.4	21.750	25500	12700			
	74	710	2.9	19.41	25000	12400			
	79	665	2.9	18.260	24800	12300			
	38	1390	0.8	38.06	8520	14600	**G5.2A DA132S4**	52	92
	40	1320	0.8	36.180	8630	14900	**G5.2B DA132S4**		92
	45	1180	0.9	32.28	8600	15300	**G5.2C DA132S4**		96
	49	1070	1.0	29.250	8670	15700			
	55	950	1.1	26.10	8590	16000			
	63	830	1.2	22.725	8570	16400			
	71	740	1.2	20.28	8430	16700			
	80	655	1.6	18.000	8360	17000			
	90	585	1.8	16.06	8190	17200			
	103	510	2.0	14.040	8050	17400			
	115	455	2.3	12.53	7860	17200			
	121	435	2.4	11.925	7820	16900			
	135	390	2.8	10.64	7620	16100			

Motorreductores de engranajes helicoidales G



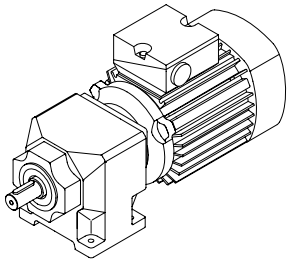
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
5.5									
	84	625	0.8	17.100	3740	9500	**G4.2A DA132S4**	51	69
	94	555	0.9	15.26	3780	9270	**G4.2B DA132S4**		65
	108	485	1.0	13.275	3900	9210	**G4.2C DA132S4**		67
	122	430	1.2	11.84	3900	8940			
	124	425	1.2	11.63	3930	9000			
	139	380	1.4	10.38	3910	8730			
	168	310	1.6	8.550	3920	8430			
	189	280	1.9	7.63	3870	8140			
	207	255	2.0	6.97	3860	8010			
	232	225	2.3	6.22	3790	7730			
	274	191	2.6	5.250	3710	7420			
	307	171	3.1	4.68	3630	7150			
	364	144	3.5	3.95	3540	6830			
	408	129	3.7	3.53	3450	6570			
7.5									
	6.9	10450	0.8	210.000	55500	78400	**G8.3A DA132M4**	55	297
	7.7	9320	1.0	187.44	55500	75100	**G8.3B DA132M4**		297
	8.4	8500	1.0	170.83	55500	72500	**G8.3C DA132M4**		313
	9.4	7580	1.2	152.48	55500	69400			
	11	6550	1.3	131.67	55500	65800			
	12	5850	1.6	117.52	55500	63100			
	15	4920	1.8	98.86	55500	59300			
	16	4390	2.1	88.24	55500	57000			
	17	4130	2.1	83.000	55500	55800			
	19	3680	2.5	74.08	55500	53600			
	22	3260	2.7	65.48	55500	51400			
	12	5900	0.8	118.63	38300	39800	**G7.3A DA132M4**	54	206
	14	5140	0.9	103.30	39800	37600	**G7.3B DA132M4**		206
	16	4580	1.0	92.17	40800	35800	**G7.3C DA132M4**		214
	18	4070	1.1	81.82	41400	34100			
	20	3630	1.3	73.00	41800	32600			
	23	3170	1.5	63.82	42100	31000			
	25	2830	1.7	56.94	42000	29600			
	27	2700	1.7	54.20	42000	29100			
	30	2410	2.0	48.36	41800	27900			
	37	1950	2.4	39.27	41100	25800			
	41	1740	2.7	35.04	40500	24800			
	45	1580	2.9	31.76	40000	23900			
	31	2300	0.8	46.200	23200	11400	**G6.2A DA132M4**	53	127
	35	2050	1.0	41.24	23300	11500	**G6.2B DA132M4**		127
	38	1870	1.0	37.58	23800	11700	**G6.2C DA132M4**		133
	43	1670	1.2	33.55	23700	11700			
	50	1440	1.3	28.97	23900	11800			
	56	1290	1.6	25.85	23700	11700			
	66	1080	1.8	21.750	23600	11700			
	74	965	2.1	19.41	23200	11500			
	79	910	2.1	18.260	23200	11500			
	88	810	2.5	16.30	22800	11300			
	100	715	2.7	14.40	22500	11100			

Motorreductores de engranajes helicoidales G



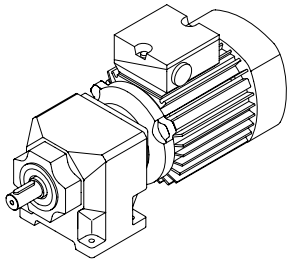
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
7.5									
	55	1300	0.8	26.10	7220	14900	**G5.2A DA132M4**	52	97
	63	1130	0.9	22.725	7390	15500	**G5.2B DA132M4**		97
	71	1010	0.9	20.28	7370	15800	**G5.2C DA132M4**		100
	80	895	1.1	18.000	7430	16200			
	90	800	1.3	16.06	7350	16500			
	103	700	1.5	14.040	7330	16400			
	115	625	1.7	12.53	7210	15700			
	121	595	1.7	11.925	7200	15600			
	135	530	2.0	10.64	7070	14900			
	167	430	2.4	8.640	6870	14000			
	187	385	2.8	7.71	6710	13400			
	206	350	2.9	6.99	6610	13100			
	108	660	0.8	13.275	2980	7280	**G4.2A DA132M4**	51	74
	122	590	0.9	11.84	3070	7230	**G4.2B DA132M4**		69
	124	580	0.9	11.63	3130	7350	**G4.2C DA132M4**		71
	139	515	1.0	10.38	3190	7250			
	168	425	1.2	8.550	3330	7270			
	189	380	1.4	7.63	3330	7110			
	207	345	1.4	6.97	3370	7090			
	232	310	1.7	6.22	3350	6910			
	274	260	1.9	5.250	3350	6750			
	307	235	2.2	4.68	3300	6550			
	364	197	2.6	3.95	3260	6340			
	408	175	2.7	3.53	3200	6140			
9.2									
	7.6	11520	0.8	187.44	55500	77300	**G8.3A DA132MX4**	55	301
	8.4	10500	0.8	170.83	55500	74500	**G8.3B DA132MX4**		301
	9.4	9370	1.0	152.48	55500	71300	**G8.3C DA132MX4**		318
	11	8090	1.1	131.67	55500	67400			
	12	7220	1.3	117.52	55500	64500			
	14	6070	1.4	98.86	55500	60500			
	16	5420	1.7	88.24	55500	58100			
	17	5100	1.7	83.000	55500	56800			
	19	4550	2.0	74.08	55500	54500			
	22	4020	2.2	65.48	55500	52200			
	24	3590	2.6	58.44	55500	50200			
	27	3280	2.7	53.33	55500	48600			
	16	5660	0.8	92.17	34500	37200	**G7.3A DA132MX4**	54	210
	17	5030	0.9	81.82	35900	35400	**G7.3B DA132MX4**		210
	20	4490	1.1	73.00	36900	33700	**G7.3C DA132MX4**		218
	22	3920	1.2	63.82	37700	31900			
	25	3500	1.4	56.94	38200	30500			
	26	3330	1.4	54.20	38300	29900			
	30	2970	1.6	48.36	38500	28600			
	36	2410	1.9	39.27	38400	26400			
	41	2150	2.2	35.04	38200	25300			
	45	1950	2.4	31.76	37900	24400			
	50	1740	2.7	28.34	37500	23400			
	55	1590	2.9	25.84	37100	22600			

Motorreductores de engranajes helicoidales G



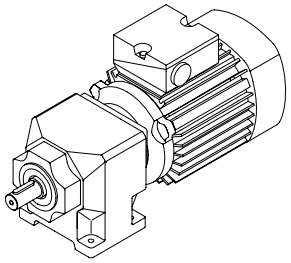
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
9.2									
	35	2530	0.8	41.24	20100	9860	**G6.2A DA132MX4**	53	131
	38	2310	0.8	37.58	20900	10300	**G6.2B DA132MX4**		131
	43	2060	1.0	33.55	21100	10400	**G6.2C DA132MX4**		137
	49	1780	1.1	28.97	21700	10700			
	55	1590	1.3	25.85	21700	10700			
	66	1340	1.4	21.750	21900	10800			
	74	1190	1.7	19.41	21700	10700			
	78	1120	1.7	18.260	21800	10800			
	88	1000	2.0	16.30	21500	10600			
	99	885	2.2	14.40	21400	10600			
	111	790	2.6	12.86	21000	10400			
	122	720	2.7	11.73	20900	10300			
	79	1110	0.9	18.000	6630	15600	**G5.2A DA132MX4**	52	101
	89	985	1.1	16.06	6630	15300	**G5.2B DA132MX4**		101
	102	865	1.2	14.040	6710	15000	**G5.2C DA132MX4**		104
	114	770	1.4	12.53	6650	14500			
	120	735	1.4	11.925	6680	14400			
	134	655	1.6	10.64	6600	13900			
	166	530	1.9	8.640	6500	13300			
	185	475	2.3	7.71	6370	12800			
	205	430	2.4	6.99	6310	12500			
	229	385	2.8	6.24	6170	12000			
	252	350	2.9	5.68	6090	11700			
	138	640	0.8	10.38	2560	6050	**G4.2A DA132MX4**	51	78
	167	525	1.0	8.550	2820	6310	**G4.2B DA132MX4**		74
	187	470	1.1	7.63	2870	6250	**G4.2C DA132MX4**		76
	205	430	1.2	6.97	2960	6330			
	230	380	1.4	6.22	2980	6230			
	272	325	1.6	5.250	3040	6200			
	305	290	1.8	4.68	3030	6050			
	362	245	2.1	3.95	3030	5940			
	406	215	2.2	3.53	2990	5770			
11.0									
	9.6	10930	0.8	152.48	55500	72300	**G8.3A DA160M4**	55	316
	11	9440	0.9	131.67	55500	68200	**G8.3B DA160M4**		316
	12	8430	1.1	117.52	55500	65300	**G8.3C DA160M4**		333
	15	7090	1.2	98.86	55500	61100			
	17	6330	1.5	88.24	55500	58600			
	18	5950	1.5	83.000	55500	57200			
	20	5310	1.7	74.08	55500	54900			
	22	4700	1.9	65.48	55500	52500			
	25	4190	2.2	58.44	55500	50400			
	27	3820	2.3	53.33	55500	48800			
	31	3410	2.7	47.60	55500	46900			
	36	2910	3.0	40.52	55500	44400			
	18	5870	0.8	81.82	30400	36200	**G7.3A DA160M4**	54	225
	20	5230	0.9	73.00	32000	34400	**G7.3B DA160M4**		225
	23	4580	1.0	63.82	33400	32500	**G7.3C DA160M4**		233
	26	4080	1.2	56.94	34300	31000			
	27	3890	1.2	54.20	34600	30400			
	30	3470	1.4	48.36	35200	29000			
	37	2820	1.7	39.27	35700	26700			
	42	2510	1.9	35.04	35700	25600			
	46	2280	2.0	31.76	35600	24600			
	52	2030	2.3	28.34	35400	23600			
	57	1850	2.5	25.84	35200	22800			
	64	1650	2.9	23.05	34800	21900			

Motorreductores de engranajes helicoidales G



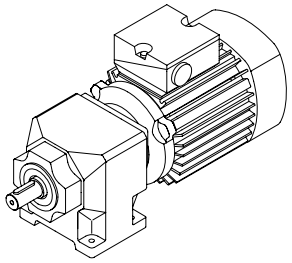
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
11.0									
	44	2410	0.8	33.55	18500	9060	**G6.2A DA160M4**	53	150
	51	2080	0.9	28.97	19400	9580	**G6.2B DA160M4**		150
	57	1850	1.1	25.85	19600	9670	**G6.2C DA160M4**		156
	67	1560	1.2	21.750	20200	9970			
	75	1390	1.5	19.41	20100	9940			
	80	1310	1.5	18.260	20300	10000			
	90	1170	1.7	16.30	20200	9960			
	102	1030	1.9	14.40	20200	9990			
	114	920	2.2	12.86	19900	9860			
	125	840	2.3	11.73	19900	9840			
	140	750	2.7	10.47	19500	9670			
	164	640	3.0	8.91	19200	9520			
	81	1290	0.8	18.000	5820	13900	**G5.2A DA160M4**	52	119
	91	1150	0.9	16.06	5890	13600	**G5.2B DA160M4**		119
	104	1010	1.0	14.040	6070	13600	**G5.2C DA160M4**		122
	117	900	1.2	12.53	6060	13200			
	123	855	1.2	11.925	6130	13200			
	138	765	1.4	10.64	6090	12800			
	170	620	1.7	8.640	6080	12400			
	190	555	1.9	7.71	5990	12000			
	210	500	2.0	6.99	5960	11800			
	235	445	2.4	6.24	5850	11400			
	258	410	2.5	5.68	5800	11200			
	289	365	3.0	5.07	5680	10800			
	320	330	3.3	4.58	5580	10500			
	351	300	3.4	4.17	5500	10300			
	393	265	4.0	3.72	5360	9880			
15.0									
	15	9670	0.9	98.86	55500	63600	**G8.3A DA160L4**	55	336
	17	8630	1.1	88.24	55500	60800	**G8.3B DA160L4**		336
	18	8120	1.1	83.000	55500	59300	**G8.3C DA160L4**		352
	20	7240	1.3	74.08	55500	56700			
	22	6400	1.4	65.48	55500	54100			
	25	5710	1.6	58.44	55500	51900			
	27	5220	1.7	53.33	55500	50100			
	31	4650	2.0	47.60	55500	48100			
	36	3960	2.2	40.52	55500	45400			
	41	3540	2.6	36.16	55500	43600			
	45	3190	2.7	32.58	55500	42000			
	26	5570	0.8	56.94	25500	32800	**G7.3A DA160L4**	54	244
	27	5300	0.9	54.20	26200	32100	**G7.3B DA160L4**		244
	30	4730	1.0	48.36	27600	30600	**G7.3C DA160L4**		253
	37	3840	1.2	39.27	29600	28000			
	42	3430	1.4	35.04	30300	26700			
	46	3110	1.5	31.76	30700	25600			
	52	2770	1.7	28.34	31000	24500			
	57	2530	1.8	25.84	31200	23600			
	64	2250	2.1	23.05	31300	22600			
	70	2030	2.3	20.81	31200	21700			
	77	1850	2.5	18.97	31100	21000			
	83	1720	2.6	17.61	31000	20400			
	87	1650	2.9	16.92	30900	20100			
	103	1390	2.9	14.24	30400	18900			

Motorreductores de engranajes helicoidales G



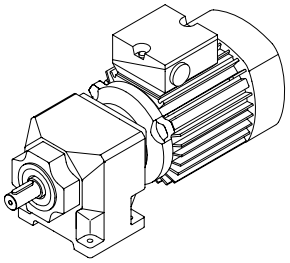
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
15.0									
	67	2130	0.9	21.750	16300	8040	**G6.2A DA160L4**	53	169
	75	1900	1.1	19.41	16600	8190	**G6.2B DA160L4**		169
	80	1790	1.1	18.260	17100	8420	**G6.2C DA160L4**		175
	90	1590	1.3	16.30	17200	8490			
	102	1410	1.4	14.40	17600	8710			
	114	1260	1.6	12.86	17600	8690			
	125	1150	1.7	11.73	17800	8790			
	140	1020	2.0	10.47	17600	8720			
	164	870	2.2	8.91	17600	8730			
	184	780	2.6	7.96	17400	8610			
	204	700	2.7	7.17	17300	8570			
	117	1220	0.9	12.53	4770	10600	**G5.2A DA160L4**	52	138
	123	1170	0.9	11.925	4920	10800	**G5.2B DA160L4**		138
	138	1040	1.0	10.64	4990	10700	**G5.2C DA160L4**		141
	170	845	1.2	8.640	5210	10700			
	190	755	1.4	7.71	5200	10500			
	210	685	1.5	6.99	5250	10500			
	235	610	1.8	6.24	5210	10200			
	258	555	1.8	5.68	5220	10100			
	289	495	2.2	5.07	5150	9830			
	320	450	2.4	4.58	5100	9630			
	351	410	2.5	4.17	5080	9490			
	393	365	2.9	3.72	4980	9200			
18.5									
	17	10640	0.9	88.24	55500	62700	**G8.3A DA180M4**	55	361
	18	10010	0.9	83.000	55500	61100	**G8.3B DA180M4**		361
	20	8930	1.0	74.08	55500	58400	**G8.3C DA180M4**		378
	22	7900	1.1	65.48	55500	55600			
	25	7050	1.3	58.44	55500	53100			
	27	6430	1.4	53.33	55500	51300			
	31	5740	1.6	47.60	55500	49100			
	36	4890	1.8	40.52	55500	46200			
	41	4360	2.1	36.16	55500	44400			
	45	3930	2.2	32.58	55500	42700			
	50	3510	2.6	29.08	55500	41000			
	56	3180	2.7	26.35	55500	39600			
	30	5830	0.8	48.36	21100	31900	**G7.3A DA180M4**	54	270
	37	4740	1.0	39.27	24200	29100	**G7.3B DA180M4**		270
	42	4230	1.1	35.04	25500	27700	**G7.3C DA180M4**		278
	46	3830	1.2	31.76	26400	26500			
	52	3420	1.4	28.34	27200	25300			
	57	3120	1.5	25.84	27700	24300			
	64	2780	1.7	23.05	28100	23200			
	70	2510	1.9	20.81	28400	22300			
	77	2290	2.0	18.97	28500	21500			
	83	2120	2.1	17.61	28600	20900			
	87	2040	2.3	16.92	28600	20600			
	103	1720	2.3	14.24	28400	19300			
	126	1400	2.5	11.58	28000	17900			

Motorreductores de engranajes helicoidales G



P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
18.5									
	75	2340	0.9	19.41	13600	6650	**G6.2A DA180M4**	53	195
	80	2200	0.9	18.260	14300	7000	**G6.2B DA180M4**		195
	90	1970	1.0	16.30	14700	7200	**G6.2C DA180M4**		200
	102	1740	1.1	14.40	15400	7590			
	114	1550	1.3	12.86	15600	7680			
	125	1420	1.4	11.73	16000	7880			
	140	1260	1.6	10.47	16000	7890			
	164	1070	1.8	8.91	16300	8040			
	184	960	2.1	7.96	16100	7980			
	204	865	2.2	7.17	16200	8010			
	229	770	2.6	6.40	16000	7910			
	253	700	2.7	5.80	16000	7900			
	138	1280	0.8	10.64	4030	8840	**G5.2A DA180M4**	52	163
	170	1040	1.0	8.640	4440	9270	**G5.2B DA180M4**		163
	190	930	1.2	7.71	4500	9190	**G5.2C DA180M4**		167
	210	845	1.2	6.99	4630	9310			
	235	750	1.4	6.24	4650	9170			
	258	685	1.5	5.68	4720	9200			
	289	610	1.8	5.07	4700	9010			
	320	550	1.9	4.58	4690	8900			
	351	505	2.0	4.17	4710	8840			
	393	450	2.4	3.72	4640	8610			
22.0									
	23	9330	0.9	65.48	55500	56800	**G8.3A DA180L4**	55	394
	25	8320	1.1	58.44	55500	54300	**G8.3B DA180L4**		394
	28	7600	1.2	53.33	55500	52300	**G8.3C DA180L4**		411
	31	6780	1.4	47.60	55500	50000			
	36	5770	1.5	40.52	55500	47000			
	41	5150	1.8	36.16	55500	45000			
	45	4640	1.9	32.58	55500	43300			
	51	4140	2.2	29.08	55500	41500			
	56	3750	2.3	26.35	55500	40100			
	63	3350	2.7	23.52	55500	38400			
	70	3020	3.0	21.17	55500	37000			
	38	5590	0.8	39.27	19000	30100	**G7.3A DA180L4**	54	303
	42	4990	0.9	35.04	20800	28500	**G7.3B DA180L4**		303
	46	4520	1.0	31.76	22200	27300	**G7.3C DA180L4**		312
	52	4040	1.2	28.34	23400	26000			
	57	3680	1.3	25.84	24200	25000			
	64	3280	1.4	23.05	25000	23800			
	84	2510	1.8	17.61	26200	21300			
	104	2030	2.0	14.24	26500	19600			
	127	1650	2.1	11.58	26400	18100			
	102	2050	0.9	14.40	13200	6490	**G6.2A DA180L4**	53	227
	115	1830	1.1	12.86	13600	6670	**G6.2B DA180L4**		227
	126	1670	1.2	11.73	14200	6980	**G6.2C DA180L4**		232
	141	1490	1.4	10.47	14400	7080			
	165	1270	1.5	8.91	14900	7350			
	185	1130	1.8	7.96	14900	7350			
	206	1020	1.9	7.17	15100	7460			
	231	910	2.2	6.40	15000	7410			
	254	825	2.3	5.80	15100	7450			
	285	735	2.7	5.17	14900	7360			
	317	665	3.0	4.66	14800	7310			
	349	600	3.2	4.22	14700	7280			
	392	535	3.7	3.77	14400	7150			

Motorreductores de engranajes helicoidales G



P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
30.0									
	25	11350	0.8	58.44	45400	57100	**G8.3A DA200L4**	55	431
	28	10360	0.8	53.33	47300	54900	**G8.3B DA200L4**		431
	31	9250	1.0	47.60	49200	52400	**G8.3C DA200L4**		448
	36	7870	1.1	40.52	51100	49000			
	41	7020	1.3	36.16	52100	46800			
	45	6330	1.4	32.58	52600	44900			
	51	5650	1.6	29.08	53000	43000			
	56	5120	1.7	26.35	53100	41400			
	63	4570	2.0	23.52	53000	39600			
	70	4110	2.2	21.17	52800	38100			
	77	3730	2.3	19.19	52500	36700			
	86	3330	2.7	17.12	52000	35200			
	52	5510	0.9	28.34	14700	27800	**G7.3A DA200L4**	54	340
	57	5020	0.9	25.84	16300	26600	**G7.3B DA200L4**		340
	64	4480	1.1	23.05	17900	25300	**G7.3C DA200L4**		348
	84	3420	1.3	17.61	20800	22400			
	104	2770	1.4	14.24	22100	20500			
	127	2250	1.6	11.58	22900	18900			
	115	2500	0.8	12.86	9010	4360	**G6.2A DA200L4**	53	264
	126	2280	0.8	11.73	10100	4910	**G6.2B DA200L4**		264
	141	2030	1.0	10.47	10600	5190	**G6.2C DA200L4**		269
	165	1730	1.1	8.91	11800	5770			
	185	1550	1.3	7.96	12100	5920			
	206	1390	1.4	7.17	12600	6190			
	231	1240	1.6	6.40	12700	6260			
	254	1130	1.7	5.80	13000	6420			
	285	1010	2.0	5.17	13000	6430			
	317	905	2.2	4.66	13100	6470			
	349	820	2.3	4.22	13200	6540			
	392	730	2.7	3.77	13100	6480			

Motorreductores de engranajes helicoidales G para muy baja velocidad

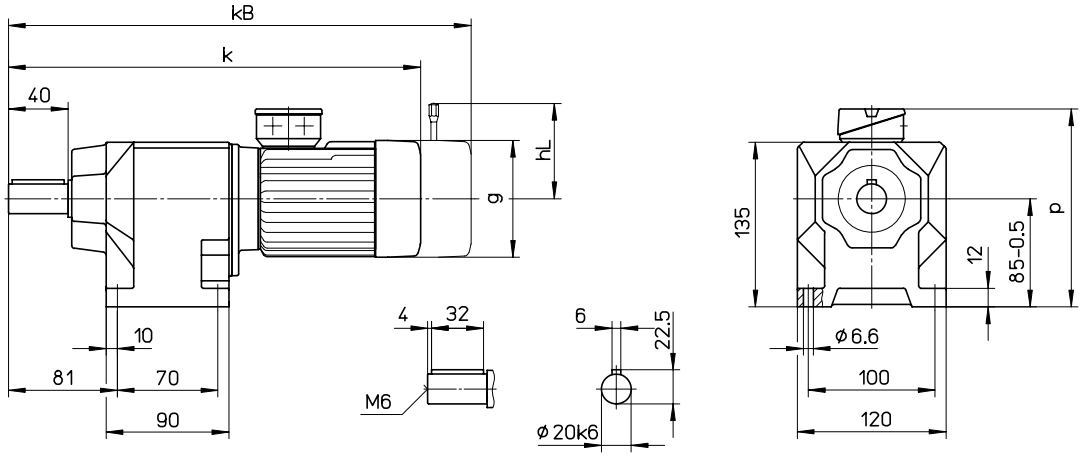
M [Nm]	n2 Peso [1/min]	i	Tipo	Dimensiones Página	[kg]
270	**0.37**	3820.4	**G3.2/G1.2A DL63K4**	50/56	24
	0.41	3472.3	**G3.2/G1.2B DL63K4**		22
	0.42	3361.3	**G3.2/G1.2C DL63K4**		23
	0.47	2975.9			
	0.52	2704.7			
	0.54	2618.2			
	0.59	2379.7			
	0.67	2105.4			
	0.74	1913.5			
	0.80	1754.5			
	0.88	1594.6			
	1.0	1349.6			
	1.1	1226.6			
	1.5	944.73			
	1.6	858.64			
	1.8	775.06			
	2.0	704.43			
	2.3	613.11			
	2.5	557.24			
	2.8	506.10			
	3.1	459.98			
610	**0.31**	4618.2	**G4.2/G1.2A DL63K4**	51/56	36
	0.34	4197.4	**G4.2/G1.2B DL63K4**		32
	0.35	4063.2	**G4.2/G1.2C DL63K4**		34
	0.39	3622.9			
	0.43	3292.8			
	0.44	3187.5			
	0.49	2897.1			
	0.55	2563.2			
	0.61	2329.6			
	0.66	2136.0			
	0.73	1941.3			
	0.86	1643.1			
	0.94	1493.3			
	1.2	1150.1			
	1.3	1045.3			

M [Nm]	n2 Peso [1/min]	i	Tipo	Dimensiones Página	[kg]
1200	**0.044**	31938	**G5.3/G1.2A DL63K4**	52/56	65
	0.049	29028	**G5.3/G1.2B DL63K4**		65
	0.050	28100	**G5.3/G1.2C DL63K4**		69
	0.057	24794			
	0.063	22535			
	0.065	21815			
	0.071	19827			
	0.080	17542			
	0.088	15943			
	0.096	14618			
	0.11	13286			
	0.13	11245			
	0.14	10220			
	0.18	7871.2			
	0.20	7154.0			
	0.22	6457.6			
	0.24	5869.2			
	0.28	5108.3			
	0.30	4642.8			
	0.33	4216.7			
	0.37	3832.5			
	0.44	3210.5			
	0.48	2918.0			
	0.56	2514.7			
	0.62	2285.6			
2300	**0.037**	37752	**G6.3/G1.2A DL63K4**	53/56	101
	0.041	34312	**G6.3/G1.2B DL63K4**		101
	0.042	33215	**G6.3/G1.2C DL63K4**		107
	0.048	29407			
	0.053	26727			
	0.054	25873			
	0.060	23515			
	0.068	20805			
	0.075	18909			
	0.081	17337			
	0.089	15757			
	0.11	13336			
	0.12	12121			
	0.15	9335.5			
	0.17	8484.8			
	0.18	7658.9			
	0.20	6961.0			
	0.23	6058.5			
	0.26	5506.4			
	0.28	5001.1			
	0.31	4545.4			
	0.37	3807.8			
4730	**0.12**	11954	**G7.3/G3.2A DL63K4**	54/56	155
	0.13	10775	**G7.3/G3.2B DL63K4**		155
	0.14	9961.6	**G7.3/G3.2C DL63K4**		163
	0.16	8979.2			
	0.18	7759.5			

Motorreductores de engranajes helicoidales G

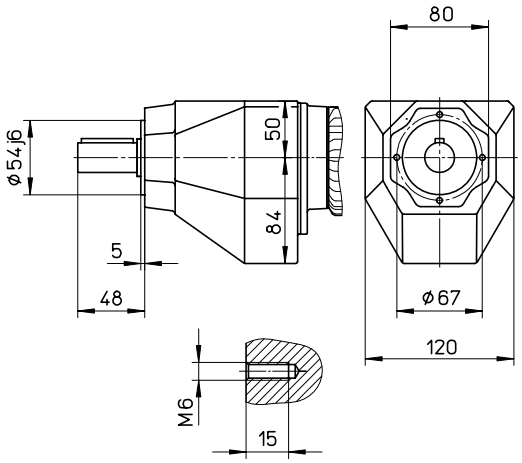
G1.2A

Versión con pie



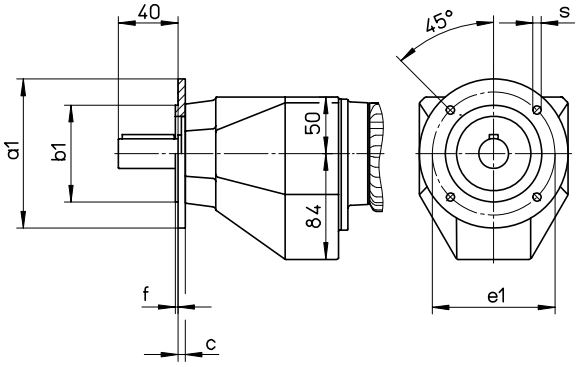
G1.2B

Versión con brida B14



G1.2C

Versión con brida B5



	k	kB	g	p	hL
G1.2_ DL63/71	358	410	126	198	106
G1.2_ DA80	407	478	158	220	128

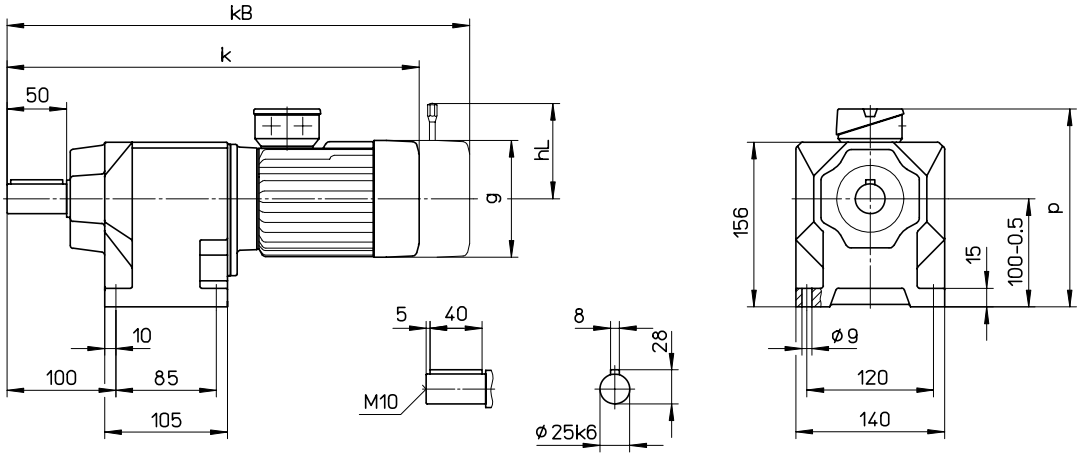
Brida	a1	e1	b1	s	c	f
Ø120	120	100	80 j6	6.6	8	3
Ø140	140	115	95 j6	9	9	3

Las cotas kB y hL conciernen a los motorreductores con freno.

Motorreductores de engranajes helicoidales G

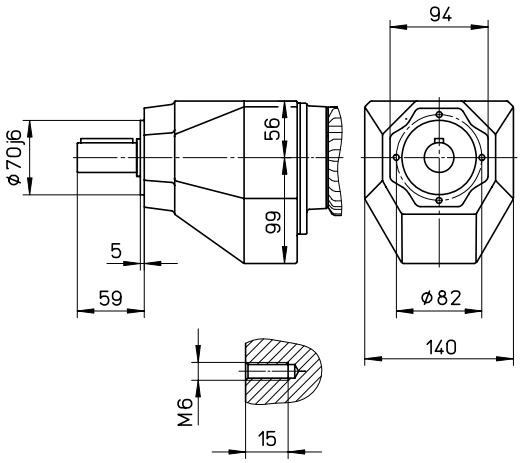
G2.2A

Versión con pie



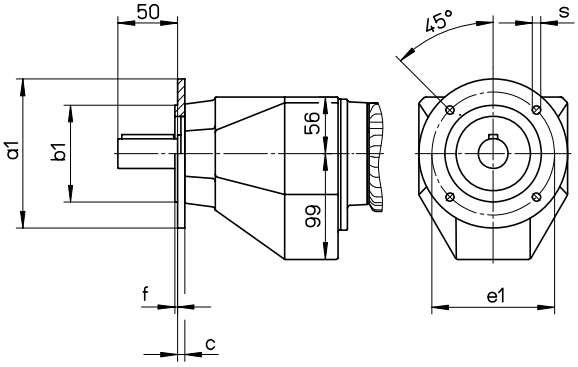
G2.2B

Versión con brida B14



G2.2C

Versión con brida B5



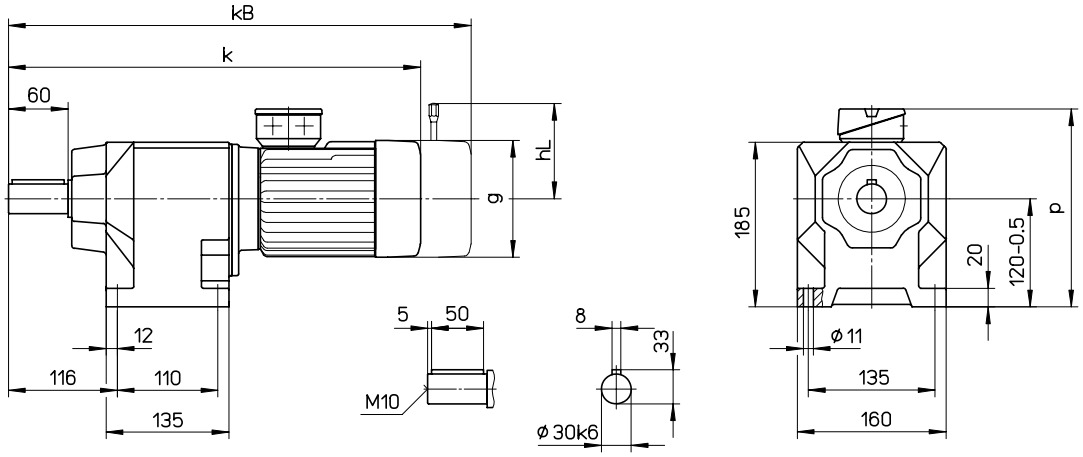
	k	kB	g	p	hL
G2.2_ DL63/71	389	441	126	213	106
G2.2_ DA80	437	508	158	235	128
G2.2_ DA90S	437	508	158	235	128
G2.2_ DA90L	484	549	176	249	168

Brida	a1	e1	b1	s	c	f
Ø140	140	115	95 j6	9	9	3
Ø160	160	130	110 j6	9	9	3.5

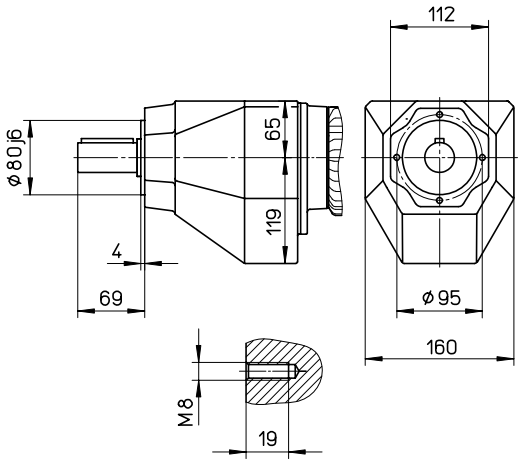
Las cotas kB y hL conciernen a los motorreductores con freno.

Motorreductores de engranajes helicoidales G

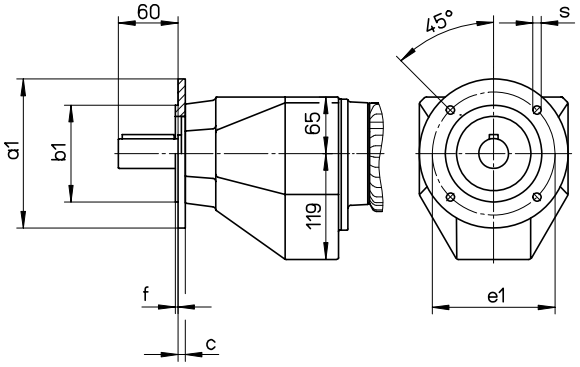
G3.2A, G3.3A Versión con pie



G3.2B, G3.3B Versión con brida B14



G3.2C, G3.3C Versión con brida B5

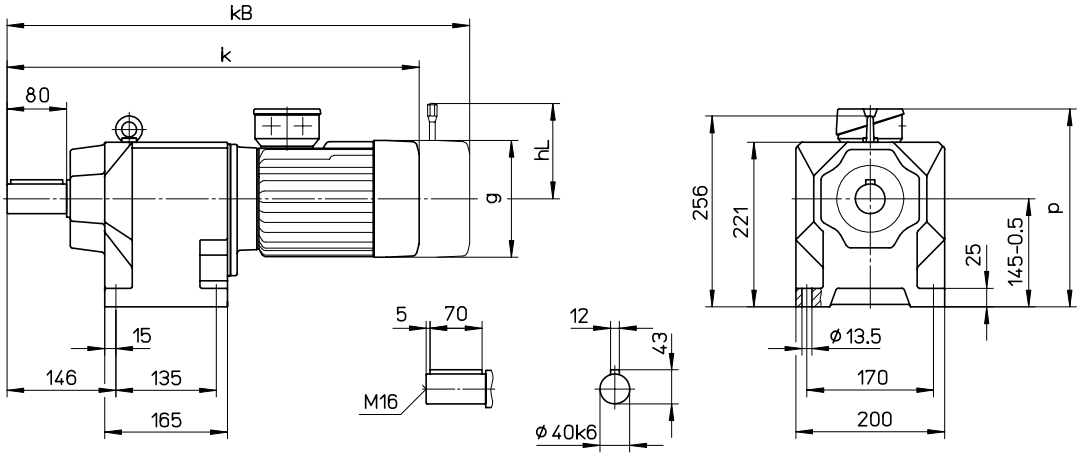


	k	kB	g	p	hL
G3.3_ DL63/71	453	505	126	233	106
G3.2_ DL63/71	427	479	126	233	106
G3.3_ DA80	502	573	158	255	128
G3.2_ DA80	476	547	158	255	128
G3.2_ DA90S	476	547	158	255	128
G3.2_ DA90L	523	587	176	269	168
G3.2_ DA100L	523	587	176	269	168
G3.2_ DA100LX	560	634	195	276	176
G3.2_ DA112	560	634	195	276	176

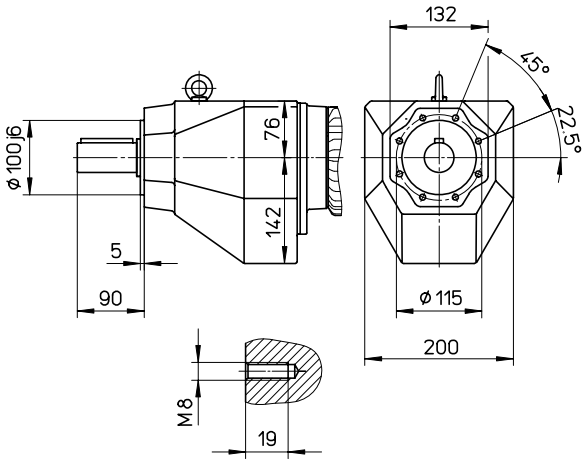
Brida	a1	e1	b1	s	c	f
Ø160	160	130	110 j6	9	9	3.5
Ø200	200	165	130 j6	11	10	3.5

Las cotas kB y hL conciernen a los motorreductores con freno.

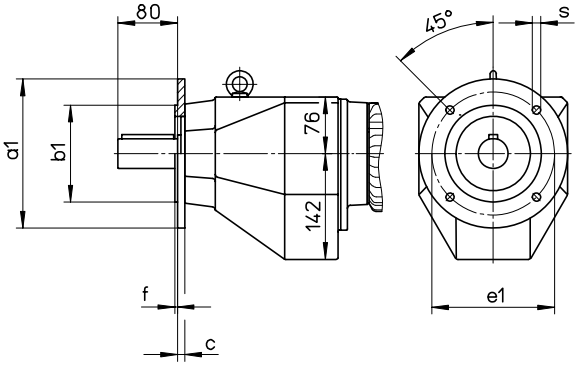
G4.2A, G4.3A Versión con pie



G4.2B, G4.3B Versión con brida B14



G4.2C, G4.3C Versión con brida B5

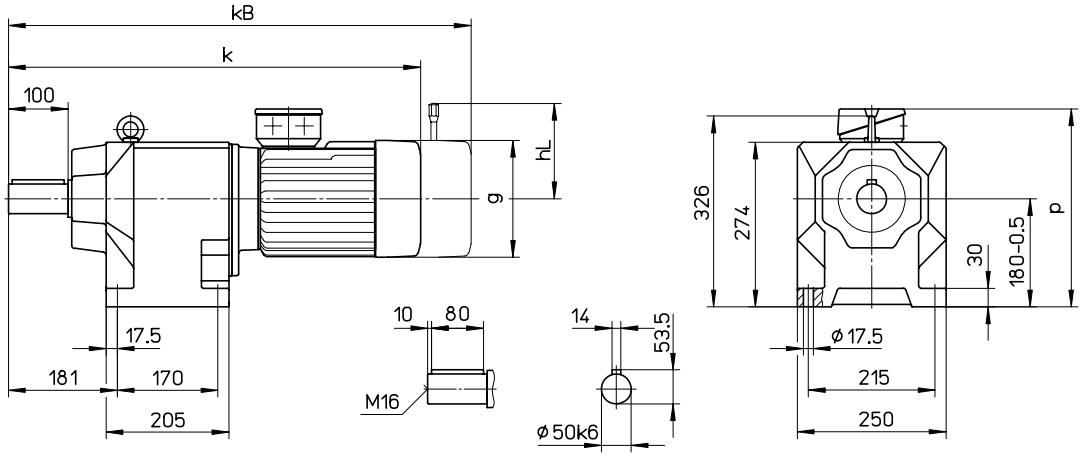


	k	kB	g	p	hL
G4.3_ DL63/71	507	559	126	258	106
G4.2_ DA80	528	599	158	280	128
G4.3_ DA80	555	626	158	280	128
G4.2_ DA90S	528	599	158	280	128
G4.3_ DA90S	555	626	158	280	128
G4.2_ DA90L	575	640	176	293	168
G4.2_ DA100L	575	640	176	293	168
G4.2_ DA100LX	613	687	195	301	176
G4.2_ DA112	613	687	195	301	176
G4.2_ DA132	717	816	245	333	225

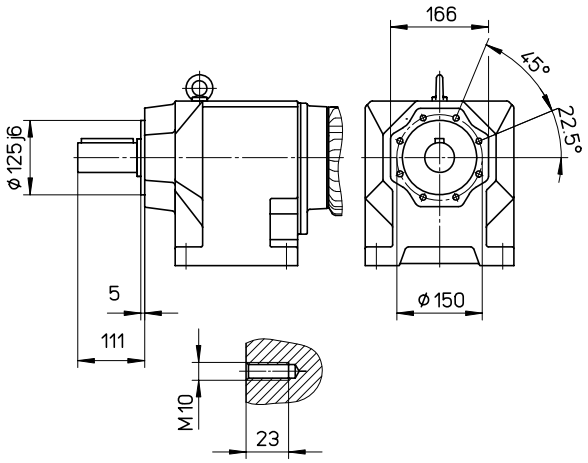
Las cotas kB y hL conciernen a los motorreductores con freno.

Brida	a1	e1	b1	s	c	f
Ø200	200	165	130 j6	11	10	3.5
Ø250	250	215	180 j6	13.5	11	4

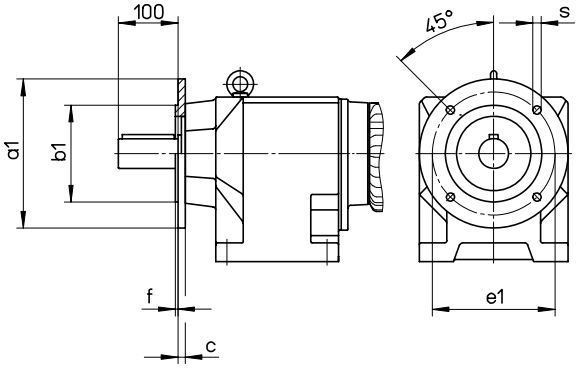
G5.2A, G5.3A Versión con pie



G5.2B, G5.3B Versión con brida B14



G5.2C, G5.3C Versión con brida B5

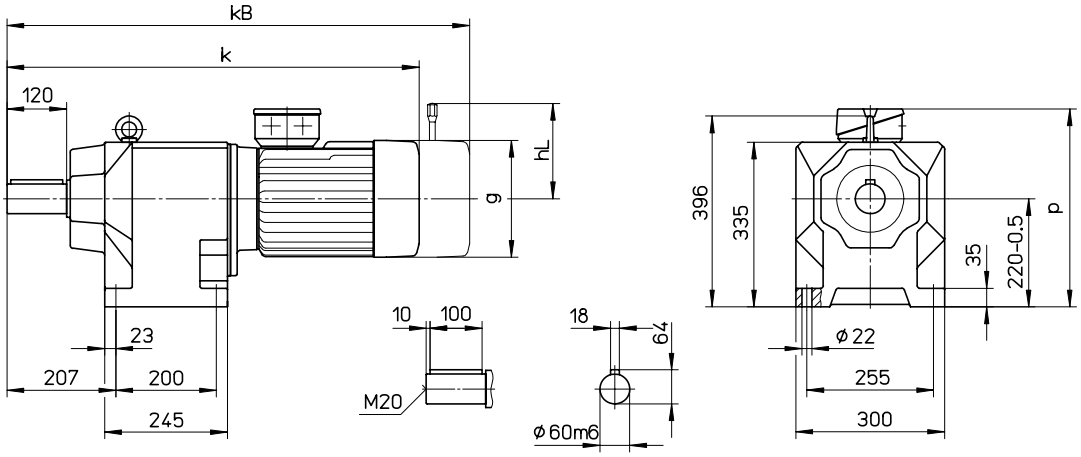


	k	kB	g	p	hL
G5.3_ DL63/71	577	629	126	293	106
G5.3_ DA80	626	697	158	315	128
G5.2_ DA90L	640	704	176	329	168
G5.3_ DA90S	626	697	158	315	128
G5.3_ DA90L	673	738	176	329	168
G5.2_ DA100L	640	704	176	329	168
G5.3_ DA100L	673	738	176	329	168
G5.2_ DA100LX	677	751	195	336	176
G5.2_ DA112	677	751	195	336	176
G5.2_ DA132	781	880	245	368	225
G5.2_ DA160	906	1025	311	430	256
G5.2_ DA180M	906	1025	311	430	256

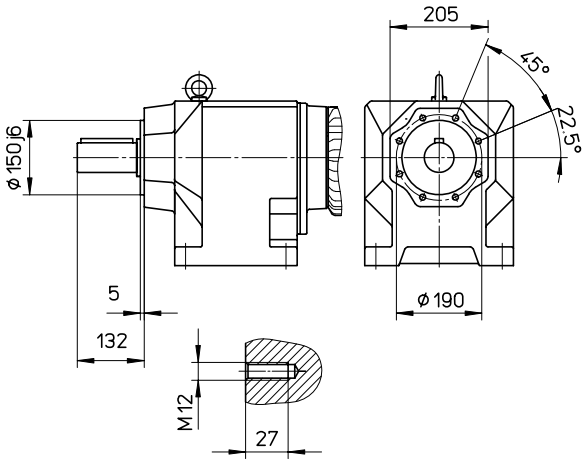
Brida	a1	e1	b1	s	c	f
Ø250	250	215	180 j6	13.5	11	4
Ø300	300	265	230 j6	13.5	12	4

Las cotas kB y hL conciernen a los motorreductores con freno.

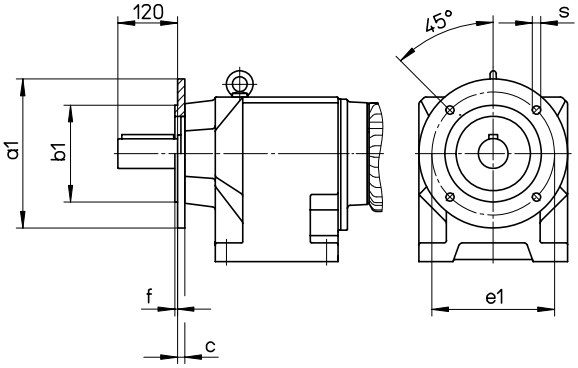
G6.2A, G6.3A Versión con pie



G6.2B, G6.3B Versión con brida B14



G6.2C, G6.3C Versión con brida B5



	k	kB	g	p	hL
G6.3_ DA80	684	755	158	355	128
G6.3_ DA90S	684	755	158	355	128
G6.3_ DA90L	731	796	176	369	168
G6.3_ DA100L	731	796	176	369	168
G6.2_ DA100LX	730	804	195	376	176
G6.3_ DA100LX	769	843	195	376	176
G6.2_ DA112	730	804	195	376	176
G6.3_ DA112	769	843	195	376	176
G6.2_ DA132	834	933	245	408	225
G6.2_ DA160	958	1078	311	470	256
G6.2_ DA180M	958	1078	311	470	256
G6.2_ DA180L	999	1138	356	511	335
G6.2_ DA200L	999	1138	356	511	335

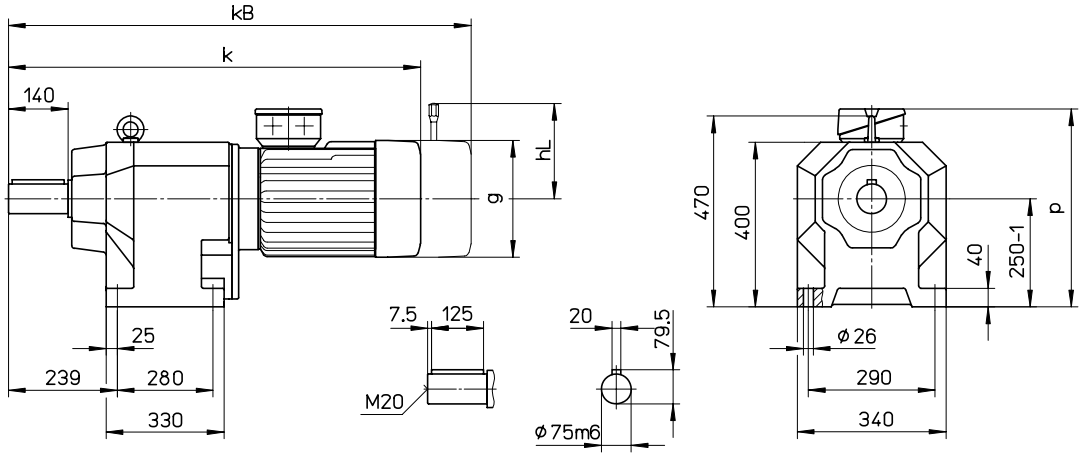
Brida	a1	E1	b1	s	c	f
Ø300	300	265	230 j6	13.5	12	4
Ø400	400	350	300 h6	17.5	15	5

Las cotas kB y hL conciernen a los motorreductores con freno.

Motorreductores de engranajes helicoidales G

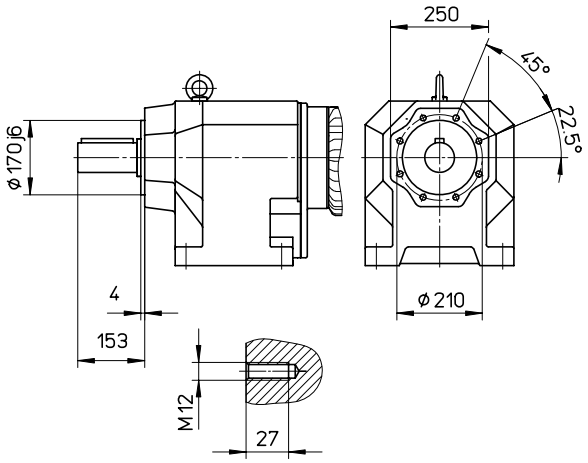
G7.3A

Versión con pie



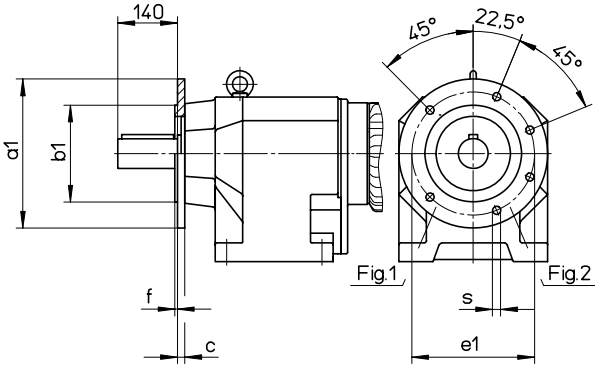
G7.3B

Versión con brida B14



G7.3C

Versión con brida B5



	k	kB	g	p	hL
G7.3_ DA100LX	866	940	195	406	176
G7.3_ DA112	866	940	195	406	176
G7.3_ DA132	970	1069	245	438	225
G7.3_ DA160M	1095	1214	311	500	256
G7.3_ DA180M	1095	1214	311	500	256
G7.3_ DA180L	1136	1275	356	541	335
G7.3_ DA200	1136	1275	356	541	335

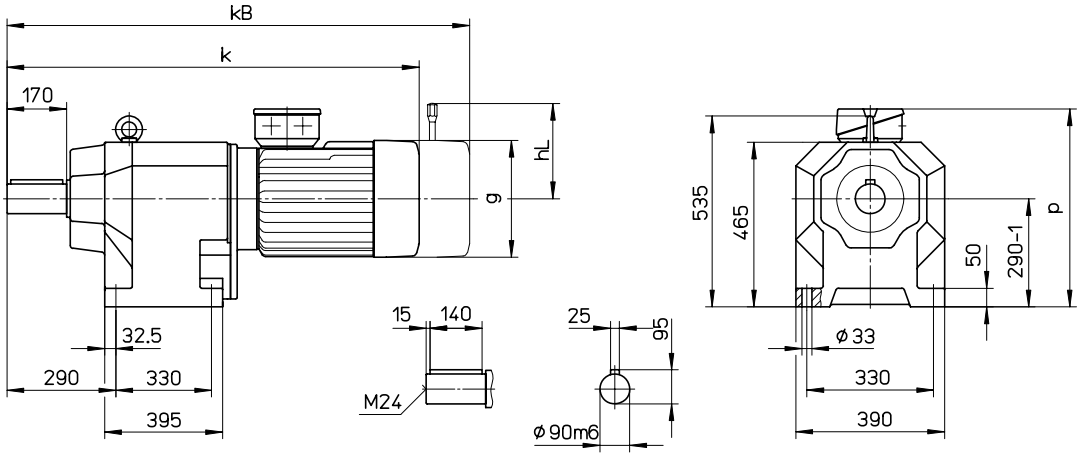
Brida	Fig.	a1	e1	b1	s	c	f
Ø350	1	350	300	250 h6	17.5	16	5
Ø450	2	450	400	350 h6	17.5	16	5

Las cotas kB y hL conciernen a los motorreductores con freno.

Motorreductores de engranajes helicoidales G

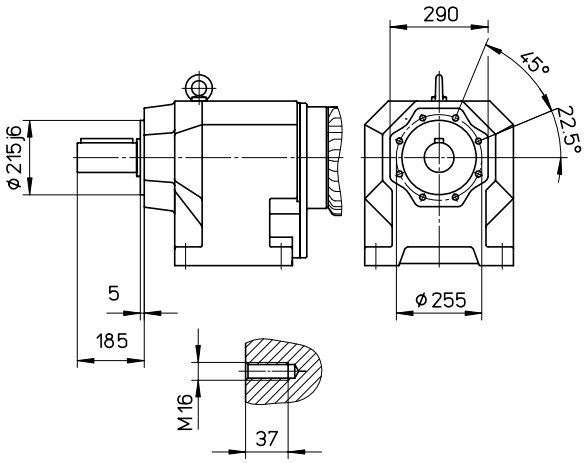
G8.3A

Versión con pie



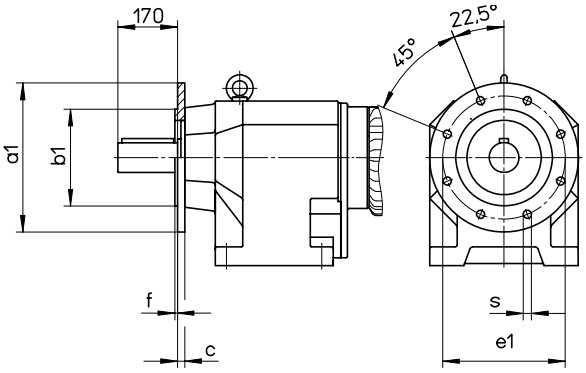
G8.3B

Versión con brida B14



G8.3C

Versión con brida B5

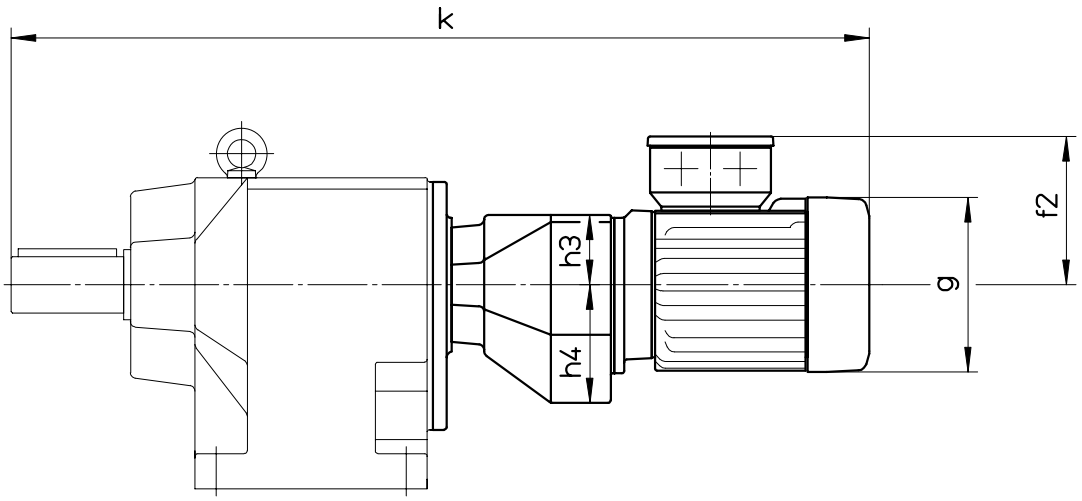


	k	kB	g	p	hL
G8.3_ DA100LX	971	1045	195	446	176
G8.3_ DA112	971	1045	195	446	176
G8.3_ DA132	1075	1174	245	478	225
G8.3_ DA160	1200	1319	311	540	256
G8.3_ DA180M	1200	1319	311	540	256
G8.3_ DA180L	1241	1380	356	581	335
G8.3_ DA200	1241	1380	356	581	335

Las cotas kB y hL conciernen a los motorreductores con freno.

Brida	a1	e1	b1	s	c	f
Ø450	450	400	350 h6	17.5	16	5
Ø550	550	500	450 h6	17.5	18	5

Motorreductores de engranajes helicoidales G para muy baja velocidad



	k	g	f2	h3	h4
G3.2/G1.2A DL63/71	571	126	113	50	84
G4.2/G1.2A DL63/71	624	126	113	50	84
G5.3/G1.2A DL63/71	722	126	113	50	84
G6.3/G1.2A DL63/71	780	126	113	50	84
G6.3/G1.2A DA80	829	158	135		
G7.3/G3.2A DL63/71	949	126	113	65	119
G7.3/G3.2A DA80	998	158	135		
G7.3/G3.2A DA90S	998	158	135		
G7.3/G3.2A DA90L	1045	176	149		
G7.3/G3.2A DA100L	1045	176	149		
G8.3/G3.2A DL63/71	1054	126	113	65	119
G8.3/G3.2A DA80	1103	158	135		
G8.3/G3.2A DA90S	1103	158	135		
G8.3/G3.2A DA90L	1150	176	149		
G8.3/G3.2A DA100L	1150	176	149		
G8.3/G3.2A DA100LX	1188	195	156		
G8.3/G3.2A DA112M	1188	195	156		

i	M [Nm] cG=1	n2 [1/min] | Pmax [kW] n1=2800	n1=1400	n1=930	n1=700	Adaptador motor -M						
G1.2 (ZG0)						**IEC**	**IEC**	**IEC**				
66.35	62	42|0.27	21|0.14	14|0.09	11|0.07	63	71	80	S4B	S4C	S4D	
60.31	63	46|0.31	23|0.15	15|0.10	12|0.08	63	71	80	S4B	S4C	S4D	
58.38	62	48|0.31	24|0.16	16|0.10	12|0.08	63	71	80	S4B	S4C	S4D	
53.06	63	53|0.35	26|0.17	18|0.12	13|0.09	63	71	80	S4B	S4C	S4D	
46.94	62	60|0.39	30|0.19	20|0.13	15|0.10	63	71	80	S4B	S4C	S4D	
42.67	63	66|0.43	33|0.22	22|0.14	16|0.11	63	71	80	S4B	S4C	S4D	
39.12	62	72|0.46	36|0.23	24|0.15	18|0.12	63	71	80	S4B	S4C	S4D	
35.56	63	79|0.52	39|0.26	26|0.17	20|0.13	63	71	80	S4B	S4C	S4D	
30.09	62	93|0.60	47|0.30	31|0.20	23|0.15	63	71	80	S4B	S4C	S4D	
27.35	63	102|0.68	51|0.34	34|0.22	26|0.17	63	71	80	S4B	S4C	S4D	
21.06	62	133|0.86	66|0.43	44|0.29	33|0.22	63	71	80	S4B	S4C	S4D	
19.15	63	146|0.96	73|0.48	49|0.32	37|0.24	63	71	80	S4B	S4C	S4D	
17.28	62	162|1.1	81|0.53	54|0.35	41|0.26	63	71	80	S4B	S4C	S4D	
15.71	63	178|1.2	89|0.59	59|0.39	45|0.29	63	71	80	S4B	S4C	S4D	
13.67	62	205|1.3	102|0.66	68|0.44	51|0.33	63	71	80	S4B	S4C	S4D	
12.42	63	225|1.5	113|0.74	75|0.49	56|0.37	63	71	80	S4B	S4C	S4D	
11.28	62	248|1.5	124|0.81	82|0.54	62|0.40	63	71	80	S4B	S4C	S4D	
10.26	63	273|1.5	137|0.90	91|0.60	68|0.45	63	71	80	S4B	S4C	S4D	
8.59	62	326|1.5	163|1.1	108|0.70	81|0.53	63	71	80	S4B	S4C	S4D	
7.81	63	359|1.5	179|1.2	119|0.79	90|0.59	63	71	80	S4B	S4C	S4D	
7.22	63	388|1.5	194|1.3	129|0.85	97|0.64	63	71	80	S4B	S4C	S4D	
6.73	62	416|1.5	208|1.4	138|0.90	104|0.68	63	71	80	S4B	S4C	S4D	
6.12	63	458|1.5	229|1.5	152|1.0	114|0.75	63	71	80	S4B	S4C	S4D	
5.72	62	490|1.5	245|1.5	163|1.1	122|0.79	63	71	80	S4B	S4C	S4D	
5.13	62	546|1.5	273|1.5	181|1.2	136|0.89	63	71	80	S4B	S4C	S4D	
4.66	63	600|1.5	300|1.5	199|1.3	150|0.99	63	71	80	S4B	S4C	S4D	
4.36	62	642|1.5	321|1.5	213|1.4	161|1.0	63	71	80	S4B	S4C	S4D	
3.97	63	706|1.5	353|1.5	235|1.5	177|1.2	63	71	80	S4B	S4C	S4D	
3.69	62	758|1.5	379|1.5	252|1.5	190|1.2	63	71	80	S4B	S4C	S4D	
3.36	63	834|1.5	417|1.5	277|1.5	209|1.4	63	71	80	S4B	S4C	S4D	
G2.2 (ZG1)						**IEC**	**IEC**	**IEC**	**IEC**				
67.94	115	41|0.50	21|0.25	14|0.16	10|0.12	63	71	80		S4B	S4C	S4D	
61.22	103	46|0.49	23|0.25	15|0.16	11|0.12	63	71	80		S4B	S4C	S4D	
54.83	117	51|0.63	26|0.31	17|0.21	13|0.16	63	71	80		S4B	S4C	S4D	
49.41	122	57|0.72	28|0.36	19|0.24	14|0.18	63	71	80		S4B	S4C	S4D	
45.29	117	62|0.76	31|0.38	21|0.25	15|0.19	63	71	80	90	S4B	S4C	S4D	S4E
40.81	122	69|0.88	34|0.44	23|0.29	17|0.22	63	71	80	90	S4B	S4C	S4D	S4E
35.16	117	80|0.98	40|0.49	26|0.32	20|0.24	63	71	80	90	S4B	S4C	S4D	S4E
31.69	122	88|1.1	44|0.56	29|0.37	22|0.28	63	71	80	90	S4B	S4C	S4D	S4E
28.61	117	98|1.2	49|0.60	33|0.40	24|0.30	63	71	80	90	S4B	S4C	S4D	S4E
25.78	122	109|1.4	54|0.69	36|0.46	27|0.35	63	71	80	90	S4B	S4C	S4D	S4E
20.43	117	137|1.7	69|0.84	46|0.56	34|0.42	63	71	80		S4B	S4C	S4D	
18.41	122	152|1.9	76|0.97	51|0.65	38|0.49	63	71	80		S4B	S4C	S4D	
16.60	117	169|2.1	84|1.0	56|0.69	42|0.52	63	71	80	90	S4B	S4C	S4D	S4E
14.96	122	187|2.4	94|1.2	62|0.79	47|0.60	63	71	80	90	S4B	S4C	S4D	S4E
13.86	117	202|2.5	101|1.2	67|0.82	51|0.62	63	71	80	90	S4B	S4C	S4D	S4E
12.49	122	224|2.9	112|1.4	74|0.95	56|0.72	63	71	80	90	S4B	S4C	S4D	S4E
10.54	117	266|3.0	133|1.6	88|1.1	66|0.81	63	71	80	90	S4B	S4C	S4D	S4E
9.500	122	295|3.0	147|1.9	98|1.3	74|0.94	63	71	80	90	S4B	S4C	S4D	S4E
8.34	117	336|3.0	168|2.1	111|1.4	84|1.0	63	71	80	90	S4B	S4C	S4D	S4E
7.52	122	372|3.0	186|2.4	124|1.6	93|1.2	63	71	80	90	S4B	S4C	S4D	S4E
6.79	117	412|3.0	206|2.5	137|1.7	103|1.3	63	71	80	90	S4B	S4C	S4D	S4E
6.12	122	457|3.0	229|2.9	152|1.9	114|1.5	63	71	80	90	S4B	S4C	S4D	S4E
5.69	117	492|3.0	246|3.0	163|2.0	123|1.5				90				S4E
5.06	117	554|3.0	277|3.0	184|2.3	138|1.7	63	71	80	90	S4B	S4C	S4D	S4E
4.56	122	614|3.0	307|3.0	204|2.6	154|2.0	63	71	80	90	S4B	S4C	S4D	S4E
3.75	117	746|3.0	373|3.0	248|3.0	186|2.3	63	71	80	90	S4B	S4C	S4D	S4E
3.38	122	828|3.0	414|3.0	275|3.0	207|2.6	63	71	80	90	S4B	S4C	S4D	S4E

Reductores de engranajes helicoidales G, ZG

i	M [Nm]	n2 [1/min] | Pmax [kW]				Adaptador motor -M							
	cG=1	n1=2800	n1=1400	n1=930	n1=700								
G3.2 (ZG2)						IEC	IEC	IEC	IEC	IEC			
69.09	240	41|1.0	20|0.51	13|0.34	10|0.25	71	80				S4C	S4D	
62.28	215	45|1.0	22|0.51	15|0.34	11|0.25	71	80				S4C	S4D	
57.58	255	49|1.3	24|0.65	16|0.43	12|0.33	71	80	90			S4C	S4D	S4E
51.90	250	54|1.4	27|0.71	18|0.47	13|0.35	71	80	90			S4C	S4D	S4E
44.85	255	62|1.7	31|0.84	21|0.56	16|0.42	71	80	90	100	112	S4C	S4D	S4E
40.43	255	69|1.9	35|0.93	23|0.62	17|0.46	71	80	90	100	112	S4C	S4D	S4E
36.36	255	77|2.1	39|1.0	26|0.69	19|0.52	71	80	90	100	112	S4C	S4D	S4E
32.78	255	85|2.3	43|1.1	28|0.76	21|0.57	71	80	90	100	112	S4C	S4D	S4E
26.73	255	105|2.8	52|1.4	35|0.93	26|0.70	71	80	90	100	112	S4C	S4D	S4E
24.09	255	116|3.1	58|1.6	39|1.0	29|0.78	71	80	90	100	112	S4C	S4D	S4E
21.56	255	130|3.5	65|1.7	43|1.2	32|0.87	71	80	90			S4C	S4D	S4E
19.43	255	144|3.9	72|1.9	48|1.3	36|0.97	71	80	90			S4C	S4D	S4E
18.18	255	154|4.1	77|2.1	51|1.4	39|1.0	71	80	90	100	112	S4C	S4D	S4E
16.39	255	171|4.6	85|2.3	57|1.5	43|1.1	71	80	90	100	112	S4C	S4D	S4E
13.64	255	205|5.5	103|2.8	68|1.8	51|1.4	71	80	90	100	112	S4C	S4D	S4E
12.29	255	228|6.1	114|3.1	76|2.0	57|1.5	71	80	90	100	112	S4C	S4D	S4E
11.52	255	243|6.5	122|3.3	81|2.2	61|1.6	71	80	90	100	112	S4C	S4D	S4E
10.38	255	270|7.2	135|3.6	90|2.4	67|1.8	71	80	90	100	112	S4C	S4D	S4E
9.02	255	310|8.0	155|4.2	103|2.8	78|2.1			90	100	112			S4E
8.13	255	344|8.0	172|4.6	114|3.1	86|2.3			90	100	112			S4E
7.09	255	395|8.0	197|5.3	131|3.5	99|2.6			90	100	112			S4E
6.39	255	438|8.0	219|5.9	146|3.9	110|2.9			90	100	112			S4E
5.30	255	528|8.0	264|7.1	176|4.7	132|3.5			90	100	112			S4E
4.78	255	586|8.0	293|7.9	195|5.2	147|3.9			90	100	112			S4E
3.95	255	708|8.0	354|8.0	235|6.3	177|4.7			90	100	112			S4E
3.56	255	786|8.0	393|8.0	261|7.0	196|5.3			90	100	112			S4E
G3.3 (ZG2/3)						IEC	IEC	IEC					
222.22	255	13|0.34	6.3|0.17	4.2|0.11	3.2|0.08	63	71	80	S4B	S4C	S4D		
200.31	255	14|0.37	7.0|0.19	4.6|0.12	3.5|0.09	63	71	80	S4B	S4C	S4D		
173.74	255	16|0.43	8.1|0.22	5.4|0.14	4.0|0.11	63	71	80	S4B	S4C	S4D		
156.60	255	18|0.48	8.9|0.24	5.9|0.16	4.5|0.12	63	71	80	S4B	S4C	S4D		
141.41	255	20|0.53	9.9|0.27	6.6|0.18	5.0|0.13	63	71	80	S4B	S4C	S4D		
127.47	255	22|0.59	11|0.29	7.3|0.20	5.5|0.15	63	71	80	S4B	S4C	S4D		
105.05	255	27|0.71	13|0.36	8.9|0.24	6.7|0.18	63	71	80	S4B	S4C	S4D		
94.69	255	30|0.79	15|0.40	9.8|0.26	7.4|0.20	63	71	80	S4B	S4C	S4D		
80.81	255	35|0.93	17|0.46	12|0.31	8.7|0.23	63	71	80	S4B	S4C	S4D		
72.84	255	38|1.0	19|0.52	13|0.34	9.6|0.26	63	71	80	S4B	S4C	S4D		
68.69	255	41|1.1	20|0.55	14|0.36	10|0.27	63	71	80	S4B	S4C	S4D		
61.91	255	45|1.2	23|0.61	15|0.40	11|0.30	63	71	80	S4B	S4C	S4D		

Reductores de engranajes helicoidales G, ZG

i	M [Nm]	n2 [1/min] | Pmax [kW]				Adaptador motor -M							
	cG=1	n1=2800	n1=1400	n1=930	n1=700								
G4.2 (ZG3)						IEC	IEC	IEC	IEC	IEC			
69.600	420	40|1.8	20|0.89	13|0.59	10|0.44	80	90				S4D	S4E	
62.10	375	45|1.8	23|0.89	15|0.59	11|0.44	80	90				S4D	S4E	
54.600	500	51|2.7	26|1.3	17|0.90	13|0.67	80	90	100	112	132	S4D	S4E	S4F
48.72	465	57|2.8	29|1.4	19|0.93	14|0.70	80	90	100	112	132	S4D	S4E	S4F
44.400	500	63|3.3	32|1.7	21|1.1	16|0.83	80	90	100	112	132	S4D	S4E	S4F
39.62	525	71|3.9	35|1.9	23|1.3	18|0.97	80	90	100	112	132	S4D	S4E	S4F
32.940	500	85|4.5	43|2.2	28|1.5	21|1.1	80	90	100	112	132	S4D	S4E	S4F
29.39	525	95|5.2	48|2.6	32|1.7	24|1.3	80	90	100	112	132	S4D	S4E	S4F
28.080	500	100|5.2	50|2.6	33|1.7	25|1.3		90	100	112	132		S4E	S4F
25.05	525	112|6.1	56|3.1	37|2.0	28|1.5		90	100	112	132		S4E	S4F
22.725	500	123|6.5	62|3.2	41|2.2	31|1.6	80	90	100	112	132	S4D	S4E	S4F
20.28	475	138|6.9	69|3.4	46|2.3	35|1.7	80	90	100	112	132	S4D	S4E	S4F
17.100	500	164|8.6	82|4.3	54|2.9	41|2.2	80	90	100	112	132	S4D	S4E	S4F
15.26	525	184|10	92|5.0	61|3.3	46|2.5	80	90	100	112	132	S4D	S4E	S4F
13.275	500	211|11	105|5.5	70|3.7	53|2.8			100	112	132			S4F
11.84	525	236|13	118|6.5	79|4.3	59|3.2			100	112	132			S4F
11.63	500	241|13	120|6.3	80|4.2	60|3.2		90	100	112	132		S4E	S4F
10.38	525	270|15	135|7.4	90|4.9	67|3.7		90	100	112	132		S4E	S4F
8.550	500	327|17	164|8.6	109|5.7	82|4.3			100	112	132			S4F
7.63	525	367|18	184|10	122|6.7	92|5.0			100	112	132			S4F
7.38	500	379|18	190|10.0	126|6.6	95|5.0					132			S4F
6.97	500	402|18	201|11	133|7.0	100|5.3			100	112	132			S4F
6.58	525	425|18	213|12	141|7.7	106|5.8					132			S4F
6.22	525	450|18	225|12	150|8.2	113|6.2			100	112	132			S4F
5.55	500	504|18	252|13	167|8.8	126|6.6					132			S4F
5.250	500	533|18	267|14	177|9.3	133|7.0			100	112	132			S4F
4.96	490	565|18	282|14	188|9.6	141|7.2					132			S4F
4.68	525	598|18	299|16	199|11	149|8.2			100	112	132			S4F
4.19	470	669|18	335|17	222|11	167|8.3					132			S4F
3.95	500	709|18	354|18	235|12	177|9.3			100	112	132			S4F
3.73	420	750|18	375|17	249|11	187|8.3					132			S4F
3.53	480	794|18	397|18	264|13	199|10.0			100	112	132			S4F
G4.3 (ZG3/3)						IEC	IEC	IEC	IEC				
668.850	570	4.2|0.25	2.1|0.12	1.4|0.08	1.0|0.06	63	71	80		S4B	S4C	S4D	
596.79	505	4.7|0.25	2.3|0.12	1.6|0.08	1.2|0.06	63	71	80		S4B	S4C	S4D	
588.47	570	4.8|0.28	2.4|0.14	1.6|0.09	1.2|0.07	63	71	80		S4B	S4C	S4D	
525.06	505	5.3|0.28	2.7|0.14	1.8|0.09	1.3|0.07	63	71	80		S4B	S4C	S4D	
473.200	570	5.9|0.35	3.0|0.18	2.0|0.12	1.5|0.09	63	71	80		S4B	S4C	S4D	
422.22	505	6.6|0.35	3.3|0.18	2.2|0.12	1.7|0.09	63	71	80		S4B	S4C	S4D	
394.33	570	7.1|0.42	3.6|0.21	2.4|0.14	1.8|0.11	63	71	80	90	S4B	S4C	S4D	S4E
351.85	505	8.0|0.42	4.0|0.21	2.6|0.14	2.0|0.11	63	71	80	90	S4B	S4C	S4D	S4E
303.33	570	9.2|0.55	4.6|0.27	3.1|0.18	2.3|0.14	63	71	80	90	S4B	S4C	S4D	S4E
270.65	505	10|0.55	5.2|0.27	3.4|0.18	2.6|0.14	63	71	80	90	S4B	S4C	S4D	S4E
212.33	570	13|0.78	6.6|0.39	4.4|0.26	3.3|0.20	63	71	80		S4B	S4C	S4D	
189.46	505	15|0.78	7.4|0.39	4.9|0.26	3.7|0.20	63	71	80		S4B	S4C	S4D	
174.200	570	16|0.96	8.0|0.48	5.3|0.32	4.0|0.24	63	71	80		S4B	S4C	S4D	
155.43	505	18|0.96	9.0|0.48	6.0|0.32	4.5|0.24	63	71	80		S4B	S4C	S4D	
137.800	570	20|1.2	10|0.60	6.7|0.40	5.1|0.30	63	71	80	90	S4B	S4C	S4D	S4E
122.95	505	23|1.2	11|0.60	7.6|0.40	5.7|0.30	63	71	80	90	S4B	S4C	S4D	S4E
113.750	570	25|1.5	12|0.73	8.2|0.49	6.2|0.37	63	71	80	90	S4B	S4C	S4D	S4E
101.49	505	28|1.5	14|0.73	9.2|0.49	6.9|0.37	63	71	80	90	S4B	S4C	S4D	S4E
86.61	570	32|1.9	16|0.96	11|0.64	8.1|0.48	63	71	80	90	S4B	S4C	S4D	S4E
77.28	505	36|1.9	18|0.96	12|0.64	9.1|0.48	63	71	80	90	S4B	S4C	S4D	S4E
67.84	570	41|2.5	21|1.2	14|0.82	10|0.61	63	71	80	90	S4B	S4C	S4D	S4E
60.53	505	46|2.5	23|1.2	15|0.82	12|0.61	63	71	80	90	S4B	S4C	S4D	S4E
51.73	570	54|3.0	27|1.6	18|1.1	14|0.80	63	71	80		S4B	S4C	S4D	
46.15	505	61|3.0	30|1.6	20|1.1	15|0.81	63	71	80		S4B	S4C	S4D	
37.23	570	75|3.0	38|2.2	25|1.5	19|1.1	63	71	80		S4B	S4C	S4D	
33.22	505	84|3.0	42|2.2	28|1.5	21|1.1	63	71	80		S4B	S4C	S4D	

Reductores de engranajes helicoidales G, ZG

i	M [Nm] cG=1	n2 [1/min] | Pmax [kW] n1=2800	n1=1400	n1=930	n1=700	Adaptador motor -M							
G5.2 (ZG4)						**IEC**	**IEC**	**IEC**	**IEC**				
69.600	890	40|3.8	20|1.9	13|1.2	10|0.94	90	100	112			S4E		
62.10	795	45|3.8	23|1.9	15|1.2	11|0.94	90	100	112			S4E		
57.000	1000	49|5.2	25|2.6	16|1.7	12|1.3	90	100	112			S4E		
50.86	900	55|5.2	28|2.6	18|1.7	14|1.3	90	100	112			S4E		
42.660	1030	66|7.1	33|3.5	22|2.3	16|1.8	90	100	112	132	160	S4E	S4F	
38.06	1080	74|8.3	37|4.1	24|2.8	18|2.1	90	100	112	132	160	S4E	S4F	
36.180	1030	77|8.3	39|4.2	26|2.8	19|2.1	90	100	112	132	160	S4E	S4F	
32.28	1080	87|9.8	43|4.9	29|3.2	22|2.4	90	100	112	132	160	S4E	S4F	
29.250	1030	96|10	48|5.2	32|3.4	24|2.6	90	100	112	132	160	S4E	S4F	
26.10	1080	107|12	54|6.0	36|4.0	27|3.0	90	100	112	132	160	S4E	S4F	
22.725	1000	123|13	62|6.5	41|4.3	31|3.2	90	100	112	132	160	S4E	S4F	
20.28	895	138|13	69|6.5	46|4.3	35|3.2	90	100	112	132	160	S4E	S4F	
18.000	1030	156|17	78|8.4	52|5.6	39|4.2	90	100	112	132	160	S4E	S4F	
16.06	1080	174|20	87|9.8	58|6.5	44|4.9	90	100	112	132	160	S4E	S4F	
14.040	1030	199|21	100|11	66|7.1	50|5.4	90	100	112	132	160	S4E	S4F	
12.53	1080	224|25	112|13	74|8.4	56|6.3	90	100	112	132	160	S4E	S4F	
11.925	1030	235|25	117|13	78|8.4	59|6.3	90	100	112	132	160	S4E	S4F	
10.64	1080	263|30	132|15	87|9.8	66|7.4	90	100	112	132	160	S4E	S4F	
8.640	1030	324|35	162|17	108|12	81|8.7	90	100	112	132	160	S4E	S4F	
7.71	1080	363|37	182|20	121|14	91|10	90	100	112	132	160	S4E	S4F	
6.99	1030	401|37	200|22	133|14	100|11				132	160		S4F	
6.24	1080	449|37	225|25	149|17	112|13				132	160		S4F	
5.68	1030	493|37	246|27	164|18	123|13				132	160		S4F	
5.07	1080	552|37	276|31	183|21	138|16				132	160		S4F	
4.58	1070	612|37	306|34	203|23	153|17				132	160		S4F	
4.17	1020	671|37	336|36	223|24	168|18				132	160		S4F	
3.72	1030	752|37	376|37	250|27	188|20				132	160		S4F	
G5.3 (ZG4/3)						**IEC**	**IEC**	**IEC**	**IEC**	**IEC**			
722.000	1190	3.9|0.48	1.9|0.24	1.3|0.16	0.97|0.12	71	80				S4C	S4D	
644.21	1100	4.3|0.50	2.2|0.25	1.4|0.17	1.1|0.12	71	80				S4C	S4D	
582.67	1190	4.8|0.60	2.4|0.30	1.6|0.20	1.2|0.15	71	80				S4C	S4D	
519.89	1160	5.4|0.65	2.7|0.33	1.8|0.22	1.3|0.16	71	80				S4C	S4D	
481.33	1190	5.8|0.73	2.9|0.36	1.9|0.24	1.5|0.18	71	80	90			S4C	S4D	S4E
429.47	1160	6.5|0.79	3.3|0.40	2.2|0.26	1.6|0.20	71	80	90			S4C	S4D	S4E
373.67	1190	7.5|0.93	3.7|0.47	2.5|0.31	1.9|0.23	71	80	90	100	112	S4C	S4D	S4E
333.41	1160	8.4|1.0	4.2|0.51	2.8|0.34	2.1|0.25	71	80	90	100	112	S4C	S4D	S4E
304.000	1190	9.2|1.1	4.6|0.57	3.1|0.38	2.3|0.29	71	80	90	100	112	S4C	S4D	S4E
271.25	1160	10|1.3	5.2|0.63	3.4|0.42	2.6|0.31	71	80	90	100	112	S4C	S4D	S4E
217.14	1190	13|1.6	6.4|0.80	4.3|0.53	3.2|0.40	71	80				S4C	S4D	
193.75	1160	14|1.8	7.2|0.88	4.8|0.58	3.6|0.44	71	80				S4C	S4D	
176.43	1190	16|2.0	7.9|0.99	5.3|0.66	4.0|0.49	71	80	90			S4C	S4D	S4E
157.42	1160	18|2.2	8.9|1.1	5.9|0.72	4.4|0.54	71	80	90			S4C	S4D	S4E
147.250	1190	19|2.4	9.5|1.2	6.3|0.79	4.8|0.59	71	80	90	100	112	S4C	S4D	S4E
131.38	1160	21|2.6	11|1.3	7.1|0.86	5.3|0.65	71	80	90	100	112	S4C	S4D	S4E
112.03	1190	25|3.1	12|1.6	8.3|1.0	6.2|0.78	71	80	90			S4C	S4D	S4E
99.96	1160	28|3.4	14|1.7	9.3|1.1	7.0|0.85	71	80	90			S4C	S4D	S4E
88.67	1190	32|3.9	16|2.0	10|1.3	7.9|0.98	71	80	90	100	112	S4C	S4D	S4E
81.43	1190	34|4.3	17|2.1	11|1.4	8.6|1.1			90					S4E
79.11	1160	35|4.3	18|2.1	12|1.4	8.8|1.1	71	80	90	100	112	S4C	S4D	S4E
72.200	1190	39|4.8	19|2.4	13|1.6	9.7|1.2	71	80	90	100	112	S4C	S4D	S4E
64.42	1160	43|5.3	22|2.6	14|1.8	11|1.3	71	80	90	100	112	S4C	S4D	S4E
60.45	1190	46|5.8	23|2.9	15|1.9	12|1.4			90					S4E
53.74	1190	52|6.5	26|3.2	17|2.2	13|1.6			90					S4E
47.95	1160	58|7.1	29|3.5	19|2.4	15|1.8			90					S4E
39.900	1190	70|8.0	35|4.4	23|2.9	18|2.2			90					S4E
35.60	1160	79|8.0	39|4.8	26|3.2	20|2.4			90					S4E

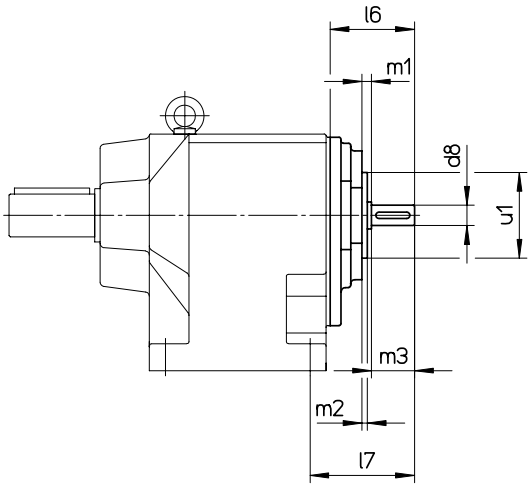
Reductores de engranajes helicoidales G, ZG

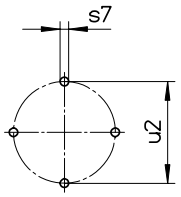
i	M [Nm]	n2 [1/min] | Pmax [kW]				Adaptador motor -M							
	cG=1	n1=2800	n1=1400	n1=930	n1=700								
G6.2 (ZG5)						IEC	IEC	IEC	IEC	IEC			
72.11	1750	39|7.1	19|3.6	13|2.4	9.7|1.8	100	112						
64.36	1530	44|7.0	22|3.5	14|2.3	11|1.7	100	112						
53.900	1930	52|10	26|5.2	17|3.5	13|2.6	100	112	132	160		S4F		
48.11	1720	58|11	29|5.3	19|3.5	15|2.6	100	112	132	160		S4F		
46.200	1920	61|12	30|6.1	20|4.1	15|3.1	100	112	132	160		S4F		
41.24	2020	68|14	34|7.2	23|4.8	17|3.6	100	112	132	160		S4F		
37.58	1920	75|15	37|7.5	25|5.0	19|3.8	100	112	132	160		S4F		
33.55	2020	83|18	42|8.8	28|5.9	21|4.4	100	112	132	160		S4F		
28.97	1920	97|19	48|9.7	32|6.5	24|4.9	100	112	132	160		S4F		
25.85	2020	108|23	54|11	36|7.6	27|5.7	100	112	132	160		S4F		
21.750	1920	129|26	64|13	43|8.6	32|6.5	100	112	132	160		S4F		
19.41	2020	144|31	72|15	48|10	36|7.6	100	112	132	160		S4F		
18.260	1920	153|31	77|15	51|10	38|7.7	100	112	132	160		S4F		
16.30	2020	172|36	86|18	57|12	43|9.1	100	112	132	160		S4F		
14.40	1920	194|39	97|20	65|13	49|9.8			132	160	180	S4F		
12.86	2020	218|46	109|23	72|15	54|12			132	160	180	S4F		
11.73	1920	239|48	119|24	79|16	60|12	100	112	132	160	180	S4F		
10.47	2020	267|57	134|28	89|19	67|14	100	112	132	160	180	S4F		
8.91	1920	314|60	157|32	104|21	79|16			132	160	180	S4F		
7.96	2020	352|60	176|37	117|25	88|19			132	160	180	S4F		
7.17	1920	391|60	195|39	130|26	98|20					180			
6.40	2020	438|60	219|46	145|31	109|23					180			
5.80	1920	483|60	241|49	160|32	121|24					180			
5.17	2020	541|60	271|57	180|38	135|29					180			
4.66	2020	601|60	301|60	200|42	150|32					180			
4.22	1920	663|60	332|60	220|44	166|33					180			
3.77	1960	743|60	372|60	247|51	186|38					180			
G6.3 (ZG5/3)						IEC	IEC	IEC	IEC	IEC			
682.73	2260	4.1|0.97	2.1|0.48	1.4|0.32	1.0|0.24	80					S4D		
609.38	2110	4.6|1.0	2.3|0.51	1.5|0.34	1.1|0.25	80					S4D		
568.94	2260	4.9|1.2	2.5|0.58	1.6|0.39	1.2|0.29	80	90				S4D	S4E	
507.82	2220	5.5|1.3	2.8|0.64	1.8|0.43	1.4|0.32	80	90				S4D	S4E	
443.18	2260	6.3|1.5	3.2|0.75	2.1|0.50	1.6|0.37	80	90	100	112	132	S4D	S4E	S4F
395.56	2220	7.1|1.6	3.5|0.82	2.4|0.55	1.8|0.41	80	90	100	112	132	S4D	S4E	S4F
359.33	2260	7.8|1.8	3.9|0.92	2.6|0.61	1.9|0.46	80	90	100	112	132	S4D	S4E	S4F
320.73	2220	8.7|2.0	4.4|1.0	2.9|0.67	2.2|0.51	80	90	100	112	132	S4D	S4E	S4F
264.110	2260	11|2.5	5.3|1.3	3.5|0.83	2.7|0.63	80	90	100	112	132	S4D	S4E	S4F
235.73	2220	12|2.8	5.9|1.4	3.9|0.92	3.0|0.69	80	90	100	112	132	S4D	S4E	S4F
213.03	2260	13|3.1	6.6|1.6	4.4|1.0	3.3|0.78	80	90				S4D	S4E	
190.15	2220	15|3.4	7.4|1.7	4.9|1.1	3.7|0.86	80	90				S4D	S4E	
179.67	2260	16|3.7	7.8|1.8	5.2|1.2	3.9|0.92	80	90	100	112	132	S4D	S4E	S4F
160.36	2220	17|4.1	8.7|2.0	5.8|1.3	4.4|1.0	80	90	100	112	132	S4D	S4E	S4F
134.750	2260	21|4.9	10|2.5	6.9|1.6	5.2|1.2	80	90	100	112	132	S4D	S4E	S4F
120.27	2220	23|5.4	12|2.7	7.7|1.8	5.8|1.4	80	90	100	112	132	S4D	S4E	S4F
113.79	2260	25|5.8	12|2.9	8.2|1.9	6.2|1.5	80	90	100	112	132	S4D	S4E	S4F
101.56	2220	28|6.4	14|3.2	9.2|2.1	6.9|1.6	80	90	100	112	132	S4D	S4E	S4F
89.14	2260	31|7.4	16|3.7	10|2.5	7.9|1.9		90	100	112	132		S4E	S4F
79.57	2220	35|8.2	18|4.1	12|2.7	8.8|2.0		90	100	112	132		S4E	S4F
70.070	2260	40|9.4	20|4.7	13|3.1	10.0|2.4		90	100	112	132		S4E	S4F
62.54	2210	45|10	22|5.2	15|3.4	11|2.6		90	100	112	132		S4E	S4F
52.360	2250	53|13	27|6.3	18|4.2	13|3.1		90	100	112	132		S4E	S4F
46.73	2210	60|14	30|6.9	20|4.6	15|3.5		90	100	112	132		S4E	S4F
39.08	2260	72|17	36|8.5	24|5.6	18|4.2		90	100	112	132		S4E	S4F
34.88	2220	80|18	40|9.3	27|6.2	20|4.7		90	100	112	132		S4E	S4F

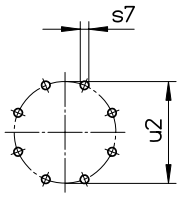
Reductores de engranajes helicoidales G

i	M [Nm]	n2 [1/min] | Pmax [kW]				Adaptador motor -M							
	cG=1	n1=2800	n1=1400	n1=930	n1=700								
G7.3						IEC	IEC	IEC	IEC	IEC	IEC	IEC	
316.36	4050	8.9|3.8	4.4|1.9	2.9|1.2	2.2|0.94	100	112						
282.28	3620	9.9|3.8	5.0|1.9	3.3|1.2	2.5|0.94	100	112						
259.09	4560	11|5.2	5.4|2.6	3.6|1.7	2.7|1.3	100	112						
231.18	4070	12|5.2	6.1|2.6	4.0|1.7	3.0|1.3	100	112						
193.91	4660	14|7.1	7.2|3.5	4.8|2.3	3.6|1.8	100	112	132	160				S4F
173.02	4730	16|8.0	8.1|4.0	5.4|2.7	4.0|2.0	100	112	132	160				S4F
164.45	4660	17|8.3	8.5|4.2	5.7|2.8	4.3|2.1	100	112	132	160				S4F
146.74	4730	19|9.5	9.5|4.7	6.3|3.1	4.8|2.4	100	112	132	160				S4F
132.95	4660	21|10	11|5.1	7.0|3.4	5.3|2.6	100	112	132	160				S4F
118.63	4730	24|12	12|5.8	7.8|3.9	5.9|2.9	100	112	132	160				S4F
103.30	4660	27|13	14|6.6	9.0|4.4	6.8|3.3	100	112	132	160				S4F
92.17	4730	30|15	15|7.5	10|5.0	7.6|3.8	100	112	132	160				S4F
81.82	4660	34|17	17|8.4	11|5.6	8.6|4.2	100	112	132	160				S4F
73.00	4730	38|19	19|9.5	13|6.3	9.6|4.8	100	112	132	160				S4F
63.82	4660	44|21	22|11	15|7.1	11|5.4	100	112	132	160				S4F
56.94	4730	49|24	25|12	16|8.1	12|6.1	100	112	132	160				S4F
54.20	4660	52|25	26|13	17|8.4	13|6.3	100	112	132	160	180	200	225	S4F
48.36	4730	58|29	29|14	19|9.5	14|7.2	100	112	132	160	180	200	225	S4F
39.27	4660	71|35	36|17	24|12	18|8.7	100	112	132	160	180	200	225	S4F
35.04	4730	80|37	40|20	27|13	20|9.9	100	112	132	160	180	200	225	S4F
31.76	4660	88|37	44|22	29|14	22|11			132	160	180	200	225	S4F
28.34	4730	99|37	49|24	33|16	25|12			132	160	180	200	225	S4F
25.84	4660	108|37	54|26	36|18	27|13			132	160	180	200	225	S4F
23.05	4730	121|37	61|30	40|20	30|15			132	160	180	200	225	S4F
20.81	4730	135|37	67|33	45|22	34|17			132	160				S4F
18.97	4660	148|37	74|36	49|24	37|18			132	160				S4F
17.61	4460	159|37	80|37	53|25	40|19	100	112	132	160	180	200	225	S4F
16.92	4690	165|37	83|37	55|27	41|20			132	160				S4F
14.24	3990	197|37	98|37	65|27	49|21			132	160	180	200	225	S4F
11.58	3510	242|37	121|37	80|30	60|22			132	160	180	200	225	S4F
G8.3						IEC	IEC	IEC	IEC	IEC	IEC	IEC	
327.78	7970	8.5|7.1	4.3|3.6	2.8|2.4	2.1|1.8	100	112						
292.56	7110	9.6|7.1	4.8|3.6	3.2|2.4	2.4|1.8	100	112						
245.000	8740	11|10	5.7|5.2	3.8|3.5	2.9|2.6	100	112	132	160				S4F
218.68	7900	13|11	6.4|5.3	4.3|3.5	3.2|2.6	100	112	132	160				S4F
210.000	8740	13|12	6.7|6.1	4.4|4.1	3.3|3.0	100	112	132	160				S4F
187.44	9180	15|14	7.5|7.2	5.0|4.8	3.7|3.6	100	112	132	160				S4F
170.83	8740	16|15	8.2|7.5	5.4|5.0	4.1|3.7	100	112	132	160				S4F
152.48	9180	18|18	9.2|8.8	6.1|5.9	4.6|4.4	100	112	132	160				S4F
131.67	8740	21|19	11|9.7	7.1|6.5	5.3|4.9	100	112	132	160				S4F
117.52	9180	24|23	12|11	7.9|7.6	6.0|5.7	100	112	132	160				S4F
98.86	8740	28|26	14|13	9.4|8.6	7.1|6.5	100	112	132	160				S4F
88.24	9180	32|31	16|15	11|10	7.9|7.6	100	112	132	160				S4F
83.000	8740	34|31	17|15	11|10	8.4|7.7	100	112	132	160				S4F
74.08	9180	38|36	19|18	13|12	9.4|9.1	100	112	132	160				S4F
65.48	8740	43|39	21|20	14|13	11|9.8			132	160	180	200	225	S4F
58.44	9180	48|46	24|23	16|15	12|12			132	160	180	200	225	S4F
53.33	8740	53|48	26|24	17|16	13|12	100	112	132	160	180	200	225	S4F
47.60	9180	59|57	29|28	20|19	15|14	100	112	132	160	180	200	225	S4F
40.52	8740	69|60	35|32	23|21	17|16			132	160	180	200	225	S4F
36.16	9180	77|60	39|37	26|25	19|19			132	160	180	200	225	S4F
32.58	8740	86|60	43|39	29|26	21|20					180	200	225	
29.08	9180	96|60	48|46	32|31	24|23					180	200	225	
26.35	8740	106|60	53|49	35|32	27|24					180	200	225	
23.52	9180	119|60	60|57	40|38	30|29					180	200	225	
21.17	9180	132|60	66|60	44|42	33|32					180	200	225	
19.19	8740	146|60	73|60	48|44	36|33					180	200	225	
17.12	8920	164|60	82|60	54|51	41|38					180	200	225	

Reductores de engranajes helicoidales G



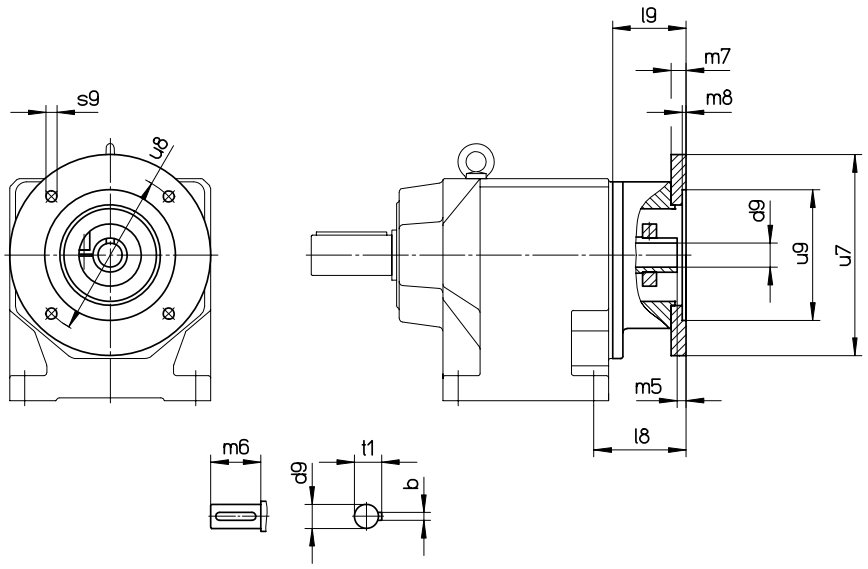




G5.2-W
G6.2-W
G7.3-W
G8.3-W

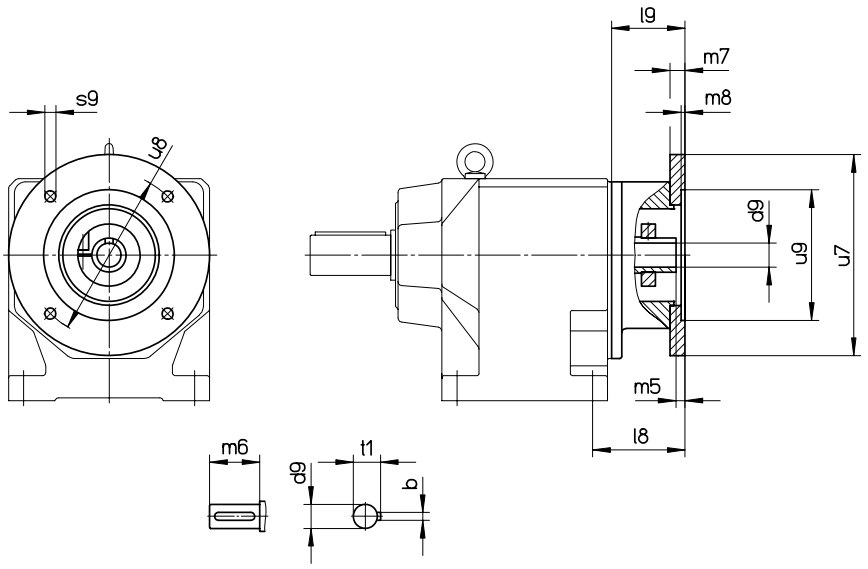
Reductor	d8	m3	m1	m2	u1	u2	s7	l6	l7
G1.2-W	14	40	8	5	54	67	M6	77.5	90
G2.2-W	14	40	8	5	54	67	M6	74	86.5
G3.2-W	19	40	9	5	80	95	M8	84.5	100
G3.3-W	14	40	8	5	54	67	M6	94.5	110
G4.2-W	24	50	9	5	80	95	M8	88.5	107.5
G4.3-W	14	40	8	5	54	67	M6	89.5	108.5
G5.2-W	28	60	11	6	125	150	M10	119.5	141
G5.3-W	19	40	9	5	80	95	M8	104	125.5
G6.2-W	38	80	11	6	125	150	M10	131.5	157.5
G6.3-W	24	50	9	5	80	95	M8	114.5	137.5

Reductores de engranajes helicoidales G con adaptador para motores IEC



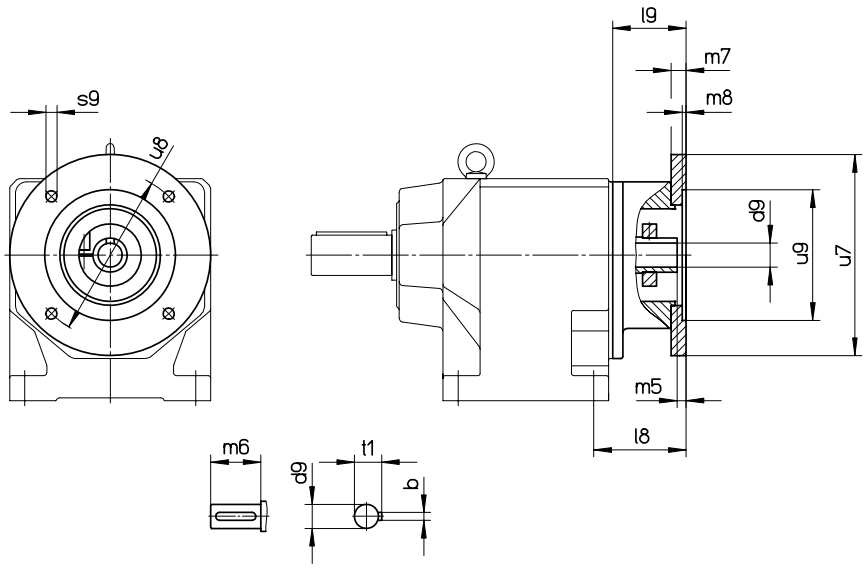
Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m7	m8	l8	l9
G1.2	**-M IEC63B14G**	120	100	80	7	11	23	4	12.5	4.5	12	4	59	46.5
	-M IEC63B5	140	115	95	9							4		
	-M IEC71B14G	140	115	95	9	14	30	5	16	5	12	4	63	50.5
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14K	120	100	80	7	19	40	6	21.5	7	12	4	72	59.5
	-M IEC80B14G	160	130	110	9							4.5		
	-M IEC80B5	200	165	130	11							4.5		
G2.2	**-M IEC63B14G**	120	100	80	7	11	23	4	12.5	4.5	12	4	55.5	43
	-M IEC63B5	140	115	95	9							4		
	-M IEC71B14G	140	115	95	9	14	30	5	16	5	12	4	59.5	47
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14K	120	100	80	7	19	40	6	21.5	7	12	4	68.5	56
	-M IEC80B14G	160	130	110	9							4.5		
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14K	140	115	95	9	24	40	8	27	9	12	4	81	68.5
	-M IEC90B14G	160	130	110	9							4.5		
	-M IEC90B5	200	165	130	11							4.5		
G3.2	**-M IEC71B14G**	140	115	95	9	14	30	5	16	5	15	4	74	58.5
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14G	160	130	110	9	19	40	6	21.5	7	15	4.5	84	68.5
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14K	140	115	95	9	24	50	8	27	9	15	4	95	79.5
	-M IEC90B14G	160	130	110	9							4.5		
	-M IEC90B5	200	165	130	11							4.5		
	-M IEC100B14K	160	130	110	9	28	60	8	31	9	15	4.5	103	87.5
	-M IEC100B14G	200	165	130	11							4.5		
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14K	160	130	110	9	28	60	8	31	9	15	4.5	103	87.5
	-M IEC112B14G	200	165	130	11							4.5		
	-M IEC112B5	250	215	180	14							5		

Reductores de engranajes helicoidales G con adaptador para motores IEC



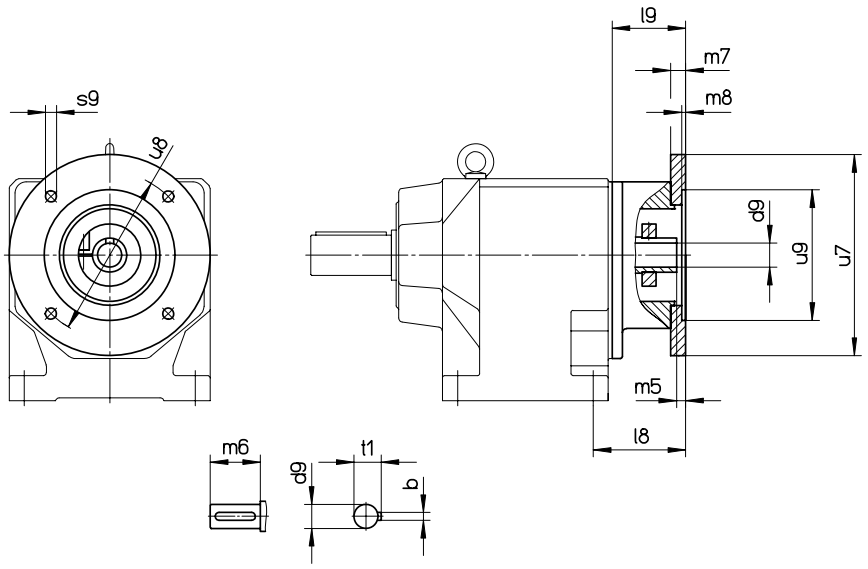
Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m7	m8	l8	l9
G3.3	**-M IEC63B14G**	120	100	80	7	11	23	4	12.5	4.5	12	4	79	46.5
	-M IEC63B5	140	115	95	9							4		
	-M IEC71B14G	140	115	95	9	14	30	5	16	5	12	4	83	50.5
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14K	120	100	80	7	19	40	6	21.5	7	12	4	92	59.5
	-M IEC80B14G	160	130	110	9							4.5		
	-M IEC80B5	200	165	130	11							4.5		
G4.2	**-M IEC80B14G**	160	130	110	9	19	40	6	21.5	7	15	4.5	82	63
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14G	160	130	110	9	24	50	8	27	9	15	4.5	93	74
	-M IEC90B5	200	165	130	11							4.5		
	-M IEC100B14K	160	130	110	9	28	60	8	31	9	15	4.5	101	82
	-M IEC100B14G	200	165	130	11							4.5		
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14K	160	130	110	9	28	60	8	31	9	15	4.5	101	82
	-M IEC112B14G	200	165	130	11							4.5		
	-M IEC112B5	250	215	180	14							5		
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	15	5	125	106
G4.3	**-M IEC63B14G**	120	100	80	7	11	23	4	12.5	4.5	12	4	77.5	43
	-M IEC63B5	140	115	95	9							4		
	-M IEC71B14G	140	115	95	9	14	30	5	16	5	12	4	81.5	47
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14K	120	100	80	7	19	40	6	21.5	7	12	4	90.5	56
	-M IEC80B14G	160	130	110	9							4.5		
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14K	140	115	95	9	24	40	8	27	9	12	4	103	68.5
	-M IEC90B14G	160	130	110	9							4.5		
	-M IEC90B5	200	165	130	11							4.5		

Reductores de engranajes helicoidales G con adaptador para motores IEC



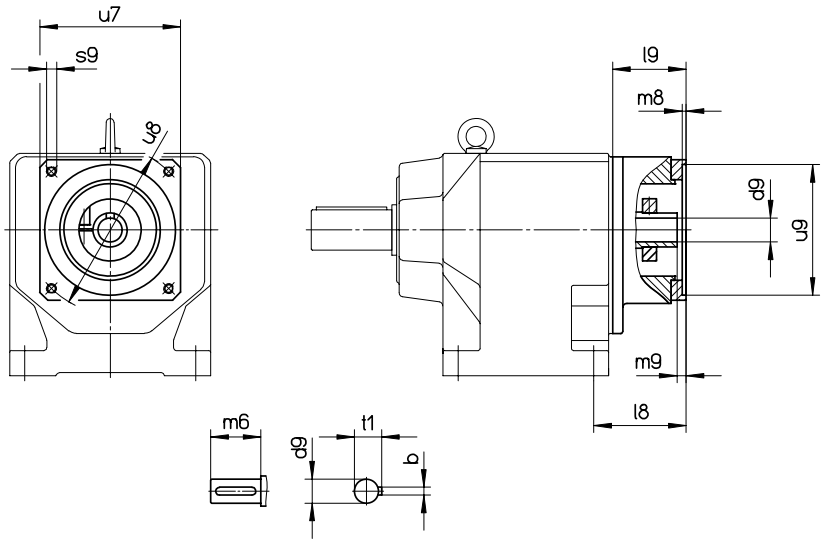
Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m7	m8	l8	l9
G5.2	**-M IEC90B5**	200	165	130	11	24	50	8	27	9	18	4.5	99	77.5
	-M IEC100B14G	200	165	130	11	28	60	8	31	9	18	4.5	109	87.5
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14G	200	165	130	11	28	60	8	31	9	18	4.5	109	87.5
	-M IEC112B5	250	215	180	14							5		
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	18	5	130	108.5
	-M IEC160B5	350	300	250	18	42	110	12	45	14	18	6	160	138.5
G5.3	**-M IEC71B14G**	140	115	95	9	14	30	5	16	5	15	4	99.5	58.5
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14G	160	130	110	9	19	40	6	21.5	7	15	4.5	109.5	68.5
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14K	140	115	95	9	24	50	8	27	9	15	4	120.5	79.5
	-M IEC90B14G	160	130	110	9							4.5		
	-M IEC90B5	200	165	130	11							4.5		
	-M IEC100B14K	160	130	110	9	28	60	8	31	9	15	4.5	128.5	87.5
	-M IEC100B14G	200	165	130	11							4.5		
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14K	160	130	110	9	28	60	8	31	9	15	4.5	128.5	87.5
	-M IEC112B14G	200	165	130	11							4.5		
	-M IEC112B5	250	215	180	14							5		

Reductores de engranajes helicoidales G con adaptador para motores IEC



Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m7	m8	l8	l9
G6.2	**-M IEC100B5**	250	215	180	14	28	60	8	31	9	20	5	106	80
	-M IEC112B5	250	215	180	14	28	60	8	31	9	20	5	106	80
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	20	5	128	102
	-M IEC160B5	350	300	250	18	42	110	12	45	14	20	6	158	132
	-M IEC180B5	350	300	250	18	48	110	14	51.5	17	20	6	158	132
G6.3	**-M IEC80B14G**	160	130	110	9	19	40	6	21.5	7	15	4.5	112	63
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14G	160	130	110	9	24	50	8	27	9	15	4.5	123	74
	-M IEC90B5	200	165	130	11							4.5		
	-M IEC100B14K	160	130	110	9	28	60	8	31	9	15	4.5	131	82
	-M IEC100B14G	200	165	130	11							4.5		
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14K	160	130	110	9	28	60	8	31	9	15	4.5	131	82
	-M IEC112B14G	200	165	130	11							4.5		
	-M IEC112B5	250	215	180	14							5		
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	15	5	155	106
G7.3	**-M IEC100B5**	250	215	180	14	28	60	8	31	9	25	5	146	102
	-M IEC112B5	250	215	180	14	28	60	8	31	9	25	5	146	102
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	25	5	167	123
	-M IEC160B5	350	300	250	18	42	110	12	45	14	25	6	198	154
	-M IEC180B5	350	300	250	18	48	110	14	51.5	17	25	6	198	154
	-M IEC200B5	400	350	300	18	55	110	16	59	13	25	6	198	154
	-M IEC225B5	450	400	350	18	60	140	18	64	16.5	25	6	229	185
G8.3	**-M IEC100B5**	250	215	180	14	28	60	8	31	9	25	5	150	102
	-M IEC112B5	250	215	180	14	28	60	8	31	9	25	5	150	102
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	25	5	171	123
	-M IEC160B5	350	300	250	18	42	110	12	45	14	25	6	202	154
	-M IEC180B5	350	300	250	18	48	110	14	51.5	17	25	6	202	154
	-M IEC200B5	400	350	300	18	55	110	16	59	13	25	6	202	154
	-M IEC225B5	450	400	350	18	60	140	18	64	16.5	25	6	233	185

Reductores de engranajes helicoidales G con adaptador para servomotores



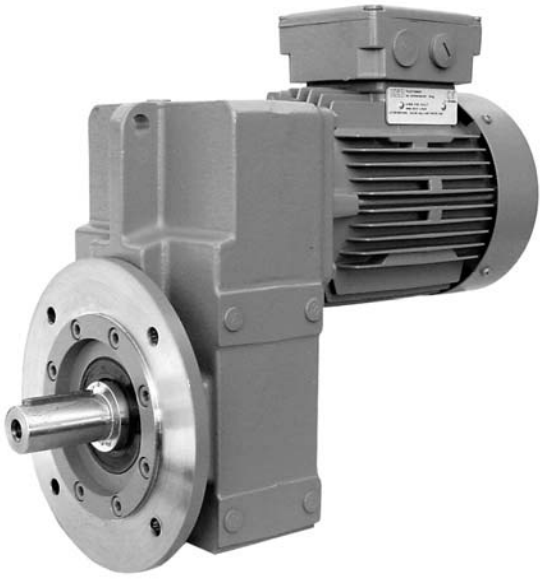
Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m8	l8	l9
G1.2	**-M S4B**	70	75	60	M5	11	23	4	12.2	4.5	3.5	59	46.5
	-M S4C	92	100	80	M6	14	30	5	16	5	4	63	50.5
	-M S4D	110	115	95	M8	19	40	6	21.5	7	4	72	59.5
G2.2	**-M S4B**	70	75	60	M5	11	23	4	12.2	4.5	3.5	55.5	43
	-M S4C	92	100	80	M6	14	30	5	16	5	4	59.5	47
	-M S4D	110	115	95	M8	19	40	6	21.5	7	4	68.5	56
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	81	68.5
G3.2	**-M S4C**	92	100	80	M6	14	30	5	16	5	4	74	58.5
	-M S4D	110	115	95	M8	19	40	6	21.5	7	4	84	68.5
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	95	79.5
G3.3	**-M S4B**	70	75	60	M5	11	23	4	12.2	4.5	3.5	79	46.5
	-M S4C	92	100	80	M6	14	30	5	16	5	4	83	50.5
	-M S4D	110	115	95	M8	19	40	6	21.5	7	4	92	59.5
G4.2	**-M S4D**	110	115	95	M8	19	40	6	21.5	7	4	82	63
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	93	74
	-M S4F	190	215	180	M12	32	58	10	35	9	5	101	82
G4.3	**-M S4B**	70	75	60	M5	11	23	4	12.2	4.5	3.5	77.5	43
	-M S4C	92	100	80	M6	14	30	5	16	5	4	81.5	47
	-M S4D	110	115	95	M8	19	40	6	21.5	7	4	90.5	56
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	103	68.5
G5.2	**-M S4E**	140	165	130	M10	24	50	8	27	9	4.5	99	77.5
	-M S4F	190	215	180	M12	32	58	10	35	9	5	109	87.5
G5.3	**-M S4C**	92	100	80	M6	14	30	5	16	5	4	99.5	58.5
	-M S4D	110	115	95	M8	19	40	6	21.5	7	4	109.5	68.5
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	120.5	79.5
G6.2	**-M S4F**	190	215	180	M12	32	58	10	35	9	5	106	80
G6.3	**-M S4D**	110	115	95	M8	19	40	6	21.5	7	4	112	63
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	123	74
	-M S4F	190	215	180	M12	32	58	10	35	9	5	131	82
G7.3	**-M S4F**	190	215	180	M12	32	58	10	35	9	5	146	102
G8.3	**-M S4F**	190	215	180	M12	32	58	10	35	9	5	150	102

Motorreductores de ejes paralelos F

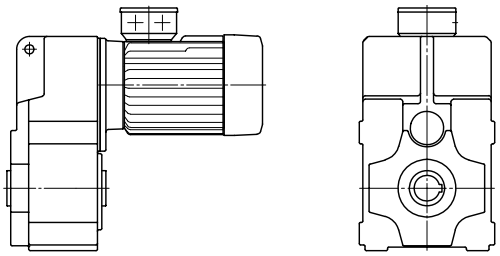
F4.2A DA100LX4 BMB

F4.2B DA100L4

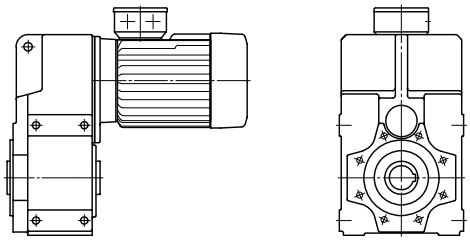
F3.2CV DA90L4



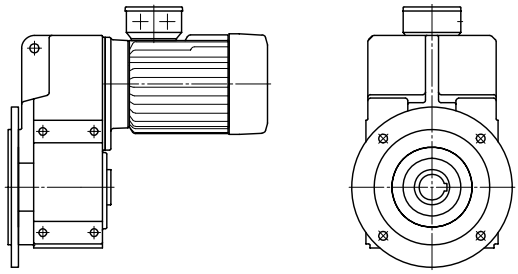
Motorreductores de ejes paralelos F



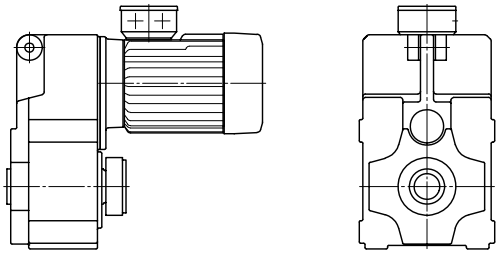
Versión con eje hueco
con eje hueco y chavetero
Ejemplo: F4.2**A** DA100L4



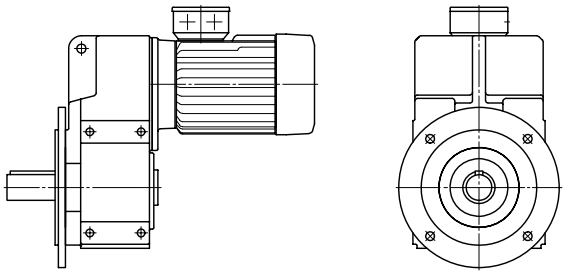
Versión con brida B14
con eje hueco y chavetero
Ejemplo: F6.2**B** DA160M4



Versión con brida B5
con eje hueco y chavetero
Ejemplo: F3.3**C** DL71G4

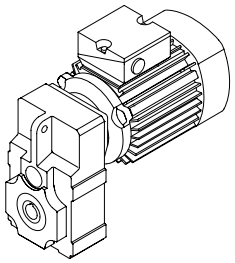


Versión con eje hueco
con eje hueco y disco de apriete
con elementos de goma
Ejemplo: F5.2**ASG** DA132M4



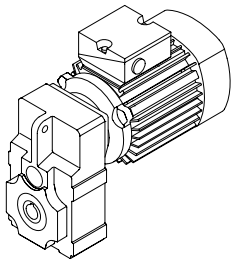
Versión con brida B5
con eje sólido y chaveta
Ejemplo: F4.2**CV** DA100LX4

Motorreductores de ejes paralelos F



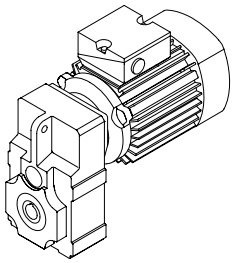
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.12									
0.37	3090	0.9	3807.8	21200	18900	**F6.3/G1.2A DL63K4**	87/88	107
0.41	2810	1.0	3460.8	21200	19400	**F6.3/G1.2B DL63K4**		107
0.47	2420	1.1	2982.5	21200	20100	**F6.3/G1.2C DL63K4**		115
0.52	2200	1.2	2710.7	21200	20500			
0.59	1950	1.4	2396.9	21200	21000			
0.65	1770	1.6	2178.5	21200	21300			
0.72	1600	1.7	1966.5	21200	21600			
0.79	1450	1.9	1787.3	21200	21900			
0.91	1260	2.2	1555.6	21200	22200			
1.00	1150	2.4	1413.8	21200	22400			
1.1	1040	2.6	1284.1	21200	22600			
1.2	950	2.9	1167.1	21200	22800			
0.74	1550	0.9	1902.3	15300	12900	**F5.3/G1.2A DL63K4**	86/88	69
0.82	1410	1.0	1729.0	15300	13200	**F5.3/G1.2B DL63K4**		69
0.90	1270	1.1	1560.7	15300	13500	**F5.3/G1.2C DL63K4**		75
0.99	1150	1.2	1418.5	15300	13800			
1.1	1000	1.3	1234.6	15300	14100			
1.3	910	1.5	1122.1	15300	14300			
1.4	830	1.6	1019.1	15300	14500			
1.5	755	1.8	926.24	15300	14600			
1.8	630	2.1	775.93	15300	14900			
2.0	575	2.4	705.22	15300	15000			
2.3	495	2.7	607.76	15300	15200			
2.6	450	3.0	552.38	15300	15300			
1.9	600	2.1	735.37	15300	15000	**F5.3A DL63K4**	86	63
2.4	480	2.8	593.46	15300	15200	**F5.3B DL63K4**		63
						F5.3C DL63K4		69
1.3	865	0.8	1064.7	10300	9260	**F4.2/G1.2A DL63K4**	85/88	39
1.5	780	0.9	961.06	10300	9490	**F4.2/G1.2B DL63K4**		39
1.6	710	1.0	873.48	10300	9680	**F4.2/G1.2C DL63K4**		43
1.9	620	1.2	760.24	10300	9930			
2.0	560	1.3	690.96	10300	10100			
2.2	510	1.4	627.56	10300	10200			
2.5	465	1.6	570.37	10300	10300			
3.0	390	1.9	477.81	10300	10600			
3.2	355	2.0	434.27	10300	10600			
3.8	305	2.4	374.25	10300	10800			
4.1	275	2.6	340.15	10300	10900			
2.1	555	1.0	681.24	10300	10100	**F4.3A DL63K4**	85	38
2.4	485	1.2	599.36	10300	10300	**F4.3B DL63K4**		38
2.9	390	1.5	481.96	10300	10500	**F4.3C DL63K4**		41
3.5	325	1.8	401.64	10300	10700			
4.6	250	2.3	308.95	10300	10900			
3.0	380	0.8	466.63	6060	2380	**F3.2/G1.2A DL63K4**	84/88	29
3.6	320	0.9	390.90	6060	2590	**F3.2/G1.2B DL63K4**		29
4.0	290	1.0	355.28	6060	2690	**F3.2/G1.2C DL63K4**		31
4.6	250	1.2	306.18	6060	2820			
5.1	225	1.3	278.28	6060	2890			
4.1	280	1.1	225.43	6060	2720	**F3.3A DL63G6**	84	24
5.2	220	1.4	176.25	6060	2920	**F3.3B DL63G6**		24
						F3.3C DL63G6		26
6.3	183	1.6	225.43	6060	3040	**F3.3A DL63K4**	84	24
8.0	143	2.1	176.25	6060	3170	**F3.3B DL63K4**		24
9.8	117	2.6	143.46	6060	3260	**F3.3C DL63K4**		26

Motorreductores de ejes paralelos F



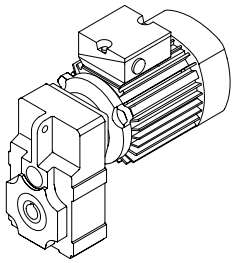
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.12									
	20	57	4.3	70.09	6060	3460	**F3.2A DL63K4**	84	21
	24	47	5.9	58.41	6060	3490	**F3.2B DL63K4**		21
	31	37	8.1	45.50	6030	3530	**F3.2C DL63K4**		23
	38	30	10.0	36.89	5660	3550			
	52	22	13.6	27.11	5140	3580			
	64	18	16.8	21.87	4800	3590			
	76	15	19.9	18.44	4550	3600			
	102	11	26.6	13.83	4150	3610			
	121	9.5	31.5	11.68	3930	3620			
0.18									
	0.52	3300	0.8	2710.7	21200	18600	**F6.3/G1.2A DL63G4**	87/88	107
	0.59	2920	0.9	2396.9	21200	19200	**F6.3/G1.2B DL63G4**		107
	0.65	2660	1.0	2178.5	21200	19700	**F6.3/G1.2C DL63G4**		115
	0.72	2400	1.1	1966.5	21200	20200			
	0.79	2180	1.3	1787.3	21200	20600			
	0.91	1900	1.5	1555.6	21200	21100			
	1.00	1720	1.6	1413.8	21200	21400			
	1.1	1570	1.8	1284.1	21200	21700			
	1.2	1420	1.9	1167.1	21200	21900			
	1.4	1190	2.3	977.67	21200	22400			
	1.6	1080	2.5	888.58	21200	22500			
	1.8	935	2.9	765.78	21200	22800			
	0.99	1730	0.8	1418.5	15300	12500	**F5.3/G1.2A DL63G4**	86/88	69
	1.1	1510	0.9	1234.6	15300	13000	**F5.3/G1.2B DL63G4**		69
	1.3	1370	1.0	1122.1	15300	13300	**F5.3/G1.2C DL63G4**		75
	1.4	1240	1.1	1019.1	15300	13600			
	1.5	1130	1.2	926.24	15300	13800			
	1.8	945	1.4	775.93	15300	14200			
	2.0	860	1.6	705.22	15300	14400			
	2.3	740	1.8	607.76	15300	14600			
	2.6	675	2.0	552.38	15300	14800			
	1.9	895	1.4	735.37	15300	14300	**F5.3A DL63G4**	86	63
	2.4	725	1.9	593.46	15300	14700	**F5.3B DL63G4**		63
	2.9	600	2.3	490.25	15300	15000	**F5.3C DL63G4**		69
	3.7	465	2.9	380.59	15300	15200			
	1.9	925	0.8	760.24	10300	9100	**F4.2/G1.2A DL63G4**	85/88	39
	2.0	840	0.9	690.96	10300	9330	**F4.2/G1.2B DL63G4**		39
	2.2	765	0.9	627.56	10300	9530	**F4.2/G1.2C DL63G4**		43
	2.5	695	1.0	570.37	10300	9720			
	3.0	585	1.2	477.81	10300	10000			
	3.2	530	1.4	434.27	10300	10200			
	3.8	455	1.6	374.25	10300	10400			
	4.1	415	1.7	340.15	10300	10500			
	2.4	730	0.8	599.36	10300	9630	**F4.3A DL63G4**	85	38
	2.9	590	1.0	481.96	10300	10000	**F4.3B DL63G4**		38
	3.5	490	1.2	401.64	10300	10300	**F4.3C DL63G4**		41
	4.6	375	1.5	308.95	10300	10600			
	6.5	265	2.2	216.27	10300	10900			
	7.9	215	2.7	177.43	10300	11000			
	4.6	375	0.8	306.18	6060	2400	**F3.2/G1.2A DL63G4**	84/88	29
	5.1	340	0.9	278.28	6060	2520	**F3.2/G1.2B DL63G4**		29
							F3.2/G1.2C DL63G4		31
	5.2	330	0.9	176.25	6060	2560	**F3.3A DL71K6**	84	24
							F3.3B DL71K6		24
							F3.3C DL71K6		26

Motorreductores de ejes paralelos F



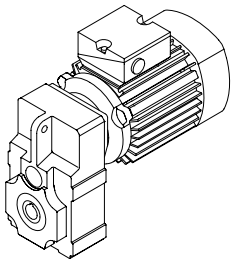
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.18									
	6.3	275	1.1	225.43	6060	2730	**F3.3A DL63G4**	84	24
	8.0	215	1.4	176.25	6060	2930	**F3.3B DL63G4**		24
	9.8	175	1.7	143.46	6060	3070	**F3.3C DL63G4**		26
	13	130	2.3	106.57	6060	3220			
	17	100	3.0	81.98	6060	3320			
	20	85	2.8	70.09	6060	3360	**F3.2A DL63G4**	84	21
	24	71	4.0	58.41	6060	3410	**F3.2B DL63G4**		21
	31	55	5.4	45.50	5900	3460	**F3.2C DL63G4**		23
	38	45	6.6	36.89	5550	3500			
	52	33	9.0	27.11	5060	3540			
	64	27	11.2	21.87	4740	3560			
	76	22	13.3	18.44	4500	3570			
	102	17	17.7	13.83	4110	3590			
	121	14	21.0	11.68	3900	3600			
0.25									
	0.70	3390	0.8	1966.5	21200	18400	**F6.3/G1.2A DL71K4**	87/88	107
	0.77	3080	0.9	1787.3	21200	19000	**F6.3/G1.2B DL71K4**		107
	0.89	2680	1.0	1555.6	21200	19700	**F6.3/G1.2C DL71K4**		115
	0.98	2440	1.1	1413.8	21200	20100			
	1.1	2210	1.2	1284.1	21200	20500			
	1.2	2010	1.4	1167.1	21200	20900			
	1.4	1690	1.6	977.67	21200	21500			
	1.6	1530	1.8	888.58	21200	21700			
	1.8	1320	2.1	765.78	21200	22100			
	2.0	1200	2.3	696.00	21200	22300			
	1.4	1760	0.8	1019.1	15300	12500	**F5.3/G1.2A DL71K4**	86/88	69
	1.5	1600	0.8	926.24	15300	12800	**F5.3/G1.2B DL71K4**		69
	1.8	1340	1.0	775.93	15300	13400	**F5.3/G1.2C DL71K4**		75
	2.0	1220	1.1	705.22	15300	13600			
	2.3	1050	1.3	607.76	15300	14000			
	2.5	950	1.4	552.38	15300	14200			
	1.9	1270	1.0	735.37	15300	13500	**F5.3A DL71K4**	86	63
	2.3	1020	1.3	593.46	15300	14000	**F5.3B DL71K4**		63
	2.8	845	1.6	490.25	15300	14400	**F5.3C DL71K4**		69
	3.6	655	2.1	380.59	15300	14800			
	4.5	535	2.5	309.63	15300	15100			
	2.9	825	0.9	477.81	10300	9380	**F4.2/G1.2A DL71K4**	85/88	39
	3.2	750	1.0	434.27	10300	9580	**F4.2/G1.2B DL71K4**		39
	3.7	645	1.1	374.25	10300	9860	**F4.2/G1.2C DL71K4**		43
	4.1	585	1.2	340.15	10300	10000			
	3.4	690	0.8	401.64	10300	9730	**F4.3A DL71K4**	85	38
	4.5	535	1.1	308.95	10300	10200	**F4.3B DL71K4**		38
	6.4	375	1.6	216.27	10300	10600	**F4.3C DL71K4**		41
	7.8	305	1.9	177.43	10300	10800			
	9.9	240	2.4	140.35	10300	10900			
	12	200	2.9	115.86	10300	11100			
	6.1	390	0.8	225.43	6060	2350	**F3.3A DL71K4**	84	24
	7.9	305	1.0	176.25	6060	2640	**F3.3B DL71K4**		24
	9.7	245	1.2	143.46	6060	2820	**F3.3C DL71K4**		26
	13	184	1.6	106.57	6060	3040			
	17	141	2.1	81.98	6060	3180			

Motorreductores de ejes paralelos F



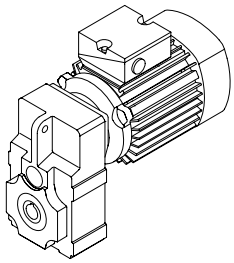
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.25									
	20	121	2.0	70.09	6060	3250	**F3.2A DL71K4**	84	21
	24	101	2.8	58.41	6060	3310	**F3.2B DL71K4**		21
	30	78	3.8	45.50	5770	3390	**F3.2C DL71K4**		23
	38	64	4.7	36.89	5450	3440			
	51	47	6.4	27.11	4990	3490			
	63	38	7.9	21.87	4690	3520			
	75	32	9.4	18.44	4460	3540			
	100	24	12.5	13.83	4090	3570			
	119	20	14.8	11.68	3880	3580			
0.37									
	1.1	3290	0.8	1284.1	21200	18600	**F6.3/G1.2A DL71G4**	87/88	108
	1.2	2990	0.9	1167.1	21200	19100	**F6.3/G1.2B DL71G4**		108
	1.4	2500	1.1	977.67	21200	20000	**F6.3/G1.2C DL71G4**		116
	1.6	2280	1.2	888.58	21200	20400			
	1.8	1960	1.4	765.78	21200	21000			
	2.0	1780	1.5	696.00	21200	21300			
	2.3	1560	0.9	607.76	15300	12900	**F5.3/G1.2A DL71G4**	86/88	70
	2.5	1410	1.0	552.38	15300	13200	**F5.3/G1.2B DL71G4**		70
							F5.3/G1.2C DL71G4		76
	2.3	1520	0.9	593.46	15300	13000	**F5.3A DL71G4**	86	64
	2.8	1260	1.1	490.25	15300	13500	**F5.3B DL71G4**		64
	3.6	975	1.4	380.59	15300	14100	**F5.3C DL71G4**		70
	4.5	795	1.7	309.63	15300	14500			
	6.2	565	2.4	221.16	15300	15000			
	7.7	460	2.9	179.70	15300	15300			
	4.1	870	0.8	340.15	10300	9250	**F4.2/G1.2A DL71G4**	85/88	40
							F4.2/G1.2B DL71G4		40
							F4.2/G1.2C DL71G4		44
	6.4	555	1.0	216.27	10300	10100	**F4.3A DL71G4**	85	39
	7.8	455	1.3	177.43	10300	10400	**F4.3B DL71G4**		39
	9.8	360	1.6	140.35	10300	10600	**F4.3C DL71G4**		42
	12	295	1.9	115.86	10300	10800			
	16	225	2.6	88.21	10300	11000			
	9.6	365	0.8	143.46	6060	2420	**F3.3A DL71G4**	84	25
	13	275	1.1	106.57	6060	2740	**F3.3B DL71G4**		25
	17	210	1.4	81.98	6060	2950	**F3.3C DL71G4**		27
	20	179	1.4	70.09	6030	3050	**F3.2A DL71G4**	84	22
	24	150	1.9	58.41	5820	3150	**F3.2B DL71G4**		22
	30	116	2.6	45.50	5500	3260	**F3.2C DL71G4**		24
	37	94	3.2	36.89	5230	3330			
	51	69	4.3	27.11	4840	3420			
	63	56	5.3	21.87	4560	3460			
	75	47	6.3	18.44	4350	3490			
	100	35	8.4	13.83	4010	3530			
	118	30	10.0	11.68	3820	3550			
0.55									
	1.6	3360	0.8	888.58	21200	18500	**F6.3/G1.2A DA80K4**	87/88	110
	1.8	2890	1.0	765.78	21200	19300	**F6.3/G1.2B DA80K4**		110
	2.0	2630	1.0	696.00	21200	19800	**F6.3/G1.2C DA80K4**		119

Motorreductores de ejes paralelos F



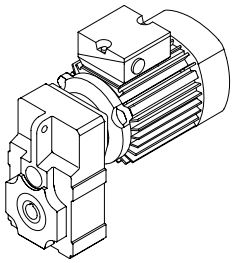
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.55									
	2.0	2580	0.9	682.73	21200	19900	**F6.3A DA80K4**	87	105
	2.4	2150	1.3	568.94	21200	20600	**F6.3B DA80K4**		105
	3.1	1670	1.6	443.18	21200	21500	**F6.3C DA80K4**		114
	3.9	1360	2.0	359.33	21200	22100			
	5.3	1000	2.8	264.11	21200	22700			
	3.7	1440	0.9	380.59	15300	13100	**F5.3A DA80K4**	86	67
	4.5	1170	1.2	309.63	15300	13700	**F5.3B DA80K4**		67
	6.3	835	1.6	221.16	15300	14400	**F5.3C DA80K4**		73
	7.7	680	2.0	179.70	15300	14800			
	9.3	565	2.4	149.98	15300	15000			
	7.8	670	0.9	177.43	10300	9790	**F4.3A DA80K4**	85	42
	9.9	530	1.1	140.35	10300	10200	**F4.3B DA80K4**		42
	12	440	1.3	115.86	10300	10400	**F4.3C DA80K4**		45
	16	335	1.7	88.21	10300	10700			
	20	260	2.2	69.09	10300	10900			
	26	199	2.9	52.68	9920	11100			
	20	270	1.6	70.89	10300	10900	**F4.2A DA80K4**	85	38
	25	210	2.5	55.61	10100	11000	**F4.2B DA80K4**		38
							F4.2C DA80K4		41
	17	310	1.0	81.98	5470	2620	**F3.3A DA80K4**	84	28
							F3.3B DA80K4		28
							F3.3C DA80K4		30
	20	265	0.9	70.09	5400	2770	**F3.2A DA80K4**	84	25
	24	220	1.3	58.41	5290	2910	**F3.2B DA80K4**		25
	31	172	1.7	45.50	5090	3080	**F3.2C DA80K4**		27
	38	139	2.1	36.89	4900	3180			
	51	102	2.9	27.11	4590	3310			
	64	83	3.6	21.87	4360	3370			
	75	70	4.3	18.44	4180	3420			
	100	52	5.7	13.83	3880	3480			
	119	44	6.8	11.68	3700	3500			
0.75									
	2.0	3540	0.8	696.00	21200	18100	**F6.3/G1.2A DA80G4**	87/88	113
							F6.3/G1.2B DA80G4		113
							F6.3/G1.2C DA80G4		121
	2.5	2890	1.0	568.94	21200	19300	**F6.3A DA80G4**	87	108
	3.2	2250	1.2	443.18	21200	20400	**F6.3B DA80G4**		108
	3.9	1830	1.5	359.33	21200	21200	**F6.3C DA80G4**		116
	5.3	1340	2.0	264.11	21200	22100			
	6.6	1080	2.5	213.03	21200	22600			
	7.8	915	3.0	179.67	21200	22900			
	4.6	1570	0.9	309.63	15300	12900	**F5.3A DA80G4**	86	69
	6.4	1120	1.2	221.16	15300	13800	**F5.3B DA80G4**		69
	7.8	915	1.5	179.70	15300	14300	**F5.3C DA80G4**		75
	9.4	760	1.8	149.98	15300	14600			
	12	580	2.3	114.11	15300	15000			
	16	460	2.9	90.31	15300	15300			
	10	715	0.8	140.35	10300	9670	**F4.3A DA80G4**	85	44
	12	590	1.0	115.86	10300	10000	**F4.3B DA80G4**		44
	16	450	1.3	88.21	10300	10400	**F4.3C DA80G4**		48
	20	350	1.6	69.09	10000	10700			
	27	270	2.2	52.68	9470	10900			
	37	193	3.0	37.92	8760	11100			

Motorreductores de ejes paralelos F



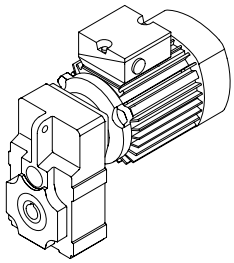
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.75									
	20	360	1.2	70.89	10100	10600	**F4.2A DA80G4**	85	40
	25	280	1.9	55.61	9590	10800	**F4.2B DA80G4**		40
	31	230	2.8	45.22	9140	11000	**F4.2C DA80G4**		43
	24	295	1.0	58.41	4710	2660	**F3.2A DA80G4**	84	27
	31	230	1.3	45.50	4630	2880	**F3.2B DA80G4**		27
	38	187	1.6	36.89	4520	3020	**F3.2C DA80G4**		29
	52	138	2.2	27.11	4310	3190			
	64	111	2.7	21.87	4130	3280			
	76	94	3.2	18.44	3990	3340			
	102	70	4.3	13.83	3730	3420			
	121	59	5.0	11.68	3570	3450			
1.1									
	3.1	3350	0.8	443.18	21200	18500	**F6.3A DA90S4**	87	109
	3.9	2720	1.0	359.33	21200	19600	**F6.3B DA90S4**		109
	5.3	2000	1.4	264.11	21200	20900	**F6.3C DA90S4**		117
	6.5	1610	1.7	213.03	21200	21600			
	7.7	1360	2.0	179.67	21200	22100			
	10	1020	2.7	134.750	21200	22700			
	7.7	1360	1.0	179.70	15300	13300	**F5.3A DA90S4**	86	70
	9.3	1130	1.2	149.98	15300	13800	**F5.3B DA90S4**		70
	12	860	1.6	114.11	15300	14400	**F5.3C DA90S4**		76
	15	685	2.0	90.31	14700	14800			
	17	625	2.1	82.94	14500	14900			
	19	555	2.4	73.54	14200	15000			
	23	465	2.9	61.57	13600	15200			
	16	665	0.9	88.21	9320	9800	**F4.3A DA90S4**	85	46
	20	520	1.1	69.09	9120	10200	**F4.3B DA90S4**		46
							F4.3C DA90S4		49
	20	535	0.8	70.89	9150	10200	**F4.2A DA90S4**	85	41
	25	420	1.3	55.61	8860	10500	**F4.2B DA90S4**		41
	31	340	1.9	45.22	8560	10700	**F4.2C DA90S4**		45
	41	255	2.8	33.550	8060	10900			
	31	345	0.9	45.50	3850	2500	**F3.2A DA90S4**	84	29
	38	280	1.1	36.89	3890	2720	**F3.2B DA90S4**		29
	51	205	1.5	27.11	3850	2970	**F3.2C DA90S4**		31
	64	165	1.8	21.87	3770	3100			
	75	139	2.1	18.44	3680	3180			
	100	105	2.9	13.83	3500	3300			
	119	88	3.4	11.68	3390	3360			
	152	69	4.3	9.15	3210	3420			
	193	54	5.5	7.19	3030	3470			
	259	41	7.4	5.38	2810	3510			
	346	30	9.9	4.01	2600	3550			
1.5									
	5.3	2690	1.0	264.11	21200	19700	**F6.3A DA90L4**	87	111
	6.6	2170	1.3	213.03	21200	20600	**F6.3B DA90L4**		111
	7.8	1830	1.5	179.67	21200	21200	**F6.3C DA90L4**		119
	10	1370	2.0	134.750	21200	22000			
	12	1160	2.4	113.79	21200	22400			
	16	910	3.0	89.14	21200	22900			

Motorreductores de ejes paralelos F



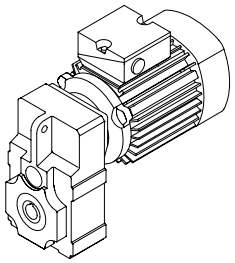
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
1.5									
	9.4	1530	0.9	149.98	14000	12900	**F5.3A DA90L4**	86	73
	12	1160	1.2	114.11	13900	13700	**F5.3B DA90L4**		73
	16	920	1.5	90.31	13500	14300	**F5.3C DA90L4**		79
	17	845	1.6	82.94	13400	14400			
	19	750	1.8	73.54	13200	14600			
	23	630	2.1	61.57	12800	14900			
	26	560	2.4	54.74	12500	15000			
	20	725	1.3	70.89	13100	14700	**F5.2A DA90L4**	86	67
	24	590	1.7	58.06	12700	15000	**F5.2B DA90L4**		67
	32	445	2.9	43.450	11900	15300	**F5.2C DA90L4**		73
	20	705	0.8	69.09	8040	9700	**F4.3A DA90L4**	85	48
							F4.3B DA90L4		48
							F4.3C DA90L4		51
	25	565	0.9	55.61	7980	10100	**F4.2A DA90L4**	85	44
	31	460	1.4	45.22	7840	10400	**F4.2B DA90L4**		44
	42	340	2.1	33.550	7530	10700	**F4.2C DA90L4**		47
	49	290	2.5	28.600	7320	10800			
	61	235	2.3	23.15	7030	11000			
	38	375	0.8	36.89	3170	2390	**F3.2A DA90L4**	84	31
	52	275	1.1	27.11	3310	2730	**F3.2B DA90L4**		31
	64	225	1.3	21.87	3330	2910	**F3.2C DA90L4**		33
	76	188	1.6	18.44	3310	3020			
	102	141	2.1	13.83	3220	3180			
	120	119	2.5	11.68	3150	3250			
	154	93	3.2	9.15	3020	3340			
	195	73	4.1	7.19	2880	3410			
	261	55	5.5	5.38	2700	3470			
	350	41	7.3	4.01	2510	3510			
2.2									
	7.7	2720	1.0	179.67	21100	19600	**F6.3A DA100L4**	87	113
	10	2040	1.3	134.750	20900	20800	**F6.3B DA100L4**		113
	12	1720	1.6	113.79	20600	21400	**F6.3C DA100L4**		121
	16	1350	2.0	89.14	19900	22100			
	20	1060	2.6	70.070	19100	22600			
	15	1370	1.0	90.31	11500	13300	**F5.3A DA100L4**	86	74
							F5.3B DA100L4		74
							F5.3C DA100L4		80
	20	1070	0.8	70.89	11500	13900	**F5.2A DA100L4**	86	68
	24	880	1.2	58.06	11400	14400	**F5.2B DA100L4**		68
	32	655	1.9	43.450	11000	14800	**F5.2C DA100L4**		74
	38	555	2.6	36.850	10700	15000			
	60	350	2.9	23.15	9760	15500			
	31	685	0.9	45.22	6610	9750	**F4.2A DA100L4**	85	45
	41	505	1.4	33.550	6620	10200	**F4.2B DA100L4**		45
	49	430	1.7	28.600	6550	10400	**F4.2C DA100L4**		48
	60	350	1.5	23.15	6410	10700			
	80	265	2.7	17.42	6140	10900			

Motorreductores de ejes paralelos F



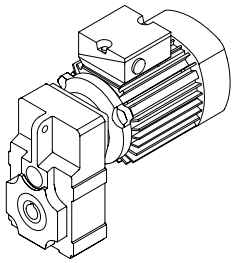
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
2.2									
	75	280	1.1	18.44	2680	2720	**F3.2A DA100L4**	84	32
	100	210	1.4	13.83	2750	2950	**F3.2B DA100L4**		32
	119	177	1.7	11.68	2750	3060	**F3.2C DA100L4**		34
	152	138	2.2	9.15	2710	3190			
	193	109	2.7	7.19	2640	3290			
	259	81	3.7	5.38	2520	3380			
	346	61	4.9	4.01	2380	3450			
3.0									
	10	2740	1.0	134.750	18000	19600	**F6.3A DA100LX4**	87	120
	12	2310	1.2	113.79	18100	20300	**F6.3B DA100LX4**		120
	16	1810	1.5	89.14	17900	21200	**F6.3C DA100LX4**		128
	20	1420	1.9	70.070	17500	21900			
	27	1060	2.6	52.360	16800	22600			
	20	1470	1.2	72.11	17600	21900	**F6.2A DA100LX4**	87	109
	26	1100	1.8	53.900	16900	22500	**F6.2B DA100LX4**		109
	31	940	2.6	46.200	16400	22800	**F6.2C DA100LX4**		117
	24	1180	0.9	58.06	9860	13700	**F5.2A DA100LX4**	86	75
	32	885	1.4	43.450	9840	14300	**F5.2B DA100LX4**		75
	38	750	1.9	36.850	9720	14600	**F5.2C DA100LX4**		81
	47	605	2.5	29.79	9490	14900			
	61	470	2.2	23.15	9140	15200			
	42	680	1.1	33.550	5580	9760	**F4.2A DA100LX4**	85	52
	49	580	1.2	28.600	5660	10000	**F4.2B DA100LX4**		52
	61	470	1.2	23.15	5680	10300	**F4.2C DA100LX4**		56
	81	355	2.0	17.42	5590	9870			
	104	275	2.6	13.52	5420	9180			
	119	240	2.9	11.85	5320	8820			
	76	375	0.8	18.44	1960	2400	**F3.2A DA100LX4**	84	39
	102	280	1.1	13.83	2210	2710	**F3.2B DA100LX4**		39
	121	235	1.3	11.68	2290	2860	**F3.2C DA100LX4**		41
	154	186	1.6	9.15	2350	3030			
	196	146	2.0	7.19	2350	3160			
	262	109	2.7	5.38	2300	3290			
	351	82	3.7	4.01	2220	3380			
4.0									
	12	3100	0.9	113.79	15100	18900	**F6.3A DA112M4**	87	125
	16	2430	1.1	89.14	15600	20100	**F6.3B DA112M4**		125
	20	1910	1.4	70.070	15700	21100	**F6.3C DA112M4**		133
	27	1430	1.9	52.360	15400	21900			
	19	1970	0.9	72.11	15700	21000	**F6.2A DA112M4**	87	114
	26	1470	1.3	53.900	15500	21900	**F6.2B DA112M4**		114
	30	1260	1.9	46.200	15200	22200	**F6.2C DA112M4**		122
	37	1030	2.4	37.58	14800	22700			
	32	1190	1.1	43.450	8440	13700	**F5.2A DA112M4**	86	80
	38	1010	1.4	36.850	8540	14100	**F5.2B DA112M4**		80
	47	815	1.8	29.79	8540	14500	**F5.2C DA112M4**		86
	60	630	1.6	23.15	8400	14900			
	76	500	3.0	18.33	8170	14400			

Motorreductores de ejes paralelos F



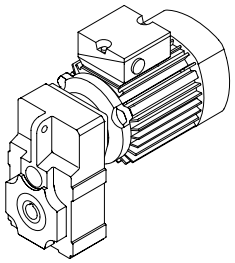
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
4.0									
	42	915	0.8	33.550	4270	8590	**F4.2A DA112M4**	85	57
	49	780	0.9	28.600	4550	8790	**F4.2B DA112M4**		57
	60	630	0.9	23.15	4780	8840	**F4.2C DA112M4**		61
	80	475	1.5	17.42	4920	8620			
	104	370	1.9	13.52	4900	8260			
	118	325	2.1	11.85	4860	8040			
	161	240	3.0	8.71	4700	7470			
	101	375	0.8	13.83	1530	2390	**F3.2A DA112M4**	84	44
	120	320	0.9	11.68	1720	2590	**F3.2B DA112M4**		44
	153	250	1.2	9.15	1900	2820	**F3.2C DA112M4**		46
	195	196	1.5	7.19	2000	2990			
	260	147	2.0	5.38	2040	3160			
	349	109	2.7	4.01	2020	3280			
5.5									
	16	3250	0.8	89.14	12100	18600	**F6.3A DA132S4**	87	141
							F6.3B DA132S4		141
							F6.3C DA132S4		149
	27	1970	1.0	53.900	13300	21000	**F6.2A DA132S4**	87	130
	31	1690	1.4	46.200	13400	21500	**F6.2B DA132S4**		130
	38	1370	1.8	37.58	13300	22000	**F6.2C DA132S4**		138
	50	1060	2.4	28.97	13000	22600			
	33	1580	0.8	43.450	6420	12800	**F5.2A DA132S4**	86	96
	39	1340	1.1	36.850	6810	13300	**F5.2B DA132S4**		96
	48	1090	1.4	29.79	7130	13600	**F5.2C DA132S4**		102
	62	845	1.2	23.15	7290	13200			
	79	670	2.2	18.33	7270	12600			
	101	520	2.9	14.300	7140	11900			
	83	635	1.1	17.42	3930	6880	**F4.2A DA132S4**	85	73
	107	495	1.5	13.52	4130	6930	**F4.2B DA132S4**		73
	122	430	1.6	11.85	4180	6880	**F4.2C DA132S4**		77
	165	320	2.3	8.71	4180	6630			
	203	260	2.8	7.10	4120	6390			
	269	195	3.7	5.35	3980	6010			
	358	147	4.9	4.02	3800	5600			
7.5									
	31	2300	1.0	46.200	11000	20400	**F6.2A DA132M4**	87	134
	38	1870	1.3	37.58	11300	21100	**F6.2B DA132M4**		134
	50	1440	1.8	28.97	11500	20500	**F6.2C DA132M4**		142
	66	1080	2.3	21.750	11300	19300			
	79	910	2.9	18.260	11100	18400			
	39	1830	0.8	36.850	4500	9280	**F5.2A DA132M4**	86	100
	48	1480	1.0	29.79	5260	10100	**F5.2B DA132M4**		100
	62	1150	0.9	23.15	5840	10600	**F5.2C DA132M4**		106
	79	910	1.6	18.33	6120	10600			
	101	710	2.1	14.300	6240	10400			
	119	605	2.5	12.15	6240	10200			
	83	865	0.8	17.42	2610	4780	**F4.2A DA132M4**	85	78
	107	675	1.1	13.52	3110	5320	**F4.2B DA132M4**		78
	122	590	1.2	11.85	3280	5480	**F4.2C DA132M4**		81
	165	435	1.7	8.71	3530	5620			
	203	355	2.0	7.10	3590	5580			
	269	265	2.7	5.35	3580	5410			
	358	200	3.6	4.02	3490	5160			

Motorreductores de ejes paralelos F



P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
9.2									
	31	2840	0.8	46.200	8900	17600	**F6.2A DA132MX4**	87	138
	38	2310	1.1	37.58	9640	18200	**F6.2B DA132MX4**		138
	49	1780	1.4	28.97	10200	18200	**F6.2C DA132MX4**		146
	66	1340	1.8	21.750	10300	17600			
	78	1120	2.3	18.260	10300	17000			
	48	1830	0.8	29.79	3640	7420	**F5.2A DA132MX4**	86	105
	78	1130	1.3	18.33	5130	9000	**F5.2B DA132MX4**		105
	100	880	1.7	14.300	5470	9180	**F5.2C DA132MX4**		111
	118	745	2.0	12.15	5590	9150			
	162	540	2.8	8.800	5630	8850			
	106	830	0.9	13.52	2220	3990	**F4.2A DA132MX4**	85	82
	121	730	0.9	11.85	2510	4320	**F4.2B DA132MX4**		82
	164	535	1.3	8.71	2960	4780	**F4.2C DA132MX4**		85
	202	435	1.6	7.10	3130	4910			
	267	330	2.2	5.35	3230	4920			
	355	245	2.9	4.02	3240	4800			
11.0									
	39	2690	0.9	37.58	7980	15100	**F6.2A DA160M4**	87	157
	51	2080	1.2	28.97	8860	15800	**F6.2B DA160M4**		157
	67	1560	1.6	21.750	9340	15800	**F6.2C DA160M4**		165
	80	1310	2.0	18.260	9450	15600			
	102	1030	2.7	14.40	9420	15100			
	125	840	2.7	11.73	9280	14500			
	80	1310	1.1	18.33	4160	7440	**F5.2A DA160M4**	86	122
	102	1030	1.5	14.300	4700	7950	**F5.2B DA160M4**		122
	121	870	1.7	12.15	4930	8100	**F5.2C DA160M4**		128
	166	630	2.4	8.800	5140	8090			
	206	510	2.9	7.12	5160	7930			
	253	415	3.3	5.79	5100	7690			
15.0									
	67	2130	1.1	21.750	7120	12300	**F6.2A DA160L4**	87	176
	80	1790	1.5	18.260	7580	12600	**F6.2B DA160L4**		176
	102	1410	2.0	14.40	7950	12800	**F6.2C DA160L4**		184
	125	1150	2.0	11.73	8080	12700			
	164	870	3.0	8.91	8060	12300			
	80	1790	0.8	18.33	1900	4130	**F5.2A DA160L4**	86	141
	102	1400	1.1	14.300	2940	5360	**F5.2B DA160L4**		141
	121	1190	1.3	12.15	3430	5900	**F5.2C DA160L4**		147
	166	860	1.7	8.800	4060	6510			
	206	695	2.2	7.12	4280	6670			
	253	565	2.4	5.79	4390	6670			
18.5									
	67	2620	0.9	21.750	5170	9330	**F6.2A DA180M4**	87	202
	80	2200	1.2	18.260	5940	10200	**F6.2B DA180M4**		202
	102	1740	1.6	14.40	6660	10900	**F6.2C DA180M4**		210
	125	1420	1.6	11.73	7030	11100			
	164	1070	2.4	8.91	7260	11100			
	102	1720	0.9	14.300	1400	3210	**F5.2A DA180M4**	86	167
	121	1460	1.0	12.15	2120	4070	**F5.2B DA180M4**		167
	166	1060	1.4	8.800	3110	5180	**F5.2C DA180M4**		173
	206	860	1.8	7.12	3510	5590			
	253	700	2.0	5.79	3760	5810			

Motorreductores de ejes paralelos F



P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
22.0									
	102	2050	1.3	14.40	5390	9020	**F6.2A DA180L4**	87	234
	126	1670	1.4	11.73	6000	9610	**F6.2B DA180L4**		234
	165	1270	2.1	8.91	6480	9970	**F6.2C DA180L4**		242
	206	1020	2.7	7.17	6650	9980			
	254	825	3.0	5.80	6690	9840			
30.0									
	102	2800	1.0	14.40	2470	4970	**F6.2A DA200L4**	87	270
	126	2280	1.0	11.73	3620	6310	**F6.2B DA200L4**		270
	165	1730	1.5	8.91	4660	7460	**F6.2C DA200L4**		279
	206	1390	2.0	7.17	5190	7980			
	254	1130	2.2	5.80	5510	8230			

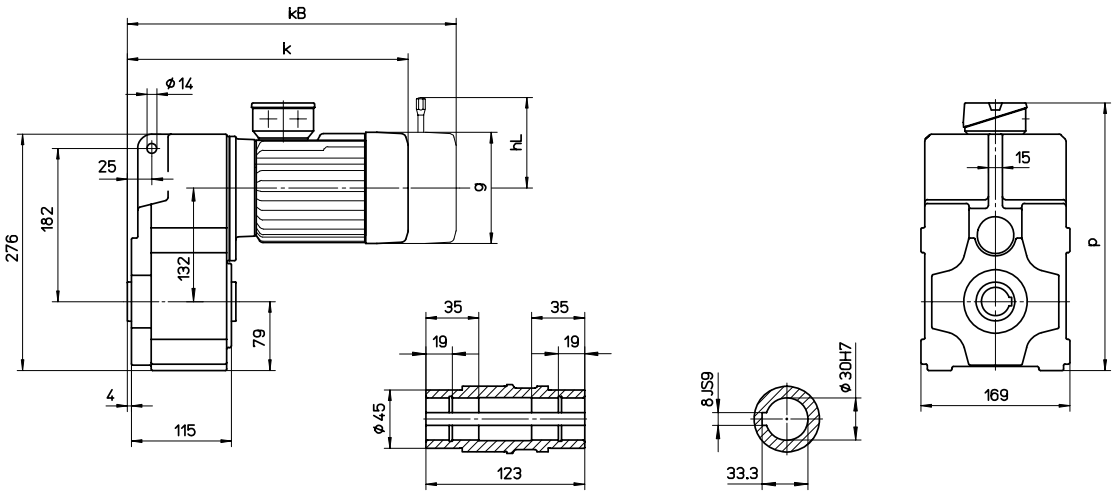
Motorreductores de ejes paralelos F para muy baja velocidad

M [Nm]	n2 Peso [1/min]	i	Tipo	Dimensiones Página	[kg]
300	**0.36**	3875.6	**F3.2/G1.2A DL63K4**	84/88	29
	0.40	3522.4	**F3.2/G1.2B DL63K4**		29
	0.41	3409.8	**F3.2/G1.2C DL63K4**		31
	0.47	3018.9			
	0.51	2743.8			
	0.53	2656.1			
	0.58	2414.0			
	0.66	2135.8			
	0.73	1941.2			
	0.79	1779.8			
	0.87	1617.6			
	1.0	1369.1			
	1.1	1244.3			
	1.5	958.37			
	1.6	871.04			
	1.8	786.26			
	2.0	714.61			
	2.3	621.96			
	2.5	565.29			
	2.7	513.41			
720	**0.30**	4703.8	**F4.2/G1.2A DL63K4**	85/88	39
	0.33	4275.1	**F4.2/G1.2B DL63K4**		39
	0.34	4138.5	**F4.2/G1.2C DL63K4**		43
	0.38	3690.0			
	0.42	3353.8			
	0.43	3246.6			
	0.48	2950.7			
	0.54	2610.6			
	0.59	2372.7			
	0.65	2175.5			
	0.71	1977.3			
	0.84	1673.5			
	0.93	1521.0			
	1.2	1171.4			

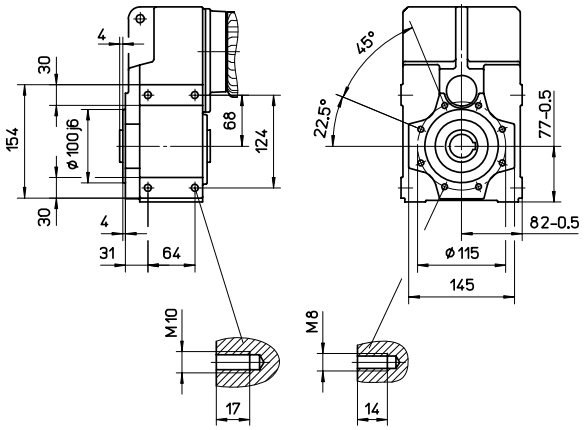
M [Nm]	n2 Peso [1/min]	i	Tipo	Dimensiones Página	[kg]
1350	**0.043**	32530	**F5.3/G1.2A DL63K4**	86/88	69
	0.048	29566	**F5.3/G1.2B DL63K4**		69
	0.049	28620	**F5.3/G1.2C DL63K4**		75
	0.056	25253			
	0.061	22952			
	0.063	22218			
	0.070	20194			
	0.079	17866			
	0.087	16238			
	0.095	14889			
	0.10	13532			
	0.12	11453			
	0.14	10409			
	0.18	8017.0			
	0.19	7286.4			
	0.21	6577.2			
	0.24	5977.9			
	0.27	5202.9			
	0.30	4728.8			
	0.33	4294.8			
	0.36	3903.5			
	0.43	3270.0			
	0.47	2972.0			
	0.55	2561.3			
	0.61	2327.9			
2750	**0.037**	37752	**F6.3/G1.2A DL63K4**	87/88	107
	0.041	34312	**F6.3/G1.2B DL63K4**		107
	0.042	33215	**F6.3/G1.2C DL63K4**		115
	0.048	29407			
	0.053	26727			
	0.054	25873			
	0.060	23515			
	0.068	20805			
	0.075	18909			
	0.081	17337			
	0.089	15757			
	0.11	13336			
	0.12	12121			
	0.15	9335.5			
	0.17	8484.8			
	0.18	7658.9			
	0.20	6961.0			
	0.23	6058.5			
	0.26	5506.4			
	0.28	5001.1			
	0.31	4545.4			

Motorreductores de ejes paralelos F

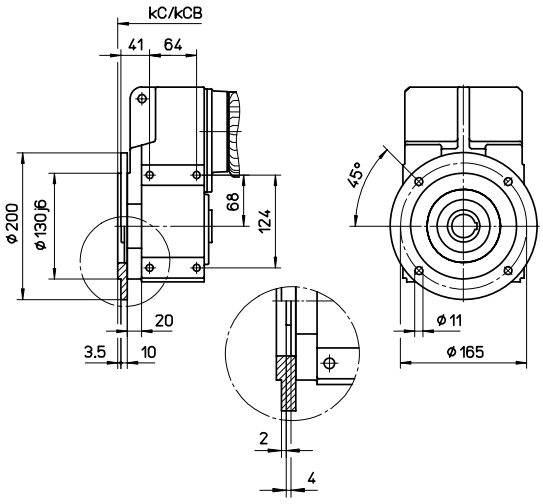
F3.2A, F3.3A Versión con eje hueco



F3.2B, F3.3B Versión con brida B14



F3.2C, F3.3C Versión con brida B5

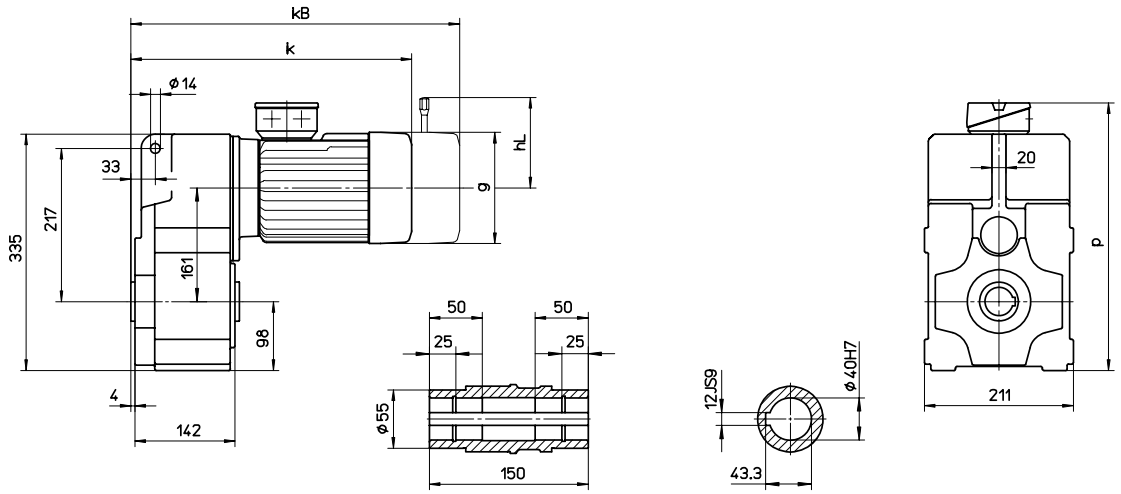


	k	kB	kC	kCB	g	p	hL
F3.2_ DL63/71	301	353	307	359	126	324	106
F3.3_ DL63/71	328	380	334	386	126	324	106
F3.2_ DA80	350	421	357	428	158	346	128
F3.3_ DA80	377	448	384	455	158	346	128
F3.2_ DA90S	350	421	357	428	158	346	128
F3.2_ DA90L	397	462	403	467	176	360	168
F3.2_ DA100L	397	462	403	467	176	360	168
F3.2_ DA100LX	435	509	441	515	197	367	176
F3.2_ DA112	435	509	441	515	197	367	176

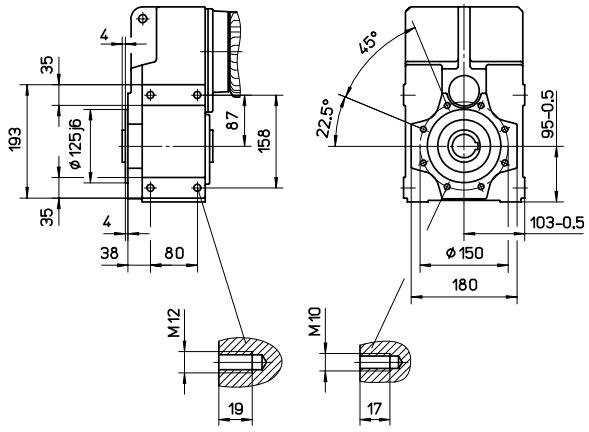
Las cotas kB y hL conciernen a los motorreductores con freno.

Motorreductores de ejes paralelos F

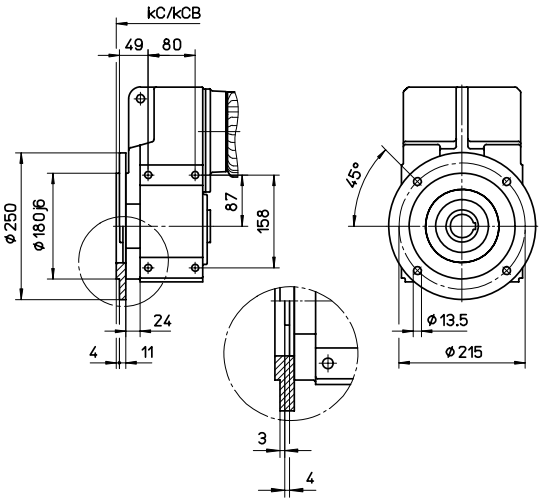
F4.2A, F4.3A Versión con eje hueco



F4.2B, F4.3B Versión con brida B14



F4.2C, F4.3C Versión con brida B5

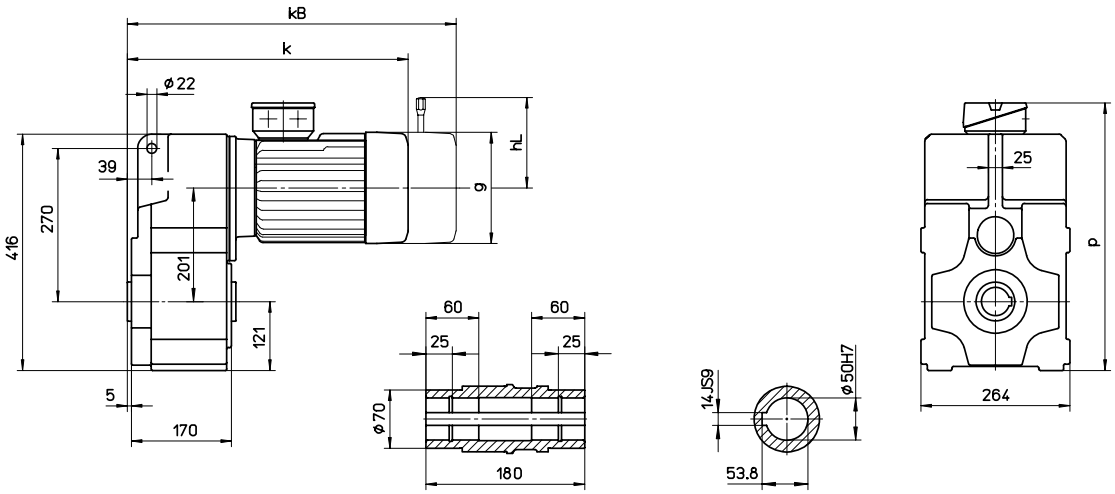


	k	kB	kC	kCB	g	p	hL
F4.3_ DL63/71	350	402	357	409	126	372	106
F4.2_ DA80	371	442	379	450	158	394	128
F4.3_ DA80	398	469	406	477	158	394	128
F4.2_ DA90S	371	442	379	437	158	394	128
F4.2_ DA90L	418	483	425	489	176	408	168
F4.2_ DA100L	418	483	425	489	176	408	168
F4.2_ DA100LX	456	530	463	536	195	415	176
F4.2_ DA112	456	530	463	536	195	415	176
F4.2_ DA132	560	659	568	667	245	447	225

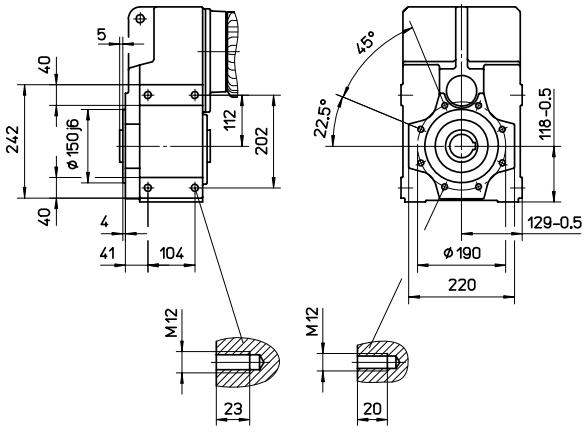
Las cotas kB y hL conciernen a los motorreductores con freno.

Motorreductores de ejes paralelos F

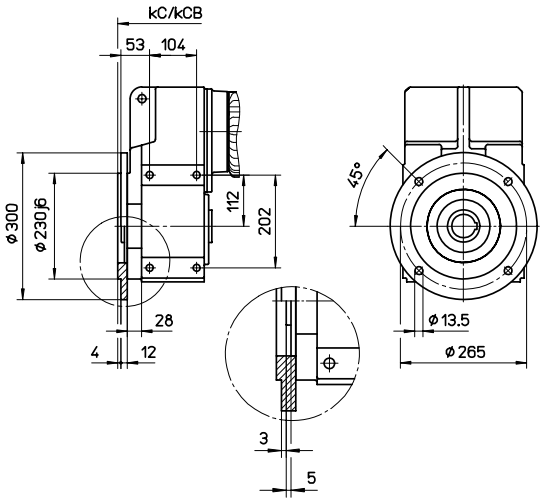
F5.2A, F5.3A Versión con eje hueco



F5.2B, F5.3B Versión con brida B14



F5.2C, F5.3C Versión con brida B5

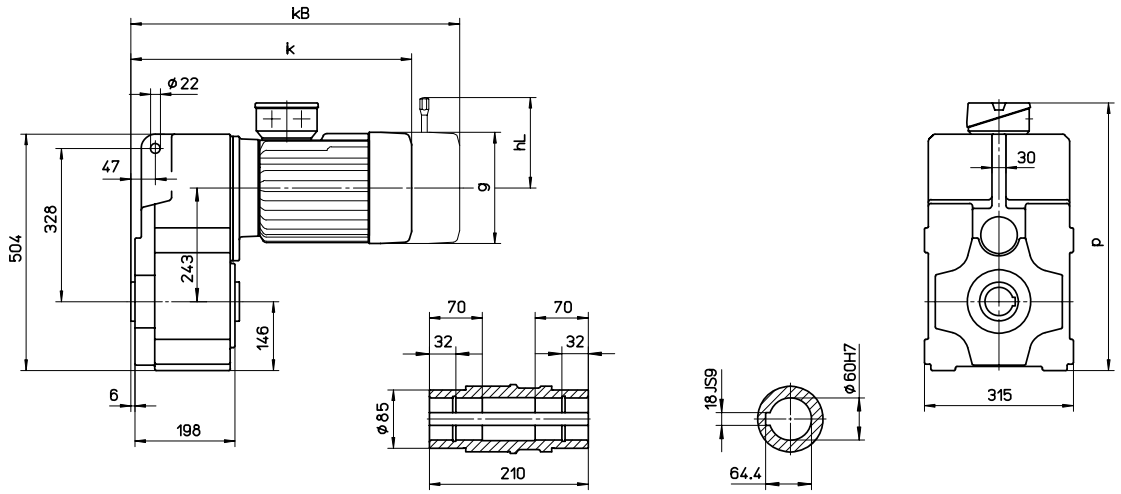


	k	kB	kC	kCB	g	p	hL
F5.3_ DL63/71	377	429	384	436	126	435	106
F5.3_ DA80	426	497	434	505	158	457	128
F5.2_ DA90L	439	504	446	510	176	471	168
F5.3_ DA90S	426	497	434	505	158	457	128
F5.3_ DA90L	473	537	479	543	176	471	168
F5.2_ DA100L	439	504	446	510	176	471	168
F5.3_ DA100L	473	537	479	543	176	471	168
F5.2_ DA100LX	477	551	484	557	195	478	176
F5.2_ DA112	477	551	484	557	195	478	176
F5.2_ DA132	581	680	589	688	245	510	225
F5.2_ DA160	705	825	712	832	311	572	256
F5.2_ DA180M	705	825	712	832	311	572	256

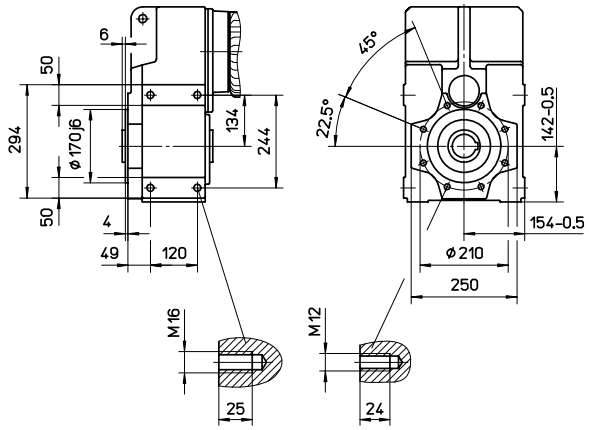
Las cotas kB y hL conciernen a los motorreductores con freno.

Motorreductores de ejes paralelos F

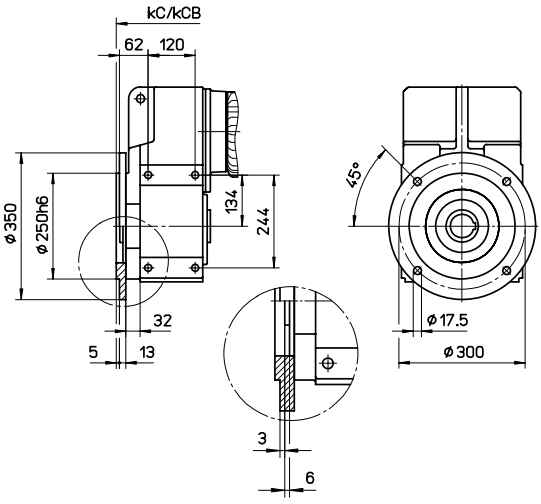
F6.2A, F6.3A Versión con eje hueco



F6.2B, F6.3B Versión con brida B14



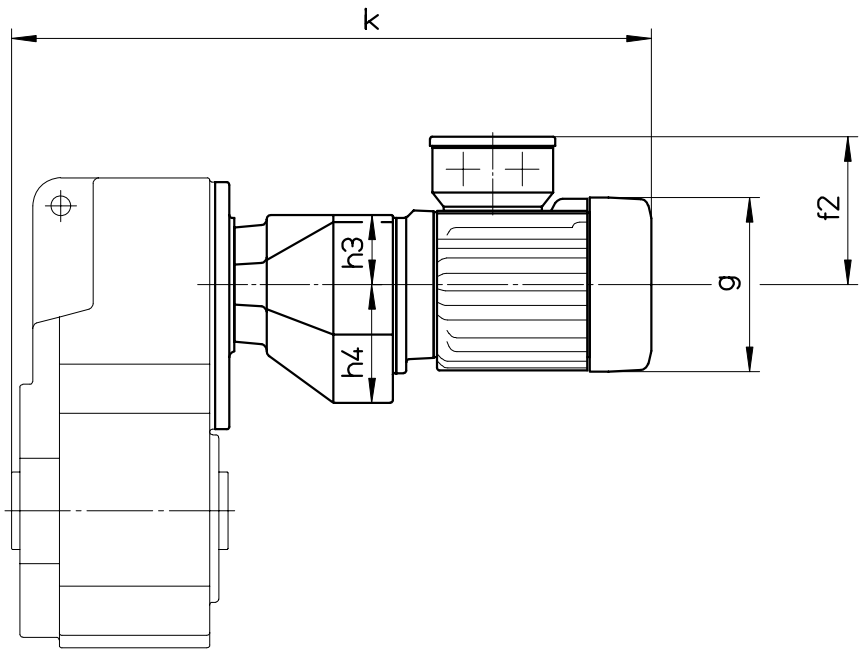
F6.2C, F6.3C Versión con brida B5



	k	kB	kC	kCB	g	p	hL
F6.3_ DA80	451	522	460	531	158	524	128
F6.3_ DA90S	451	522	460	531	158	524	128
F6.3_ DA90L	498	563	506	570	176	538	168
F6.3_ DA100L	498	563	506	570	176	538	168
F6.2_ DA100LX	497	571	505	578	195	545	176
F6.3_ DA100LX	536	610	544	617	195	545	176
F6.2_ DA112	497	571	505	578	195	545	176
F6.3_ DA112	536	610	544	617	195	545	176
F6.2_ DA132	601	700	610	709	245	577	225
F6.2_ DA160	725	845	733	853	311	639	256
F6.2_ DA180M	725	845	733	853	311	639	256
F6.2_ DA180L	766	905	774	913	356	680	335
F6.2_ DA200L	766	905	774	913	356	680	335

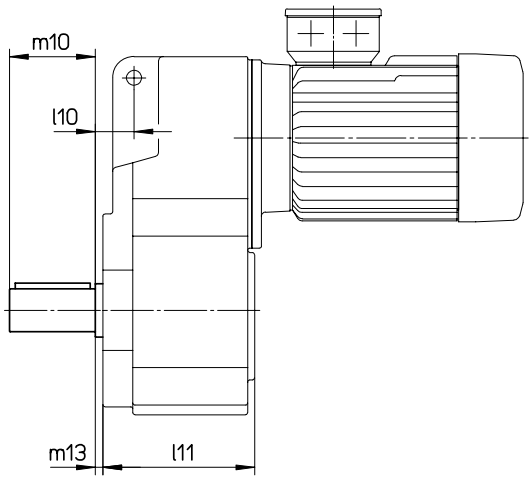
Las cotas kB y hL conciernen a los motorreductores con freno.

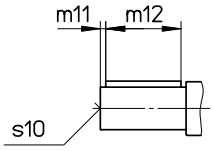
Motorreductores de ejes paralelos F para muy baja velocidad

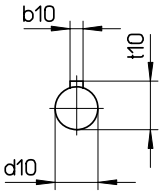


	k	g	f2	h3	h4
F3.2/G1.2A DL63/71	446	126	113	50	84
F4.2/G1.2A DL63/71	467	126	113	50	84
F5.3/G1.2A DL63/71	521	126	113	50	84
F6.3/G1.2A DL63/71	547	126	113	50	84
F6.3/G1.2A DA80	596	158	135		

Reductores de ejes paralelos F
Ejecución con eje sólido

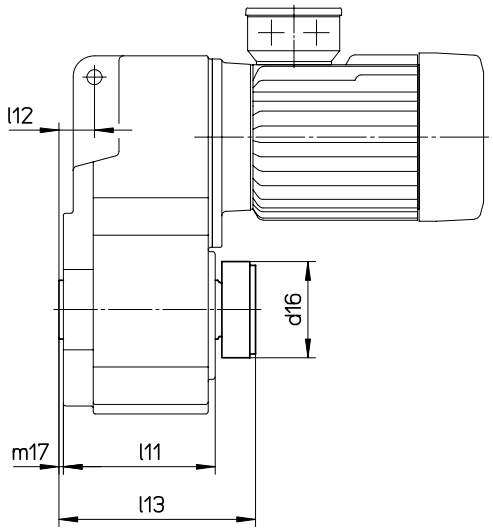


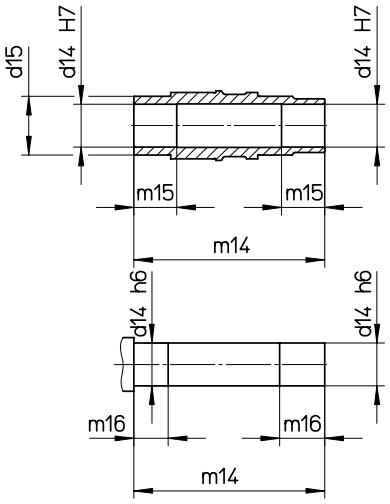




Reductor	d10	m10	m11	m12	b10	t10	s10	l10	l11	m13
F3	30	60	5	50	8	33	M10	27	115	6
F4	40	80	5	70	12	43	M16	36	142	7
F5	50	100	10	80	14	53.5	M16	42	170	8
F6	60	120	10	100	18	64	M20	50	198	9

Reductores de ejes paralelos F
Ejecución con eje hueco y disco de apriete

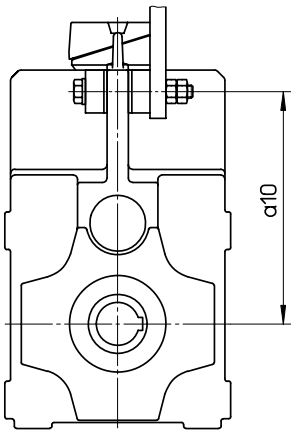


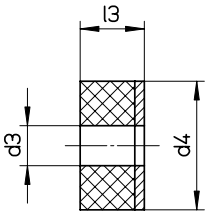


Reductor	*)	d14	d15	d16	m14	m15	m16	m17	l11	l12	l13
F3	**DA100L**	30	45	72	147	30	32	4	115	25	155
F4	**DA112M**	40	55	90	178	40	42	4	142	33	185
F5	**DA132MX**	50	70	110	212	50	52	5	170	39	220
F6	**DA180M**	60	85	138	242	60	62	6	198	47	250

***) mayor tamaño de motor posible**

Reductores de ejes paralelos F
Elementos de goma





Reductor	a10	d3	d4	l3
F3	182	12.5	30	15
F4	217	12.5	40	20
F5	270	21	50	30
F6	328	21	60	30

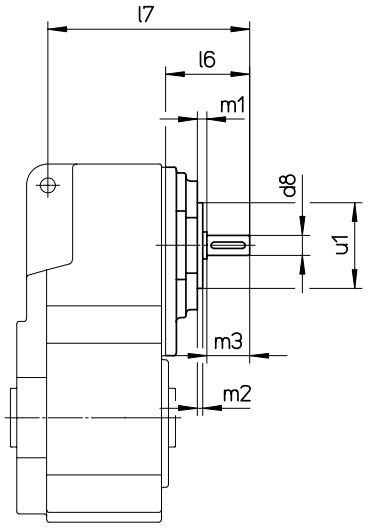
Reductores de ejes paralelos F

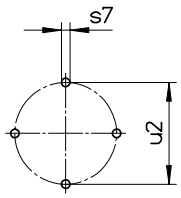
i	M [Nm]	n2 [1/min] | Pmax [kW]				Adaptador motor -M							
	cG=1	n1=2800	n1=1400	n1=930	n1=700								
F3.2						IEC	IEC	IEC	IEC	IEC			
70.09	245	40|1.0	20|0.51	13|0.34	10.0|0.25	71	80				S4C	S4D	
58.41	280	48|1.4	24|0.71	16|0.47	12|0.35	71	80	90			S4C	S4D	S4E
45.50	300	62|1.9	31|0.96	20|0.64	15|0.48	71	80	90	100	112	S4C	S4D	S4E
36.89	300	76|2.4	38|1.2	25|0.79	19|0.59	71	80	90	100	112	S4C	S4D	S4E
27.11	300	103|3.2	52|1.6	34|1.1	26|0.81	71	80	90	100	112	S4C	S4D	S4E
21.87	300	128|4.0	64|2.0	43|1.3	32|1.0	71	80	90			S4C	S4D	S4E
18.44	300	152|4.8	76|2.4	50|1.6	38|1.2	71	80	90	100	112	S4C	S4D	S4E
13.83	300	202|6.3	101|3.2	67|2.1	51|1.6	71	80	90	100	112	S4C	S4D	S4E
11.68	300	240|7.5	120|3.8	80|2.5	60|1.9	71	80	90	100	112	S4C	S4D	S4E
9.15	300	306|8.0	153|4.8	102|3.2	76|2.4			90	100	112			S4E
7.19	300	389|8.0	195|6.1	129|4.0	97|3.0			90	100	112			S4E
5.38	300	521|8.0	260|8.0	173|5.4	130|4.1			90	100	112			S4E
4.01	300	698|8.0	349|8.0	232|7.3	174|5.5			90	100	112			S4E
F3.3						IEC	IEC	IEC					
225.43	300	12|0.39	6.2|0.19	4.1|0.13	3.1|0.10	63	71	80	S4B	S4C	S4D		
176.25	300	16|0.50	7.9|0.25	5.3|0.17	4.0|0.12	63	71	80	S4B	S4C	S4D		
143.46	300	20|0.61	9.8|0.31	6.5|0.20	4.9|0.15	63	71	80	S4B	S4C	S4D		
106.57	300	26|0.82	13|0.41	8.7|0.27	6.6|0.21	63	71	80	S4B	S4C	S4D		
81.98	300	34|1.1	17|0.53	11|0.36	8.5|0.27	63	71	80	S4B	S4C	S4D		
69.68	300	40|1.3	20|0.63	13|0.42	10|0.31	63	71	80	S4B	S4C	S4D		
F4.2						IEC	IEC	IEC	IEC	IEC			
70.89	430	39|1.8	20|0.89	13|0.59	9.9|0.44	80	90				S4D	S4E	
55.61	530	50|2.8	25|1.4	17|0.92	13|0.70	80	90	100	112	132	S4D	S4E	S4F
45.22	635	62|4.1	31|2.1	21|1.4	15|1.0	80	90	100	112	132	S4D	S4E	S4F
33.550	715	83|6.3	42|3.1	28|2.1	21|1.6	80	90	100	112	132	S4D	S4E	S4F
28.600	715	98|7.3	49|3.7	33|2.4	24|1.8		90	100	112	132		S4E	S4F
23.15	540	121|6.9	60|3.4	40|2.3	30|1.7	80	90	100	112	132	S4D	S4E	S4F
17.42	715	161|12	80|6.0	53|4.0	40|3.0	80	90	100	112	132	S4D	S4E	S4F
13.52	715	207|16	104|7.8	69|5.2	52|3.9			100	112	132			S4F
11.85	690	236|17	118|8.5	79|5.7	59|4.3		90	100	112	132		S4E	S4F
8.71	715	322|18	161|12	107|8.0	80|6.0			100	112	132			S4F
7.10	715	395|18	197|15	131|9.8	99|7.4			100	112	132			S4F
5.35	715	524|18	262|18	174|13	131|9.8			100	112	132			S4F
4.02	715	696|18	348|18	231|17	174|13			100	112	132			S4F
F4.3						IEC	IEC	IEC	IEC				
681.24	580	4.1|0.25	2.1|0.12	1.4|0.08	1.0|0.06	63	71	80		S4B	S4C	S4D	
599.36	580	4.7|0.28	2.3|0.14	1.6|0.09	1.2|0.07	63	71	80		S4B	S4C	S4D	
481.96	580	5.8|0.35	2.9|0.18	1.9|0.12	1.5|0.09	63	71	80		S4B	S4C	S4D	
401.64	580	7.0|0.42	3.5|0.21	2.3|0.14	1.7|0.11	63	71	80	90	S4B	S4C	S4D	S4E
308.95	580	9.1|0.55	4.5|0.27	3.0|0.18	2.3|0.14	63	71	80	90	S4B	S4C	S4D	S4E
216.27	580	13|0.78	6.5|0.39	4.3|0.26	3.2|0.20	63	71	80		S4B	S4C	S4D	
177.43	580	16|0.96	7.9|0.48	5.2|0.32	3.9|0.24	63	71	80		S4B	S4C	S4D	
140.35	580	20|1.2	10.0|0.60	6.6|0.40	5.0|0.30	63	71	80	90	S4B	S4C	S4D	S4E
115.86	580	24|1.5	12|0.73	8.0|0.49	6.0|0.37	63	71	80	90	S4B	S4C	S4D	S4E
88.21	580	32|1.9	16|0.96	11|0.64	7.9|0.48	63	71	80	90	S4B	S4C	S4D	S4E
69.09	580	41|2.5	20|1.2	13|0.81	10|0.61	63	71	80	90	S4B	S4C	S4D	S4E
52.68	580	53|3.0	27|1.6	18|1.1	13|0.80	63	71	80		S4B	S4C	S4D	
37.92	580	74|3.0	37|2.2	25|1.5	18|1.1	63	71	80		S4B	S4C	S4D	

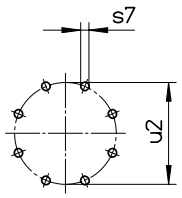
Reductores de ejes paralelos F

i	M [Nm]	n2 [1/min] | Pmax [kW]				Adaptador motor -M							
	cG=1	n1=2800	n1=1400	n1=930	n1=700								
F5.2						IEC	IEC	IEC	IEC	IEC			
70.89	905	39|3.8	20|1.9	13|1.2	9.9|0.94	90	100	112			S4E		
58.06	1020	48|5.2	24|2.6	16|1.7	12|1.3	90	100	112			S4E		
43.450	1260	64|8.5	32|4.3	21|2.8	16|2.1	90	100	112	132	160	S4E	S4F	
36.850	1420	76|11	38|5.7	25|3.8	19|2.8	90	100	112	132	160	S4E	S4F	
29.79	1500	94|15	47|7.4	31|4.9	23|3.7	90	100	112	132	160	S4E	S4F	
23.15	1020	121|13	60|6.4	40|4.3	30|3.2	90	100	112	132	160	S4E	S4F	
18.33	1500	153|24	76|12	51|8.0	38|6.0	90	100	112	132	160	S4E	S4F	
14.300	1500	196|31	98|15	65|10	49|7.7	90	100	112	132	160	S4E	S4F	
12.15	1500	231|36	115|18	77|12	58|9.1	90	100	112	132	160	S4E	S4F	
8.800	1360	318|37	159|23	106|15	80|11	90	100	112	132	160	S4E	S4F	
7.12	1500	393|37	197|31	131|21	98|15				132	160		S4F	
5.79	1380	484|37	242|35	161|23	121|18				132	160		S4F	
F5.3						IEC	IEC	IEC	IEC	IEC			
735.37	1240	3.8|0.50	1.9|0.25	1.3|0.16	0.95|0.12	71	80				S4C	S4D	
593.46	1350	4.7|0.67	2.4|0.33	1.6|0.22	1.2|0.17	71	80				S4C	S4D	
490.25	1350	5.7|0.81	2.9|0.40	1.9|0.27	1.4|0.20	71	80	90			S4C	S4D	S4E
380.59	1350	7.4|1.0	3.7|0.52	2.4|0.34	1.8|0.26	71	80	90	100	112	S4C	S4D	S4E
309.63	1350	9.0|1.3	4.5|0.64	3.0|0.42	2.3|0.32	71	80	90	100	112	S4C	S4D	S4E
221.16	1350	13|1.8	6.3|0.89	4.2|0.59	3.2|0.45	71	80				S4C	S4D	
179.70	1350	16|2.2	7.8|1.1	5.2|0.73	3.9|0.55	71	80	90			S4C	S4D	S4E
149.98	1350	19|2.6	9.3|1.3	6.2|0.87	4.7|0.66	71	80	90	100	112	S4C	S4D	S4E
114.11	1350	25|3.5	12|1.7	8.2|1.1	6.1|0.87	71	80	90			S4C	S4D	S4E
90.31	1350	31|4.4	16|2.2	10|1.5	7.8|1.1	71	80	90	100	112	S4C	S4D	S4E
82.94	1350	34|4.8	17|2.4	11|1.6	8.4|1.2			90					S4E
73.54	1350	38|5.4	19|2.7	13|1.8	9.5|1.3	71	80	90	100	112	S4C	S4D	S4E
61.57	1350	45|6.4	23|3.2	15|2.1	11|1.6			90					S4E
54.74	1350	51|7.2	26|3.6	17|2.4	13|1.8			90					S4E
40.64	1350	69|8.0	34|4.9	23|3.2	17|2.4			90					S4E
F6.2						IEC	IEC	IEC	IEC	IEC			
72.11	1750	39|7.1	19|3.6	13|2.4	9.7|1.8	100	112						
53.900	1950	52|11	26|5.3	17|3.5	13|2.6	100	112	132	160		S4F		
46.200	2400	61|15	30|7.6	20|5.1	15|3.8	100	112	132	160		S4F		
37.58	2490	75|19	37|9.7	25|6.5	19|4.9	100	112	132	160		S4F		
28.97	2570	97|26	48|13	32|8.6	24|6.5	100	112	132	160		S4F		
21.750	2440	129|33	64|16	43|11	32|8.2	100	112	132	160		S4F		
18.260	2600	153|42	77|21	51|14	38|10	100	112	132	160		S4F		
14.40	2750	194|56	97|28	65|19	49|14			132	160	180	S4F		
11.73	2290	239|57	119|29	79|19	60|14	100	112	132	160	180	S4F		
8.91	2620	314|60	157|43	104|29	79|22			132	160	180	S4F		
7.17	2750	391|60	195|56	130|37	98|28					180			
5.80	2500	483|60	241|60	160|42	121|32					180			
F6.3						IEC	IEC	IEC	IEC	IEC			
682.73	2360	4.1|1.0	2.1|0.51	1.4|0.34	1.0|0.25	80					S4D		
568.94	2750	4.9|1.4	2.5|0.71	1.6|0.47	1.2|0.35	80	90				S4D	S4E	
443.18	2750	6.3|1.8	3.2|0.91	2.1|0.60	1.6|0.45	80	90	100	112	132	S4D	S4E	S4F
359.33	2750	7.8|2.2	3.9|1.1	2.6|0.74	1.9|0.56	80	90	100	112	132	S4D	S4E	S4F
264.11	2750	11|3.0	5.3|1.5	3.5|1.0	2.7|0.76	80	90	100	112	132	S4D	S4E	S4F
213.03	2750	13|3.8	6.6|1.9	4.4|1.3	3.3|0.95	80	90				S4D	S4E	
179.67	2750	16|4.5	7.8|2.2	5.2|1.5	3.9|1.1	80	90	100	112	132	S4D	S4E	S4F
134.750	2750	21|6.0	10|3.0	6.9|2.0	5.2|1.5	80	90	100	112	132	S4D	S4E	S4F
113.79	2750	25|7.1	12|3.5	8.2|2.4	6.2|1.8	80	90	100	112	132	S4D	S4E	S4F
89.14	2750	31|9.0	16|4.5	10|3.0	7.9|2.3		90	100	112	132		S4E	S4F
70.070	2750	40|11	20|5.7	13|3.8	10.0|2.9		90	100	112	132		S4E	S4F
52.360	2750	53|15	27|7.7	18|5.1	13|3.8		90	100	112	132		S4E	S4F

Reductores de ejes paralelos F



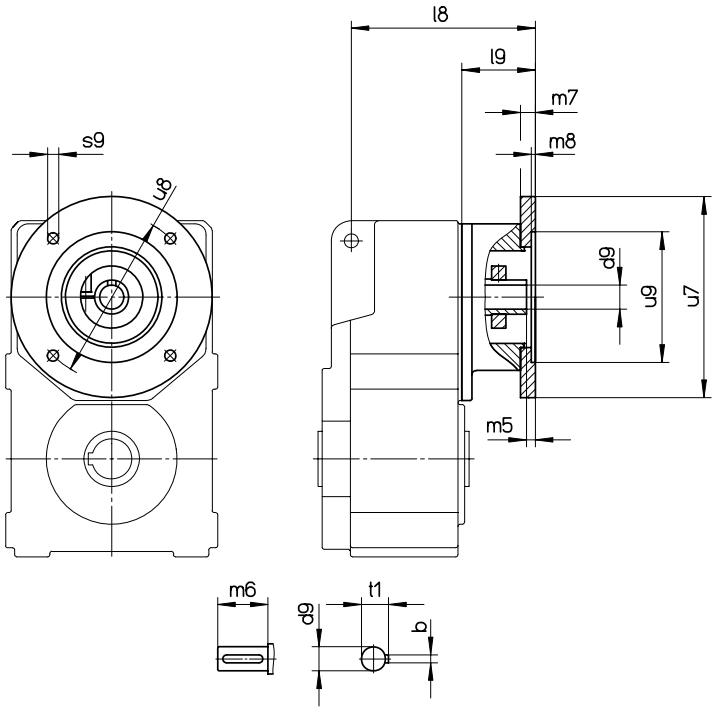




F5.2-W
F6.2-W

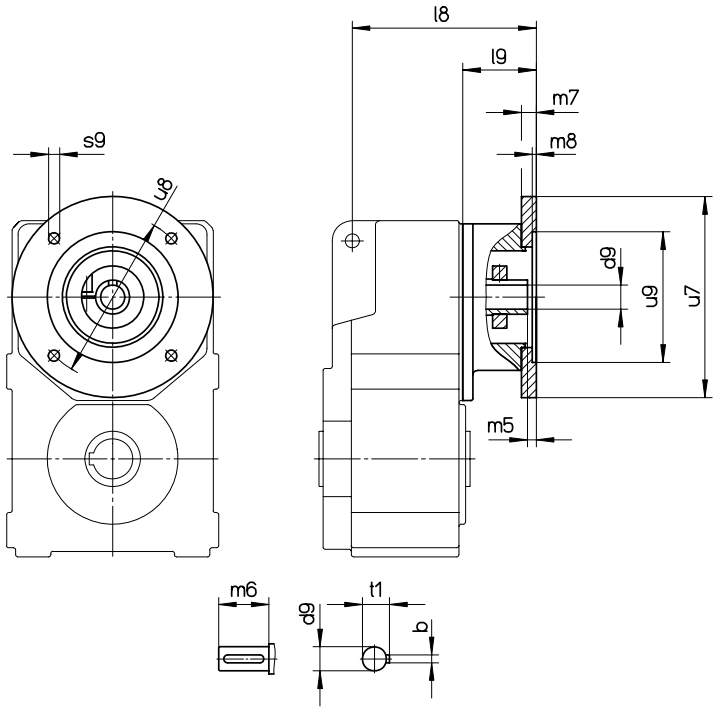
Reductor	d8	m3	m1	m2	u1	u2	s7	l6	l7
F3.2-W	19	40	9	5	80	95	M8	84.5	175
F3.3-W	14	40	8	5	54	67	M6	94.5	185
F4.2-W	24	50	9	5	80	95	M8	88.5	198.5
F4.3-W	14	40	8	5	54	67	M6	89.5	199.5
F5.2-W	28	60	11	6	125	150	M10	119.5	252.5
F5.3-W	19	40	9	5	80	95	M8	104	237
F6.2-W	38	80	11	6	125	150	M10	131.5	285
F6.3-W	24	50	9	5	80	95	M8	114.5	265

Reductores de ejes paralelos F con adaptador para motores IEC



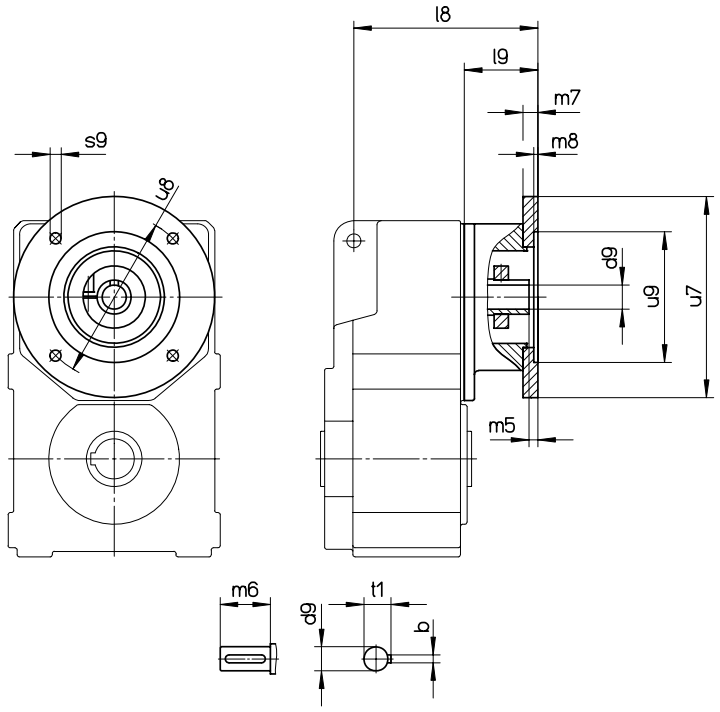
Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m7	m8	l8	l9
F3.2	**-M IEC71B14G**	140	115	95	9	14	30	5	16	5	15	4	149	58.5
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14G	160	130	110	9	19	40	6	21.5	7	15	4.5	159	68.5
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14K	140	115	95	9	24	50	8	27	9	15	4	170	79.5
	-M IEC90B14G	160	130	110	9							4.5		
	-M IEC90B5	200	165	130	11							4.5		
	-M IEC100B14K	160	130	110	9	28	60	8	31	9	15	4.5	178	87.5
	-M IEC100B14G	200	165	130	11							4.5		
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14K	160	130	110	9	28	60	8	31	9	15	4.5	178	87.5
	-M IEC112B14G	200	165	130	11							4.5		
	-M IEC112B5	250	215	180	14							5		
F3.3	**-M IEC63B14G**	120	100	80	7	11	23	4	12.5	4.5	12	4	154	46.5
	-M IEC63B5	140	115	95	9							4		
	-M IEC71B14G	140	115	95	9	14	30	5	16	5	12	4	158	50.5
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14K	120	100	80	7	19	40	6	21.5	7	12	4	167	59.5
	-M IEC80B14G	160	130	110	9							4.5		
	-M IEC80B5	200	165	130	11							4.5		

Reductores de ejes paralelos F con adaptador para motores IEC



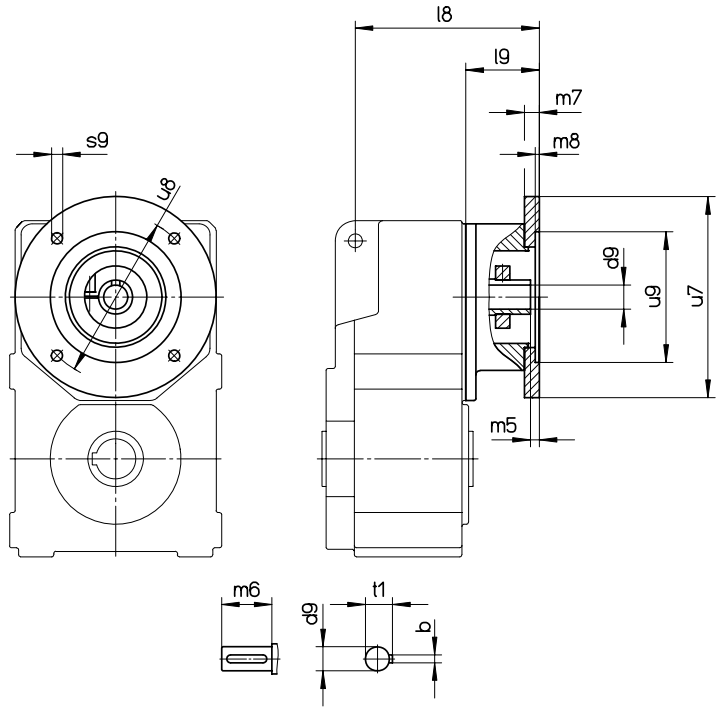
Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m7	m8	l8	l9
F4.2	**-M IEC80B14G**	160	130	110	9	19	40	6	21.5	7	15	4.5	117	63
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14G	160	130	110	9	24	50	8	27	9	15	4.5	184	74
	-M IEC90B5	200	165	130	11							4.5		
	-M IEC100B14K	160	130	110	9	28	60	8	31	9	15	4.5	192	82
	-M IEC100B14G	200	165	130	11							4.5		
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14K	160	130	110	9	28	60	8	31	9	15	4.5	192	82
	-M IEC112B14G	200	165	130	11							4.5		
	-M IEC112B5	250	215	180	14							5		
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	15	5	216	106
F4.3	**-M IEC63B14G**	120	100	80	7	11	23	4	12.5	4.5	12	4	168.5	43
	-M IEC63B5	140	115	95	9							4		
	-M IEC71B14G	140	115	95	9	14	30	5	16	5	12	4	172.5	47
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14K	120	100	80	7	19	40	6	21.5	7	12	4	181.5	56
	-M IEC80B14G	160	130	110	9							4.5		
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14K	140	115	95	9	24	40	8	27	9	12	4	194	68.5
	-M IEC90B14G	160	130	110	9							4.5		
	-M IEC90B5	200	165	130	11							4.5		

Reductores de ejes paralelos F con adaptador para motores IEC



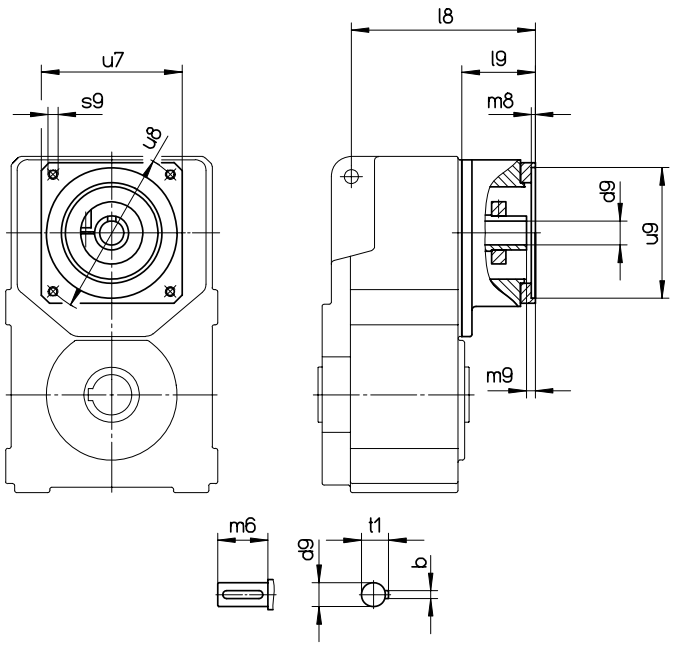
Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m7	m8	l8	l9
F5.2	**-M IEC90B5**	200	165	130	11	24	50	8	27	9	18	4.5	210.5	77.5
	-M IEC100B14G	200	165	130	11	28	60	8	31	9	18	4.5	220.5	87.5
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14G	200	165	130	11	28	60	8	31	9	18	4.5	220.5	87.5
	-M IEC112B5	250	215	180	14							5		
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	18	5	241.5	108.5
	-M IEC160B5	350	300	250	18	42	110	12	45	14	18	6	271.5	138.5
F5.3	**-M IEC71B14G**	140	115	95	9	14	30	5	16	5	15	4	211	58.5
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14G	160	130	110	9	19	40	6	21.5	7	15	4.5	221	68.5
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14K	140	115	95	9	24	50	8	27	9	15	4	232	79.5
	-M IEC90B14G	160	130	110	9							4.5		
	-M IEC90B5	200	165	130	11							4.5		
	-M IEC100B14K	160	130	110	9	28	60	8	31	9	15	4.5	240	87.5
	-M IEC100B14G	200	165	130	11							4.5		
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14K	160	130	110	9	28	60	8	31	9	15	4.5	240	87.5
	-M IEC112B14G	200	165	130	11							4.5		
	-M IEC112B5	250	215	180	14							5		

Reductores de ejes paralelos F con adaptador para motores IEC



Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m7	m8	l8	l9
F6.2	**-M IEC100B5**	250	215	180	14	28	60	8	31	9	20	5	233.5	80
	-M IEC112B5	250	215	180	14	28	60	8	31	9	20	5	233.5	80
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	20	5	255.5	102
	-M IEC160B5	350	300	250	18	42	110	12	45	14	20	6	285.5	132
	-M IEC180B5	350	300	250	18	48	110	14	51.5	17	20	6	285.5	132
F6.3	**-M IEC80B14G**	160	130	110	9	19	40	6	21.5	7	15	4.5	239.5	63
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14G	160	130	110	9	24	50	8	27	9	15	4.5	250.5	74
	-M IEC90B5	200	165	130	11							4.5		
	-M IEC100B14K	160	130	110	9	28	60	8	31	9	15	4.5	258.5	82
	-M IEC100B14G	200	165	130	11							4.5		
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14K	160	130	110	9	28	60	8	31	9	15	4.5	258.5	82
	-M IEC112B14G	200	165	130	11							4.5		
	-M IEC112B5	250	215	180	14							5		
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	15	5	282.5	106

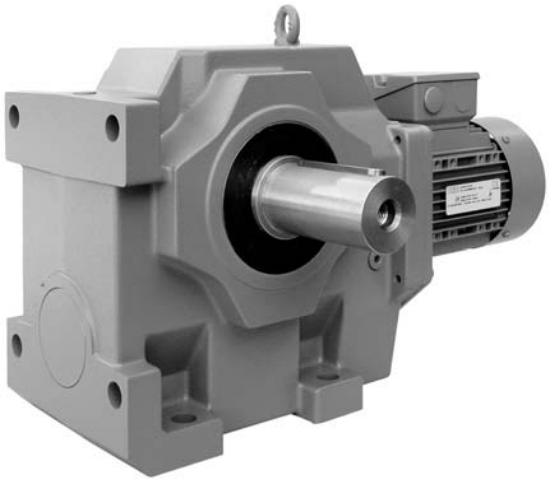
Reductores de ejes paralelos F con adaptador para servomotores



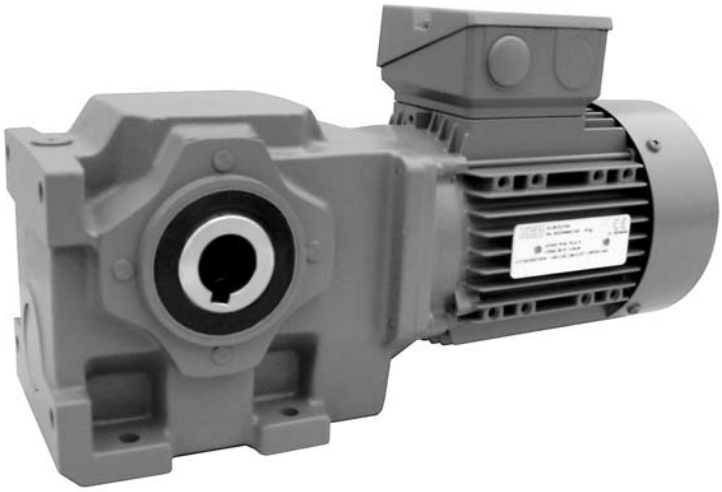
Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m8	l8	l9
F3.2	**-M S4C**	92	100	80	M6	14	30	5	16	5	4	149	58.5
	-M S4D	110	115	95	M8	19	40	6	21.5	7	4	159	68.5
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	170	79.5
F3.3	**-M S4B**	70	75	60	M5	11	23	4	12.2	4.5	3.5	154	46.5
	-M S4C	92	100	80	M6	14	30	5	16	5	4	158	50.5
	-M S4D	110	115	95	M8	19	40	6	21.5	7	4	167	59.5
F4.2	**-M S4D**	110	115	95	M8	19	40	6	21.5	7	4	117	63
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	184	74
	-M S4F	190	215	180	M12	32	58	10	35	9	5	192	82
F4.3	**-M S4B**	70	75	60	M5	11	23	4	12.2	4.5	3.5	168.5	43
	-M S4C	92	100	80	M6	14	30	5	16	5	4	172.5	47
	-M S4D	110	115	95	M8	19	40	6	21.5	7	4	181.5	56
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	194	68.5
F5.2	**-M S4E**	140	165	130	M10	24	50	8	27	9	4.5	210.5	77.5
	-M S4F	190	215	180	M12	32	58	10	35	9	5	220.5	87.5
F5.3	**-M S4C**	92	100	80	M6	14	30	5	16	5	4	211	58.5
	-M S4D	110	115	95	M8	19	40	6	21.5	7	4	221	68.5
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	232	79.5
F6.2	**-M S4F**	190	215	180	M12	32	58	10	35	9	5	233.5	80
F6.3	**-M S4D**	110	115	95	M8	19	40	6	21.5	7	4	239.5	63
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	250.5	74
	-M S4F	190	215	180	M12	32	58	10	35	9	5	258.5	82

Motorreductores de tornillo sin fin S

S4.3AV DL71G4

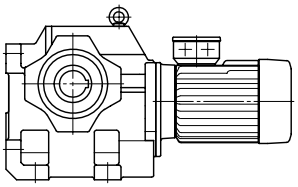
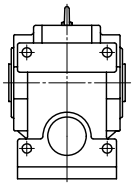


S1.2B DL71K4

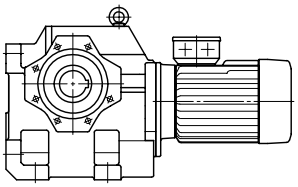
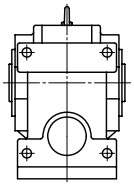


S0.2A DL63G4

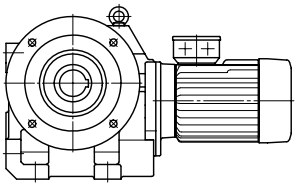
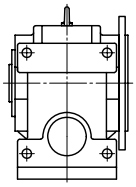
Motorreductores de tornillo sin fin S

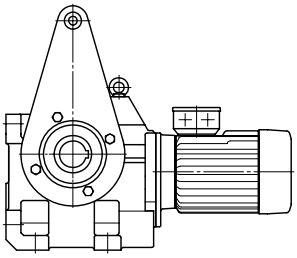
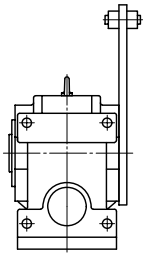
Versión con eje hueco
con eje hueco y chavetero
Ejemplo: S2.2**A** DA90L4

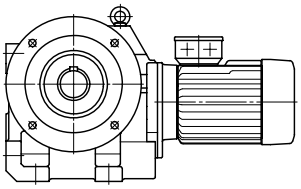
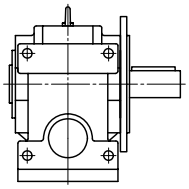
Versión con brida B14
con eje hueco y chavetero
Ejemplo: S4.3**B** DL63G4

Versión con brida B5
con eje hueco y chavetero
Ejemplo: S3.2**C** DA100L4

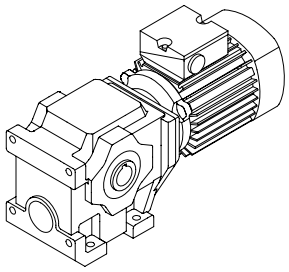



Versión con eje hueco
con eje hueco y chavetero
con brazo de par T1
Ejemplo: S1.2**BT1** DA80K

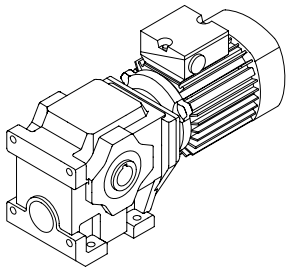
Versión con brida B5
con eje sólido y chaveta
Ejemplo: S4.2**CV** DA100LX4

Motorreductores de tornillo sin fin S



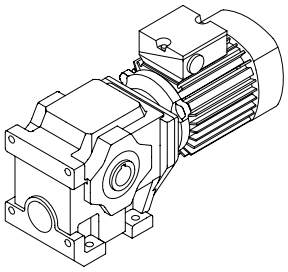
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.12									
	0.49	1720	0.8	2903.7	15300	12600	**S4.2/G1.2A DL63K4**	115/116	53
	0.54	1560	0.9	2621.1	15300	12100	**S4.2/G1.2B DL63K4**		53
	0.59	1410	1.0	2382.2	15300	11800	**S4.2/G1.2C DL63K4**		57
	0.68	1230	1.1	2073.4	15300	11300			
	0.75	1120	1.3	1884.4	15300	11000			
	0.82	1020	1.4	1711.5	15300	10800			
	0.91	925	1.5	1555.6	15300	10500			
	1.1	780	1.8	1303.1	15300	10100			
	1.2	710	2.0	1184.4	15300	9960			
	1.4	615	2.3	1020.7	15300	9710			
	1.5	560	2.5	927.68	15300	9570			
	0.76	1100	1.0	1857.9	15300	11000	**S4.3A DL63K4**	115	51
	0.86	975	1.2	1634.6	15300	10600	**S4.3B DL63K4**		51
	1.1	785	1.5	1314.4	15300	10200	**S4.3C DL63K4**		54
	1.3	655	1.8	1095.4	15300	9820			
	1.7	510	2.3	842.59	15300	9440			
	0.84	960	0.8	1686.0	10300	14700	**S3.2/G1.2A DL63K4**	114/116	36
	0.92	875	0.9	1532.4	10300	14400	**S3.2/G1.2B DL63K4**		36
	1.0	795	1.0	1391.8	10300	14200	**S3.2/G1.2C DL63K4**		38
	1.1	725	1.1	1265.0	10300	14000			
	1.3	610	1.2	1059.7	10300	13600			
	1.5	555	1.4	963.11	10300	13400			
	1.7	480	1.6	830.01	10300	13200			
	1.9	440	1.7	754.37	10300	13000			
	2.3	355	2.0	611.11	10300	12800	**S3.3A DL63K4**	114	34
	3.0	280	2.7	477.78	10300	12500	**S3.3B DL63K4**		34
							S3.3C DL63K4		36
	4.9	172	1.4	190.000	6060	4340	**S2.2A DL63G6**	113	20
	6.0	141	2.0	153.33	6060	4210	**S2.2B DL63G6**		20
	7.3	119	2.9	126.67	6060	4130	**S2.2C DL63G6**		22
	7.4	117	2.1	190.000	6060	4120	**S2.2A DL63K4**	113	20
							S2.2B DL63K4		20
							S2.2C DL63K4		22
	2.9	205	0.9	490.000	4680	3630	**S1.2A DL63K4**	112	14
	3.3	187	1.0	431.11	4680	3520	**S1.2B DL63K4**		14
	4.1	156	1.1	346.67	4680	3360	**S1.2C DL63K4**		15
	4.9	132	1.3	288.89	4680	3240			
	6.3	104	1.7	222.22	4680	3090			
	7.9	106	1.5	177.625	4680	3100			
	9.0	95	2.0	156.28	4680	3050			
	11	78	2.4	125.67	4680	2960			
	13	65	2.8	104.72	4680	2890			

Motorreductores de tornillo sin fin S



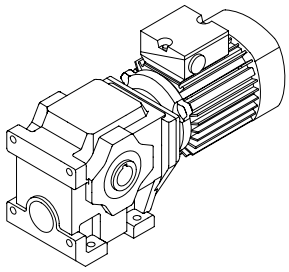
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.12									
	5.9	107	0.8	238.33	2720	1810	**S0.2A DL63K4**	111	6
	7.6	86	1.0	186.33	2660	1680	**S0.2C DL63K4**		7
	9.3	72	1.2	151.67	2590	1590			
	13	57	1.5	112.67	2450	1490			
	16	52	1.7	85.56	2230	1470			
	21	42	2.1	66.89	2130	1400			
	26	34	2.4	54.44	2050	1350			
	35	26	3.1	40.44	1910	1300			
	45	20	3.8	31.11	1800	1270			
	53	18	4.3	26.44	1730	1250			
	68	14	5.0	20.67	1620	1230			
	88	11	6.0	16.000	1510	1210			
	102	10	7.2	13.85	1430	1250			
	130	7.9	8.5	10.83	1340	1230			
	168	6.2	10.0	8.38	1240	1210			
	220	4.8	11.6	6.42	1150	1190			
	284	3.7	11.1	4.97	1060	1180			
0.18									
	0.68	1850	0.8	2073.4	15300	12900	**S4.2/G1.2A DL63G4**	115/116	53
	0.75	1680	0.8	1884.4	15300	12500	**S4.2/G1.2B DL63G4**		53
	0.82	1530	0.9	1711.5	15300	12100	**S4.2/G1.2C DL63G4**		57
	0.91	1390	1.0	1555.6	15300	11700			
	1.1	1170	1.2	1303.1	15300	11100			
	1.2	1060	1.3	1184.4	15300	10900			
	1.4	920	1.5	1020.7	15300	10500			
	1.5	835	1.7	927.68	15300	10300			
	0.86	1460	0.8	1634.6	15300	11900	**S4.3A DL63G4**	115	51
	1.1	1180	1.0	1314.4	15300	11200	**S4.3B DL63G4**		51
	1.3	985	1.2	1095.4	15300	10700	**S4.3C DL63G4**		54
	1.7	760	1.5	842.59	15300	10100			
	2.4	540	2.2	589.81	15300	9520			
	2.9	445	2.7	483.89	15300	9280			
	1.3	915	0.8	1059.7	10300	14600	**S3.2/G1.2A DL63G4**	114/116	36
	1.5	835	0.9	963.11	10300	14300	**S3.2/G1.2B DL63G4**		36
	1.7	720	1.1	830.01	10300	13900	**S3.2/G1.2C DL63G4**		38
	1.9	655	1.2	754.37	10300	13700			
	2.3	535	1.3	611.11	10300	13300	**S3.3A DL63G4**	114	34
	3.0	425	1.8	477.78	10300	13000	**S3.3B DL63G4**		34
	3.6	350	2.2	388.89	10300	12700	**S3.3C DL63G4**		36
	4.9	265	2.8	288.89	10300	12500			
	7.4	181	2.8	190.000	10300	12200	**S3.2A DL63G4**	114	31
							S3.2B DL63G4		31
							S3.2C DL63G4		33
	4.9	260	0.9	190.000	6060	4680	**S2.2A DL71K6**	113	20
	6.0	210	1.3	153.33	6060	4500	**S2.2B DL71K6**		20
	7.3	178	1.9	126.67	6060	4360	**S2.2C DL71K6**		22
	7.4	176	1.4	190.000	6060	4350	**S2.2A DL63G4**	113	20
	9.2	146	2.0	153.33	6060	4230	**S2.2B DL63G4**		20
	11	122	2.8	126.67	6060	4140	**S2.2C DL63G4**		22

Motorreductores de tornillo sin fin S



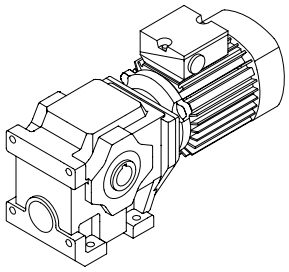
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.18									
	4.1	235	0.8	346.67	4680	3770	**S1.2A DL63G4**	112	14
	4.9	198	0.9	288.89	4680	3580	**S1.2B DL63G4**		14
	6.3	156	1.1	222.22	4680	3360	**S1.2C DL63G4**		15
	7.9	159	1.0	177.625	4680	3380			
	9.0	143	1.3	156.28	4680	3290			
	11	117	1.6	125.67	4680	3160			
	13	98	1.9	104.72	4680	3060			
	18	76	2.3	80.56	4680	2950			
	9.3	108	0.8	151.67	2140	1820	**S0.2A DL63G4**	111	6
	13	85	1.0	112.67	2100	1670	**S0.2C DL63G4**		7
	16	79	1.1	85.56	1900	1630			
	21	62	1.4	66.89	1880	1530			
	26	51	1.6	54.44	1840	1460			
	35	39	2.0	40.44	1750	1380			
	45	31	2.5	31.11	1670	1330			
	53	26	2.8	26.44	1620	1300			
	68	21	3.4	20.67	1530	1270			
	88	17	4.0	16.000	1440	1240			
	102	15	4.8	13.85	1360	1310			
	130	12	5.7	10.83	1280	1270			
	168	9.2	6.7	8.38	1200	1240			
	220	7.1	7.7	6.42	1120	1220			
	284	5.6	7.4	4.97	1040	1200			
0.25									
	1.1	1650	0.9	1303.1	15300	12400	**S4.2/G1.2A DL71K4**	115/116	53
	1.2	1500	0.9	1184.4	15300	12000	**S4.2/G1.2B DL71K4**		53
	1.4	1300	1.1	1020.7	15300	11500	**S4.2/G1.2C DL71K4**		57
	1.5	1180	1.2	927.68	15300	11200			
	1.3	1390	0.8	1095.4	15300	11700	**S4.3A DL71K4**	115	51
	1.6	1080	1.1	842.59	15300	10900	**S4.3B DL71K4**		51
	2.3	760	1.6	589.81	15300	10100	**S4.3C DL71K4**		54
	2.9	630	1.9	483.89	15300	9750			
	3.6	505	2.4	382.78	15300	9430			
	4.4	420	2.9	315.97	15300	9210			
	1.8	930	0.8	754.37	10300	14600	**S3.2/G1.2A DL71K4**	114/116	36
							S3.2/G1.2B DL71K4		36
							S3.2/G1.2C DL71K4		38
	2.3	755	0.9	611.11	10300	14100	**S3.3A DL71K4**	114	34
	2.9	600	1.3	477.78	10300	13500	**S3.3B DL71K4**		34
	3.6	490	1.5	388.89	10300	13200	**S3.3C DL71K4**		36
	4.8	375	2.0	288.89	10300	12800			
	6.2	295	2.5	222.22	10300	12600			
	7.3	255	2.0	190.000	10300	12400	**S3.2A DL71K4**	114	31
	8.7	215	2.8	158.33	10300	12300	**S3.2B DL71K4**		31
							S3.2C DL71K4		33
	6.0	295	1.0	153.33	6060	4840	**S2.2A DL71G6**	113	20
	7.2	250	1.4	126.67	6060	4650	**S2.2B DL71G6**		20
							S2.2C DL71G6		23
	7.3	250	1.0	190.000	6060	4640	**S2.2A DL71K4**	113	20
	9.0	205	1.4	153.33	6060	4470	**S2.2B DL71K4**		20
	11	173	2.0	126.67	6060	4340	**S2.2C DL71K4**		22
	14	135	2.5	98.33	6060	4190			
	17	111	3.0	80.000	6060	4090			

Motorreductores de tornillo sin fin S



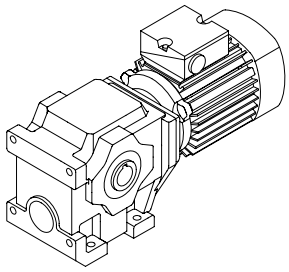
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.25									
	6.2	220	0.8	222.22	4680	3700	**S1.2A DL71K4**	112	14
	8.9	200	0.9	156.28	4680	3600	**S1.2B DL71K4**		14
	11	165	1.1	125.67	4680	3410	**S1.2C DL71K4**		15
	13	139	1.3	104.72	4680	3270			
	17	108	1.7	80.56	4680	3110			
	25	77	2.2	56.39	4680	2950			
	30	65	2.6	46.26	4680	2890			
	16	111	0.8	85.56	1520	1830	**S0.2A DL71K4**	111	6
	21	88	1.0	66.89	1580	1690	**S0.2C DL71K4**		7
	25	73	1.2	54.44	1590	1590			
	34	55	1.5	40.44	1570	1480			
	45	43	1.8	31.11	1530	1410			
	52	37	2.0	26.44	1490	1370			
	67	30	2.4	20.67	1430	1320			
	87	23	2.8	16.000	1360	1280			
	100	21	3.4	13.85	1290	1380			
	128	17	4.0	10.83	1230	1330			
	165	13	4.8	8.38	1160	1280			
	216	10	5.5	6.42	1080	1250			
	279	7.9	5.3	4.97	1010	1230			
0.37									
	1.5	1760	0.8	927.68	15300	12700	**S4.2/G1.2A DL71G4**	115/116	54
							S4.2/G1.2B DL71G4		54
							S4.2/G1.2C DL71G4		58
	2.3	1130	1.0	589.81	15300	11000	**S4.3A DL71G4**	115	52
	2.9	935	1.3	483.89	15300	10500	**S4.3B DL71G4**		52
	3.6	750	1.6	382.78	15300	10100	**S4.3C DL71G4**		55
	4.4	625	1.9	315.97	15300	9740			
	5.7	485	2.6	240.57	15300	9380			
	2.9	890	0.8	477.78	10300	14500	**S3.3A DL71G4**	114	34
	3.5	730	1.0	388.89	10300	14000	**S3.3B DL71G4**		34
	4.8	555	1.3	288.89	10300	13400	**S3.3C DL71G4**		36
	6.2	435	1.7	222.22	10300	13000			
	7.3	380	1.4	190.000	10300	12800	**S3.2A DL71G4**	114	31
	8.7	320	1.9	158.33	10300	12600	**S3.2B DL71G4**		31
	11	255	2.8	123.33	10300	12400	**S3.2C DL71G4**		33
	9.0	305	1.0	153.33	6060	4870	**S2.2A DL71G4**	113	20
	11	255	1.4	126.67	6060	4680	**S2.2B DL71G4**		20
	14	200	1.7	98.33	6060	4450	**S2.2C DL71G4**		23
	17	164	2.0	80.000	6060	4310			
	24	119	2.7	57.14	6060	4130			
	13	205	0.9	104.72	4680	3620	**S1.2A DL71G4**	112	15
	17	160	1.1	80.56	4680	3390	**S1.2B DL71G4**		15
	24	115	1.5	56.39	4610	3150	**S1.2C DL71G4**		16
	30	96	1.8	46.26	4440	3050			
	38	77	2.1	36.60	4220	2950			
	46	64	2.4	30.21	4050	2890			
	60	50	3.0	23.000	3790	2810			

Motorreductores de tornillo sin fin S



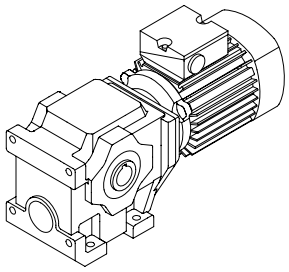
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.37									
	25	108	0.8	54.44	1160	1810	**S0.2A DL71G4**	111	7
	34	82	1.0	40.44	1240	1650	**S0.2C DL71G4**		8
	44	64	1.2	31.11	1270	1540			
	52	55	1.4	26.44	1270	1480			
	67	44	1.6	20.67	1260	1410			
	86	35	1.9	16.000	1230	1360			
	100	32	2.3	13.85	1150	1490			
	127	25	2.7	10.83	1120	1420			
	165	19	3.2	8.38	1070	1360			
	215	15	3.7	6.42	1020	1310			
	278	12	3.5	4.97	960	1270			
0.55									
	2.9	1380	0.9	483.89	15300	11700	**S4.3A DA80K4**	115	55
	3.6	1110	1.1	382.78	15300	11000	**S4.3B DA80K4**		55
	4.4	925	1.3	315.97	15300	10500	**S4.3C DA80K4**		58
	5.8	720	1.7	240.57	15300	9980			
	7.4	575	2.2	188.43	15300	9610			
	9.7	455	2.9	143.68	15300	9300			
	7.2	590	1.6	193.33	15300	9650	**S4.2A DA80K4**	115	51
	9.2	475	2.5	151.67	15300	9350	**S4.2B DA80K4**		51
							S4.2C DA80K4		54
	4.8	815	0.9	288.89	10300	14300	**S3.3A DA80K4**	114	37
	6.3	645	1.1	222.22	10300	13700	**S3.3B DA80K4**		37
							S3.3C DA80K4		39
	7.3	560	0.9	190.000	10300	13400	**S3.2A DA80K4**	114	34
	8.8	475	1.3	158.33	10300	13100	**S3.2B DA80K4**		34
	11	380	1.9	123.33	10300	12800	**S3.2C DA80K4**		36
	14	310	2.3	100.000	10300	12600			
	19	230	3.0	73.500	10300	12300			
	11	380	0.9	126.67	6060	5170	**S2.2A DA80K4**	113	24
	14	295	1.2	98.33	6060	4830	**S2.2B DA80K4**		24
	17	245	1.4	80.000	6060	4620	**S2.2C DA80K4**		26
	24	176	1.8	57.14	6060	4350			
	30	145	2.2	46.43	5940	4230			
	36	122	2.5	38.750	5710	4140			
	47	94	3.0	29.48	5360	4030			
	25	170	1.0	56.39	4020	3430	**S1.2A DA80K4**	112	18
	30	142	1.2	46.26	3950	3290	**S1.2B DA80K4**		18
	38	114	1.4	36.60	3830	3140	**S1.2C DA80K4**		19
	46	95	1.7	30.21	3710	3050			
	60	73	2.0	23.000	3530	2930			
	65	68	2.1	21.27	3480	2900			
	77	58	2.4	18.02	3350	2850			
	91	50	2.6	15.31	3230	2810			
	101	45	2.8	13.74	3150	2780			
	119	39	3.0	11.67	3030	2750			
	45	95	0.8	31.11	880	1730	**S0.2A DA80K4**	111	9
	53	82	0.9	26.44	940	1650	**S0.2C DA80K4**		11
	67	65	1.1	20.67	990	1550			
	87	51	1.3	16.000	1020	1460			
	100	47	1.6	13.85	950	1660			
	128	37	1.8	10.83	960	1550			
	166	29	2.2	8.38	950	1460			
	217	22	2.5	6.42	920	1390			
	280	17	2.4	4.97	890	1330			

Motorreductores de tornillo sin fin S



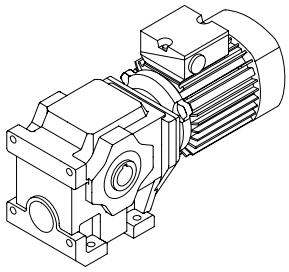
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.75									
	3.7	1490	0.8	382.78	15300	12000	**S4.3A DA80G4**	115	57
	4.5	1240	1.0	315.97	15300	11300	**S4.3B DA80G4**		57
	5.9	965	1.3	240.57	15300	10600	**S4.3C DA80G4**		61
	7.5	775	1.6	188.43	15300	10100			
	9.8	610	2.1	143.68	15300	9700			
	14	445	2.9	103.41	15300	9270			
	7.3	795	1.2	193.33	15300	10200	**S4.2A DA80G4**	115	53
	9.3	640	1.9	151.67	15300	9780	**S4.2B DA80G4**		53
	11	525	2.4	123.33	15300	9490	**S4.2C DA80G4**		56
	6.3	865	0.8	222.22	10300	14400	**S3.3A DA80G4**	114	39
							S3.3B DA80G4		39
							S3.3C DA80G4		41
	8.9	640	1.0	158.33	10300	13700	**S3.2A DA80G4**	114	36
	11	510	1.4	123.33	10300	13300	**S3.2B DA80G4**		36
	14	415	1.7	100.000	10300	13000	**S3.2C DA80G4**		38
	19	310	2.2	73.500	10300	12600			
	24	250	2.6	59.29	10300	12400			
	28	215	3.0	50.000	10300	12300			
	14	400	0.9	98.33	5820	5240	**S2.2A DA80G4**	113	26
	18	325	1.0	80.000	5810	4960	**S2.2B DA80G4**		26
	25	235	1.4	57.14	5650	4600	**S2.2C DA80G4**		28
	30	195	1.6	46.43	5490	4430			
	36	164	1.8	38.750	5330	4310			
	48	127	2.2	29.48	5060	4160			
	60	101	2.6	23.33	4810	4060			
	74	83	3.0	19.000	4580	3980			
	30	191	0.9	46.26	3410	3540	**S1.2A DA80G4**	112	20
	39	153	1.1	36.60	3390	3350	**S1.2B DA80G4**		20
	47	128	1.2	30.21	3350	3220	**S1.2C DA80G4**		21
	61	99	1.5	23.000	3250	3060			
	66	92	1.6	21.27	3210	3030			
	78	78	1.8	18.02	3130	2960			
	92	67	1.9	15.31	3030	2900			
	103	61	2.0	13.74	2970	2870			
	121	52	2.3	11.67	2870	2820			
	143	44	2.5	9.89	2770	2780			
	68	88	0.8	20.67	700	1690	**S0.2A DA80G4**	111	11
	88	69	1.0	16.000	790	1570	**S0.2C DA80G4**		13
	102	63	1.2	13.85	720	1840			
	130	49	1.4	10.83	780	1690			
	168	39	1.6	8.38	810	1570			
	220	30	1.9	6.42	810	1470			
	284	23	1.8	4.97	800	1400			
1.1									
	5.8	1440	0.9	240.57	15300	11800	**S4.3A DA90S4**	115	59
	7.4	1150	1.1	188.43	15300	11100	**S4.3B DA90S4**		59
							S4.3C DA90S4		62
	7.2	1180	0.8	193.33	15300	11200	**S4.2A DA90S4**	115	54
	9.2	950	1.3	151.67	15300	10600	**S4.2B DA90S4**		54
	11	785	1.6	123.33	15300	10200	**S4.2C DA90S4**		58
	15	585	2.1	91.500	15300	9640			
	18	500	2.5	78.000	15300	9420			
	22	410	2.9	63.125	15300	9180			

Motorreductores de tornillo sin fin S



P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
1.1									
	11	755	0.9	123.33	10300	14100	**S3.2A DA90S4**	114	38
	14	615	1.1	100.000	10300	13600	**S3.2B DA90S4**		38
	19	460	1.5	73.500	10300	13100	**S3.2C DA90S4**		40
	23	375	1.8	59.29	10200	12800			
	28	320	2.0	50.000	9840	12600			
	37	240	2.5	37.500	9220	12400			
	44	205	2.8	31.67	8850	12300			
	30	290	1.1	46.43	4740	4810	**S2.2A DA90S4**	113	27
	36	245	1.2	38.750	4700	4630	**S2.2B DA90S4**		27
	47	189	1.5	29.48	4570	4400	**S2.2C DA90S4**		29
	60	151	1.8	23.33	4430	4250			
	65	139	1.9	21.43	4370	4210			
	73	124	2.0	19.000	4270	4150			
	87	105	2.3	15.91	4130	4070			
	98	94	2.4	14.14	4030	4030			
	117	79	2.6	11.84	3870	3970			
	132	71	2.8	10.500	3770	3930			
1.5									
	7.5	1560	0.8	188.43	15300	12100	**S4.3A DA90L4**	115	61
							S4.3B DA90L4		61
							S4.3C DA90L4		64
	9.3	1290	0.9	151.67	15300	11400	**S4.2A DA90L4**	115	57
	11	1060	1.2	123.33	15300	10900	**S4.2B DA90L4**		57
	15	790	1.6	91.500	15300	10200	**S4.2C DA90L4**		60
	18	675	1.8	78.000	15300	9870			
	22	550	2.2	63.125	14700	9550			
	30	420	2.7	47.500	13800	9210			
	14	835	0.8	100.000	9700	14300	**S3.2A DA90L4**	114	40
	19	620	1.1	73.500	9570	13600	**S3.2B DA90L4**		40
	24	505	1.3	59.29	9350	13200	**S3.2C DA90L4**		42
	28	430	1.5	50.000	9120	13000			
	37	325	1.8	37.500	8670	12700			
	44	280	2.1	31.67	8380	12500			
	57	220	2.4	24.81	7940	12300			
	72	175	2.8	19.500	7500	12200			
	30	390	0.8	46.43	3880	5210	**S2.2A DA90L4**	113	29
	36	330	0.9	38.750	3970	4970	**S2.2B DA90L4**		29
	48	255	1.1	29.48	4000	4670	**S2.2C DA90L4**		32
	60	205	1.3	23.33	3970	4460			
	66	188	1.4	21.43	3940	4400			
	74	167	1.5	19.000	3890	4320			
	88	142	1.7	15.91	3810	4220			
	99	127	1.8	14.14	3740	4160			
	119	107	1.9	11.84	3630	4080			
	134	95	2.0	10.500	3550	4030			
2.2									
	11	1570	0.8	123.33	14000	12200	**S4.2A DA100L4**	115	58
	15	1170	1.1	91.500	13900	11100	**S4.2B DA100L4**		58
	18	1000	1.2	78.000	13800	10700	**S4.2C DA100L4**		61
	22	815	1.5	63.125	13400	10200			
	29	620	1.8	47.500	12800	9730			
	38	485	2.2	36.875	12200	9380			
	43	430	2.4	32.31	11900	9230			
	59	315	2.9	23.750	11000	8940			

Motorreductores de tornillo sin fin S



P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
2.2									
	28	635	1.0	50.000	7900	13700	**S3.2A DA100L4**	114	42
	37	485	1.2	37.500	7740	13200	**S3.2B DA100L4**		42
	44	415	1.4	31.67	7590	12900	**S3.2C DA100L4**		44
	56	330	1.6	24.81	7320	12700			
	71	260	1.9	19.500	7020	12400			
	95	196	2.2	14.57	6610	12000			
	128	148	2.6	10.875	6180	10400			
3.0									
	15	1570	0.8	91.500	11800	12200	**S4.2A DA100LX4**	115	65
	18	1350	0.9	78.000	12000	11600	**S4.2B DA100LX4**		65
	22	1100	1.1	63.125	11900	11000	**S4.2C DA100LX4**		69
	30	835	1.3	47.500	11700	10300			
	38	655	1.6	36.875	11300	9810			
	44	575	1.8	32.31	11000	9610			
	59	425	2.2	23.750	10400	9220			
	69	365	2.4	20.50	10100	9070			
	73	345	2.4	19.35	10000	9020			
	91	280	2.7	15.43	9480	8850			
	97	265	2.8	14.58	9350	8810			
	121	215	3.0	11.62	8830	8680			
	38	650	0.9	37.500	6670	13700	**S3.2A DA100LX4**	114	48
	45	555	1.0	31.67	6680	13400	**S3.2B DA100LX4**		48
	57	440	1.2	24.81	6590	13000	**S3.2C DA100LX4**		50
	72	350	1.4	19.500	6430	12700			
	97	265	1.7	14.57	6160	11600			
	130	199	1.9	10.875	5840	10200			
4.0									
	22	1470	0.8	63.125	10100	11900	**S4.2A DA112M4**	115	70
	29	1120	1.0	47.500	10300	11000	**S4.2B DA112M4**		70
	38	880	1.2	36.875	10200	10400	**S4.2C DA112M4**		74
	43	770	1.3	32.31	10100	10100			
	59	570	1.6	23.750	9750	9600			
	68	495	1.8	20.50	9530	9400			
	72	465	1.8	19.35	9430	9330			
	91	375	2.0	15.43	9030	9100			
	96	355	2.1	14.58	8920	9050			
	120	285	2.3	11.62	8490	8870			
	128	270	2.3	10.98	8380	8830			
	44	745	0.8	31.67	5540	14000	**S3.2A DA112M4**	114	53
	56	590	0.9	24.81	5690	13500	**S3.2B DA112M4**		53
	72	470	1.1	19.500	5720	12700	**S3.2C DA112M4**		55
	96	355	1.2	14.57	5630	11300			
	129	265	1.4	10.875	5440	10000			
5.5									
	39	1170	0.9	36.875	8590	11200	**S4.2A DA132S4**	115	86
	45	1030	1.0	32.31	8670	10800	**S4.2B DA132S4**		86
	61	760	1.2	23.750	8670	10100	**S4.2C DA132S4**		90
	74	625	1.3	19.35	8540	9740			
	99	480	1.5	14.58	8220	9360			
	131	365	1.7	10.98	7830	9070			

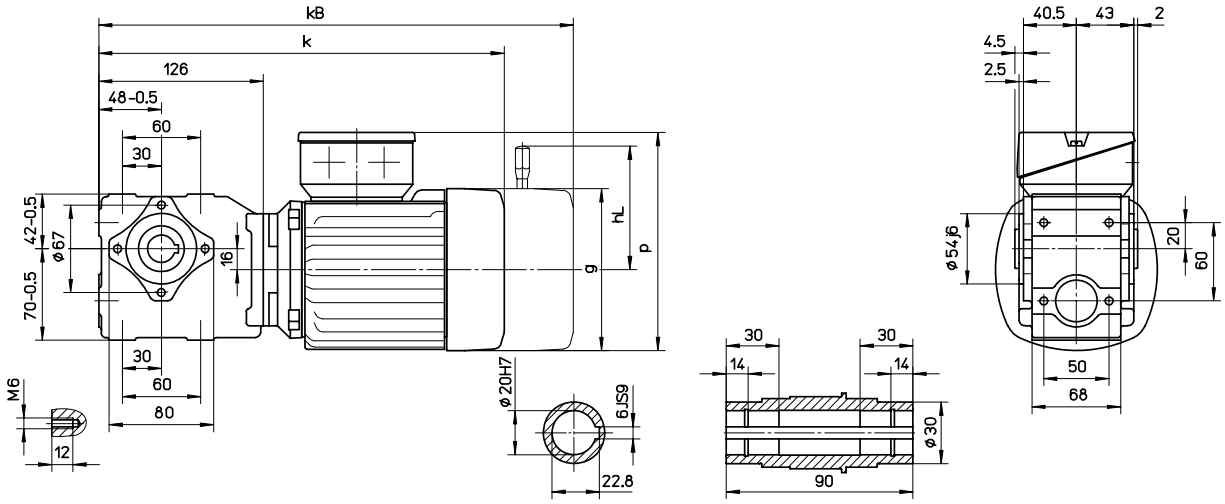
Motorreductores de tornillo sin fin S para muy baja velocidad

M [Nm]	n2 [1/min]	i	Tipo	Dimensiones Página	Peso [kg]
765	**0.13**	10506	**S3.2/G1.2A DL63K4**	114/116	36
	0.15	9548.7	**S3.2/G1.2B DL63K4**		36
	0.15	9243.4	**S3.2/G1.2C DL63K4**		38
	0.17	8183.7			
	0.19	7437.9			
	0.20	7200.2			
	0.22	6544.0			
	0.24	5789.8			
	0.27	5262.2			
	0.29	4824.8			
	0.32	4385.2			
	0.38	3711.4			
	0.42	3373.2			
	0.54	2598.0			
	0.60	2361.3			
	0.66	2131.4			
	0.73	1937.2			
1410	**0.11**	12828	**S4.2/G1.2A DL63K4**	115/116	53
	0.12	11659	**S4.2/G1.2B DL63K4**		53
	0.12	11287	**S4.2/G1.2C DL63K4**		57
	0.14	10064			
	0.15	9146.7			
	0.16	8854.2			
	0.18	8047.4			
	0.20	7119.9			
	0.22	6471.1			
	0.24	5933.3			
	0.26	5392.6			
	0.31	4564.0			
	0.34	4148.1			
	0.44	3194.8			

Motorreductores de tornillo sin fin S

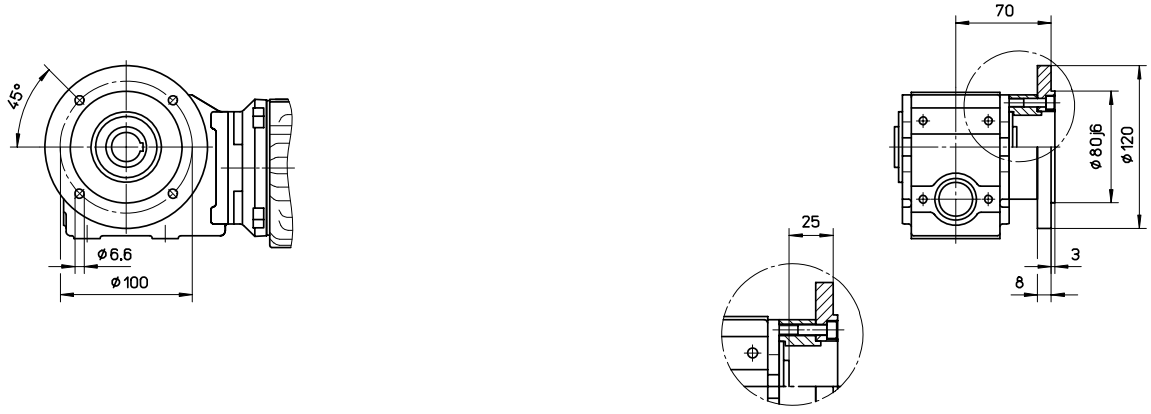
S0.2A

Versión con pie



S0.2C

Versión con brida B5



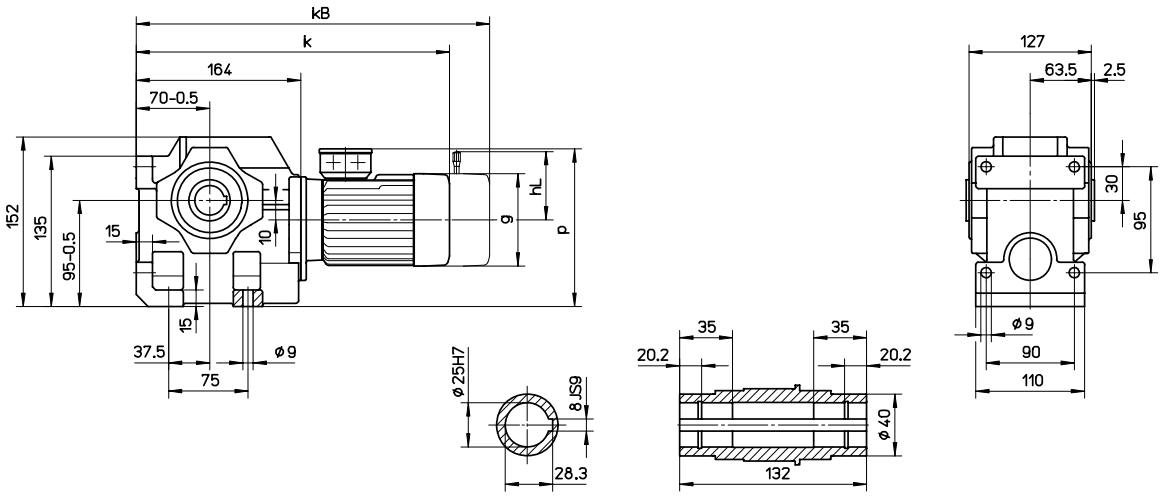
	k	kB	g	p	hL
S0.2_ DL63/71	324	376	126	176	106
S0.2_ DA80	374	445	158	213	128

Las cotas kB y hL conciernen a los motorreductores con freno.

Motorreductores de tornillo sin fin S

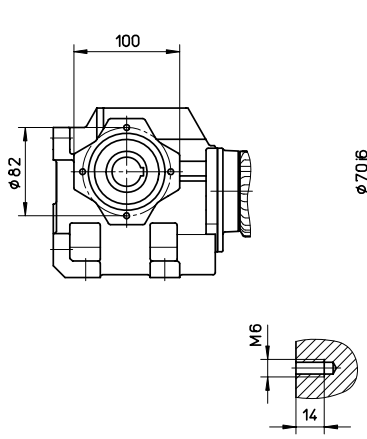
S1.2A

Versión con pie



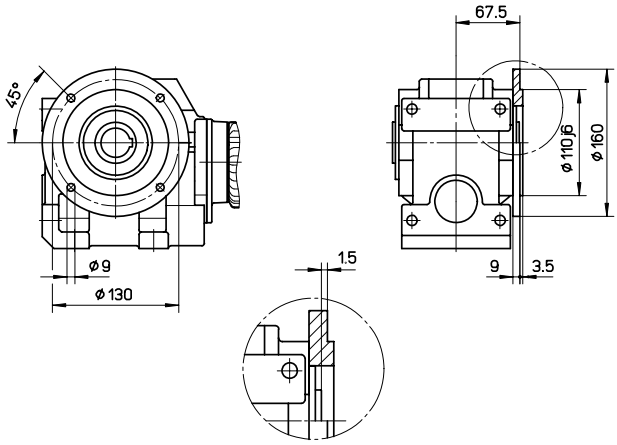
S1.2B

Versión con brida B14



S1.2C

Versión con brida B5



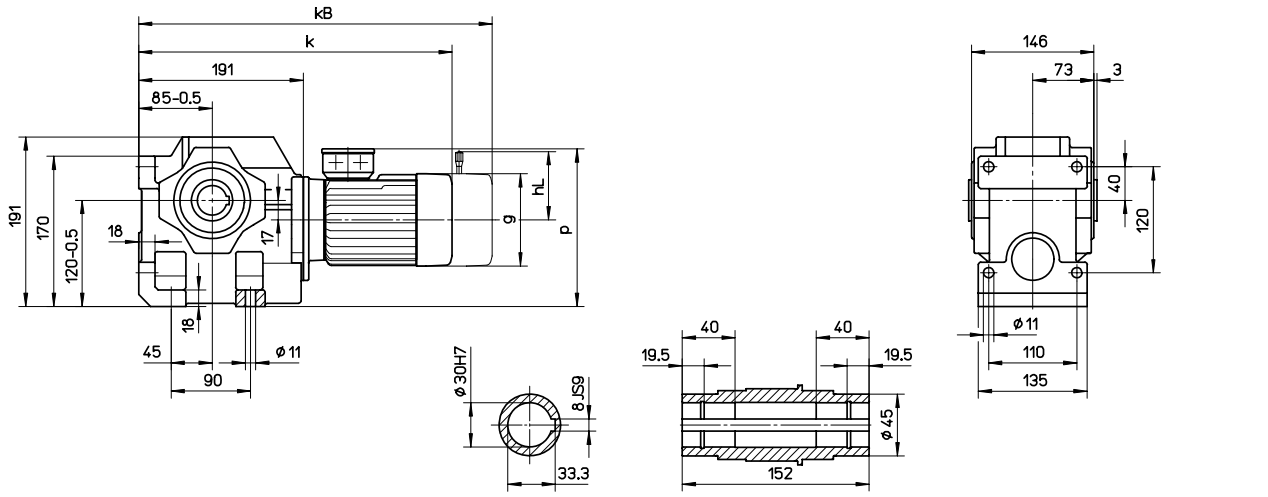
	k	kB	g	p	hL
S1.2_ DL63/71	359	411	126	198	106
S1.2_ DA80	408	479	158	220	128

Las cotas kB y hL conciernen a los motorreductores con freno.

Motorreductores de tornillo sin fin S

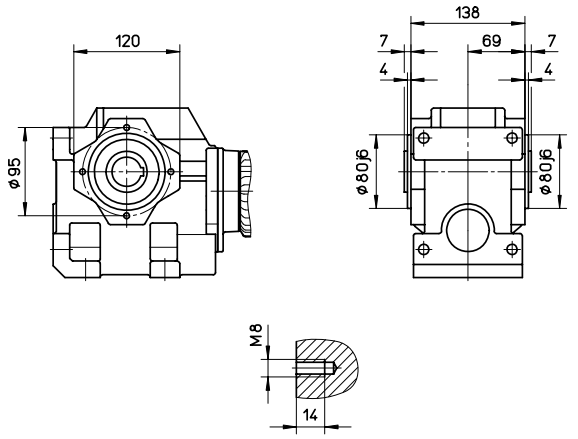
S2.2A

Versión con pie



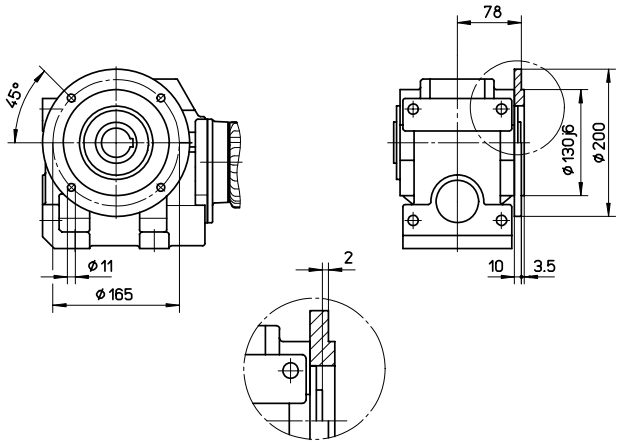
S2.2B

Versión con brida B14



S2.2C

Versión con brida B5

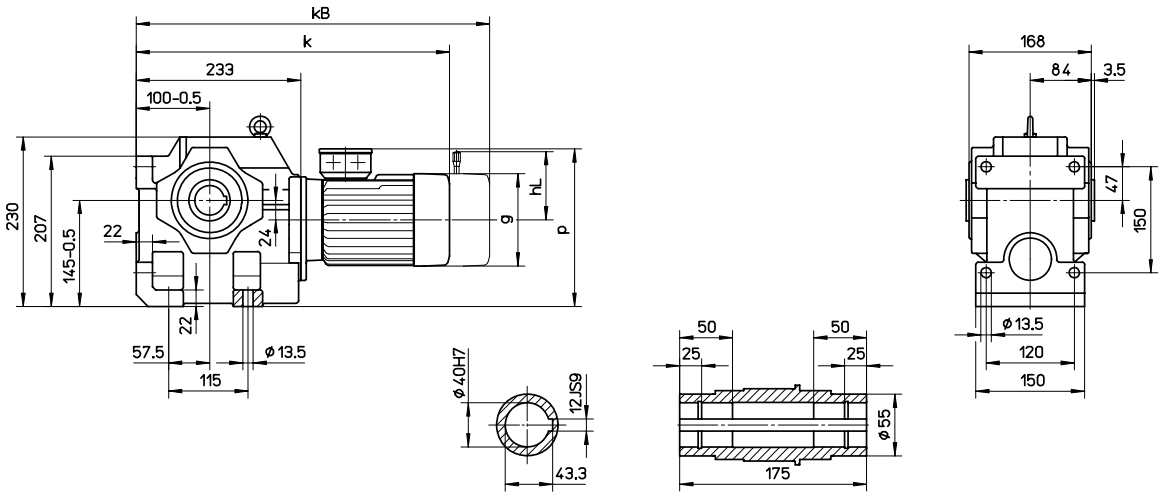


	k	kB	g	p	hL
S2.2_ DL63/71	382	434	126	216	106
S2.2_ DA80	431	502	158	238	128
S2.2_ DA90S	431	502	158	238	128
S2.2_ DA90L	478	542	176	252	168

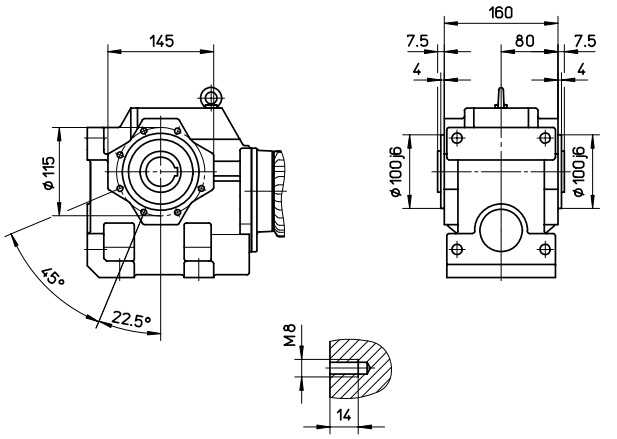
Las cotas kB y hL conciernen a los motorreductores con freno.

Motorreductores de tornillo sin fin S

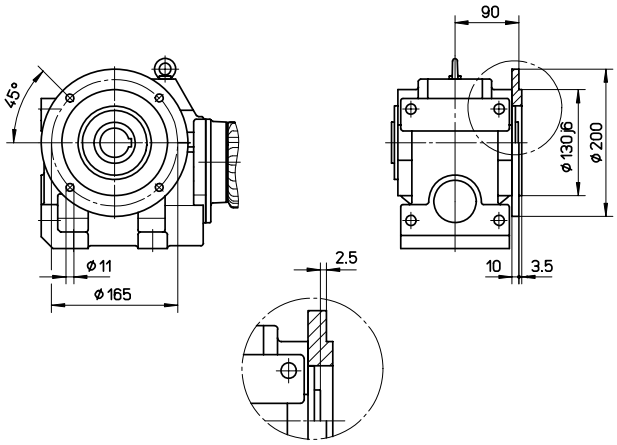
S3.2A, S3.3A Versión con pie



S3.2B, S3.3B Versión con brida B14



S3.2C, S3.3C Versión con brida B5

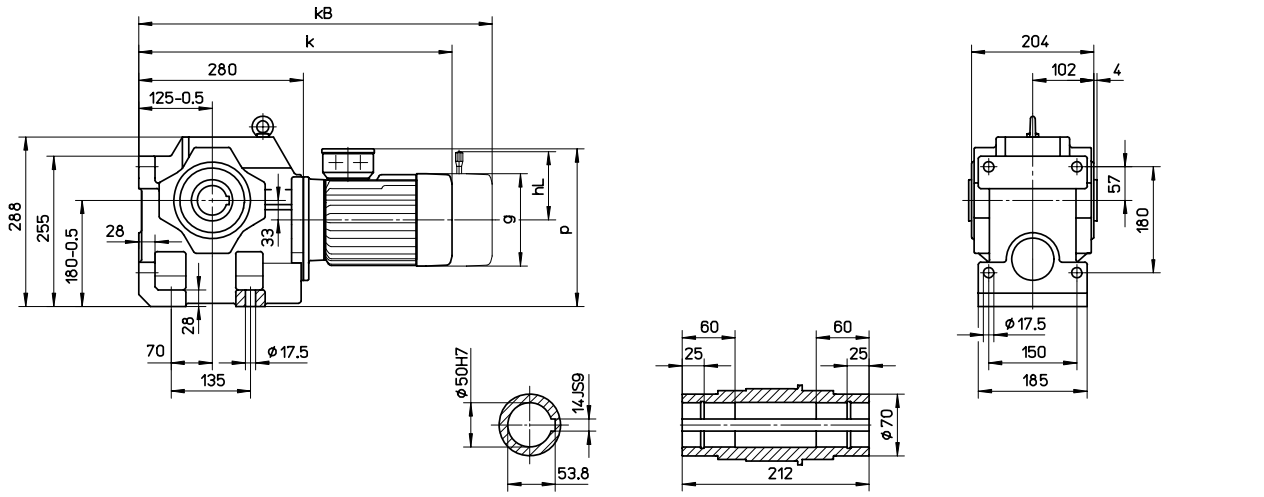


	k	kB	g	p	hL
S3.3_ DL63/71	445	497	126	234	106
S3.2_ DL63/71	418	470	126	234	106
S3.3_ DA80	494	565	158	256	128
S3.2_ DA80	467	538	158	256	128
S3.2_ DA90S	467	538	158	256	128
S3.2_ DA90L	514	579	176	270	168
S3.2_ DA100L	514	579	176	270	168
S3.2_ DA100LX	552	626	195	277	176
S3.2_ DA112M	552	626	195	277	176

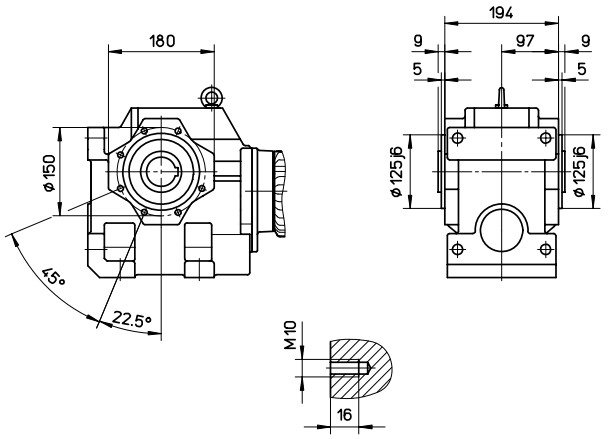
Las cotas kB y hL conciernen a los motorreductores con freno.

Motorreductores de tornillo sin fin S

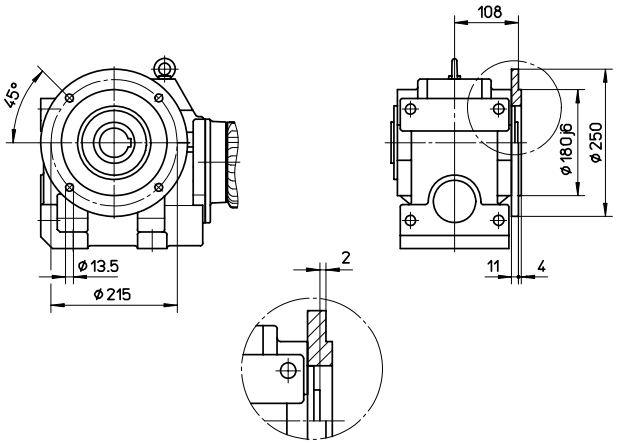
S4.2A, S4.3A Versión con pie



S4.2B, S4.3B Versión con brida B14



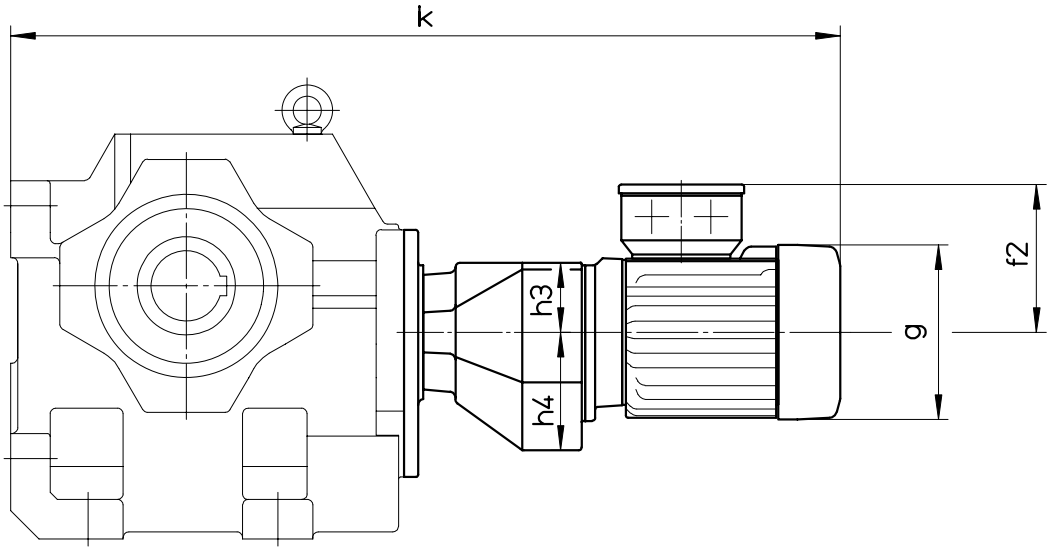
S4.2C, S4.3C Versión con brida B5



	k	kB	g	p	hL
S4.3_ DL63/71	487	539	126	260	106
S4.2_ DA80	508	579	158	282	128
S4.3_ DA80	535	606	158	282	128
S4.2_ DA90S	508	579	158	282	128
S4.2_ DA90L	555	620	176	296	168
S4.2_ DA100L	555	620	176	296	168
S4.2_ DA100LX	593	667	195	303	176
S4.2_ DA112	593	667	195	303	176
S4.2_ DA132	697	796	245	335	225

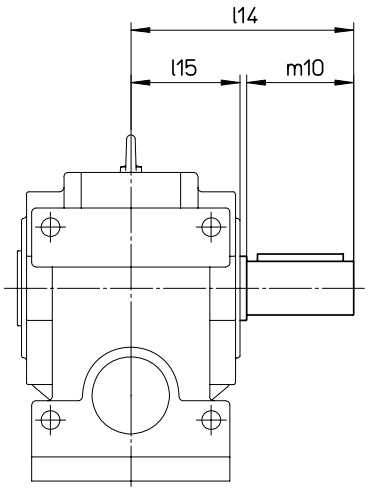
Las cotas kB y hL conciernen a los motorreductores con freno.

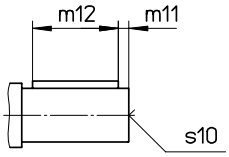
Motorreductores de tornillo sin fin S para muy baja velocidad

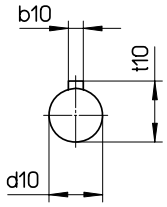


	k	g	f2	h3	h4
S3.2/G1.2A DL63/71	563	126	113	50	84
S4.2/G1.2A DL63/71	604	126	113	50	84

Reductores de tornillo sin fin S
Ejecución con eje sólido

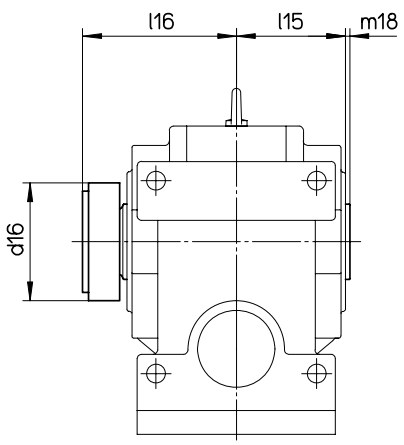


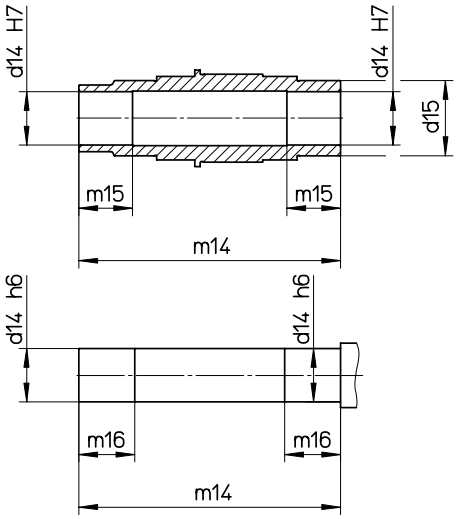




Reductor	d10	m10	m11	m12	b10	t10	s10	l14	l15
S0.2A **S0.2C**	20	40	4	32	6	22.5	M6	85 110	43
S1	25	50	5	40	8	28	M10	117.5	63.5
S2	30	60	5	50	8	33	M10	138	73
S3	40	80	5	70	12	43	M16	170	84
S4	50	100	10	80	14	53.5	M16	208	102

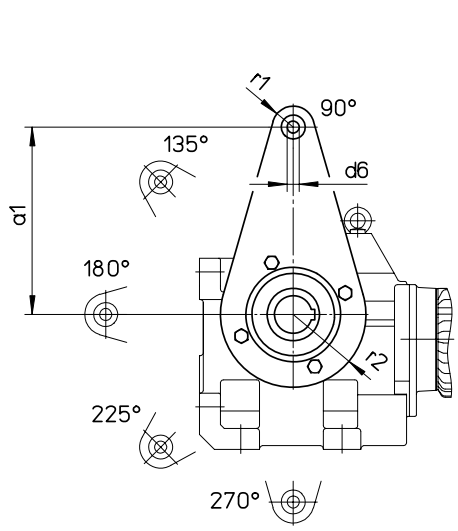
Reductores de tornillo sin fin S
Ejecución con eje hueco y disco de apriete

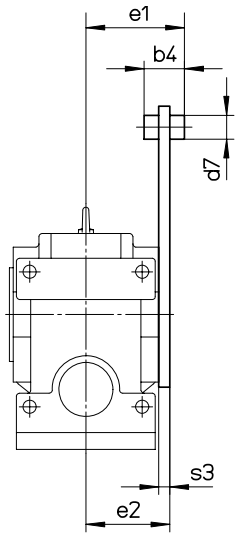




Reductor	d14	d15	d16	m14	m15	m16	m18	l15	l16
S1	25	40	60	155	25	27	2.5	63.5	93
S2	30	45	72	176	30	32	3	73	106
S3	40	55	90	204	40	42	3.5	84	122
S4	50	70	110	244	50	52	4	102	144

Reductores de tornillo sin fin S
Brazo de par T1





Reductor	a1	b4	d6	d7	e1	e2	s3	r1	r2
S0	100	15	11	32	51	46.5	6	20	40
S1	130	22	11	32	69	64.5	6	20	55
S2	160	22	11	32	84	77	8	20	65
S3	200	22	11	32	95	88	8	20	75
S4	250	32	17	40	117	105	8	28	97

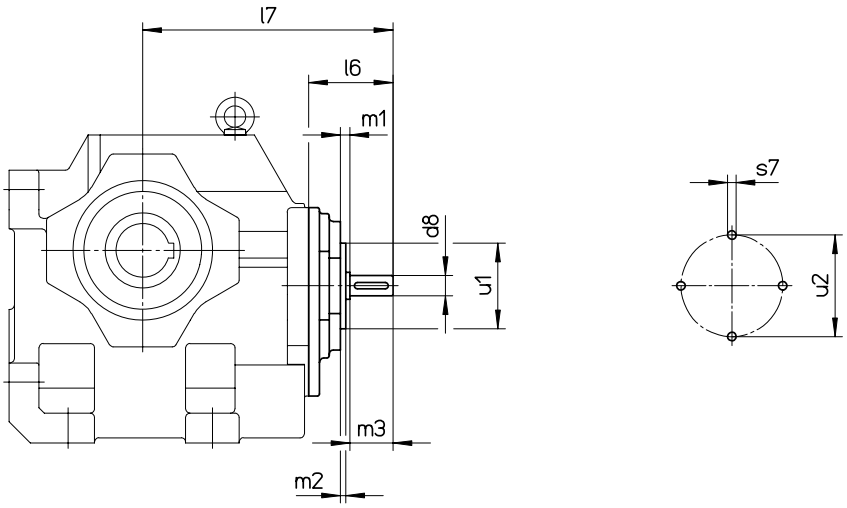
Reductores de tornillo sin fin S

i	n2 [1/min] | M [Nm] | Pmax [kW] | η (cG=1)				Adaptador motor -M						
	n1=2800	n1=1400	n1=930	n1=700							
S1.2					IEC	IEC	IEC				
490.000	5.7|175|0.18|0.57	2.9|181|0.10|0.52	1.9|183|0.07|0.49	1.4|184|0.06|0.47	63	71	80	S4B	S4C	S4D	
431.11	6.5|174|0.20|0.58	3.2|180|0.11|0.53	2.2|182|0.08|0.50	1.6|183|0.07|0.48	63	71	80	S4B	S4C	S4D	
346.67	8.1|171|0.24|0.59	4.0|178|0.14|0.55	2.7|181|0.10|0.51	2.0|182|0.08|0.49	63	71	80	S4B	S4C	S4D	
288.89	9.7|168|0.28|0.61	4.8|177|0.16|0.56	3.2|180|0.11|0.53	2.4|182|0.09|0.50	63	71	80	S4B	S4C	S4D	
222.22	13|163|0.34|0.64	6.3|174|0.20|0.58	4.2|178|0.14|0.55	3.2|180|0.11|0.53	63	71	80	S4B	S4C	S4D	
177.625	16|170|0.36|0.77	7.9|162|0.18|0.73	5.2|155|0.12|0.70	3.9|151|0.09|0.69	63	71	80	S4B	S4C	S4D	
156.28	18|178|0.43|0.78	9.0|185|0.23|0.75	6.0|177|0.15|0.71	4.5|172|0.12|0.69	63	71	80	S4B	S4C	S4D	
125.67	22|175|0.52|0.79	11|184|0.28|0.76	7.4|187|0.20|0.73	5.6|189|0.16|0.71	63	71	80	S4B	S4C	S4D	
104.72	27|171|0.60|0.80	13|182|0.33|0.77	8.9|186|0.23|0.75	6.7|188|0.18|0.72	63	71	80	S4B	S4C	S4D	
80.56	35|164|0.73|0.82	17|179|0.42|0.78	12|184|0.29|0.76	8.7|186|0.23|0.74	63	71	80	S4B	S4C	S4D	
56.39	50|155|0.96|0.84	25|173|0.56|0.80	16|180|0.40|0.78	12|183|0.31|0.77	63	71	80	S4B	S4C	S4D	
46.26	61|147|1.1|0.85	30|168|0.66|0.81	20|177|0.47|0.79	15|181|0.37|0.77	63	71	80	S4B	S4C	S4D	
36.60	77|138|1.3|0.85	38|162|0.79|0.82	25|172|0.57|0.80	19|177|0.45|0.78	63	71	80	S4B	S4C	S4D	
30.21	93|129|1.5|0.86	46|157|0.91|0.83	31|168|0.67|0.81	23|174|0.53|0.79	63	71	80	S4B	S4C	S4D	
23.000	122|117|1.5|0.88	61|147|1.1|0.85	40|161|0.82|0.83	30|168|0.66|0.81	63	71	80	S4B	S4C	S4D	
21.27	132|113|1.5|0.88	66|144|1.2|0.85	44|159|0.87|0.83	33|166|0.70|0.82	63	71	80	S4B	S4C	S4D	
18.02	155|104|1.5|0.89	78|137|1.3|0.86	52|153|0.99|0.84	39|162|0.80|0.83	63	71	80	S4B	S4C	S4D	
15.31	183|96|1.5|0.89	91|130|1.4|0.86	61|147|1.1|0.85	46|157|0.90|0.83	63	71	80	S4B	S4C	S4D	
13.74	204|89|1.5|0.90	102|125|1.5|0.87	68|143|1.2|0.85	51|154|0.98|0.84	63	71	80	S4B	S4C	S4D	
11.67	240|82|1.5|0.90	120|117|1.5|0.87	80|136|1.3|0.86	60|148|1.1|0.84	63	71	80	S4B	S4C	S4D	
9.89	283|73|1.5|0.91	142|109|1.5|0.88	94|129|1.5|0.86	71|141|1.2|0.85	63	71	80	S4B	S4C	S4D	
S2.2					IEC	IEC	IEC	IEC				
190.000	15|255|0.50|0.80	7.4|245|0.25|0.76	4.9|235|0.16|0.73	3.7|230|0.12|0.72	63	71	80		S4B	S4C	S4D	
153.33	18|310|0.73|0.80	9.1|300|0.37|0.78	6.1|285|0.24|0.74	4.6|280|0.18|0.73	63	71	80		S4B	S4C	S4D	
126.67	22|325|0.93|0.81	11|345|0.51|0.79	7.3|345|0.35|0.76	5.5|335|0.26|0.74	63	71	80	90	S4B	S4C	S4D	S4E
98.33	28|315|1.1|0.82	14|340|0.64|0.80	9.5|350|0.44|0.78	7.1|355|0.35|0.76	63	71	80	90	S4B	S4C	S4D	S4E
80.000	35|305|1.3|0.83	18|335|0.76|0.80	12|345|0.53|0.79	8.8|350|0.42|0.78	63	71	80	90	S4B	S4C	S4D	S4E
57.14	49|280|1.7|0.85	24|320|1.0|0.82	16|335|0.72|0.80	12|345|0.56|0.79	63	71	80		S4B	S4C	S4D	
46.43	60|270|2.0|0.86	30|310|1.2|0.83	20|330|0.86|0.81	15|340|0.67|0.80	63	71	80	90	S4B	S4C	S4D	S4E
38.750	72|255|2.2|0.86	36|300|1.4|0.83	24|325|1.00|0.81	18|335|0.79|0.80	63	71	80	90	S4B	S4C	S4D	S4E
29.48	95|230|2.6|0.88	47|285|1.7|0.85	32|310|1.2|0.83	24|325|0.99|0.81	63	71	80	90	S4B	S4C	S4D	S4E
23.33	120|205|2.9|0.89	60|270|2.0|0.86	40|295|1.5|0.84	30|310|1.2|0.82	63	71	80	90	S4B	S4C	S4D	S4E
21.43	131|196|3.0|0.89	65|260|2.1|0.86	43|290|1.6|0.84	33|305|1.3|0.83				90				S4E
19.000	147|185|3.0|0.89	74|250|2.2|0.86	49|285|1.7|0.85	37|300|1.4|0.83	63	71	80	90	S4B	S4C	S4D	S4E
15.91	176|168|3.0|0.90	88|235|2.5|0.87	58|270|1.9|0.85	44|290|1.6|0.84				90				S4E
14.14	198|154|3.0|0.90	99|225|2.6|0.88	66|260|2.1|0.86	49|280|1.7|0.85	63	71	80	90	S4B	S4C	S4D	S4E
11.84	236|139|3.0|0.91	118|205|2.9|0.89	79|245|2.3|0.87	59|270|1.9|0.86				90				S4E
10.500	267|128|3.0|0.91	133|194|3.0|0.89	89|235|2.5|0.87	67|260|2.1|0.86	63	71	80	90	S4B	S4C	S4D	S4E
S3.2					IEC	IEC	IEC	IEC	IEC			
190.000	15|540|1.0|0.82	7.4|510|0.51|0.78	4.9|495|0.34|0.75	3.7|485|0.25|0.74	71	80				S4C	S4D	
158.33	18|630|1.4|0.82	8.8|610|0.71|0.80	5.9|580|0.47|0.76	4.4|570|0.35|0.74	71	80	90			S4C	S4D	S4E
123.33	23|660|1.9|0.83	11|710|1.0|0.81	7.5|730|0.74|0.78	5.7|715|0.56|0.76	71	80	90	100	112	S4C	S4D	S4E
100.000	28|635|2.2|0.84	14|700|1.3|0.82	9.3|720|0.87|0.80	7.0|730|0.69|0.77	71	80	90	100	112	S4C	S4D	S4E
73.500	38|595|2.8|0.86	19|675|1.6|0.83	13|705|1.1|0.81	9.5|720|0.89|0.80	71	80	90	100	112	S4C	S4D	S4E
59.29	47|565|3.2|0.87	24|655|1.9|0.83	16|690|1.4|0.82	12|710|1.1|0.81	71	80	90			S4C	S4D	S4E
50.000	56|540|3.6|0.87	28|635|2.2|0.84	19|680|1.6|0.82	14|700|1.3|0.82	71	80	90	100	112	S4C	S4D	S4E
37.500	75|490|4.3|0.88	37|600|2.7|0.86	25|650|2.0|0.84	19|680|1.6|0.83	71	80	90	100	112	S4C	S4D	S4E
31.67	88|455|4.8|0.89	44|575|3.1|0.86	29|630|2.3|0.84	22|660|1.8|0.83	71	80	90	100	112	S4C	S4D	S4E
24.81	113|405|5.3|0.89	56|535|3.6|0.87	37|600|2.7|0.86	28|635|2.2|0.84			90	100	112			S4E
19.500	144|355|5.9|0.90	72|495|4.2|0.88	48|565|3.2|0.87	36|605|2.7|0.85			90	100	112			S4E
14.57	192|295|6.5|0.91	96|435|5.0|0.89	64|515|3.9|0.88	48|565|3.3|0.87			90	100	112			S4E
10.875	257|240|7.1|0.91	129|375|5.6|0.90	86|465|4.7|0.89	64|515|3.9|0.88			90	100	112			S4E

Reductores de tornillo sin fin S

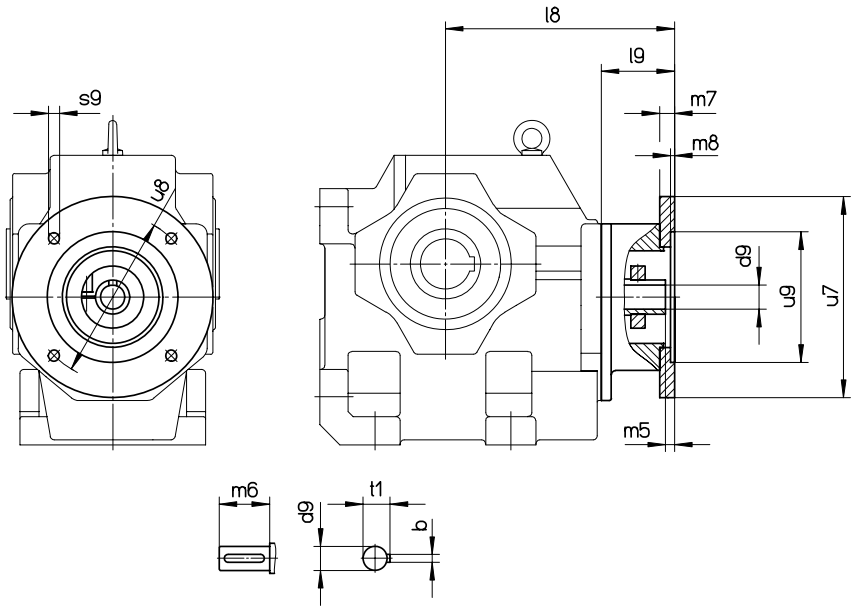
i	n2 [1/min] | M [Nm] | Pmax [kW] | η (cG=1)				Adaptador motor -M							
	n1=2800	n1=1400	n1=930	n1=700								
S3.3					IEC	IEC	IEC					
611.11	4.6|745|0.48|0.75	2.3|750|0.25|0.72	1.5|740|0.17|0.71	1.1|735|0.13|0.71	63	71	80	S4B	S4C	S4D		
477.78	5.9|740|0.59|0.76	2.9|755|0.32|0.73	1.9|760|0.22|0.72	1.5|760|0.16|0.71	63	71	80	S4B	S4C	S4D		
388.89	7.2|730|0.71|0.78	3.6|750|0.38|0.73	2.4|755|0.26|0.72	1.8|760|0.20|0.71	63	71	80	S4B	S4C	S4D		
288.89	9.7|720|0.90|0.81	4.8|745|0.50|0.75	3.2|750|0.35|0.73	2.4|755|0.27|0.72	63	71	80	S4B	S4C	S4D		
222.22	13|705|1.1|0.81	6.3|735|0.63|0.77	4.2|745|0.44|0.74	3.2|750|0.34|0.73	63	71	80	S4B	S4C	S4D		
188.89	15|695|1.3|0.82	7.4|730|0.73|0.78	4.9|745|0.51|0.75	3.7|750|0.40|0.74	63	71	80	S4B	S4C	S4D		
S4.2					IEC	IEC	IEC	IEC	IEC			
193.33	14|990|1.8|0.85	7.2|945|0.89|0.81	4.8|915|0.59|0.78	3.6|895|0.44|0.76	80	90				S4D	S4E	
151.67	18|1220|2.8|0.85	9.2|1200|1.4|0.83	6.1|1140|0.92|0.79	4.6|1120|0.70|0.78	80	90	100	112	132	S4D	S4E	S4F
123.33	23|1180|3.3|0.86	11|1290|1.8|0.84	7.5|1330|1.3|0.81	5.7|1350|1.0|0.79	80	90	100	112	132	S4D	S4E	S4F
91.500	31|1110|4.1|0.87	15|1250|2.4|0.85	10|1300|1.6|0.84	7.7|1330|1.3|0.81	80	90	100	112	132	S4D	S4E	S4F
78.000	36|1070|4.6|0.87	18|1230|2.7|0.85	12|1290|1.9|0.84	9.0|1310|1.5|0.83		90	100	112	132		S4E	S4F
63.125	44|1010|5.3|0.88	22|1190|3.2|0.86	15|1250|2.3|0.85	11|1240|1.7|0.84	80	90	100	112	132	S4D	S4E	S4F
47.500	59|920|6.4|0.88	29|1120|4.0|0.87	20|1210|2.9|0.85	15|1260|2.3|0.85	80	90	100	112	132	S4D	S4E	S4F
36.875	76|830|7.5|0.89	38|1050|4.8|0.87	25|1160|3.6|0.86	19|1220|2.8|0.85			100	112	132			S4F
32.31	87|780|8.0|0.89	43|1020|5.3|0.88	29|1130|3.9|0.86	22|1190|3.2|0.86		90	100	112	132		S4E	S4F
23.750	118|660|9.0|0.91	59|920|6.4|0.88	39|1040|4.9|0.87	29|1120|4.0|0.87			100	112	132			S4F
20.50	137|600|9.5|0.91	68|865|7.0|0.88	45|1000|5.4|0.88	34|1080|4.4|0.87					132			S4F
19.35	145|585|9.7|0.91	72|850|7.3|0.88	48|985|5.6|0.88	36|1070|4.6|0.87			100	112	132			S4F
15.43	181|500|10|0.92	91|765|8.1|0.89	60|910|6.5|0.88	45|1000|5.4|0.88					132			S4F
14.58	192|475|10|0.92	96|740|8.3|0.90	64|890|6.8|0.88	48|985|5.6|0.88			100	112	132			S4F
11.63	241|405|11|0.92	120|650|9.1|0.91	80|815|7.7|0.89	60|910|6.5|0.88					132			S4F
10.98	255|390|11|0.92	128|630|9.2|0.91	85|790|7.9|0.89	64|890|6.8|0.88			100	112	132			S4F
S4.3					IEC	IEC	IEC	IEC				
1857.9	1.5|1170|0.25|0.74	0.75|1150|0.12|0.73	0.50|1150|0.08|0.73	0.38|1150|0.06|0.73	63	71	80		S4B	S4C	S4D	
1634.6	1.7|1170|0.28|0.74	0.86|1150|0.14|0.73	0.57|1150|0.09|0.73	0.43|1150|0.07|0.73	63	71	80		S4B	S4C	S4D	
1314.4	2.1|1180|0.35|0.75	1.1|1160|0.18|0.73	0.71|1150|0.12|0.73	0.53|1150|0.09|0.73	63	71	80		S4B	S4C	S4D	
1095.4	2.6|1190|0.42|0.75	1.3|1160|0.21|0.74	0.85|1150|0.14|0.73	0.64|1150|0.11|0.73	63	71	80	90	S4B	S4C	S4D	S4E
842.59	3.3|1200|0.55|0.76	1.7|1170|0.27|0.74	1.1|1160|0.18|0.74	0.83|1150|0.14|0.73	63	71	80	90	S4B	S4C	S4D	S4E
589.81	4.7|1230|0.78|0.78	2.4|1180|0.39|0.75	1.6|1170|0.26|0.74	1.2|1160|0.20|0.74	63	71	80		S4B	S4C	S4D	
483.89	5.8|1250|0.96|0.79	2.9|1190|0.48|0.76	1.9|1170|0.32|0.74	1.4|1170|0.24|0.74	63	71	80		S4B	S4C	S4D	
382.78	7.3|1270|1.2|0.81	3.7|1210|0.60|0.77	2.4|1180|0.40|0.75	1.8|1170|0.30|0.74	63	71	80	90	S4B	S4C	S4D	S4E
315.97	8.9|1300|1.5|0.83	4.4|1220|0.73|0.77	2.9|1190|0.49|0.76	2.2|1180|0.37|0.75	63	71	80	90	S4B	S4C	S4D	S4E
240.57	12|1290|1.9|0.84	5.8|1250|0.96|0.79	3.9|1210|0.64|0.77	2.9|1190|0.48|0.76	63	71	80	90	S4B	S4C	S4D	S4E
188.43	15|1260|2.3|0.85	7.4|1280|1.2|0.81	4.9|1230|0.81|0.78	3.7|1210|0.61|0.77	63	71	80	90	S4B	S4C	S4D	S4E
143.68	19|1210|2.9|0.85	9.7|1310|1.6|0.84	6.5|1260|1.1|0.80	4.9|1230|0.80|0.78	63	71	80		S4B	S4C	S4D	
103.41	27|1140|3.0|0.86	14|1270|2.1|0.84	9.0|1310|1.5|0.83	6.8|1260|1.1|0.80	63	71	80		S4B	S4C	S4D	

Reductores de tornillo sin fin S



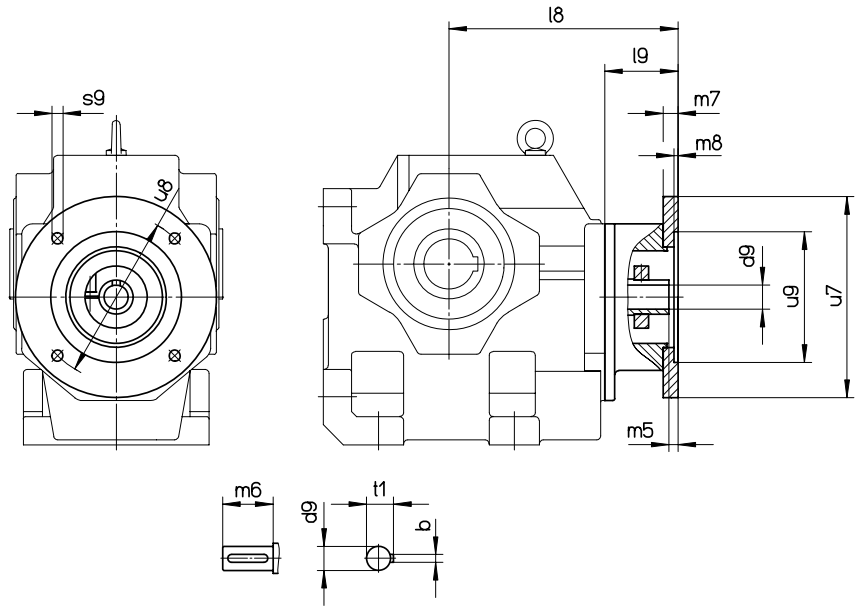
Reductor	d8	m3	m1	m2	u1	u2	s7	l6	l7
S1.2-W	14	40	8	5	54	67	M6	77.5	171.5
S2.2-W	14	40	8	5	54	67	M6	74	180
S3.2-W	19	40	9	5	80	95	M8	84.5	217.5
S3.3-W	14	40	8	5	54	67	M6	94.5	227.5
S4.2-W	24	50	9	5	80	95	M8	88.5	243.5
S4.3-W	14	40	8	5	54	67	M6	89.5	244.5

Reductores de tornillo sin fin S con adaptador para motores IEC



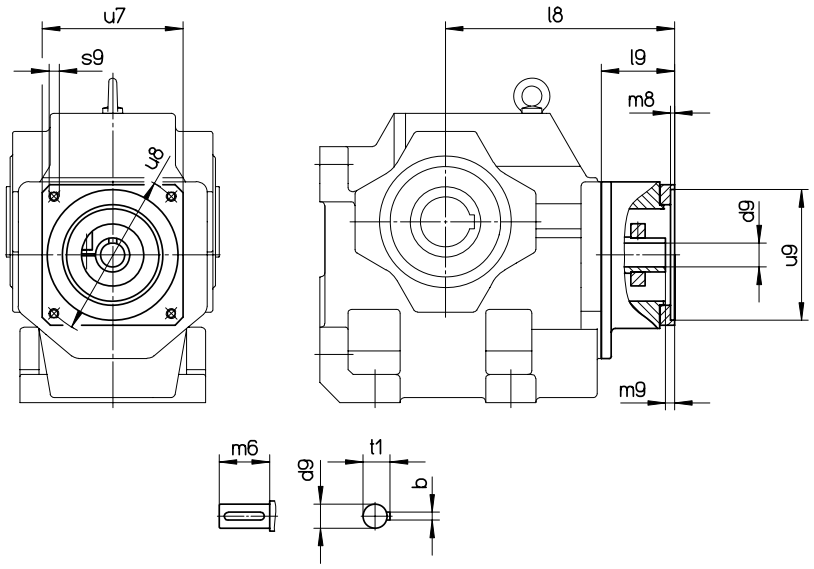
Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m7	m8	l8	l9
S1.2	**-M IEC63B14G**	120	100	80	7	11	23	4	12.5	4.5	12	4	140.5	46.5
	-M IEC63B5	140	115	95	9							4		
	-M IEC71B14G	140	115	95	9	14	30	5	16	5	12	4	144.5	50.5
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14K	120	100	80	7	19	40	6	21.5	7	12	4	153.5	59.5
	-M IEC80B14G	160	130	110	9							4.5		
	-M IEC80B5	200	165	130	11							4.5		
S2.2	**-M IEC63B14G**	120	100	80	7	11	23	4	12.5	4.5	12	4	149	43
	-M IEC63B5	140	115	95	9							4		
	-M IEC71B14G	140	115	95	9	14	30	5	16	5	12	4	153	47
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14K	120	100	80	7	19	40	6	21.5	7	12	4	162	56
	-M IEC80B14G	160	130	110	9							4.5		
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14K	140	115	95	9	24	40	8	27	9	12	4	174.5	68.5
	-M IEC90B14G	160	130	110	9							4.5		
	-M IEC90B5	200	165	130	11							4.5		
S3.2	**-M IEC71B14G**	140	115	95	9	14	30	5	16	5	15	4	191.5	58.5
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14G	160	130	110	9	19	40	6	21.5	7	15	4.5	201.5	68.5
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14K	140	115	95	9	24	50	8	27	9	15	4	212.5	79.5
	-M IEC90B14G	160	130	110	9							4.5		
	-M IEC90B5	200	165	130	11							4.5		
	-M IEC100B14K	160	130	110	9	28	60	8	31	9	15	4.5	220.5	87.5
	-M IEC100B14G	200	165	130	11							4.5		
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14K	160	130	110	9	28	60	8	31	9	15	4.5	220.5	87.5
	-M IEC112B14G	200	165	130	11							4.5		
	-M IEC112B5	250	215	180	14							5		

Reductores de tornillo sin fin S con adaptador para motores IEC



Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m7	m8	l8	l9
S3.3	**-M IEC63B14G**	120	100	80	7	11	23	4	12.5	4.5	12	4	196.5	46.5
	-M IEC63B5	140	115	95	9							4		
	-M IEC71B14G	140	115	95	9	14	30	5	16	5	12	4	200.5	50.5
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14K	120	100	80	7							4		
	-M IEC80B14G	160	130	110	9	19	40	6	21.5	7	12	4.5	209.5	59.5
	-M IEC80B5	200	165	130	11							4.5		
S4.2	**-M IEC80B14G**	160	130	110	9	19	40	6	21.5	7	15	4.5	218	63
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14G	160	130	110	9	24	50	8	27	9	15	4.5	229	74
	-M IEC90B5	200	165	130	11							4.5		
	-M IEC100B14K	160	130	110	9							4.5		
	-M IEC100B14G	200	165	130	11	28	60	8	31	9	15	4.5	237	82
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14K	160	130	110	9							4.5		
	-M IEC112B14G	200	165	130	11	28	60	8	31	9	15	4.5	237	82
	-M IEC112B5	250	215	180	14							5		
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	15	5	261	106
S4.3	**-M IEC63B14G**	120	100	80	7	11	23	4	12.5	4.5	12	4	213.5	43
	-M IEC63B5	140	115	95	9							4		
	-M IEC71B14G	140	115	95	9	14	30	5	16	5	12	4	217.5	47
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14K	120	100	80	7							4		
	-M IEC80B14G	160	130	110	9	19	40	6	21.5	7	12	4.5	226.5	56
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14K	140	115	95	9							4		
	-M IEC90B14G	160	130	110	9	24	40	8	27	9	12	4.5	239	68.5
	-M IEC90B5	200	165	130	11							4.5		

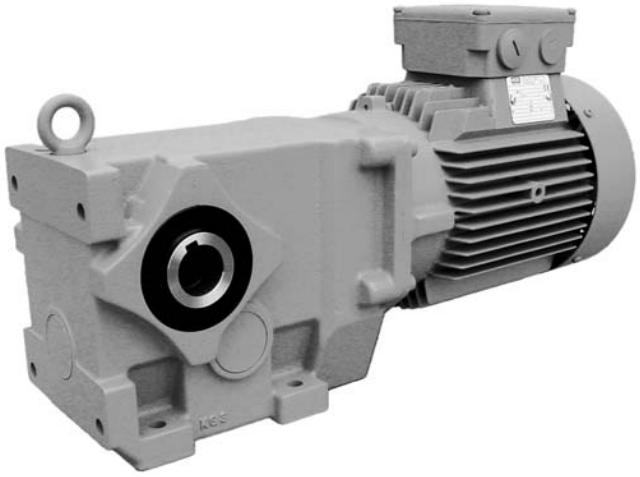
Reductores de tornillo sin fin S con adaptador para servomotores



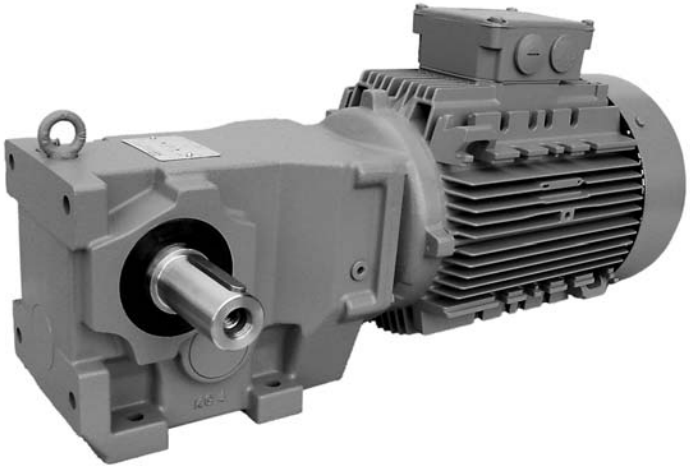
Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m8	l8	l9
S1.2	**-M S4B**	70	75	60	M5	11	23	4	12.2	4.5	3.5	140.5	46.5
	-M S4C	92	100	80	M6	14	30	5	16	5	4	144.5	50.5
	-M S4D	110	115	95	M8	19	40	6	21.5	7	4	153.5	59.5
S2.2	**-M S4B**	70	75	60	M5	11	23	4	12.2	4.5	3.5	149	43
	-M S4C	92	100	80	M6	14	30	5	16	5	4	153	47
	-M S4D	110	115	95	M8	19	40	6	21.5	7	4	162	56
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	174.5	68.5
S3.2	**-M S4C**	92	100	80	M6	14	30	5	16	5	4	191.5	58.5
	-M S4D	110	115	95	M8	19	40	6	21.5	7	4	201.5	68.5
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	212.5	79.5
S3.3	**-M S4B**	70	75	60	M5	11	23	4	12.2	4.5	3.5	196.5	46.5
	-M S4C	92	100	80	M6	14	30	5	16	5	4	200.5	50.5
	-M S4D	110	115	95	M8	19	40	6	21.5	7	4	209.5	59.5
S4.2	**-M S4D**	110	115	95	M8	19	40	6	21.5	7	4	218	63
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	229	74
	-M S4F	190	215	180	M12	32	58	10	35	9	5	237	82
S4.3	**-M S4B**	70	75	60	M5	11	23	4	12.2	4.5	3.5	213.5	43
	-M S4C	92	100	80	M6	14	30	5	16	5	4	217.5	47
	-M S4D	110	115	95	M8	19	40	6	21.5	7	4	226.5	56
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	239	68.5

Motorreductores de engranajes cónicos K

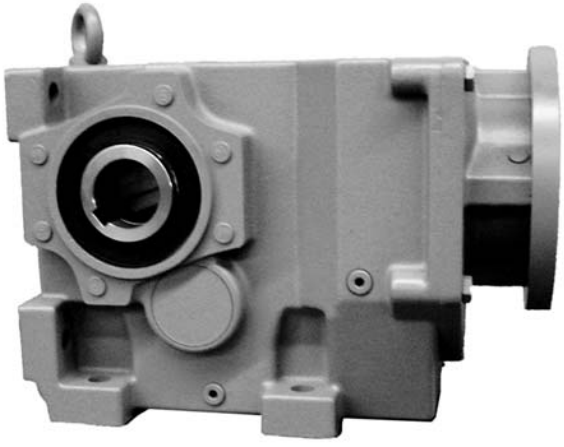
K3.3A DA100L4



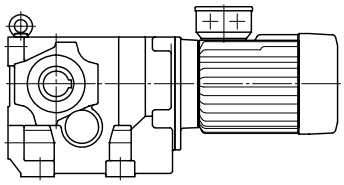
K4.3AV DA132M4



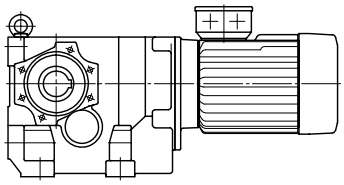
K5.3B –M IEC90B5



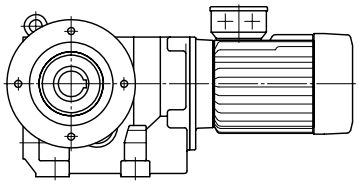
Motorreductores de engranajes cónicos K



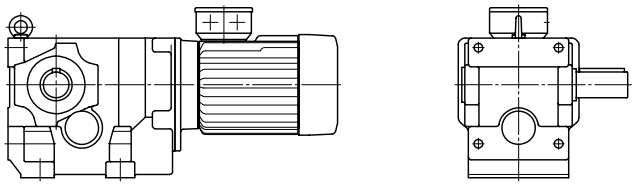
Versión con pie
con eje hueco y chavetero
Ejemplo: K6.3**A** DA132M4



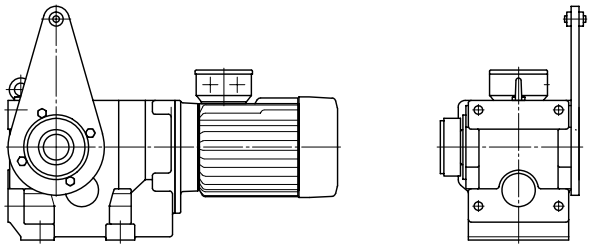
Versión con brida B14
con eje hueco y chavetero
Ejemplo: K4.4**B** DA80G4



Versión con brida B5
con eje hueco y chavetero
Ejemplo: K5.3**C** DA112M4

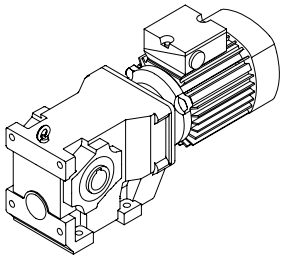


Versión con pie
con eje sólido y chaveta
Ejemplo: K7.3**AV** DA180M4



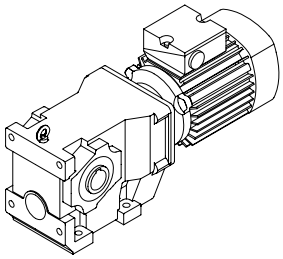
Versión con eje hueco
con eje hueco y disco de apriete
con brazo de par T1
Ejemplo: K6.3**BT1S** DA160M4

Motorreductores de engranajes cónicos K



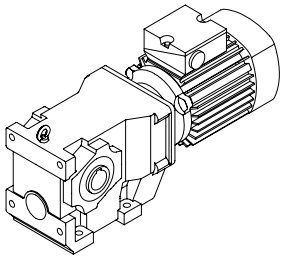
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.12									
	0.24	4750	0.9	5850.3	46000	420800	**K7.4/G1.2A DL63K4**	146/147	158
	0.27	4320	1.0	5317.2	46000	410000	**K7.4/G1.2B DL63K4**		158
	0.31	3720	1.1	4582.3	46000	393600	**K7.4/G1.2C DL63K4**		175
	0.34	3380	1.2	4164.8	46000	383300			
	0.38	2990	1.4	3682.7	46000	370300			
	0.42	2720	1.5	3347.1	46000	360500			
	0.47	2460	1.7	3021.3	46000	350300			
	0.51	2230	1.9	2746.0	46000	340900			
	0.59	1940	2.2	2390.0	46000	327700			
	0.65	1770	2.4	2172.2	46000	318900			
	0.71	1600	2.6	1972.9	46000	310200			
	0.79	1460	2.9	1793.1	46000	301800			
	0.39	2980	0.8	3661.3	21200	17500	**K6.4/G1.2A DL63K4**	145/147	102
	0.42	2700	0.9	3327.7	21200	18100	**K6.4/G1.2B DL63K4**		102
	0.49	2330	1.1	2867.8	21200	19000	**K6.4/G1.2C DL63K4**		108
	0.54	2120	1.2	2606.5	21200	19500			
	0.61	1870	1.3	2304.8	21200	20100			
	0.67	1700	1.5	2094.8	21200	20500			
	0.75	1540	1.6	1890.9	21200	20900			
	0.82	1400	1.8	1718.6	21200	21200			
	0.94	1220	2.1	1495.8	21200	21600			
	1.0	1100	2.3	1359.5	21200	21900			
	1.1	1000	2.5	1234.7	21200	22100			
	1.3	910	2.7	1122.2	21200	22400			
	0.76	1500	0.8	1844.7	15300	11800	**K5.4/G1.2A DL63K4**	144/147	63
	0.84	1360	0.9	1676.6	15300	12200	**K5.4/G1.2B DL63K4**		63
	0.93	1230	1.0	1513.4	15300	12600	**K5.4/G1.2C DL63K4**		67
	1.0	1120	1.1	1375.5	15300	12900			
	1.2	975	1.2	1197.2	15300	13400			
	1.3	885	1.4	1088.1	15300	13600			
	1.4	805	1.5	988.23	15300	13900			
	1.6	730	1.6	898.17	15300	14100			
	1.9	610	2.0	752.41	15300	14400			
	2.1	555	2.2	683.85	15300	14600			
	2.4	480	2.5	589.34	15300	14800			
	2.6	435	2.8	535.64	15300	15000			
	2.0	580	2.1	713.09	15300	14500	**K5.4A DL63K4**	144	59
	2.5	470	2.6	575.47	15300	14900	**K5.4B DL63K4**		59
							K5.4C DL63K4		62
	1.4	830	0.8	1023.8	10300	8670	**K4.3/G1.2A DL63K4**	143/147	39
	1.5	750	0.9	924.10	10300	8950	**K4.3/G1.2B DL63K4**		39
	1.7	685	1.0	839.89	10300	9190	**K4.3/G1.2C DL63K4**		41
	1.9	595	1.1	731.01	10300	9510			
	2.1	540	1.2	664.39	10300	9700			
	2.3	490	1.3	603.43	10300	9870			
	2.6	445	1.5	548.44	10300	10000			
	3.1	375	1.7	459.44	10300	10300			
	3.4	340	1.9	417.57	10300	10400			
	3.9	290	2.2	359.86	10300	10600			
	4.3	265	2.4	327.07	10300	10700			
	2.2	530	1.1	655.04	10300	9720	**K4.4A DL63K4**	143	36
	2.4	470	1.2	576.32	10300	9950	**K4.4B DL63K4**		36
	3.0	375	1.5	463.43	10300	10300	**K4.4C DL63K4**		38
	3.7	315	1.8	386.19	10300	10500			
	4.7	240	2.4	297.07	10300	10700			

Motorreductores de engranajes cónicos K



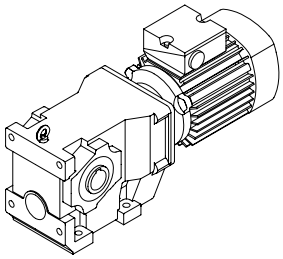
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.12									
	2.6	445	0.8	544.86	6060	1770	**K3.3/G1.2A DL63K4**	142/147	28
	2.8	400	0.9	494.86	6060	1940	**K3.3/G1.2B DL63K4**		28
	3.1	365	0.9	449.76	6060	2100	**K3.3/G1.2C DL63K4**		30
	3.7	305	1.1	376.77	6060	2350			
	4.1	280	1.2	342.44	6060	2470			
	4.8	240	1.4	295.11	6060	2630			
	5.3	220	1.6	268.22	6060	2730			
	6.5	177	2.0	217.28	6060	2900	**K3.4A DL63K4**	142	26
	8.3	138	2.5	169.88	6060	3060	**K3.4B DL63K4**		26
							K3.4C DL63K4		28
	21	55	4.3	67.56	6060	3420	**K3.3A DL63K4**	142	24
	25	46	5.9	56.30	6060	3460	**K3.3B DL63K4**		24
	32	36	9.4	43.85	6060	3500	**K3.3C DL63K4**		26
	40	29	11.9	35.56	6060	3530			
	54	21	16.2	26.13	5660	3560			
	67	17	20.1	21.08	5300	3580			
	79	14	23.9	17.78	5020	3590			
	106	11	31.8	13.33	4580	3600			
	125	9.2	37.7	11.26	4340	3610			
0.18									
	0.34	5080	0.8	4164.8	46000	377300	**K7.4/G1.2A DL63G4**	146/147	158
	0.38	4490	0.9	3682.7	46000	365000	**K7.4/G1.2B DL63G4**		158
	0.42	4080	1.0	3347.1	46000	355700	**K7.4/G1.2C DL63G4**		175
	0.47	3680	1.1	3021.3	46000	345900			
	0.51	3350	1.3	2746.0	46000	337000			
	0.59	2910	1.4	2390.0	46000	324300			
	0.65	2650	1.6	2172.2	46000	315800			
	0.71	2410	1.7	1972.9	46000	307400			
	0.79	2190	1.9	1793.1	46000	299200			
	0.94	1830	2.3	1502.1	46000	284600			
	1.0	1660	2.5	1365.2	46000	277000			
	1.2	1430	2.9	1176.5	46000	265400			
	0.54	3180	0.8	2606.5	21200	17000	**K6.4/G1.2A DL63G4**	145/147	102
	0.61	2810	0.9	2304.8	21200	17900	**K6.4/G1.2B DL63G4**		102
	0.67	2550	1.0	2094.8	21200	18500	**K6.4/G1.2C DL63G4**		108
	0.75	2310	1.1	1890.9	21200	19100			
	0.82	2100	1.2	1718.6	21200	19600			
	0.94	1820	1.4	1495.8	21200	20200			
	1.0	1660	1.5	1359.5	21200	20600			
	1.1	1510	1.7	1234.7	21200	21000			
	1.3	1370	1.8	1122.2	21200	21300			
	1.5	1150	2.2	940.08	21200	21800			
	1.7	1040	2.4	854.41	21200	22100			
	1.9	900	2.8	736.33	21200	22400			
	1.2	1460	0.8	1197.2	15300	11900	**K5.4/G1.2A DL63G4**	144/147	63
	1.3	1330	0.9	1088.1	15300	12300	**K5.4/G1.2B DL63G4**		63
	1.4	1200	1.0	988.23	15300	12700	**K5.4/G1.2C DL63G4**		67
	1.6	1100	1.1	898.17	15300	13000			
	1.9	915	1.3	752.41	15300	13500			
	2.1	835	1.4	683.85	15300	13800			
	2.4	720	1.7	589.34	15300	14100			
	2.6	655	1.8	535.64	15300	14300			
	2.0	870	1.4	713.09	15300	13700	**K5.4A DL63G4**	144	59
	2.5	700	1.7	575.47	15300	14200	**K5.4B DL63G4**		59
	3.0	580	2.1	475.39	15300	14500	**K5.4C DL63G4**		62
	3.8	450	2.7	369.05	15300	14900			

Motorreductores de engranajes cónicos K



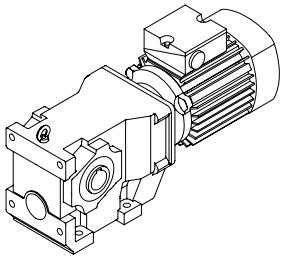
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.18									
	2.1	810	0.8	664.39	10300	8750	**K4.3/G1.2A DL63G4**	143/147	39
	2.3	735	0.9	603.43	10300	9010	**K4.3/G1.2B DL63G4**		39
	2.6	670	1.0	548.44	10300	9240	**K4.3/G1.2C DL63G4**		41
	3.1	560	1.2	459.44	10300	9630			
	3.4	510	1.3	417.57	10300	9810			
	3.9	440	1.5	359.86	10300	10100			
	4.3	400	1.6	327.07	10300	10200			
	2.4	705	0.8	576.32	10300	9120	**K4.4A DL63G4**	143	36
	3.0	565	1.0	463.43	10300	9610	**K4.4B DL63G4**		36
	3.7	470	1.2	386.19	10300	9940	**K4.4C DL63G4**		38
	4.7	360	1.6	297.07	10300	10300			
	6.8	255	2.3	207.95	10300	10700			
	8.3	210	2.8	170.60	10300	10900			
	4.1	415	0.8	342.44	6060	1880	**K3.3/G1.2A DL63G4**	142/147	28
	4.8	360	1.0	295.11	6060	2120	**K3.3/G1.2B DL63G4**		28
	5.3	325	1.1	268.22	6060	2260	**K3.3/G1.2C DL63G4**		30
	6.5	265	1.3	217.28	6060	2530	**K3.4A DL63G4**	142	26
	8.3	205	1.7	169.88	6060	2770	**K3.4B DL63G4**		26
	10	169	2.0	138.27	6060	2930	**K3.4C DL63G4**		28
	14	125	2.8	102.72	6060	3120			
	21	82	2.8	67.56	6060	3300	**K3.3A DL63G4**	142	24
	25	69	4.0	56.30	6060	3360	**K3.3B DL63G4**		24
	32	53	6.3	43.85	6060	3420	**K3.3C DL63G4**		26
	40	43	8.0	35.56	6060	3470			
	54	32	10.8	26.13	5560	3510			
	67	26	13.4	21.08	5210	3540			
	79	22	15.9	17.78	4950	3560			
	106	16	21.2	13.33	4530	3580			
	125	14	25.1	11.26	4300	3590			
0.25									
	0.46	5210	0.8	3021.3	46000	342400	**K7.4/G1.2A DL71K4**	146/147	158
	0.50	4730	0.9	2746.0	46000	333900	**K7.4/G1.2B DL71K4**		158
	0.58	4120	1.0	2390.0	46000	321800	**K7.4/G1.2C DL71K4**		175
	0.64	3740	1.1	2172.2	46000	313600			
	0.70	3400	1.2	1972.9	46000	305500			
	0.77	3090	1.4	1793.1	46000	297700			
	0.92	2590	1.6	1502.1	46000	283500			
	1.0	2350	1.8	1365.2	46000	276000			
	1.2	2030	2.1	1176.5	46000	264800			
	1.3	1840	2.3	1069.3	46000	257800			
	0.73	3260	0.8	1890.9	21200	16800	**K6.4/G1.2A DL71K4**	145/147	102
	0.81	2960	0.8	1718.6	21200	17500	**K6.4/G1.2B DL71K4**		102
	0.93	2580	1.0	1495.8	21200	18400	**K6.4/G1.2C DL71K4**		108
	1.0	2340	1.1	1359.5	21200	19000			
	1.1	2130	1.2	1234.7	21200	19500			
	1.2	1930	1.3	1122.2	21200	20000			
	1.5	1620	1.5	940.08	21200	20700			
	1.6	1470	1.7	854.41	21200	21000			
	1.9	1270	2.0	736.33	21200	21500			
	2.1	1150	2.2	669.23	21200	21800			
	1.5	1550	0.8	898.17	15300	11700	**K5.4/G1.2A DL71K4**	144/147	63
	1.8	1300	0.9	752.41	15300	12400	**K5.4/G1.2B DL71K4**		63
	2.0	1180	1.0	683.85	15300	12700	**K5.4/G1.2C DL71K4**		67
	2.4	1020	1.2	589.34	15300	13200			
	2.6	925	1.3	535.64	15300	13500			

Motorreductores de engranajes cónicos K



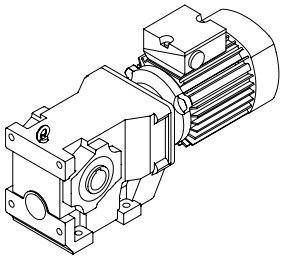
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.25									
	1.9	1230	1.0	713.09	15300	12600	**K5.4A DL71K4**	144	59
	2.4	990	1.2	575.47	15300	13300	**K5.4B DL71K4**		59
	2.9	820	1.5	475.39	15300	13800	**K5.4C DL71K4**		62
	3.8	635	1.9	369.05	15300	14400			
	4.6	520	2.4	300.25	15300	14700			
	3.0	790	0.8	459.44	10300	8810	**K4.3/G1.2A DL71K4**	143/147	39
	3.3	720	0.9	417.57	10300	9060	**K4.3/G1.2B DL71K4**		39
	3.8	620	1.0	359.86	10300	9410	**K4.3/G1.2C DL71K4**		41
	4.2	565	1.2	327.07	10300	9610			
	3.6	665	0.9	386.19	10300	9250	**K4.4A DL71K4**	143	36
	4.7	510	1.1	297.07	10300	9800	**K4.4B DL71K4**		36
	6.7	360	1.6	207.95	10300	10300	**K4.4C DL71K4**		38
	8.1	295	2.0	170.60	10300	10600			
	10	235	2.5	134.96	10300	10800			
	12	192	3.0	111.40	10300	10900			
	6.4	375	0.9	217.28	6060	2060	**K3.4A DL71K4**	142	26
	8.2	295	1.2	169.88	6060	2410	**K3.4B DL71K4**		26
	10	240	1.4	138.27	6060	2640	**K3.4C DL71K4**		28
	13	177	1.9	102.72	6060	2900			
	18	136	2.5	79.01	6060	3070			
	21	116	2.0	67.56	6060	3160	**K3.3A DL71K4**	142	24
	25	97	2.8	56.30	6060	3240	**K3.3B DL71K4**		24
	32	76	4.4	43.85	6060	3330	**K3.3C DL71K4**		26
	39	61	5.6	35.56	5940	3390			
	53	45	7.7	26.13	5460	3460			
	66	36	9.5	21.08	5140	3500			
	78	31	11.3	17.78	4890	3520			
	104	23	15.0	13.33	4490	3550			
	123	19	17.8	11.26	4270	3570			
0.37									
	0.70	5050	0.8	1972.9	46000	300000	**K7.4/G1.2A DL71G4**	146/147	159
	0.77	4590	0.9	1793.1	46000	292700	**K7.4/G1.2B DL71G4**		159
	0.92	3850	1.1	1502.1	46000	279300	**K7.4/G1.2C DL71G4**		176
	1.0	3500	1.2	1365.2	46000	272300			
	1.2	3010	1.4	1176.5	46000	261600			
	1.3	2740	1.5	1069.3	46000	254900			
	1.1	3160	0.8	1234.7	21200	17100	**K6.4/G1.2A DL71G4**	145/147	103
	1.2	2870	0.9	1122.2	21200	17700	**K6.4/G1.2B DL71G4**		103
	1.5	2410	1.0	940.08	21200	18800	**K6.4/G1.2C DL71G4**		108
	1.6	2190	1.1	854.41	21200	19400			
	1.9	1890	1.3	736.33	21200	20100			
	2.1	1710	1.5	669.23	21200	20500			
	2.3	1510	0.8	589.34	15300	11800	**K5.4/G1.2A DL71G4**	144/147	64
	2.6	1370	0.9	535.64	15300	12200	**K5.4/G1.2B DL71G4**		64
							K5.4/G1.2C DL71G4		68
	2.4	1470	0.8	575.47	15300	11900	**K5.4A DL71G4**	144	60
	2.9	1220	1.0	475.39	15300	12600	**K5.4B DL71G4**		60
	3.7	945	1.3	369.05	15300	13400	**K5.4C DL71G4**		63
	4.6	770	1.6	300.25	15300	14000			
	6.4	550	2.2	214.46	15300	14600			
	7.9	445	2.7	174.25	15300	14900			

Motorreductores de engranajes cónicos K



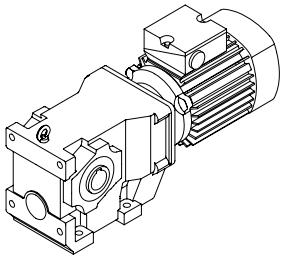
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.37									
	4.2	835	0.8	327.07	10300	8650	**K4.3/G1.2A DL71G4**	143/147	40
							K4.3/G1.2B DL71G4		40
							K4.3/G1.2C DL71G4		42
	6.6	530	1.1	207.95	10300	9720	**K4.4A DL71G4**	143	37
	8.1	435	1.3	170.60	10300	10100	**K4.4B DL71G4**		37
	10	345	1.7	134.96	10300	10400	**K4.4C DL71G4**		39
	12	285	2.0	111.40	10300	10600			
	16	215	2.7	84.82	10300	10800			
	8.1	435	0.8	169.88	6060	1800	**K3.4A DL71G4**	142	27
	10.0	355	1.0	138.27	6060	2150	**K3.4B DL71G4**		27
	13	265	1.3	102.72	6060	2530	**K3.4C DL71G4**		29
	17	200	1.7	79.01	6060	2790			
	20	173	1.4	67.56	6060	2920	**K3.3A DL71G4**	142	24
	25	144	1.9	56.30	6060	3040	**K3.3B DL71G4**		24
	31	112	3.0	43.85	5930	3170	**K3.3C DL71G4**		27
	39	91	3.8	35.56	5660	3260			
	53	67	5.2	26.13	5260	3370			
	65	54	6.4	21.08	4970	3420			
	78	46	7.6	17.78	4750	3460			
	104	34	10.1	13.33	4390	3510			
	123	29	12.0	11.26	4180	3530			
0.55									
	1.0	5160	0.8	1365.2	46000	265800	**K7.4/G1.2A DA80K4**	146/147	162
	1.2	4450	0.9	1176.5	46000	255900	**K7.4/G1.2B DA80K4**		162
	1.3	4040	1.0	1069.3	46000	249700	**K7.4/G1.2C DA80K4**		178
	1.3	3960	0.9	1049.0	46000	248400	**K7.4A DA80K4**	146	156
	1.6	3300	1.3	874.13	46000	236800	**K7.4B DA80K4**		156
	2.0	2570	1.6	680.90	46000	221400	**K7.4C DA80K4**		172
	2.5	2090	2.0	552.08	46000	209100			
	3.4	1530	2.7	405.78	46000	192000			
	1.6	3230	0.8	854.41	21200	16900	**K6.4/G1.2A DA80K4**	145/147	106
	1.9	2780	0.9	736.33	21200	18000	**K6.4/G1.2B DA80K4**		106
	2.1	2530	1.0	669.23	21200	18600	**K6.4/G1.2C DA80K4**		111
	2.1	2480	0.9	656.48	21200	18700	**K6.4A DA80K4**	145	102
	2.5	2070	1.2	547.07	21200	19600	**K6.4B DA80K4**		102
	3.3	1610	1.6	426.14	21200	20700	**K6.4C DA80K4**		107
	4.0	1310	1.9	345.52	21200	21400			
	5.5	960	2.6	253.95	21200	22200			
	3.8	1390	0.9	369.05	15300	12100	**K5.4A DA80K4**	144	63
	4.6	1130	1.1	300.25	15300	12900	**K5.4B DA80K4**		63
	6.5	810	1.5	214.46	15300	13800	**K5.4C DA80K4**		66
	8.0	660	1.9	174.25	15300	14300			
	9.6	550	2.2	145.43	15300	14600			
	13	420	2.9	110.65	15300	15000			
	8.1	645	0.9	170.60	10300	9330	**K4.4A DA80K4**	143	40
	10	510	1.1	134.96	10300	9800	**K4.4B DA80K4**		40
	12	420	1.4	111.40	10300	10100	**K4.4C DA80K4**		42
	16	320	1.8	84.82	10300	10500			
	21	250	2.3	66.44	10300	10700			
	27	191	3.0	50.66	10300	10900			

Motorreductores de engranajes cónicos K



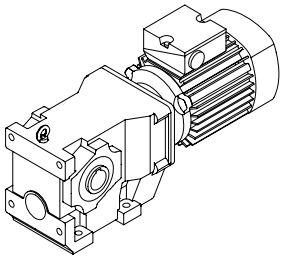
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.55									
	20	260	1.7	68.16	10300	10700	**K4.3A DA80K4**	143	37
	26	200	2.6	53.47	10300	10900	**K4.3B DA80K4**		37
							K4.3C DA80K4		39
	14	390	0.9	102.72	5510	2000	**K3.4A DA80K4**	142	30
	18	300	1.2	79.01	5610	2380	**K3.4B DA80K4**		30
							K3.4C DA80K4		32
	21	255	0.9	67.56	5600	2570	**K3.3A DA80K4**	142	27
	25	215	1.3	56.30	5540	2750	**K3.3B DA80K4**		27
	32	166	2.0	43.85	5390	2950	**K3.3C DA80K4**		30
	39	134	2.6	35.56	5220	3080			
	53	99	3.5	26.13	4930	3230			
	66	80	4.3	21.08	4710	3310			
	78	67	5.1	17.78	4530	3360			
	104	50	6.8	13.33	4220	3440			
	123	43	8.1	11.26	4040	3470			
0.75									
	1.3	5430	0.8	1069.3	46000	243600	**K7.4/G1.2A DA80G4**	146/147	164
							K7.4/G1.2B DA80G4		164
							K7.4/G1.2C DA80G4		180
	1.6	4440	0.9	874.13	46000	231700	**K7.4A DA80G4**	146	158
	2.1	3460	1.2	680.90	46000	217300	**K7.4B DA80G4**		158
	2.6	2800	1.5	552.08	46000	205600	**K7.4C DA80G4**		174
	3.5	2060	2.0	405.78	46000	189300			
	4.3	1660	2.5	327.31	46000	178400			
	5.1	1400	3.0	276.04	46000	170100			
	2.6	2780	0.9	547.07	21200	18000	**K6.4A DA80G4**	145	104
	3.3	2160	1.2	426.14	21200	19400	**K6.4B DA80G4**		104
	4.1	1760	1.4	345.52	21200	20400	**K6.4C DA80G4**		109
	5.6	1290	2.0	253.95	21200	21500			
	6.9	1040	2.4	204.84	21200	22100			
	8.2	880	2.9	172.76	21200	22400			
	4.7	1530	0.8	300.25	15300	11700	**K5.4A DA80G4**	144	65
	6.6	1090	1.1	214.46	15300	13000	**K5.4B DA80G4**		65
	8.1	885	1.4	174.25	15300	13600	**K5.4C DA80G4**		68
	9.7	740	1.7	145.43	15300	14100			
	13	560	2.2	110.65	15300	14600			
	16	445	2.7	87.57	15300	14900			
	10	685	0.8	134.96	10300	9180	**K4.4A DA80G4**	143	43
	13	565	1.0	111.40	10300	9610	**K4.4B DA80G4**		43
	17	430	1.3	84.82	10300	10100	**K4.4C DA80G4**		45
	21	335	1.7	66.44	10300	10400			
	28	255	2.2	50.66	9760	10700			
	21	345	1.2	68.16	10300	10400	**K4.3A DA80G4**	143	39
	26	270	1.9	53.47	9860	10600	**K4.3B DA80G4**		39
	32	220	2.9	43.48	9460	10800	**K4.3C DA80G4**		41
	18	400	0.9	79.01	4560	1950	**K3.4A DA80G4**	142	32
							K3.4B DA80G4		32
							K3.4C DA80G4		34

Motorreductores de engranajes cónicos K



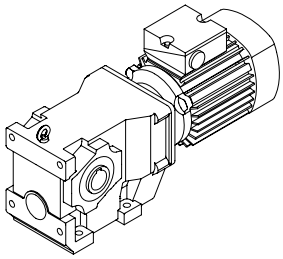
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.75									
	25	285	1.0	56.30	4790	2440	**K3.3A DA80G4**	142	29
	32	225	1.5	43.85	4800	2700	**K3.3B DA80G4**		29
	40	181	1.9	35.56	4740	2880	**K3.3C DA80G4**		32
	54	133	2.6	26.13	4570	3090			
	67	107	3.2	21.08	4420	3200			
	79	90	3.8	17.78	4280	3270			
	106	68	5.1	13.33	4030	3360			
	125	57	6.0	11.26	3870	3410			
1.1									
	2.0	5150	0.8	680.90	46000	212300	**K7.4A DA90S4**	146	159
	2.5	4170	1.0	552.08	46000	201700	**K7.4B DA90S4**		159
	3.4	3070	1.4	405.78	46000	186500	**K7.4C DA90S4**		176
	4.2	2470	1.7	327.31	46000	176300			
	5.0	2090	2.0	276.04	46000	168500			
	6.7	1560	2.7	207.03	46000	155800			
	3.3	3220	0.8	426.14	21200	16900	**K6.4A DA90S4**	145	105
	4.0	2610	1.0	345.52	21200	18400	**K6.4B DA90S4**		105
	5.5	1920	1.3	253.95	21200	20000	**K6.4C DA90S4**		111
	6.8	1550	1.6	204.84	21200	20900			
	8.0	1310	1.9	172.76	21200	21400			
	11	980	2.6	129.57	21200	22200			
	8.0	1320	0.9	174.25	15300	12300	**K5.4A DA90S4**	144	66
	9.6	1100	1.1	145.43	15300	13000	**K5.4B DA90S4**		66
	13	835	1.5	110.65	15300	13800	**K5.4C DA90S4**		70
	16	660	1.8	87.57	15200	14300			
	17	610	2.0	80.42	15000	14400			
	19	540	2.3	71.31	14700	14600			
	23	450	2.7	59.71	14200	14900			
	26	400	3.0	53.08	13800	15100			
	16	640	0.9	84.82	9070	9340	**K4.4A DA90S4**	143	44
	21	500	1.2	66.44	9040	9830	**K4.4B DA90S4**		44
							K4.4C DA90S4		46
	20	515	0.8	68.16	9050	9780	**K4.3A DA90S4**	143	40
	26	405	1.3	53.47	8900	10200	**K4.3B DA90S4**		40
	32	330	1.9	43.48	8680	10400	**K4.3C DA90S4**		42
	43	245	2.9	32.26	8270	10700			
	32	330	1.0	43.85	3770	2240	**K3.3A DA90S4**	142	31
	39	270	1.3	35.56	3910	2510	**K3.3B DA90S4**		31
	53	198	1.7	26.13	3970	2810	**K3.3C DA90S4**		33
	66	159	2.2	21.08	3930	2970			
	78	134	2.6	17.78	3870	3080			
	104	101	3.4	13.33	3730	3220			
	123	85	4.1	11.26	3620	3290			
	158	67	5.2	8.82	3450	3370			
	200	52	6.6	6.93	3280	3430			
	268	39	8.8	5.18	3060	3480			
	359	29	10.7	3.87	2830	3530			
1.5									
	3.5	4140	1.0	405.78	46000	182100	**K7.4A DA90L4**	146	161
	4.3	3340	1.3	327.31	46000	172600	**K7.4B DA90L4**		161
	5.1	2810	1.5	276.04	46000	165300	**K7.4C DA90L4**		178
	6.8	2110	2.0	207.03	46000	153300			
	8.0	1780	2.3	174.83	46000	146500			
	10	1400	3.0	136.96	46000	137100			

Motorreductores de engranajes cónicos K



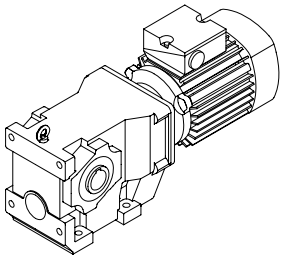
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
1.5									
	5.5	2590	1.0	253.95	21200	18400	**K6.4A DA90L4**	145	107
	6.9	2090	1.2	204.84	21200	19600	**K6.4B DA90L4**		107
	8.1	1760	1.4	172.76	21200	20400	**K6.4C DA90L4**		113
	11	1320	1.9	129.57	21200	21400			
	13	1120	2.3	109.41	21200	21900			
	16	875	2.9	85.71	21200	22400			
	9.7	1480	0.8	145.43	13700	11800	**K5.4A DA90L4**	144	68
	13	1130	1.1	110.65	13900	12900	**K5.4B DA90L4**		68
	16	895	1.4	87.57	13800	13600	**K5.4C DA90L4**		72
	17	820	1.5	80.42	13700	13800			
	20	725	1.7	71.31	13500	14100			
	24	610	2.0	59.71	13200	14400			
	26	540	2.3	53.08	12900	14600			
	36	400	3.0	39.41	12200	15100			
	20	700	1.3	68.74	13400	14200	**K5.3A DA90L4**	144	63
	25	575	1.7	56.30	13100	14500	**K5.3B DA90L4**		63
	33	430	2.8	42.13	12400	15000	**K5.3C DA90L4**		67
	21	675	0.9	66.44	7650	9210	**K4.4A DA90L4**	143	46
							K4.4B DA90L4		46
							K4.4C DA90L4		48
	26	545	1.0	53.47	7770	9680	**K4.3A DA90L4**	143	42
	32	445	1.4	43.48	7760	10000	**K4.3B DA90L4**		42
	44	330	2.2	32.26	7580	10400	**K4.3C DA90L4**		44
	51	280	2.6	27.50	7430	10600			
	63	225	2.4	22.26	7190	10800			
	40	365	1.0	35.56	2970	2110	**K3.3A DA90L4**	142	33
	54	265	1.3	26.13	3270	2520	**K3.3B DA90L4**		33
	67	215	1.6	21.08	3370	2740	**K3.3C DA90L4**		35
	79	181	1.9	17.78	3400	2880			
	105	136	2.5	13.33	3370	3070			
	125	115	3.0	11.26	3320	3160			
	159	90	3.8	8.82	3210	3270			
	203	71	4.9	6.93	3080	3350			
	271	53	6.5	5.18	2910	3430			
	363	39	7.9	3.87	2720	3480			
2.2									
	5.0	4170	1.0	276.04	46000	161100	**K7.4A DA100L4**	146	163
	6.7	3130	1.3	207.03	46000	150200	**K7.4B DA100L4**		163
	8.0	2640	1.6	174.83	46000	144000	**K7.4C DA100L4**		180
	10	2070	2.0	136.96	46000	135200			
	13	1630	2.6	107.66	46000	126800			
	8.0	2610	1.0	172.76	19700	18400	**K6.4A DA100L4**	145	109
	11	1960	1.3	129.57	19900	19900	**K6.4B DA100L4**		109
	13	1650	1.5	109.41	19800	20600	**K6.4C DA100L4**		114
	16	1300	2.0	85.71	19400	21500			
	21	1020	2.5	67.38	18700	22100			
	16	1320	0.9	87.57	11200	12300	**K5.4A DA100L4**	144	70
							K5.4B DA100L4		70
							K5.4C DA100L4		73

Motorreductores de engranajes cónicos K



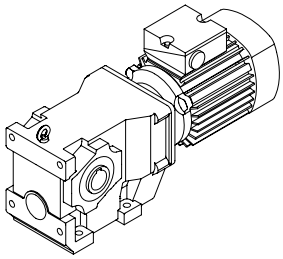
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
2.2									
	20	1040	0.8	68.74	11500	13200	**K5.3A DA100L4**	144	65
	25	850	1.2	56.30	11500	13700	**K5.3B DA100L4**		65
	33	635	1.9	42.13	11200	14400	**K5.3C DA100L4**		68
	39	540	2.3	35.73	11000	14600			
	48	435	2.8	28.89	10600	15000			
	32	655	1.0	43.48	6150	9280	**K4.3A DA100L4**	143	44
	43	490	1.5	32.26	6390	9880	**K4.3B DA100L4**		44
	51	415	1.7	27.50	6420	10100	**K4.3C DA100L4**		46
	62	335	1.6	22.26	6380	10400			
	83	255	2.8	16.75	6210	10100			
	53	395	0.9	26.13	2040	1970	**K3.3A DA100L4**	142	35
	78	270	1.3	17.78	2560	2510	**K3.3B DA100L4**		35
	104	200	1.7	13.33	2740	2790	**K3.3C DA100L4**		37
	123	170	2.0	11.26	2790	2930			
	158	133	2.6	8.82	2800	3080			
	200	105	3.3	6.93	2770	3210			
	268	78	4.4	5.18	2670	3320			
	359	58	5.3	3.87	2550	3400			
3.0									
	6.8	4210	1.0	207.03	46000	145700	**K7.4A DA100LX4**	146	170
	8.1	3550	1.2	174.83	46000	140100	**K7.4B DA100LX4**		170
	10	2780	1.5	136.96	46000	132000	**K7.4C DA100LX4**		187
	13	2190	1.9	107.66	46000	124300			
	18	1630	2.6	80.45	46000	115200			
	13	2250	1.2	110.79	46000	125200	**K7.3A DA100LX4**	146	159
	17	1680	1.8	82.81	46000	116100	**K7.3B DA100LX4**		159
	20	1440	2.6	70.98	46000	111400	**K7.3C DA100LX4**		176
	11	2630	1.0	129.57	16500	18300	**K6.4A DA100LX4**	145	116
	13	2220	1.1	109.41	16900	19300	**K6.4B DA100LX4**		116
	16	1740	1.5	85.71	17100	20400	**K6.4C DA100LX4**		122
	21	1370	1.9	67.38	16900	21300			
	28	1020	2.5	50.35	16400	22100			
	20	1410	1.2	69.34	16900	21200	**K6.3A DA100LX4**	145	106
	27	1050	1.8	51.83	16500	22000	**K6.3B DA100LX4**		106
	32	905	2.6	44.42	16100	22400	**K6.3C DA100LX4**		112
	25	1140	0.9	56.30	9610	12900	**K5.3A DA100LX4**	144	72
	33	855	1.4	42.13	9830	13700	**K5.3B DA100LX4**		72
	39	725	1.7	35.73	9810	14100	**K5.3C DA100LX4**		75
	49	585	2.1	28.89	9670	14500			
	63	455	2.7	22.44	9400	14900			
	44	655	1.1	32.26	5050	9200	**K4.3A DA100LX4**	143	51
	51	560	1.3	27.50	5270	9270	**K4.3B DA100LX4**		51
	63	450	1.2	22.26	5440	9170	**K4.3C DA100LX4**		53
	84	340	2.1	16.75	5500	8810			
	108	265	2.7	13.00	5430	8370			
	124	230	3.0	11.39	5360	8110			
	79	360	1.0	17.78	1630	2120	**K3.3A DA100LX4**	142	41
	106	270	1.3	13.33	2040	2500	**K3.3B DA100LX4**		41
	125	230	1.5	11.26	2200	2680	**K3.3C DA100LX4**		43
	160	179	1.9	8.82	2340	2890			
	203	141	2.4	6.93	2390	3050			
	272	105	3.3	5.18	2390	3200			
	365	79	4.0	3.87	2340	3320			

Motorreductores de engranajes cónicos K



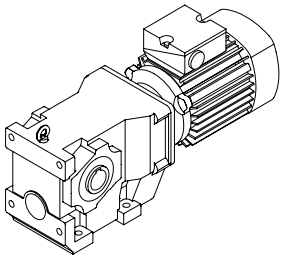
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
4.0									
	8.0	4770	0.9	174.83	46000	136100	**K7.4A DA112M4**	146	175
	10	3740	1.1	136.96	46000	128900	**K7.4B DA112M4**		175
	13	2940	1.4	107.66	46000	121900	**K7.4C DA112M4**		192
	17	2200	1.9	80.45	46000	113400			
	13	3020	0.9	110.79	46000	122700	**K7.3A DA112M4**	146	164
	17	2260	1.3	82.81	46000	114300	**K7.3B DA112M4**		164
	20	1940	1.9	70.98	46000	109900	**K7.3C DA112M4**		181
	24	1580	2.4	57.74	46000	104200			
	13	2990	0.8	109.41	13200	17500	**K6.4A DA112M4**	145	121
	16	2340	1.1	85.71	14200	19000	**K6.4B DA112M4**		121
	21	1840	1.4	67.38	14700	20200	**K6.4C DA112M4**		127
	28	1370	1.8	50.35	14800	21300			
	20	1890	0.9	69.34	14600	20100	**K6.3A DA112M4**	145	111
	27	1410	1.3	51.83	14800	21200	**K6.3B DA112M4**		111
	32	1210	1.9	44.42	14700	21700	**K6.3C DA112M4**		117
	39	985	2.4	36.14	14400	22200			
	33	1150	1.1	42.13	8100	12800	**K5.3A DA112M4**	144	77
	39	975	1.3	35.73	8340	13400	**K5.3B DA112M4**		77
	48	790	1.5	28.89	8500	13900	**K5.3C DA112M4**		80
	62	610	2.0	22.44	8480	14000			
	79	485	2.5	17.78	8340	13200			
	43	880	0.8	32.26	3340	6210	**K4.3A DA112M4**	143	56
	51	750	1.0	27.50	3820	6740	**K4.3B DA112M4**		56
	63	605	0.9	22.26	4270	7170	**K4.3C DA112M4**		58
	84	455	1.6	16.75	4620	7370			
	108	355	2.0	13.00	4750	7290			
	123	310	2.2	11.39	4760	7190			
	194	197	3.0	7.23	4630	6640			
	105	365	0.9	13.33	1150	2110	**K3.3A DA112M4**	142	46
	124	305	1.1	11.26	1440	2350	**K3.3B DA112M4**		46
	159	240	1.4	8.82	1740	2630	**K3.3C DA112M4**		48
	202	189	1.8	6.93	1930	2850			
	270	141	2.4	5.18	2050	3050			
	362	106	3.0	3.87	2080	3200			
5.5									
	11	5000	0.8	136.96	46000	123300	**K7.4A DA132S4**	146	191
							K7.4B DA132S4		191
							K7.4C DA132S4		208
	17	3020	1.0	82.81	46000	110500	**K7.3A DA132S4**	146	180
	20	2590	1.4	70.98	46000	106600	**K7.3B DA132S4**		180
	25	2110	1.8	57.74	46000	101400	**K7.3C DA132S4**		197
	32	1620	2.4	44.50	46000	94900			
	17	3130	0.8	85.71	10100	17200	**K6.4A DA132S4**	145	137
							K6.4B DA132S4		137
							K6.4C DA132S4		143
	28	1890	1.0	51.83	12200	20100	**K6.3A DA132S4**	145	127
	32	1620	1.4	44.42	12500	20700	**K6.3B DA132S4**		127
	40	1320	1.8	36.14	12600	21400	**K6.3C DA132S4**		132
	52	1020	2.4	27.85	12500	21400			

Motorreductores de engranajes cónicos K



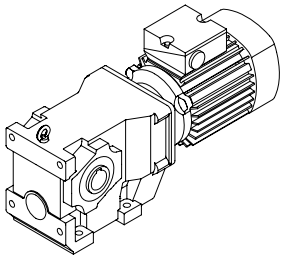
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
5.5									
	34	1540	0.8	42.13	5630	10300	**K5.3A DA132S4**	144	92
	40	1300	0.9	35.73	6240	11000	**K5.3B DA132S4**		92
	50	1050	1.2	28.89	6780	11400	**K5.3C DA132S4**		96
	64	820	1.5	22.44	7130	11500			
	81	650	1.9	17.78	7250	11300			
	104	505	2.4	13.87	7220	10900			
	122	430	2.8	11.78	7140	10500			
	86	610	1.2	16.75	3360	5410	**K4.3A DA132S4**	143	72
	111	475	1.5	13.00	3760	5780	**K4.3B DA132S4**		72
	126	415	1.7	11.39	3890	5870	**K4.3C DA132S4**		74
	172	305	2.3	8.37	4050	5870			
	211	250	2.9	6.82	4060	5770			
	280	188	3.8	5.14	3990	5530			
	372	141	5.1	3.87	3860	5230			
7.5									
	20	3530	1.0	70.98	46000	103200	**K7.3A DA132M4**	146	184
	25	2870	1.3	57.74	46000	98600	**K7.3B DA132M4**		184
	32	2210	1.8	44.50	46000	92800	**K7.3C DA132M4**		201
	43	1660	2.3	33.42	46000	86500			
	51	1400	2.9	28.05	46000	82700			
	32	2210	1.0	44.42	9620	17800	**K6.3A DA132M4**	145	131
	40	1800	1.3	36.14	10300	18200	**K6.3B DA132M4**		131
	52	1390	1.8	27.85	10700	18100	**K6.3C DA132M4**		137
	69	1040	2.3	20.91	10800	17400			
	82	875	2.9	17.56	10700	16900			
	50	1440	0.8	28.89	4470	7550	**K5.3A DA132M4**	144	97
	64	1120	1.1	22.44	5340	8540	**K5.3B DA132M4**		97
	81	885	1.4	17.78	5840	9000	**K5.3C DA132M4**		100
	104	690	1.8	13.87	6120	9140			
	122	585	2.1	11.78	6200	9090			
	169	425	2.9	8.53	6180	8770			
	86	835	0.9	16.75	1640	3000	**K4.3A DA132M4**	143	76
	111	645	1.1	13.00	2430	3900	**K4.3B DA132M4**		76
	126	565	1.2	11.39	2720	4220	**K4.3C DA132M4**		78
	172	415	1.7	8.37	3190	4680			
	211	340	2.1	6.82	3360	4810			
	280	255	2.8	5.14	3470	4820			
	372	192	3.7	3.87	3460	4700			
9.2									
	20	4360	0.8	70.98	46000	100500	**K7.3A DA132MX4**	146	188
	25	3550	1.1	57.74	46000	96500	**K7.3B DA132MX4**		188
	32	2730	1.4	44.50	46000	91200	**K7.3C DA132MX4**		205
	43	2050	1.8	33.42	46000	85300			
	51	1720	2.3	28.05	46000	81700			
	32	2730	0.8	44.42	7140	13400	**K6.3A DA132MX4**	145	135
	40	2220	1.1	36.14	8260	14700	**K6.3B DA132MX4**		135
	51	1710	1.4	27.85	9150	15400	**K6.3C DA132MX4**		141
	68	1280	1.8	20.91	9630	15500			
	81	1080	2.3	17.56	9730	15300			
	103	850	3.0	13.85	9700	14800			

Motorreductores de engranajes cónicos K



P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
9.2									
	64	1380	0.9	22.44	3790	6180	**K5.3A DA132MX4**	144	101
	80	1090	1.1	17.78	4610	7140	**K5.3B DA132MX4**		101
	103	850	1.4	13.87	5170	7710	**K5.3C DA132MX4**		104
	121	725	1.7	11.78	5390	7890			
	168	525	2.3	8.53	5600	7930			
	207	425	2.9	6.90	5600	7790			
	110	800	0.9	13.00	1270	2360	**K4.3A DA132MX4**	143	81
	126	700	1.0	11.39	1710	2870	**K4.3B DA132MX4**		81
	171	515	1.4	8.37	2450	3690	**K4.3C DA132MX4**		83
	210	420	1.7	6.82	2760	4000			
	278	315	2.3	5.14	3020	4220			
	370	240	3.0	3.87	3130	4260			
11.0									
	25	4140	0.9	57.74	46000	93600	**K7.3A DA160M4**	146	207
	33	3190	1.2	44.50	46000	88800	**K7.3B DA160M4**		207
	44	2400	1.6	33.42	46000	83400	**K7.3C DA160M4**		224
	52	2010	2.0	28.05	46000	80000			
	66	1590	2.6	22.13	46000	75600			
	81	1290	2.7	18.03	46000	71800			
	41	2590	0.9	36.14	6300	11400	**K6.3A DA160M4**	145	154
	53	2000	1.2	27.85	7620	12900	**K6.3B DA160M4**		154
	70	1500	1.6	20.91	8460	13600	**K6.3C DA160M4**		160
	83	1260	2.0	17.56	8740	13700			
	106	995	2.6	13.85	8900	13500			
	130	810	2.7	11.28	8890	13200			
	82	1270	1.0	17.78	3420	5380	**K5.3A DA160M4**	144	118
	106	995	1.2	13.87	4230	6320	**K5.3B DA160M4**		118
	124	845	1.4	11.78	4590	6700	**K5.3C DA160M4**		122
	172	610	2.0	8.53	5000	7060			
	212	495	2.5	6.90	5110	7080			
	261	405	3.0	5.61	5130	6990			
	289	365	3.3	5.07	5110	6920			
	355	295	3.8	4.12	5030	6720			
15.0									
	44	3270	1.1	33.42	46000	80300	**K7.3A DA160L4**	146	226
	52	2740	1.5	28.05	46000	77400	**K7.3B DA160L4**		226
	66	2160	1.9	22.13	46000	73500	**K7.3C DA160L4**		243
	81	1760	2.0	18.03	45300	70100			
	107	1340	3.0	13.70	43000	65600			
	70	2040	1.1	20.91	5810	9550	**K6.3A DA160L4**	145	173
	83	1720	1.5	17.56	6510	10300	**K6.3B DA160L4**		173
	106	1350	1.9	13.85	7140	10900	**K6.3C DA160L4**		179
	130	1100	2.0	11.28	7460	11100			
	171	840	3.0	8.57	7620	11100			
	106	1360	0.9	13.87	2060	3300	**K5.3A DA160L4**	144	138
	124	1150	1.1	11.78	2740	4130	**K5.3B DA160L4**		138
	172	835	1.5	8.53	3670	5200	**K5.3C DA160L4**		141
	212	675	1.8	6.90	4030	5590			
	261	550	2.2	5.61	4250	5790			
	289	495	2.4	5.07	4320	5840			
	355	405	2.8	4.12	4390	5850			

Motorreductores de engranajes cónicos K



P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
18.5									
	44	4030	0.9	33.42	46000	77600	**K7.3A DA180M4**	146	252
	52	3380	1.2	28.05	45700	75200	**K7.3B DA180M4**		252
	66	2670	1.6	22.13	44700	71700	**K7.3C DA180M4**		269
	81	2170	1.6	18.03	43500	68600			
	107	1650	2.4	13.70	41600	64400			
	70	2520	0.9	20.91	3480	6220	**K6.3A DA180M4**	145	199
	83	2120	1.2	17.56	4560	7520	**K6.3B DA180M4**		199
	106	1670	1.5	13.85	5610	8710	**K6.3C DA180M4**		204
	130	1360	1.6	11.28	6210	9330			
	171	1030	2.4	8.57	6670	9720			
	124	1420	0.9	11.78	1130	1980	**K5.3A DA180M4**	144	163
	172	1030	1.2	8.53	2490	3630	**K5.3B DA180M4**		163
	212	830	1.5	6.90	3080	4320	**K5.3C DA180M4**		166
	261	675	1.8	5.61	3480	4760			
	289	610	2.0	5.07	3620	4910			
	355	495	2.3	4.12	3820	5100			
22.0									
	67	3150	1.3	22.13	42400	69800	**K7.3A DA180L4**	146	284
	82	2570	1.4	18.03	41600	67100	**K7.3B DA180L4**		284
	108	1950	2.1	13.70	40200	63200	**K7.3C DA180L4**		300
	134	1570	2.7	11.01	38800	60200			
	166	1270	3.0	8.91	37300	57200			
	106	1970	1.3	13.85	4100	6610	**K6.3A DA180L4**	145	231
	131	1610	1.4	11.28	4980	7620	**K6.3B DA180L4**		231
	172	1220	2.1	8.57	5740	8410	**K6.3C DA180L4**		236
	214	980	2.6	6.89	6080	8710			
	265	795	3.0	5.57	6250	8790			
	294	715	3.2	5.02	6290	8770			
	363	580	3.7	4.06	6290	8640			
30.0									
	67	4300	1.0	22.13	37400	65800	**K7.3A DA200L4**	146	321
	82	3500	1.0	18.03	37500	63800	**K7.3B DA200L4**		321
	108	2660	1.5	13.70	37100	60700	**K7.3C DA200L4**		337
	134	2140	2.0	11.01	36300	58100			
	166	1730	2.2	8.91	35200	55500			
	184	1560	2.3	8.02	34700	54200			
	227	1260	2.7	6.49	33400	51600			
	106	2690	0.9	13.85	610	1960	**K6.3A DA200L4**	145	268
	131	2190	1.0	11.28	2140	3790	**K6.3B DA200L4**		268
	172	1660	1.5	8.57	3580	5500	**K6.3C DA200L4**		273
	214	1340	1.9	6.89	4350	6370			
	265	1080	2.2	5.57	4850	6910			
	294	975	2.3	5.02	5030	7080			
	363	790	2.7	4.06	5270	7280			

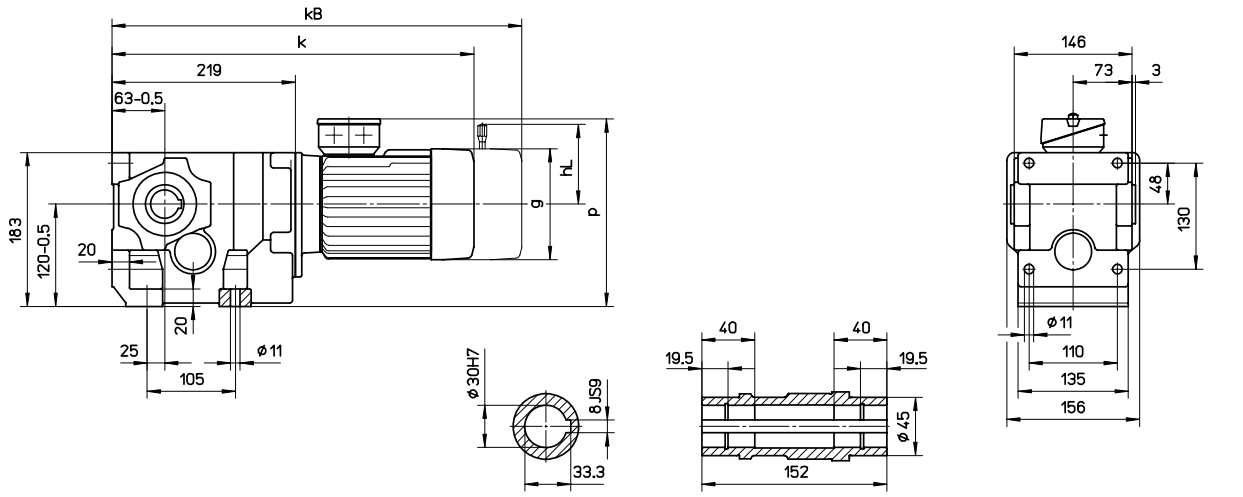
Motorreductores de engranajes cónicos K para muy baja velocidad

M [Nm]	n2 Peso [1/min]	i	Tipo	Dimensiones Página	[kg]
345	**0.38**	3735.5	**K3.3/G1.2A DL63K4**	142/147	28
	0.42	3395.1	**K3.3/G1.2B DL63K4**		28
	0.43	3286.6	**K3.3/G1.2C DL63K4**		30
	0.48	2909.8			
	0.53	2644.6			
	0.55	2560.1			
	0.61	2326.8			
	0.68	2058.6			
	0.75	1871.0			
	0.82	1715.5			
	0.90	1559.2			
	1.1	1319.6			
	1.2	1199.4			
	1.5	923.73			
	1.7	839.56			
	1.9	757.84			
	2.0	688.78			
	2.4	599.48			
650	**0.31**	4522.9	**K4.3/G1.2A DL63K4**	143/147	39
	0.34	4110.8	**K4.3/G1.2B DL63K4**		39
	0.35	3979.3	**K4.3/G1.2C DL63K4**		41
	0.40	3548.1			
	0.44	3224.8			
	0.45	3121.7			
	0.50	2837.3			
	0.56	2510.2			
	0.62	2281.5			
	0.67	2091.9			
	0.74	1901.3			
	0.88	1609.1			
	0.96	1462.5			
	1.3	1126.4			
1200	**0.045**	31544	**K5.4/G1.2A DL63K4**	144/147	63
	0.049	28670	**K5.4/G1.2B DL63K4**		63
	0.051	27753	**K5.4/G1.2C DL63K4**		67
	0.058	24488			
	0.063	22257			
	0.065	21545			
	0.072	19582			
	0.081	17325			
	0.090	15746			
	0.098	14438			
	0.11	13122			
	0.13	11106			
	0.14	10094			
	0.18	7774.0			
	0.20	7065.6			
	0.22	6377.9			
	0.24	5796.7			
	0.28	5045.2			
	0.31	4585.5			
	0.34	4164.7			
	0.37	3785.2			
	0.44	3170.9			
	0.49	2881.9			
	0.57	2483.7			
	0.62	2257.3			

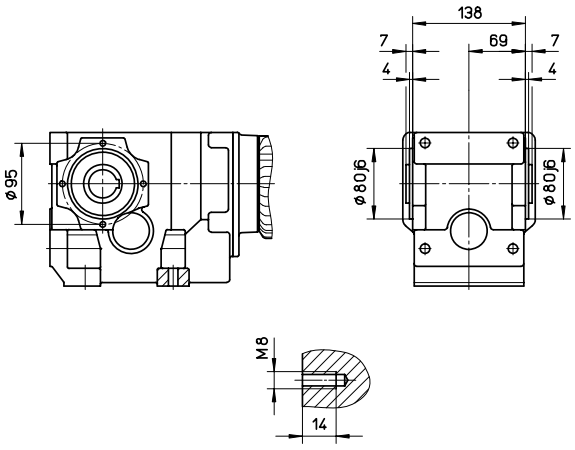
M [Nm]	n2 Peso [1/min]	i	Tipo	Dimensiones Página	[kg]
2500	**0.039**	36300	**K6.4/G1.2A DL63K4**	145/147	102
	0.043	32992	**K6.4/G1.2B DL63K4**		102
	0.044	31938	**K6.4/G1.2C DL63K4**		108
	0.050	28276			
	0.055	25699			
	0.057	24878			
	0.062	22611			
	0.070	20005			
	0.078	18182			
	0.085	16671			
	0.093	15152			
	0.11	12824			
	0.12	11655			
	0.16	8976.5			
	0.17	8158.5			
	0.19	7364.4			
	0.21	6693.3			
	0.24	5825.6			
	0.27	5294.7			
	0.29	4808.8			
	0.32	4370.6			
4200	**0.024**	58002	**K7.4/G1.2A DL63K4**	146/147	158
	0.027	52717	**K7.4/G1.2B DL63K4**		158
	0.028	51031	**K7.4/G1.2C DL63K4**		175
	0.031	45181			
	0.034	41063			
	0.035	39751			
	0.039	36128			
	0.044	31964			
	0.049	29052			
	0.053	26637			
	0.058	24210			
	0.069	20490			
	0.076	18623			
	0.098	14343			
	0.11	13036			
	0.12	11767			
	0.13	10695			
	0.15	9308.3			
	0.17	8460.1			
	0.18	7683.8			
	0.20	6983.6			

Motorreductores de engranajes cónicos K

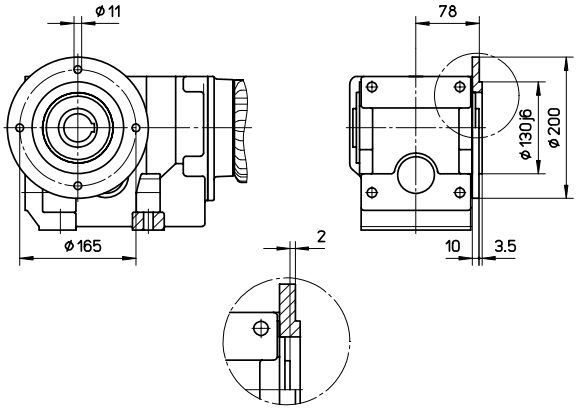
K3.3A, K3.4A Versión con pie



K3.3B, K3.4B Versión con brida B14



K3.3C, K3.4C Versión con brida B5

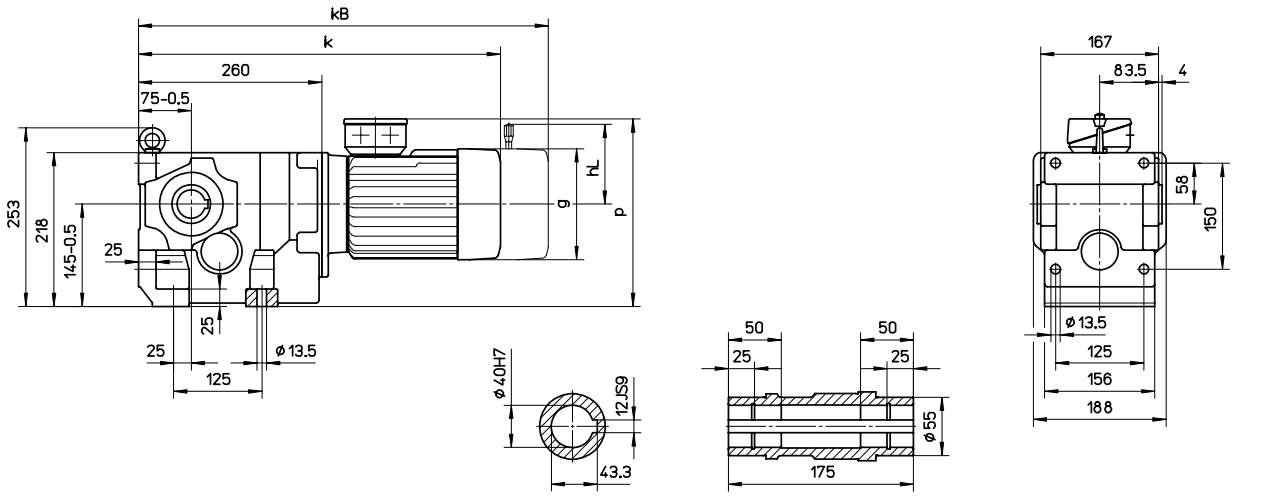


	k	kB	g	p	hL
K3.4_ DL63/71	432	484	126	233	106
K3.3_ DL63/71	405	457	126	233	106
K3.4_ DA80	480	551	158	255	128
K3.3_ DA80	453	524	158	255	128
K3.3_ DA90S	453	524	158	255	128
K3.3_ DA90L	500	565	176	269	168
K3.3_ DA100L	500	565	176	269	168
K3.3_ DA100LX	538	612	195	276	176
K3.3_ DA112	538	612	195	276	176

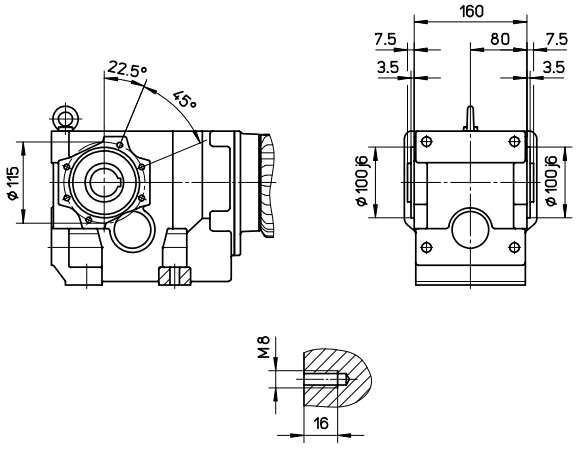
Las cotas kB y hL conciernen a los motorreductores con freno.

Motorreductores de engranajes cónicos K

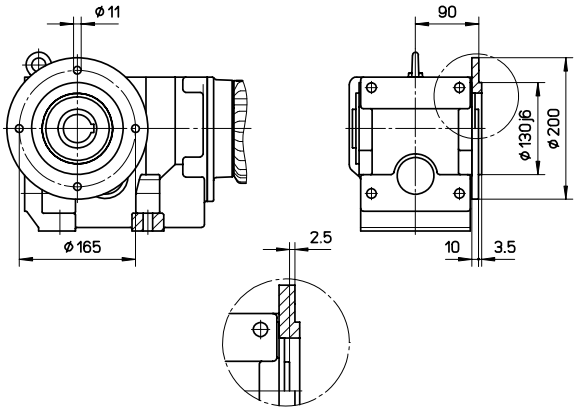
K4.3A, K4.4A Versión con pie



K4.3B, K4.4B Versión con brida B14



K4.3C, K4.4C Versión con brida B5

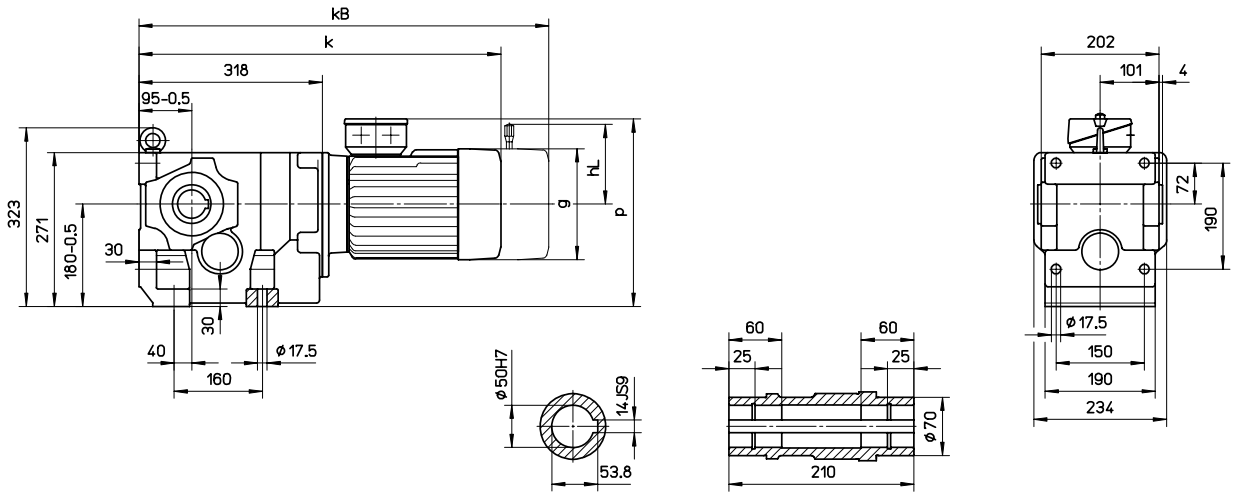


	k	kB	g	p	hL
K4.4_DL63/71	467	519	126	258	106
K4.3_DA80	488	559	158	280	128
K4.4_DA80	515	586	158	280	128
K4.3_DA90S	488	559	158	280	128
K4.3_DA90L	535	600	176	294	168
K4.4_DA90S	515	586	158	280	128
K4.4_DA90L	562	627	176	294	168
K4.3_DA100L	535	600	176	294	168
K4.3_DA100LX	573	647	195	301	176
K4.3_DA112	573	647	195	301	176
K4.3_DA132	677	776	245	333	225

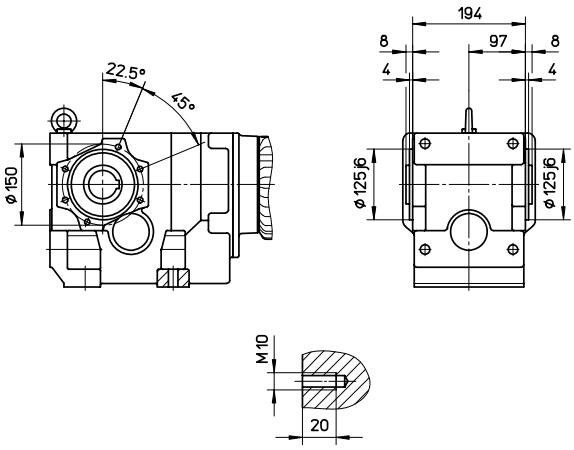
Las cotas kB y hL conciernen a los motorreductores con freno.

Motorreductores de engranajes cónicos K

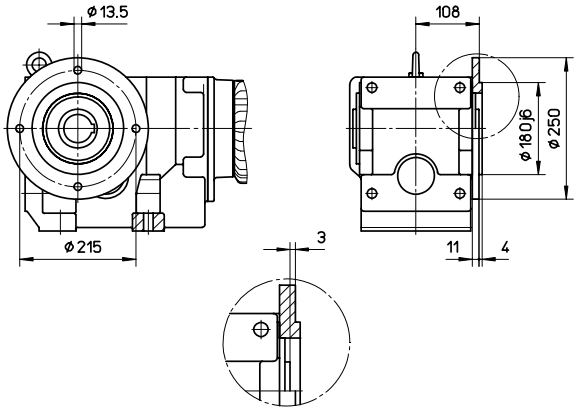
K5.3A, K5.4A **Versión con pie**



K5.3B, K5.4B **Versión con brida B14**



K5.3C, K5.4C **Versión con brida B5**

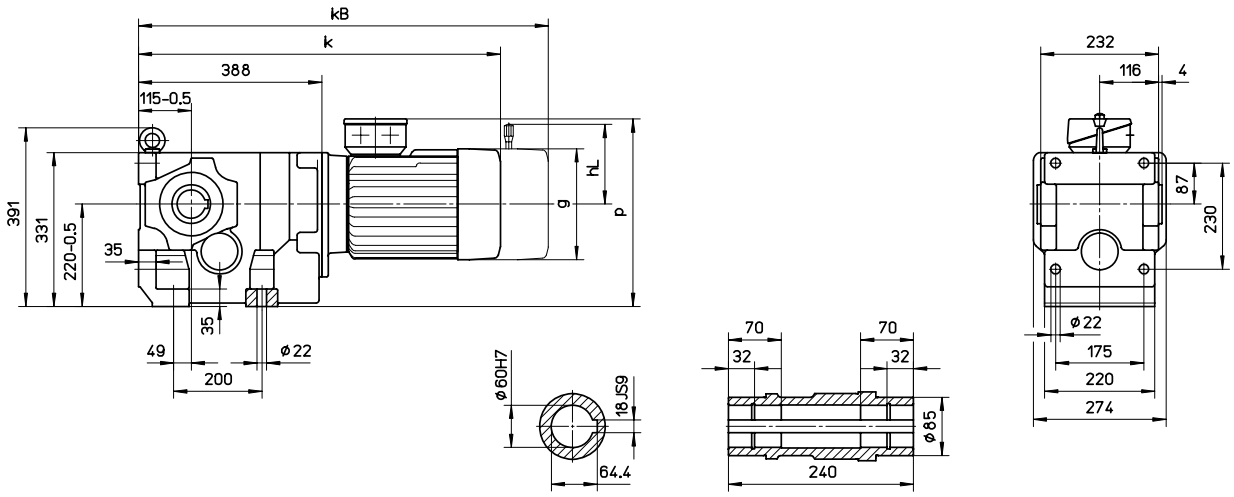


	k	kB	g	p	hL
K5.4_ DL63/71	523	575	126	293	106
K5.4_ DA80	572	643	158	315	128
K5.3_ DA90L	585	650	176	329	168
K5.4_ DA90S	572	643	158	315	128
K5.4_ DA90L	619	683	176	329	168
K5.3_ DA100L	585	650	176	329	168
K5.4_ DA100L	619	683	176	329	168
K5.3_ DA100LX	623	697	195	336	176
K5.3_ DA112	623	697	195	336	176
K5.3_ DA132	727	826	245	368	225
K5.3_ DA160	851	971	311	430	256
K5.3_ DA180M	851	971	311	430	256

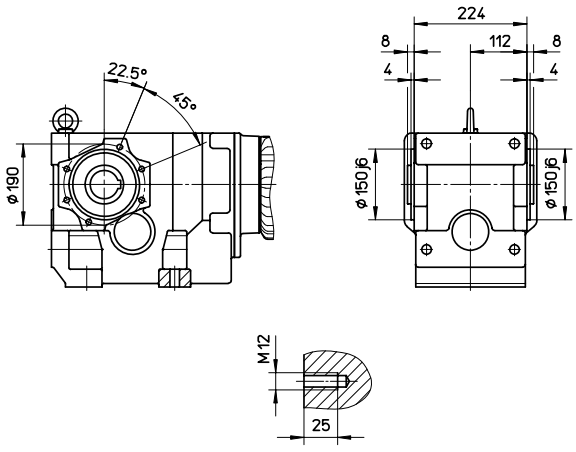
Las cotas kB y hL conciernen a los motorreductores con freno.

Motorreductores de engranajes cónicos K

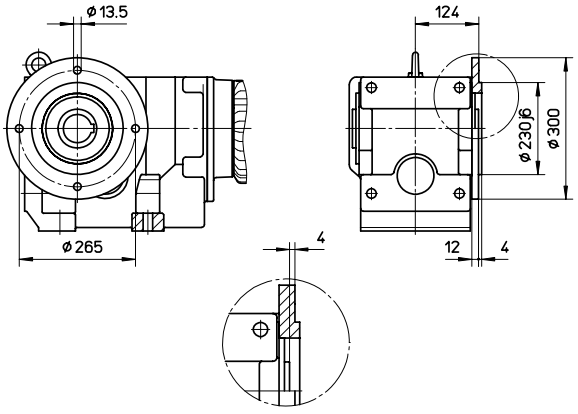
K6.3A, K6.4A Versión con pie



K6.3B, K6.4B Versión con brida B14



K6.3C, K6.4C Versión con brida B5

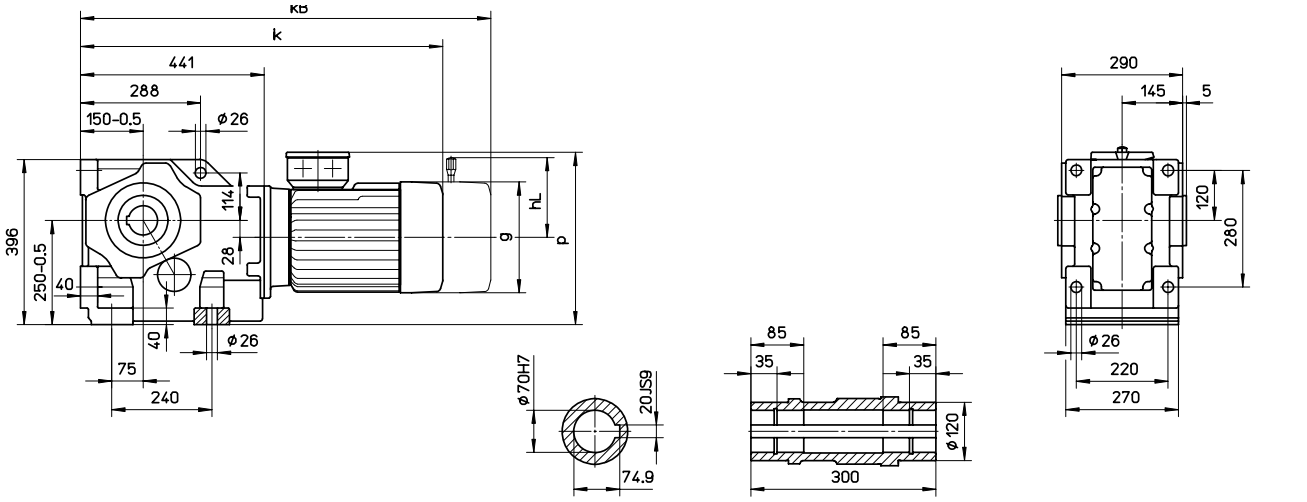


	k	kB	g	p	hL
K6.4_ DA80	639	710	158	355	128
K6.4_ DA90S	639	710	158	355	128
K6.4_ DA90L	686	751	176	369	168
K6.4_ DA100L	686	751	176	369	168
K6.3_ DA100LX	685	759	195	376	176
K6.4_ DA100LX	724	798	195	376	176
K6.3_ DA112	685	759	195	376	176
K6.4_ DA112	724	798	195	376	176
K6.3_ DA132	789	888	245	408	225
K6.3_ DA160	913	1033	311	470	256
K6.3_ DA180M	913	1033	311	470	256
K6.3_ DA180L	954	1093	356	511	335
K6.3_ DA200L	954	1093	356	511	335

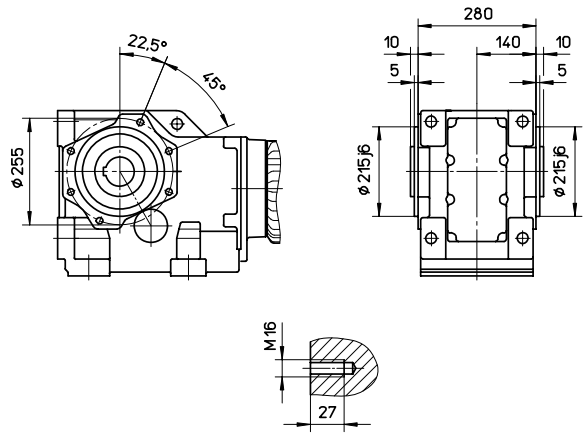
Las cotas kB y hL conciernen a los motorreductores con freno.

Motorreductores de engranajes cónicos K

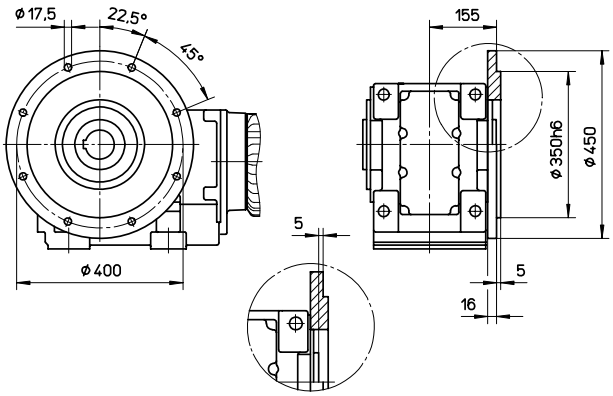
K7.3A, K7.4A Versión con pie



K7.3B, K7.4B Versión con brida B14



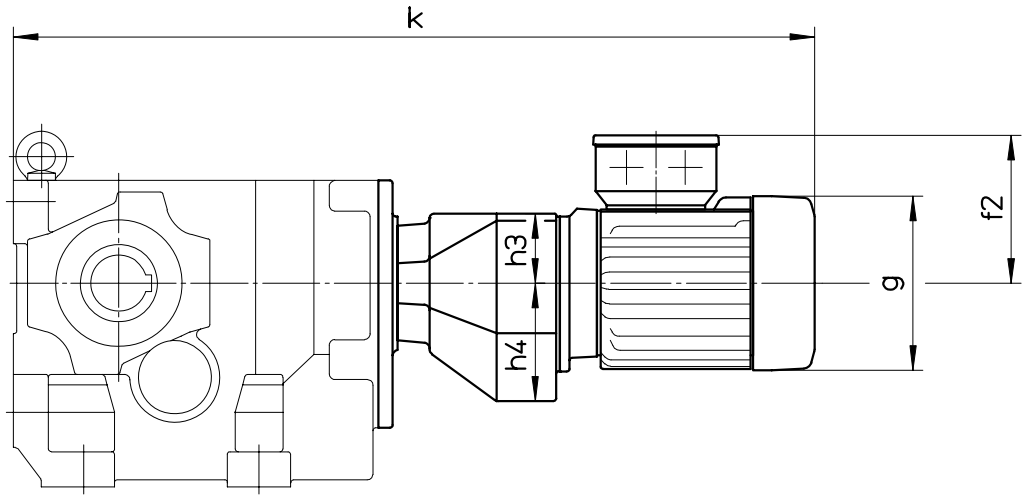
K7.3C, K7.4C Versión con brida B5



	k	kB	g	p	hL
K7.4_ DA80	692	763	158	285	128
K7.4_ DA90S	692	763	158	285	128
K7.4_ DA90L	739	804	176	371	168
K7.4_ DA100L	739	804	176	371	168
K7.3_ DA100LX	738	812	195	376	176
K7.4_ DA100LX	777	851	195	376	176
K7.3_ DA112	738	812	195	376	176
K7.4_ DA112	777	851	195	376	176
K7.3_ DA132	842	941	245	408	225
K7.3_ DA160	966	1086	311	470	256
K7.3_ DA180M	966	1086	311	470	256
K7.3_ DA180L	1007	1146	356	511	335
K7.3_ DA200L	1007	1146	356	511	335

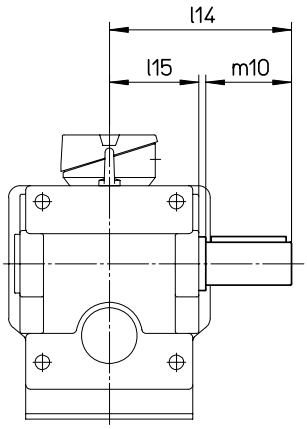
Las cotas kB y hL conciernen a los motorreductores con freno.

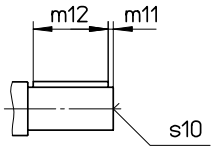
Motorreductores de engranajes cónicos K para muy baja velocidad

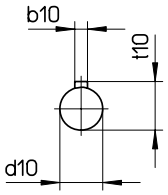


	k	g	f2	h3	h4
K3.3/G1.2A DL63/71	549	126	113	50	84
K4.3/G1.2A DL63/71	584	126	113	50	84
K5.4/G1.2A DL63/71	667	126	113	50	84
K6.4/G1.2A DL63/71	735	126	113	50	84
K6.4/G1.2A DA80	784	158	135		
K7.4/G1.2A DL63/71	788	126	113	50	84
K7.4/G1.2A DA80	837	158	135		

Reductores de engranajes cónicos K
Ejecución con eje sólido

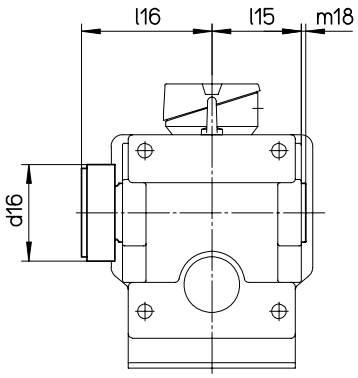


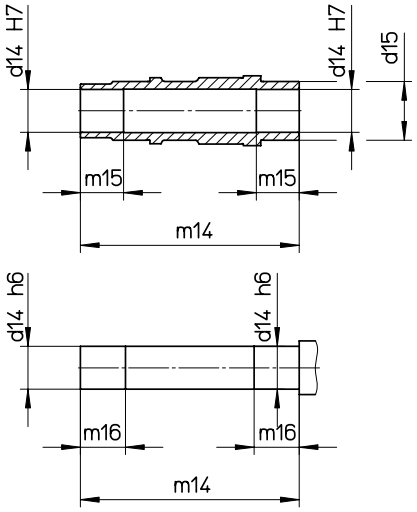




Reductor	d10	m10	m11	m12	b10	t10	s10	l14	l15
K3	30	60	5	50	8	33	M10	139	73
K4	40	80	5	70	12	43	M16	170	83.5
K5	50	100	10	80	14	53.5	M16	208	101
K6	60	120	10	100	18	64	M20	244	116
K7	75	140	7.5	125	20	79.5	M20	295	145

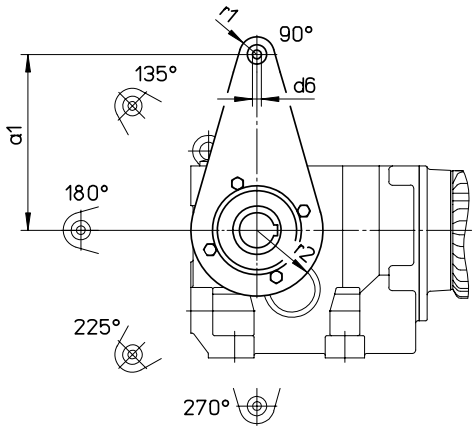
Reductores de engranajes cónicos K
Ejecución con eje hueco y disco de apriete

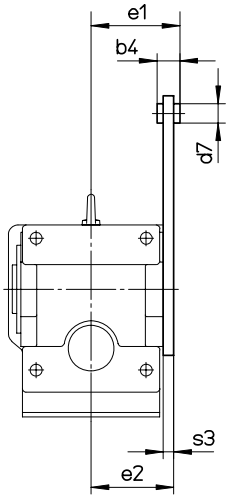




Reductor	d14	d15	d16	m14	m15	m16	m18	l15	l16
K3	30	45	72	176	30	32	3	73	106
K4	40	55	90	204	40	42	4	83.5	122
K5	50	70	110	242	50	52	4	101	143
K6	60	85	138	272	60	62	4	116	159
K7	70	120	170	350	70	72	5	145	210

Reductores de engranajes cónicos K
Brazo de par T1





Reductor	a1	b4	d6	d7	e1	e2	s3	r1	r2
K3	160	22	11	32	84	77	8	20	65
K4	200	22	11	32	95	88	8	20	75
K5	250	32	17	40	117	105	8	28	97
K6	300	66	16	32	152.5	127	15	28	117
K7	350	96	24	42	198	160	20	36	150

Reductores de engranajes cónicos K

i	M [Nm] cG=1	n2 [1/min] | Pmax [kW] n1=2800	n1=1400	n1=930	n1=700	Adaptador motor -M							
K3.3						**IEC**	**IEC**	**IEC**	**IEC**	**IEC**			
67.56	235	41|1.0	21|0.51	14|0.34	10|0.25	71	80				S4C	S4D	
56.30	270	50|1.4	25|0.71	17|0.47	12|0.35	71	80	90			S4C	S4D	S4E
43.85	335	64|2.2	32|1.1	21|0.75	16|0.56	71	80	90	100	112	S4C	S4D	S4E
35.56	345	79|2.8	39|1.4	26|0.94	20|0.71	71	80	90	100	112	S4C	S4D	S4E
26.13	345	107|3.9	54|1.9	36|1.3	27|0.97	71	80	90	100	112	S4C	S4D	S4E
21.08	345	133|4.8	66|2.4	44|1.6	33|1.2	71	80	90			S4C	S4D	S4E
17.78	345	158|5.7	79|2.8	52|1.9	39|1.4	71	80	90	100	112	S4C	S4D	S4E
13.33	345	210|7.6	105|3.8	70|2.5	53|1.9	71	80	90	100	112	S4C	S4D	S4E
11.26	345	249|8.0	124|4.5	83|3.0	62|2.2	71	80	90	100	112	S4C	S4D	S4E
8.82	345	317|8.0	159|5.7	105|3.8	79|2.9			90	100	112			S4E
6.93	345	404|8.0	202|7.3	134|4.8	101|3.6			90	100	112			S4E
5.18	345	540|8.0	270|8.0	180|6.5	135|4.9			90	100	112			S4E
3.87	310	724|8.0	362|8.0	241|7.9	181|5.9			90	100	112			S4E
K3.4						**IEC**	**IEC**	**IEC**	**IEC**	**IEC**			
217.28	345	13|0.47	6.4|0.23	4.3|0.15	3.2|0.12	63	71	80	S4B	S4C	S4D		
169.88	345	16|0.60	8.2|0.30	5.5|0.20	4.1|0.15	63	71	80	S4B	S4C	S4D		
138.27	345	20|0.73	10|0.37	6.7|0.24	5.1|0.18	63	71	80	S4B	S4C	S4D		
102.72	345	27|0.98	14|0.49	9.1|0.33	6.8|0.25	63	71	80	S4B	S4C	S4D		
79.01	345	35|1.3	18|0.64	12|0.43	8.9|0.32	63	71	80	S4B	S4C	S4D		
67.16	345	42|1.5	21|0.75	14|0.50	10|0.38	63	71	80	S4B	S4C	S4D		
K4.3						**IEC**	**IEC**	**IEC**	**IEC**	**IEC**			
68.16	430	41|1.8	21|0.92	14|0.61	10|0.46	80	90				S4D	S4E	
53.47	530	52|2.9	26|1.4	17|0.96	13|0.72	80	90	100	112	132	S4D	S4E	S4F
43.48	635	64|4.3	32|2.1	21|1.4	16|1.1	80	90	100	112	132	S4D	S4E	S4F
32.26	715	87|6.5	43|3.3	29|2.2	22|1.6	80	90	100	112	132	S4D	S4E	S4F
27.50	715	102|7.6	51|3.8	34|2.5	25|1.9		90	100	112	132		S4E	S4F
22.26	540	126|7.1	63|3.6	42|2.4	31|1.8	80	90	100	112	132	S4D	S4E	S4F
16.75	715	167|13	84|6.3	56|4.2	42|3.1	80	90	100	112	132	S4D	S4E	S4F
13.00	715	215|16	108|8.1	72|5.4	54|4.0			100	112	132			S4F
11.39	690	246|18	123|8.9	82|5.9	61|4.4		90	100	112	132		S4E	S4F
8.37	715	334|18	167|13	111|8.3	84|6.3			100	112	132			S4F
7.23	595	387|18	194|12	129|8.0	97|6.0					132			S4F
6.82	715	410|18	205|15	136|10	103|7.7			100	112	132			S4F
5.44	535	515|18	257|14	171|9.6	129|7.2					132			S4F
5.14	715	545|18	272|18	181|14	136|10			100	112	132			S4F
4.10	460	683|18	342|17	227|11	171|8.3					132			S4F
3.87	715	724|18	362|18	240|18	181|14			100	112	132			S4F
K4.4						**IEC**	**IEC**	**IEC**	**IEC**				
655.04	580	4.3|0.26	2.1|0.13	1.4|0.09	1.1|0.06	63	71	80		S4B	S4C	S4D	
576.32	580	4.9|0.29	2.4|0.15	1.6|0.10	1.2|0.07	63	71	80		S4B	S4C	S4D	
463.43	580	6.0|0.37	3.0|0.18	2.0|0.12	1.5|0.09	63	71	80		S4B	S4C	S4D	
386.19	580	7.3|0.44	3.6|0.22	2.4|0.15	1.8|0.11	63	71	80	90	S4B	S4C	S4D	S4E
297.07	580	9.4|0.57	4.7|0.29	3.1|0.19	2.4|0.14	63	71	80	90	S4B	S4C	S4D	S4E
207.95	580	13|0.81	6.7|0.41	4.5|0.27	3.4|0.20	63	71	80		S4B	S4C	S4D	
170.60	580	16|0.99	8.2|0.50	5.5|0.33	4.1|0.25	63	71	80		S4B	S4C	S4D	
134.96	580	21|1.3	10|0.63	6.9|0.42	5.2|0.31	63	71	80	90	S4B	S4C	S4D	S4E
111.40	580	25|1.5	13|0.76	8.3|0.51	6.3|0.38	63	71	80	90	S4B	S4C	S4D	S4E
84.82	580	33|2.0	17|1.00	11|0.66	8.3|0.50	63	71	80	90	S4B	S4C	S4D	S4E
66.44	580	42|2.6	21|1.3	14|0.85	11|0.64	63	71	80	90	S4B	S4C	S4D	S4E
50.66	580	55|3.0	28|1.7	18|1.1	14|0.84	63	71	80		S4B	S4C	S4D	
36.46	580	77|3.0	38|2.3	26|1.5	19|1.2	63	71	80		S4B	S4C	S4D	

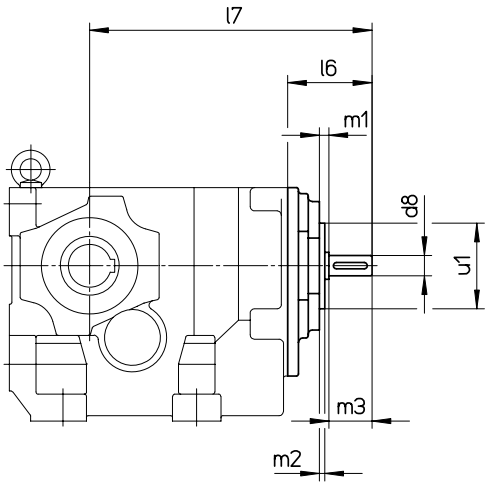
Reductores de engranajes cónicos K

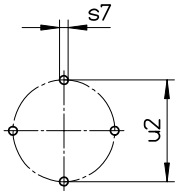
i	M [Nm]	n2 [1/min] | Pmax [kW]				Adaptador motor -M							
	cG=1	n1=2800	n1=1400	n1=930	n1=700								
K5.3						IEC	IEC	IEC	IEC	IEC			
68.74	880	41|3.8	20|1.9	14|1.2	10|0.94	90	100	112			S4E		
56.30	990	50|5.2	25|2.6	17|1.7	12|1.3	90	100	112			S4E		
42.13	1220	66|8.5	33|4.2	22|2.8	17|2.1	90	100	112	132	160	S4E	S4F	
35.73	1220	78|10	39|5.0	26|3.3	20|2.5	90	100	112	132	160	S4E	S4F	
28.89	1220	97|12	48|6.2	32|4.1	24|3.1	90	100	112	132	160	S4E	S4F	
22.44	1220	125|16	62|8.0	41|5.3	31|4.0	90	100	112	132	160	S4E	S4F	
17.78	1220	157|20	79|10	52|6.7	39|5.0	90	100	112	132	160	S4E	S4F	
13.87	1220	202|26	101|13	67|8.6	50|6.4	90	100	112	132	160	S4E	S4F	
11.78	1220	238|30	119|15	79|10	59|7.6	90	100	112	132	160	S4E	S4F	
8.53	1220	328|37	164|21	109|14	82|10	90	100	112	132	160	S4E	S4F	
6.90	1220	406|37	203|26	135|17	101|13				132	160		S4F	
5.61	1220	499|37	249|32	166|21	125|16				132	160		S4F	
5.07	1210	553|37	276|35	184|23	138|17				132	160		S4F	
4.12	1130	679|37	340|37	226|27	170|20				132	160		S4F	
K5.4						IEC	IEC	IEC	IEC	IEC			
713.09	1200	3.9|0.50	2.0|0.25	1.3|0.16	0.98|0.12	71	80				S4C	S4D	
575.47	1220	4.9|0.62	2.4|0.31	1.6|0.21	1.2|0.16	71	80				S4C	S4D	
475.39	1220	5.9|0.75	2.9|0.38	2.0|0.25	1.5|0.19	71	80	90			S4C	S4D	S4E
369.05	1220	7.6|0.97	3.8|0.48	2.5|0.32	1.9|0.24	71	80	90	100	112	S4C	S4D	S4E
300.25	1220	9.3|1.2	4.7|0.60	3.1|0.40	2.3|0.30	71	80	90	100	112	S4C	S4D	S4E
214.46	1220	13|1.7	6.5|0.83	4.3|0.55	3.3|0.42	71	80				S4C	S4D	
174.25	1220	16|2.1	8.0|1.0	5.3|0.68	4.0|0.51	71	80	90			S4C	S4D	S4E
145.43	1220	19|2.5	9.6|1.2	6.4|0.82	4.8|0.61	71	80	90	100	112	S4C	S4D	S4E
110.65	1220	25|3.2	13|1.6	8.4|1.1	6.3|0.81	71	80	90			S4C	S4D	S4E
87.57	1220	32|4.1	16|2.0	11|1.4	8.0|1.0	71	80	90	100	112	S4C	S4D	S4E
80.42	1220	35|4.4	17|2.2	12|1.5	8.7|1.1			90					S4E
71.31	1220	39|5.0	20|2.5	13|1.7	9.8|1.3	71	80	90	100	112	S4C	S4D	S4E
59.71	1220	47|6.0	23|3.0	16|2.0	12|1.5			90					S4E
53.08	1220	53|6.7	26|3.4	18|2.2	13|1.7			90					S4E
39.41	1220	71|8.0	36|4.5	24|3.0	18|2.3			90					S4E
K6.3						IEC	IEC	IEC	IEC	IEC			
69.34	1680	40|7.1	20|3.6	13|2.4	10|1.8	100	112						
51.83	1870	54|11	27|5.3	18|3.5	14|2.6	100	112	132	160		S4F		
44.42	2310	63|15	32|7.6	21|5.1	16|3.8	100	112	132	160		S4F		
36.14	2400	77|19	39|9.7	26|6.5	19|4.9	100	112	132	160		S4F		
27.85	2470	101|26	50|13	33|8.6	25|6.5	100	112	132	160		S4F		
20.91	2340	134|33	67|16	44|11	33|8.2	100	112	132	160		S4F		
17.56	2500	159|42	80|21	53|14	40|10	100	112	132	160		S4F		
13.85	2540	202|54	101|27	67|18	51|13			132	160	180	S4F		
11.28	2200	248|57	124|29	82|19	62|14	100	112	132	160	180	S4F		
8.57	2520	327|60	163|43	109|29	82|22			132	160	180	S4F		
6.89	2540	406|60	203|54	135|36	102|27					180			
5.57	2400	502|60	251|60	167|42	126|32					180			
5.02	2260	558|60	279|60	185|44	140|33					180			
4.06	2120	690|60	345|60	229|51	172|38					180			

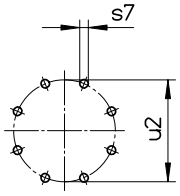
Reductores de engranajes cónicos K

i	M [Nm]	n2 [1/min] | Pmax [kW]				Adaptador motor -M							
	cG=1	n1=2800	n1=1400	n1=930	n1=700								
K6.4						IEC	IEC	IEC	IEC	IEC			
656.48	2270	4.3|1.0	2.1|0.51	1.4|0.34	1.1|0.25	80					S4D		
547.07	2540	5.1|1.4	2.6|0.68	1.7|0.45	1.3|0.34	80	90				S4D	S4E	
426.14	2540	6.6|1.7	3.3|0.87	2.2|0.58	1.6|0.44	80	90	100	112	132	S4D	S4E	S4F
345.52	2540	8.1|2.2	4.1|1.1	2.7|0.71	2.0|0.54	80	90	100	112	132	S4D	S4E	S4F
253.95	2540	11|2.9	5.5|1.5	3.7|0.97	2.8|0.73	80	90	100	112	132	S4D	S4E	S4F
204.84	2540	14|3.6	6.8|1.8	4.5|1.2	3.4|0.91	80	90				S4D	S4E	
172.76	2540	16|4.3	8.1|2.2	5.4|1.4	4.1|1.1	80	90	100	112	132	S4D	S4E	S4F
129.57	2540	22|5.7	11|2.9	7.2|1.9	5.4|1.4	80	90	100	112	132	S4D	S4E	S4F
109.41	2540	26|6.8	13|3.4	8.5|2.3	6.4|1.7	80	90	100	112	132	S4D	S4E	S4F
85.71	2540	33|8.7	16|4.3	11|2.9	8.2|2.2		90	100	112	132		S4E	S4F
67.38	2540	42|11	21|5.5	14|3.7	10|2.8		90	100	112	132		S4E	S4F
50.35	2540	56|15	28|7.4	18|4.9	14|3.7		90	100	112	132		S4E	S4F
K7.3						IEC	IEC	IEC	IEC	IEC			
110.79	2690	25|7.1	13|3.6	8.4|2.4	6.3|1.8	100	112						
82.81	2990	34|11	17|5.3	11|3.5	8.5|2.6	100	112	132	160		S4F		
70.98	3690	39|15	20|7.6	13|5.1	9.9|3.8	100	112	132	160		S4F		
57.74	3820	48|19	24|9.7	16|6.5	12|4.9	100	112	132	160		S4F		
44.50	3940	63|26	31|13	21|8.6	16|6.5	100	112	132	160		S4F		
33.42	3740	84|33	42|16	28|11	21|8.2	100	112	132	160		S4F		
28.06	3990	100|42	50|21	33|14	25|10	100	112	132	160		S4F		
22.13	4180	127|55	63|28	42|18	32|14			132	160	180	S4F		
18.03	3520	155|57	78|29	52|19	39|14	100	112	132	160	180	S4F		
13.70	4020	204|60	102|43	68|29	51|22			132	160	180	S4F		
11.01	4170	254|60	127|56	84|37	64|28					180			
8.91	3840	314|60	157|60	104|42	79|32					180			
8.02	3620	349|60	175|60	116|44	87|33					180			
6.49	3400	432|60	216|60	143|51	108|38					180			
K7.4						IEC	IEC	IEC	IEC	IEC			
1049.0	3630	2.7|1.0	1.3|0.51	0.89|0.34	0.67|0.25	80					S4D		
874.13	4180	3.2|1.4	1.6|0.70	1.1|0.47	0.80|0.35	80	90				S4D	S4E	
680.90	4180	4.1|1.8	2.1|0.90	1.4|0.60	1.0|0.45	80	90	100	112	132	S4D	S4E	S4F
552.08	4180	5.1|2.2	2.5|1.1	1.7|0.74	1.3|0.55	80	90	100	112	132	S4D	S4E	S4F
405.78	4180	6.9|3.0	3.5|1.5	2.3|1.0	1.7|0.75	80	90	100	112	132	S4D	S4E	S4F
327.31	4180	8.6|3.7	4.3|1.9	2.8|1.2	2.1|0.94	80	90				S4D	S4E	
276.04	4180	10|4.4	5.1|2.2	3.4|1.5	2.5|1.1	80	90	100	112	132	S4D	S4E	S4F
207.03	4180	14|5.9	6.8|3.0	4.5|2.0	3.4|1.5	80	90	100	112	132	S4D	S4E	S4F
174.83	4180	16|7.0	8.0|3.5	5.3|2.3	4.0|1.8	80	90	100	112	132	S4D	S4E	S4F
136.96	4180	20|9.0	10|4.5	6.8|3.0	5.1|2.2		90	100	112	132		S4E	S4F
107.66	4180	26|11	13|5.7	8.6|3.8	6.5|2.8		90	100	112	132		S4E	S4F
80.45	4170	35|15	17|7.6	12|5.1	8.7|3.8		90	100	112	132		S4E	S4F

Reductores de engranajes cónicos K



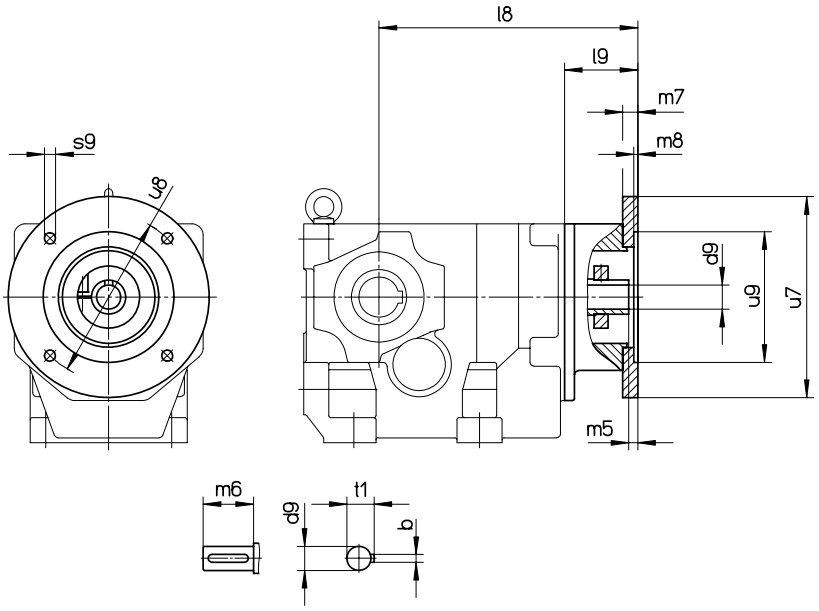




K5.3-W
K6.3-W
K7.3-W

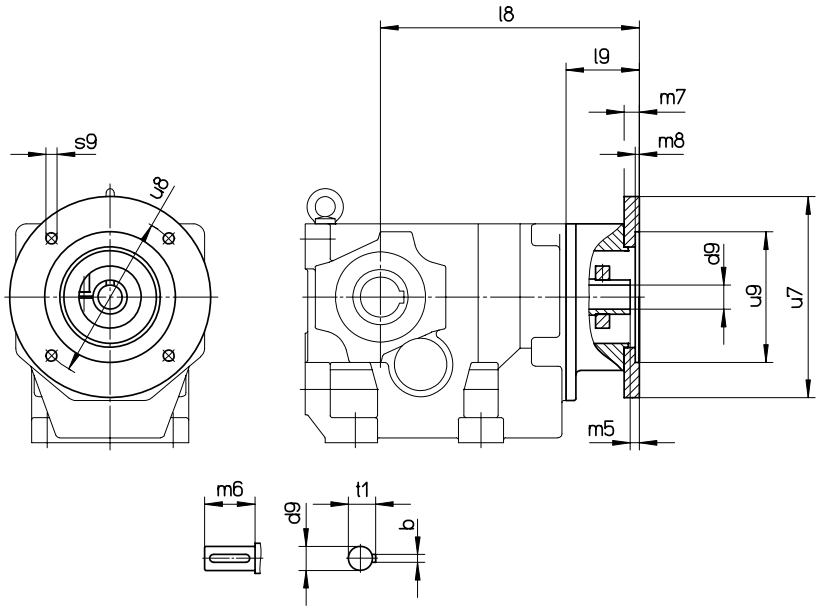
Reductor	d8	m3	m1	m2	u1	u2	s7	l6	l7
K3.3-W	19	40	9	5	80	95	M8	84.5	239.5
K3.4-W	14	40	8	5	54	67	M6	94.5	249.5
K4.3-W	24	50	9	5	80	95	M8	88.5	273
K4.4-W	14	40	8	5	54	67	M6	89.5	274
K5.3-W	28	60	11	6	125	150	M10	119.5	341.5
K5.4-W	19	40	9	5	80	95	M8	104	326
K6.3-W	38	80	11	6	125	150	M10	131.5	404.5
K6.4-W	24	50	9	5	80	95	M8	114.5	384.5
K7.3-W	38	80	11	6	125	150	M10	131.5	422
K7.4-W	24	50	9	5	80	95	M8	114.5	402

Reductores de engranajes cónicos K con adaptador para motores IEC



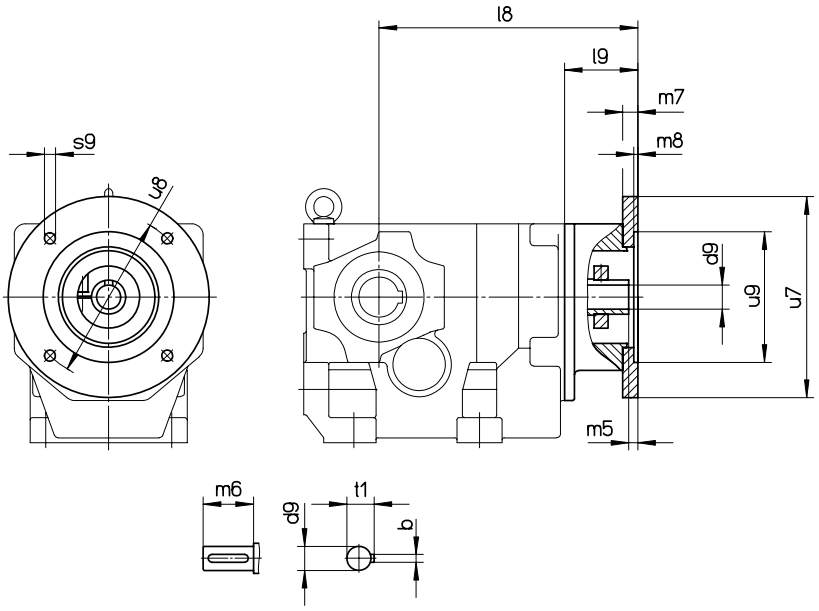
Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m7	m8	l8	l9
K3.3	**-M IEC71B14G**	140	115	95	9	14	30	5	16	5	15	4	213.5	58.5
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14G	160	130	110	9	19	40	6	21.5	7	15	4.5	223.5	68.5
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14K	140	115	95	9	24	50	8	27	9	15	4	234.5	79.5
	-M IEC90B14G	160	130	110	9							4.5		
	-M IEC90B5	200	165	130	11							4.5		
	-M IEC100B14K	160	130	110	9	28	60	8	31	9	15	4.5	242.5	87.5
	-M IEC100B14G	200	165	130	11							4.5		
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14K	160	130	110	9	28	60	8	31	9	15	4.5	242.5	87.5
	-M IEC112B14G	200	165	130	11							4.5		
	-M IEC112B5	250	215	180	14							5		
K3.4	**-M IEC63B14G**	120	100	80	7	11	23	4	12.5	4.5	12	4	201.5	46.5
	-M IEC63B5	140	115	95	9							4		
	-M IEC71B14G	140	115	95	9	14	30	5	16	5	12	4	205.5	50.5
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14K	120	100	80	7	19	40	6	21.5	7	12	4	214.5	59.5
	-M IEC80B14G	160	130	110	9							4.5		
	-M IEC80B5	200	165	130	11							4.5		
K4.3	**-M IEC80B14G**	160	130	110	9	19	40	6	21.5	7	15	4.5	247.5	63
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14G	160	130	110	9	24	50	8	27	9	15	4.5	258.5	74
	-M IEC90B5	200	165	130	11							4.5		
	-M IEC100B14K	160	130	110	9	28	60	8	31	9	15	4.5	266.5	82
	-M IEC100B14G	200	165	130	11							4.5		
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14K	160	130	110	9	28	60	8	31	9	15	4.5	266.5	82
	-M IEC112B14G	200	165	130	11							4.5		
	-M IEC112B5	250	215	180	14							5		
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	15	5	290.5	106

Reductores de engranajes cónicos K con adaptador para motores IEC



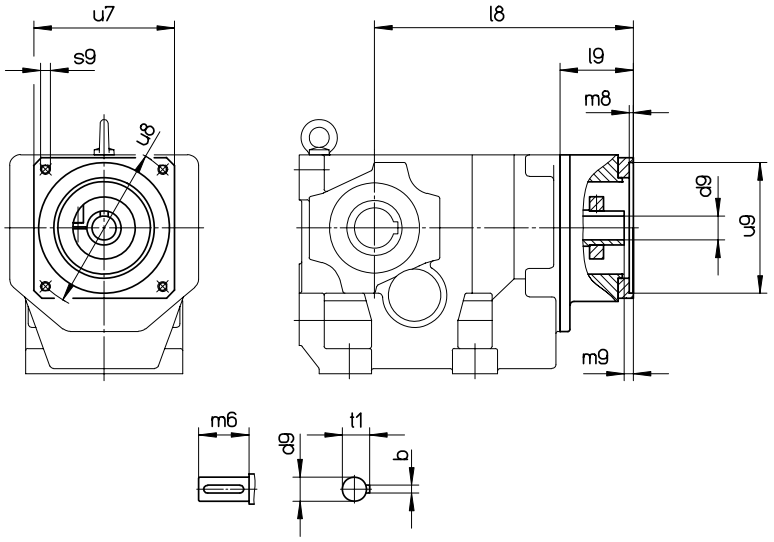
Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m7	m8	l8	l9
K4.4	**-M IEC63B14G**	120	100	80	7	11	23	4	12.5	4.5	12	4	243	43
	-M IEC63B5	140	115	95	9							4		
	-M IEC71B14G	140	115	95	9	14	30	5	16	5	12	4	247	47
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14K	120	100	80	7	19	40	6	21.5	7	12	4	256	56
	-M IEC80B14G	160	130	110	9							4.5		
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14K	140	115	95	9	24	40	8	27	9	12	4	268.5	68.5
	-M IEC90B14G	160	130	110	9							4.5		
	-M IEC90B5	200	165	130	11							4.5		
K5.3	**-M IEC90B5**	200	165	130	11	24	50	8	27	9	18	4.5	299.5	77.5
	-M IEC100B14G	200	165	130	11	28	60	8	31	9	18	4.5	309.5	87.5
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14G	200	165	130	11	28	60	8	31	9	18	4.5	309.5	87.5
	-M IEC112B5	250	215	180	14							5		
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	18	5	330.5	108.5
	-M IEC160B5	350	300	250	18	42	110	12	45	14	18	6	360.5	138.5
K5.4	**-M IEC71B14G**	140	115	95	9	14	30	5	16	5	15	4	300	58.5
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14G	160	130	110	9	19	40	6	21.5	7	15	4.5	310	68.5
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14K	140	115	95	9	24	50	8	27	9	15	4	321	79.5
	-M IEC90B14G	160	130	110	9							4.5		
	-M IEC90B5	200	165	130	11							4.5		
	-M IEC100B14K	160	130	110	9	28	60	8	31	9	15	4.5	329	87.5
	-M IEC100B14G	200	165	130	11							4.5		
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14K	160	130	110	9	28	60	8	31	9	15	4.5	329	87.5
	-M IEC112B14G	200	165	130	11							4.5		
	-M IEC112B5	250	215	180	14							5		

Reductores de engranajes cónicos K con adaptador para motores IEC



Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m7	m8	l8	l9
K6.3	**-M IEC100B5**	250	215	180	14	28	60	8	31	9	20	5	353	80
	-M IEC112B5	250	215	180	14	28	60	8	31	9	20	5	353	80
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	20	5	375	102
	-M IEC160B5	350	300	250	18	42	110	12	45	14	20	6	405	132
	-M IEC180B5	350	300	250	18	48	110	14	51.5	17	20	6	405	132
K6.4	**-M IEC80B14G**	160	130	110	9	19	40	6	21.5	7	15	4.5	359	63
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14G	160	130	110	9	24	50	8	27	9	15	4.5	370	74
	-M IEC90B5	200	165	130	11							4.5		
	-M IEC100B14K	160	130	110	9	28	60	8	31	9	15	4.5	378	82
	-M IEC100B14G	200	165	130	11							4.5		
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14K	160	130	110	9	28	60	8	31	9	15	4.5	378	82
	-M IEC112B14G	200	165	130	11							4.5		
	-M IEC112B5	250	215	180	14							5		
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	15	5	402	106
K7.3	**-M IEC100B5**	250	215	180	14	28	60	8	31	9	20	5	370.5	80
	-M IEC112B5	250	215	180	14	28	60	8	31	9	20	5	370.5	80
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	20	5	392.5	102
	-M IEC160B5	350	300	250	18	42	110	12	45	14	20	6	422.5	132
	-M IEC180B5	350	300	250	18	48	110	14	51.5	17	20	6	422.5	132
K7.4	**-M IEC80B14G**	160	130	110	9	19	40	6	21.5	7	15	4.5	376.5	63
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14G	160	130	110	9	24	50	8	27	9	15	4.5	387.5	74
	-M IEC90B5	200	165	130	11							4.5		
	-M IEC100B14K	160	130	110	9	28	60	8	31	9	15	4.5	395.5	82
	-M IEC100B14G	200	165	130	11							4.5		
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14K	160	130	110	9	28	60	8	31	9	15	4.5	395.5	82
	-M IEC112B14G	200	165	130	11							4.5		
	-M IEC112B5	250	215	180	14							5		
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	15	5	419.5	106

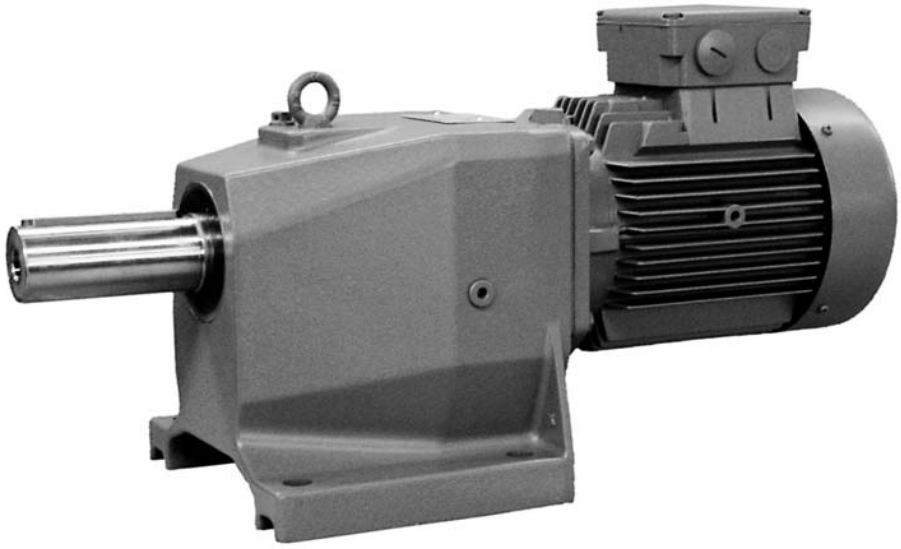
Reductores de engranajes cónicos K con adaptador para servomotores



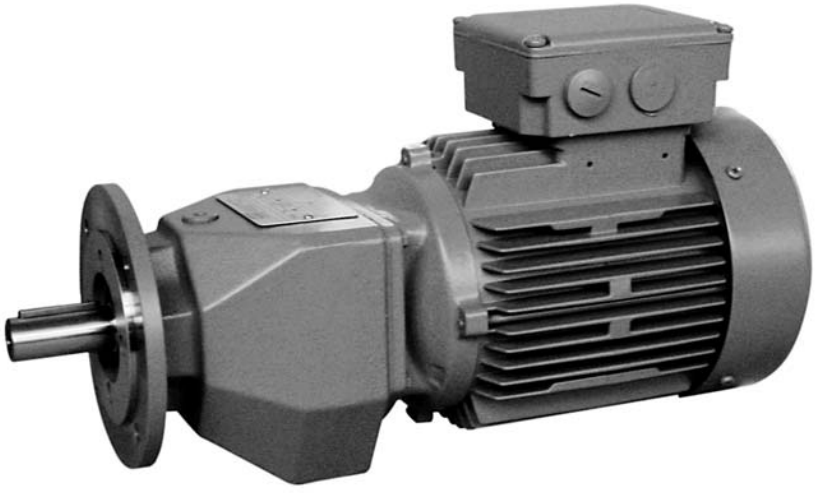
Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m8	l8	l9
K3.3	**-M S4C**	92	100	80	M6	14	30	5	16	5	4	213.5	58.5
	-M S4D	110	115	95	M8	19	40	6	21.5	7	4	223.5	68.5
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	234.5	79.5
K3.4	**-M S4B**	70	75	60	M5	11	23	4	12.2	4.5	3.5	201.5	46.5
	-M S4C	92	100	80	M6	14	30	5	16	5	4	205.5	50.5
	-M S4D	110	115	95	M8	19	40	6	21.5	7	4	214.5	59.5
K4.3	**-M S4D**	110	115	95	M8	19	40	6	21.5	7	4	247.5	63
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	258.5	74
	-M S4F	190	215	180	M12	32	58	10	35	9	5	266.5	82
K4.4	**-M S4B**	70	75	60	M5	11	23	4	12.2	4.5	3.5	243	43
	-M S4C	92	100	80	M6	14	30	5	16	5	4	247	47
	-M S4D	110	115	95	M8	19	40	6	21.5	7	4	256	56
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	268.5	68.5
K5.3	**-M S4E**	140	165	130	M10	24	50	8	27	9	4.5	299.5	77.5
	-M S4F	190	215	180	M12	32	58	10	35	9	5	309.5	87.5
K5.4	**-M S4C**	92	100	80	M6	14	30	5	16	5	4	300	58.5
	-M S4D	110	115	95	M8	19	40	6	21.5	7	4	310	68.5
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	321	79.5
K6.3	**-M S4F**	190	215	180	M12	32	58	10	35	9	5	353	80
K6.4	**-M S4D**	110	115	95	M8	19	40	6	21.5	7	4	359	63
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	370	74
	-M S4F	190	215	180	M12	32	58	10	35	9	5	378	82
K7.3	**-M S4F**	190	215	180	M12	32	58	10	35	9	5	370.5	80
K7.4	**-M S4D**	110	115	95	M8	19	40	6	21.5	7	4	376.5	63
	-M S4E	140	165	130	M10	24	50	8	27	9	4.5	387.5	74
	-M S4F	190	215	180	M12	32	58	10	35	9	5	395.5	82

Motorreductores de engranajes helicoidales ZG

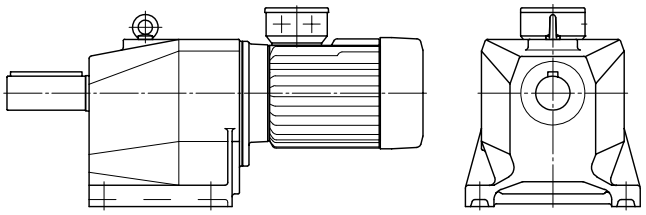
ZG3 DA100L4



ZG0 DA80K4

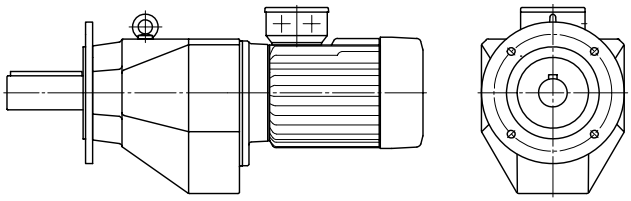


Motorreductores de engranajes helicoidales ZG



Ejecución con patas B3

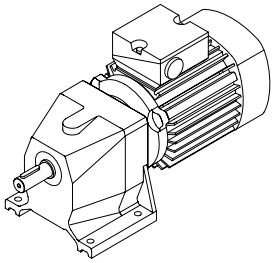
Ejemplo: ZG3 DA100LX4, Ejecución con patas B3



Ejecución con brida B5

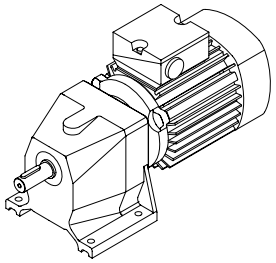
Ejemplo: ZG1 DA80G4, Ejecución con brida B5

Motorreductores de engranajes helicoidales ZG



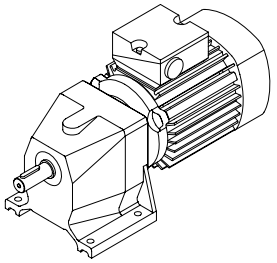
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.12									
	2	585	2.0	722.000	14600	17200	**ZG4/3 DL63K4**	172	65
	2.5	475	2.5	582.67	14600	17500			
	3.15	345	1.5	422.22	9200	10700	**ZG3/3 DL63K4**	171	36
	4	285	1.8	351.85	9200	10900			
	5	220	2.3	270.65	9200	11100			
	6.3	181	1.4	222.22	5500	7170	**ZG2/3 DL63K4**	170	24
	8	141	1.8	173.74	5500	7350			
	10	115	2.2	141.41	5500	7470			
	12.5	85	3.0	105.05	5500	7610			
	16	68	1.7	54.83	4250	5420	**ZG1 DL63G6**	169	15
	20	54	1.1	66.35	2700	2930	**ZG0 DL63K4**	168	12
	25	43	1.5	53.06	2570	2990			
	31.5	35	1.8	42.67	2440	3050			
	40	29	2.2	35.56	2330	3090			
	50	22	2.8	27.35	2170	3130			
	63	17	3.6	21.06	2030	3170			
	80	14	4.4	17.28	1920	3190			
	100	11	5.6	13.67	1790	3200			
	125	9.2	6.8	11.28	1690	3220			
	160	7.0	8.9	8.59	1560	3230			
	200	5.5	11.3	6.73	1440	3240			
	250	4.2	14.9	5.13	1330	2980			
	315	3.8	16.6	4.66	1290	2840			
	400	2.7	23.1	3.36	1160	2440			
0.18									
	2	880	1.4	722.000	14600	16300	**ZG4/3 DL63G4**	172	65
	2.5	710	1.7	582.67	14600	16800			
	3.15	525	2.2	429.47	14600	17400			
	4	430	1.2	351.85	9200	10300	**ZG3/3 DL63G4**	171	36
	5	330	1.5	270.65	9200	10700			
	6.3	260	2.2	212.33	9200	11000			
	8	210	1.2	173.74	5500	7020	**ZG2/3 DL63G4**	170	24
	10	172	1.5	141.41	5500	7200			
	12.5	128	2.0	105.05	5500	7410			
	16	102	1.1	54.83	4250	5230	**ZG1 DL71K6**	169	15
	20	83	1.4	67.94	4250	5330	**ZG1 DL63G4**	169	15
	25	67	1.8	54.83	4250	5420			
	31.5	52	1.2	42.67	2270	2940	**ZG0 DL63G4**	168	12
	40	43	1.5	35.56	2190	2990			
	50	33	1.9	27.35	2070	3060			
	63	26	2.4	21.06	1950	3110			
	80	21	2.9	17.28	1850	3140			
	100	17	3.7	13.67	1740	3170			
	125	14	4.5	11.28	1650	3190			
	160	10	5.9	8.59	1520	3210			
	200	8.2	7.6	6.73	1420	3220			
	250	6.3	9.9	5.13	1310	2930			
	315	5.7	11.1	4.66	1270	2800			
	400	4.1	15.4	3.36	1150	2410			

Motorreductores de engranajes helicoidales ZG



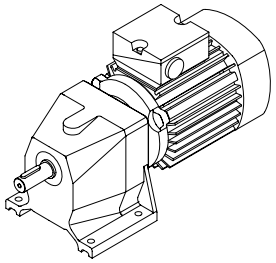
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.25									
	2.5	1000	1.2	582.67	14600	15900	**ZG4/3 DL71K4**	172	65
	3.15	740	1.6	429.47	14600	16700			
	4	575	2.0	333.41	14600	17200			
	5	470	2.5	271.25	14600	17500			
	6.3	365	1.6	212.33	9200	10600	**ZG3/3 DL71K4**	171	36
	8	300	1.9	174.200	9200	10800			
	10	240	2.4	137.800	9200	11100			
	12.5	181	1.4	105.05	5500	7160	**ZG2/3 DL71K4**	170	24
	16	139	1.8	80.81	5500	7360			
	20	117	1.0	67.94	4250	5140	**ZG1 DL71K4**	169	15
	25	95	1.2	54.83	4250	5270			
	31.5	78	1.5	45.29	4250	5360			
	40	61	1.9	35.16	4250	5460			
	50	49	2.4	28.61	4090	5520			
	63	36	1.7	21.06	1860	3040	**ZG0 DL71K4**	168	12
	80	30	2.1	17.28	1780	3080			
	100	24	2.6	13.67	1680	3120			
	125	19	3.2	11.28	1600	3150			
	160	15	4.2	8.59	1490	3180			
	200	12	5.3	6.73	1400	3200			
	250	8.8	7.0	5.13	1290	2910			
	315	8.0	7.8	4.66	1250	2780			
	400	5.8	10.9	3.36	1140	2400			
0.37									
	4	855	1.4	333.41	14600	16300	**ZG4/3 DL71G4**	172	66
	5	695	1.7	271.25	14600	16800			
	6.3	555	2.1	217.14	14600	17300			
	8	445	1.3	174.200	9200	10300	**ZG3/3 DL71G4**	171	37
	10	355	1.6	137.800	9200	10600			
	12.5	290	2.0	113.750	9200	10900			
	16	205	1.2	80.81	5500	7040	**ZG2/3 DL71G4**	170	24
	20	177	1.4	69.09	5500	7180	**ZG2 DL71G4**	170	22
	25	147	1.7	57.58	5500	7320			
	31.5	116	1.0	45.29	4250	5150	**ZG1 DL71G4**	169	16
	40	90	1.3	35.16	4090	5290			
	50	73	1.6	28.61	3900	5390			
	63	54	1.1	21.06	1700	2930	**ZG0 DL71G4**	168	12
	80	44	1.4	17.28	1650	2990			
	100	35	1.8	13.67	1580	3050			
	125	29	2.1	11.28	1520	3090			
	160	22	2.8	8.59	1430	3130			
	200	17	3.6	6.73	1340	3160			
	250	13	4.7	5.13	1250	2830			
	315	12	5.3	4.66	1220	2710			
	400	8.6	7.3	3.36	1110	2350			
0.55									
	4	1360	1.7	359.33	27000	31400	**ZG5/3 DA80K4**	173	105
	5	1000	2.3	264.11	27000	29500			

Motorreductores de engranajes helicoidales ZG



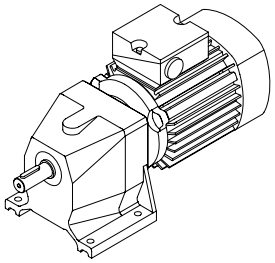
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
0.55									
	6.3	820	1.5	217.14	14600	16500	**ZG4/3 DA80K4**	172	64
	8	665	1.8	176.43	14600	16900			
	10	555	2.1	147.25	14600	17300			
	16	325	1.7	86.61	9200	10700	**ZG3/3 DA80K4**	171	38
	20	260	0.9	69.09	5500	6790	**ZG2 DA80K4**	170	24
	25	220	1.2	57.58	5500	6990			
	31.5	169	1.5	44.85	5300	7220			
	40	137	1.9	36.36	5080	7370			
	50	101	2.5	26.73	4740	7530			
	63	77	1.5	20.43	3380	5360	**ZG1 DA80K4**	169	18
	80	63	1.9	16.60	3230	5450			
	100	52	1.2	13.67	1420	2940	**ZG0 DA80K4**	168	15
	125	43	1.5	11.28	1380	3000			
	160	32	1.9	8.59	1320	3070			
	200	25	2.4	6.73	1260	3010			
	250	19	3.2	5.13	1190	2690			
	315	18	3.6	4.66	1160	2580			
	400	13	5.0	3.36	1070	2270			
0.75									
	4	1830	1.2	359.33	27000	29700	**ZG5/3 DA80G4**	173	108
	5	1340	1.7	264.11	27000	28100			
	6.3	1080	2.1	213.03	27000	27000			
	8	895	1.3	176.43	14600	16200	**ZG4/3 DA80G4**	172	66
	10	750	1.6	147.25	14600	16700			
	12.5	570	2.1	112.03	14600	17200			
	16	440	1.3	86.61	9200	10300	**ZG3/3 DA80G4**	171	40
	20	355	1.2	69.60	9200	10600	**ZG3 DA80G4**	171	37
	25	275	1.8	54.60	8910	10900			
	31.5	230	1.1	44.85	4890	6950	**ZG2 DA80G4**	170	26
	40	185	1.4	36.36	4740	7150			
	50	136	1.9	26.73	4480	7370			
	63	104	1.1	20.43	3150	5210	**ZG1 DA80G4**	169	21
	80	84	1.4	16.60	3040	5320			
	100	70	1.7	13.86	2930	5400			
	125	57	1.1	11.28	1240	2910	**ZG0 DA80G4**	168	17
	160	44	1.4	8.59	1210	3000			
	200	34	1.8	6.73	1170	2800			
	250	26	2.4	5.13	1120	2540			
	315	24	2.7	4.66	1100	2450			
	400	17	3.7	3.36	1020	2180			
1.1									
	8	1360	1.7	179.67	27000	24600	**ZG5/3 DA90S4**	173	109
	10	1020	2.2	134.75	27000	23400			
	12.5	845	1.4	112.03	14600	16400	**ZG4/3 DA90S4**	172	68
	16	670	1.8	88.67	14600	16900			

Motorreductores de engranajes helicoidales ZG



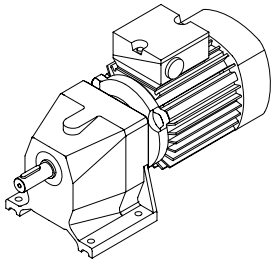
P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
1.1									
	20	525	0.8	69.60	8550	9970	**ZG3 DA90S4**	171	38
	25	415	1.2	54.60	8260	10400			
	31.5	335	1.5	44.40	7970	10700			
	40	250	2.0	32.94	7500	11000			
	50	210	2.4	28.08	7230	11200			
	63	163	1.6	21.56	3950	7250	**ZG2 DA90S4**	170	27
	80	137	1.9	18.18	3850	7370			
	100	105	1.1	13.86	2670	5210	**ZG1 DA90S4**	169	22
	125	80	1.5	10.54	2570	5350			
	160	63	1.9	8.34	2460	5440			
	200	51	2.3	6.79	2360	5390			
	250	38	3.1	5.06	2210	4760			
	315	34	3.5	4.56	2150	4550			
	400	26	4.8	3.38	1990	4050			
1.5									
	8	1830	1.2	179.67	27000	22900	**ZG5/3 DA90L4**	173	11
	10	1370	1.6	134.75	27000	22100			
	12.5	1160	1.9	113.79	27000	21500			
	16	905	1.3	88.67	14600	16200	**ZG4/3 DA90L4**	172	70
	20	710	1.3	69.60	14500	16800	**ZG4 DA90L4**	172	66
	25	580	1.7	57.00	13900	17200			
	31.5	455	1.1	44.40	7320	10300	**ZG3 DA90L4**	171	41
	40	335	1.5	32.94	7010	10700			
	50	285	1.8	28.08	6820	10900			
	63	220	1.2	21.56	3560	6980	**ZG2 DA90L4**	170	30
	80	185	1.4	18.18	3510	7140			
	100	139	1.8	13.64	3380	7360			
	125	107	1.1	10.54	2330	5190	**ZG1 DA90L4**	169	24
	160	85	1.4	8.34	2270	5320			
	200	69	1.7	6.79	2200	5030			
	250	52	2.3	5.06	2090	4510			
	315	46	2.6	4.56	2040	4330			
	400	34	3.5	3.38	1910	3890			
2.2									
	12.5	1720	1.3	113.79	27000	19700	**ZG5/3 DA100L4**	173	113
	16	1350	1.7	89.14	27000	19100			
	20	1050	0.8	69.60	13200	15800	**ZG4 DA100L4**	172	67
	25	860	1.2	57.00	12900	16300			
	31.5	645	1.6	42.66	12200	17000			
	40	545	1.9	36.18	11800	17300			
	50	440	2.3	29.25	11300	17600			
	63	345	1.5	22.73	5980	10700	**ZG3 DA100L4**	171	42
	80	260	1.9	17.10	5720	11000			

Motorreductores de engranajes helicoidales ZG



P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
2.2									
	100	205	1.2	13.64	2950	7050	**ZG2 DA100L4**	170	31
	125	174	1.5	11.52	2930	7190			
	160	136	1.9	9.02	2860	6640			
	200	107	2.4	7.09	2760	6120			
	250	80	3.2	5.30	2620	5550			
	315	72	3.5	4.78	2560	5340			
	400	54	4.8	3.56	2400	4830			
3.0									
	16	1810	1.2	89.14	27000	17400	**ZG5/3 DA100LX4**	173	120
	20	1470	1.2	72.11	27000	17200	**ZG5 DA100LX4**	173	112
	25	1100	1.8	53.90	27000	16600			
	31.5	865	1.2	42.66	11300	16300	**ZG4 DA100LX4**	172	74
	40	735	1.4	36.18	11000	16700			
	50	595	1.7	29.25	10600	17200			
	63	460	1.1	22.73	5330	10200	**ZG3 DA100LX4**	171	49
	80	345	1.4	17.10	5230	10700			
	100	270	1.9	13.28	5060	11000			
	125	235	1.1	11.52	2510	6220	**ZG2 DA100LX4**	170	38
	160	183	1.4	9.02	2530	5920			
	200	144	1.8	7.09	2500	5580			
	250	108	2.4	5.30	2430	5160			
	315	97	2.6	4.78	2380	4990			
	400	72	3.5	3.56	2260	4570			
4.0									
	20	1970	0.9	72.11	27000	15500	**ZG5 DA112M4**	173	117
	25	1470	1.3	53.90	27000	15300			
	31.5	1260	1.5	46.20	27000	15100			
	40	1030	1.9	37.58	27000	14800			
	50	790	2.4	28.97	27000	14200			
	63	620	1.6	22.73	9490	17100	**ZG4 DA112M4**	172	79
	80	490	2.1	18.00	9100	17500			
	100	360	1.4	13.28	4590	10600	**ZG3 DA112M4**	171	54
	125	315	1.6	11.63	4550	10400			
	160	235	2.2	8.55	4380	9420			
	200	190	2.6	6.97	4240	8800			
	250	143	3.5	5.25	4010	8000			
	315	128	4.1	4.68	3900	7670			
	400	96	5.0	3.53	3660	6970			
5.5									
	31.5	1690	1.1	46.20	27000	13500	**ZG5 DA132S4**	173	132
	40	1370	1.4	37.58	27000	13400			
	50	1060	1.8	28.97	26500	13100			
	63	830	1.2	22.73	8570	16400	**ZG4 DA132S4**	172	95
	80	655	1.6	18.00	8360	17000			
	100	510	2.0	14.04	8050	17400			

Motorreductores de engranajes helicoidales ZG

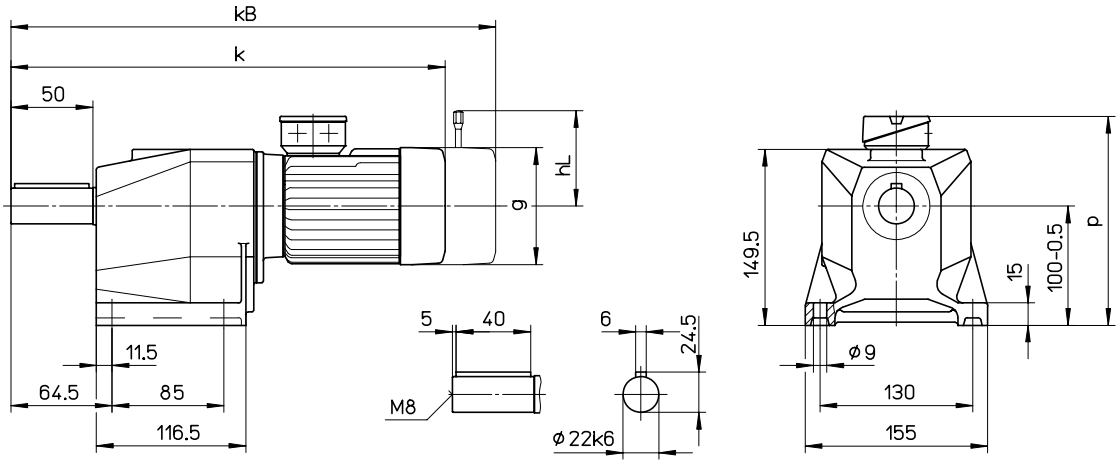


P	n2	M	cG	i	Fr	Fa	Tipo	Dimensiones	Peso
[kW]	[1/min]	[Nm]			[N]	[N]		Página	[kg]
5.5									
	125	425	1.2	11.63	3930	9000	**ZG3 DA132S4**	171	70
	160	310	1.6	8.55	3920	8430			
	200	255	2.0	6.97	3860	8010			
	250	191	2.6	5.25	3710	7420			
	315	171	3.1	4.68	3630	7150			
	400	129	3.7	3.53	3450	6570			
7.5									
	63	1080	1.8	21.75	23600	11700	**ZG5 DA132M4**	173	137
	80	910	2.1	18.26	23200	11500			
	100	700	1.5	14.04	7330	16400	**ZG4 DA132M4**	172	99
	125	595	1.7	11.93	7200	15600			
	160	430	2.4	8.64	6870	14000			
	200	350	3.0	6.99	6610	13100			
	250	285	3.6	5.68	6330	12200			
	315	250	4.3	5.07	6160	11700			
	400	185	5.6	3.72	5720	10500			
11.0									
	63	1560	1.2	21.75	20200	9970	**ZG5 DA160M4**	173	160
	80	1310	1.5	18.26	20300	10000			
	100	1030	1.9	14.40	20200	9990			
	125	855	1.2	11.93	6130	13200	**ZG4 DA160M4**	172	121
	160	620	1.7	8.64	6080	12400			
	200	500	2.1	6.99	5960	11800			
	250	410	2.5	5.68	5800	11200			
	315	365	3.0	5.07	5680	10800			
	400	265	3.9	3.72	5360	9880			
15.0									
	100	1410	1.4	14.40	17600	8710	**ZG5 DA160L4**	173	179
	125	1150	1.7	11.73	17800	8790			
	160	870	2.2	8.91	17600	8730			
	200	700	2.7	7.17	17300	8570			
	250	565	3.4	5.80	16800	8350			
	315	505	4.0	5.17	16500	8180			
	400	370	5.3	3.77	15600	7760			
18.5									
	125	1420	1.4	11.73	16000	7880	**ZG5 DA180M4**	173	204
	160	1070	1.8	8.91	16300	8040			
	200	865	2.2	7.17	16200	8010			
	250	700	2.8	5.80	16000	7900			
	315	625	3.2	5.17	15700	7770			
	400	455	4.3	3.77	15100	7460			

Motorreductores de engranajes helicoidales ZG

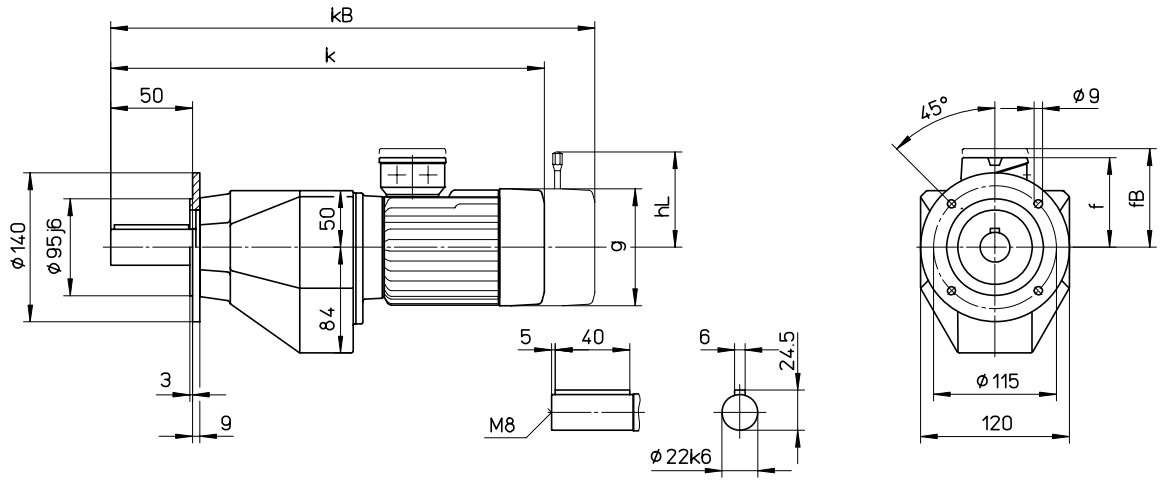
ZG0

Versión con pie



ZG0

Versión con brida B5



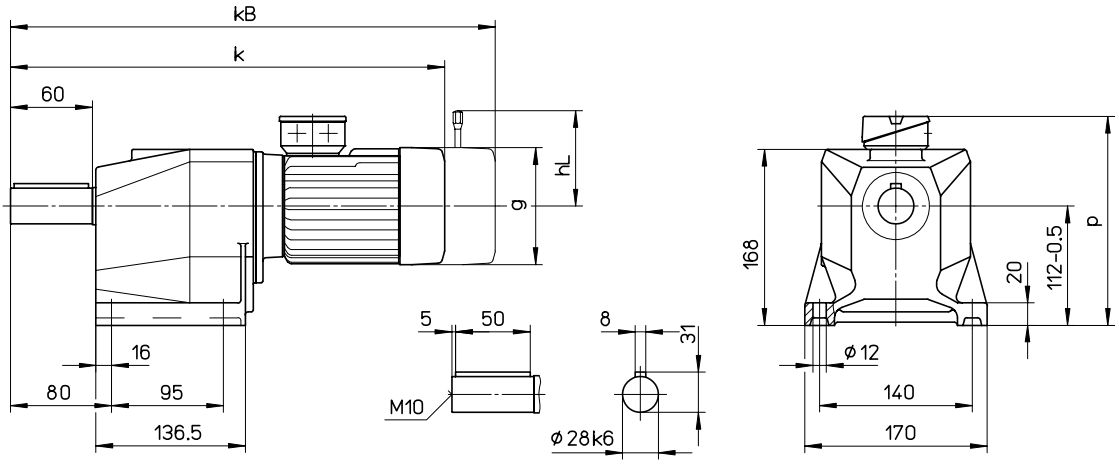
	k	kB	g	p	f	hL
ZG0 DL63/71	368	420	126	213	113	106
ZG0 DA80	417	488	158	235	135	128

Las cotas kB y hL conciernen a los motorreductores con freno.

Motorreductores de engranajes helicoidales ZG

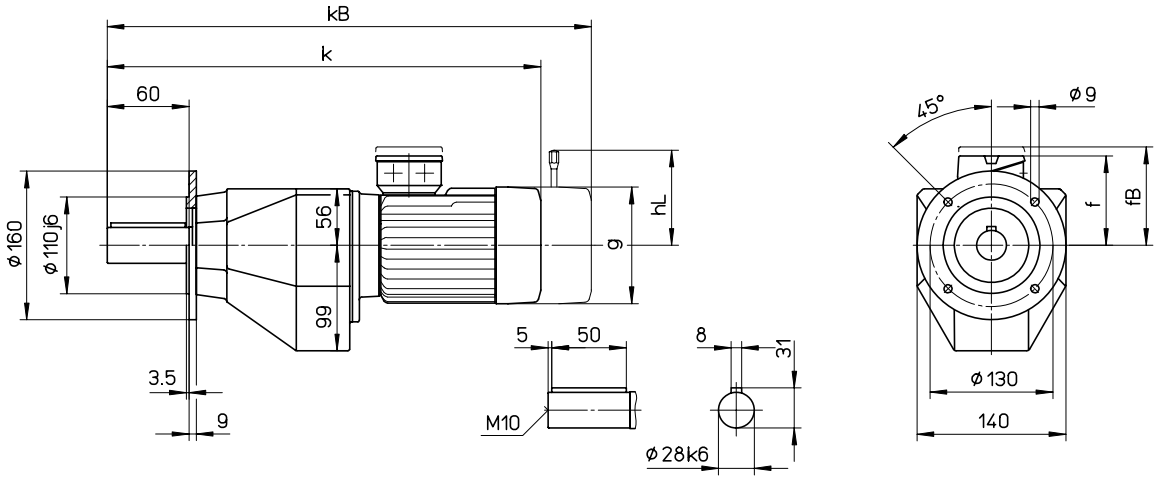
ZG1

Versión con pie



ZG1

Versión con brida B5

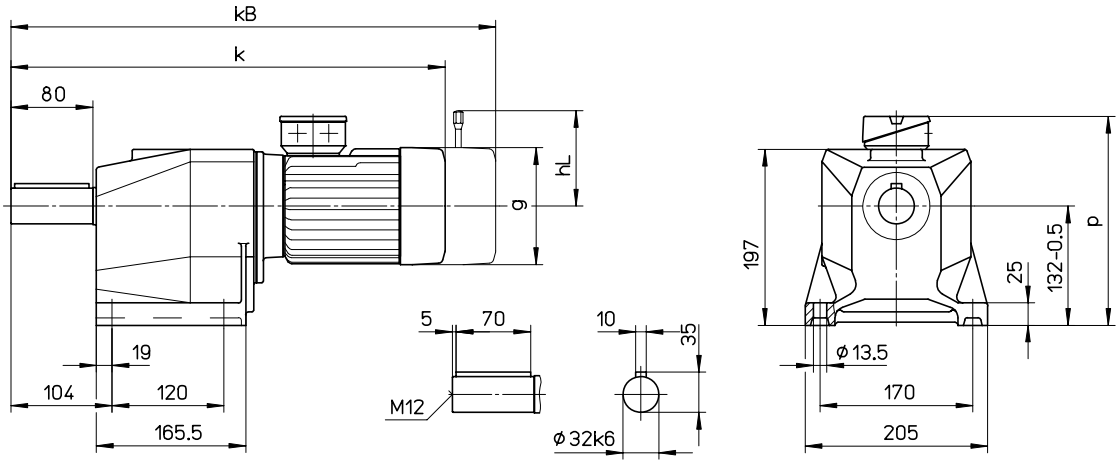


	k	kB	g	p	f	hL
ZG1 DL63/71	399	451	126	225	113	106
ZG1 DA80	447	518	158	247	135	128
ZG1 DA90S	447	518	158	247	135	128
ZG1 DA90L	494	559	176	261	149	168

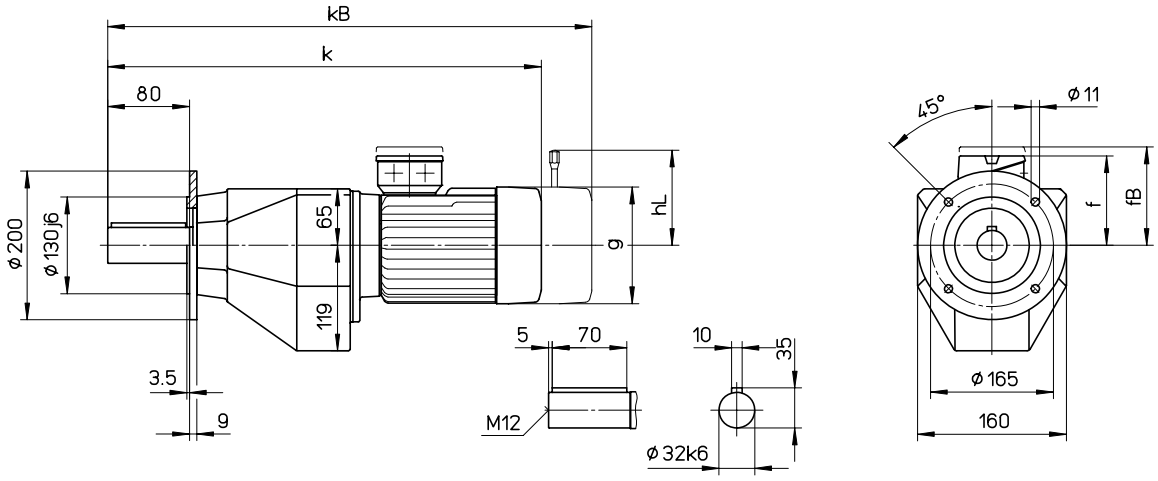
Las cotas kB y hL conciernen a los motorreductores con freno.

Motorreductores de engranajes helicoidales ZG

ZG2, ZG2/3 Versión con pie



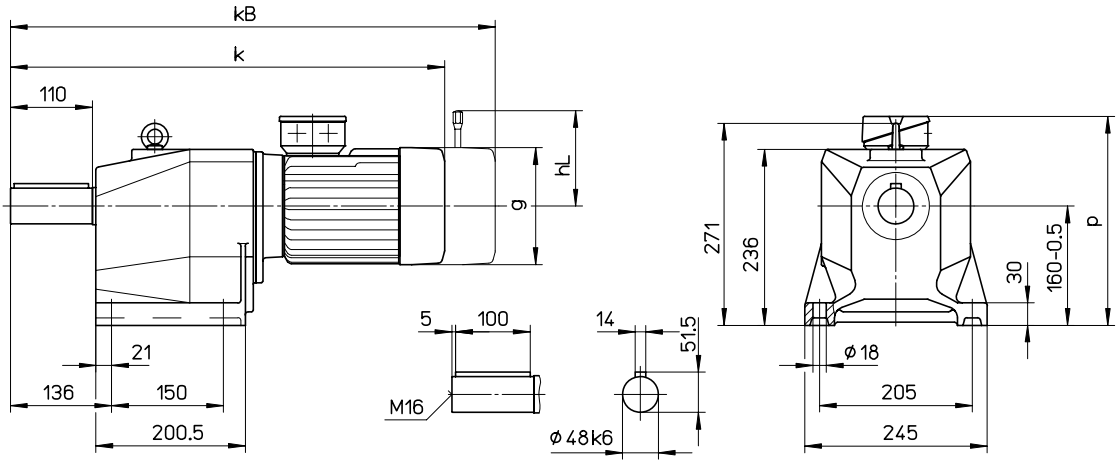
ZG2, ZG2/3 Versión con brida B5



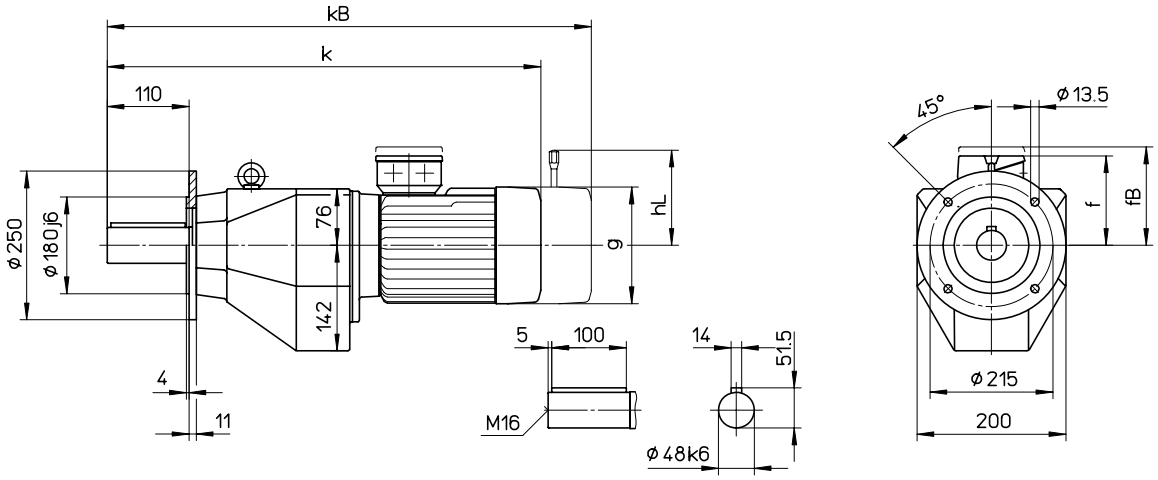
	k	kB	g	p	f	hL
ZG2/3 DL63/71	473	525	126	245	113	106
ZG2 DL63/71	447	499	126	245	113	106
ZG2 DA80	496	567	158	247	135	128
ZG2 DA90S	496	567	158	247	135	128
ZG2 DA90L	543	607	176	281	149	168
ZG2 DA100L	543	607	176	281	149	168
ZG2 DA100LX	580	654	195	288	156	176

Las cotas kB y hL conciernen a los motorreductores con freno.

ZG3, ZG3/3 Versión con pie



ZG3, ZG3/3 Versión con brida B5

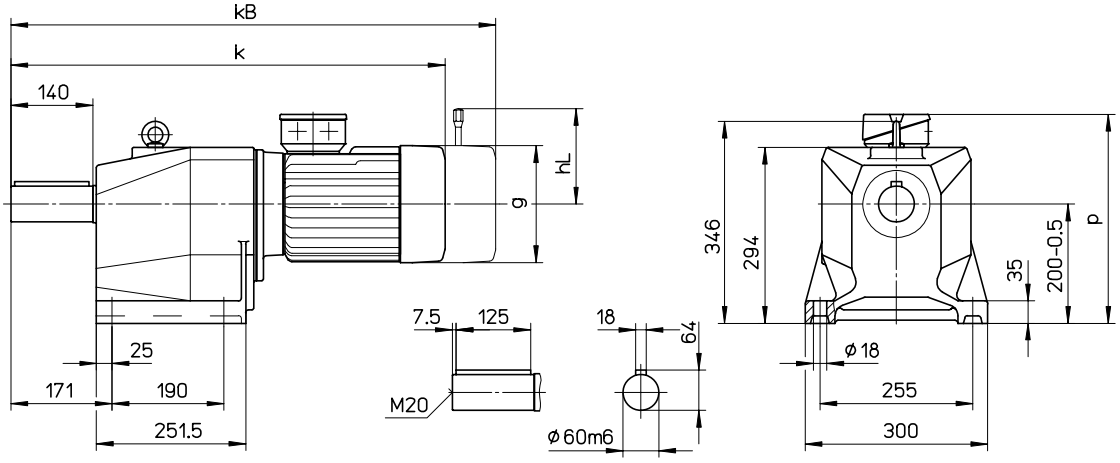


	k	kB	g	p	f	hL
ZG3/3 DL63/71	537	589	126	273	113	106
ZG3 DA80	558	629	158	295	135	128
ZG3/3 DA80	585	656	158	295	135	128
ZG3 DA90S	558	629	158	295	135	128
ZG3 DA90L	605	670	176	309	149	168
ZG3 DA100L	605	670	176	309	149	168
ZG3 DA100LX	643	717	195	316	156	176
ZG3 DA112	643	717	195	316	156	176
ZG3 DA132	747	846	245	348	188	225

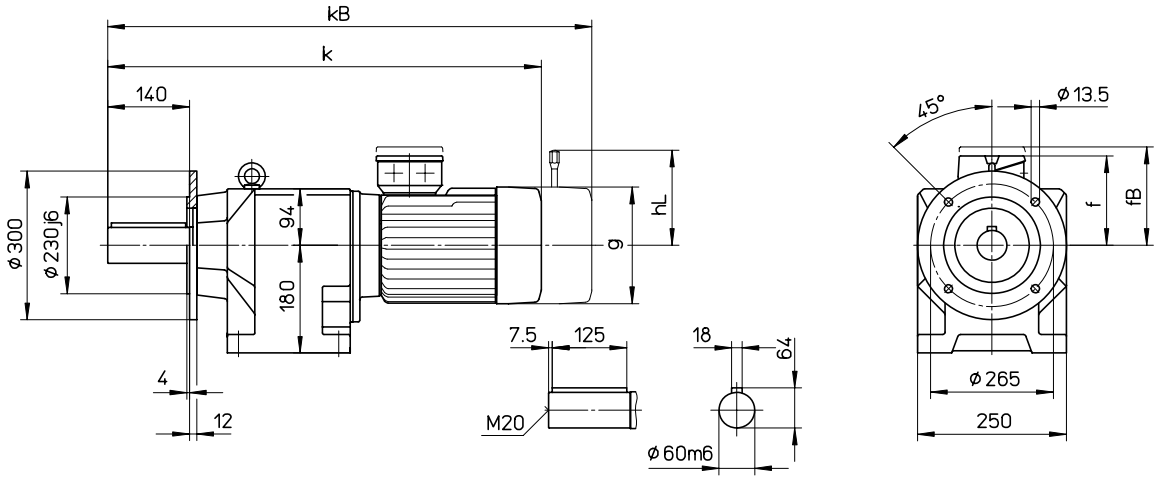
Las cotas kB y hL conciernen a los motorreductores con freno.

Motorreductores de engranajes helicoidales ZG

ZG4, ZG4/3 **Versión con pie**



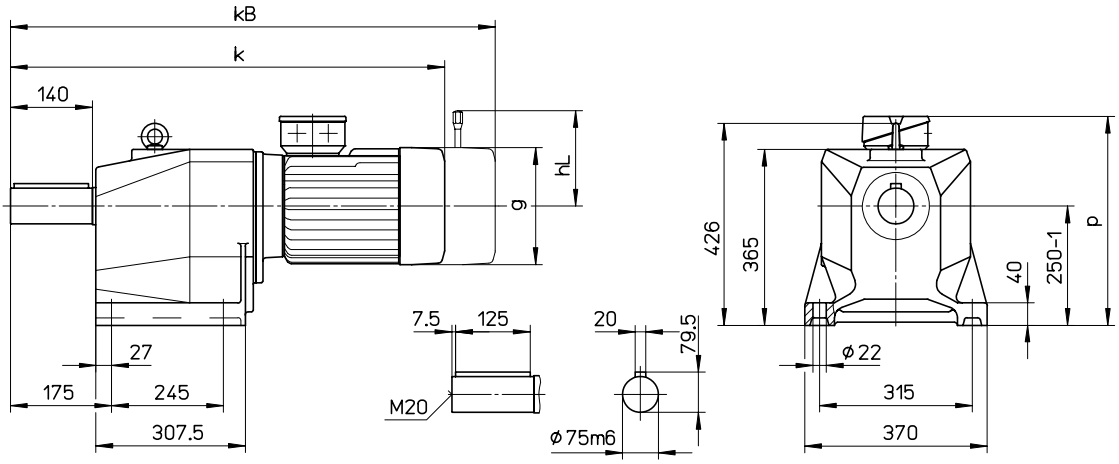
ZG4, ZG4/3 **Versión con brida B5**



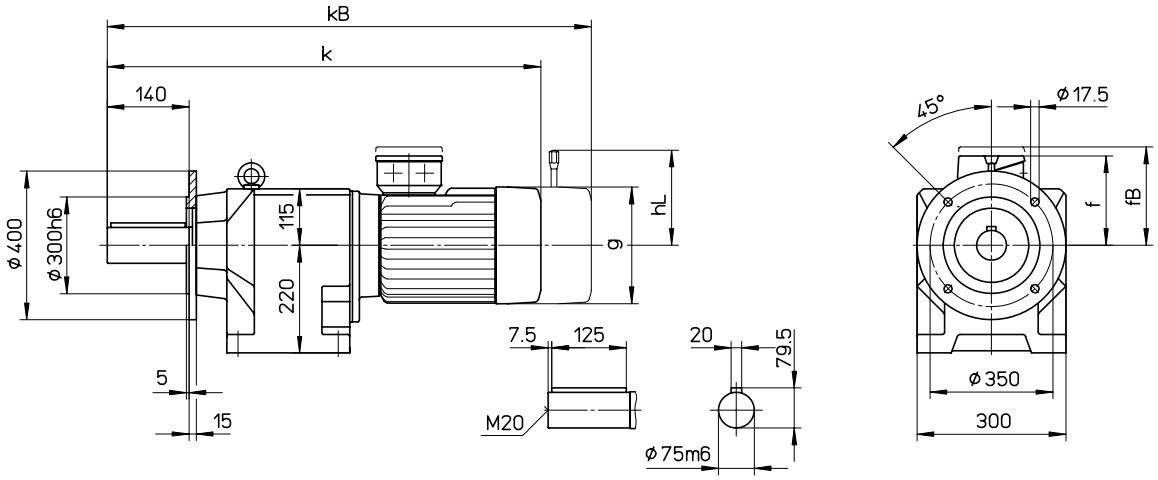
	k	kB	g	p	f	hL
ZG4/3 DL63/71	617	669	126	313	113	106
ZG4/3 DA80	666	737	158	335	135	128
ZG4 DA90L	680	744	176	355	155	168
ZG4/3 DA90S	666	737	158	335	135	128
ZG4/3 DA90L	713	778	176	349	149	168
ZG4 DA100L	680	744	176	349	149	168
ZG4 DA100LX	717	791	195	356	156	176
ZG4 DA112	717	791	195	356	156	176
ZG4 DA132	821	920	245	388	188	225
ZG4 DA160	946	1065	311	450	250	256

Las cotas kB y hL conciernen a los motorreductores con freno.

ZG5, ZG5/3 **Versión con pie**



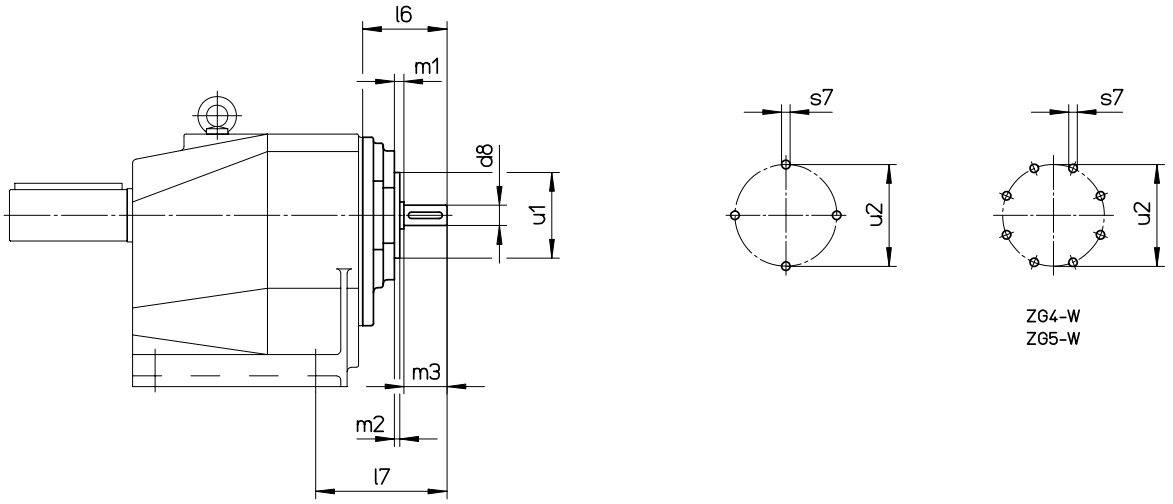
ZG5, ZG5/3 **Versión con brida B5**



	k	kB	g	p	f	hL
ZG5/3 DA80	704	775	158	285	135	128
ZG5/3 DA90S	704	775	158	285	135	128
ZG5/3 DA90L	751	816	176	399	149	168
ZG5/3 DA100L	751	816	176	399	149	168
ZG5/3 DA100LX	789	863	195	406	156	176
ZG5 DA112	750	824	195	406	156	176
ZG5 DA132	854	953	245	438	188	225
ZG5 DA160	978	1098	311	500	250	256
ZG5 DA180M	978	1098	311	500	250	256

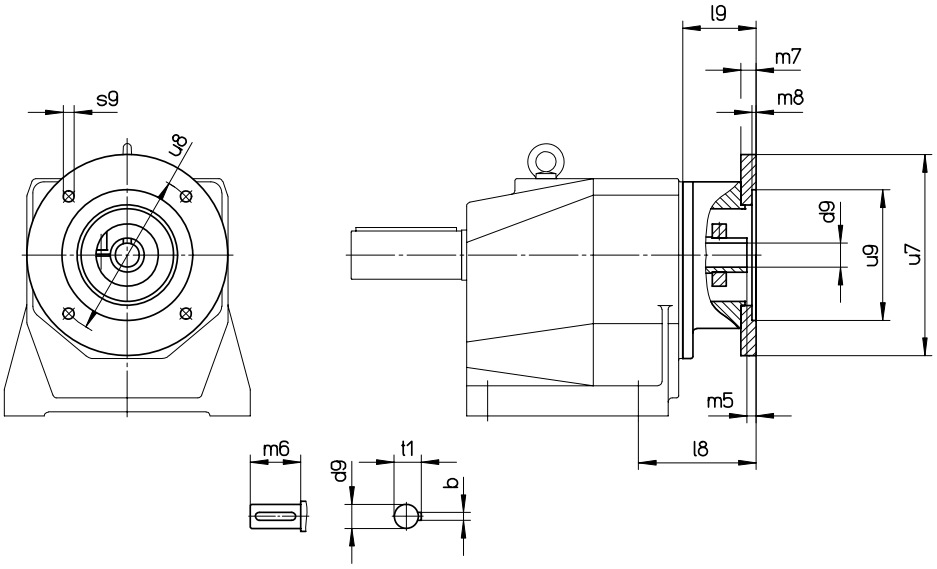
Las cotas kB y hL conciernen a los motorreductores con freno.

Reductores de engranajes helicoidales ZG



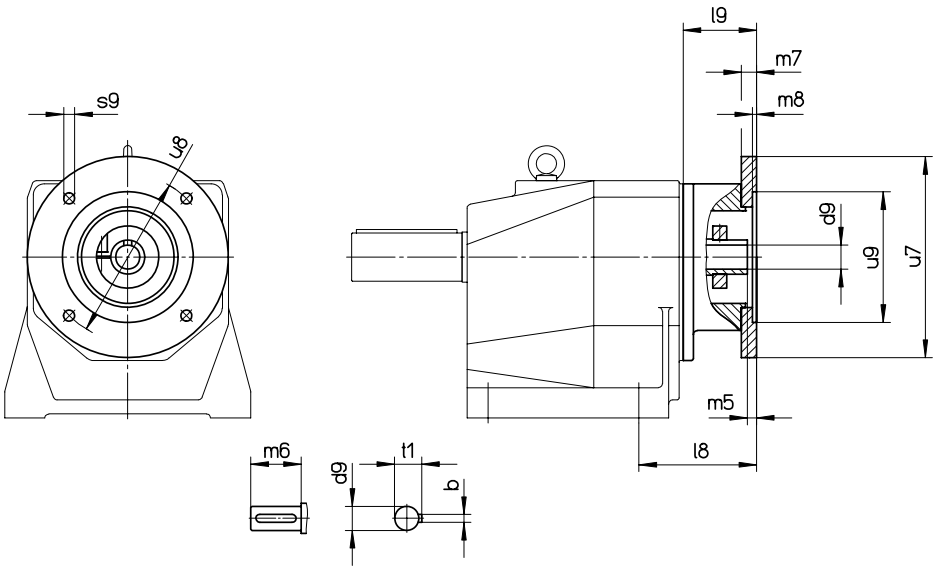
Reductor	d8	m3	m1	m2	u1	u2	s7	l6	l7
ZG0-W	14	40	8	5	54	67	M6	77.5	101.5
ZG1-W	14	40	8	5	54	67	M6	74	106.5
ZG2-W	19	40	9	5	80	95	M8	84.5	122
ZG2/3-W	14	40	8	5	54	67	M6	94.5	132
ZG3-W	24	50	9	5	80	95	M8	88.5	132.5
ZG3/3-W	14	40	8	5	54	67	M6	89.5	133.5
ZG4-W	28	60	11	6	125	150	M10	119.5	171
ZG4/3-W	19	40	9	5	80	95	M8	104	155.5
ZG5-W	38	80	11	6	125	150	M10	131.5	171
ZG5/3-W	24	50	9	5	80	95	M8	114.5	151

Reductores de engranajes helicoidales ZG con adaptador para motores IEC



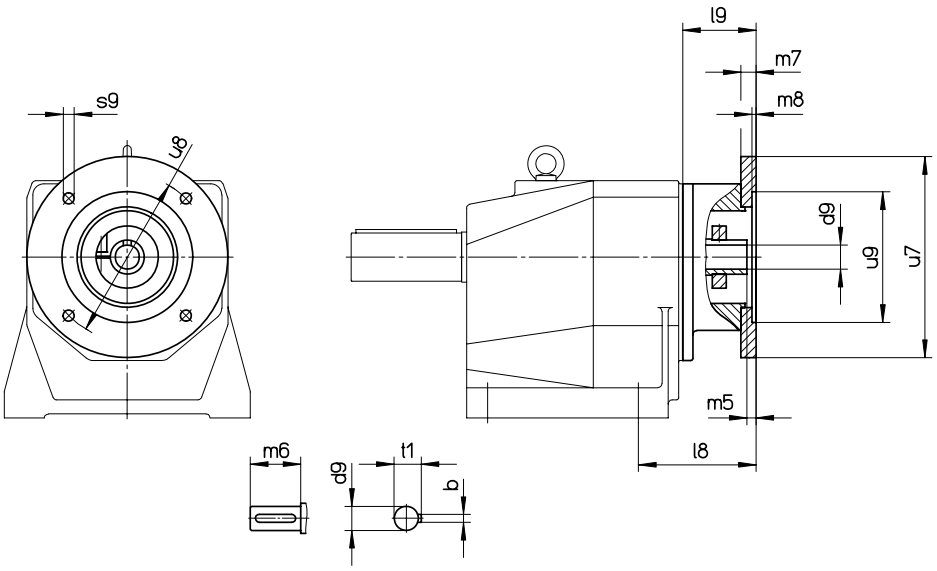
Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m7	m8	l8	l9
ZG0	**-M IEC63B14G**	120	100	80	7	11	23	4	12.5	4.5	12	4	70.5	46.5
	-M IEC63B5	140	115	95	9							4		
	-M IEC71B14G	140	115	95	9	14	30	5	16	5	12	4	74.5	50.5
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14K	120	100	80	7	19	40	6	21.5	7	12	4	83.5	59.5
	-M IEC80B14G	160	130	110	9							4.5		
	-M IEC80B5	200	165	130	11							4.5		
ZG1	**-M IEC63B14G**	120	100	80	7	11	23	4	12.5	4.5	12	4	75.5	43
	-M IEC63B5	140	115	95	9							4		
	-M IEC71B14G	140	115	95	9	14	30	5	16	5	12	4	79.5	47
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14K	120	100	80	7	19	40	6	21.5	7	12	4	88.5	56
	-M IEC80B14G	160	130	110	9							4.5		
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14K	140	115	95	9	24	40	8	27	9	12	4	101	68.5
	-M IEC90B14G	160	130	110	9							4.5		
	-M IEC90B5	200	165	130	11							4.5		
ZG2	**-M IEC71B14G**	140	115	95	9	14	30	5	16	5	15	4	96	58.5
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14G	160	130	110	9	19	40	6	21.5	7	15	4.5	106	68.5
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14K	140	115	95	9	24	50	8	27	9	15	4	117	79.5
	-M IEC90B14G	160	130	110	9							4.5		
	-M IEC90B5	200	165	130	11							4.5		
	-M IEC100B14K	160	130	110	9	28	60	8	31	9	15	4.5	125	87.5
	-M IEC100B14G	200	165	130	11							4.5		
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14K	160	130	110	9	28	60	8	31	9	15	4.5	125	87.5
	-M IEC112B14G	200	165	130	11							4.5		
	-M IEC112B5	250	215	180	14							5		

Reductores de engranajes helicoidales ZG con adaptador para motores IEC



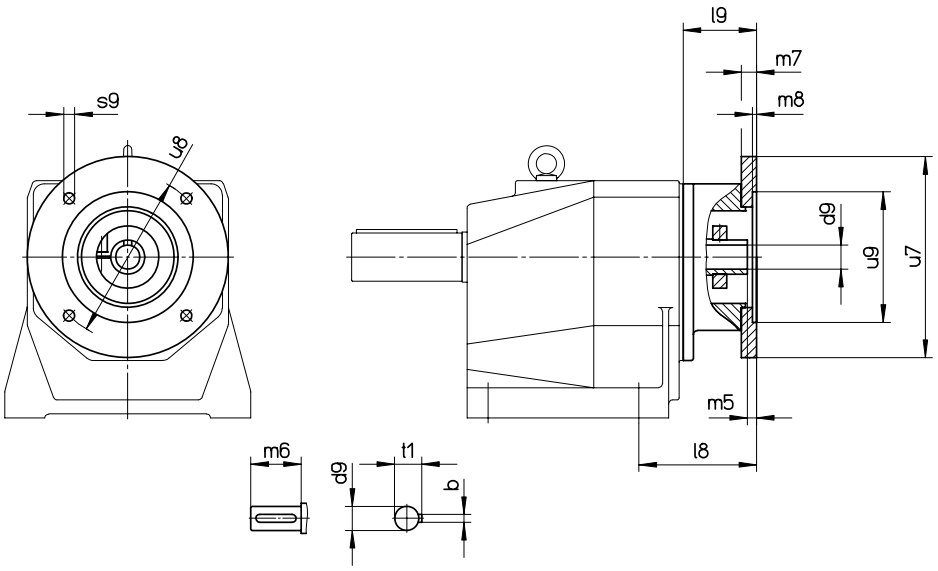
Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m7	m8	l8	l9
ZG2/3	**-M IEC63B14G**	120	100	80	7	11	23	4	12.5	4.5	12	4	101	46.5
	-M IEC63B5	140	115	95	9							4		
	-M IEC71B14G	140	115	95	9	14	30	5	16	5	12	4	105	50.5
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14K	120	100	80	7	19	40	6	21.5	7	12	4	114	59.5
	-M IEC80B14G	160	130	110	9							4.5		
	-M IEC80B5	200	165	130	11							4.5		
ZG3	**-M IEC80B14G**	160	130	110	9	19	40	6	21.5	7	15	4.5	107	63
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14G	160	130	110	9	24	50	8	27	9	15	4.5	118	74
	-M IEC90B5	200	165	130	11							4.5		
	-M IEC100B14K	160	130	110	9	28	60	8	31	9	15	4.5	126	82
	-M IEC100B14G	200	165	130	11							4.5		
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14K	160	130	110	9	28	60	8	31	9	15	4.5	126	82
	-M IEC112B14G	200	165	130	11							4.5		
	-M IEC112B5	250	215	180	14							5		
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	15	5	150	106
ZG3/3	**-M IEC63B14G**	120	100	80	7	11	23	4	12.5	4.5	12	4	102.5	43
	-M IEC63B5	140	115	95	9							4		
	-M IEC71B14G	140	115	95	9	14	30	5	16	5	12	4	106.5	47
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14K	120	100	80	7	19	40	6	21.5	7	12	4	115.5	56
	-M IEC80B14G	160	130	110	9							4.5		
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14K	140	115	95	9	24	40	8	27	9	12	4	128	68.5
	-M IEC90B14G	160	130	110	9							4.5		
	-M IEC90B5	200	165	130	11							4.5		

Reductores de engranajes helicoidales ZG con adaptador para motores IEC



Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m7	m8	l8	l9
ZG4	**-M IEC90B5**	200	165	130	11	24	50	8	27	9	18	4.5	129	77.5
	-M IEC100B14G	200	165	130	11	28	60	8	31	9	18	4.5	139	87.5
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14G	200	165	130	11	28	60	8	31	9	18	4.5	139	87.5
	-M IEC112B5	250	215	180	14							5		
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	18	5	160	108.5
	-M IEC160B5	350	300	250	18	42	110	12	45	14	18	6	190	138.5
ZG4/3	**-M IEC71B14G**	140	115	95	9	14	30	5	16	5	15	4	129.5	58.5
	-M IEC71B5	160	130	110	9							4.5		
	-M IEC80B14G	160	130	110	9	19	40	6	21.5	7	15	4.5	139.5	68.5
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14K	140	115	95	9	24	50	8	27	9	15	4	150.5	79.5
	-M IEC90B14G	160	130	110	9							4.5		
	-M IEC90B5	200	165	130	11							4.5		
	-M IEC100B14K	160	130	110	9	28	60	8	31	9	15	4.5	158.5	87.5
	-M IEC100B14G	200	165	130	11							4.5		
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14K	160	130	110	9	28	60	8	31	9	15	4.5	158.5	87.5
	-M IEC112B14G	200	165	130	11							4.5		
	-M IEC112B5	250	215	180	14							5		

Reductores de engranajes helicoidales ZG con adaptador para motores IEC



Reductor	Adaptador	u7	u8	u9	s9	d9	m6	b	t1	m5	m7	m8	l8	l9
ZG5	**-M IEC100B5**	250	215	180	14	28	60	8	31	9	20	5	119.5	80
	-M IEC112B5	250	215	180	14	28	60	8	31	9	20	5	119.5	80
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	20	5	141.5	102
	-M IEC160B5	350	300	250	18	42	110	12	45	14	20	6	171.5	132
	-M IEC180B5	350	300	250	18	48	110	14	51.5	17	20	6	171.5	132
ZG5/3	**-M IEC80B14G**	160	130	110	9	19	40	6	21.5	7	15	4.5	125.5	63
	-M IEC80B5	200	165	130	11							4.5		
	-M IEC90B14G	160	130	110	9	24	50	8	27	9	15	4.5	136.5	74
	-M IEC90B5	200	165	130	11							4.5		
	-M IEC100B14K	160	130	110	9	28	60	8	31	9	15	4.5	144.5	82
	-M IEC100B14G	200	165	130	11							4.5		
	-M IEC100B5	250	215	180	14							5		
	-M IEC112B14K	160	130	110	9	28	60	8	31	9	15	4.5	144.5	82
	-M IEC112B14G	200	165	130	11							4.5		
	-M IEC112B5	250	215	180	14							5		
	-M IEC132B5	300	265	230	14	38	80	10	41	13.5	15	5	168.5	106