

MLFB-Ordering data 1FG1102-1RD23-2AK1-Z
D01+G23+G99+K06+N23



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Gearbox data

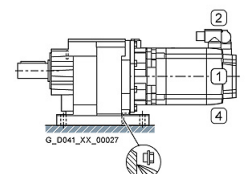
Gear box type	Z29	Radial force maximum	1010 N
Gearbox basic type	Helical geared	Max. permissible radial force with Mmax	875 N
Gearbox size	29	Moment of inertia	0.44 kgcm ²
Transmission stages	2	Torsional stiffness	9 Nm/°
Transmission (ratio)	9.53	Efficiency	0.95
Gear number relation	162/17	Mounting position	M1
Output moment maximum (short-time)	95 Nm	Mounting type	Foot-mounted
max. input speed (briefly)	4475 rpm	Output shaft version	Solid shaft standard
Output speed short-time	470 rpm	Output shaft dimension	V25x50 mm
Emergency off output moment (1000 cycles)	235 Nm	Gearbox flange diameter	-/-
Torsional backlash	12.08 '	Output shaft bearing	No
		Figure 2 torque support	-

General tech. specifications

Degree of protection	IP65
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	10.29 kg
1m-sound pressure level L _{pA} (ToI.+3dB(A))	65
Plug position	top (default) (2)
Connector size	1

Lubrication and sealing

Gear oil	Mineral oil CLP ISO VG220
Output shaft sealing	Seal longer service life
Oil charge	0.20 l



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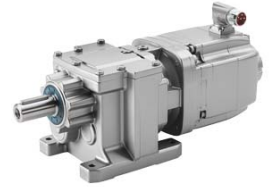


Figure similar

Motor data		Limiting data	
Motor type	Permanent-magnet synchronous motor	Maximum speed (short-time)	6400 rpm
Motor type	Compact	Maximum torque	10.50 Nm
DC-link voltage, max.	510...720V	Motor current short term	7.6 A
Shaft height	48 mm	Optimum operating point	
Cooling	Natural cooling	Optimum speed	3000 rpm
Rated speed	3000 rpm	Optimum power	0.74 kW
Rated torque (100K)	2.35 Nm	Recommended Motor Module	
Rated power	0.74 kW	Rated inverter current	3.0 A
Rated current (100K)	1.85 A	Maximum inverter current	9.0 A
Static torque	2.85 Nm	Maximum torque	10.5 Nm
Static current	2.10 A	Holding brake	
Moment of inertia	3.20 kgcm ²	Holding brake	with holding brake
Efficiency η	89 %	Holding brake version	Permanent-magnet brake
Temperature monitoring	Pt1000 temperature sensor	Power supply voltage	DC 24 V \pm 10 %
Encoder system	Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)	Braking torque M_{1Br} / M_{2Br}	3.00 Nm
		Holding torque M_{4Br}	4.00 Nm
		Opening time	70.0 ms
		Closing time	30.0 ms
		Maximum switching energy per braking action	150.0 J

Info servo geared motor

Outside the standard temperature range of -10 to +40 °C, further selectable options must be observed, in addition to the lubricant selection.

Further, you have to check the suitability of the components and options used for the requested temperature range.

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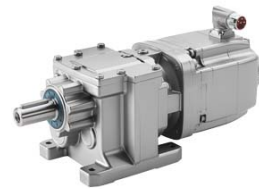


Figure similar

Options

D01	M1 for helical and parallel shaft gearboxes
G23	Seal longer service life
G99	Version with reduced backlash
K06	Mineral oil CLP ISO VG220
N23	Standard holding brake (permanent magnet brake)

Standards

Compliance with standards CE / UL / CSA / EAC / cRUus

CE marking EN 60034