

MLFB-Ordering data 1FG1510-5RG33-2FU1-Z
D11+G23+K11+N23

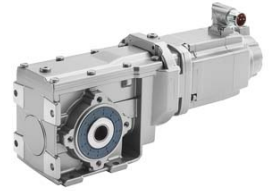


Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Gearbox data

Gear box type	K89	Radial force maximum	18100 N
Gearbox basic type	Bevel geared	Max. permissible radial force with Mmax	18100 N
Gearbox size	89	Moment of inertia	3.90 kgcm ²
Transmission stages	3	Torsional stiffness	164 Nm/'
Transmission (ratio)	55.27	Efficiency	0.94
Gear number relation	27965/506	Mounting position	M1-A
Output moment maximum (short-time)	1610 Nm	Mounting type	Flange version (A type)
max. input speed (briefly)	4500 rpm	Output shaft version	Hollow shaft standard
Output speed short-time	81 rpm	Output shaft dimension	H50 mm
Emergency off output moment (1000 cycles)	2720 Nm	Gearbox flange diameter	300 mm

Figure 2 torque support

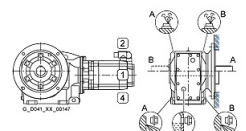
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General tech. specifications

Degree of protection	IP65
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	95.52 kg
1m-sound pressure level L _{pA} (Tol.+3dB(A))	75
Plug position	top (default) (2)
Adapter flange position	top (default) (2)

Lubrication and sealing

Gear oil	Food-grade oil CLP ISO H1 VG460
Output shaft sealing	Seal longer service life
Oil charge	2.10 l



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Data sheet for SIMOTICS S-1FG1

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Figure similar

Motor data		Limiting data	
Motor type	Permanent-magnet synchronous motor	Maximum speed (short-time)	5000 rpm
Motor type	Compact	Maximum torque	108.00 Nm
DC-link voltage, max.	510...720V	Motor current short term	84.0 A
Shaft height	100 mm	Optimum operating point	
Cooling	Natural cooling	Optimum speed	2400 rpm
Rated speed	3000 rpm	Optimum power	4.85 kW
Rated torque (100K)	14.00 Nm	Recommended Motor Module	
Rated power	4.40 kW	Rated inverter current	30.0 A
Rated current (100K)	11.20 A	Maximum inverter current	56.0 A
Static torque	31.50 Nm	Maximum torque	77.0 Nm
Static current	23.50 A	Holding brake	
Moment of inertia	112.00000 kgcm ²	Holding brake	with holding brake
Efficiency η	90 %	Holding brake version	Permanent-magnet brake
Temperature monitoring	Pt1000 temperature sensor	Power supply voltage	DC 24 V $\pm$ 10 %
Connector size	1.5	Braking torque M_{1Br} / M_{2Br}	25.00 Nm
Encoder system	Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)	Holding torque M_{4Br}	43.00 Nm
		Opening time	300.0 ms
		Closing time	70.0 ms
		Maximum switching energy per braking action	3380.0 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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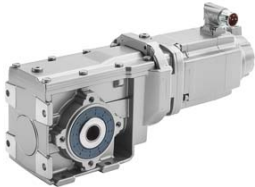


Figure similar

Options		Standards	
D11	M1-A for bevel and worm gearboxes	Compliance with standards	CE / UL / CSA / EAC / cRUus
G23	Seal longer service life		
K11	Food-grade oil CLP ISO H1 VG460	CE marking	EN 60034
N23	Standard holding brake (permanent magnet brake)		