

MLFB-Ordering data 1FG1110-1QG32-2AX1-Z
D01+K07+N23



Figure similar

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Gearbox data			
Gear box type	Z109	Radial force maximum	20200 N
Gearbox basic type	Helical geared	Max. permissible radial force with Mmax	20200 N
Gearbox size	109	Moment of inertia	4.70 kgcm²
Transmission stages	2	Torsional stiffness	167 Nm/°
Transmission (ratio)	51.17	Efficiency	0.95
Gear number relation	5015/98	Mounting position	M1
Output moment maximum (short-time)	3260 Nm	Mounting type	Foot-mounted
max. input speed (briefly)	4500 rpm	Output shaft version	Solid shaft standard
Output speed short-time	88 rpm	Output shaft dimension	V60x120 mm
Emergency off output moment (1000 cycles)	5270 Nm	Gearbox flange diameter	-/-
		Figure 2 torque support	-

General tech. specifications		Lubrication and sealing	
Degree of protection	IP65	Gear oil	Polyglycol oil CLP ISO PG VG220
Color of the housing	Standard painting (Anthracite RAL 7016)		
Specification	CE / UL / CSA / EAC / cRUus	Output shaft sealing	Standard
Net weight	143.45 kg	Oil charge	2.90 l
1m-sound pressure level L _{pA} (Tol.+3dB(A))	75		
Plug position	top (default) (2)		
Adapter flange position	top (default) (2)		

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Data sheet for SIMOTICS S-1FG1

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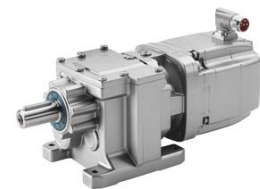


Figure similar

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	46.5 A
Shaft height	100 mm	Optimum operating point	
Cooling	Natural cooling	Optimum speed	2000 rpm
Rated speed	2000 rpm	Optimum power	4.70 kW
Rated torque (100K)	22.50 Nm	Recommended Motor Module	
Rated power	4.71 kW	Rated inverter current	18.0 A
Rated current (100K)	9.50 A	Maximum inverter current	54.0 A
Static torque	31.50 Nm	Maximum torque	108.0 Nm
Static current	12.90 A	Holding brake	
Moment of inertia	112.00000 kgcm ²	Holding brake	with holding brake
Efficiency η	93 %	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_{2Br}	25.00 Nm
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits	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	
D01	M1 for helical and parallel shaft gearboxes	Compliance with standards	CE / UL / CSA / EAC / cRUus
K07	Polyglycol oil CLP ISO PG VG220		
N23	Standard holding brake (permanent magnet brake)		
		CE marking	EN 60034