

SIEMENS

Data sheet for SIMOTICS S-1FG1

MLFB-Ordering data 1FG1406-5QF32-2DG1-Z
D05+K06+N23



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Gearbox data

Gear box type	FD89	Radial force maximum	17400 N
Gearbox basic type	Offset-shaft	Max. permissible radial force with Mmax	17400 N
Gearbox size	89	Moment of inertia	2.50 kgcm ²
Transmission stages	3	Torsional stiffness	163 Nm/'
Transmission (ratio)	118.98	Efficiency	0.93
Gear number relation	131472/1105	Mounting position	M5
Output moment maximum (short-time)	2010 Nm	Mounting type	Torque plate
max. input speed (briefly)	4500 rpm	Output shaft version	Hollow shaft standard
Output speed short-time	38 rpm	Output shaft dimension	H50 mm
Emergency off output moment (1000 cycles)	3140 Nm	Gearbox flange diameter	-/-

Figure 2 torque support

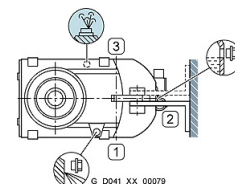
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General tech. specifications

Degree of protection	IP65
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	84.84 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	Mineral oil CLP ISO VG220
Output shaft sealing	Standard
Oil charge	5.10 l



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Motor data		Limiting data	
Motor type	Permanent-magnet synchronous motor	Maximum speed (short-time)	6000 rpm
Motor type	Compact	Maximum torque	50.00 Nm
DC-link voltage, max.	510...720V	Motor current short term	27.5 A
Shaft height	80 mm	Optimum operating point	
Cooling	Natural cooling	Optimum speed	2000 rpm
Rated speed	2000 rpm	Optimum power	2.45 kW
Rated torque (100K)	11.60 Nm	Recommended Motor Module	
Rated power	2.43 kW	Rated inverter current	9.0 A
Rated current (100K)	5.80 A	Maximum inverter current	27.0 A
Static torque	15.50 Nm	Maximum torque	49.3 Nm
Static current	7.30 A	Holding brake	
Moment of inertia	29.50000 kgcm ²	Holding brake	with holding brake
Efficiency η	92 %	Holding brake version	Permanent-magnet brake
Temperature monitoring	Pt1000 temperature sensor	Power supply voltage	DC 24 V $\pm$ 10 %
Connector size	1	Braking torque M_{2Br}	11.00 Nm
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits	Holding torque M_{4Br}	22.00 Nm
		Opening time	200.0 ms
		Closing time	60.0 ms
		Maximum switching energy per braking action	1400.0 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.



Figure similar

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Options		Standards	
D05	M5 for helical and parallel shaft gearboxes	Compliance with standards	CE / UL / CSA / EAC / cRUus
K06	Mineral oil CLP ISO VG220		
N23	Standard holding brake (permanent magnet brake)		
		CE marking	EN 60034