

SIEMENS

Data sheet for SIMOTICS S-1FG1

MLFB-Ordering data 1FG1102-1RD44-4FG1-Z
D01+K06+N23

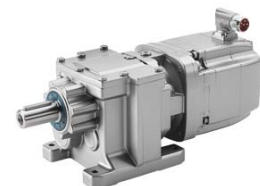


Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Gearbox data

Gear box type Z29

Gearbox basic type Helical geared

Gearbox size 29

Transmission stages 2

Transmission (ratio) 6.92

Gear number relation 90/13

Output moment maximum (short-time) 74 Nm

max. input speed (briefly) 4500 rpm

Output speed short-time 650 rpm

Emergency off output moment (1000 cycles) 127 Nm

Radial force maximum 950 N

Max. permissible radial force with Mmax 950 N

Moment of inertia 0.29 kgcm²

Torsional stiffness 6 Nm/°

Efficiency 0.95

Mounting position M1

Mounting type Flange version (A type)

Output shaft version Solid shaft standard

Output shaft dimension V25x50 mm

Gearbox flange diameter 120 mm

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 12.91 kg

1m-sound pressure level L_{pA} (Tol.+3dB(A)) 65

Plug position top (default) (2)

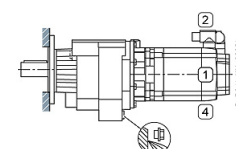
Adapter flange position top (default) (2)

Lubrication and sealing

Gear oil Mineral oil CLP ISO VG220

Output shaft sealing Standard

Oil charge 0.20 l



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Motor data		Limiting data	
Motor type	Permanent-magnet synchronous motor	Maximum speed (short-time)	9000 rpm
Motor type	High Dynamic	Maximum torque	11.30 Nm
DC-link voltage, max.	510...720V	Motor current short term	14.1 A
Shaft height	48 mm	Optimum operating point	
Cooling	Natural cooling	Optimum speed	4500 rpm
Rated speed	4500 rpm	Optimum power	1.18 kW
Rated torque (100K)	2.50 Nm	Recommended Motor Module	
Rated power	1.18 kW	Rated inverter current	9.0 A
Rated current (100K)	3.45 A	Maximum inverter current	27.0 A
Static torque	4.05 Nm	Maximum torque	11.3 Nm
Static current	5.10 A	Holding brake	
Moment of inertia	1.62000 kgcm ²	Holding brake	with holding brake
Efficiency η	91 %	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}	3.00 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}	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		Standards	
D01	M1 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