

SIEMENS

Data sheet for SIMOTICS S-1FG1

MLFB-Ordering data 1FG1305-9RF43-2AS1-Z
D01+H7A+K06+N23



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Gearbox data

Gear box type FZ79

Gearbox basic type Offset-shaft

Gearbox size 79

Transmission stages 2

Transmission (ratio) 33.02

Gear number relation 1387/42

Output moment maximum (short-time) 1010 Nm

max. input speed (briefly) 4500 rpm

Output speed short-time 136 rpm

Emergency off output moment (1000 cycles) 1700 Nm

Radial force maximum 13600 N

Max. permissible radial force with Mmax 13600 N

Moment of inertia 1.50 kgcm²

Torsional stiffness 78 Nm/°

Efficiency 0.95

Mounting position M1

Mounting type Foot-mounted

Output shaft version Hollow shaft inch standard

Output shaft dimension H1.5"

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 54.22 kg

1m-sound pressure level L_{pA} (Tol.+3dB(A)) 75

Plug position top (default) (2)

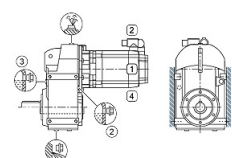
Connector size 1

Lubrication and sealing

Gear oil Mineral oil CLP ISO VG220

Output shaft sealing Standard

Oil charge 2.60 l



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Figure similar

Motor data		Limiting data	
Motor type	Permanent-magnet synchronous motor	Maximum speed (short-time)	6000 rpm
Motor type	Compact	Maximum torque	61.00 Nm
DC-link voltage, max.	510...720V	Motor current short term	41.0 A
Shaft height	80 mm	Optimum operating point	
Cooling	Natural cooling	Optimum speed	2700 rpm
Rated speed	3000 rpm	Optimum power	3.30 kW
Rated torque (100K)	10.00 Nm	Recommended Motor Module	
Rated power	3.14 kW	Rated inverter current	18.0 A
Rated current (100K)	6.60 A	Maximum inverter current	54.0 A
Static torque	18.70 Nm	Maximum torque	61.0 Nm
Static current	11.40 A	Holding brake	
Moment of inertia	35.50000 kgcm²	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 ± 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}	11.00 Nm
		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	
D01	M1 for helical and parallel shaft gearboxes	Compliance with standards	CE / UL / CSA / EAC / cRUus
H7A	Hollow shaft inch standard		
K06	Mineral oil CLP ISO VG220		
N23	Standard holding brake (permanent magnet brake)	CE marking	EN 60034