

SIEMENS

Data sheet for SIMOTICS S-1FG1



Figure similar

MLFB-Ordering data 1FG1305-9RF43-2AS1-Z
D01+H7A+K06+N23+Y84

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Gearbox data

Gear box type	FZ79	Radial force maximum	13600 N
Gearbox basic type	Offset-shaft	Max. permissible radial force with Mmax	13600 N
Gearbox size	79	Moment of inertia	1.50 kgcm ²
Transmission stages	2	Torsional stiffness	78 Nm/°
Transmission (ratio)	33.02	Efficiency	0.95
Gear number relation	1387/42	Mounting position	M1
Output moment maximum (short-time)	1010 Nm	Mounting type	Foot-mounted
max. input speed (briefly)	4500 rpm	Output shaft version	Hollow shaft inch standard
Output speed short-time	136 rpm	Output shaft dimension	H1.5"
Emergency off output moment (1000 cycles)	1700 Nm	Gearbox flange diameter	-/-

Figure 2 torque support

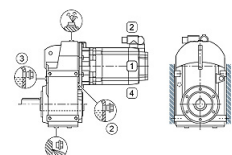
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General tech. specifications

Degree of protection	IP65
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	54.22 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	2.60 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	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 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 AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)	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
Y84			