SIEMENS

Data sheet for SIMOTICS S-1FG1

MLFB-Ordering data 1FG1208-1QF12-2AD1-Z
D01+G23+K06+N23

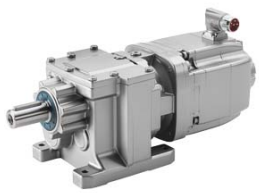


Figure similar

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

Item no. :
Consignment no. :
Project :

Gearbox data

Gear box type	D89
Gearbox basic type	Helical geared
Gearbox size	89
Transmission stages	3
Transmission (ratio)	74.30
Gear number relation	8544/115
Output moment maximum (short-time)	1920 Nm
max. input speed (briefly)	4500 rpm
Output speed short-time	61 rpm
Emergency off output moment (1000 cycles)	2850 Nm

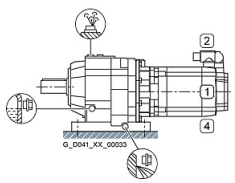
Radial force maximum	18500 N
Max. permissible radial force with Mmax	18500 N
Moment of inertia	3.80 kgcm²
Torsional stiffness	96 Nm/'
Efficiency	0.93
Mounting position	M1
Mounting type	Foot-mounted
Output shaft version	Solid shaft standard
Output shaft dimension	V50x100 mm
Gearbox flange diameter	-/-
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	81.81 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	Seal longer service life
Oil charge	2.00 l



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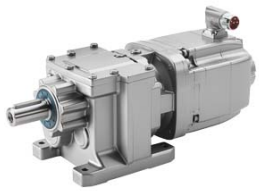

Figure similar

Motor data

Motor type	Permanent-magnet synchronous motor
Motor type	Compact
DC-link voltage, max.	510...720V
Shaft height	80 mm
Cooling	Natural cooling
Rated speed	2000 rpm
Rated torque (100K)	9.10 Nm
Rated power	1.91 kW
Rated current (100K)	4.00 A
Static torque	11.00 Nm
Static current	4.65 A
Moment of inertia	23.50000 kgcm²
Efficiency η	92 %
Temperature monitoring	Pt1000 temperature sensor
Connector size	1
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits

Limiting data

Maximum speed (short-time)	6000 rpm
Maximum torque	37.00 Nm
Motor current short term	17.2 A

Optimum operating point

Optimum speed	2000 rpm
Optimum power	1.90 kW

Recommended Motor Module

Rated inverter current	5.0 A
Maximum inverter current	15.0 A
Maximum torque	33.3 Nm

Holding brake

Holding brake	with holding brake
Holding brake version	Permanent-magnet brake
Power supply voltage	DC 24 V ± 10 %
Braking torque 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.

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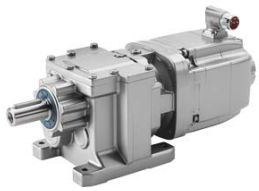

Figure similar

Options

D01	M1 for helical and parallel shaft gearboxes
G23	Seal longer service life
K06	Mineral oil CLP ISO VG220
N23	Standard holding brake (permanent magnet brake)

Standards

Compliance with standards	CE / UL / CSA / EAC / cRUus
CE marking	EN 60034