SIEMENS

Data sheet for SIMOTICS S-1FG1

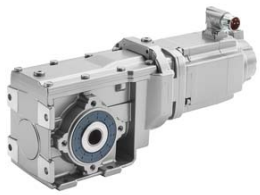


Figure similar

MLFB-Ordering data 1FG1500-9RD23-2DF1-Z
D11+H3A+K07+N23+Q91

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

Item no. :
Consignment no. :
Project :

Gearbox data

Gear box type	B19
Gearbox basic type	Bevel geared
Gearbox size	19
Transmission stages	2
Transmission (ratio)	6.45
Gear number relation	1426/221
Output moment maximum (short-time)	39 Nm
max. input speed (briefly)	4500 rpm
Output speed short-time	698 rpm
Emergency off output moment (1000 cycles)	66 Nm

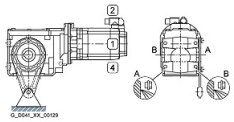
Radial force maximum	1910 N
Max. permissible radial force with Mmax	1910 N
Moment of inertia	0.20 kgcm²
Torsional stiffness	7 Nm/'
Efficiency	0.94
Mounting position	M1-A
Mounting type	Torque plate
Output shaft version	Hollow shaft S disk standard I
Output shaft dimension	HS20 mm
Gearbox flange diameter	-/-
Output shaft bearing	No
Figure 2 torque support	1

General tech. specifications

Degree of protection	IP65
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	10.91 kg
1m-sound pressure level L_{pA} (Tol.+3dB(A))	65
Plug position	right (1)
Adapter flange position	top (default) (2)

Lubrication and sealing

Gear oil	Polyglycol oil CLP ISO PG VG220
Output shaft sealing	Standard
Oil charge	0.15 l



SIEMENS

Data sheet for SIMOTICS S-1FG1

MLFB-Ordering data 1FG1500-9RD23-2DF1-Z
D11+H3A+K07+N23+Q91

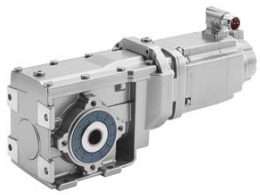


Figure similar

Motor data

Motor type	Permanent-magnet synchronous motor
Motor type	Compact
DC-link voltage, max.	510...720V
Shaft height	48 mm
Cooling	Natural cooling
Rated speed	3000 rpm
Rated torque (100K)	2.35 Nm
Rated power	0.74 kW
Rated current (100K)	1.85 A
Static torque	2.85 Nm
Static current	2.10 A
Moment of inertia	3.20000 kgcm²
Efficiency η	89 %
Temperature monitoring	Pt1000 temperature sensor
Connector size	1
Encoder system	Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)

Limiting data

Maximum speed (short-time)	9000 rpm
Maximum torque	10.50 Nm
Motor current short term	7.6 A

Optimum operating point

Optimum speed	3000 rpm
Optimum power	0.74 kW

Recommended Motor Module

Rated inverter current	3.0 A
Maximum inverter current	9.0 A
Maximum torque	10.5 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}	3.00 Nm
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.

SIEMENS

Data sheet for SIMOTICS S-1FG1

MLFB-Ordering data **1FG1500-9RD23-2DF1-Z**
D11+H3A+K07+N23+Q91

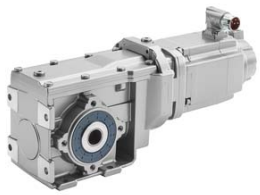


Figure similar

Options

D11	M1-A for bevel and worm gearboxes
H3A	Hollow shaft S disk standard I
K07	Polyglycol oil CLP ISO PG VG220
N23	Standard holding brake (permanent magnet brake)
Q91	Plug position right

Standards

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