

Data sheet for SIMOTICS S-1FG1

Article No. : 1FG1508-1QG12-2AL1-Z
D24+G23+K08+X53

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

Item no. :
Consignment no. :
Project :

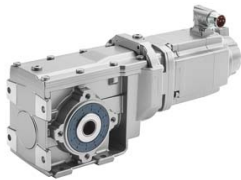
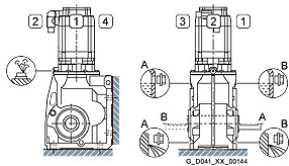


Figure similar

Gearbox data	
Gear box type	K79
Gearbox basic type	Bevel geared B / K
Gearbox size	79
Transmission stages	3
Transmission (ratio)	24.17
Gear number relation	83545/3456
Output moment maximum (short-time)	775 Nm
max. input speed (briefly)	4,500 rpm
Output speed short-time	186 rpm
Emergency off output moment (1000 cycles)	1,300 Nm
Radial force maximum	14,000 N
Max. permissible radial force with Mmax	14,000 N
Moment of inertia	1.60 kgcm ²
Torsional stiffness	66 Nm/°
Efficiency	0.94
Mounting position	M4-B
Mounting type	Foot-mounted
Output shaft version	Solid shaft standard
Output shaft dimension	V40 x 80 mm
Gearbox flange diameter	-/-
Figure 2 torque support	-

General tech. specifications	
Color of the housing	Light gray RAL 7035
Specification	CE / UL / CSA / EAC / cRUus
Net weight	57.16 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	Polyglycol oil CLP ISO PG VG460
Output shaft sealing	Seal longer service life
Oil charge	3.40 l



Motor data	
Motor type	Permanent-magnet synchronous motor
Motor type	Compact
DC-link voltage, max.	510...720V
Shaft height	100 mm
Cooling	Natural cooling
Rated speed	2,000 rpm
Rated torque (100K)	18.00 Nm
Rated power	3.77 kW
Rated current (100K)	8.60 A
Static torque	24.50 Nm
Static current	11.10 A
Moment of inertia	79.00 kgcm ²
Efficiency η	93 %
Temperature monitoring	Pt1000 temperature sensor
Connector size	1.5
Degree of protection	IP65
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits

Limiting data	
Maximum speed (short-time)	5,000 rpm
Maximum torque	80.00 Nm
Motor current short term	40.5 A

Optimum operating point	
Optimum speed	2,000 rpm
Optimum power	3.75 kW



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Recommended Motor Module	
Rated inverter current	18.0 A
Maximum inverter current	54.0 A
Maximum torque	80.0 Nm

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

Options	
D24	M4-B for bevel and worm gearboxes
G23	Seal longer service life
K08	Polyglycol oil CLP ISO PG VG460
X53	Paint finish: Light gray RAL 7035

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.