

Data sheet for SIMOTICS S-1FG1

Article No. : 1FG1505-1QF43-2AR1-Z
D11+G23+K07

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

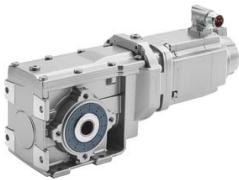


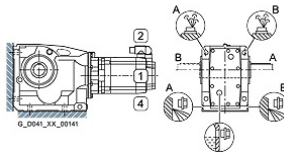
Figure similar

Item no. :
Consignment no. :
Project :

Gearbox data	
Gear box type	K49
Gearbox basic type	Bevel geared B / K
Gearbox size	49
Transmission stages	3
Transmission (ratio)	32.57
Gear number relation	228/7
Output moment maximum (short-time)	425 Nm
max. input speed (briefly)	4,500 rpm
Output speed short-time	138 rpm
Emergency off output moment (1000 cycles)	710 Nm
Radial force maximum	4,350 N
Max. permissible radial force with Mmax	4,310 N
Moment of inertia	1.00 kgcm ²
Torsional stiffness	41 Nm/°
Efficiency	0.93
Mounting position	M1-A
Mounting type	Foot-mounted
Output shaft version	Solid shaft standard
Output shaft dimension	V30 x 60 mm
Gearbox flange diameter	-/-
Figure 2 torque support	-

General tech. specifications	
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	38.38 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 VG220
Output shaft sealing	Seal longer service life
Oil charge	0.55 l



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	3,000 rpm
Rated torque (100K)	10.00 Nm
Rated power	3.14 kW
Rated current (100K)	6.60 A
Static torque	18.70 Nm
Static current	11.40 A
Moment of inertia	32.50 kgcm ²
Efficiency η	92 %
Temperature monitoring	Pt1000 temperature sensor
Connector size	1
Degree of protection	IP65
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits

Limiting data	
Maximum speed (short-time)	6,000 rpm
Maximum torque	61.00 Nm
Motor current short term	41.0 A

Optimum operating point	
Optimum speed	2,700 rpm
Optimum power	3.30 kW



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Recommended Motor Module	
Rated inverter current	18.0 A
Maximum inverter current	54.0 A
Maximum torque	61.0 Nm

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

Options	
D11	M1-A for bevel and worm gearboxes
G23	Seal longer service life
K07	Polyglycol oil CLP ISO PG VG220

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.