

Data sheet for SIMOTICS S-1FG1

Article No. : 1FG1101-1QD22-2AU1-Z
D02+K06

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

Item no. :
Consignment no. :
Project :

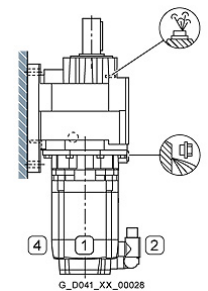


Figure similar

Gearbox data	
Gear box type	Z19
Gearbox basic type	Helical geared
Gearbox size	19
Transmission stages	2
Transmission (ratio)	26.91
Gear number relation	1749/65
Output moment maximum (short-time)	102 Nm
max. input speed (briefly)	4,500 rpm
Output speed short-time	167 rpm
Emergency off output moment (1000 cycles)	170 Nm
Radial force maximum	1,650 N
Max. permissible radial force with Mmax	1,610 N
Moment of inertia	0.04 kgcm ²
Torsional stiffness	4 Nm/°
Efficiency	0.93
Mounting position	M2
Mounting type	Foot-mounted
Output shaft version	Solid shaft standard
Output shaft dimension	V20 x 40 mm
Gearbox flange diameter	-/-
Output shaft bearing	No
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	7.75 kg
1m-sound pressure level L _{pA} (Tol.+3dB(A))	65
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	0.50 l



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	2,000 rpm
Rated torque (100K)	2.50 Nm
Rated power	0.52 kW
Rated current (100K)	1.45 A
Static torque	2.85 Nm
Static current	1.55 A
Moment of inertia	2.90 kgcm ²
Efficiency η	89 %
Temperature monitoring	Pt1000 temperature sensor
Connector size	1
Encoder system	Encoder AS20DQI: absolute encoder single-turn 20 bits

Limiting data	
Maximum speed (short-time)	9,000 rpm
Maximum torque	10.50 Nm
Motor current short term	5.6 A

Optimum operating point	
Optimum speed	2,000 rpm
Optimum power	0.53 kW

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Recommended Motor Module

Rated inverter current	3.0 A
Maximum inverter current	9.0 A
Maximum torque	10.5 Nm

Standards

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

Options

D02	M2 for helical and parallel shaft gearboxes
K06	Mineral oil CLP ISO 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.