SIEMENS

Data sheet for SIMOTICS S-1FG1

Article No. : **1FG1505-9UF53-4HG1-Z**
D14+G24+H3A+K07+Q92

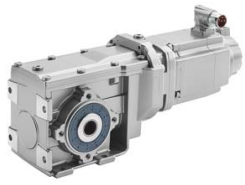


Figure similar

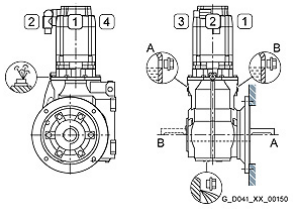
Client order no. :
Order no. :
Offer no. :
Remarks :

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)	10.27
Gear number relation	4960/483
Output moment maximum (short-time)	415 Nm
max. input speed (briefly)	4,500 rpm
Output speed short-time	438 rpm
Emergency off output moment (1000 cycles)	705 Nm
Radial force maximum	2,030 N
Max. permissible radial force with Mmax	2,030 N
Moment of inertia	2.70 kgcm²
Torsional stiffness	37 Nm/'
Efficiency	0.95
Mounting position	M4-A
Mounting type	Housing flange (C type)
Output shaft version	Hollow shaft S disk standard I
Output shaft dimension	HS35 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	41.89 kg
1m-sound pressure level L_{pA} (Tol.+3dB(A))	75
Plug position	bottom (4)
Adapter flange position	top (default) (2)

Lubrication and sealing	
Gear oil	Polyglycol oil CLP ISO PG VG220
Output shaft sealing	Seal increased environmental load
Oil charge	2.10 l



Motor data	
Motor type	Permanent-magnet synchronous motor
Motor type	High Dynamic
DC-link voltage, max.	510...720V
Shaft height	80 mm
Cooling	Natural cooling
Rated speed	3,000 rpm
Rated torque (100K)	6.10 Nm
Rated power	1.92 kW
Rated current (100K)	7.00 A
Static torque	20.00 Nm
Static current	20.50 A
Moment of inertia	22.00 kgcm²
Efficiency η	88 %
Temperature monitoring	Pt1000 temperature sensor
Connector size	1.5
Degree of protection	IP65
Encoder system	Resolver R15DQ: resolver 15 bits (resolution 32768, internal multi-pole)

Limiting data	
Maximum speed (short-time)	6,000 rpm
Maximum torque	65.00 Nm
Motor current short term	84.0 A

Optimum operating point	
Optimum speed	2,000 rpm
Optimum power	3.10 kW

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Recommended Motor Module	
Rated inverter current	30.0 A
Maximum inverter current	56.0 A
Maximum torque	51.0 Nm

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

Options	
D14	M4-A for bevel and worm gearboxes
G24	Seal increased environmental load
H3A	Hollow shaft S disk standard I
K07	Polyglycol oil CLP ISO PG VG220
Q92	Plug position bottom

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.