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Data sheet for SIMOTICS S-1FG1

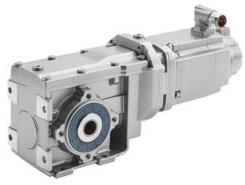


Figure similar

Article No. : 1FG1500-9RD23-2DF1-Z
D11+H3A+K07+N23+Q91

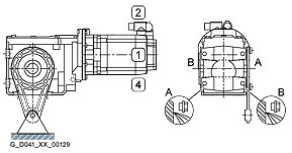
Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Gearbox data	
Gear box type	B19
Gearbox basic type	Bevel geared B / K
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)	4,500 rpm
Output speed short-time	698 rpm
Emergency off output moment (1000 cycles)	66 Nm
Radial force maximum	1,910 N
Max. permissible radial force with Mmax	1,910 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	
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



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	3,000 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
Degree of protection	IP65
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)	9,000 rpm
Maximum torque	10.50 Nm
Motor current short term	7.6 A

Optimum operating point	
Optimum speed	3,000 rpm
Optimum power	0.74 kW

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Article No. : **1FG1500-9RD23-2DF1-Z**
D11+H3A+K07+N23+Q91

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 %
Dynamic braking torque M_{1Br}	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

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

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

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.