

SIEMENS

Data sheet for SIMOTICS S-1FG1



Figure similar

MLFB-Ordering data 1FG1501-5RC23-1DM1

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Gearbox data

Gear box type	B29	Radial force maximum	3650 N
Gearbox basic type	Bevel geared	Max. permissible radial force with Mmax	3610 N
Gearbox size	29	Moment of inertia	0.34 kgcm ²
Transmission stages	2	Torsional stiffness	13 Nm/°
Transmission (ratio)	11.46	Efficiency	0.93
Gear number relation	275/24		
Output moment maximum (short-time)	48 Nm	Mounting type	Torque plate
max. input speed (briefly)	4500 rpm	Output shaft version	Hollow shaft standard
Output speed short-time	393 rpm	Output shaft dimension	H20 mm
Emergency off output moment (1000 cycles)	187 Nm	Gearbox flange diameter	-/-
		Output shaft bearing	No
		Figure 2 torque support	1

General tech. specifications

Degree of protection	IP65
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	8.14 kg
1m-sound pressure level L _{pA} (Tol.+3dB(A))	65
Plug position	top (default) (2)
Connector size	1

Lubrication and sealing

Output shaft sealing Standard

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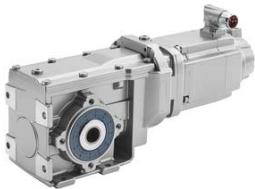


Figure similar

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Motor data		Limiting data	
Motor type	Permanent-magnet synchronous motor	Maximum speed (short-time)	6400 rpm
Motor type	Compact	Maximum torque	4.50 Nm
DC-link voltage, max.	270...300V	Motor current short term	6.5 A
Shaft height	36 mm	Optimum operating point	
Cooling	Natural cooling	Optimum speed	3000 rpm
Rated speed	3000 rpm	Optimum power	0.28 kW
Rated torque (100K)	0.87 Nm	Recommended Motor Module	
Rated power	0.28 kW	Rated inverter current	2.3 A
Rated current (100K)	1.37 A	Maximum inverter current	4.6 A
Static torque	1.01 Nm	Maximum torque	3.0 Nm
Static current	1.50 A		
Moment of inertia	0.65 kgcm²		
Efficiency η	86 %		
Temperature monitoring	Pt1000 temperature sensor		
Encoder system	Encoder AM20DQI: absolute encoder 20 bits (resolution 1048576, encoder-internal 512 S/R) + 12 bits multi-turn (traversing range 4096 revolutions)		

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.

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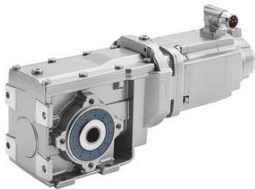


Figure similar

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