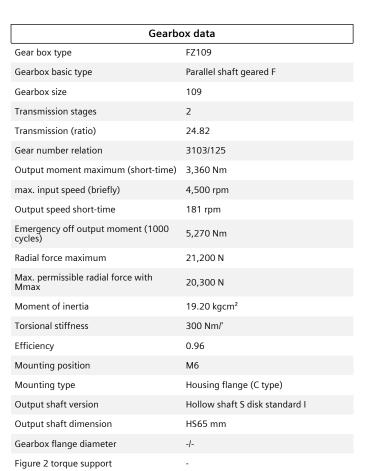


Data sheet for SIMOTICS S-1FG1

Article No.: 1FG1307-9RG53-2HP1-Z
D06+G24+H3A+K07+N16+N24

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



General tech. specifications	
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	153.40 kg
1m-sound pressure level L_{pA} (Tol.+3dB(A))	75
Plug position	top (default) (2)
Adapter flange position	top (default) (2)
. 5 .	

Lubrication and sealing	
Gear oil	Polyglycol oil CLP ISO PG VG220
Output shaft sealing	Seal increased environmental load
Oil charge	9.10



Figure simil

Item no. : Consignment no. : Project :

N	Motor data		
Motor type	Permanent-magnet synchronous motor		
Motor type	Compact		
DC-link voltage, max.	510720V		
Shaft height	100 mm		
Cooling	Natural cooling		
Rated speed	3,000 rpm		
Rated torque (100K)	23.50 Nm		
Rated power	7.38 kW		
Rated current (100K)	16.00 A		
Static torque	45.00 Nm		
Static current	29.00 A		
Moment of inertia	181.60000 kgcm²		
Efficiency η	94 %		
Temperature monitoring	Pt1000 temperature sensor		
Connector size	1.5		
Degree of protection	IP65		
Encoder system	Encoder AM20DQI with nickel-plated M17 round connector: 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)	5,000 rpm		
Maximum torque	150.00 Nm		
Motor current short term	109.0 A		
Optimum operating point			
Optimum speed	2,640 rpm		
Optimum power	7.60 kW		
	Recommended Motor Module		

30.0 A

56.0 A

87.0 Nm

Rated inverter current

Maximum inverter current

Maximum torque



Data sheet for SIMOTICS S-1FG1

Article No.: 1FG1307-9RG53-2HP1-Z
D06+G24+H3A+K07+N16+N24

Holding brake		
Holding brake	reinforced brake	
Holding brake version	Permanent-magnet brake	
Power supply voltage	DC 24 V ± 10 %	
Dynamic braking torque M _{1Br}	35.00 Nm	
Holding torque M _{4Br}	85.00 Nm	
Opening time	250.0 ms	
Closing time	70.0 ms	
Maximum switching energy per braking action	5,300.0 J	
Standards		
Compliance with standards	CE / UL / CSA / EAC / cRUus	
CE marking	EN 60034	
Options		
DOG M6 for bolical and parallel shoft goarhoves		

	Options
D06	M6 for helical and parallel shaft gearboxes
G24	Seal increased environmental load
НЗА	Hollow shaft S disk standard I
K07	Polyglycol oil CLP ISO PG VG220
N16	Nickel plated connectors and paint varnish for increased chemical resistance
N24	Holding brake with increased braking torque (permanent magnet brake)

Info servo geared motor

Outside the standard temperature range of -10 to +40 $^{\circ}\text{C}$, 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. $\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{1$