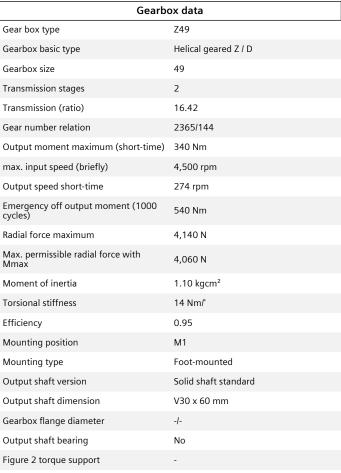


Data sheet for SIMOTICS S-1FG1

Article No.: 1FG1104-1RE33-2AN1-Z
D01+K07+N16+N23+Y84

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



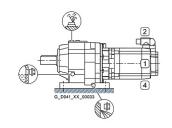
	•6•
General tech. specifications	
Color of the housing	Standard painting (Anthracite RAL 7016)
Specification	CE / UL / CSA / EAC / cRUus
Net weight	29.44 kg
1m-sound pressure level L_{pA} (Tol.+3dB(A))	70
Plug position	top (default) (2)
Adapter flange position	top (default) (2)



Figure simila

Item no. : Consignment no. : Project :

Lubrication and sealing	
Gear oil	Synthetic oil CLP PG VG220
Output shaft sealing	Standard
Oil charge	0.55 l



Motor data	
Motor type	Permanent-magnet synchronous motor
Motor type	Compact
DC-link voltage, max.	510720V
Shaft height	63 mm
Cooling	Natural cooling
Rated speed	3,000 rpm
Rated torque (100K)	6.70 Nm
Rated power	2.10 kW
Rated current (100K)	5.30 A
Static torque	10.10 Nm
Static current	7.40 A
Moment of inertia	15.70000 kgcm²
Efficiency η	91 %
Temperature monitoring	Pt1000 temperature sensor
Connector size	1
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)	7,200 rpm	
Maximum torque	35.00 Nm	
Motor current short term	28.0 A	

Optimum operating point		
Optimum speed	3,000 rpm	
Optimum power	2.10 kW	



Data sheet for SIMOTICS S-1FG1

Maximum switching energy per braking 380.0 J

Article No.: 1FG1104-1RE33-2AN1-Z
D01+K07+N16+N23+Y84

Recommended Motor Module		
Rated inverter current	9.0 A	
Maximum inverter current	27.0 A	
Maximum torque	34.0 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}	8.50 Nm	
Holding torque M _{4Br}	13.00 Nm	
Opening time	100.0 ms	

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

50.0 ms

Options	
D01	M1 for helical and parallel shaft gearboxes
K07	Polyglycol oil CLP ISO PG VG220
N16	Nickel plated connectors and paint varnish for increased chemical resistance
N23	Standard holding brake (permanent magnet brake)
Y84	Additional data on the rating plate and on the packing label :

Info servo geared motor

Closing time

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