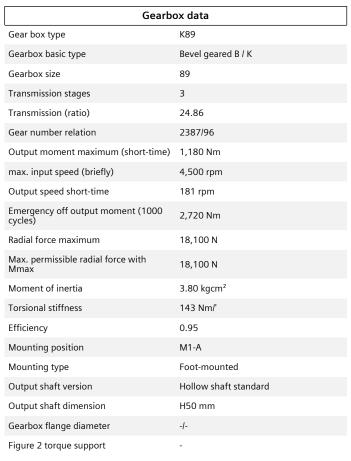


Data sheet for SIMOTICS S-1FG1

Article No.: 1FG1510-5RF33-2AM1-Z

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



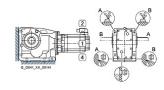
General tech. specifications		
Color of the housing	Standard painting (Anthracite RAL 7016)	
Specification	CE / UL / CSA / EAC / cRUus	
Net weight	72.76 kg	
1m-sound pressure level L_{pA} (Tol.+3dB(A))	75	
Plug position	top (default) (2)	
Adapter flange position	top (default) (2)	



Figure similar

Item no. : Consignment no. : Project :

Lubrication and sealing	
Gear oil	Mineral oil CLP ISO VG220
Output shaft sealing	Seal increased environmental load
Oil charge	1.90



Moto	or data
Motor type	Permanent-magnet synchronous motor
Motor type	Compact
DC-link voltage, max.	510720V
Shaft height	80 mm
Cooling	Natural cooling
Rated speed	3,000 rpm
Rated torque (100K)	9.40 Nm
Rated power	2.95 kW
Rated current (100K)	6.50 A
Static torque	15.50 Nm
Static current	9.90 A
Moment of inertia	28.32280 kgcm²
Efficiency η	93 %
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)	6,000 rpm	
Maximum torque	50.00 Nm	
Motor current short term	37.0 A	

Optimum operating point		
Optimum speed	3,000 rpm	
Optimum power	2.95 kW	



Data sheet for SIMOTICS S-1FG1

Maximum switching energy per braking 2,800.0 J

Article No.: 1FG1510-5RF33-2AM1-Z D11+G24+K06+N32

Recommended Motor Module		
Rated inverter current	9.0 A	
Maximum inverter current	27.0 A	
Maximum torque	40.0 Nm	
Holding brake		
Holding brake	spring-loaded brake (shaft height 80 - 100)	
Holding brake version	Spring-type brake	
Power supply voltage	DC 24 V ± 10 %	
Dynamic braking torque M _{1Br}	13.00 Nm	
Braking torque M _{2Br}	22.00 Nm	
Holding torque M _{4Br}	15.00 Nm	
Opening time	250.0 ms	
Closing time	160.0 ms	

Standards		
Complia	ance with standards	CE / UL / CSA / EAC / cRUus
CE mark	king	EN 60034
Options		
D11	D11 M1-A for bevel and worm gearboxes	
G24	G24 Seal increased environmental load	
K06	K06 Mineral oil CLP ISO VG220	

Info servo geared motor

N32 Spring-loaded brake

action

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. $\frac{1}{2} \left(\frac{1}{2} \right) = \frac{1}{2} \left(\frac{1}{2} \right) \left(\frac{1$