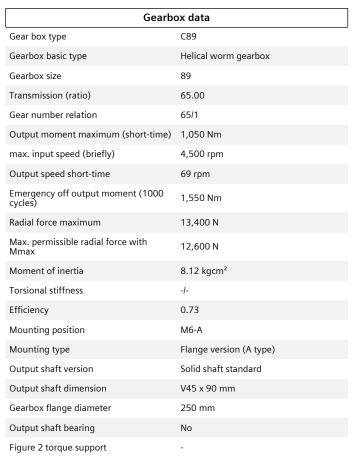


Data sheet for SIMOTICS S-1FG1

Article No.: 1FG1605-1RF43-2FV1-Z D16+G23+G34+G53+K08+Q92+X57

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



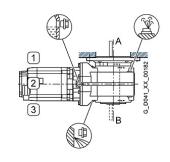
General tech. specifications		
Degree of protection	IP65	
Color of the housing	Light blue RAL 5012	
Specification	CE / UL / CSA / EAC / cRUus	
Net weight	77.74 kg	
1m-sound pressure level L _{pA} (Tol.+3dB(A))	75	
Plug position	bottom (4)	
Adapter flange position	top (default) (2)	



Figure simila

Item no. : Consignment no. : Project :

Lubrication and sealing		
Gear oil	Polyglycol oil CLP ISO PG VG460	
Output shaft sealing	Seal longer service life	
Oil charge	3.04	



Motor 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)	10.00 Nm	
Rated power	3.14 kW	
Rated current (100K)	6.60 A	
Static torque	18.70 Nm	
Static current	11.40 A	
Moment of inertia	32.50 kgcm²	
Efficiency η	92 %	
Temperature monitoring	Pt1000 temperature sensor	
Connector size	1	
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	61.00 Nm	
Motor current short term	41.0 A	
Optimum operating point		
Optimum speed	2,700 rpm	

3.30 kW

Optimum power



Data sheet for SIMOTICS S-1FG1

Article No.: 1FG1605-1RF43-2FV1-Z D16+G23+G34+G53+K08+Q92+X57

Recommended Motor Module				
Rated in	verter current	18.0 A		
Maximum inverter current		54.0 A		
Maximum torque		61.0 Nm		
Standards				
Complia	nce with standards	CE / UL / CSA / EAC / cRUus		
CE mark	ing	EN 60034		
Options				
D16	D16 M6-A for bevel and worm gearboxes			
G23	23 Seal longer service life			
G34	Oil inspection glass			
G53	Oil drain plug magnetic			
K08	Polyglycol oil CLP ISO PG VG460			
Q92	Plug position bottom			

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