

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2210-3AB11-1MB0

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

Basic motor data				
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP65			
Motor type	Compact			
Static torque	30.00 Nm			
Static current	8.5 A			
Maximum torque	90.00 Nm			
Maximum current	31.5 A			
Maximum speed	2,500 rpm			
Rotor moment of inertia	94.8000 kgcm²			
Weight	25.0 kg			

	Rated data				
SINAMICS S120, BLM/SLM 3AC 400V					
	Rated speed	1,500 rpm			
	Rated torque	28.50 Nm			
	Rated current	8.3 A			
	Rated power	4.50 kW			

Encoder system				
Encoder system	Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn			

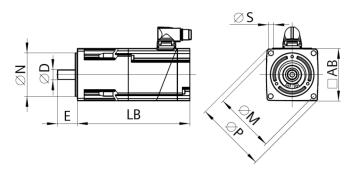
Motor connection				
Connection type	Double cable connection for S120			
Connector size	M23			



Item no. : Consignment no. : Project :

Figure simil						
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Mechanical data				
Design acc. to Code I	IM B5 (IM V1, IM V3)			
Vibration severity grade	Grade A			
Shaft height	100			
Flange size (AB)	192 mm			
Centering ring (N)	180 mm			
Hole circle (M)	215 mm			
Screw-on hole (S)	14.0 mm			
Overall length (LB)	257 mm			
Diameter of shaft (D)	38 mm			
Length of shaft (E)	80 mm			
Length of flange diagonal (P)	244 mm			
Shaft end	Fitted key			
Color of the housing	Standard (Anthracite, similar to RAL 7016)			



Holding brake				
Holding torque	32.00 Nm			
Average dynamic torque	17.00 Nm			
pening time	200 ms			
Closing time	60 ms			
Maximum single switching energy 1)	6,600 J			
Service life, operating energy	2,400,000 J			
Rated current ²⁾	0.9 A			

 $^{^{1)}\}mbox{Up}$ to three consecutive emergency stops and up to 25% of all emergency stops as a Wmax high energy stop possible.

²⁾Typcial value for 20°C ambient temperature. At -15°C the break-induced currents can be increased by up to 30%.