SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2308-3AB10-0SB0

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

Basic motor data				
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP64			
Motor type	High Inertia			
Static torque	18.00 Nm			
Static current	6.2 A			
Maximum torque	51.00 Nm			
Maximum current	20.5 A			
Maximum speed	3,000 rpm			
Rotor moment of inertia	62.8000 kgcm²			
Weight	18.0 kg			

	Rated data				
SINAMICS S120, BLM/SLM 3AC 400V					
	Rated speed	1,500 rpm			
	Rated torque	16.00 Nm			
	Rated current	5.7 A			
	Rated power	2.50 kW			

Encoder system				
Encoder system	Encoder AS22DQC: Absolute encoder single turn 22 bit			

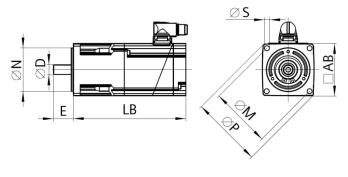
Motor connection				
Connection type	Double cable connection for S120			
Connector size	M23			



Item no. : Consignment no. : Project :

Figure simil						
Figure simil						

Mechanical data				
Design acc. to Code I	IM B5 (IM V1, IM V3)			
Vibration severity grade	Grade A			
Shaft height	80			
Flange size (AB)	155 mm			
Centering ring (N)	130 mm			
Hole circle (M)	165 mm			
Screw-on hole (S)	11.0 mm			
Overall length (LB)	270 mm			
Diameter of shaft (D)	32 mm			
Length of shaft (E)	58 mm			
Length of flange diagonal (P)	200 mm			
Shaft end	Plain shaft			
Color of the housing	Standard (Anthracite, similar to RAL 7016)			



Holding brake				
Holding torque	19.00 Nm			
Average dynamic torque	12.00 Nm			
Opening time	100 ms			
Closing time	40 ms			
Maximum single switching energy 1)	2,000 J			
Service life, operating energy	1,800,000 J			
Rated current ²⁾	0.8 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%.