SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2206-2AF10-1MB0

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

Basic motor data			
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP64		
Motor type	Compact		
Static torque	6.50 Nm		
Static current	5.0 A		
Maximum torque	18.00 Nm		
Maximum current	17.8 A		
Maximum speed	6,000 rpm		
Rotor moment of inertia	9.4000 kgcm²		
Weight	7.9 kg		

	Rated data			
S	SINAMICS S120, BLM/SLM 3AC 400V			
	Rated speed	3,000 rpm		
	Rated torque	5.40 Nm		
	Rated current	4.4 A		
	Rated power	1.71 kW		

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

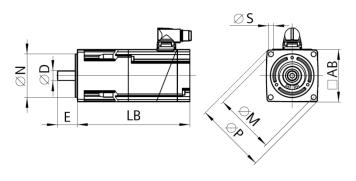
Motor connection				
Connection type	Double cable connection for S120			
Connector size	M23			



Item no. : Consignment no. : Project :

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Mechanical data			
Design acc. to Code I	IM B5 (IM V1, IM V3)		
Vibration severity grade	Grade A		
Shaft height	63		
Flange size (AB)	125 mm		
Centering ring (N)	110 mm		
Hole circle (M)	130 mm		
Screw-on hole (S)	9.0 mm		
Overall length (LB)	205 mm		
Diameter of shaft (D)	24 mm		
Length of shaft (E)	50 mm		
Length of flange diagonal (P)	158 mm		
Shaft end	Fitted key		
Color of the housing	Standard (Anthracite, similar to RAL 7016)		



Holding brake		
Holding torque	13.00 Nm	
Average dynamic torque	6.50 Nm	
Opening time	100 ms	
Closing time	50 ms	
Maximum single switching energy 1)	1,550 J	
Service life, operating energy	774,000 J	
Rated current ²⁾	0.7 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%.