SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2105-6AF11-1MB0

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

Basic motor data				
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP65			
Motor type	High Dynamic			
Static torque	8.00 Nm			
Static current	6.7 A			
Maximum torque	24.00 Nm			
Maximum current	24.0 A			
Maximum speed	6,000 rpm			
Rotor moment of inertia	3.5000 kgcm²			
Weight	8.7 kg			

	Rated data			
S	SINAMICS S120, BLM/SLM 3AC 400V			
	Rated speed	3,000 rpm		
	Rated torque	6.60 Nm		
	Rated current	5.6 A		
	Rated power	2.10 kW		

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

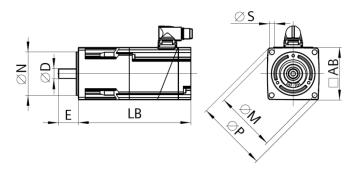
Motor connection				
Connection type	Double cable connection for S120			
Connector size	M17			



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	52			
Flange size (AB)	105 mm			
Centering ring (N)	95 mm			
Hole circle (M)	115 mm			
Screw-on hole (S)	9.0 mm			
Overall length (LB)	242 mm			
Diameter of shaft (D)	19 mm			
Length of shaft (E)	40 mm			
Length of flange diagonal (P)	135 mm			
Shaft end	Fitted key			
Color of the housing	Standard (Anthracite, similar to RAL 7016)			



Holding brake			
Holding torque	8.00 Nm		
Average dynamic torque	5.00 Nm		
Opening time	90 ms		
Closing time	25 ms		
Maximum single switching energy 1)	570 J		
Service life, operating energy	284,000 J		
Rated current ²⁾	0.6 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%.