SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2205-4AF10-0MB0

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	6.00 Nm			
Static current	4.7 A			
Maximum torque	18.00 Nm			
Maximum current	15.1 A			
Maximum speed	6,000 rpm			
Rotor moment of inertia	6.0000 kgcm²			
Weight	6.2 kg			

	Rated data			
S	SINAMICS S120, BLM/SLM 3AC 400V			
	Rated speed	3,000 rpm		
	Rated torque	4.60 Nm		
	Rated current	3.8 A		
	Rated power	1.45 kW		

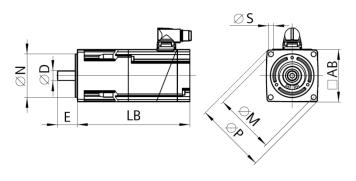
Encoder system		
Encoder system	Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn	

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



Item no. : Consignment no. : Project :

Mechanical data				
Design acc. to Code I	IM B5 (IM V1, IM V3)			
Vibration severity grade	Grade A			
Shaft height	48			
Flange size (AB)	95 mm			
Centering ring (N)	80 mm			
Hole circle (M)	100 mm			
Screw-on hole (S)	6.5 mm			
Overall length (LB)	220 mm			
Diameter of shaft (D)	19 mm			
Length of shaft (E)	40 mm			
Length of flange diagonal (P)	120 mm			
Shaft end	Plain shaft			
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%.