SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2306-4AC11-1MB0

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

Basic motor data			
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP65		
Motor type	High Inertia		
Static torque	12.00 Nm		
Static current	4.5 A		
Maximum torque	38.00 Nm		
Maximum current	17.0 A		
Maximum speed	3,300 rpm		
Rotor moment of inertia	30.8000 kgcm²		
Weight	12.8 kg		

	Rated data			
SINAMICS S120, BLM/SLM 3AC 400V				
	Rated speed	2,000 rpm		
	Rated torque	10.50 Nm		
	Rated current	4.1 A		
	Rated power	2.20 kW		

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

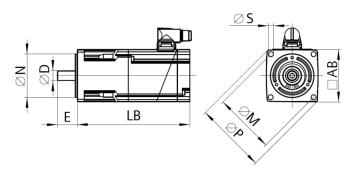
Motor connection			
Connection type	Double cable connection for S120		
Connector size	M23		



Item no. : Consignment no. : Project :

- 1					

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)	281 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%.