SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2104-4AK11-1MB0

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	1.27 Nm			
Static current	2.4 A			
Maximum torque	3.85 Nm			
Maximum current	8.7 A			
Maximum speed	8,000 rpm			
Rotor moment of inertia	0.4300 kgcm²			
Weight	2.9 kg			

	Rated	l data
S	INAMICS S120, BLM/SLM 3AC 400V	
	Rated speed	6,000 rpm
	Rated torque	0.95 Nm
	Rated current	1.9 A
	Rated power	0.60 kW

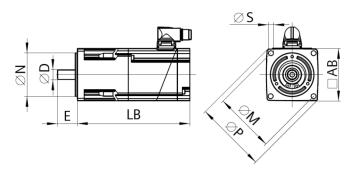
Encoder system

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	40		
Flange size (AB)	80 mm		
Centering ring (N)	70 mm		
Hole circle (M)	90 mm		
Screw-on hole (S)	6.5 mm		
Overall length (LB)	142 mm		
Diameter of shaft (D)	19 mm		
Length of shaft (E)	40 mm		
Length of flange diagonal (P)	105 mm		
Shaft end	Fitted key		
Color of the housing	Standard (Anthracite, similar to RAL 7016)		



Holding brake		
Holding torque	3.30 Nm	
Average dynamic torque	3.30 Nm	
Opening time	110 ms	
Closing time	40 ms	
Maximum single switching energy 1)	270 J	
Service life, operating energy	35,000 J	
Rated current ²⁾	0.5 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%.