SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No. :

1FK2204-6AF10-1MB0



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

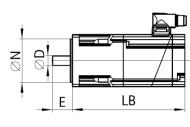
Basic motor data		
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP64	
Motor type	Compact	
Static torque	3.20 Nm	
Static current	3.0 A	
Maximum torque	9.50 Nm	
Maximum current	9.9 A	
Maximum speed	7,600 rpm	
Rotor moment of inertia	1.6900 kgcm²	
Weight	4.3 kg	
Rated data		

SINAMICS S120, BLM/SLM 3AC 40	0V	
Rated speed	3,000 rpm	
Rated torque	3.20 Nm	
Rated current	3.0 A	
Rated power	1.00 kW	
Encoder cyctom		
Encoder system		

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)	188 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)

Mechanical data

IM B5 (IM V1, IM V3)

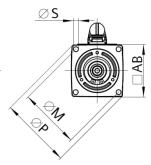


Item no. :

Project :

Consignment no. :

Design acc. to Code I



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⁾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%.

Motor connection	
Connection type	Double cable connection for S120

Encoder system

M17

Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn