SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No. :

1FK2205-4AF10-1MB0



Figure similar

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

Encoder system

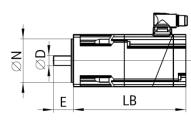
Basic motor data		
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP64	
Motor type	Compact	
Static torque	6.00 Nm	
Static current	4.7 A	
Maximum torque	18.00 Nm	
Maximum current	15.1 A	
Maximum speed	6,000 rpm	
Rotor moment of inertia	6.0000 kgcm²	
Weight	6.2 kg	
Rated data		

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		

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	Fitted key
Color of the housing	Standard (Anthracite, similar to RAL 7016)

Mechanical data

IM B5 (IM V1, IM V3)

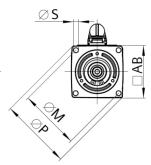


Item no. :

Project :

Consignment no. :

Design acc. to Code I



Holding brake		
Holding torque	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⁾Up to three consecutive emergency stops and up to 25% of all emergency stops as a Wmax high energy stop possible.

²¹Typcial 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	
Connector size	M17	

Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn