SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No. :

1FK2105-6AF11-0MB0



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

Encoder system

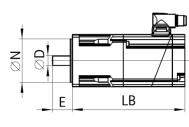
Basic motor data		
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP65	
Motor type	High Dynamic	
Static torque	8.00 Nm	
Static current	6.7 A	
Maximum torque	24.00 Nm	
Maximum current	24.0 A	
Maximum speed	6,000 rpm	
Rotor moment of inertia	3.5000 kgcm²	
Weight	8.7 kg	
Rated data		

SINAMICS S120, BLM/SLM 3AC 4)0V	
Rated speed	3,000 rpm	
Rated torque	6.60 Nm	
Rated current	5.6 A	
Rated power	2.10 kW	
Encoder system		

Vibration severity grade	Grade A
Shaft height	52
Flange size (AB)	105 mm
Centering ring (N)	95 mm
Hole circle (M)	115 mm
Screw-on hole (S)	9.0 mm
Overall length (LB)	242 mm
Diameter of shaft (D)	19 mm
Length of shaft (E)	40 mm
Length of flange diagonal (P)	135 mm
Shaft end	Plain shaft
Color of the housing	Standard (Anthracite, similar to RAL 7016)

Mechanical data

IM B5 (IM V1, IM V3)

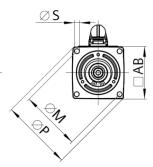


Item no. :

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.

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
Connector size	M17

Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn