SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No. :

1FK2308-4AB11-1MB0



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	22.00 Nm	
Static current	7.1 A	
Maximum torque	66.00 Nm	
Maximum current	25.0 A	
Maximum speed	3,000 rpm	
Rotor moment of inertia	74.4000 kgcm²	
Weight	20.5 kg	
Rated data		

Rated data

SINAMICS S120, B	LM/SLM 3AC 400V	
Rated speed		1,500 rpm
Rated torque		18.60 Nm
Rated current		6.4 A
Rated power		2.90 kW
Encoder system		

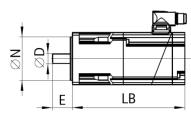
Encoder system

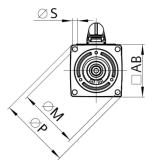
Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn

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

Item no. : Consignment no. : Project :

Mechanical data		
Design acc. to Code I	IM B5 (IM V1, IM V3)	
Vibration severity grade	Grade A	
Shaft height	80	
Flange size (AB)	155 mm	
Centering ring (N)	130 mm	
Hole circle (M)	165 mm	
Screw-on hole (S)	11.0 mm	
Overall length (LB)	290 mm	
Diameter of shaft (D)	32 mm	
Length of shaft (E)	58 mm	
Length of flange diagonal (P)	200 mm	
Shaft end	Fitted key	
Color of the housing	Standard (Anthracite, similar to RAL 7016)	





Holding brake		
Holding torque	32.00 Nm	
Average dynamic torque	17.00 Nm	
Opening time	200 ms	
Closing time	60 ms	
Maximum single switching energy 1)	4,800 J	
Service life, operating energy	2,400,000 J	
Rated current ²⁾	0.9 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%.