

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2106-6AF10-0MB0

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

Basic motor data			
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP64		
Motor type	High Dynamic		
Static torque	16.00 Nm		
Static current	14.3 A		
Maximum torque	45.50 Nm		
Maximum current	49.0 A		
Maximum speed	6,000 rpm		
Rotor moment of inertia	10.4000 kgcm²		
Weight	13.4 ka		

Rated data			
SINAMICS S120, BLM/SLM 3AC 400V			
	Rated speed	3,000 rpm	
	Rated torque	10.60 Nm	
	Rated current	9.7 A	
	Rated power	3.30 kW	

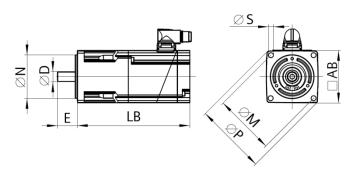
Encoder system		
Encoder system	Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn	

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	63			
Flange size (AB)	125 mm			
Centering ring (N)	110 mm			
Hole circle (M)	130 mm			
Screw-on hole (S)	9.0 mm			
Overall length (LB)	283 mm			
Diameter of shaft (D)	24 mm			
Length of shaft (E)	50 mm			
Length of flange diagonal (P)	158 mm			
Shaft end	Plain shaft			
Color of the housing	Standard (Anthracite, similar to RAL 7016)			



Holding brake		
Holding torque	16.00 Nm	
Average dynamic torque	9.00 Nm	
Opening time	100 ms	
Closing time	50 ms	
Maximum single switching energy 1)	1,065 J	
Service life, operating energy	774,000 J	
Rated current ²⁾	0.7 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%.