SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2102-1AG10-0MA0

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	0.32 Nm	
Static current	0.8 A	
Maximum torque	1.11 Nm	
Maximum current	3.0 A	
Maximum speed	8,000 rpm	
Rotor moment of inertia	0.0400 kgcm²	
Weight	0.9 kg	

	Rated data		
5	NAMICS S210, 1AC 230V		
	Rated speed	3,000 rpm	
	Rated torque	0.32 Nm	
	Rated current	0.8 A	
	Rated power	0.10 kW	

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

Motor connection		
Connection type	OCC for S210	
Connector size	M12	



Item no. : Consignment no. : Project :

Overall length (LB)

Length of shaft (E)

Diameter of shaft (D)

Length of flange diagonal (P)

Mechanical data			
Design acc. to Code I	IM B5 (IM V1, IM V3)		
Vibration severity grade	Grade A		
Shaft height	20		
Flange size (AB)	40 mm		
Centering ring (N)	30 mm		
Hole circle (M)	46 mm		
Screw-on hole (S)	4.5 mm		

137 mm

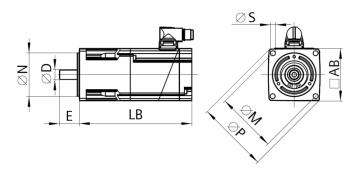
8 mm

25 mm

54 mm

Shaft end Plain shaft

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



Holding brake		
Holding torque	0.32 Nm	
Average dynamic torque	0.32 Nm	
Opening time	25 ms	
Closing time	20 ms	
Maximum single switching energy 1)	7.4 J	
Service life, operating energy	1,750 J	
Holding current ²⁾	0.1 A	
Break-induced current for 500 ms ²⁾	0.6 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%.