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

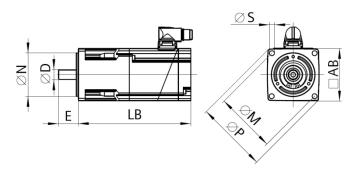
Encoder system				
Encoder system	Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn			

	Motor connection
Connection type	OCC for S210
Connector size	M12



Item no. : Consignment no. : Project :

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				
Overall length (LB)	137 mm				
Diameter of shaft (D)	8 mm				
Length of shaft (E)	25 mm				
Length of flange diagonal (P)	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.

 $^{^{2)}} Typcial value for 20 ^{\circ} C$ ambient temperature. At -15 $^{\circ} C$ the break-induced currents can be increased by up to 30%.