SIEMENS

Data sheet for SIMOTICS S-1FK2

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

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	0.16 Nm		
Static current	0.8 A		
Maximum torque	0.56 Nm		
Maximum current	3.1 A		
Maximum speed	8,000 rpm		
Rotor moment of inertia	0.0285 kgcm²		
Weight	0.7 kg		

	Rated data		
SINAMICS S210, 1AC 230V			
	Rated speed	3,000 rpm	
	Rated torque	0.16 Nm	
	Rated current	0.8 A	
	Rated power	0.05 kW	

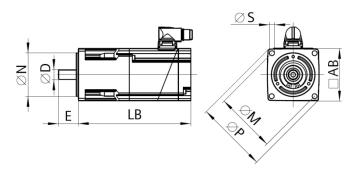
Encoder system		
Encoder system	Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn	

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)	121 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%.