SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2206-2AF11-1SA0

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

Basic motor data		
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP65	
Motor type	Compact	
Static torque	6.50 Nm	
Static current	5.0 A	
Maximum torque	18.00 Nm	
Maximum current	17.8 A	
Maximum speed	6,000 rpm	
Rotor moment of inertia	9.4000 kgcm²	
Weight	7.9 kg	

Rated data		
SINAMICS S210, 3AC 400V		
Rated speed	3,000 rpm	
Rated torque	5.40 Nm	
Rated current	4.4 A	
Rated power	1.71 kW	

Encoder system		
Encoder system	Encoder AS22DQC: Absolute encoder single turn 22 bit	

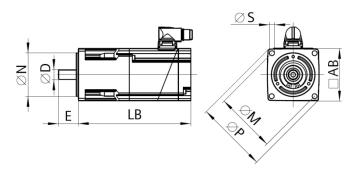
Motor connection			
	Connection type	OCC for S210	
	Connector size	M23	



Item no. : Consignment no. : Project :

F	igu	ıre	sir	ni

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)	205 mm	
Diameter of shaft (D)	24 mm	
Length of shaft (E)	50 mm	
Length of flange diagonal (P)	158 mm	
Shaft end	Fitted key	
Color of the housing	Standard (Anthracite, similar to RAL 7016)	



Holding brake	
Holding torque	13.00 Nm
Average dynamic torque	6.50 Nm
Opening time	70 ms
Closing time	35 ms
Maximum single switching energy 1)	1,550 J
Service life, operating energy	774,000 J
Holding current ²⁾	0.35 A
Break-induced current for 500 ms ²⁾	1.1 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%.