

Data sheet for SIMOTICS S-1FK2

1FK2210-3AB11-0MA0 Article No.:

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	30.00 Nm	
Static current	8.5 A	
Maximum torque	90.00 Nm	
Maximum current	31.5 A	
Maximum speed	2,500 rpm	
Rotor moment of inertia	94.8000 kgcm²	
Weight	25.0 kg	

	Rated data			
S	SINAMICS S210, 3AC 400V			
	Rated speed	1,500 rpm		
	Rated torque	28.50 Nm		
	Rated current	8.3 A		
	Rated power	4.50 kW		

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

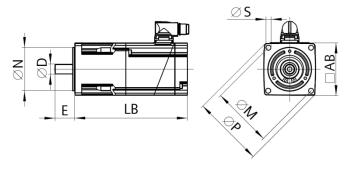
Motor connection		
Connection type	OCC for S210	
Connector size	M23	



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	100	
Flange size (AB)	192 mm	
Centering ring (N)	180 mm	
Hole circle (M)	215 mm	
Screw-on hole (S)	14.0 mm	
Overall length (LB)	257 mm	
Diameter of shaft (D)	38 mm	
Length of shaft (E)	80 mm	
Length of flange diagonal (P)	244 mm	
Shaft end	Plain shaft	
Color of the housing	Standard (Anthracite, similar to RAL 7016)	



Holding brake		
Holding torque	32.00 Nm	
Average dynamic torque	17.00 Nm	
Opening time	120 ms	
Closing time	40 ms	
Maximum single switching energy 1)	6,600 J	
Service life, operating energy	2,400,000 J	
Holding current ²⁾	0.5 A	
Break-induced current for 500 ms ²⁾	1.4 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%.