SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2103-2AG11-0MA0

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

Basic motor data		
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP65	
Motor type	High Dynamic	
Static torque	0.64 Nm	
Static current	1.4 A	
Maximum torque	1.95 Nm	
Maximum current	4.8 A	
Maximum speed	8,000 rpm	
Rotor moment of inertia	0.1120 kgcm²	
Weight	1.5 kg	

	Rated	Rated data	
5	INAMICS S210, 1AC 230V	AMICS S210, 1AC 230V	
	Rated speed	3,000 rpm	
	Rated torque	0.64 Nm	
	Rated current	1.4 A	
	Rated power	0.20 kW	

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

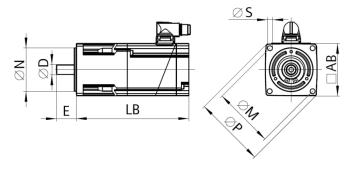
Motor connection	
Connection type	OCC for S210
Connector size	M12



Item no. : Consignment no. : Project :

Figure sim	

Mechanical data		
Design acc. to Code I	IM B5 (IM V1, IM V3)	
Vibration severity grade	Grade A	
Shaft height	30	
Flange size (AB)	60 mm	
Centering ring (N)	50 mm	
Hole circle (M)	70 mm	
Screw-on hole (S)	5.5 mm	
Overall length (LB)	131 mm	
Diameter of shaft (D)	14 mm	
Length of shaft (E)	30 mm	
Length of flange diagonal (P)	81 mm	
Shaft end	Plain shaft	
Color of the housing	Standard (Anthracite, similar to RAL 7016)	



Holding brake	
Holding torque	1.30 Nm
Average dynamic torque	1.30 Nm
Opening time	40 ms
Closing time	30 ms
Maximum single switching energy 1)	62 J
Service life, operating energy	17,500 J
Holding current ²⁾	0.15 A
Break-induced current for 500 ms ²⁾	0.8 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%.