SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No.: 1FK2105-4AF11-0MA0

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	5.00 Nm			
Static current	4.7 A			
Maximum torque	15.00 Nm			
Maximum current	18.0 A			
Maximum speed	6,000 rpm			
Rotor moment of inertia	2.5500 kgcm²			
Weight	6.6 kg			

	Rated	Rated data				
5	INAMICS S210, 3AC 400V					
	Rated speed	3,000 rpm				
	Rated torque	4.60 Nm				
	Rated current	4.4 A				
	Rated power	1.45 kW				

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

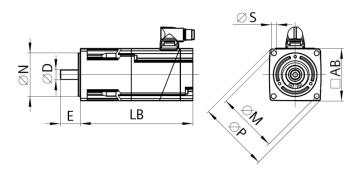
Motor connection				
Connection type	OCC for S210			
Connector size	M17			



Item no. : Consignment no. : Project :

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Mechanical data						
Design acc. to Code I	IM B5 (IM V1, IM V3)					
Vibration severity grade	Grade A					
Shaft height	52					
Flange size (AB)	105 mm					
Centering ring (N)	95 mm					
Hole circle (M)	115 mm					
Screw-on hole (S)	9.0 mm					
Overall length (LB)	200 mm					
Diameter of shaft (D)	19 mm					
Length of shaft (E)	40 mm					
Length of flange diagonal (P)	135 mm					
Shaft end	Plain shaft					
Color of the housing	Standard (Anthracite, similar to RAL 7016)					



Holding brake				
Holding torque	8.00 Nm			
Average dynamic torque	5.00 Nm			
Opening time	35 ms			
Closing time	20 ms			
Maximum single switching energy 1)	570 J			
Service life, operating energy	284,000 J			
Holding current ²⁾	0.3 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%.