SIEMENS

Data sheet for SIMOTICS S-1FK2

MLFB-Ordering data

1FK2105-4AF10-1SA0



Figure similar

Client order no. : Order no. : Offer no. : Remarks : ltem no. : Consignment no. : Project :

Basic motor data		Mechanical data	
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP64	Design acc. to Code I	IM B5 (IM V1, IM V3)
		Vibration severity grade	Grade A
Motor type	High Dynamic	Shaft height	52
Static torque	5.00 Nm	Flange size (AB)	105 mm
Static current	4.7 A	Centering ring (N)	95 mm
Maximum torque	15.00 Nm	Hole circle (M)	115 mm
Maximum current	18.0 A	Screw-on hole (S)	9.0 mm
Maximum speed	6000 rpm	Overall length (LB)	202 mm
Rotor moment of inertia	·	Diameter of shaft (D)	19 mm
	2.550 kgcm²	Length of shaft (E)	40 mm
Weight	6.6 kg	Length of flange diagonal (P)	135 mm
Rated data		Shaft extension	Fitted key

SINAMICS S210, 3AC 400V

Rated speed	3000 rpm	
Rated torque	4.60 Nm	
Rated current	4.4 A	
Rated power	1.45 kW	

Encoder system

Encoder system

Encoder AS22DQC: Absolute encoder single turn 22 bit

Motor connection		
Connection type	OCC for S210	
Connector size	M17	

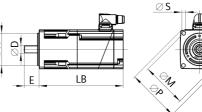


Figure similar





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Holding brake				
Holding torque	8.00 Nm			
Opening time	35 ms			
Closing time	15 ms			
Maximum single switching energy ¹⁾	570.0 J			
Service life, operating energy	284000 J			
Holding current	0.3 A			
Break-induced current for 500 ms ²⁾	1.1 A			

¹⁾ 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°C ambient temperature. At -15°C the break-induced currents can be increased by up to 30%.

Figure similar