

Data sheet for SIMOTICS S-1FK2

MLFB-Ordering data 1FK2105-4AF11-0SA0



Figure similar

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

Shaft extension

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	6000 rpm	
Rotor moment of inertia	2.550 kgcm²	
Weight	6.6 kg	

Rated data

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	

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)	202 mm	
Diameter of shaft (D)	19 mm	
Length of shaft (E)	40 mm	
Length of flange diagonal (P)	135 mm	

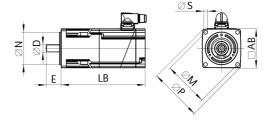


Figure similar

Plain shaft





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Figure similar

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%.