

Data sheet for SIMOTICS S-1FK2

MLFB-Ordering data 1FK2102-1AG11-0SA0



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	0.32 Nm	
Static current	0.8 A	
Maximum torque	1.11 Nm	
Maximum current	3.0 A	
Maximum speed	8000 rpm	
Rotor moment of inertia	0.040 kgcm²	
Weight	0.9 kg	

Rated data

SINAMICS S210, 1AC 230V

Rated speed	3000 rpm
Rated torque	0.32 Nm
Rated current	0.8 A
Rated power	0.10 kW

Encoder system

Encoder system Encoder AS22DQC: Absolute encoder single turn 22 bit

Motor connection		
Connection type	OCC for S210	
Connector size	M12	

	Mechanical data			
	Design acc. to Code I	IM B5 (IM V1, IM V3)		
	Vibration severity grade	Grade A		
	Shaft height	20		
	Flange size (AB)	40 mm		
	Centering ring (N)	30 mm		
	Hole circle (M)	46 mm		
	Screw-on hole (S)	4.5 mm		
	Overall length (LB)	137 mm		
	Diameter of shaft (D)	8 mm		
	Length of shaft (E)	25 mm		
	Length of flange diagonal (P)	54 mm		

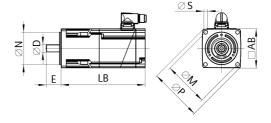


Figure similar

Plain shaft





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Figure similar

Holding brake			
Holding torque	0.32 Nm		
Opening time	25 ms		
Closing time	8 ms		
Maximum single switching energy 1)	7.4 J		
Service life, operating energy	1750 J		
Holding current	0.1 A		
Break-induced current for 500 ms ²⁾	0.6 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%.