

Data sheet for SIMOTICS S-1FK2

MLFB-Ordering data 1FK2210-3AB11-0MA0



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	Compact			
Static torque	30.00 Nm			
Static current	8.5 A			
Maximum torque	90.00 Nm			
Maximum current	31.5 A			
Maximum speed	2500 rpm			
Rotor moment of inertia	94.800 kgcm²			
Weight	25.0 kg			
Rated data				

SINAMICS S210, 3AC 400V

Rated speed	1500 rpm
Rated torque	28.50 Nm
Rated current	8.3 A
2	4.50.174
Rated power	4.50 kW

Encoder system

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

Motor connection		
Connection type	OCC for S210	
Connector size	M23	

Mechanical data			
Design acc. to Code I	IM B5 (IM V1, IM V3)		
Vibration severity grade	Grade A		
Shaft height	100		
Flange size (AB)	192 mm		
Centering ring (N)	180 mm		
Hole circle (M)	215 mm		
Screw-on hole (S)	14.0 mm		
Overall length (LB)	257 mm		
Diameter of shaft (D)	38 mm		
Length of shaft (E)	80 mm		
Length of flange diagonal (P)	244 mm		

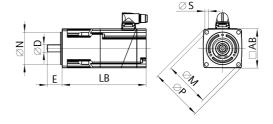


Figure similar

Plain shaft





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Figure similar

Holding brake			
Holding torque	32.00 Nm		
Opening time	120 ms		
Closing time	35 ms		
Maximum single switching energy ¹⁾	6500.0 J		
Service life, operating energy	2400000 J		
Holding current	0.5 A		
Break-induced current for 500 ms ²⁾	1.4 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%.