

# **Data sheet for SIMOTICS S-1FK2**

## MLFB-Ordering data 1FK2210-4AB10-0MA0



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, IP64	
Motor type	Compact	
Static torque	40.00 Nm	
Static current	11.8 A	
Maximum torque	120.00 Nm	
Maximum current	43.5 A	
Maximum speed	2500 rpm	
Rotor moment of inertia	133.000 kgcm²	
Weight	31.0 kg	

Rated data	

### SINAMICS S210, 3AC 400V

Rated speed	1500 rpm
Rated torque	34.50 Nm
Rated current	10.4 A
Rated power	5.40 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)	282 mm	
Diameter of shaft (D)	38 mm	
Length of shaft (E)	80 mm	
Length of flange diagonal (P)	244 mm	

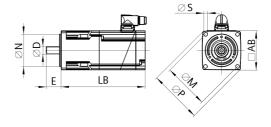


Figure similar

Plain shaft





#### **MLFB-Ordering data**

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Figure similar

Holding brake		
Holding torque	55.00 Nm	
Opening time	130 ms	
Closing time	35 ms	
Maximum single switching energy <sup>1)</sup>	8700.0 J	
Service life, operating energy	3800000 J	
Holding current	0.5 A	
Break-induced current for 500 ms <sup>2)</sup>	1.5 A	

 $<sup>^{1)}</sup>$  Up to three consecutive emergency stops and up to 25% of all emergency stops as a Wmax high energy stop possible.

 $<sup>^{2)}</sup>$  Typcial value for 20°C ambient temperature. At -15°C the break-induced currents can be increased by up to 30%.