

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

MLFB-Ordering data 1FK2208-3AC11-0MA0



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	18.00 Nm	
Static current	8.4 A	
Maximum torque	51.00 Nm	
Maximum current	29.5 A	
Maximum speed	4100 rpm	
Rotor moment of inertia	33.000 kgcm²	
Weight	14.6 kg	

Rated data

#### SINAMICS S210, 3AC 400V

Rated speed	2000 rpm
Rated torque	14.50 Nm
Rated current	7.0 A
Rated power	3.05 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	80	
Flange size (AB)	155 mm	
Centering ring (N)	130 mm	
Hole circle (M)	165 mm	
Screw-on hole (S)	11.0 mm	
Overall length (LB)	236 mm	
Diameter of shaft (D)	32 mm	
Length of shaft (E)	58 mm	
Length of flange diagonal (P)	200 mm	

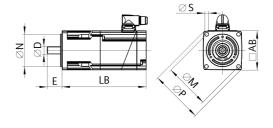


Figure similar

Plain shaft





## **MLFB-Ordering data**

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Figure similar

Holding brake		
Holding torque	19.00 Nm	
Opening time	70 ms	
Closing time	20 ms	
Maximum single switching energy <sup>1)</sup>	2000.0 J	
Service life, operating energy	1800000 J	
Holding current	0.4 A	
Break-induced current for 500 ms <sup>2)</sup>	1.2 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%.