

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

MLFB-Ordering data 1FK2106-4AF11-0MA0



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	High Dynamic	
Static torque	12.00 Nm	
Static current	10.7 A	
Maximum torque	32.50 Nm	
Maximum current	40.0 A	
Maximum speed	6000 rpm	
Rotor moment of inertia	7.600 kgcm²	
Weight	10.6 kg	

Ra	ted data

### SINAMICS S210, 3AC 400V

Rated speed	3000 rpm
Rated torque	8.60 Nm
Rated current	8.1 A
Rated power	2.70 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	63	
Flange size (AB)	125 mm	
Centering ring (N)	110 mm	
Hole circle (M)	130 mm	
Screw-on hole (S)	9.0 mm	
Overall length (LB)	244 mm	
Diameter of shaft (D)	24 mm	
Length of shaft (E)	50 mm	
Length of flange diagonal (P)	158 mm	

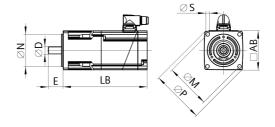


Figure similar

Plain shaft





## **MLFB-Ordering data**

#### 1FK2106-4AF11-0MA0

Figure similar

Holding brake		
Holding torque	13.00 Nm	
Opening time	70 ms	
Closing time	30 ms	
Maximum single switching energy 1)	1550.0 J	
Service life, operating energy	774000 J	
Holding current	0.35 A	
Break-induced current for 500 ms <sup>2)</sup>	1.1 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%.