# **SIEMENS**

# Data sheet for SIMOTICS S-1FK2

## **MLFB-Ordering data**

# 1FK2105-4AF10-1SA0



Figure similar

Client order no. : Order no. : Offer no. : Remarks : ltem no. : Consignment no. : Project :

Basic motor data		Mechanical data	
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP64	Design acc. to Code I	IM B5 (IM V1, IM V3)
		Vibration severity grade	Grade A
Motor type	High Dynamic	Shaft height	52
Static torque	5.00 Nm	Flange size (AB)	105 mm
Static current	4.7 A	Centering ring (N)	95 mm
Maximum torque	15.00 Nm	Hole circle (M)	115 mm
Maximum current	18.0 A	Screw-on hole (S)	9.0 mm
Maximum speed	6000 rpm	Overall length (LB)	202 mm
Rotor moment of inertia	·	Diameter of shaft (D)	19 mm
	2.550 kgcm²	Length of shaft (E)	40 mm
Weight	6.6 kg	Length of flange diagonal (P)	135 mm
Rated data		Shaft extension	Fitted key

#### SINAMICS S210, 3AC 400V

Rated speed	3000 rpm	
Rated torque	4.60 Nm	
Rated current	4.4 A	
Rated power	1.45 kW	

# **Encoder system**

Encoder system

Encoder AS22DQC: Absolute encoder single turn 22 bit

Motor connection		
Connection type	OCC for S210	
Connector size	M17	

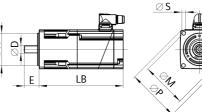


Figure similar





## **MLFB-Ordering data**

# 1FK2105-4AF10-1SA0

Holding brake				
Holding torque	8.00 Nm			
Opening time	35 ms			
Closing time	15 ms			
Maximum single switching energy <sup>1)</sup>	570.0 J			
Service life, operating energy	284000 J			
Holding current	0.3 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%.

Figure similar