

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

Article No.: 1FK2208-3AC11-1SA0

Client order no. : Order no. : Offer no. : Remarks :

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	4,100 rpm			
Rotor moment of inertia	32.6000 kgcm²			
Weight	14.6 kg			

Rated data				
S	SINAMICS S210, 3AC 400V			
	Rated speed	2,000 rpm		
	Rated torque	14.50 Nm		
	Rated current	7.0 A		
	Rated power	3.05 kW		

Encoder system				
Encoder system	Encoder AS22DQC: Absolute encoder single turn 22 bit			

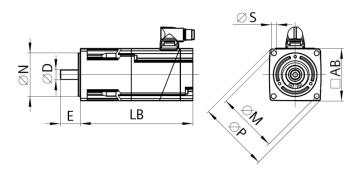
Motor connection			
C	Connection type	OCC for S210	
(	onnector size	M23	



Item no. : Consignment no. : Project :

F	ig		S	Υ	1	

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			
Shaft end	Fitted key			
Color of the housing	Standard (Anthracite, similar to RAL 7016)			



Holding brake		
Holding torque	19.00 Nm	
Average dynamic torque	12.00 Nm	
Opening time	70 ms	
Closing time	35 ms	
Maximum single switching energy 1)	2,000 J	
Service life, operating energy	1,800,000 J	
Holding current <sup>2)</sup>	0.4 A	
Break-induced current for 500 ms <sup>2)</sup>	1.2 A	

 $<sup>^{1)}\</sup>mbox{Up}$  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%.