## SIEMENS

Data sheet for SIMOTICS S-1FK2

## Article No. :

## 1FK2210-4AB10-1MB0



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

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	2,500 rpm	
Rotor moment of inertia	133.0000 kgcm <sup>2</sup>	
Weight	31.0 kg	
Rated data		

SINAMICS S120, BLM/SLM 3AC 400V		
Rated speed 1,500 rpm		
Rated torque 34.50 Nm		
Rated current 10.4 A		
Rated power 5.40 kW		
Encoder system		

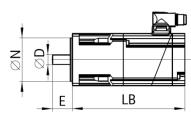
Encoder system

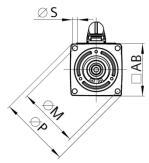
Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn

Motor connection	
Connection type	Double cable connection for S120
Connector size	M23

ltem no. : Consignment no. : Project :

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





Holding brake		
Holding torque	55.00 Nm	
Average dynamic torque	26.00 Nm	
Opening time	220 ms	
Closing time	80 ms	
Maximum single switching energy <sup>1)</sup>	8,700 J	
Service life, operating energy	3,800,000 J	
Rated current <sup>2)</sup>	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>21</sup>Typcial value for 20°C ambient temperature. At -15°C the break-induced currents can be increased by up to 30%.