SIEMENS

Data sheet for SIMOTICS S-1FK2

Article No. :

1FK2306-4AC11-1SB0



Figure simi

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

Encoder system

Connection type

Connector size

Basic motor data		
Motor type	Permanent-magnet synchronous motor, Natural cooling, IP65	
Motor type	High Inertia	
Static torque	12.00 Nm	
Static current	4.5 A	
Maximum torque	38.00 Nm	
Maximum current	17.0 A	
Maximum speed	3,300 rpm	
Rotor moment of inertia	30.8000 kgcm ²	
Weight	12.8 kg	
Rated data		

SINAMICS S120, BLM/SLM 3AC 400V
Rated speed 2,000 rpm
Rated torque 10.50 Nm
Rated current 4.1 A
Rated power 2.20 kW
Encoder system

Motor connection

M23

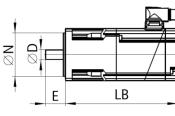
12.8 kg	Length of share
ted data	Length of flan
	Shaft end
2,000 rpm	Color of the h
10.50 Nm	
4.1 A	I
	1

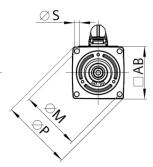
Encoder AS22DQC: Absolute encoder single turn 22 bit

Double cable connection for S120

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	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)	281 mm	
Diameter of shaft (D)	24 mm	
Length of shaft (E)	50 mm	
Length of flange diagonal (P)	158 mm	
Shaft end	Fitted key	
Color of the housing	Standard (Anthracite, similar to RAL 7016)	





Holding brake		
Holding torque	13.00 Nm	
Average dynamic torque	6.50 Nm	
Opening time	100 ms	
Closing time	50 ms	
Maximum single switching energy 1)	1,550 J	
Service life, operating energy	774,000 J	
Rated current ²⁾	0.7 A	

¹⁾Up to three consecutive emergency stops and up to 25% of all emergency stops as a Wmax high energy stop possible.

²¹Typcial value for 20°C ambient temperature. At -15°C the break-induced currents can be increased by up to 30%.