SIEMENS

Data sheet for SIMOTICS S-1FK2

MLFB-Ordering data

1FK2104-4AK11-1MA0



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, IP65 | Design acc. to Code I | IM B5 (IM V1, IM V3) |
| | | Vibration severity grade | Grade A |
| Motor type | High Dynamic | Shaft height | 40 |
| Static torque | 1.27 Nm | Flange size (AB) | 80 mm |
| Static current | 2.4 A | Centering ring (N) | 70 mm |
| Maximum torque | 3.85 Nm | Hole circle (M) | 90 mm |
| Maximum current | 8.7 A | Screw-on hole (S) | 6.5 mm |
| | | Overall length (LB) | 142 mm |
| Maximum speed | 8000 rpm | Diameter of shaft (D) | 19 mm |
| Rotor moment of inertia | 0.430 kgcm² | Length of shaft (E) | 40 mm |
| Weight | 2.9 kg | Length of flange diagonal (P) | 105 mm |
| Rated data | | Shaft extension | Fitted key |

SINAMICS S210, 3AC 400V

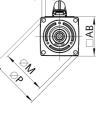
| Rated speed | 6000 rpm | |
|---------------|----------|--|
| Rated torque | 0.95 Nm | |
| Rated current | 1.9 A | |
| Rated power | 0.60 kW | |
| | | |

Encoder system

Encoder system

Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn

| Motor connection | | | |
|------------------|--------------|--|--|
| Connection type | OCC for S210 | | |
| Connector size | M17 | | |



 $\oslash \mathbf{S}$

LB

Е

Figure similar





MLFB-Ordering data

1FK2104-4AK11-1MA0

| Holding brake | | | | |
|--|----------|--|--|--|
| Holding torque | 3.30 Nm | | | |
| Opening time | 50 ms | | | |
| Closing time | 15 ms | | | |
| Maximum single switching energy ¹⁾ | 270.0 J | | | |
| Service life, operating energy | 120000 J | | | |
| Holding current | 0.2 A | | | |
| Break-induced current for 500 ms ²⁾ | 1.2 A | | | |

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

²⁾ Typcial value for 20°C ambient temperature. At -15°C the break-induced currents can be increased by up to 30%.

Figure similar