# **SIEMENS**

## Data sheet for SIMOTICS S-1FK2

### **MLFB-Ordering data**

# 1FK2102-0AG11-0SA0



Figure similar

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 | Design acc. to Code I         | IM B5 (IM V1, IM V3) |
|                         | motor, Natural cooling, IP65 | Vibration severity grade      | Grade A              |
| Motor type              | High Dynamic                 | Shaft height                  | 20                   |
| Static torque           | 0.16 Nm                      | Flange size (AB)              | 40 mm                |
| Static current          | 0.8 A                        | Centering ring (N)            | 30 mm                |
| Maximum torque          | 0.56 Nm                      | Hole circle (M)               | 46 mm                |
| Maximum current         | 3.1 A                        | Screw-on hole (S)             | 4.5 mm               |
| Maximum speed           | 8000 rpm                     | Overall length (LB)           | 121 mm               |
|                         |                              | Diameter of shaft (D)         | 8 mm                 |
| Rotor moment of inertia | 0.029 kgcm²                  | Length of shaft (E)           | 25 mm                |
| Weight                  | 0.7 kg                       | Length of flange diagonal (P) | 54 mm                |
| Rat                     | ted data                     | Shaft extension               | Plain shaft          |

#### SINAMICS S210, 1AC 230V

| Rated speed   | 3000 rpm |  |
|---------------|----------|--|
| Rated torque  | 0.16 Nm  |  |
| Rated current | 0.8 A    |  |
| Rated power   | 0.05 kW  |  |
|               |          |  |

## **Encoder system**

Encoder system

Encoder AS22DQC: Absolute encoder single turn 22 bit

| Motor connection |              |  |  |
|------------------|--------------|--|--|
| Connection type  | OCC for S210 |  |  |
| Connector size   | M12          |  |  |

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LB

Е





## **MLFB-Ordering data**

## 1FK2102-0AG11-0SA0

| Holding brake                                  |         |  |  |
|--|---------|--|--|
| Holding torque                                 | 0.32 Nm |  |  |
| Opening time                                   | 25 ms   |  |  |
| Closing time                                   | 8 ms    |  |  |
| Maximum single switching energy <sup>1)</sup>  | 7.4 J   |  |  |
| Service life, operating energy                 | 1750 J  |  |  |
| Holding current                                | 0.1 A   |  |  |
| Break-induced current for 500 ms <sup>2)</sup> | 0.6 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