

## Data sheet for SIMOTICS S-1FK2



Figure similar

MLFB-Ordering data 1FK2106-4AF10-1MA0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

| Basic motor data        |   | Mechanical data               |                      |
|-------------------------|---|-------------------------------|----------------------|
| Motor type              | Permanent-magnet synchronous motor, Natural cooling, IP64 | Design acc. to Code I         | IM B5 (IM V1, IM V3) |
| Motor type              | High Dynamic  | Vibration severity grade      | Grade A              |
| Static torque           | 12.00 Nm  | Shaft height                  | 63                   |
| Static current          | 10.7 A  | Flange size (AB)              | 125 mm               |
| Maximum torque          | 32.50 Nm  | Centering ring (N)            | 110 mm               |
| Maximum current         | 40.0 A  | Hole circle (M)               | 130 mm               |
| Maximum speed           | 6000 rpm  | Screw-on hole (S)             | 9.0 mm               |
| Rotor moment of inertia | 7.600 kgcm <sup>2</sup>                                   | Overall length (LB)           | 244 mm               |
| Weight                  | 10.6 kg   | Diameter of shaft (D)         | 24 mm                |
|                         |   | Length of shaft (E)           | 50 mm                |
|                         |   | Length of flange diagonal (P) | 158 mm               |
|                         |   | Shaft extension               | Fitted key           |

### Rated data

SINAMICS S210, 3AC 400V

|               |          |
|---------------|----------|
| Rated speed   | 3000 rpm |
| Rated torque  | 8.60 Nm  |
| Rated current | 8.1 A    |
| Rated power   | 2.70 kW  |

### Encoder system

|                |   |
|----------------|---|
| Encoder system | Encoder AM22DQC: Absolute encoder 22 bit + 12 bit multiturn |
|----------------|---|

### Motor connection

|                 |              |
|-----------------|--------------|
| Connection type | OCC for S210 |
| Connector size  | M23          |

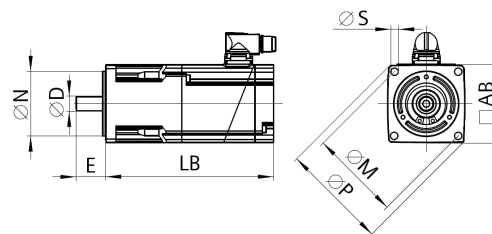


Figure similar

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Figure similar

| Holding brake                                  |          |
|--|----------|
| Holding torque                                 | 13.00 Nm |
| Opening time                                   | 70 ms    |
| Closing time                                   | 30 ms    |
| Maximum single switching energy <sup>1)</sup>  | 1550.0 J |
| Service life, operating energy                 | 774000 J |
| Holding current                                | 0.35 A   |
| Break-induced current for 500 ms <sup>2)</sup> | 1.1 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>2)</sup> Typical value for 20°C ambient temperature. At -15°C the break-induced currents can be increased by up to 30%.