

## Data sheet for SIMOTICS S-1FK2



Figure similar

### MLFB-Ordering data

1FK2103-2AG11-1SA0

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, IP65 | Design acc. to Code I         | IM B5 (IM V1, IM V3) |
| Motor type              | High Dynamic  | Vibration severity grade      | Grade A              |
| Static torque           | 0.64 Nm   | Shaft height                  | 30                   |
| Static current          | 1.4 A   | Flange size (AB)              | 60 mm                |
| Maximum torque          | 1.95 Nm   | Centering ring (N)            | 50 mm                |
| Maximum current         | 4.8 A   | Hole circle (M)               | 70 mm                |
| Maximum speed           | 8000 rpm  | Screw-on hole (S)             | 5.5 mm               |
| Rotor moment of inertia | 0.112 kgcm <sup>2</sup>                                   | Overall length (LB)           | 131 mm               |
| Weight                  | 1.7 kg  | Diameter of shaft (D)         | 14 mm                |
|                         |   | Length of shaft (E)           | 30 mm                |
|                         |   | Length of flange diagonal (P) | 81 mm                |
|                         |   | Shaft extension               | Fitted key           |

### Rated data

SINAMICS S210, 1AC 230V

|               |          |
|---------------|----------|
| Rated speed   | 3000 rpm |
| Rated torque  | 0.64 Nm  |
| Rated current | 1.4 A    |
| Rated power   | 0.20 kW  |

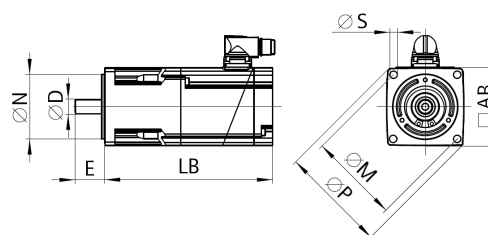


Figure similar

### Encoder system

|                |  |
|----------------|--|
| Encoder system | Encoder AS22DQC: Absolute encoder single turn 22 bit |
|----------------|--|

### Motor connection

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



Figure similar

MLFB-Ordering data                    1FK2103-2AG11-1SA0

| Holding brake                                  |         |
|--|---------|
| Holding torque                                 | 1.30 Nm |
| Opening time                                   | 40 ms   |
| Closing time                                   | 10 ms   |
| Maximum single switching energy <sup>1)</sup>  | 62.0 J  |
| Service life, operating energy                 | 17500 J |
| Holding current                                | 0.15 A  |
| Break-induced current for 500 ms <sup>2)</sup> | 0.8 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%.