

## Data sheet for SIMOTICS S-1FK2

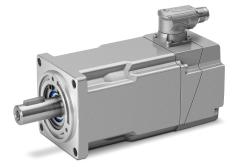


Figure similar

### MLFB-Ordering data

1FK2105-4AF01-0SA0

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           | 5.00 Nm                                                   | Shaft height                  | 52                   |
| Static current          | 4.7 A                                                     | Flange size (AB)              | 105 mm               |
| Maximum torque          | 15.00 Nm                                                  | Centering ring (N)            | 95 mm                |
| Maximum current         | 18.0 A                                                    | Hole circle (M)               | 115 mm               |
| Maximum speed           | 6000 rpm                                                  | Screw-on hole (S)             | 9.0 mm               |
| Rotor moment of inertia | 1.710 kgcm <sup>2</sup>                                   | Overall length (LB)           | 159 mm               |
| Weight                  | 5.6 kg                                                    | Diameter of shaft (D)         | 19 mm                |
|                         |                                                           | Length of shaft (E)           | 40 mm                |
|                         |                                                           | Length of flange diagonal (P) | 135 mm               |
|                         |                                                           | Shaft extension               | Plain shaft          |

### Rated data

SINAMICS S210, 3AC 400V

|               |          |
|---------------|----------|
| Rated speed   | 3000 rpm |
| Rated torque  | 4.60 Nm  |
| Rated current | 4.4 A    |
| Rated power   | 1.45 kW  |

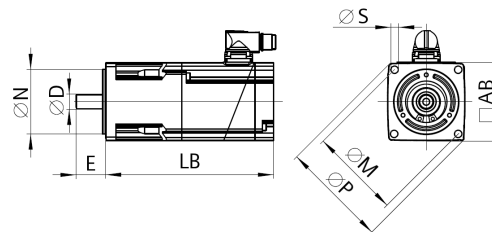


Figure similar

### Encoder system

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

### Motor connection

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