

# SIEMENS

## Data sheet for SIMOTICS S-1FK2

Article No. : 1FK2204-5AK00-0SB0

Client order no. :  
Order no. :  
Offer no. :  
Remarks :

Item no. :  
Consignment no. :  
Project :



Figure similar

### Basic motor data

|                         |   |
|-------------------------|---|
| Motor type              | Permanent-magnet synchronous motor, Natural cooling, IP64 |
| Motor type              | Compact   |
| Static torque           | 2.40 Nm   |
| Static current          | 4.4 A   |
| Maximum torque          | 7.10 Nm   |
| Maximum current         | 14.2 A  |
| Maximum speed           | 8,000 rpm   |
| Rotor moment of inertia | 1.2300 kgcm <sup>2</sup>                                  |
| Weight                  | 2.9 kg  |

### Rated data

SINAMICS S120, BLM/SLM 3AC 400V

|               |           |
|---------------|-----------|
| Rated speed   | 6,000 rpm |
| Rated torque  | 0.90 Nm   |
| Rated current | 2.0 A     |
| Rated power   | 0.57 kW   |

### Encoder system

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

### Motor connection

|                                 |                                  |
|---------------------------------|----------------------------------|
| Connection type                 | Double cable connection for S120 |
| Connector size power connector  | M17                              |
| Connector size signal connector | M17                              |

### Mechanical data

|                               |  |
|-------------------------------|--|
| Design acc. to Code I         | IM B5 (IM V1, IM V3)                       |
| Vibration severity grade      | Grade A                                    |
| Shaft height                  | 40   |
| Flange size (AB)              | 80 mm                                      |
| Centering ring (N)            | 70 mm                                      |
| Hole circle (M)               | 90 mm                                      |
| Screw-on hole (S)             | 6.5 mm                                     |
| Overall length (LB)           | 126 mm                                     |
| Diameter of shaft (D)         | 19 mm                                      |
| Length of shaft (E)           | 40 mm                                      |
| Length of flange diagonal (P) | 105 mm                                     |
| Shaft end                     | Plain shaft                                |
| Color of the housing          | Standard (Anthracite, similar to RAL 7016) |



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