

## Data sheet for SIMOTICS S-1FL2

Article No. : 1FL2102-2AF11-0MC0



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

Item no. :  
Consignment no. :  
Project :

### Basic motor data

|                         |                                    |
|-------------------------|------------------------------------|
| Motor type              | Permanent-magnet synchronous motor |
| Motor type              | Low Inertia                        |
| Static torque           | 0.16 Nm                            |
| Static current          | 0.84 A                             |
| Maximum torque          | 0.56 Nm                            |
| Maximum current         | 3.40 A                             |
| Maximum speed           | 6,500 rpm                          |
| Rotor moment of inertia | 0.0170 kgcm <sup>2</sup>           |
| Weight                  | 0.45 kg                            |

### Rated data

SINAMICS S200, 3 AC 380 ... 480 V

|               |           |
|---------------|-----------|
| Rated speed   | 3,000 rpm |
| Rated torque  | 0.16 Nm   |
| Rated current | 0.84 A    |
| Rated power   | 0.05 kW   |

### Encoder system

|                |   |
|----------------|---|
| Encoder system | Absolute encoder 21-bit singleturn + 12-bit multiturn |
|----------------|---|

### Motor connection

|                 |                        |
|-----------------|------------------------|
| Connection type | Metal hybrid connector |
|-----------------|------------------------|

### Mechanical data

|                               |                      |
|-------------------------------|----------------------|
| Design acc. to Code I         | IM B5 (IM V1, IM V3) |
| Vibration severity grade      | Grade A              |
| Shaft height                  | 20                   |
| Flange size (AB)              | 40.6 mm              |
| Centering ring (N)            | 30 mm                |
| Hole circle (M)               | 46 mm                |
| Screw-on hole (S)             | 4.4 mm               |
| Overall length (LB)           | 96.9 mm              |
| Diameter of shaft (D)         | 8 mm                 |
| Length of shaft (E)           | 25 mm                |
| Length of flange diagonal (P) | 54 mm                |
| Shaft end                     | Plain shaft          |
| Color of the housing          | Anthracite RAL 7016  |



### Holding brake

|                          |              |
|--------------------------|--------------|
| Rated voltage            | 24 V DC 10 % |
| Rated current            | 0.25 A       |
| Holding torque $M_{4Br}$ | 0.32 Nm      |
| Opening time             | 35 ms        |
| Closing time             | 10 ms        |