

## Data sheet for SIMOTICS S-1FL2

Article No. : 1FL2102-2AF10-1SC0



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

Item no. :  
Consignment no. :  
Project :

### Basic motor data

|                         |   |
|-------------------------|---|
| Motor type              | Permanent-magnet synchronous motor, Natural cooling |
| 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 singleturn 21 bit |
|----------------|------------------------------------|

### 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                     | Shaft with parallel key (half-key balancing) |
| 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        |