

## Data sheet for SIMOTICS S-1FL2

Article No. : 1FL2102-4AG11-1HC0

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           | 0.32 Nm                            |
| Static current          | 0.76 A                             |
| Maximum torque          | 1.12 Nm                            |
| Maximum current         | 3.0 A                              |
| Maximum speed           | 6,500 rpm                          |
| Rotor moment of inertia | 0.0290 kgcm <sup>2</sup>           |
| Weight                  | 0.6 kg                             |

### Rated data

SINAMICS S200, 1/3 AC 200 ... 240 V

|               |           |
|---------------|-----------|
| Rated speed   | 3,000 rpm |
| Rated torque  | 0.32 Nm   |
| Rated current | 0.8 A     |
| Rated power   | 0.10 kW   |

### Encoder system

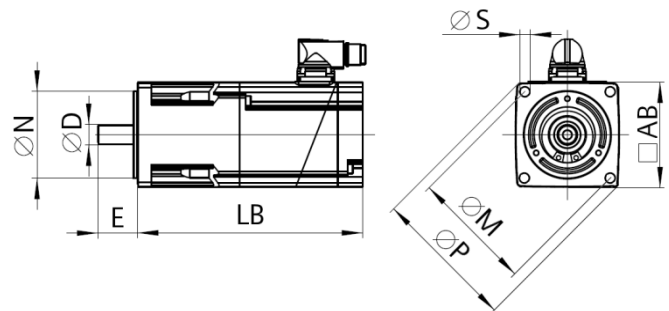
|                |                                    |
|----------------|------------------------------------|
| Encoder system | Absolute encoder singleturn 17 bit |
|----------------|------------------------------------|

### 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)           | 109.9 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        |