

Data sheet for SIMOTICS S-1FL2

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



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

Item no. :  
Consignment no. :  
Project :

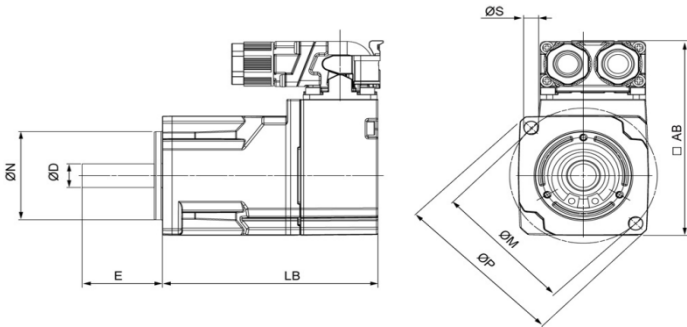
| Basic motor data        |                                                     |
|-------------------------|-----------------------------------------------------|
| Motor type              | Permanent-magnet synchronous motor, Natural cooling |
| Motor type              | Low Inertia                                         |
| 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 | 0.0220 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                     | 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 <sub>4Br</sub> | 0.32 Nm      |
| Opening time                    | 35 ms        |
| Closing time                    | 10 ms        |