

## Data sheet for SIMOTICS S-1FL2

Article No. : 1FL2304-4AF01-1MB0



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

Item no. :  
Consignment no. :  
Project :

### Basic motor data

|                         |                                    |
|-------------------------|------------------------------------|
| Motor type              | Permanent-magnet synchronous motor |
| Motor type              | High Inertia                       |
| Static torque           | 3.02 Nm                            |
| Static current          | 2.50 A                             |
| Maximum torque          | 8.37 Nm                            |
| Maximum current         | 7.30 A                             |
| Maximum speed           | 4,000 rpm                          |
| Rotor moment of inertia | 5.1800 kgcm <sup>2</sup>           |
| Weight                  | 5.40 kg                            |

### Rated data

SINAMICS S200, 3 AC 380 ... 480 V

|               |           |
|---------------|-----------|
| Rated speed   | 3,000 rpm |
| Rated torque  | 2.39 Nm   |
| Rated current | 2.10 A    |
| Rated power   | 0.75 kW   |

### Encoder system

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

### Motor connection

|                 |                         |
|-----------------|-------------------------|
| Connection type | Metal angular connector |
|-----------------|-------------------------|

### Mechanical data

|                               |  |
|-------------------------------|--|
| Design acc. to Code I         | IM B5 (IM V1, IM V3)                         |
| Vibration severity grade      | Grade A                                      |
| Shaft height                  | 45   |
| Flange size (AB)              | 90 mm  |
| Centering ring (N)            | 80 mm  |
| Hole circle (M)               | 100 mm                                       |
| Screw-on hole (S)             | 6.7 mm                                       |
| Overall length (LB)           | 204 mm                                       |
| Diameter of shaft (D)         | 19 mm  |
| Length of shaft (E)           | 35 mm  |
| Length of flange diagonal (P) | 116 mm                                       |
| Shaft end                     | Shaft with parallel key (half-key balancing) |
| Color of the housing          | Anthracite RAL 7016                          |

