

## 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	0.0170 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
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### Motor connection

Connection type	Metal hybrid connector
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### 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