

## Data sheet for SIMOTICS S-1FL6



Figure similar

MLFB-Ordering data

1FL6062-1AC61-2AH1

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

### Engineering data

|                      |                          |
|----------------------|--------------------------|
| Rated speed          | 2000 rpm                 |
| Rated torque (100 K) | 4.78 Nm                  |
| Rated current        | 3.0 A                    |
| Rated power          | 1.00 kW / 1.36 hp        |
| Max. speed           | 3000 rpm                 |
| Maximum torque       | 14.30 Nm                 |
| Max. current         | 9.0 A                    |
| Static torque        | 6.00 Nm                  |
| Moment of inertia    | 16.400 kgcm <sup>2</sup> |

### Physical constants

|                 |            |
|-----------------|------------|
| Torque constant | 1.70 Nm/A  |
| Thermal class   | B (130 °C) |
| Net weight      | 11.30 kg   |

### Ambient conditions

#### Ambient temperature

|           |             |
|-----------|-------------|
| Operation | 0 ... 40 °C |
|-----------|-------------|

#### Relative humidity

|                |  |
|----------------|--|
| Max. operation | 90 % RH maximum (no condensation at 30 °C) |
|----------------|--|

### Standards

|                           |         |
|---------------------------|---------|
| Compliance with standards | CE, EAC |
|---------------------------|---------|

### Mechanical data

|                          |  |
|--------------------------|--|
| Motor type               | High Inertia                               |
| Motor type               | Permanent-magnet synchronous motor         |
| Shaft height             | 65   |
| Encoder system           | Incremental encoder TTL, 2500 S/R (13 bit) |
| Cooling                  | Natural cooling                            |
| Shaft extension          | Plain shaft                                |
| Radial runout tolerance  | Class N                                    |
| Vibration severity grade | Grade A                                    |
| Degree of protection     | IP65                                       |
| Design acc. to Code I    | IM B5 (IM V1, IM V3)                       |
| Connection type          | Angular connector (rotatable)              |

### Holding brake

|                          |                    |
|--------------------------|--------------------|
| Holding torque $M_{4Br}$ | 12.00 Nm           |
| Rated voltage            | 24 V DC $\pm$ 10 % |
| Opening time             | 180 ms             |
| Closing time             | 60 ms              |
| Rated current            | 1.50 A             |