

## Data sheet for SIMOTICS S-1FL6



Figure similar

MLFB-Ordering data

1FL6064-1AC61-2LB1

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

| Engineering data          |                          | Mechanical data           |   |                      |                               |
|---------------------------|--------------------------|---------------------------|---|----------------------|-------------------------------|
| Rated speed               | 2000 rpm                 | Motor type                | High Inertia                                |                      |                               |
| Rated torque (100 K)      | 7.16 Nm                  | Motor type                | Permanent-magnet synchronous motor          |                      |                               |
| Rated current             | 4.6 A                    | Shaft height              | 65  |                      |                               |
| Rated power               | 1.50 kW / 2.04 hp        | Encoder system            | Absolute encoder 20 bit + 12 bit multi-turn |                      |                               |
| Max. speed                | 3000 rpm                 | Cooling                   | Natural cooling                             |                      |                               |
| Maximum torque            | 21.50 Nm                 | Shaft extension           | Feather key                                 |                      |                               |
| Max. current              | 13.8 A                   | Radial runout tolerance   | Class N                                     |                      |                               |
| Static torque             | 8.00 Nm                  | Vibration severity grade  | Grade A                                     |                      |                               |
| Moment of inertia         | 16.400 kgcm <sup>2</sup> | Degree of protection      | IP65  |                      |                               |
| <b>Physical constants</b> |                          | Design acc. to Code I     | IM B5 (IM V1, IM V3)                        |                      |                               |
|                           |                          | Torque constant           | 1.60 Nm/A                                   | Connection type      | Angular connector (rotatable) |
|                           |                          | Thermal class             | B (130 °C)                                  | <b>Holding brake</b> |                               |
| Net weight                | 11.30 kg                 | Holding torque $M_{4Br}$  | 12.00 Nm                                    |                      |                               |
| <b>Ambient conditions</b> |                          | Rated voltage             | 24 V DC $\pm$ 10 %                          |                      |                               |
|                           |                          | Ambient temperature       |   |                      |                               |
| Operation                 | 0 ... 40 °C              | Opening time              | 180 ms                                      |                      |                               |
| <b>Relative humidity</b>  |                          | Closing time              | 60 ms                                       |                      |                               |
|                           |                          | Max. operation            | 90 % RH maximum (no condensation at 30 °C)  | Rated current        | 1.50 A                        |
| <b>Standards</b>          |                          |                           |   |                      |                               |
|                           |                          | Compliance with standards | CE, EAC                                     |                      |                               |