

## Data sheet for SIMOTICS S-1FL6

MLFB-Ordering data

1FL6066-1AC61-2LA1



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

| Engineering data          |                                            | Mechanical data          |                                             |
|---------------------------|--------------------------------------------|--------------------------|---------------------------------------------|
| Rated speed               | 2000 rpm                                   | Motor type               | High Inertia                                |
| Rated torque (100 K)      | 8.36 Nm                                    | Motor type               | Permanent-magnet synchronous motor          |
| Rated current             | 5.3 A                                      | Shaft height             | 65                                          |
| Rated power               | 1.75 kW / 2.38 hp                          | Encoder system           | Absolute encoder 20 bit + 12 bit multi-turn |
| Max. speed                | 3000 rpm                                   | Cooling                  | Natural cooling                             |
| Maximum torque            | 25.10 Nm                                   | Shaft extension          | Feather key                                 |
| Max. current              | 15.9 A                                     | Radial runout tolerance  | Class N                                     |
| Static torque             | 11.00 Nm                                   | Vibration severity grade | Grade A                                     |
| Moment of inertia         | 22.600 kgcm <sup>2</sup>                   | Degree of protection     | IP65                                        |
| Physical constants        |                                            | Design acc. to Code I    | IM B5 (IM V1, IM V3)                        |
| Torque constant           | 1.70 Nm/A                                  | Connection type          | Angular connector (rotatable)               |
| Thermal class             | B (130 °C)                                 |                          |                                             |
| Net weight                | 10.80 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                                    |                          |                                             |