

## Data sheet for SIMOTICS S-1FL6

MLFB-Ordering data                      1FL6044-1AF61-2AA1



Figure similar

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

Item no. :  
Consignment no. :  
Project :

| Engineering data          |                                            | Mechanical data          |                                            |
|---------------------------|--------------------------------------------|--------------------------|--------------------------------------------|
| Rated speed               | 3000 rpm                                   | Motor type               | High Inertia                               |
| Rated torque (100 K)      | 2.39 Nm                                    | Motor type               | Permanent-magnet synchronous motor         |
| Rated current             | 2.1 A                                      | Shaft height             | 45                                         |
| Rated power               | 0.75 kW / 1.02 hp                          | Encoder system           | Incremental encoder TTL, 2500 S/R (13 bit) |
| Max. speed                | 4000 rpm                                   | Cooling                  | Natural cooling                            |
| Maximum torque            | 7.20 Nm                                    | Shaft extension          | Feather key                                |
| Max. current              | 6.3 A                                      | Radial runout tolerance  | Class N                                    |
| Static torque             | 3.50 Nm                                    | Vibration severity grade | Grade A                                    |
| Moment of inertia         | 5.200 kgcm <sup>2</sup>                    | Degree of protection     | IP65                                       |
| Physical constants        |                                            | Design acc. to Code I    | IM B5 (IM V1, IM V3)                       |
| Torque constant           | 1.20 Nm/A                                  | Connection type          | Angular connector (rotatable)              |
| Thermal class             | B (130 °C)                                 |                          |                                            |
| Net weight                | 5.20 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                                    |                          |                                            |