

## Data sheet for SIMOTICS S-1FL6

MLFB-Ordering data                      1FL6094-1AC61-0AA1



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)      | 23.90 Nm                                   | Motor type               | Permanent-magnet synchronous motor                |
| Rated current             | 12.6 A                                     |                          |                                                   |
| Rated power               | 5.00 kW / 6.80 hp                          | Shaft height             | 90                                                |
| Max. speed                | 2500 rpm                                   | Encoder system           | Incremental encoder TTL, 2500 S/R (13 bit)        |
| Maximum torque            | 70.00 Nm                                   | Cooling                  | Natural cooling                                   |
| Max. current              | 36.9 A                                     | Shaft end                | Feather key                                       |
| Static torque             | 30.00 Nm                                   | Radial runout tolerance  | Class N                                           |
| Moment of inertia         | 90.800 kgcm²                               | Vibration severity grade | Grade A                                           |
| Physical constants        |                                            | Degree of protection     | IP65                                              |
| Torque constant           | 2.00 Nm/A                                  | Design acc. to Code I    | IM B5 (IM V1, IM V3)                              |
| Thermal class             | B (130 °C)                                 | Connection type          | Straight connector (fixed cable outlet direction) |
| Net weight                | 24.30 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                                    |                          |                                                   |