

## Data sheet for SIMOTICS S-1FL6



Figure similar

MLFB-Ordering data

1FL6061-1AC61-2LA1

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)       | 3.58 Nm                                    | Motor type               | Permanent-magnet synchronous motor          |                 |                               |
| Rated current              | 2.5 A                                      | Shaft height             | 65  |                 |                               |
| Rated power                | 0.75 kW / 1.02 hp                          | Encoder system           | Absolute encoder 20 bit + 12 bit multi-turn |                 |                               |
| Max. speed                 | 3000 rpm                                   | Cooling                  | Natural cooling                             |                 |                               |
| Maximum torque             | 10.70 Nm                                   | Shaft end                | Feather key                                 |                 |                               |
| Max. current               | 7.5 A                                      | Radial runout tolerance  | Class N                                     |                 |                               |
| Static torque              | 4.00 Nm                                    | Vibration severity grade | Grade A                                     |                 |                               |
| Moment of inertia          | 8.000 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          | 1.50 Nm/A                                   | Connection type | Angular connector (rotatable) |
|                            |  | Thermal class            | B (130 °C)                                  |                 |                               |
| Net weight                 | 5.40 kg                                    |                          |   |                 |                               |
| <b>Ambient conditions</b>  |  |                          |   |                 |                               |
| <b>Ambient temperature</b> |  |                          |   |                 |                               |
| Operation                  | 0 ... 40 °C                                |                          |   |                 |                               |
| <b>Relative humidity</b>   |  |                          |   |                 |                               |
| Max. operation             | 90 % RH maximum (no condensation at 30 °C) |                          |   |                 |                               |
| <b>Standards</b>           |  |                          |   |                 |                               |
| Compliance with standards  | CE, EAC                                    |                          |   |                 |                               |



Figure similar

Article No. : 1FL6061-1AC61-2LA1

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

Item no. :  
Consignment no. :  
Project :

### Engineering data

|                      |                         |
|----------------------|-------------------------|
| Rated speed          | 2,000 rpm               |
| Rated torque (100 K) | 3.58 Nm                 |
| Rated current        | 2.5 A                   |
| Rated power          | 0.75 kW / 1.02 hp       |
| Max. speed           | 3,000 rpm               |
| Maximum torque       | 10.70 Nm                |
| Max. current         | 7.5 A                   |
| Static torque        | 4.00 Nm                 |
| Moment of inertia    | 8.000 kgcm <sup>2</sup> |

### Physical constants

|                 |            |
|-----------------|------------|
| Torque constant | 1.50 Nm/A  |
| Thermal class   | B (130 °C) |
| Net weight      | 5.40 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           | Absolute encoder 20 bit + 12 bit multi-turn |
| Cooling                  | Natural cooling                             |
| Shaft end                | Feather key                                 |
| 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)               |