

## Data sheet for SIMOTICS S-1FL6

MLFB-Ordering data

1FL6024-2AF21-1AG1



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

### Engineering data

|                      |                         |
|----------------------|-------------------------|
| Rated speed          | 3000 rpm                |
| Rated torque (100 K) | 0.32 Nm                 |
| Rated current        | 1.2 A                   |
| Rated power          | 0.10 kW / 0.14 hp       |
| Max. speed           | 5000 rpm                |
| Maximum torque       | 0.96 Nm                 |
| Max. current         | 3.6 A                   |
| Static torque        | 0.32 Nm                 |
| Moment of inertia    | 0.052 kgcm <sup>2</sup> |

### Physical constants

|                 |            |
|-----------------|------------|
| Torque constant | 0.29 Nm/A  |
| Thermal class   | B (130 °C) |
| Net weight      | 0.63 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               | Low Inertia                                |
| Motor type               | Permanent-magnet synchronous motor         |
| Shaft height             | 20   |
| Encoder system           | Incremental encoder TTL, 2500 S/R (13 bit) |
| Cooling                  | Natural cooling                            |
| Shaft extension          | Plain shaft                                |
| 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          | Cable outlet                               |