

MLFB-Ordering data

6FX2001-5QS12



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Electrical data

| | |
|------------------------|---|
| Operating voltage Up | DC 10 ... 30 V |
| Max. power consumption | 160 mA |
| Interface | SSI |
| Clock input | Differential line receiver according to EIA Standard RS 485 |
| Data output | Differential line driver according to EIA Standard RS 485 |
| Short-circuit strength | Yes |
| Transmission rate | 100 kHz ... 1 MHz |
| Connection type | Flange socket, Radial |
| Resolution | 13 bit (8192 increments) |
| Telegram | 13 bit, without parity |
| Code type | |
| Sampling | Gray |
| Transmission | Gray, fir-tree format |

Parameterizability

| | |
|--------------------|-------------------------------|
| Preset | Yes |
| Counting direction | Yes |
| Accuracy | ± 79 " (with 8192 increments) |

Cable length up to the subsequent electronics, max.

| | |
|---------------|---------|
| Up to 100 kHz | 400.0 m |
| Up to 300 kHz | 100.0 m |
| Up to 1 MHz | 50.0 m |

Mechanical data

| | |
|--------------------------------|-----------------------------|
| Shaft version | Solid shaft |
| Shaft diameter | 10 mm |
| Shaft length | 20 mm |
| Angular acceleration, max. | 100000 rad/s ² |
| Moment of inertia of rotor | 0.00000145 kgm ² |
| Vibration (55...2000 Hz), max. | 300 m/s ² |
| Friction torque (at 20°C) | ≤ 0.01 Nm |
| Starting torque (at 20°C) | ≤ 0.01 Nm |
| Net weight | 0.3 kg |
| Speed max. | |
| With ± 1 bit accuracy | 5000 rpm |
| With ± 100 bit accuracy | 10000 rpm |
| Max. permissible speed (mech.) | 12000 rpm |
| Load capacity | |
| n = 6000 rpm | |
| - Axial | 10 N |
| - Radial at shaft end | 20 N |
| n > 6000 rpm | |
| - Axial | 40 N |
| - Radial at shaft end | 60 N |
| Shock, max. | |
| 2 ms | 2000 m/s ² |
| 6 ms | 1000 m/s ² |
| Degree of protection | |
| Without shaft input | IP67 |
| With shaft input | IP64 |

MLFB-Ordering data

6FX2001-5QS12



Figure similar

Ambient temperature

During operation

-40 ... 85 °C

Standards

Compliance with standards

CE, cULus

EMC class filter

Tested to DIN EN 50081 and EN 50082