

MLFB-Ordering data 6FX2001-5QS24



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

| Electrical data | | Mechanical data | |
|---|---|--------------------------------|-----------------|
| Operating voltage Up | DC 10 ... 30 V | Shaft version | Solid shaft |
| Max. power consumption | 200 mA | Shaft diameter | 10 mm |
| Interface | SSI | Shaft length | 20 mm |
| Clock input | Differential line receiver according to EIA Standard RS 485 | Angular acceleration, max. | 100000 rad/s² |
| Data output | Differential line driver according to EIA Standard RS 485 | Moment of inertia of rotor | 0.00000145 kgm² |
| Short-circuit strength | Yes | Vibration (55...2000 Hz), max. | 300 m/s² |
| Transmission rate | 100 kHz ... 1 MHz | Friction torque (at 20°C) | <= 0.01 Nm |
| Connection type | Flange socket, Radial | Starting torque (at 20°C) | <= 0.01 Nm |
| Resolution | 25 bit (8192 increments x 4096 rpms) | Net weight | 0.3 kg |
| Telegram | 25 bit, without parity | Speed max. | |
| Code type | | With ± 1 bit accuracy | 5000 rpm |
| Sampling | Gray | With ± 100 bit accuracy | 10000 rpm |
| Transmission | Gray, fir-tree format | Max. permissible speed (mech.) | 10000 rpm |
| Parameterizability | | Load capacity | |
| Preset | Yes | n <= 6000 rpm | |
| Counting direction | Yes | - Axial | 40 N |
| Accuracy | ± 79 " (with 8192 increments) | - Radial at shaft end | 60 N |
| Cable length up to the subsequent electronics, max. | | n > 6000 rpm | |
| Up to 100 kHz | 400.0 m | - Axial | 10 N |
| Up to 300 kHz | 100.0 m | - Radial at shaft end | 20 N |
| Up to 1 MHz | 50.0 m | Shock, max. | |
| | | 2 ms | 2000 m/s² |
| | | 6 ms | 1000 m/s² |
| | | Degree of protection | |
| | | Without shaft input | IP67 |
| | | With shaft input | IP64 |

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| Ambient temperature | | Standards | |
|---------------------|---------------|---------------------------|-------------------------------------|
| During operation | -40 ... 85 °C | Compliance with standards | CE, cULus |
| | | EMC class filter | Tested to DIN EN 50081 and EN 50082 |