

MLFB-Ordering data

6FX2001-5FE25



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

Remarks :

| Item no. : |
|-------------------|
| Consignment no. : |
| Project : |

| Electrical data | | Mechanical data | |
|---|--|--------------------------------|-----------------------------|
| Operating voltage Up | DC 5 V ± 5 % | Shaft version | Solid shaft |
| Max. power consumption | 200 mA | Shaft diameter | 6 mm |
| Interface | EnDat | Shaft length | 10 mm |
| Clock input | Differential line receiver according to EIA Standard RS 485 | Angular acceleration, max. | 100000 rad/s ² |
| | | Moment of inertia of rotor | 0.00000145 kgm ² |
| Data output | Differential line driver according to EIA Standard RS 485 | Vibration (552000 Hz), max. | 300 m/s² |
| Connection type | Flange socket, Radial | Friction torque (at 20°C) | <= 0.01 Nm |
| Resolution | 25 bit, (8192 increments x 4096 rpms) | Starting torque (at 20°C) | <= 0.01 Nm |
| | | Net weight | 0.3 kg |
| Telegram | 25 bit, According to EnDat specifications | Speed max. | |
| Incremental track | 512 S/R, 1 Vpp | With ± 1 bit accuracy | 5000 rpm |
| Short-circuit strength | Yes | With ± 100 bit accuracy | 10000 rpm |
| Transmission rate | 100 kHz 2 MHz | Max. permissible speed (mech.) | 10000 rpm |
| Cable length up to the subsequent electronics, max. | | Load capacity | |
| Up to 300 kHz | 150.0 m | n = 6000 rpm | |
| Up to 1 MHz | 50.0 m | - Axial | 10 N |
| Code type | | - Radial at shaft end | 20 N |
| Sampling | Gray | n > 6000 rpm | |
| Transmission | binary | - Axial | 40 N |
| Parameterizability | | - Radial at shaft end | 60 N |
| Accuracy | ± 60 " (Incremental track) | Shock, max. | |
| Ambient temperature | | 2 ms | 2000 m/s² |
| During operation | -40 100 °C | 6 ms | 1000 m/s² |
| Standards | | Degree of protection | |
| Compliance with standards | CE, cULus | Without shaft input | IP67 |
| EMC class filter | Tested to DIN EN 50081 and EN 50082 | With shaft input | IP64 |