

MLFB-Ordering data

6FX2001-2EC50



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Electrical data

| | |
|-------------------------------------|---------------------------------------|
| Operating voltage Up | DC 5 V ± 10 % |
| Max. power consumption without load | 150 mA |
| Signal level | TTL (RS 422) |
| Resolution | 2500 S/R |
| Accuracy | 26 rad |
| Sampling frequency, max. | 300 kHz |
| Switching time (10 ... 90 %) | <= 50 ns Rise / fall time t+/t- <= |
| Phase relation signal A to B | 90° |
| Edge clearance at 300 kHz | 0.45 µs |
| LED failure monitoring | High impedance driver |

Cable length

To the downstream electronics, max. 100 m

Ambient temp in operation

Fixed installation of flange outlet or cable

- At Up = 5V ± 10% -40 ... 100 °C

Flexible cable

- At Up = 5V ± 10% -10 ... 100 °C

Standards

| | |
|---------------------------|---|
| Compliance with standards | CE, cULus |
| EMC class filter | Tested according to the EMC guidelines 89/336/EEC and the rules of the EMC guidelines (generic standards) |

Mechanical data

| | |
|---------------------------------|-----------------------------|
| Shaft diameter | 6 mm |
| Shaft length | 10 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), max. | 0.01 Nm |
| Starting torque (at 20°C), max. | 0.01 Nm |
| Net weight | 0.3 kg |

Max. admissible speed

| | |
|------------|-----------|
| Electrical | 7200 rpm |
| Mechanical | 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 |