

MLFB-Ordering data

6FX2001-3GC50



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 150 mA

Signal level Sinusoidal 1 Vpp

Resolution 2500 S/R

Accuracy 26 rad

Phase relation signal A to B 90° ± 10 %

### Limit frequency type at

-3 dB ≥ 100 kHz

-6 dB ≥ 200 kHz

### Cable length

To the downstream electronics, 150 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<sup>2</sup>

Moment of inertia of rotor 0.00000145 kgm<sup>2</sup>

Vibration (55...2000 Hz), max. 300

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<sup>2</sup>

6 ms 1000 m/s<sup>2</sup>

### Degree of protection

Without shaft input IP67

With shaft input IP64