

MLFB-Ordering data

6FX2001-4DC50



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 without	150 mA
Signal level	UH $\geq$ 21 V at IH = 20 mA at 24 V; UL $\leq$ 2,8 V at IL = 20 mA at 24 V
Resolution	2500 S/R
Accuracy	26 rad
Sampling frequency, max.	300 kHz
Switching time (10 ... 90 %)	= 200 ns Rise / fall time t+/t- $\leq$
Phase relation signal A to B	90°
Edge clearance at 300 kHz	0.45 $\mu$ s
LED failure monitoring	High impedance driver

### Cable length

To the downstream electronics,	300 m
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### Ambient temp in operation

#### Fixed installation of flange outlet or cable

- At Up = 10V ... 30V	-40 ... 100 °C
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#### Flexible cable

- At Up = 10V ... 30V	-10 ... 100 °C
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### Standards

Compliance with standards	CE, cULus
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#### 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 m/s <sup>2</sup>
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