

MLFB-Ordering data

6FX2001-2RC00



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Electrical data	Mechanical data
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Operating voltage Up	DC 5 V ± 10 %	Shaft diameter	10 mm
Max. power consumption without load	150 mA	Shaft length	20 mm
Signal level	TTL (RS 422)	Angular acceleration, max.	100000 rad/s <sup>2</sup>
Resolution	2000 S/R	Moment of inertia of rotor	0.00000145 kgm <sup>2</sup>
Accuracy	32 rad	Vibration (55...2000 Hz), max.	300 m/s <sup>2</sup>
Sampling frequency, max.	300 kHz	Friction torque (at 20°C), max.	0.01 Nm
Switching time (10 ... 90 %)	<= 50 ns	Starting torque (at 20°C), max.	0.01 Nm
	Rise / fall time t+/t- <=	Net weight	0.3 kg
Phase relation signal A to B	90°	<b>Speed max.</b>	
Edge clearance at 300 kHz	0.45 µs	Max. permissible speed (elec.)	9000 rpm
LED failure monitoring	High impedance driver	Max. permissible speed (mech.)	12000 rpm

### Cable length

To the downstream electronics, max. 100 m

### Ambient temperature 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)

#### 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