

MLFB-Ordering data

6FX2001-5WP12



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	100 ... 300 mA (2.5 W)
Interface	PROFIBUS DP-V2
Clock input	Differential line receiver according to EIA Standard RS 485
Data output	Differential line driver according to EIA Standard RS 485
Short-circuit strength	Yes
Transmission rate	12 Mbit/s
LED for diagnostics	Yes (green/red)
Number of nodes	99

Connection type Terminal block with address selector switch and bus terminating resistor in removable cover with radial cable glands (3 units), Radial

Cable diameter 6.5 mm ... 9.0 mm, Tube dismantling possible without bus interruption

Resolution 13 bit, (8192 increments)

Telegram According to PNO encoder profile V4.1 Class1, Class 2, Class 3, standard telegram 81

Cable length up to the subsequent electronics, max.

Up to 93.75 kbit/s 1200 m

Up to 1.5 Mbit/s 200.0 m

Up to 12 Mbit/s 100.0 m

Code type

Sampling Gray

Transmission binary, PROFIBUS

Mechanical data

Shaft version Hollow shaft

Shaft diameter 15 mm (8 mm / 10 mm / 12 mm with reducing sleeves)

Angular acceleration, max. 100000 rad/s²

Moment of inertia of rotor 0.00000280 kgm²

Vibration (55...2000 Hz), max. 100 m/s²

Friction torque (at 20°C) ≤ 0.01 Nm

Starting torque (at 20°C) ≤ 0.01 Nm

Net weight 0.4 kg

Speed max.

With ± 1 bit accuracy 5800 rpm

Max. permissible speed (mech.) 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 110 N

Shock, max.

2 ms 2000 m/s²

6 ms 1000 m/s²

Degree of protection

Without shaft input IP67

With shaft input IP64

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Electrical data

Parameterizability

Preset	Yes
Counting direction	Yes
Resolution per revolution	Any 1 ... 8192
Total resolution	Any 1 ... 8192
Speed signal	Yes
Limit switch	Yes, 2 pieces
Clock synchronism	Yes
Slave-to-slave communication	Yes
Accuracy	$\pm 79''$ with 8192 increments ($\pm 1/2$ LSB)

Ambient temperature

During operation -40 ... 85 °C

Standards

Compliance with standards	CE, cULus
EMC class filter	Tested to DIN EN 50081 and EN 50082