

MLFB-Ordering data

6FX2001-5QN25



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 130 ... 400 mA (< 4 W)

Interface PROFINET IO with RT / IRT

Clock input 2 ports IRT

Data output 2 ports IRT

Short-circuit strength Yes

Transmission rate 100 Mbit/s

LED for diagnostics Yes (green/red/yellow)

Connection type 2 x connector M12, 4-pin for PROFINET / EtherNet/IP Ports, 1 x connector M12, 4-pin for operating voltageRadial

Resolution 27 bit (8192 increments x 16384 rpms)

Telegram According to PNO cncoder profile V4.1 Class1, Class 2, Class 3, Class 4, standard telegrams 81/82/83/84, Siemens telegram 860

Code type

Sampling Gray

Transmission binary, PROFINET / EtherNet/IP

Cable length up to the subsequent electronics, max.

Up to 12 Mbit/s 100 m

Mechanical data

Shaft version Solid shaft

Shaft diameter 10 mm

Shaft length 20 mm

Angular acceleration, max. 100000 rad/s²

Moment of inertia of rotor 0.00000301 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.) 6000 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 x 16384
Speed signal	Yes
Limit switch	No
Clock synchronism	Yes
Slave-to-slave communication	No
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