



Figure similar

### MLFB-Ordering data

6FX2001-5WN13

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 / EtherNet/IP 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 voltage Radial

**Resolution** 13 bit (8192 increments)

**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** Hollow shaft

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

**Angular acceleration, max.** 100000 rad/s<sup>2</sup>

**Moment of inertia of rotor** 0.00000301 kgm<sup>2</sup>

**Vibration (55...2000 Hz), max.** 100 m/s<sup>2</sup>

**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/s<sup>2</sup>

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

### 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	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