



Figure similar

### MLFB-Ordering data

6FX2001-5WN25

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Electrical data		Mechanical data	
Operating voltage Up	DC 10 ... 30 V	Shaft version	Hollow shaft
Max. power consumption	130 ... 400 mA (< 4 W)	Shaft diameter	15 mm (8 mm / 10 mm / 12 mm with reducing sleeves)
Interface	PROFINET / EtherNet/IP IO with RT / IRT	Angular acceleration, max.	100000 rad/s <sup>2</sup>
Clock input	2 ports IRT	Moment of inertia of rotor	0.00000301 kgm <sup>2</sup>
Data output	2 ports IRT	Vibration (55...2000 Hz), max.	100 m/s <sup>2</sup>
Short-circuit strength	Yes	Friction torque (at 20°C)	<= 0.01 Nm
Transmission rate	100 Mbit/s	Starting torque (at 20°C)	<= 0.01 Nm
LED for diagnostics	Yes (green/red/yellow)	Net weight	0.4 kg
Connection type	2 x connector M12, 4-pin for PROFINET / EtherNet/IP Ports, 1 x connector M12, 4-pin for operating voltageRadial	Speed max.	
Resolution	27 bit (8192 increments x 16384 rps)	With ± 1 bit accuracy	5800 rpm
Telegram	According to PNO cncoder profile V4.1 Class1, Class 2, Class 3, Class 4, standard telegrams 81/82/83/84, Siemens telegram 860	Max. permissible speed (mech.)	6000 rpm
Code type		Load capacity	
Sampling	Gray	n = 6000 rpm	
Transmission	binary, PROFINET / EtherNet/IP	- Axial	10 N
Cable length up to the subsequent electronics, max.		- Radial at shaft end	20 N
Up to 12 Mbit/s	100 m	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 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