

### MLFB-Ordering data

6FX2001-5QN25



Figure similar

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	Solid shaft
Max. power consumption	130 ... 400 mA (< 4 W)	Shaft diameter	10 mm
Interface	PROFINET / EtherNet/IP IO with RT / IRT	Shaft length	20 mm
Clock input	2 ports IRT	Angular acceleration, max.	100000 rad/s <sup>2</sup>
Data output	2 ports IRT	Moment of inertia of rotor	0.00000301 kgm <sup>2</sup>
Short-circuit strength	Yes	Vibration (55...2000 Hz), max.	100 m/s <sup>2</sup>
Transmission rate	100 Mbit/s	Friction torque (at 20°C)	<= 0.01 Nm
LED for diagnostics	Yes (green/red/yellow)	Starting torque (at 20°C)	<= 0.01 Nm
Connection type	2 x connector M12, 4-pin for PROFINET / EtherNet/IP Ports, 1 x connector M12, 4-pin for operating voltageRadial	Net weight	0.4 kg
Resolution	27 bit (8192 increments x 16384 rpm)	Speed max.	
Telegram	According to PNO cncoder profile V4.1 Class1, Class 2, Class 3, Class 4, standard telegrams 81/82/83/84, Siemens telegram 860	With ± 1 bit accuracy	5800 rpm
Code type		Max. permissible speed (mech.)	6000 rpm
Sampling	Gray	Load capacity	
Transmission	binary, PROFINET / EtherNet/IP	n = 6000 rpm	
Cable length up to the subsequent electronics, max.		- Axial	10 N
Up to 12 Mbit/s	100 m	- 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 x 16384
Speed signal	Yes
Limit switch	No
Clock synchronism	Yes
Slave-to-slave communication	No
Accuracy	± 79 " with 8192 increments (± 1/2 LSB)

### Ambient temperature

During operation	-40 ... 85 °C
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### Standards

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