

MLFB-Ordering data

6FX2001-5QP12



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	100 ... 300 mA (2.5 W)	Shaft diameter	10 mm
Interface	PROFIBUS DP-V2	Shaft length	20 mm
Clock input	Differential line receiver according to EIA Standard RS 485	Angular acceleration, max.	100000 rad/s <sup>2</sup>
Data output	Differential line driver according to EIA Standard RS 485	Moment of inertia of rotor	0.00000190 kgm <sup>2</sup>
Short-circuit strength	Yes	Vibration (55...2000 Hz), max.	100 m/s <sup>2</sup>
Transmission rate	12 Mbit/s	Friction torque (at 20°C)	<= 0.01 Nm
LED for diagnostics	Yes (green/red)	Starting torque (at 20°C)	<= 0.01 Nm
Number of nodes	99	Net weight	0.4 kg
Connection type	Terminal block with address selector switch and bus terminating resistor in removable cover with radial cable glands (3 units), Radial	<b>Speed max.</b>	
Cable diameter	6.5 mm ... 9.0 mm, Tube dismantling possible without bus interruption	With ± 1 bit accuracy	5800 rpm
Resolution	13 bit, (8192 increments)	Max. permissible speed (mech.)	12000 rpm
Telegram	According to PNO cncoder profile V4.1 Class1, Class 2, Class 3, standard telegram 81	<b>Load capacity</b>	
<b>Cable length up to the subsequent electronics, max.</b>		n <= 6000 rpm	
Up to 93.75 kbit/s	1200 m	- Axial	40 N
Up to 1.5 Mbit/s	200.0 m	- Radial at shaft end	110 N
Up to 12 Mbit/s	100.0 m	n > 6000 rpm	
<b>Code type</b>		- Axial	10 N
Sampling	Gray	- Radial at shaft end	20 N
Transmission	binary, PROFIBUS	<b>Shock, max.</b>	
		2 ms	2000 m/s <sup>2</sup>
		6 ms	1000 m/s <sup>2</sup>
		<b>Degree of protection</b>	
		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