



Ordering data

6FX2001-5QP24

Client order no. :

Item no. :

Order no. :

Consignment no. :

Offer no. :

Project :

Remarks :

Electrical data		Mechanical data	
Operating voltage Up	DC 10 ... 30 V	Shaft diameter	10 mm
Max. power consumption	100 ... 300 mA (2,5 W)	Shaft length	20 mm
Interface	PROFIBUS DP-V2	Angular acceleration, max.	100000 rad/s ²
Clock input	Differential line receiver according to EIA Standard RS 485	Moment of inertia of rotor	0.00000190 kgm ²
Data output	Differential line driver according to EIA Standard RS 485	Vibration (55...2000 Hz), max.	100 m/s ²
Short-circuit strength	Yes	Friction torque (at 20 °C)	<= 0.01 Nm
Transmission rate	12 Mbit/s	Starting torque (at 20 °C)	<= 0.01 Nm
LED for diagnostics	Yes (green/red)	Net weight	0.5 kg
Number of nodes	99	Speed max.	
Connection type	Terminal block with address selector switch and bus terminating resistor in removable cover with radial cable glands (3 units), Radial	With ± 1 bit accuracy	5800 rpm
Cable diameter	6.5 mm ... 9.0 mm, Tube dismantling possible without bus interruption	Max. permissible speed (mech.)	6000 rpm
Resolution	27 bit, (8192 increments x 16384 rpms)	Load capacity	
Telegram	Telegram 81	n ≤ 6000 rpm	
Cable length up to the subsequent electronics, max.		- Axial	10 N
Up to 93.75 kbit/s	1200 m	- Radial at shaft end	20 N
Up to 1.5 Mbit/s	200.0 m	n > 6000 rpm	
Up to 12 Mbit/s	100.0 m	- Axial	40 N
Code type		- Radial at shaft end	110 N
Sampling	Gray	Shock, max.	
Transmission	Binary, PROFIBUS	2 ms	2000 m/s ²
		6 ms	1000 m/s ²
		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 ... 16384
Speed signal	Yes
Limit switch	Yes, 2 pieces
Clock synchronism	Yes
Slave-to-slave communication	Yes
Accuracy	± 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