



Figure similar

MLFB-Ordering data

6FX2001-5SS12

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	160 mA	Shaft diameter	10 mm
Interface	SSI	Shaft length	20 mm
Clock input	Differential line receiver according to EIA Standard RS 485	Angular acceleration, max.	100000 rad/s ²
Data output	Differential line driver according to EIA Standard RS 485	Moment of inertia of rotor	0.00000145 kgm ²
Short-circuit strength	Yes	Vibration (55...2000 Hz), max.	300 m/s ²
Transmission rate	100 kHz ... 1 MHz	Friction torque (at 20°C)	≤ 0.01 Nm
Connection type	Flange socket, Axial	Starting torque (at 20°C)	≤ 0.01 Nm
Resolution	13 bit (8192 increments)	Net weight	0.3 kg
Telegram	13 bit, without parity	Speed max.	
Code type		With ± 1 bit accuracy	5000 rpm
Sampling	Gray	With ± 100 bit accuracy	10000 rpm
Transmission	Gray, fir-tree format	Max. permissible speed (mech.)	12000 rpm
Parameterizability		Load capacity	
Preset	Yes	n = 6000 rpm	
Counting direction	Yes	- Axial	10 N
Accuracy	± 79 " (with 8192 increments)	- Radial at shaft end	20 N
Cable length up to the subsequent electronics, max.		n > 6000 rpm	
Up to 100 kHz	400.0 m	- Axial	40 N
Up to 300 kHz	100.0 m	- Radial at shaft end	60 N
Up to 1 MHz	50.0 m	Shock, max.	
		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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Figure similar

Ambient temperature

During operation

-40 ... 85 °C

Standards

Compliance with standards

CE, cULus

EMC class filter

Tested to DIN EN 50081 and EN 50082