



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	160 mA	Shaft diameter	6 mm
Interface	SSI	Shaft length	10 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, Radial	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	40 N
Accuracy	± 79 " (with 8192 increments)	- Radial at shaft end	60 N
Cable length up to the subsequent electronics, max.		n > 6000 rpm	
Up to 100 kHz	400.0 m	- Axial	10 N
Up to 300 kHz	100.0 m	- Radial at shaft end	20 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

MLFB-Ordering data 6FX2001-5FS12



Figure similar

Ambient temperature		Standards	
During operation	-40 ... 85 °C	Compliance with standards	CE, cULus
		EMC class filter	Tested to DIN EN 50081 and EN 50082