

MLFB-Ordering data

6FX2001-3EC50



Figure similar

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

Electrical data		Mechanical data	
Operating voltage Up	DC 5 V ± 10 %	Shaft diameter	6 mm
Max. power consumption without	150 mA	Shaft length	10 mm
Signal level	Sinusoidal 1 Vpp	Angular acceleration, max.	100000 rad/s ²
Resolution	2500 S/R	Moment of inertia of rotor	0.00000145 kgm ²
Accuracy	26 rad	Vibration (55...2000 Hz), max.	300
Phase relation signal A to B	90° ± 10 %	Friction torque (at 20°C), max.	0.01 Nm
Limit frequency type at		Starting torque (at 20°C), max.	0.01 Nm
-3 dB	>= 100 kHz	Net weight	0.3 kg
-6 dB	>= 200 kHz	Speed max.	
Cable length		Max. permissible speed (elec.)	7200 rpm
To the downstream electronics,	150 m	Max. permissible speed (mech.)	12000 rpm
Ambient temperature Operation		Load capacity	
Fixed installation of flange outlet or cable		n = 6000 rpm	
- At Up = 5V ± 10%	-40 ... 100 °C	- Axial	10 N
Flexible cable		- Radial at shaft end	20 N
- At Up = 5V ± 10%	-10 ... 100 °C	n > 6000 rpm	
Standards		- Axial	40 N
Compliance with standards	CE, cULus	- Radial at shaft end	60 N
EMC class filter	Tested according to the EMC guidelines 89/336/EEC and the rules of the EMC guidelines (generic standards)	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