

MLFB-Ordering data

6FX2001-4FA50



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 diameter	6 mm
Max. power consumption without	150 mA	Shaft length	10 mm
Signal level	UH >= 21 V at IH = 20 mA at 24 V; UL <= 2,8 V at IL = 20 mA at 24 V	Angular acceleration, max.	100000 rad/s ²
Resolution	500 S/R	Moment of inertia of rotor	0.00000145 kgm ²
Accuracy	130 rad	Vibration (55...2000 Hz), max.	300 m/s ²
Sampling frequency, max.	300 kHz	Friction torque (at 20°C), max.	0.01 Nm
Switching time (10 ... 90 %)	= 200 ns	Starting torque (at 20°C), max.	0.01 Nm
	Rise / fall time t+/t- <=	Net weight	0.3 kg
Phase relation signal A to B	90°	Speed max.	
Edge clearance at 300 kHz	0.45 µs	Max. permissible speed (elec.)	36000 rpm
LED failure monitoring	High impedance driver	Max. permissible speed (mech.)	12000 rpm
Cable length		Load capacity	
To the downstream electronics,	300 m	n = 6000 rpm	
		- Axial	10 N
		- Radial at shaft end	20 N
		n > 6000 rpm	
		- Axial	40 N
		- Radial at shaft end	60 N
Ambient temperature Operation		Shock, max.	
Fixed installation of flange outlet or cable		2 ms	2000 m/s ²
- At Up = 10V ... 30V	-40 ... 100 °C	6 ms	1000 m/s ²
Flexible cable		Degree of protection	
- At Up = 10V ... 30V	-10 ... 100 °C	Without shaft input	IP67
		With shaft input	IP64
Standards			
Compliance with standards	CE, cULus		
EMC class filter	Tested according to the EMC guidelines 89/336/EEC and the rules of the EMC guidelines (generic standards)		