SIEMENS

Data sheet for Incremental encoder

MLFB-Ordering data

6FX2001-2FF00



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	6 mm
Max. power consumption without load	150 mA	Shaft length	10 mm
		Angular acceleration, max.	100000 rad/s ²
Signal level	TTL (RS 422)	Moment of inertia of rotor	0.00000145 kgm²
Resolution	5000 S/R	Vibration (552000 Hz), max.	300 m/s ²
Accuracy	13 rad	Friction torque (at 20°C), max.	0.01 Nm
Sampling frequency, max.	300 kHz	Starting torque (at 20°C), max.	0.01 Nm
Switching time (10 90 %)	<= 50 ns	Net weight	0.3 kg
	Rise / fall time t+/t- <=	Max. admissible speed	
Phase relation signal A to B	90°	Electrical	3600 rpm
Edge clearance at 300 kHz	0.45 μs	Mechanical	12000 rpm
LED failure monitoring	High impedance driver	Load capacity	
Cable length		n = 6000 rpm	
To the downstream electronics, max. 100 m		- Axial	10 N
Ambient temp in operation		- Radial at shaft end	20 N
Fixed installation of flange outlet or cable		n > 6000 rpm	
		- Axial	40 N
- At Up = 10V 30V	40 70 °C	- Radial at shaft end	60 N
Flexible cable		Shock, max.	
		2 ms	2000 m/s ²
- At Up = 10V 30V	10 70 °C	6 ms	1000 m/s²
Standards		Degree of protection	
Compliance with standards	CE, cULus	Without shaft input	IP67
LIVIC CIASS TITLET	Tested according to the EMC guidelines 39/336/EEC and the rules of the EMC guidelines (generic standards)	With shaft input	IP64