



Figure similar

### MLFB-Ordering data

6FX2001-5FD25-1AA0

Client order no. :

Order no. :

Offer no. :

Remarks :

Item no. :

Consignment no. :

Project :

### Electrical data

Operating voltage Up	DC 24 V - 15 % + 20 %
Max. power consumption	43 mA
Interface	DRIVE-CLiQ
Data output	DRIVE-CLiQ
Short-circuit strength	Yes
Transmission rate	100 Mbit/s
Cable length up to the subsequent electronics, max.	100 m
Connection type	Flange socket, Radial
Resolution	36 bit (24 bit Singleturn +12 bit Multiturn)
Incremental track	2048 S/R, 1 Vpp (encoder-internal only)
Accuracy	± 20 "
<b>Code type</b>	
Sampling	Gray
Transmission	DRIVE-CLiQ

### Ambient temperature

During operation -30 ... 100 °C

### Standards

Compliance with standards	CE, cULus
EMC class filter	Tested to DIN EN 50081 and EN 50082

### Mechanical data

Shaft version	Solid shaft
Shaft diameter	6 mm
Shaft length	10 mm
Angular acceleration, max.	100000 rad/s <sup>2</sup>
Moment of inertia of rotor	0.00000290 kgm <sup>2</sup>
Vibration (55...2000 Hz), max.	300 m/s <sup>2</sup>
Friction torque (at 20°C)	≤ 0.01 Nm
Starting torque (at 20°C)	≤ 0.01 Nm
Net weight	0.3 kg
<b>Max. admissible speed</b>	
Electrical	14000 rpm
Mechanical	12000 rpm
<b>Load capacity</b>	
n = 6000 rpm	
- Axial	10 N
- Radial at shaft end	20 N
n > 6000 rpm	
- Axial	40 N
- Radial at shaft end	60 N
<b>Shock, max.</b>	
6 ms	2000 m/s <sup>2</sup>
<b>Degree of protection</b>	
Without shaft input	IP67
With shaft input	IP64