



Figure similar

MLFB-Ordering data

6FX2001-5FD25-0AA1

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	325 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	DRIVE-CLiQ connector, Radial
Resolution	34 bit (22 bit single-turn + 12 bit multi-turn)
Incremental track	2048 S/R, 1 Vpp (encoder-internal only)
Accuracy	± 36 "

Code type

Sampling	Gray
Transmission	DRIVE-CLiQ

Parameterizability

Counting direction	Yes
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Ambient temperature

During operation	-20 ... 100 °C
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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 ²
Moment of inertia of rotor	0.00000190 kgm ²
Vibration (55...2000 Hz), max.	100 m/s ²
Friction torque (at 20°C)	≤ 0.01 Nm
Starting torque (at 20°C)	≤ 0.01 Nm

Net weight	0.5 kg
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Max. admissible speed

Electrical	14000 rpm
Mechanical	10000 rpm

Load capacity

n = 6000 rpm	
- Axial	10 N
- Radial at shaft end	20 N
n > 6000 rpm	
- Axial	40 N
- Radial at shaft end	60 N

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