

Data sheet for Absolute encoder

Article No. : 6FX2001-5QD25-1AA0



Figure similar

Client order no. :
Order no. :
Offer no. :
Remarks :

Item no. :
Consignment no. :
Project :

Electrical data

Operating voltage Up	DC 24 V +- 20%
Current consumption, approx.	43 mA
Interface	DRIVE-CLiQ
Data output	DRIVE-CLiQ
Short-circuit strength	Yes
Cable length up to the subsequent electronics, max.	100 m
Connection	M12 DRIVE-CLiQ connector, Radial
Resolution	36 bit
Incremental track	2048 S/R, 1 Vpp (encoder-internal only)
Code type	
Sampling	Gray
Transmission	DRIVE-CLiQ
Accuracy	± 20
Friction torque (at 20°C)	≤ .01
Starting torque (at 20°C)	≤ .01

Mechanical data

Speed max.	
Electrical	14,000 rpm
Mechanical	12,000 rpm
Load capacity	
n ≤ 6000 rpm	
- Axial	40 N
- Radial at shaft end	60 N
n > 6000 rpm	
- Axial	10 N
- Radial at shaft end	20 N
Shaft diameter	10 mm
Shaft length	20 mm
Angular acceleration, max.	100,000 rad/s ²
Rotor moment of inertia	0.0000029 kgm ²

Vibration and shock

Vibration (55...2000 Hz) according to EN 60068-2-6, max	300 m/s ²
6 ms according to EN 60068-2-27, max	2,000 m/s ²

Degree of protection

At housing	IP67
At shaft input	IP64
Net weight	0.35 kg

Ambient temperature

During operation	-30 ... 100 °C
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Standards

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