SIEMENS

Data sheet for Absolute encoder

Article No. : 6FX2001-5WD25-1AA0



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	12 mm
Shaft length	24 mm
Angular acceleration, max.	100,000 rad/s²
Vibration and shock	
Vibration (55...2000 Hz) according to EN 60068-2-6, max	150 m/s²
6 ms according to EN 60068-2-27, max	1,000 m/s²
Degree of protection	
At housing	IP67
At shaft input	IP64
Net weight	0.35 kg

Ambient temperature	
During operation	-30 ... 100 °C

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