SIEMENS

Data sheet for Absolute encoder



Figure similar

MLFB-Ordering data **6FX2001-5QD25-1AA0**

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 "

Code type

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	10 mm
Shaft length	20 mm
Angular acceleration, max.	100000 rad/s²
Moment of inertia of rotor	0.00000290 kgm²
Vibration (55...2000 Hz), max.	300 m/s²
Friction torque (at 20°C)	<= 0.01 Nm
Starting torque (at 20°C)	<= 0.01 Nm
Net weight	0.3 kg

Max. admissible speed

Electrical	14000 rpm
Mechanical	12000 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.

6 ms	2000 m/s²

Degree of protection

Without shaft input	IP67
With shaft input	IP64

Technical data are subject to change! There may be discrepancies between calculated and rating plate values.