SIEMENS

Data sheet for Absolute encoder



Figure similar

MLFB-Ordering data **6FX2001-5WN13**

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

Item no. :
Consignment no. :
Project :

Electrical data

Operating voltage Up	DC 10 ... 30 V
Max. power consumption	130 ... 400 mA (< 4 W)
Interface	PROFINET IO with RT / IRT
Clock input	2 ports IRT
Data output	2 ports IRT
Short-circuit strength	Yes
Transmission rate	100 Mbit/s
LED for diagnostics	Yes (green/red/yellow)
Connection type	2 x connector M12, 4-pin for PROFINET / EtherNet/IP Ports, 1 x connector M12, 4-pin for operating voltageRadial
Resolution	13 bit (8192 increments)
Telegram	According to PNO cncoder profile V4.1 Class1, Class 2, Class 3, Class 4, standard telegrams 81/82/83/84, Siemens telegram 860

Code type

Sampling	Gray
Transmission	binary, PROFINET / EtherNet/IP

Cable length up to the subsequent electronics, max.

Up to 12 Mbit/s	100 m

Mechanical data

Shaft version	Hollow shaft
Shaft diameter	15 mm (8 mm / 10 mm / 12 mm with reducing sleeves)
Angular acceleration, max.	100000 rad/s²
Moment of inertia of rotor	0.00000301 kgm²
Vibration (55...2000 Hz), max.	100 m/s²
Friction torque (at 20°C)	<= 0.01 Nm
Starting torque (at 20°C)	<= 0.01 Nm
Net weight	0.4 kg

Speed max.

With ± 1 bit accuracy	5800 rpm
Max. permissible speed (mech.)	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	110 N

Shock, max.

2 ms	2000 m/s²
6 ms	1000 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.

SIEMENS

Data sheet for Absolute encoder

MLFB-Ordering data **6FX2001-5WN13**



Figure similar

Electrical data

Parameterizability

Preset	Yes
Counting direction	Yes
Resolution per revolution	Any 1 ... 8192
Total resolution	Any 1 ... 8192
Speed signal	Yes
Limit switch	No
Clock synchronism	Yes
Slave-to-slave communication	No
Accuracy	± 79 " with 8192 increments (± 1/2 LSB)

Ambient temperature

During operation	-40 ... 85 °C

Standards

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