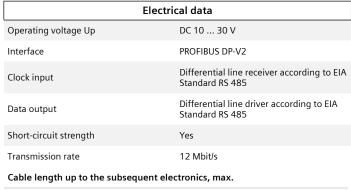
SIEMENS

Data sheet for Absolute encoder

Article No.: 6FX2001-5QP24

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



Up to 93.75 kb	it/s	1,200 m
Up to 1.5 Mbit	tls	200 m
Connection		Terminal block with address selector switch and bus terminating resistor with removable cover and cable glands (3 units) , Radial
Resolution		27 bit
Telegram		According to PNO cncoder profile V4.1 Class1, Class 2, Class 3, standard telegram 81

Code type

Sampling	Gray
Transmission	binary, PROFIBUS

Parameterizability

Turumeterizability	
Preset	Yes
Counting direction	Yes
Resolution per revolution	Any 1 8192
Total resolution	Any 1 8192 x 16384
Speed signal	Yes
Limit switch	Yes
Clock synchronism	Yes
Slave-to-slave communication	Yes
Accuracy	± 79 " (± 1 LSB at 8192 steps)
Friction torque (at 20°C)	≤ 0.01
Starting torque (at 20°C)	≤ 0.01

Mechanical data		
Speed max.		
With ± 1 LSB accuracy	5,800 rpm	
Mechanical	6,000 rpm	



Item no. : Consignment no. : Project :

Load capacity

n ≤ 6000 rpm	
- Axial	40 N
- Radial at shaft end	110 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	0.0000019 kgm²
Vibration and shock	
Vibration (552000 Hz) according to EN 60068-2-6, max	100 m/s²
6 ms according to EN 60068-2-27, max	1,000 m/s²
Degree of protection	
Without shaft input	IP67
With shaft input	IP64

Ambient temperature		
During operation	-40 85 °C	

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