

INOX Shaft Encoder COV582 EIP/ETC/EPN



EtherNet/IP

EtherCAT

PROFINET



Ref.: K-COV58_2-__-1

11.04.2023

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Advantages

- Acid-resistant
- Delivery completely mounted
- High resolution system
- INOX 1.4404, AISI 316L
- INOX Enclosure
- Minimalistic surface
- Salt water resistant
- Shipping, paper industry

General Data

Nominal voltage	
- Specific value	24 VDC
- Limit values, min/max	10/30 VDC
Nominal current, typically	
- Specific value	90 mA EtherNet/IP version
- Specific value	100 mA PROFINET IO version
- Specific value	120 mA EtherCAT version
- Condition	unloaded
Supply	
- In case of UL / CSA approval	according to NEC Class 2
Device design	
- Type	Multi-Turn
Total resolution	<= 36 Bit
Number of steps per revolution	<= 262144
Number of revolutions	<= 256000
EtherCAT - Interface	
- EtherCAT	IEC 61158-1-6, IEC 61784-2

Subject to change.

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General Data continuation

- Physical Layer	Fast Ethernet, ISO/IEC 8802-3
- Device profile	CoE, CiA DS-406
EtherNet/IP™ - Interface	
- EtherNet/IP™	IEC 61784-1 CP 2/2, IEC 61158
- Physical Layer	Fast Ethernet, ISO/IEC 8802-3
- Device profile	Encoder Device Profile 0x22
PROFINET IO - Interface	
- PROFINET IO – Device	IEC 61158, IEC 61784-1
- Physical Layer	Fast Ethernet, ISO/IEC 8802-3
- PROFINET-Specification	V2.3
- Conformance Class	B, C
- Real-Time-Classes	Class 1, 2 (RT), Class 3 (IRT)
- Media Redundancy Protocol, MRP	yes, is supported
- PNO Encoder-Profile	Class 3 and 4, V4.1/V4.2
- Fast Start-Up (FSU)	3-times faster start-up
Transmission rate	
- Specific value	100 MBit/s
Parameter/Function, changeable	Adjustment - Parameter
	Scaling parameter
	Counting direction
	Velocity parameter
Type of parametrization	programmable
Programming - Tool	Fieldbus-Device
Housing - Material	
- Stainless steel 1.4404	X2CrNiMo17-12-2
Maximum Speed, mechanically	<= 6000 1/min
Shaft load, axial/radial	<= 50 N, <= 100 N
Bearing life time	>= 3.9E+10 revolutions
Bearing life time - Parameter	
- Speed	6000 1/min
- Operating temperature	60 °C
- Shaft load, axial/radial	= 60 %
Point of origin, shaft load	Mounting flange + 10 mm
Shaft type	
- Shaft diameter [mm]	10
Angular acceleration	<= 10E+4 rad/s²
Moment of inertia, typically	1.3E-6 kg m²
Start-up torque, 20 °C	10 Ncm
Mass, typically	0.5 kg

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Environmental conditions

Vibration	DIN EN 60068-2-6
- Specific value	$\leq 100 \text{ m/s}^2$
- Sine	50...2000 Hz
Shock	DIN EN 60068-2-27
- Specific value	$\leq 1000 \text{ m/s}^2$
- Half sine	11 ms
Immunity to disturbance	DIN EN 61000-6-2
Transient emissions	DIN EN 61000-6-3
Working temperature	
- Standard	-20...+75 °C
- Optional	-40...+85 °C;
Storage temperature, dry	-30...+85 °C
Relative humidity	98 %, non condensing
Protection class	
- Standard	IP67
Resistance	Stainless steel 1.4404
- against salt (seawater)	DIN EN IEC 60068-2-52
- Test method	Test method 1
- excluded are	Attachment parts

Subject to change.

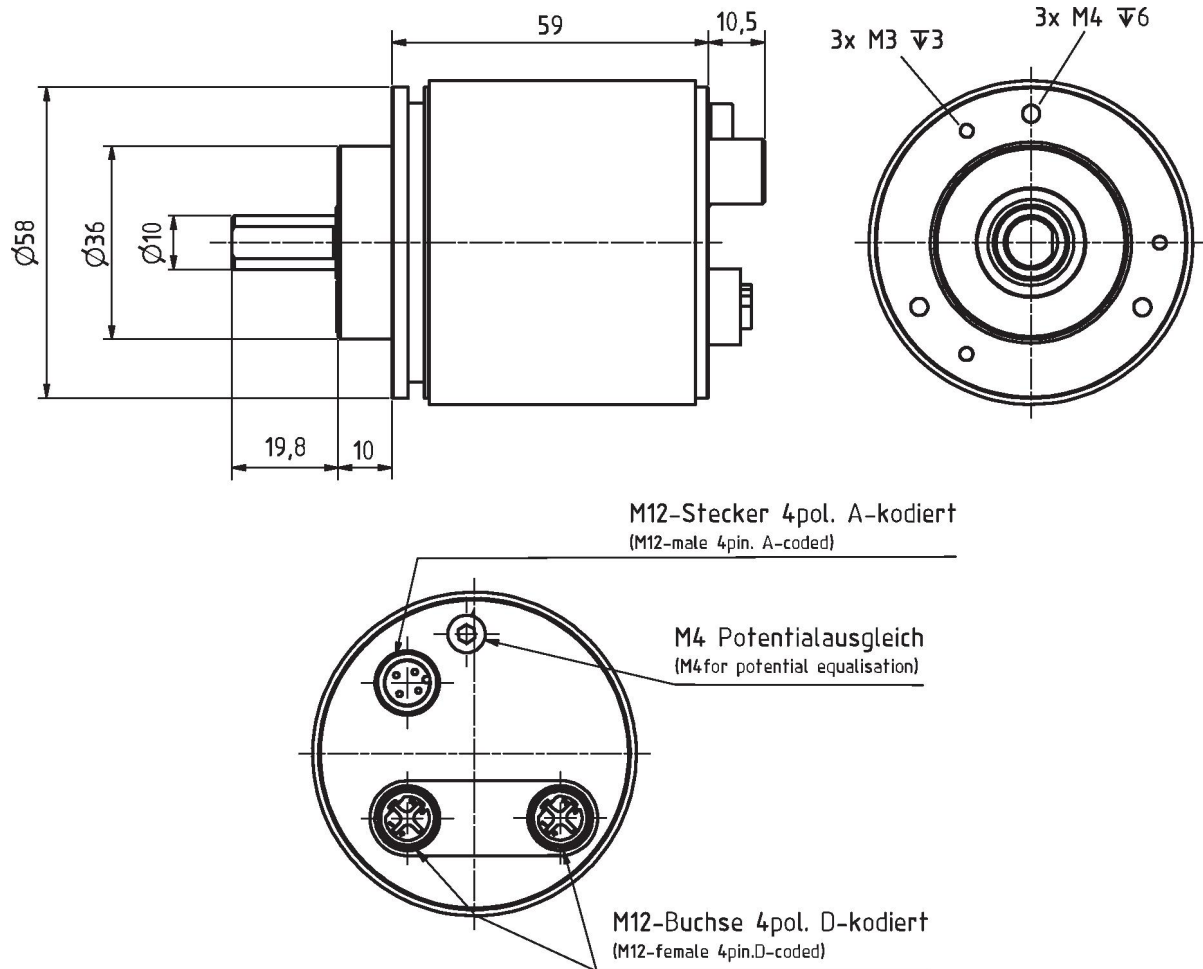
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Dimensional drawing



Fehlende Abmaße, bzw. abweichendes Design, siehe Art.-Nr. bezogene Zeichnung /
Missing dimensions, or deviating design, see art. no. related drawing

Subject to change.