

Absolute-Encoder COV58 - EtherNet/IP™



Ref.: K-COV58-EIP-1

24.06.2021

010102005803030201

Advantages

— New series available

General Data

Nominal voltage	
- Specific value	24 VDC
- Limit values, min/max	11/27 VDC
Nominal current, typically	
- Specific value	120 mA
- Condition	unloaded
Supply	
- In case of UL / CSA approval	according to NEC Class 2
Device design	
- Type	Single-/Multi-Turn
Total resolution	<= 36 Bit
Number of steps per revolution	<= 262144
Number of revolutions	<= 256000
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
Transmission rate	
- Specific value	100 MBit/s
Parameter/Function, changeable	Resolution
	Operating range
	Preset parameter

Subject to change.

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General Data continuation

	Temperature parameter
	Counting direction
	Velocity parameter
Type of parametrization	programmable
Programming - Tool	Fieldbus-Device
Maximum Speed, mechanically	≤ 12000 1/min
Shaft load, axial/radial	≤ 50 N, ≤ 100 N
Bearing life time	$\geq 3.9E+10$ 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]	6
- Shaft diameter [mm]	8
- Shaft diameter [mm]	10
- Shaft diameter [mm]	12
- Shaft diameter ["]	3/8
Angular acceleration	$\leq 10E+4$ rad/s ²
Moment of inertia, typically	2.5E-6 kg m ²
Start-up torque, 20 °C	2 Ncm
Mass, typically	0.3...0.5 kg

Environmental conditions

Vibration	
- Specific value	≤ 100 m/s ²
- Sine	50...2000 Hz
Shock	
- Specific value	≤ 1000 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	0...+60 °C
- Optional	-20...+70 °C;

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Environmental conditions continuation

Storage temperature, dry	-30...+80 °C
Relative humidity	98 %, non condensing
Protection class - Standard	IP65

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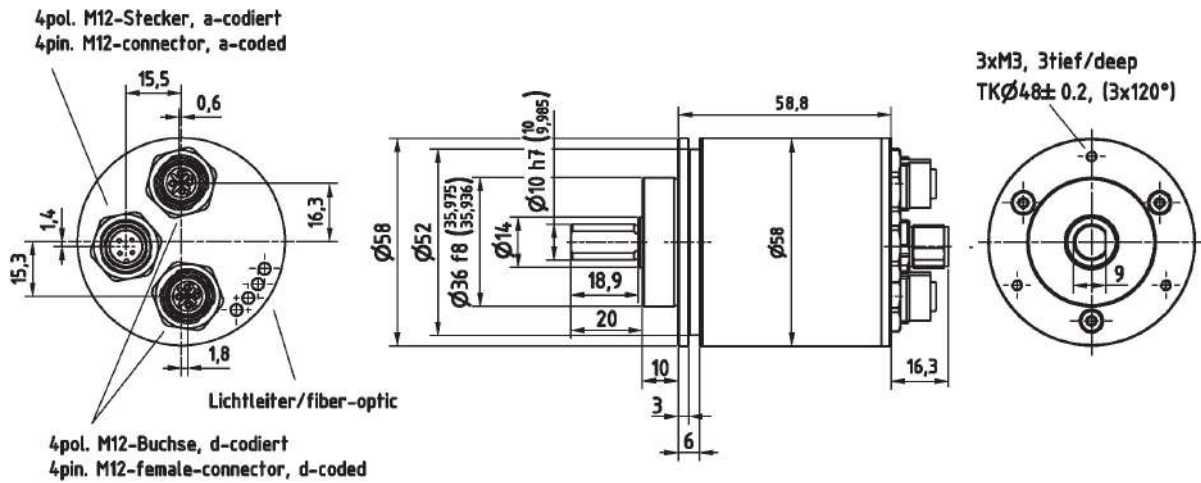
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Dimensional drawing



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