

Absolute-Encoder COV58 - ETC

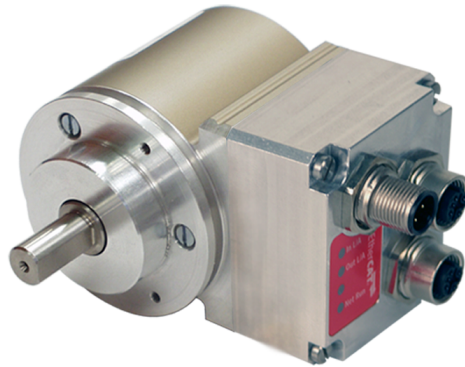
Ref.: K-COV58-ETC-1

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Advantages

- _ Customer-specific solutions
- _ Flexible programming
- _ Further interfaces available
- _ High resolution system
- _ Modular mechanical design
- _ Modular product line
- _ Short lead times



General Data

Supply	
- Supply voltage	11...27 VDC
Current consumption no load	<= 300 mA
Device design	
- Type	Single-/Multi-Turn
Total resolution	<= 36 Bit
Number of steps per revolution	<= 262144
Number of revolutions	<= 256000
Output capacity	<= 31 Bit
EtherCAT - Interface	
- EtherCAT	IEC 61158-1-6, IEC 61784-2
- Physical Layer	Fast Ethernet, ISO/IEC 8802-3
- Device profile	CoE, CiA DS-406
Transmission rate	
- Specific value	100 MBit/s
Cycle time	100 µs
Parameter/Function, changeable	Resolution
	Preset parameter
	Counting direction
Type of parametrization	programmable
Programming - Tool	Fieldbus-Device
Maximum Speed, mechanically	<= 12000 1/min

Subject to change.

TR-Electronic GmbH
 Eglisshalde 6
 78647 Trossingen
 Tel. +49 (0) 7425 228-0
 info@tr-electronic.de
www.tr-electronic.de

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General Data continuation

Shaft load, axial/radial	$\leq 10 \text{ N}, \leq 20 \text{ N}$
Bearing life time	$\geq 3.9\text{E}+10$ revolutions
Bearing life time - Parameter	
- Speed	6000 1/min
- Operating temperature	60 °C
- Shaft load, axial/radial	$\leq 5 \text{ N}, \leq 10 \text{ N}$
Point of origin, shaft load	at the shaft end
Angular acceleration	$\leq 10\text{E}+4 \text{ rad/s}^2$
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	$\leq 100 \text{ m/s}^2$
- Sine	50...2000 Hz
Shock	
- 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	0...+60 °C
- Optional	-20...+70 °C;
Storage temperature, dry	-30...+80 °C
Relative humidity	98 %, non condensing
Protection class	
- Standard	IP65

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