

# Absolute-Encoder CMV58 - PB

Ref.: K-CMV58-PB-1

18.11.2013

010102005801020201

## Advantages

- \_ Economical alternative
- \_ Further interfaces available
- \_ Rugged standard solution
- \_ Short lead times
- \_ Small construction



## General Data

Supply	
- Supply voltage	11...27 VDC
Current consumption no load	<= 150 mA
Device design	
- Type	Single-/Multi-Turn
Total resolution	<= 23 Bit
Number of steps per revolution	<= 2048
Number of revolutions	<= 4096
Accuracy	± 1,0 °
PROFIBUS - Interface	
- PROFIBUS-DP V0	IEC 61158, IEC 61784
- PNO Encoder-Profile	Class 1 and 2
Transmission rate	
- Specific value	9.6...12000 kbit/s
Parameter/Function, changeable	Resolution
	Output code
	Limit switch
	Preset parameter
	Adjustment - Parameter
	Counting direction
	Velocity parameter
Type of parametrization	programmable

Subject to change.

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### General Data continuation

Prgramming - Tool	Fieldbus-Device
External inputs	
- Preset	electronic adjustment
- Logic level	"0" < +2V, "1" = Supply
Maximum Speed, mechanically	<= 12000 1/min
Shaft load, axial/radial	<= 10 N, <= 20 N
Bearing life time	>= 3.9E+10 revolutions
Bearing life time - Parameter	
- Speed	6000 1/min
- Operating temperature	60 °C
- Shaft load, axial/radial	<= 5 N, <= 10 N
Point of origin, shaft load	at the shaft end
Angular acceleration	<= 10E+4 rad/s <sup>2</sup>
Moment of inertia, typically	1.3E-6 kg m <sup>2</sup>
Start-up torque, 20 °C	2 Ncm
Mass, typically	0.3 kg

### Environmental conditions

Vibration	
- Specific value	<= 100 m/s <sup>2</sup>
- Sine	50...2000 Hz
Shock	
- Specific value	<= 1000 m/s <sup>2</sup>
- 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...+85 °C
Relative humidity	98 %, non condensing
Protection class	
- Standard	IP65

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### Suggested products

CMV58M\*4096/4096 PB 36ZB10FL  
2x 5 pol M12

CMV58M-00005

CMV58S\*4096/1 PB 36ZB10FL  
2x 5 pol M12 1x 4 pol M8

CMV58S-00001

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