

**CMA-Series  
RCMC-5000-AO-P**

**Weidmüller Interface GmbH & Co. KG**  
Klingenbergstraße 26  
D-32758 Detmold  
Germany  
Fon: +49 5231 14-0  
Fax: +49 5231 14-292083  
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**Product image****Rogowski coil**

A Rogowski coil is a closed air coil without a ferromagnetic core used for floating potential measurement of AC and pulse currents. Measurement with the Rogowski coil is used widely in technology, as it can be retroactively integrated without separating the primary electric circuit in existing systems. Because this method shows no saturation effect, even the smallest currents and high-frequency harmonics can be measured without loss of accuracy.

**General ordering data**

Type	RCMC-5000-AO-P
Order No.	<a href="#">2593410000</a>
Version	Measuring transducer
GTIN (EAN)	4050118647754
Qty.	1 pc(s).

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**Technical data**
**Dimensions and weights**

Width	23.1 mm	Width (inches)	0.909 inch
Height	100 mm	Height (inches)	3.937 inch
Depth	78 mm	Depth (inches)	3.071 inch
Net weight	58 g		

**Temperatures**

Humidity	5...95 %, no condensation	Operating temperature, max.	70 °C
Operating temperature, min.	-25 °C	Storage temperature, max.	85 °C
Storage temperature, min.	-40 °C	Operating temperature	-25 °C...70 °C
Storage temperature	-40 °C...85 °C		

**Dimensions of live conductors**

Installation location	Indoor use	Type of conductor	Insulated conductor only
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**Technical properties**

Protection degree	IP20
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**Input**

Input measurement range	100 A, 200 A, 300 A, 400 A, 500 A, 600 A, 800 A, 1000 A, 1500 A, 2000 A, 4000 A, 5000 A
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**Output**

Output voltage, note	0...5 V DC, 0...10 V DC, 0...225 mV AC, 0...333 mV AC	Output current	0...20 mA, 4...20 mA
load impedance voltage	≥ 1 kΩ	Load impedance current	≤ 500 Ω

**General data**

Accuracy	< 0.5 % of measuring range	Configuration	Keys and LED display
Current consumption	200 mA typical	Linearity	± 0.1 % typ.
Standard	IEC 61010-1: 2010, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011, IEC 61010-2-030	Temperature coefficient	≤ 0.015 % / °C
Vibration	according to IEC 60721, 3M1	Voltage supply	24 V DC ± 25 %

**Insulation coordination**

EMC standards	UL 61010-1, EN 61326-1:2013	Insulation voltage	1.5 kV AC 1 min.
Pollution severity	2	Standard	IEC 61010-1: 2010, EN 61000-6-2:2005, EN 61000-6-3:2007/A1:2011, IEC 61010-2-030

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# Technical data

### Connection data

Type of connection	PUSH IN
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### Classifications

ETIM 6.0	EC002653	ETIM 7.0	EC002653
eClass 9.0	27-21-01-20	eClass 9.1	27-21-01-20
eClass 10.0	27-21-01-20		

### Approvals

ROHS	Conform
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### Downloads

Approval/Certificate/Document of Conformity	<a href="#">Declaration of Conformity</a>
User Documentation	<a href="#">Instruction sheet</a>

**Data sheet**

**CMA-Series  
RCMC-5000-AO-P**

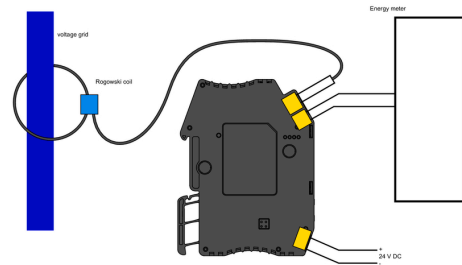
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**Drawings**

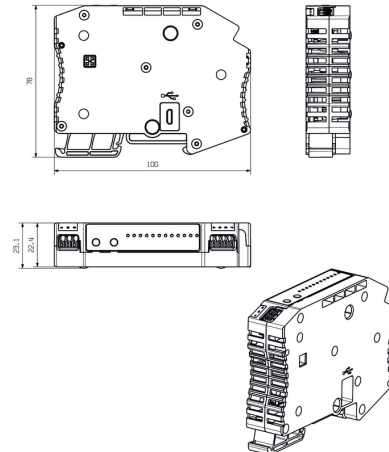
**Application**



use with Rogowski coil



**Control panel**



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**Accessories****Rogowski coils****Rogowski coil**

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**General ordering data**

Type	RCMA-B22-D175-4.5	Version
Order No.	<a href="#">2593360000</a>	Rogowski coil, Diameter: 175 mm, Cable length: 4.5 m
GTIN (EAN)	4050118647785	
Qty.	1 pc(s).	
Type	RCMA-B22-D175-1.5	Version
Order No.	<a href="#">2593390000</a>	Rogowski coil, Diameter: 175 mm, Cable length: 1.5 m
GTIN (EAN)	4050118647792	
Qty.	1 pc(s).	
Type	RCMA-B22-D125-1.5	Version
Order No.	<a href="#">2593380000</a>	Rogowski coil, Diameter: 125 mm, Cable length: 1.5 m
GTIN (EAN)	4050118647808	
Qty.	1 pc(s).	
Type	RCMA-B22-D70-1.5	Version
Order No.	<a href="#">2593370000</a>	Rogowski coil, Diameter: 70 mm, Cable length: 1.5 m
GTIN (EAN)	4050118647815	
Qty.	1 pc(s).	
Type	RCMA-B22-D70-4.5	Version
Order No.	<a href="#">2593340000</a>	Rogowski coil, Diameter: 70 mm, Cable length: 4.5 m
GTIN (EAN)	4050118647761	
Qty.	1 pc(s).	
Type	RCMA-B22-D125-4.5	Version
Order No.	<a href="#">2593350000</a>	Rogowski coil, Diameter: 125 mm, Cable length: 4.5 m
GTIN (EAN)	4050118647778	
Qty.	1 pc(s).	