

RCMC-5000-AO-P**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com

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

Version	Measuring transducer, every Rogowski coil, 100... 5000 A, Output : analogue V / mA
Order No.	2593410000
Type	RCMC-5000-AO-P
GTIN (EAN)	4050118647754
Qty.	1 pc(s).

Creation date September 18, 2022 12:45:09 AM CEST

Catalogue status 09.09.2022 / We reserve the right to make technical changes.

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Technical data

Dimensions and weights

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

Temperatures

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

Electrical attributes

Frequency band	50...60 Hz	Secondary voltage	22,5 mV (@ 50Hz I _{primary} = 1 kA)
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Technical data

Pollution severity	2	Protection degree	IP20
Type of mounting	DIN rail	Voltage supply	24 V DC ± 25 %

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	Input signal	every Weidmüller Rogowski coil RCMA-B22-D...
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Output

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

General data

Accuracy	< 0.5 % of measuring range	Configuration	Keys and LED display
Current consumption	200 mA typical	Galvanic isolation	between input/ output/ supply
Linearity		Standard	EN 61010-1: 2010, EN 61010-2-030:2010, EN 61326-1: 2013, EN 61000-6-2:2005, EN 61000-6-3:2007
Temperature coefficient	± 0.1 % typ.	Type of connection	PUSH IN
Vibration	according to IEC 60721, 3M1	Voltage supply	24 V DC ± 25 %

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Insulation coordination

Galvanic isolation	between input/output/ supply	Insulation voltage	1.5 kV AC 1 min.
Pollution severity	2	Standard	EN 61010-1: 2010, EN 61010-2-030:2010, EN 61326-1: 2013, EN 61000-6-2:2005, EN 61000-6-3:2007

Connection data

Type of connection	PUSH IN
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Classifications

ETIM 6.0	EC002653	ETIM 7.0	EC002653
ETIM 8.0	EC002653	ECLASS 9.0	27-21-01-20
ECLASS 9.1	27-21-01-20	ECLASS 10.0	27-21-01-20
ECLASS 11.0	27-21-01-20	ECLASS 12.0	27-21-01-20

Important note

Product information	<p>The RCMC-5000-XX measuring transducer is designed for electronic measurement of AC current. The RCMC-5000-XX measuring transducer may only be used together with a Weidmüller RCMA-B22-DXX Rogowski coil.</p> <p>Functional description The RCMC-5000-XX measuring transducer converts the signal from the Rogowski coil into an analogue output signal with high phase fidelity. The device is configured using two front buttons. LEDs display the operating and configuration status.</p> <p>Features</p> <ul style="list-style-type: none"> • 12 selectable current measuring ranges • USB connection: exclusively for power supply!
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Approvals

Approvals



ROHS	Conform
UL File Number Search	UL Website
Certificate No. (UL)	E469563

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
User Documentation	Instruction sheet
Catalogues	Catalogues in PDF-format