RCMC-5000-1A-P

Weidmüller Interface GmbH & Co. KG
Klingenbergstraße 26
D-32758 Detmold
Germany

www.weidmueller.com

Product image

RoHS COMPLIANT

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 Ragowski 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 : 0...1 A AC
Order No.	2593400000
Type	RCMC-5000-1A-P
GTIN (EAN)	4050118647822
Qty.	1 pc(s).

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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	100 g		

Temperatures

Storage temperature	-40 °C...85 °C	Operating temperature	-25 °C...65 °C
Humidity	5...95 %, no condensation		

Dimensions of live conductors

Type of conductor	Insulated conductor only	Installation location	Indoor use

Electrical attributes

Frequency band	50...60 Hz	Primary current	5,000 A
Secondary voltage	22,5 mV (@ 50Hz $I_{primary}$ = 1 kA)		

Technical properties

Protection degree	IP20

Input

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

Output

Load impedance current	≤ 1,5 Ω	Output current	0...1 A AC

General data

Accuracy	<0.5 % of measuring range	Configuration	Keys and LED display
Current consumption	100 mA @24V	Galvanic isolation	between input / output / supply
Linearity	± 0.1 % typ.	Protection degree	IP20
Standard	EN 61000-6-2, 3, 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	≤ 0.015 % / °C
Voltage supply	24 V DC ± 25 %		

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Technical data

Insulation coordination

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

Classifications

ETIM 6.0	EC002475	ETIM 7.0	EC002475
ETIM 8.0	EC002475	ETIM 9.0	EC002475
ECLASS 9.0	27-21-01-23	ECLASS 9.1	27-21-01-23
ECLASS 10.0	27-21-01-23	ECLASS 11.0	27-21-01-23
ECLASS 12.0	27-21-01-23	ECLASS 13.0	27-21-01-23

Important note

Product information	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. 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. Features • 12 selectable current measuring ranges • USB connection: exclusively for power supply!

Approvals

Approvals	
ROHS	Conform
UL File Number Search	UL Website
Certificate no. (cULus)	E469563

Downloads

Approval/Certificate/Document of Conformity	Declaration of Conformity
User Documentation	Instruction sheet Application Note for cabinet installation
Catalogues	Catalogues in PDF-format

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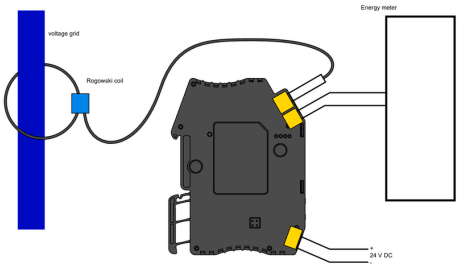
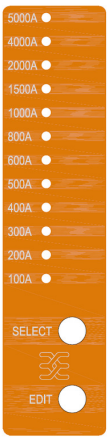
Drawings

Application

use with Rogowski coil





Dimensioned drawing