

RCMA-B22-D175-4.5**Weidmüller Interface GmbH & Co. KG**

Klingenbergstraße 26

D-32758 Detmold

Germany

www.weidmueller.com**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	Rogowski coil, Diameter: 175 mm, Cable length: 4.5 m
Order No.	2593360000
Type	RCMA-B22-D175-4.5
GTIN (EAN)	4050118647785
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Diameter	175 mm	Net weight	273 g
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Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-40 °C...80 °C
Humidity at operating temperature	5 - 90 %, no condensation		

Electrical attributes

Frequency band	50...60 Hz	Nominal turns ratio	44.44 kA/V
Phase shift	0.004 °	Primary conductor temperature	105 °C
Primary current	5,000 A	Secondary voltage	22,5 mV (@ 50Hz I _{primary} = 1 kA), 30 V (max)
Tolerance class	0,5		

Technical data

Protection degree	Standards	IEC 61010-1: 2010, UL 61010-1, IEC 61869-1: 2007, IEC 61869-2: 2012, IEC 61869-6: 2016, IEC 61869-10: 2017
IP57		

Technical properties

Cable diameter	6.1 mm	Cable length	4.5 m
Coil resistance	105 Ω	Protection degree	IP57

General data

Linearity	Standard	IEC 61010-1: 2010, IEC 61869-1: 2007, IEC 61869-2: 2012, IEC 61869-6: 2016, IEC 61869-10: 2017, UL 61010-1
no linearity error		

Insulation coordination

Clearance & creepage distances	>16 mm	Impulse withstand voltage	12.8 kV (1.2/50 ms)
Insulation voltage	7.4 kV _{RMS} (50 Hz, 1 min)	Partial discharge voltage	1.65 kV _{Effective} (q _m <10 pC, IEC 60664-1)
Standard	IEC 61010-1: 2010, IEC 61869-1: 2007, IEC 61869-2: 2012, IEC 61869-6: 2016, IEC 61869-10: 2017, UL 61010-1	Tolerance class	0,5
Tracking resistance (CTI)	600		

Classifications

ETIM 6.0	EC002475	ETIM 7.0	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

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Product information

The Rogowski coil **RCMA-B22-DXX** is intended for the electronic measurement of alternating current. The Rogowski coil must only be used in conjunction with a Weidmüller transducer RCMC-5000-XX.

Functional description

The primary circuit (power circuit) and the secondary circuit (measurement circuit) are galvanically isolated by the Rogowski coil.

As there is no saturation effect, currents can be measured over a wide primary current range without any losses in accuracy.

Features

- Conductor diameter of the measuring coil: 6.1 mm
- Housing tabs for attachment with cable ties
- Sealable bayonet fastening

Approvals

Approvals



ROHS

Conform

UL File Number Search

E469563

Downloads

Approval/Certificate/Document of Conformity

[Declaration of Conformity](#)

User Documentation

[Instruction sheet](#)

Brochure/Catalogue

[Catalogues in PDF-format](#)

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Drawings

Dimensioned drawing

