

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, 100...5000 A, Output : Pulse
Order No.	2593360000
Type	RCMA-B22-D175-4.5
GTIN (EAN)	4050118647785
Qty.	1 Stück

Erstellungs-Datum May 25, 2023 3:09:03 PM CEST

Katalogstand 12.05.2023 / Technische Änderungen vorbehalten

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Dimensions and weights

Diameter	175 mm	Net weight	284 g
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Temperatures

Storage temperature	-40 °C...80 °C	Operating temperature	-40 °C...80 °C
Operating temperature, min.	-40 °C	Operating temperature, max.	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 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 and 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
ETIM 8.0	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

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Important note

Product information	<p>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.</p> <p>Functional description</p> <p>The primary circuit (power circuit) and the secondary circuit (measurement circuit) are galvanically isolated by the Rogowski coil.</p> <p>As there is no saturation effect, currents can be measured over a wide primary current range without any losses in accuracy.</p> <p>Features</p> <ul style="list-style-type: none"> • Conductor diameter of the measuring coil: 6.1 mm • Housing tabs for attachment with cable ties • Sealable bayonet fastening
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Approvals

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

Downloads

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

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Zeichnungen

Dimensioned drawing

