RCMA-B22-D125-4.5

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 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	Rogowski coil, Diameter: 125 mm, Cable length: 4.5 m, 100...5000 A, Output : Pulse, mV signal
Order No.	2593350000
Type	RCMA-B22-D125-4.5
GTIN (EAN)	4050118647778
Qty.	1 pc(s).

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Technical data

Dimensions and weights

Diameter	125 mm	Net weight	270 g

Temperatures

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

Dimensions of live conductors

Type of conductor	Insulated conductor only	Round conductor	125 mm
Installation location	Indoor use		

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	81 Ω	Protection degree	IP57

Input

Outer cable diameter, max.	125 mm

General data

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

Insulation coordination

Impulse withstand voltage	12.8 kV (1.2/50 ms)	Insulation voltage	7.4 kV_{RMS}(50 Hz, 1 min)
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	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

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Important note

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	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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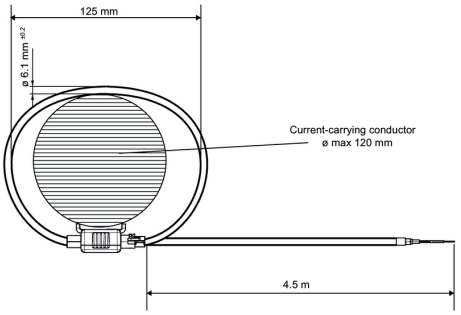
Drawings

Dimensioned drawing



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Accessories

Rogowski coils

Rogowski coil

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General ordering data

Type	RCMC-5000-1A-P	Version
Order No.	2593400000	Measuring transducer, every Rogowski coil, 100...5000 A, Output : 0...
GTIN (EAN)	4050118647822	1 A AC
Qty.	1 pc(s).	
Type	RCMC-5000-AO-P	Version
Order No.	2593410000	Measuring transducer, every Rogowski coil, 100...5000 A, Output :
GTIN (EAN)	4050118647754	analogue V / mA
Qty.	1 pc(s).	