

**RCMA-B22-D125-4.5**

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

www.weidmueller.com



Rogowski coilA 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: 125 mm, Cable length: 4.5 m, 100...5000 A, Output : Pulse, mV signal
Order No.	<a href="#">2593350000</a>
Type	RCMA-B22-D125-4.5
GTIN (EAN)	4050118647778
Qty.	1 items

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**Technical data**

**Approvals**

Approvals



ROHS	Conform
UL File Number Search	<a href="#">UL Website</a>
Certificate No. (cURus)	E469563

**Dimensions and weights**

Diameter	125 mm	Net weight	270 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		

**Environmental Product Compliance**

RoHS Compliance Status	Compliant without exemption
REACH SVHC	No SVHC above 0.1 wt%

**Dimensions of live conductors**

Type of conductor	Conductor rail, Round conductor, Non-insulated conductors	Round conductor	125.00 mm
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**Electrical attributes**

Measurement error	<± 0.5% (of measuring range limit)	Tolerance class	0,5
Nominal turns ratio	44.44 kA/V	Primary conductor temperature	105 °C
Phase shift	0.004 °	Frequency band	50...60 Hz
Secondary voltage	22,5 mV (@ 50Hz Iprimary = 1 kA), 30 V (max)	Primary current	5000 A

**Technical properties**

Cable length	4.5 m	Protection degree	IP57
Cable diameter	6.1 mm	Coil resistance	81 Ω

**General data**

Standard	IEC 61010-1: 2010, IEC 61869-1: 2007, IEC 61869-2: 2012, IEC 61869-6: 2016, IEC 61869-10: 2017, UL 61010-1	Protection degree	IP57
Linearity	no linearity error	Configuration	none

**Insulation coordination**

Standard	IEC 61010-1: 2010, IEC 61869-1: 2007,	Impulse withstand voltage	12.8 kV (1.2/50 ms)
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## Technical data

	IEC 61869-2: 2012, IEC 61869-6: 2016, IEC 61869-10: 2017, UL 61010-1		
Surge voltage category	III	Pollution severity	2
Tolerance class	0,5	Insulation voltage	7.4 kVRMS(50 Hz, 1 min)
Rated insulation voltage	1000V reinforced insulation according to IEC 61010-1, CAT III, PD2, 1000V basic insulation according to IEC 61010-1, CAT IV, PD2, 600V reinforced insulation in accordance with IEC 61010-1, CAT IV, PD2	Tracking resistance (CTI)	600

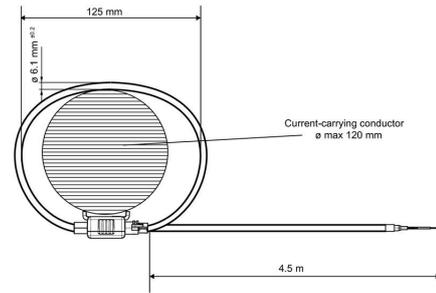
## Part description

Product description	<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 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.</p> <p>Features</p> <ul style="list-style-type: none"> <li>• Conductor diameter of the measuring coil: 6.1 mm</li> <li>• Housing tabs for attachment with cable ties</li> <li>• Sealable bayonet fastening</li> </ul>
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## Classifications

ETIM 8.0	EC002475	ETIM 9.0	EC002475
ETIM 10.0	EC002475	ECLASS 14.0	27-21-01-23
ECLASS 15.0	27-21-01-23		

**Dimensioned drawing**



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## Accessories

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## Rogowski coils



Rogowski coilA 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

Type	RCMC-5000-AO-P	Version	
Order No.	<a href="#">2593410000</a>	Measuring transducer, every Rogowski coil, 100...5000 A, Output :	
GTIN (EAN)	4050118647754	analogue V / mA	
Qty.	1 ST		
Type	RCMC-5000-1A-P	Version	
Order No.	<a href="#">2593400000</a>	Measuring transducer, every Rogowski coil, 100...5000 A, Output :	
GTIN (EAN)	4050118647822	0...1 A AC	
Qty.	1 ST		