

PACT RCP-D140-10M - Coil

1033482

<https://www.phoenixcontact.com/pc/products/1033482>



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Rogowski coil, The Rogowski coil measures the AC current of rails and power lines.



Commercial data

Item number	1033482
Packing unit	1 pc
Minimum order quantity	1 pc
Product key	CK4A12
Catalog page	Page 219 (C-5-2019)
GTIN	4055626539041
Weight per piece (including packing)	385.6 g
Weight per piece (excluding packing)	372.4 g
Customs tariff number	90309000
Country of origin	IT

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Technical data

Product properties

Product type	Rogowski coil
Insulation characteristics	
Pollution degree	2

Electrical properties

Measuring coil	
Conductor structure signal line	2x 0.22 mm (Signal (tinned))
	1x 0.22 mm (Shielding (tinned))
Insulation	double insulation
Rated insulation voltage	1000 V AC (rms CAT III)
	600 V AC (rms CAT IV)
Test voltage	10.45 kV DC (60 s)
Basic accuracy	<± 0.2 %

General

Converter type	Rogowski coil
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Input data

Frequency	
Designation	Measuring coil
Frequency measuring range	40 Hz ... 20000 Hz
Position error	<± 0.1 % (typical)
Linearity error	< 0.1 %

Current transformers

Converter type	Rogowski coil
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Output data

Signal	
Designation	Measuring coil
Output signal (at 50 Hz)	100 mV (no load, at 1,000 A)
Output voltage (in no-load operation)	$V_{OUT} = M \cdot dI/dt$
Output voltage (sinusoidal, in no-load operation)	100 mV ($V_{OUT} = 2 \cdot \pi \cdot M \cdot f \cdot I$ (M = 0.318 µH; example: At 50 Hz; I = 1,000 A))

Dimensions

Measuring coil	
Length	450 mm
Diameter	8.3 mm ±0.2 mm

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Measuring coil when installed

Diameter	140 mm
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Signal line

Length	10 m
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Material specifications

Coil material	Elastollan
Housing material	PC

Environmental and real-life conditions

Ambient conditions

Measuring coil degree of protection	IP67 (not assessed by UL)
Ambient temperature (operation)	-30 °C ... 80 °C (Measuring coil)
Ambient temperature (storage/transport)	-40 °C ... 80 °C (Measuring coil)
Altitude	< 2000 m
Permissible humidity (operation)	5 % ... 95 % (non-condensing)

Approvals

UKCA

Certificate	UKCA-compliant
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CMIM

Certificate	CMIM-compliant
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UL, USA/Canada

Identification	UL 61010 Recognized
Note	Measuring coil

Standards and regulations

Standards/regulations	IEC 61010-1
	IEC 61010-2-032

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Approvals

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cUL Recognized
Approval ID: FILE E 357804



UL Recognized
Approval ID: FILE E 357804



EAC
Approval ID: RU*DE*08.B.01187/19

cULus Recognized

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Classifications

ECLASS

ECLASS-11.0	27210992
ECLASS-12.0	27210992
ECLASS-13.0	27210992

ETIM

ETIM 8.0	EC002498
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UNSPSC

UNSPSC 21.0	39121000
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Environmental product compliance

China RoHS	Environmentally friendly use period: unlimited = EFUP-e
	No hazardous substances above threshold values

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Accessories

PACT RCP-CLAMP - Holder

2904895

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The optional holding device ensures the Rogowski coil is securely seated on busbars with a thickness of 10 ... 15 mm. During installation, the coil housing is pushed onto the flange of the holding device and snaps in automatically.

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PHOENIX CONTACT GmbH & Co. KG
Flachmarktstraße 8
D-32825 Blomberg
+49 (0) 5235-3 00
info@phoenixcontact.com