

# PACT RCP-D140 - Coil



2904891

<https://www.phoenixcontact.com/us/products/2904891>

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450 mm long Rogowski coil. The measuring coil diameter when installed is 140 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.



## Commercial data

Item number	2904891
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C444
Product key	CMMA12
GTIN	4046356898188
Weight per piece (including packing)	169 g
Weight per piece (excluding packing)	169 g
Customs tariff number	90309000
Country of origin	DE

## Technical data

### Product properties

Product type	Rogowski coil
Product family	Rogowski coil
Set comprises	2904922 PACT RCP-4000A-1A-D140

### Insulation characteristics

Pollution degree	2
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### 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)
Accuracy class	0.2 (IEC 61869-10: A1)

#### General

Converter type	Rogowski coil
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### Input data

#### Frequency

Designation	Measuring coil
Frequency measuring range	40 Hz ... 20000 Hz

#### Current transformer

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 $\mu$ H; example: At 50 Hz; I = 1,000 A))

### Dimensions

#### Measuring coil

Length	450 mm
Diameter	8.3 mm $\pm$ 0.2 mm

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## Measuring coil when installed

Diameter	140 mm
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## Signal line

Length	3 m
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## Material specifications

Housing material	PC
Coil material	Elastollan

## Environmental and real-life conditions

### Ambient conditions

Measuring coil degree of protection	IP54 (not assessed by UL)
Ambient temperature (operation) (Measuring coil)	-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

### CMIM

Certificate	CMIM-compliant
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### UL, USA/Canada

Identification	UL 61010 Recognized
Note	Measuring coil

## Standards and regulations

Standards/regulations	IEC 61010-2-030
	IEC 61869-10

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## Approvals

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**cUL Recognized**

Approval ID: FILE E 357804



**UL Recognized**

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## Classifications

### ECLASS

ECLASS-13.0	27210992
ECLASS-15.0	27210992

### ETIM

ETIM 10.0	EC002498
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### UNSPSC

UNSPSC 21.0	39121000
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## Environmental product compliance

### EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions
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### China RoHS

Environment friendly use period (EFUP)	EFUP-E
	No hazardous substances above the limits

### EU REACH SVHC

REACH candidate substance (CAS No.)	No substance above 0.1 wt%
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### EF3.1 Climate Change

CO2e kg	6.847 kg CO2e
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