

## Coil - PACT RCP-D140 - 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.



RoHS

### Key Commercial Data

Packing unit	1 pc
GTIN	 4 046356 898188
GTIN	4046356898188
Weight per Piece (excluding packing)	169.000 g
Country of origin	Italy
Sales Key	CK4A12

### Technical data

#### Measuring coil input data

Frequency measuring range	40 Hz ... 20000 Hz
Position error	< 1 %
Linearity error	0.1 %

#### Measuring coil signal output

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))

#### General data, measuring coil

Length of measuring coil	450 mm
Diameter of measuring coil	8.3 mm $\pm$ 0.2 mm
Length of signal cable	3000 mm
Conductor structure signal line	2x 0.22 mm (Signal (tinned))
	1x 0.22 mm (Shielding (tinned))

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## Technical data

### General data, measuring coil

Coil material	Elastollan
Housing material	PC
Insulation	double insulation
Rated insulation voltage	1000 V AC (rms CAT III)
	600 V AC (rms CAT IV)
Test voltage	10.45 kV (DC / 1 min.)
Basic accuracy	<± 0.21 %
UL, USA/Canada	UL 61010 Recognized

### General data

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

### Ambient conditions

Ambient temperature (operation)	-30 °C ... 80 °C (Measuring coil)
Ambient temperature (storage/transport)	-40 °C ... 80 °C (Measuring coil)
Maximum altitude	< 2000 m
Measuring coil degree of protection	IP67 (not assessed by UL)

### Standards and Regulations

Standards/regulations	IEC 61010-1
	IEC 61010-2-032
UL, USA/Canada	UL 61010 Recognized

### Environmental Product Compliance

China RoHS	Environmentally Friendly Use Period = 50
	For details about hazardous substances go to tab "Downloads", Category "Manufacturer's declaration"

## Classifications

### eCl@ss

eCl@ss 10.0.1	27219290
eCl@ss 5.1	27379100
eCl@ss 6.0	27379200
eCl@ss 7.0	27379201
eCl@ss 8.0	27219290
eCl@ss 9.0	27219290

### ETIM

ETIM 4.0	EC002048
ETIM 5.0	EC002498
ETIM 6.0	EC002498

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## Classifications

### ETIM

ETIM 7.0	EC002498
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### UNSPSC

UNSPSC 13.2	39121421
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## Approvals

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UL Recognized / cUL Recognized / cULus Recognized

#### Ex Approvals

### Approval details

UL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 357804
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cUL Recognized		<a href="http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm">http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm</a>	FILE E 357804
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cULus Recognized			
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## Accessories

### Accessories

#### Mounting material

Holder - PACT RCP-CLAMP - 2904895



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.

