

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

Approvals

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UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approval details

UL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	FILE E 357804
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cUL Recognized		http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm	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.

