

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.



Key Commercial Data

Packing unit	1 pc
Custom tariff number	90309085
Country of origin	Italy

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)	$V_{OUT} = M * di/dt$
Output voltage (sinusoidal, in no-load operation)	100 mV ($V_{OUT} = 2 * \pi * M * f * I$ (M = 0.318 μ 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))
Coil material	Elastollan
Housing material	PC
Insulation	double insulation
Rated insulation voltage	1000 V AC (rms CAT III)
	600 V AC (rms CAT IV)

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Technical data

General data, measuring coil

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

Classifications

eCl@ss

eCl@ss 5.1	27200303
eCl@ss 6.0	27200303
eCl@ss 8.0	27379201
eCl@ss 9.0	27379201

ETIM

ETIM 4.0	EC002498
ETIM 5.0	EC002498

Approvals

Approvals

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UL Recognized / cUL Recognized / cULus Recognized

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Approvals

Ex Approvals

Approvals submitted

Approval details

UL Recognized 

cUL Recognized 

cULus Recognized 
