

Coil - PACT RCP-D190 - 2904892


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600 mm long Rogowski coil. The measuring coil diameter when installed is 190 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 898195
GTIN	4046356898195

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 µH; example: At 50 Hz; I = 1,000 A))

General data, measuring coil

Length of measuring coil	600 mm
Diameter of measuring coil	8.3 mm ±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

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Technical data

General data, measuring coil

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

Standards and Regulations

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

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)

Environmental Product Compliance

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

Classifications

eCl@ss

eCl@ss 10.0.1	27219290
eCl@ss 4.0	27378000
eCl@ss 4.1	27378000
eCl@ss 5.0	27379100
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

Coil - PACT RCP-D190 - 2904892

Classifications

ETIM

ETIM 7.0	EC002498
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UNSPSC

UNSPSC 13.2	39121421
UNSPSC 19.0	39121421

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / EAC / 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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EAC			RU*DE*08.B.01187/19
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cULus Recognized			
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Accessories

Accessories

Mounting material

Coil - PACT RCP-D190 - 2904892

Accessories

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.

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