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PACT RCP-D190 - Coil

2904892

https://www.phoenixcontact.com/gb/products/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.



Commercial data

Item number	2904892
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	CK4A12
Product key	CK4A12
Catalog page	Page 219 (C-5-2019)
GTIN	4046356898195
Weight per piece (including packing)	183 g
Weight per piece (excluding packing)	181.1 g
Customs tariff number	90309000
Country of origin	IT

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Technical data

Product properties

Product type	Rogowski coil
Set comprises	2904923 PACT RCP-4000A-1A-D190

Insulation characteristics

Pollution degree	2

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)
Basic accuracy	<± 0.2 %

General

Converter type	Rogowski coil

Input data

Frequency

Designation	Measuring coil
Frequency measuring range	40 Hz ... 20000 Hz
Position error	<± 0.1 % (typical)
Linearity error	< 0.1 %

Current transformer

Converter type	Rogowski coil

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 * dI/dt
Output voltage (sinusoidal, in no-load operation)	100 mV (V_{OUT} = 2 * π * M * f * I (M = 0.318 µH; example: At 50 Hz; I = 1,000 A))

Dimensions

Measuring coil

Length	600 mm

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Diameter	8.3 mm ±0.2 mm

Measuring coil when installed

Diameter	190 mm

Signal line

Length	3 m

Material specifications

Housing material	PC
Coil material	Elastollan

Environmental and real-life conditions

Ambient conditions

Measuring coil degree of protection	IP67 (not assessed by UL)
Ambient temperature (operation)	-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

UKCA

Certificate	UKCA-compliant

CMIM

Certificate	CMIM-compliant

UL, USA/Canada

Identification	UL 61010 Recognized
Note	Measuring coil

Standards and regulations

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

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Approvals

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cUL Recognized
Approval ID: FILE E 357804

UL Recognized
Approval ID: FILE E 357804

EAC
Approval ID: RU*DE*08.B.01187/19

UL Recognized
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Classifications

ECLASS

ECLASS-11.0	27210992
ECLASS-12.0	27210992
ECLASS-13.0	27210992

ETIM

ETIM 9.0	EC002498

UNSPSC

UNSPSC 21.0	39121000

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Environmental product compliance

EU RoHS

Fulfills EU RoHS substance requirements	Yes, No exemptions

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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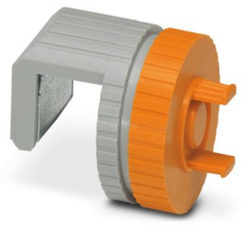
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Accessories

PACT RCP-CLAMP - Holder

2904895

https://www.phoenixcontact.com/gb/products/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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