PACT RCP-D95-10M - Coil

2910323

https://www.phoenixcontact.com/us/products/2910323

Please be informed that the data shown in this PDF document is generated from our online catalog. Please find the complete data in the user documentation. Our general terms of use for downloads are valid.

300 mm long Rogowski coil. The measuring coil diameter when installed is 95 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.

Commercial data

Item number	2910323
Packing unit	1 pc
Minimum order quantity	1 pc
Sales key	C444
Product key	CK4A12
Catalog page	Page 219 (C-5-2019)
GTIN	4055626437576
Weight per piece (including packing)	368.74 g
Weight per piece (excluding packing)	357 g
Customs tariff number	90309000
Country of origin	IT

Technical data

Product properties

Product type	Rogowski coil
Set comprises	2910326 PACT RCP-4000A-1A-D95-10M

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 transformers

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	300 mm

Diameter	8.3 mm ±0.2 mm

Measuring coil when installed

Diameter	95 mm

Signal line

Length	10 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

Approvals

To download certificates, visit the product detail page: https://www.phoenixcontact.com/us/products/2910323

cUL Recognized
Approval ID: FILE E 357804

UL Recognized
Approval ID: FILE E 357804

UL Recognized
Approval ID: FILE E 357804

cUL Recognized
Approval ID: FILE E 357804

Classifications

ECLASS

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

ETIM

ETIM 9.0	EC002498

UNSPSC

UNSPSC 21.0	39121000

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

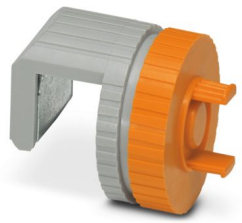
REACH candidate substance (CAS No.)	No substance above 0.1 wt%

Accessories

PACT RCP-CLAMP - Holder

2904895

https://www.phoenixcontact.com/us/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.

Phoenix Contact USA
586 Fulling Mill Road
Middletown, PA 17057, United States
(+717) 944-1300
info@phoenixcon.com