# PACT RCP-D95-10M - Coil

2910323

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

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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 | CMMA12 |
| GTIN | 4055626437576 |
| Weight per piece (including packing) | 369 g |
| Weight per piece (excluding packing) | 357 g |
| Customs tariff number | 90309000 |
| Country of origin | DE |

# Technical data

## Product properties

| | |
|---|---|
| Product type | Rogowski coil |
| Product family | 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) |
| Accuracy class | 0.2 (IEC 61869-10: A1) |

### General

| | |
|---|---|
| Converter type | Rogowski coil |

## Input data

### Frequency

| | |
|---|---|
| Designation | Measuring coil |
| Frequency measuring range | 40 Hz ... 20000 Hz |

### 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 | 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 | IP54 (not assessed by UL) |
| Ambient temperature (operation) (Measuring coil) | -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

CMIM

| | |
|---|---|
| Certificate | CMIM-compliant |

UL, USA/Canada

| | |
|---|---|
| Identification | UL 61010 Recognized |
| Note | Measuring coil |

## Standards and regulations

| | |
|---|---|
| Standards/regulations | IEC 61010-2-030 |
| | IEC 61869-10 |

## Approvals

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

**cUL Recognized**
Approval ID: FILE E 357804

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## Classifications

### ECLASS

| | |
|---|---|
| ECLASS-13.0 | 27210992 |
| ECLASS-15.0 | 27210992 |

### ETIM

| | |
|---|---|
| ETIM 10.0 | 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% |

EF3.1 Climate Change

| | |
|---|---|
| CO2e kg | 8.087 kg CO2e |

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