

# 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                            | CMMA12        |
| Product key                          | CMMA12        |
| GTIN                                 | 4046356898195 |
| Weight per piece (including packing) | 183 g         |
| Weight per piece (excluding packing) | 181.1 g       |
| Customs tariff number                | 90309000      |
| Country of origin                    | DE            |

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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)              |
| 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)             | $V_{OUT} = M \cdot dI/dt$                                                                                     |
| Output voltage (sinusoidal, in no-load operation) | 100 mV ( $V_{OUT} = 2 \cdot \pi \cdot M \cdot f \cdot I$ (M = 0.318 $\mu$ H; example: At 50 Hz; I = 1,000 A)) |

### Dimensions

#### Measuring coil

|          |                     |
|----------|---------------------|
| Length   | 600 mm              |
| Diameter | 8.3 mm $\pm$ 0.2 mm |

#### Measuring coil when installed

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|          |        |
|----------|--------|
| 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              | 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

UKCA

|             |                |
|-------------|----------------|
| Certificate | UKCA-compliant |
|-------------|----------------|

CMIM

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

UL, USA/Canada

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

## Standards and regulations

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

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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

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## Classifications

### ECLASS

|             |          |
|-------------|----------|
| 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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