


Coil - PACT RCP-D140 - 2904891

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450 mm long Rogowski coil. The measuring coil diameter when installed is 140 mm. The Rogowski coil is used for AC current measurement for busbars and power lines.



Key Commercial Data

| | |
|--------------|---|
| Packing unit | 1 pc |
| GTIN |  4 046356 898188 |
| GTIN | 4046356898188 |

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) | $V_{OUT} = M \cdot dl/dt$ |
| 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 | 450 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 |

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) |

Standards and Regulations

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

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 |

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Classifications

ETIM

| | |
|----------|----------|
| ETIM 7.0 | EC002498 |
|----------|----------|

UNSPSC

| | |
|-------------|----------|
| UNSPSC 13.2 | 39121421 |
| UNSPSC 19.0 | 39121421 |

Approvals

Approvals

Approvals

UL Recognized / cUL Recognized / cULus Recognized

Ex Approvals

Approval details

| | | | |
|---------------|--|---|---------------|
| UL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 357804 |
|---------------|--|---|---------------|

| | | | |
|----------------|--|---|---------------|
| cUL Recognized | | http://database.ul.com/cgi-bin/XYV/template/LISEXT/1FRAME/index.htm | FILE E 357804 |
|----------------|--|---|---------------|

| | | | |
|------------------|--|--|--|
| cULus Recognized | | | |
|------------------|--|--|--|

Accessories

Accessories

Mounting material

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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