

1 phase Rogowski coil

- ▶ 1 phase Rogowski coil with 9cm diameter
Item no.: 111.7087.06



1. Application

The Rogowski coils are used for current measurement with the PQI-LV measuring device up to 1000A directly in low-voltage system

2. Electrical properties

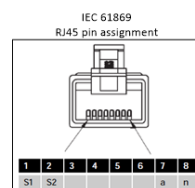
| | |
|--|-----------------------------|
| Nominal range I_N : | 1 x 1000 A_{RMS} |
| Measuring range: | 1 - 1000 A_{RMS} |
| Load impedance: | $\geq 2 M\Omega$ |
| Output signal (at 50Hz): | 330 mV / 1000 A_{RMS} |
| Phase shift at 45...65Hz: | $\pm 0,1$ degree |
| Influence of conductor positioning (in the centre) | $\pm 1\%$ |
| Frequency range: | 10 Hz bis 5 kHz |
| Permitted voltage (see safety standards): | 1000 V AC_{RMS} , CAT III |

3. General properties

| | |
|-------------------------------|------------------------------|
| Coil length, diameter : | 350 mm, 90 mm |
| Bobbin diameter: | 12.4 ± 0.2 mm |
| Coil material: | UL94 V-0 |
| Cable length: | 3 m |
| Temperature range, operation: | -30 bis +80 °C |
| Temperature range, storage: | -40 bis +80 °C |
| Humidity, operation: | 0 % bis 95 % (no condensate) |
| Protection class: | IP67 |
| Weight: | Approx. 195g |

4. Connection

| Pin assignment RJ45 - Current | |
|-------------------------------|----|
| Pin 1 | S1 |
| Pin 2 | S2 |



We take care of it.

5. Safety standard

EN 61010-1: 2001

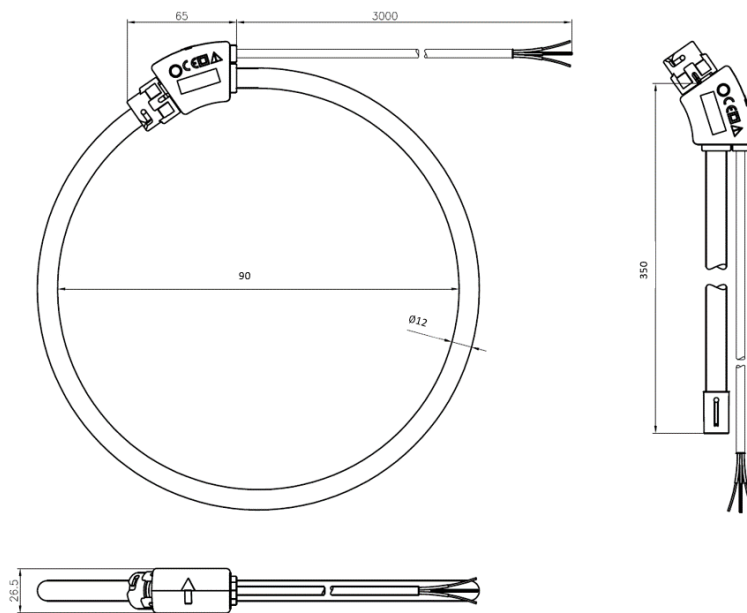
EN 61010-2-032: 2002

1000 VRMS, CAT III

600 VRMS, CAT IV

The use of Rogowski coils on uninsulated conductors is limited to 1000 V ACRMS or DC and frequencies up to 1 kHz.

6. Dimensions



7. Order details

| FEATURE | IDENT No. |
|---|--------------------|
| 1 phase Rogowski coil ● 1 phase Rogowski coil, 1...1000A, 3m connection cable | 111.7087.06 |

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