

1 phase Rogowski coil

111.7087.05

► 1 phase Rogowski coil

Application

The 111.7087.05 is a flexible current transformer based on the Rogowski principle, which is particularly suitable for measurements in combination with PQ measuring instruments. The coil is characterized by the length of 2900mm and can be used in all applications where conventional instrument transformers are not suitable due to their size and/or weight.



1. Electrical properties

Rated range I_N:

Measuring range:

Load impedance:

Output signal (at 50Hz):

Influence of conductor positioning:

Accuracy (at 25°C, 50Hz):

Influence of electric fields (distance > 10cm):

Repeatability:

Fault due to adjacent conductors:

Phase shift at 45...65Hz:

Frequency range:

Temperature coefficient:

Permissible voltage (see safety standards):

1 x 3000 A RMS

1 - 3000 A RMS

 $\geq 1~M\Omega$

100 mV / 1000 A

± 1 % of the measured value

± 1 % of measured value

± 0.25 % of the measured value

± 0.5 % of the measured value

 \leq 15 mA / A @ 50 Hz

± 1 degree

40 Hz to 20 kHz

0,05 % / °C

1000 V $\text{AC}_{\text{RMS},}$, CAT III

2. General properties

Coil length / diameter : 2900 mm, 920 mm

Coil bobbin diameter: 8.3 ±0.2 mm

Coil material: Thermoplastic polyurethane UL94-V0

Cable length: 15 m

Temperature range, operation: $-30 \text{ to } +80 \,^{\circ}\text{C}$ Temperature range, storage: $-40 \text{ to } +80 \,^{\circ}\text{C}$

Humidity, operation: 15% to 95% (no condensate)

Protection class: IP67 Weight: 890g

3. Connection

Blue	S1 (+)
white	S2 (-)
Umbrella	PE

4. Security standard

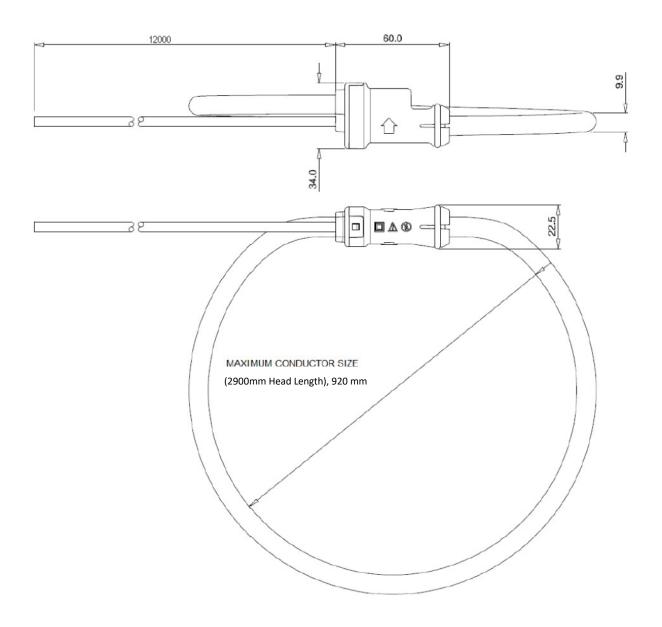
61010-1, IEC 60529

 $1000~V_{\text{RMS}}$, CAT III $600~V_{\text{RMS}}$, CAT IV

The use of Rogowski coils on **uninsulated conductors** is limited to 1000 V AC_{RMS} and frequencies up to 1 kHz.

Page2 General properties

5. Dimensions



6. Ordering information

FEATURE	IDENT no.
1 phase Rogowski coil	111.7087.05
• 1 phase Rogowski coil, 13000A, 92cm, 15m connection cable	

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