

Rogowski coil set CAT IV 600

111.7001

► Rogowski coil set for PQ-Box



1. Use

These Rogowski coils are designed for the measurement of current up to 3000 A in low voltage systems. Measurements in medium voltage systems with insulated conductors are also possible.

2. Electrical Properties

Rated current I_N	:	4 x 3000A AC_{RMS}
Measurement range	:	1 - 3000A $_{RMS}$
Output	:	85mV / 1000A at 50 Hz
Internal resistance	:	157 Ω , \pm 15 Ω
Impedance	:	\geq 10k Ω
Influence of conductor positioning	:	\pm 2%
Accuracy (at 25°C, 50Hz)	:	\pm 0,5%
Linearity (10...100% of measurement range)	:	\pm 0,2%
Influence el. field (distance > 10cm)	:	\pm 0,25%
Repeat accuracy	:	\pm 0,5%
Proximity error	:	\leq 15mA / A @ 50Hz
Angle error at 45...65Hz	:	\pm 1 Grad
Frequency range	:	10Hz to 20kHz
Temperature coefficient	:	0.05% / °C
Permissible voltage	:	1000 V AC_{RMS} , CAT III

3. General Properties

Coil length, diameter	:	4x 610mm, 194mm
Coil body diameter	:	9,9mm
Coil material	:	Alcryn 2070 NC, LATENE 7H2W V0
Connection	:	Cable with Amphenol plug C01630H00611012
Identification resistance	:	> 100 MOhm
Cable length	:	2 Meter
Operation temperature	:	-20 to +80 °C
Storage temperature	:	-40 to +90 °C
Humidity, in operation	:	15% to 85% (no condensate)
Protection class	:	IP65
Weight	:	680g

4. Connection

Pin 1	L1 (+) Black	Pin 5	L1, L2, L3, N (-) Red
Pin 2	L2 (+) Black	Pin 6	Not connected
Pin 3	L3 (+) Black	Pin 7	Shielding, Bridge to Pin 5
Pin 4	(N) (+) Black		

5. Safety Standard

EN 61010-1: 2001

EN 61010-031: 2002

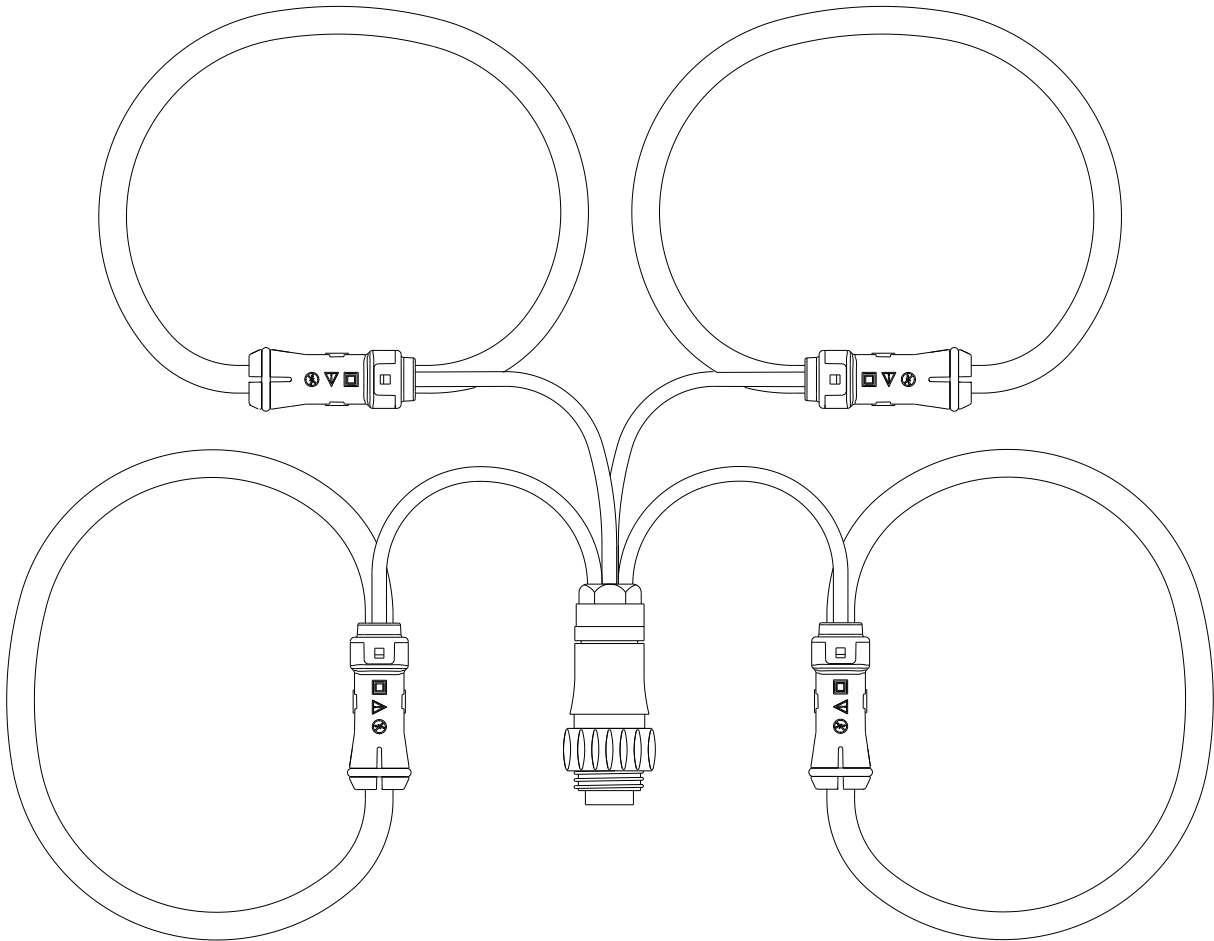
EN 61010-2-032: 2002

1000 V_{RMS}, CAT III

600 V_{RMS}, CAT IV

The usage of these Rogowski coils at uninsulated conductors is limited to voltages of max 1000 V AC_{RMS} and frequencies to 1 kHz.

6. Dimensions



We take care of it.

7. Ordering Information

FEATURE	ORDER CODE
Rogowski coil (set of 4) ● Rogowski coil (set of 4), 1...3000A	111.7001

A. Eberle GmbH & Co. KG

Frankenstraße 160
D-90461 Nürnberg

Tel.: +49 (0) 911 / 62 81 08-0
Fax: +49 (0) 911 / 62 81 08 96
E-Mail: info@a-eberle.de

<http://www.a-eberle.de>

Version: 11/6/2017 2:50 PM

Copyright 2013 by A. Eberle GmbH & Co. KG
Subject to change without notice.