



*The CE mark indicates RoHS2 compliance. Please refer to the CE Declaration of Conformity for additional details.



E683x Series

*Rogowski Current Transducers
for use with E5xxxA & E2x Series Power Meters*

Product Overview

The E683x Series of Rogowski flexible rope style current transducers (CTs) provide secondary AC voltage proportional to the primary (sensed) current. For use with E5xxxA and E2x Series power meters, the E683x Series CTs provide a cost-effective means to transform electrical service amperages to a voltage compatible with monitoring equipment. The flexible core makes it easy to fit in tight enclosures.

These products provide reinforced insulation between the sensed conductor and the output leads.

⚠️ DANGER

HAZARD OF ELECTRIC SHOCK, EXPLOSION, OR ARC FLASH

- Follow safe electrical work practices. See NFPA 70E in the USA, or applicable local codes.
- This equipment must only be installed and serviced by qualified electrical personnel.
- Read, understand and follow the instructions before installing this product.
- Turn off all power supplying equipment before working on or inside the equipment.
- Product may use multiple voltage/power sources. Disconnect ALL sources before servicing.
- Use a properly rated voltage sensing device to confirm that power is off. **DO NOT DEPEND ON THIS PRODUCT FOR VOLTAGE INDICATION.**
- Current transformer secondaries must be shorted or connected to a burden at all times.
- Replace all doors, covers and protective devices before powering the equipment.

Failure to follow these instructions will result in death or serious injury.

A qualified person is one who has skills and knowledge related to the construction and operation of this electrical equipment and installations, and has received safety training to recognize and avoid the hazards involved. NEC Article 100

If this product is used in a manner not specified by the manufacturer, the protection provided by the product may be impaired. No responsibility is assumed by the manufacturer for any consequences arising out of the use of this material.

NOTICE

- This product is not intended for life or safety applications.
- Do not install this product in hazardous or classified locations.
- The installer is responsible for conformance to all applicable codes.
- Mount this product inside a suitable fire and electrical enclosure.

Product Identification

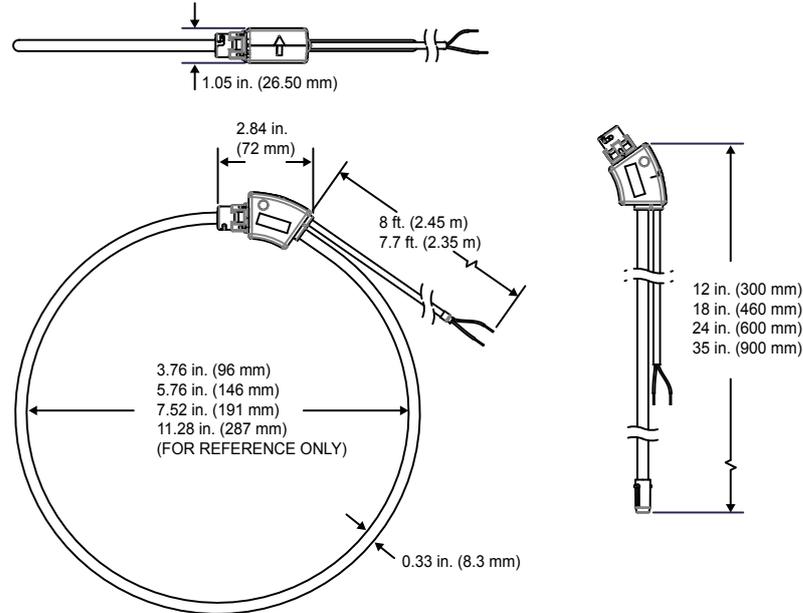
Product	Description
E683D502	Rogowski CT, 300 mm (12"), 600 V, 5 kA, U018 equivalent
E683G502	Rogowski CT, 460 mm (18"), 600 V, 5 kA, U018 equivalent
E683J502	Rogowski CT, 600 mm (24"), 600 V, 5 kA, U018 equivalent
E683L502	Rogowski CT, 900 mm (35"), 600 V, 5 kA, U018 equivalent

Specifications

Output at Rated Current	Custom for E5xxxA and E2x Series power meters
Accuracy	±1% from 50 to 5000 A
Frequency Range	50/60 Hz
Cable	1000 Vac UL Style 21223 cable with 22 AWG leads
Operating Temperature Range	-15 to +60 °C (+5 to +140 °F)
Storage Temperature Range	-40 to +70 °C (-40 to +158 °F)
Humidity Range	0 to 95% non-condensing
Max. Voltage L-N Sensed Conductor¹	600 Vac (reinforced insulation rating)
Altitude of Operation	2000 m max.
COMPLIANCE INFORMATION	
Approvals	EN61010-1; UL61010-1; EN61010-2-032; UL61010-2-032
Installation Category	600 V Cat IV, Pollution Degree 2
WARRANTY	
Limited Warranty	3 years

¹ Do not apply current transducers to circuits that have a phase-to-phase voltage greater than their voltage rating unless adequate additional insulation is applied between the primary conductor and the current transducers. Veris assumes no responsibility for damage of equipment or personal injury caused by products operated on circuits above their published ratings.

Dimensions

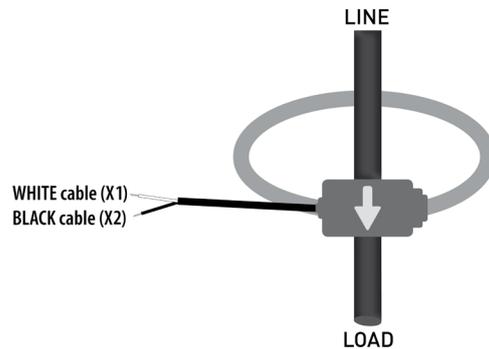


Installation

⚠️ Installation must be performed by a qualified electrician.

⚠️ Disconnect and lock out power to the electrical panel.

1. Connect the CT output leads to the meter inputs. The white wire is the X1 lead. The E683x CT has an arrow indicating the source side.



2. Release the clasp on one side of the CT and open it on the hinge.
3. Fit the Rogowski coil around the conductor, bringing the coil ends together.
4. Lock the coil by turning the ring clockwise as shown in the diagram at right.
5. Reconnect power to the panel.

