



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**
- Do not use this product for life or safety applications.
 - Do not install this product in hazardous or classified locations.
 - Mount this product inside a suitable fire and electrical enclosure.
 - Apply appropriate personal protective equipment (PPE) and follow safe electrical work practices. See NFPA 70E in the USA, CSA Z462 or applicable local standards.
 - 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.**

Electrical equipment should be installed, operated, serviced and maintained only by qualified personnel. No responsibility is assumed by Veris Industries for any consequences arising out of the use of this material. A qualified person is one who has skills and knowledge related to the construction, installation and operation of electrical equipment and has received safety training to recognize and avoid the hazards involved.

Installation, wiring, testing and service must be performed in accordance with all local and national electrical codes.

If this product is be used in a manner not specified by the manufacturer, the protection provided by the product may be impaired.

Product Identification

Product	Description
E683D502	Rogowski CT, 300 mm (12"), 600 Vac, 5 kA
E683G502	Rogowski CT, 460 mm (18"), 600 Vac, 5 kA
E683J502	Rogowski CT, 600 mm (24"), 600 Vac, 5 kA
E683L502	Rogowski CT, 900 mm (36"), 600 Vac, 5 kA

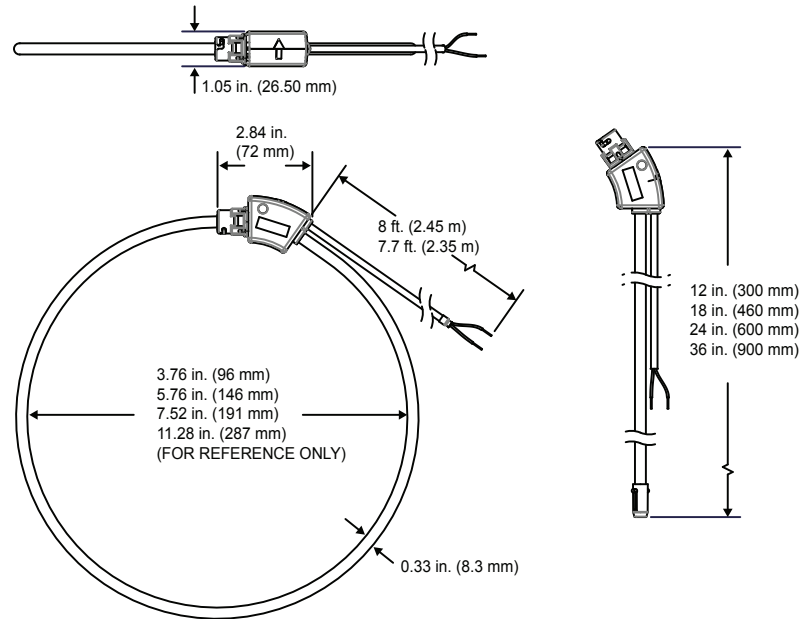
Specifications

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 Conductor	600 Vac (reinforced insulation rating)
Altitude of Operation	2000 m max.
COMPLIANCE INFORMATION	
Approvals	EN61010-1; UL61010-1; EN61010-2-032; UL61010-2-032; CAN/CSA-C22.2 No. 61010-1
Installation Category	600 Vac Cat IV, Pollution Degree 2
WARRANTY	
Limited Warranty	3 years

WARNING

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

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1. Turn off all power supplying this device and the equipment in which it is installed before working on the device or equipment.
2. Always use a properly rated voltage sensing device to confirm that all power is off.
3. Connect the CT output leads to the meter inputs. The white wire is the x1 lead. An arrow points to the load side.
4. Release the clasp on one side of the CT and open it on the hinge.
5. Fit the Rogowski coil around the conductor, bringing the coil ends together.
6. Lock the coil by turning the ring clockwise as shown in the diagram at right.
7. Reconnect power to the panel.

