



## E681x Series

Split-Core Current Transducers  
With 0.333 VAC Output

### Product Overview

The E681x series of 0.333 volt split-core current transducers (CTs) provide secondary AC voltage proportional to the primary (sensed) current. For use with power meters, data loggers, chart recorders, and other instruments, the E681x series CTs provide a cost-effective means to transform electrical service amperages to a voltage compatible with monitoring equipment.

These products provide basic insulation between the sensed conductor and the output leads. For reinforced applications, the sensed conductor must be insulated appropriately.

### Product Identification

Product	Description
E681A051V3	50A split-core CT
E681B101V3	100A split-core CT
E681C201V3	200A split-core CT

### Specifications

<b>Output at Rated Current</b>	0.333 VAC
<b>Accuracy</b>	1% from 10% to 100% of rated current
<b>Frequency Range</b>	50/60 Hz
<b>Leads</b>	22 AWG, 600VAC, UL 1015 bonded pair, 6 ft. (1.8 m) standard length
<b>Operating Temperature Range</b>	0° to 70°C (32° to 158°F)
<b>Storage Temperature Range</b>	-40° to 105°C (-40° to 221°F)
<b>Humidity Range</b>	0-95% noncondensing
<b>Max. Voltage L-N Sensed Conductor*</b>	E681A051V3: 300VAC (basic insulation rating); 150VAC (reinforced insulation rating) E681B101V3, E681C201V3: 600VAC (basic insulation rating); 300VAC (reinforced insulation rating)
<b>Altitude of Operation</b>	3 km max.
<b>COMPLIANCE INFORMATION</b>	
<b>Approvals</b>	EN61010-1; UL61010-1
<b>Installation Category</b>	Cat III, pollution degree 2

\* Do not apply current transducers to circuits having 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.

\* 300 VAC maximum (UL, CE), 50/60 Hz

\*\* 300 VAC maximum (CE), 600 VAC maximum (UL), 50/60 Hz



### **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 of power before servicing.
- Use a properly rated voltage sensing device to confirm 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.
- Products rated only for basic insulation must be installed on insulated conductors.
- Replace all doors, covers and protective devices before powering the equipment.

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

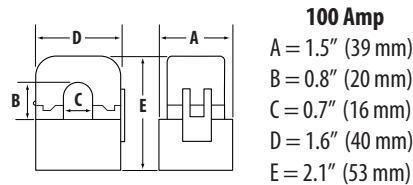
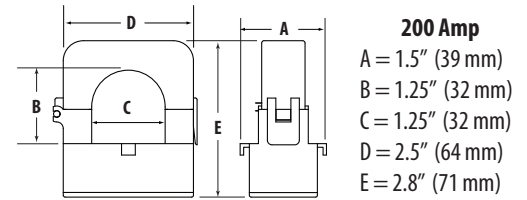
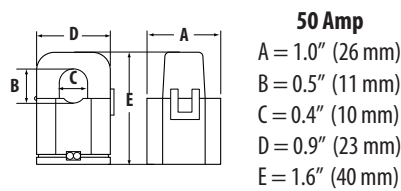
A qualified person is one who has skills and knowledge related to the construction and operation of this electrical equipment and installations, and has received safety training to recognize and avoid the hazards involved. NEC2011 Article 100

No responsibility is assumed by Veris Industries 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.

## 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 E681x CT has a label indicating the source side, as well as a marking on the hinged lid.
2. Release the clasp on one side of the CT and open it on the hinge. Check the core ends on both sections of the CT to ensure there is no rust or debris in the closure areas.
3. Wrap the CT around the primary lead. **Install E681A051V3 on 300 VAC maximum, 50/60 Hz. Install E681B101V3 and E681C201V3 on 300 VAC max., 50/60 Hz (CE) or 600 VAC max., 50/60 Hz (UL).**
4. Close the CT until the clasp clicks into place.
5. Reconnect power to the panel.

