

## E683X SERIES

Exclusively for E2x and E5xxxA  
Power and Energy Meters (sold separately)



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.

The E683x Series works exclusively with the E2x and E5xxxA power and energy meters and is a U018 equivalent. These meters have a built-in power supply and integrator, so CT connection is fast and simple.

### SPECIFICATIONS

#### INPUTS

|                 |   |
|-----------------|---|
| Frequency Range | 50/60 Hz  |
| Cable           | 1000 Vac UL Style 21223 cable with 22 AWG leads |

#### ACCURACY

|          |                       |
|----------|-----------------------|
| Accuracy | ±1% from 50 to 5000 A |
|----------|-----------------------|

#### OUTPUT

|                         |   |
|-------------------------|---|
| Output at Rated Current | Custom for E5xxxA and E2x Series power meters |
|-------------------------|---|

#### MECHANICAL

|                     |                                  |
|---------------------|----------------------------------|
| Insulation category | 600 V Cat IV, Pollution Degree 2 |
|---------------------|----------------------------------|

#### ENVIRONMENTAL

|                          |                              |
|--------------------------|------------------------------|
| Installation Category IV | Pollution Degree 2           |
| Operating Temp. Range    | -15 to 60 °C (5 to 140 °F)   |
| Storage Temp. Range      | -40 to 70 °C (-40 to 158 °F) |

#### WARRANTY

|                  |         |
|------------------|---------|
| Limited Warranty | 3 years |
|------------------|---------|

#### AGENCY APPROVALS

|                  |   |
|------------------|---|
| Agency Approvals | EN61010-1; UL61010-1; EN61010-2-032;<br>UL61010-2-032 |
|------------------|---|



\* The CE mark indicates RoHS2 compliance.

### Easy installation

Insulated leads

### UL Recognized

UL Recognized

### Maximum flexibility

Fits difficult spaces

### 1% accuracy

1% accuracy from 50 to 5000 A...  
monitor a wide range of loads  
with breakers from 400 to 5000 A

### Fast CT connection

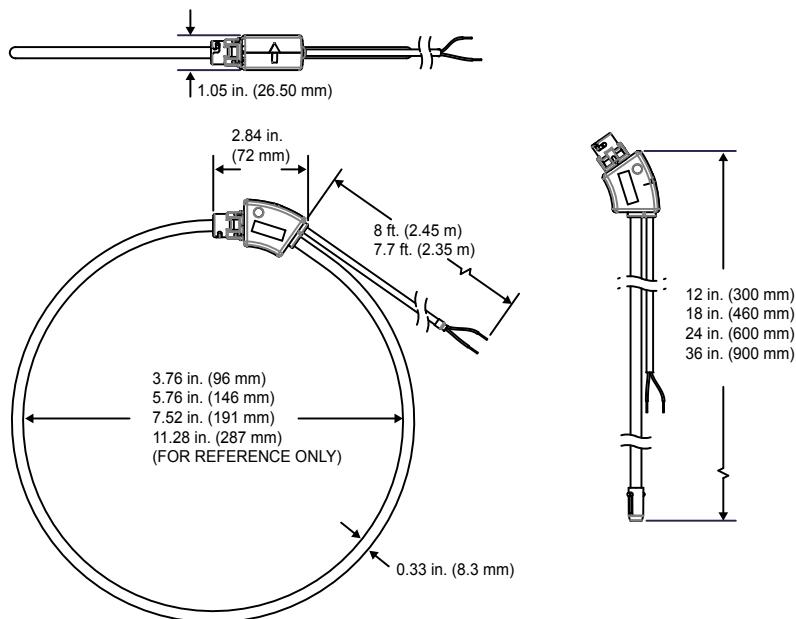
Compatible with E2x and E5xxxA power and energy meters with built-in power supply and integrator for fast CT connection...  
see the E2xxx and E5xxxA datasheets

### Enhanced accuracy

Phase angle <0.5 degrees, measured at 50% rated current

### APPLICATIONS

- Data logging
- Recording
- Power monitoring
- Energy management
- Alternative energy monitoring
- Cost allocation

**DIMENSIONAL DRAWING**

| CT CORE LENGTH  | APPROXIMATE INSIDE DIAMETER WITH CLOSED CONNECTOR |
|-----------------|---|
| 12 in. (300 mm) | Ø 3.76 in. (96 mm)                                |
| 18 in. (460 mm) | Ø 5.76 in. (146 mm)                               |
| 24 in. (600 mm) | Ø 7.52 in. (191 mm)                               |
| 36 in. (900 mm) | Ø 11.28 in. (287 mm)                              |

**ORDERING INFORMATION**

| MODEL    | 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 (36"), 600 V, 5 kA, U018 equivalent |

Note: These CTs are only compatible with the E2x and E5xxxA Series meters.