H681x-V Series

Split-Core Current Transformers, Voltage Output

Product Overview

The H681x-V series of 1 volt and 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 H681x-V series CTs provide a cost-effective means to transform electrical service amperages to a voltage compatible with monitoring equipment.

E207042

⚠ 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.
- 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. 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

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

0.333 V Models*	Description
H6810-100A-.3V (R20)	Split-Core CT, Small, 100A:0.333V
H6810-200A-.3V (R20)	Split-Core CT, Small, 200A:0.333V
H6810-300A-.3V (R20)	Split-Core CT, Small, 300A:0.333V
H6811-400A-.3V (R20)	Split-Core CT, Medium, 400A:0.333V
H6811-600A-.3V (R20)	Split-Core CT, Medium, 600A:0.333V
H6811-800A-.3V (R20)	Split-Core CT, Medium, 800A:0.333V
H6812-800A-.3V (R20)	Split-Core CT, Large, 800A:0.333V
H6812-1000A-.3V (R20)	Split-Core CT, Large, 1000A:0.333V
H6812-1200A-.3V (R20)	Split-Core CT, Large, 1200A:0.333V
H6812-1600A-.3V (R20)	Split-Core CT, Large, 1600A:0.333V
H6812-2000A-.3V (R20)	Split-Core CT, Large, 2000A:0.333V
H6812-2400A-.3V (R20)	Split-Core CT, Large, 2400A:0.333V

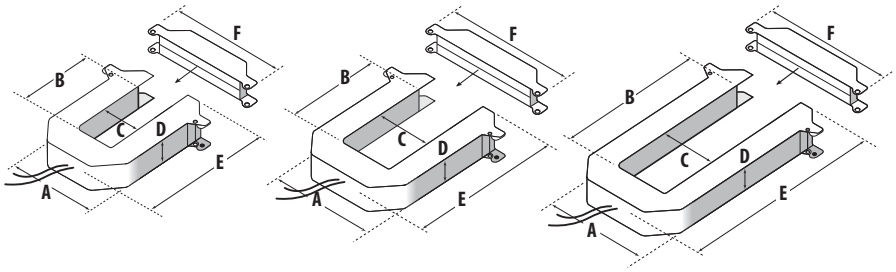
1 V Models	Description
H6810-100A-1V	Split-Core CT, Small, 100A:1V
H6810-200A-1V	Split-Core CT, Small, 200A:1V
H6810-300A-1V	Split-Core CT, Small, 300A:1V
H6811-400A-1V	Split-Core CT, Medium, 400A:1V
H6811-600A-1V	Split-Core CT, Medium, 600A:1V
H6811-800A-1V	Split-Core CT, Medium, 800A:1V
H6812-800A-1V	Split-Core CT, Large, 800A:1V
H6812-1000A-1V	Split-Core CT, Large, 1000A:1V
H6812-1200A-1V	Split-Core CT, Large, 1200A:1V
H6812-1600A-1V	Split-Core CT, Large, 1600A:1V
H6812-2000A-1V	Split-Core CT, Large, 2000A:1V
H6812-2400A-1V	Split-Core CT, Large, 2400A:1V

**Models ending with R20 have 20 ft (6 m) leads. Example: H6810-100A-.3VR20.*

Specifications

INPUTS	
Frequency Range	50/60 Hz
Leads	6 ft (1.8 m) 20 ft (6 m)
ACCURACY	
Accuracy	±1% of reading from 10% to 100% of rated current, specified with the primary conductor(s) centered in the CT window.
OUTPUTS	
Output at Rated Current	1 V or 0.333 V
MECHANICAL	
Insulation	600 Vac
ENVIRONMENTAL	
Operating Temp Range	2400 A models only: -15 to 50 °C (5 to 122 °F); All other models: -15 to 60 °C (5 to 140 °F)
Storage Temp Range	-40 to 70 °C (-40 to 158 °F)
Humidity Range	0 to 95% non-condensing
Altitude of Operation	3 km max.
COMPLIANCE INFORMATION	
Agency Approvals	UL61010-1, EN61010-1
Installation Category	Category III, Pollution Degree 2

Dimensions



H6810/Small
100 Amp, 200 Amp, 300 Amp

A = 3.8" (96 mm)
B = 1.2" (30 mm)
C = 1.3" (32 mm)
D = 1.2" (30 mm)
E = 4.0" (100 mm)
F = 4.8" (121 mm)

H6811/Medium
400 Amp, 600 Amp, 800 Amp

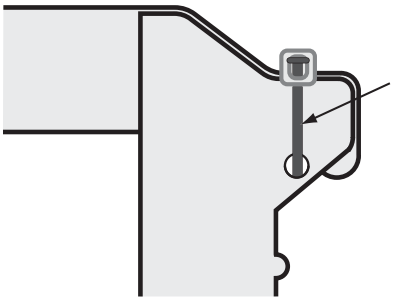
A = 4.9" (125 mm)
B = 2.9" (73 mm)
C = 2.5" (62 mm)
D = 1.2" (30 mm)
E = 5.2" (132 mm)
F = 6.0" (151 mm)

H6812/Large
800 Amp, 1000 Amp, 1200 Amp, 1600 Amp, 2000 Amp, 2400 Amp

A = 4.9" (125 mm)
B = 5.5" (139 mm)
C = 2.5" (62 mm)
D = 1.2" (30 mm)
E = 7.9" (201 mm)
F = 6.0" (151 mm)

Installation

1. Disconnect and lock out power to the primary circuit before installing these CTs.
2. Connect the secondary leads to the burden or test switching/shorting bar. The white wire is the X1 lead.
3. Depress the tabs on one end of the CT to open it. Check the core ends on both sections of the CT to ensure there is no rust or debris in the closure areas.
4. Slip the CT over the primary leads. Note labeling on the product indicating "source side."
5. Close and latch the CT, and mount it securely.
6. In any application where fault currents can exceed 20 times rated current of CT, use wire ties or similar fasteners to secure the I-bar to the CT housing (see below). Secure both sides of the I-bar.



Secure the I-bar with a wire tie in applications where a fault current could exceed 20x rated current.

7. Reconnect power to the panel.

An optional mounting kit is available for these devices (Veris part number AH06).

Ratings

These products provide basic insulation to 600 Vac between the sensed conductor and the output leads. For reinforced applications, the installer must provide appropriate insulation. Reinforced insulation is provided for applications to 300 Vac between the sensed conductor and the output leads.

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