



H681x-5A Series

Split-Core Current Transformers, 5A Output

Product Overview

H681x-xxx 5 Amp split-core current transformers (CTs) provide secondary amperage proportional to the primary (sensed) current. For use with power meters, data loggers, chart recorders, and other instruments, the H681x Series 5 Amp CTs provide a cost-effective means to transform electrical service amperages to a 0 to 5 Amp level compatible with monitoring equipment.



⚡ ⚠ 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. Be sure all sources of power have been disconnected before servicing.
- Use a properly rated voltage sensing device to confirm power is off.

DO NOT DEPEND ON THIS PRODUCT FOR VOLTAGE INDICATION

- Only install this product on insulated conductors.

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 the installation, 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.

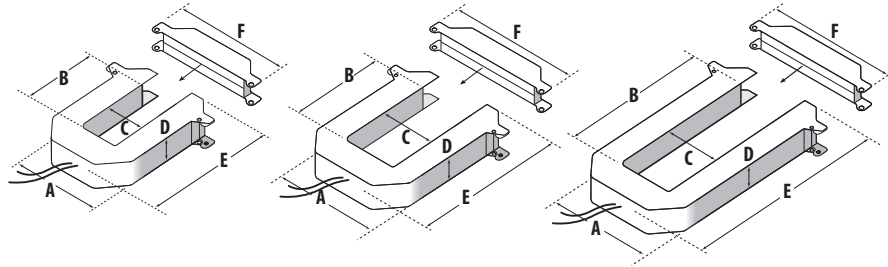
Product Identification

| 5 A Models | Description | Burden Capacity in VA |
|----------------|--------------------------------|-----------------------|
| H6810-200A-5A | Split-Core CT, Small, 200A:5A | 2.5 |
| H6810-300A-5A | Split-Core CT, Small, 300A:5A | 2.5 |
| H6811-400A-5A | Split-Core CT, Medium, 400A:5A | 5.0 |
| H6811-600A-5A | Split-Core CT, Medium, 600A:5A | 5.0 |
| H6811-800A-5A | Split-Core CT, Medium, 800A:5A | 12.5 |
| H6812-800A-5A | Split-Core CT, Medium, 800A:5A | 5.0 |
| H6812-1000A-5A | Split-Core CT, Large, 1000A:5A | 22.5 |
| H6812-1200A-5A | Split-Core CT, Large, 1200A:5A | 22.5 |
| H6812-1600A-5A | Split-Core CT, Large, 1600A:5A | 22.5 |
| H6812-2000A-5A | Split-Core CT, Large, 2000A:5A | 22.5 |
| H6812-2400A-5A | Split-Core CT, Large, 2400A:5A | 22.5 |

Specifications

| INPUTS | |
|-------------------------|---|
| Frequency Range | 50/60 Hz |
| Leads | 6 ft (1.8 m) |
| ACCURACY | |
| Accuracy | ±1% of reading from 5% to 100% of rated current, specified with the primary conductor(s) centered in the CT window. |
| OUTPUTS | |
| Output at Rated Current | 5A |
| MECHANICAL | |
| Insulation | 600VAC |
| ENVIRONMENTAL | |
| Operating Temp Range | 2400A 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 | 0-95% noncondensing |
| Altitude of Operation | 3 km max. |
| COMPLIANCE INFORMATION | |
| Agency Approvals | UL61010-1, EN61010-1 |
| Installation Category | Category III, Pollution Degree 2 |

Dimensions



H6810/Small

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)

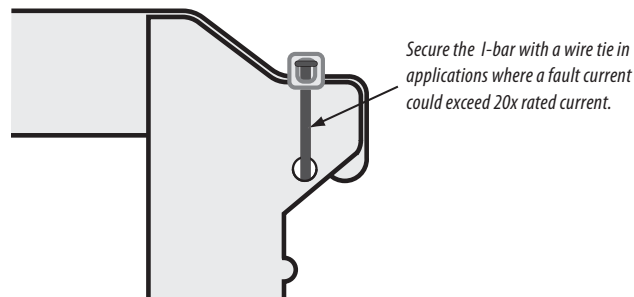
H6812/Large

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.



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.