National Meter Industries, Inc.

GREEN RENEWABLE ENERGY METERING

NMI-VER Split Core Current Transformers

Description

The H681x series of 5 amp split-core current transformers 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 provides a cost-effective means to transform electrical service amperages to a 0-5 amp level compatible with monitoring equipment.

⚠ DANGER

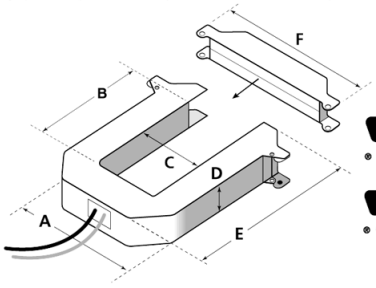
Hazard of electric shock, burn, or explosion

- Turn off all power before installing/removing device
- Secondary terminals must be shorted, or connected to the burden.

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

Max. Voltage without additional insulation.....600VAC

Do not apply 600V Class current transformers to circuits having a phase-to-phase voltage greater than 600V, unless adequate additional insulation is applied between the primary conductor and the current transformers. Veris assumes no responsibility for damage of equipment or personal injury caused by transformers operated on circuits above their published ratings.



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Size 2 200 Amp 300 Amp	Size 3 400 Amp 800 Amp	Size 4 800 Amp 1600 Amp
A = 3.75" (95 mm)	A = 4.90" (124 mm)	A = 4.90" (124 mm)
B = 1.51" (38 mm)	B = 2.89" (73 mm)	B = 5.50" (140 mm)
C = 1.25" (32 mm)	C = 2.45" (62 mm)	C = 2.45" (62 mm)
D = 1.13" (29 mm)	D = 1.13" (29 mm)	D = 1.13" (29 mm)
E = 3.92" (100 mm)	E = 5.27" (134 mm)	E = 7.85" (199 mm)
F = 4.75" (121 mm)	F = 5.91" (150 mm)	F = 5.92" (150 mm)

Other ratios available, consult factory

Literature #Z101970-0C

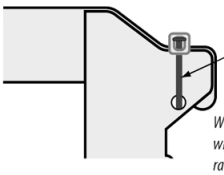
INSTALLATION

⚠ Installation must be perfromed by a trained electrician. Disconnect power to the primary circuit before installing these current transformers (CT's).

1. Connect the secondary leads to the burden or test switch/shorting bar. The white wire is the X1 lead.
2. Open the current transformer and slip it over the primary leads. Note labeling on product indicating "source side" (H1).
3. Check the core ends on both sections of the CT to assure there is no rust or debris in the closure areas.
4. Close and latch the CT, and mount it securely.

NOTES: Accuracy is specified with the primary conductor(s) centered in the CT window.

In any application where fault currents can exceed 20 times rated current of CT, wire ties or similar fasterners should be used to secure I-Bar to CT housing. Wire ties should be used on each side of each CT, see below. CT's should be secured using wire ties or brackets.



Wire tie used to secure I-Bar in applications where a fault current could exceed 20X rated current.

SPECIFICATIONS

Accuracy	See table
Leads	18 AWG, 600 VAC, UL 1015 twisted pair, 6' length*
Temperature Range	-15º to 60º C (H6812-2400-5A 80 to 100% loaded -15º to 50ºC)
Humidity Range	0-95% non-condensing
Max. Voltage	600VAC (basic insulation rating)
Frequency Range	50/60 Hz