# CABINET - CURRENT TRANSFORMER
Indoor - Outdoor
240 Volts - 800 Amperes Maximum



**USE:**
1. For commercial and industrial installations purchased and installed by the Customer.
2. For use on the following services: 1 phase 3 wire 240 volts, 3 phase 3 wire 240 volts, 3 phase 4 wire 120/208 volts, 800 amperes maximum.
3. To enclose 600 volts insulation class current transformers on indoor or outdoor meter installations.
4. For installing 2 or 3 current transformers only with provisions to bypass, remove, or replace while energized.

| PREVIOUS REVISION | ORIGINATED | PREVIOUS NUMBER |
|---|---|---|
| 04-01-10 | 03-94 | ER 15-446-A, 07-14-88 |

**LATEST REVISION:** Added Galva-Closure Products Co. C.T. Cabinets to Approved Manufacturers. General revision to rest of standard.

**SPECIFICATION:**

**1. GENERAL:**

1.1 All current carrying parts should be designed on the basis of 1,000 amperes per square inch capacity for copper and 700 amperes per square inch for aluminum.

1.2 Dimensions shown are minimum.

1.3 Spacing between opposite polarity live parts and between live parts and ground mounted on the same surface not over 600 volts shall be a minimum of 2 inches and 1 inch, respectively, in accordance with the National Electrical Code, 408.56, latest revision.

1.4 Cabinets shall be marked by the manufacturer with the voltage, current rating, number of phases for which they are designed, and with the manufacturer's name or trademark so as to be visible after installation, without disturbing interior parts or wiring, in accordance with National Electric Code, 408.58, latest revision.

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## 2. SPECIFICATIONS FOR INDOOR OR OUTDOOR CABINET:

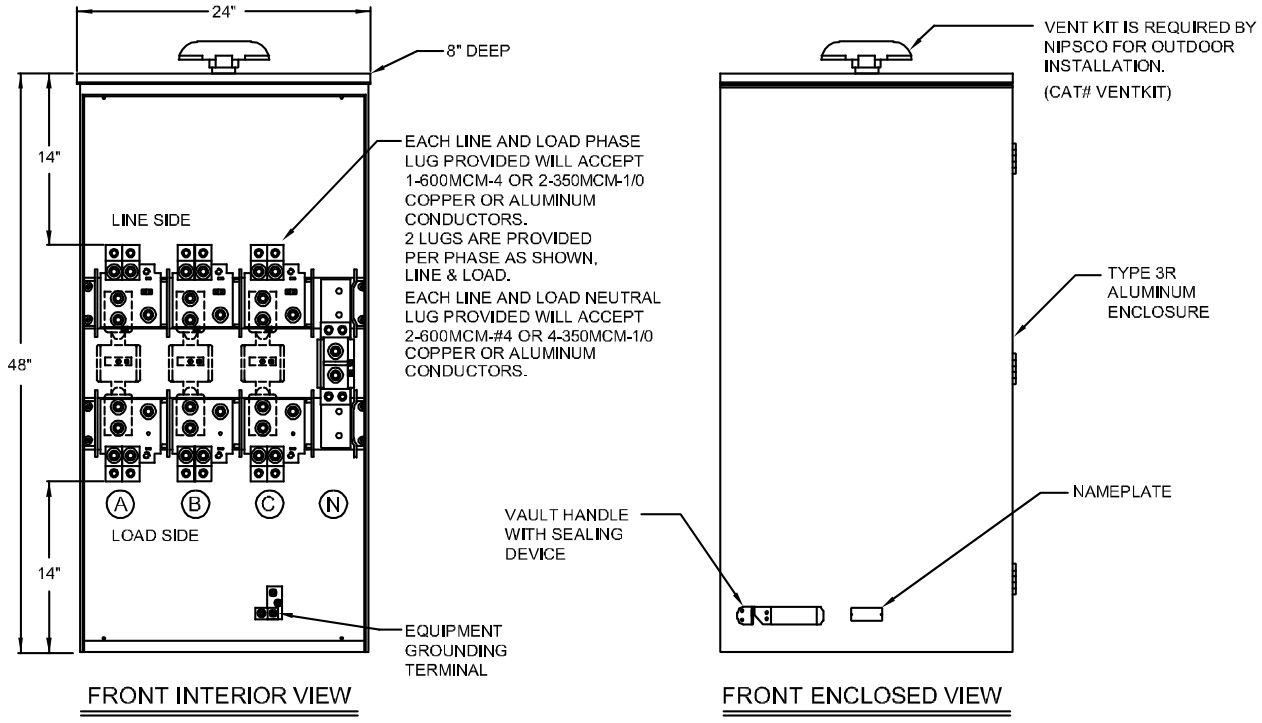
2.1 Cabinet:

2.1.1 Minimum Dimensions:

40 Inches High
8 Inches Deep
28½ Inches Wide - without Insulator Barriers
24 Inches Wide - with Insulator Barriers

2.1.2 Material - Minimum 14 gauge steel with enamel finish or 0.10 inch aluminum.

2.1.3 Front cover or door to be hinged and provided with sealing device so constructed that one (1) padlock seal will effectively prevent opening or partially opening of the cover or door.



2.2 Current Transformer Primary Connection Plate:
- 2.2.1 Material - 1/4" x 4" x 5" copper, or 1/4" x 5" x 5" aluminum.
- 2.2.2 Drilled and tapped for current transformer, cable lug, and bypass jumper bolts.
- 2.2.3 Drawing shows 6 plates for mounting 3-600 volt class current transformers. When only 2 current transformers are required, omit neutral and provide center phase link.

2.3 Neutral Connection plate:
- 2.3.1 Material - Copper or aluminum, 24" or 28 ½" cabinet.
- 2.3.2 Drilled and tapped for cable lug bolts, #10-24 brass potential tap screw, and drilled for mounting bolts.

2.4 Bolts:
- 2.4.1 Material - Steel, zinc plated, ½" - 13 thread, with flat washer and hex head nuts.
  - 2.4.1.1 For mounting CT's- 2-1/2" long, 8 req'd for 2 CT's, 12 req'd for 3 CT's.
  - 2.4.1.2 For mounting terminal lug- 2-1/2" long, 4 req'd for 2 CT's, 6 req'd for 3 CT's.
  - 2.4.1.3 For mounting terminal lug & bypass jumper--3" long, 4 req'd for 2 CT's, 6 for 3 CT's.
  - 2.4.1.4 For mounting two hole terminal lugs on neutral plate--3" long, 2 req'd.
- 2.4.2 Material - Steel, zinc plated, 1/4" - 20 x 1-1/2" for mounting insulator bus, 8 req'd.
- 2.4.3 Material - Steel, zinc plated, #10 - 24 x ½" with washer, for potential tap in neutral plate, 1 req'd.

2.5 Lugs:

Two hole cable terminal lug furnished for 2-500 KCM or larger copper conductors per phase: 6 req'd for 2 CT's, 8 req'd for 3 CT's

2.6 Knockouts Hubs:

Size and location by Customer when req'd.

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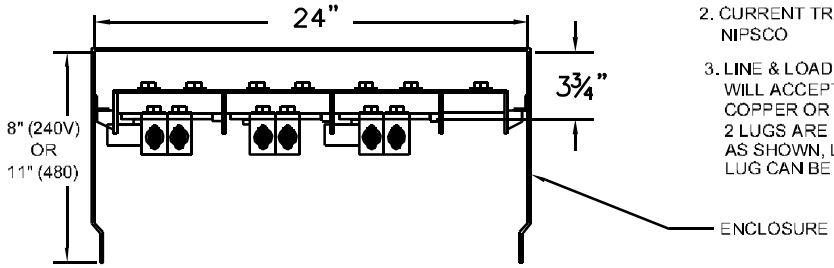
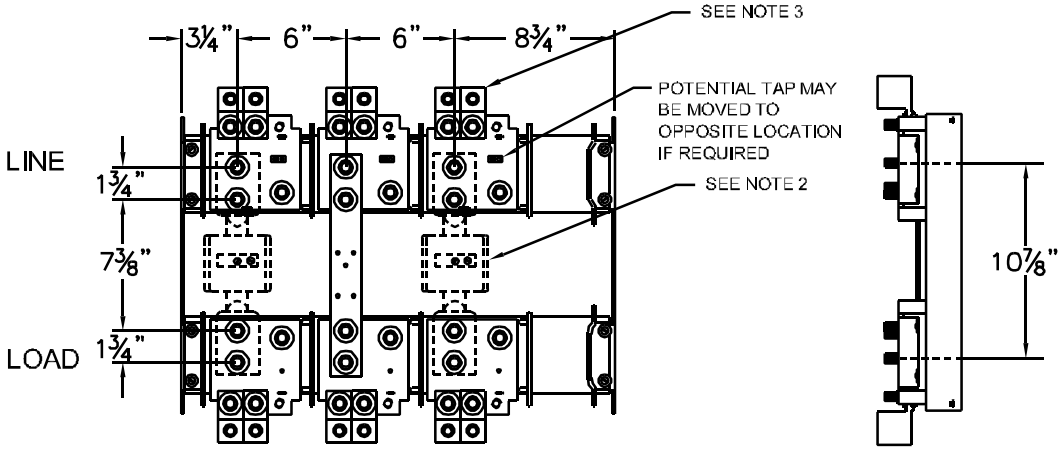
GENERAL NOTES:

1. C/T AND LUG LANDING PADS AND NEUTRAL ARE RATED 800 AMPS.
2. CURRENT TRANSFORMERS ARE PROVIDED BY NIPSCO
3. LINE & LOAD PHASE LUG PROVIDED WILL ACCEPT 1-600MCM-#4 OR 2-350MCM-1/0 COPPER OR ALUMINUM CONDUCTORS. 2 LUGS ARE PROVIDED PER PHASE AS SHOWN, LINE & LOAD. 1 ADDITIONAL LUG CAN BE ADDED WITHOUT MODIFICATION.



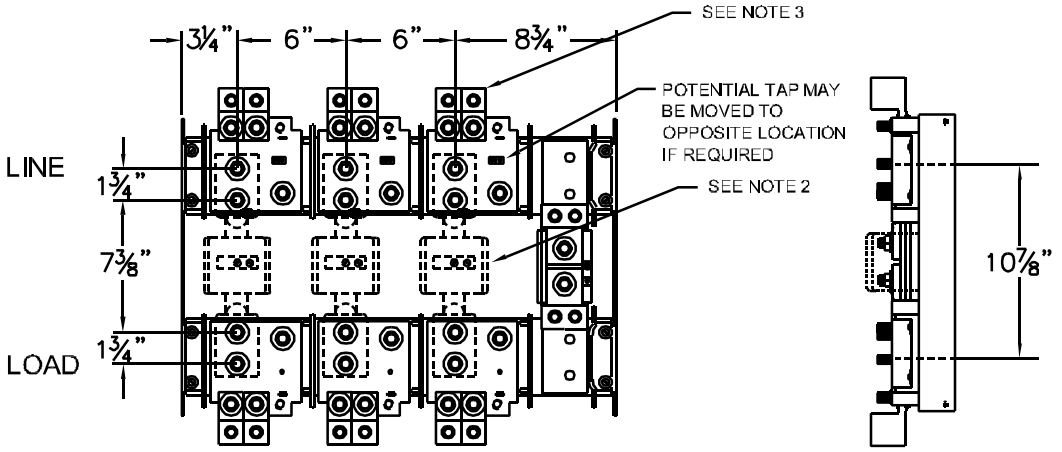

TOP VIEW




3 PHASE - 3 WIRE

FRONT VIEW

SIDE VIEW




3 PHASE - 4 WIRE

FRONT VIEW

SIDE VIEW

LESS NEUTRAL

**3. ADDITIONAL SPECIFICATIONS FOR OUTDOOR CABINET:**

3.1 Cabinet:

3.1.1 The door or front cover shall be made rain tight and the top shall be protected with a rain shield.

3.1.2 Rain tight screened vent shall be located in upper portion of the cabinet.

3.1.3 All conduit shall enter the cabinet through the sides or bottom or through the rain tight hub on the top.

3.1.4 All hardware shall be rust resistant.

**4. APPROVED MANUFACTURERS**

| Manufacturer | Phases | Wire | Number of CT's | Catalog Number Indoor / Outdoor |
|---|---|---|---|---|
| Erickson Electrical Equip. Co.<br>475 Bonnie Ln.<br>Elk Grove Village, Illinois | 1 or 3 | 3 | 2 | 283-1* |
| | 3 | 4 | 3 | 283-2* |
| Galva-Closure Products Co.<br>1236 East Street<br>Stoughton, Wisconsin | 1 | 3 | 2 | NIP-813 |
| | 3 | 3 | 2 | NIP-833 |
| | 3 | 4 | 3 | NIP-834 |

* - Optional vent kit (CAT#VENTKIT) must be ordered and installed for outdoor installations.