



# High Accuracy, Low Cost, Current Transformers For Power & Energy Monitoring

## Features

- Low ratio and phase angle error
- 5 standard sizes
- Nickel alloy core

## Specifications

### Frequency:

50 and 60 Hz

### Insulation Resistance:

100 M ohm @ 500 Vdc

### High Potential:

2000 volts

### Storage Temperature:

-25°C to 70°C

### Operating Temperature:

-25°C to 55°C

### Case Material:

Polypropylene Resin

### Construction:

Epoxy Encapsulated



| DATA POINT | Maximum Linearity Error % |           | Maximum Phase Angle Error in Minutes |           |
|------------|---------------------------|-----------|--------------------------------------|-----------|
|            | 0.1 class                 | 0.2 class | 0.1 class                            | 0.2 class |
| 0.025 x Ir | ± 0.2                     | ± 0.6     | ± 10                                 | ± 30      |
| 0.05 x Ir  | ± 0.16                    | ± 0.5     | ± 8                                  | ± 25      |
| 0.2 x Ir   | ± 0.12                    | ± 0.3     | ± 6                                  | ± 15      |
| 1.0 x Ir   | ± 0.10                    | ± 0.2     | ± 5                                  | ± 10      |
| 1.2 x Ir   | ± 0.10                    | ± 0.2     | ± 5                                  | ± 10      |

## Applications

- Watt-hour meters
- Sub-metering
- Power monitoring
- Current measurements
- Over/under current sensing

## Part Numbers And Outline Dimensions

| PART NUMBERS  | A           | B            | C         | D            | E          | F          | G           | H            | I            | J            | K          | L         | M          | NUMBER OF SECONDARY TURNS | RATED CURRENT AMPS, RMS (Ir) | Figure |
|---------------|-------------|--------------|-----------|--------------|------------|------------|-------------|--------------|--------------|--------------|------------|-----------|------------|---------------------------|------------------------------|--------|
|               | min.        | max.         | max.      | ± .04 (±1.0) | max.       |            |             | ±.012 (±0.3) | ±.012 (±0.3) | ±.012 (±0.3) |            |           |            |                           |                              |        |
| CR8348-2500-N | .271 (6.9)  | .925 (23.5)  | .433 (11) | .118 (3)     | .984 (25)  | .040 (1.0) | .075 (1.90) | .60 (15.24)  | .75 (19.05)  | .374 (9.5)   |            |           |            | 2500                      | 5                            | 1      |
| CR8349-2500-N | .354 (9)    | 1.024 (26)   | .669 (17) | .118 (3)     | 1.102 (28) | .040 (1.0) | .079 (2.00) | .59 (15.00)  | .75 (19.00)  | .61 (15.50)  |            |           |            | 2500                      | 40                           | 1      |
| CR8350-2500-N | .504 (12.8) | 1.476 (37.5) | .551 (14) | .118 (3)     | 1.535 (39) | .040 (1.0) | .15 (3.81)  | 1.00 (25.4)  | 1.30 (33.02) | .50 (12.7)   |            |           |            | 2500                      | 60                           | 1      |
| CR8351-2000-N | .772 (19.6) | 1.969 (50)   | .748 (19) | .137 (3.5)   | 2.204 (56) | .059 (1.5) | .591 (15)   | 1.181 (30)   | 2.362 (60)   | .394 (10)    | .169 (4.3) | 3.15 (80) | .040 (1.0) | 2000                      | 200                          | 2      |
| CR8459-2000-N | .760 (19.3) | 1.862 (47.3) | .748 (19) |              |            |            |             |              |              |              |            |           |            | 2000                      | 200                          | 3      |
|               |             |              |           |              |            |            |             |              |              |              |            |           |            |                           |                              |        |

## NOTES:

1. Specify part number and accuracy class when ordering
2. Custom styles available
3. Silicon/Steel models available in 0.5, 1.0 and 3.0 class

All dimensions: inches (mm)

# High Accuracy, Low Cost, Current Transformers For Power & Energy Monitoring

## Outline Drawings

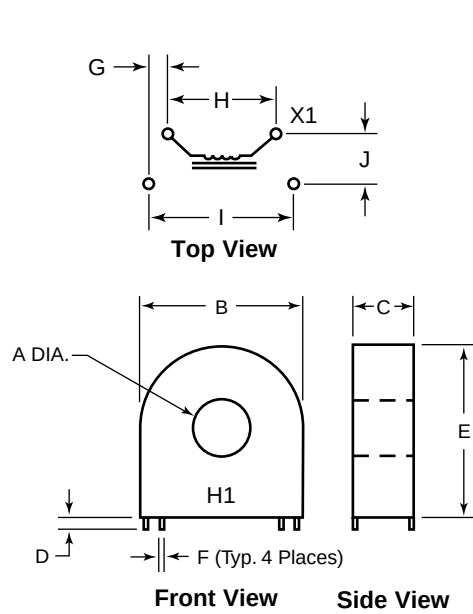


Figure 1

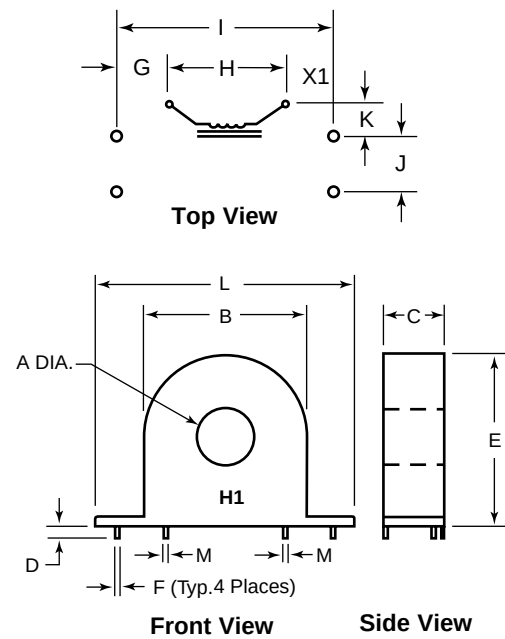


Figure 2

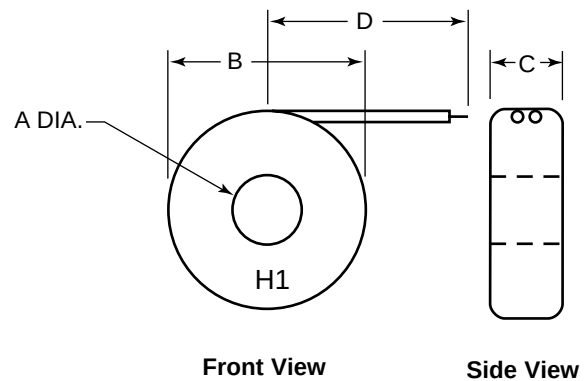


Figure 3

Figure 4