



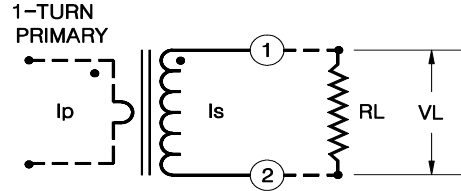
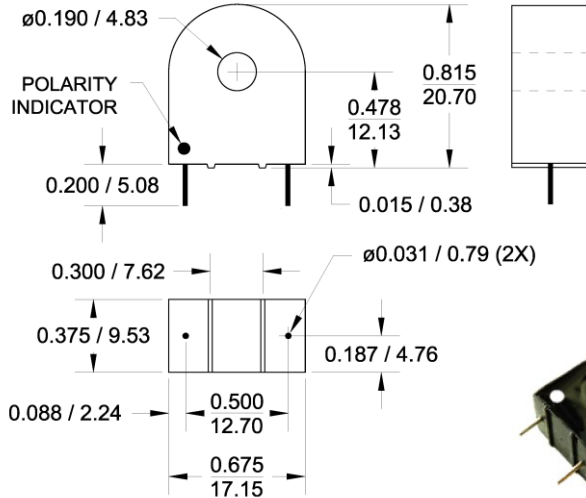
10 A Current Transformer Model C24

Electrical Specifications:

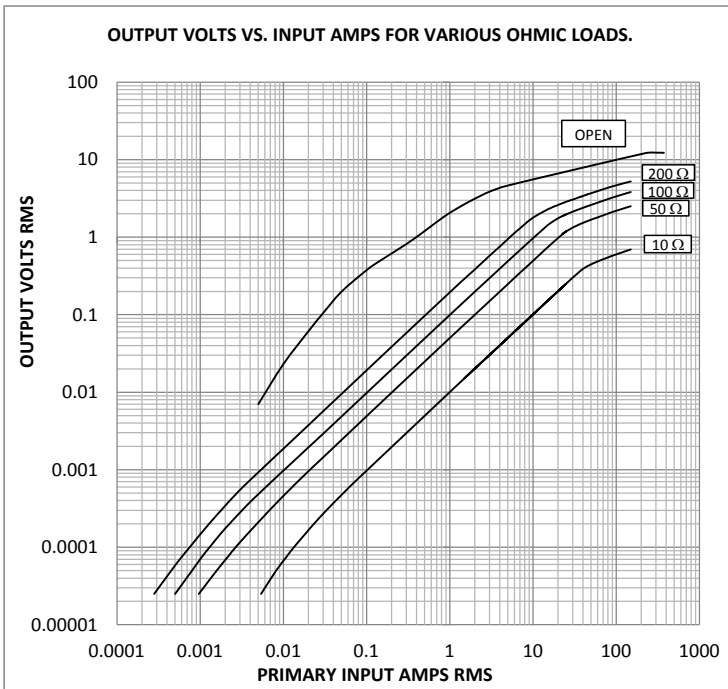
Turns Ratio: 1000:1 Nominal.
 Nominal Load: 100 Ohms.
 See chart and table below for rated currents at other loads.
 Maximum output Voltage: 15.0 Vrms at 60Hz.
 Operating Frequency Range: 20 Hz. - 5 kHz.
 DC Resistance at 20°C: 56 ohms \pm 10%
 Series inductance at 0.1V to 1V, 50Hz.: 4H MIN.
 Dielectric Withstanding Voltage (DWV): 1.5 kV

Other Specifications:

Flammability: Conforms to UL94-V0
 Pins: Tin plated round copper, 0.032" dia (#20 AWG)
 Storage Temp. Range: -55°C- +130°C
 Current for 30°C temp. rise: 71A RMS
 Net wt.: 8.2 gm.
 All dimensions are in inches/mm.
 Tolerance: \pm 0.005 / 0.13
 Marking: GMC24 YY-WW (datecode)



I_p : Primary Current
 I_s : Secondary current
 V_L : Output voltage across load RL
 R_L : Terminating Resistor
 In the linear range,
 $I_p = V_L \times N / R_L$
 Where N is the nominal ratio of the transformer



Notes:

- 1: The terminating resistor and the one-turn primary are not supplied.
- 2: Dot indicates pin with positive polarity when positive current flows into face with dot on it.
- 3: For Right pin polarity, add -R to P/N. ie. C24-R
- 4: Custom marking available at no extra charge.
- 5: Other ratios available upon request.

| Linear Range of Operation | | | |
|---------------------------|----------------|--|--|
| Load RL | Volts per Amp. | Current Range for \pm 1% Accuracy Amp. | Current Range for \pm 3% Accuracy Amp. |
| OHM | V/A | | |
| 10 | 0.01 | 0.30 - 34 | 0.15 - 40 |
| 50 | 0.05 | 0.15 - 17 | 0.03 - 22 |
| 100 | 0.1 | 0.10 - 7 | 0.02 - 14 |
| 200 | 0.2 | 0.10 - 3 | 0.02 - 6 |

Values are for 60 Hz. Reduce top end of current range by 20% at 50 Hz.

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