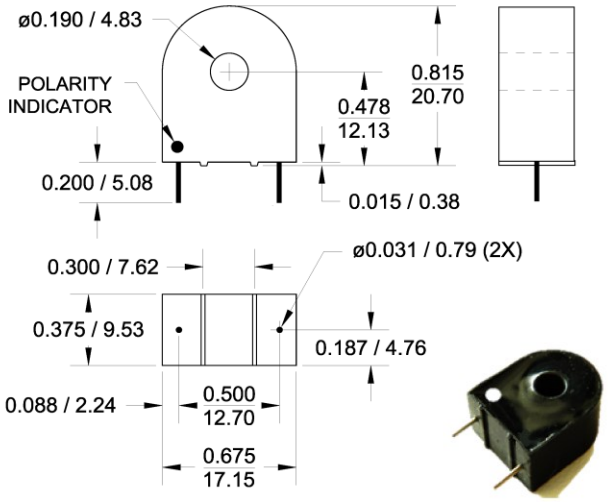
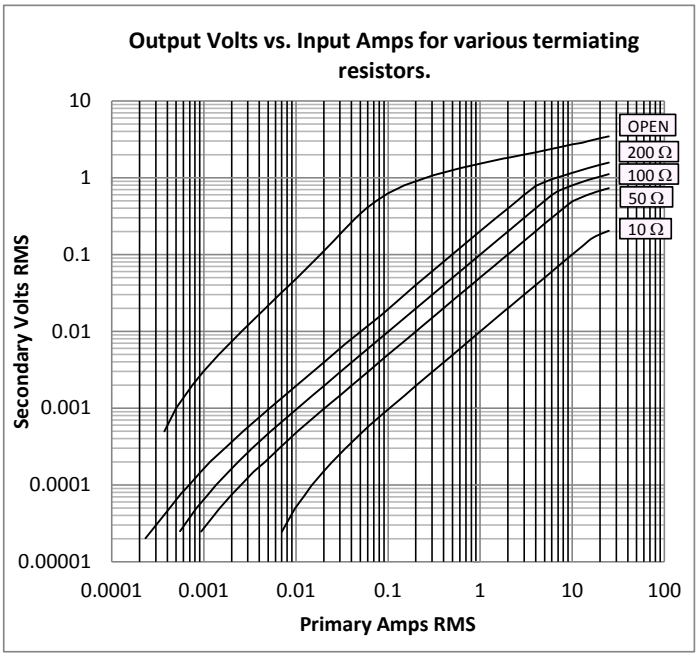
5 A Current Transformer Model R24

Electrical Specifications:

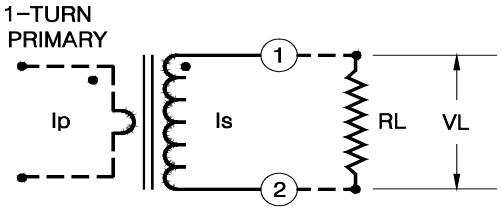
Turns Ratio: 1000:1 Nominal.
Maximum output voltage possible at 60 Hz: 6.0 Vrms.
Operating Frequency Range: 20 Hz. - 10 kHz.
Max. Rated Current: 6A at 100 ohm. See chart and table below for suitable current ranges at other loads.
DC Resistance at 20°C: 48 ± 10% OHMS
Series inductance at 0.1V, 50Hz.: 8.0 H MIN.
Dielectric Withstanding Voltage (DWV): 4 kV





Other Specifications:

Flammability: Conforms to UL94-V0
Pins: Tin plated round copper, 0.031" dia (#20 AWG)
Storage Temp. Range: -55°C- +130°C
Line current for 30°C temperature rise: 71 A rms
Net wt.: 6.4 gm. ± 10%
All dimensions are in inches/mm.
Tolerance: ± 0.005 / 0.13
Marking: GMR24 YY-WW (datecode)



Ip: Primary Current
Is: Secondary current
VL: Outut voltage across load RL
RL: Terminating Resistor
In the linear range,
Ip = VL X N / RL ± 1%
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. R24-R
4: Custom marking available at no extra charge.
5: Other ratios available upon request.

Linear Range of Operation

Load RL OHM	Volts per Amp (V/A)	Current Range for ±1% linearity(A)
10	0.01	0.80 - 16
50	0.05	0.10 - 9.4
100	0.1	0.10 - 6.2
200	0.2	.20 - 3.5

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

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