



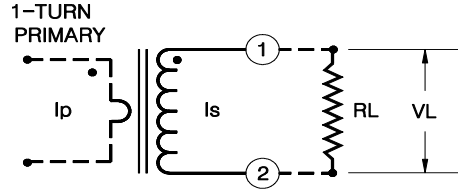
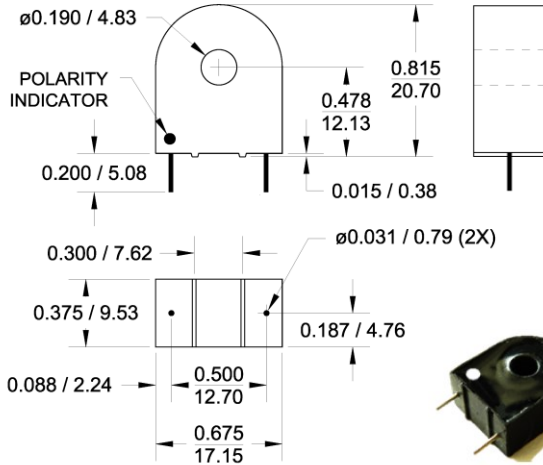
20 A Current Transformer Model R127

Electrical Specifications:

Turns Ratio: 2000:1 Nominal.
 Rated Current for 100 ohms load: 20A, 60Hz.
 See chart and table below for rated current at other loads.
 Max output Voltage: 18.0 Vrms at 60Hz.
 Operating Frequency Range: 20 Hz. - 5 kHz.
 DC Resistance at 20°C: 209 ohms ± 10%
 Series inductance: 48 H MIN. 1.0V, 50 Hz.
 Dielectric Withstanding Voltage (DWW): 4.0 kV

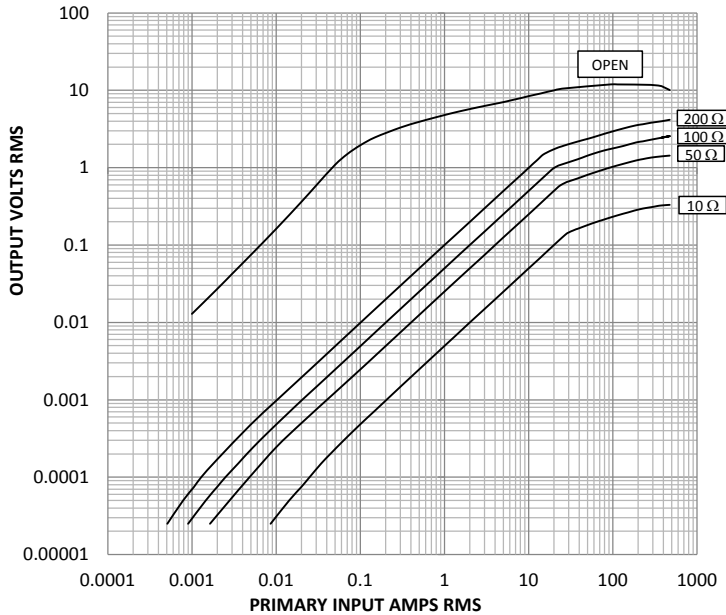
Other Specifications:

Flammability: Conforms to UL94-V0
 Pins: Tin plated round copper, 0.032" dia (#20 AWG)
 Storage Temp. Range: -55°C- +130°C
 Line current for 30°C temperature rise: 78 A.
 Net wt.: 9.0 gm.
 All dimensions are in inches/mm.
 All tolerances are ± .005 / 0.13
 Marking: GMR127 YY-WW (datecode)



I_p : Primary Current
 I_s : Secondary current
 V_L : Output voltage across load R_L
 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.

OUTPUT VOLTS VS. INPUT AMPS FOR VARIOUS OHMIC LOADS.



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. R127-R
- 4: Custom marking available at no extra charge.
- 5: Other ratios available upon request.

Linear Range of Operation		
Load R_L	Volts per Amp	Current Range for ± 1% Accuracy
OHM	(V/A)	
10	0.005	1 A - 28 A
50	0.025	0.50 A - 23 A
100	0.05	0.15 A - 20 A
200	0.1	0.10 A - 14 A

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

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