



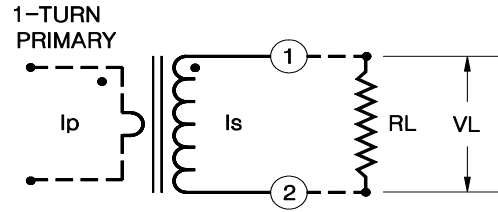
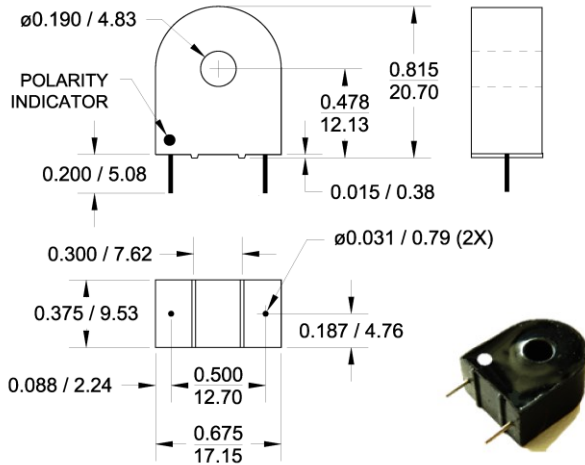
# 15 A Current Transformer Model R27

### Electrical Specifications:

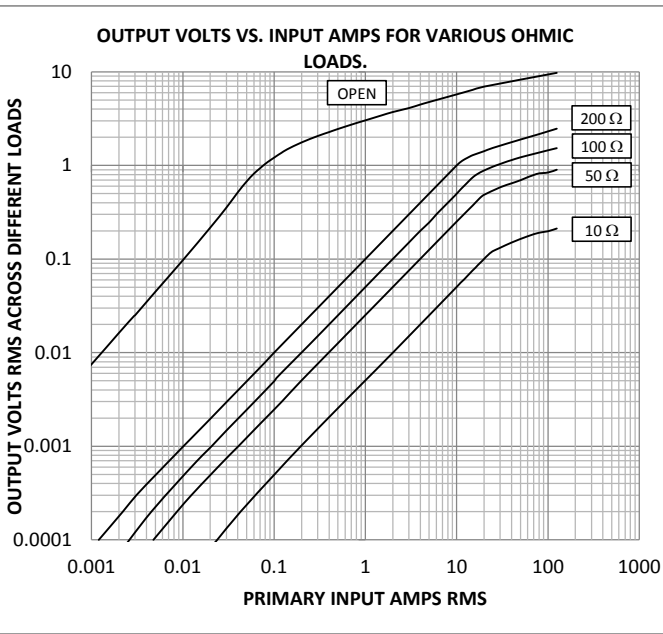
Turns Ratio: 2000:1 Nominal.  
 Rated Current: 15 A at 100 Ohms.  
 See table below for other loads.  
 Max output Voltage: 12.0 Vrms at 60Hz.  
 Operating Frequency Range: 20 Hz. - 5 kHz.  
 SRF: 5 kHz. MIN.  
 DC Resistance at 20°C: 156 ± 10% OHMS  
 Series inductance at 1V, 50Hz.: 30H MIN.  
 Dielectric Withstanding Voltage (DWV): 4 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: 80A rms  
 Net wt.: 6.4 gm.± 10%  
 All dimensions are in inches/mm.  
 Tolerance: ± 0.005 / 0.13  
 Marking: GMR27 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 500 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. R27-R
- 4: Custom marking available at no extra charge.
- 5: Other ratios available upon request.

Linear Range of Operation			
Load $R_L$ OHM	Volts per Amp (V/A)	Current Range for ±1% Linearity (A)	Current Range for ±3% Linearity (A)
10	0.005	0.10 - 23	0.20 - 25
50	0.025	0.50 - 18	0.20 - 20
100	0.05	0.10 - 15	0.03 - 16
200	0.1	0.10 - 10	0.05 - 11

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