

AC1005 • 5 Amp Current Transformer

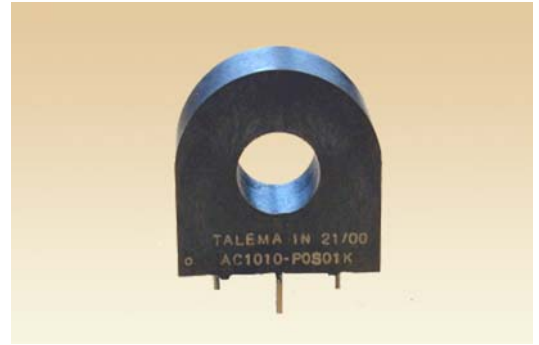
Low Cost 50/60Hz Current Transformers

Applications

- Sensing Overload Current
- Ground fault detection
- Metering
- Analog to Digital Circuits

Features

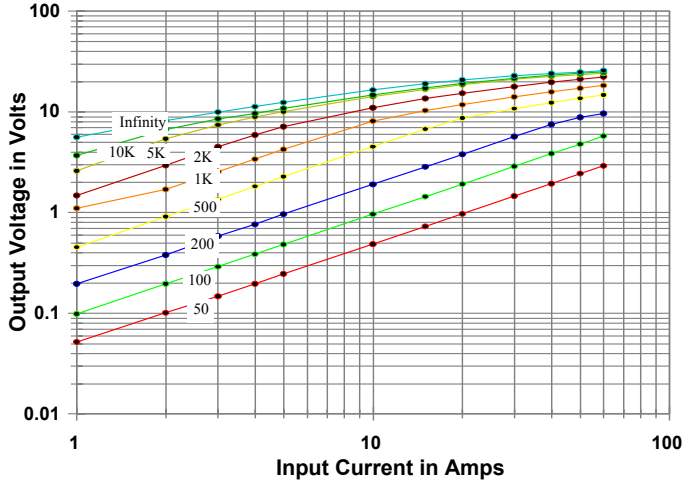
- Competitive pricing due to high volume production
- Confirms to UL94V-0
- Manufactured in an ISO 9001:2015 and ISO 14001:2015 certified Talema facility
- Fully RoHS & REACH Compliant



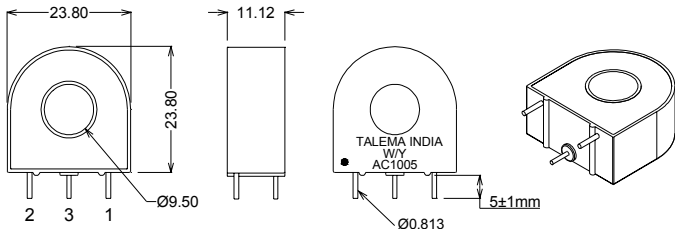
Environmental Specifications	
Storage Temperature	-55° to +130°C
Insulation Resistance	100 megohms min.

Electrical Specifications @ 20°C ambient	
Primary Current	5A nom., 60A max.
Turns Ratio	1000:1 nominal
Volt per Amp Ratio at 5A for 100 Ohms load	0.100 V/A
Volt per Amp Ratio at 0.5A for 100 Ohms load	0.096 V/A
DC Resistance at 20°C	41.8 Ohms
Dielectric Withstanding Voltage (Hi-pot)	4KVrms

**Output Volts vs Input Current
For various ohmic loads**

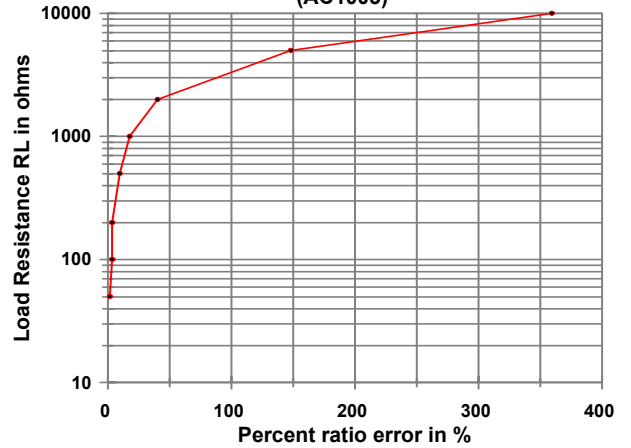


Mechanical Drawing

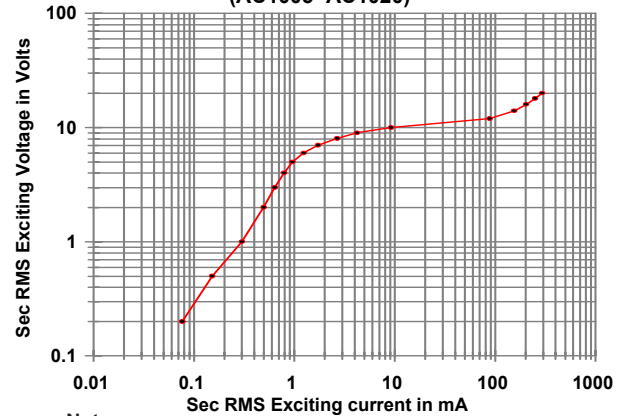


Dimensional Unit: mm
 Dimensional Tolerance: ±0.25mm (Unless Specified)
 Pin Pitch Tolerance: ±0.10mm

**%RE vs RL at Rated primary current
(AC1005)**

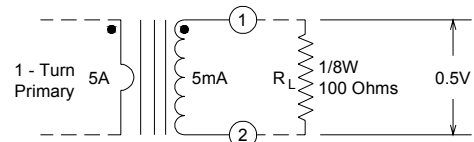


**Typical Excitation Curve
(AC1005~AC1020)**



Notes:

- 1) Unless requested, the terminating resistor and the one-turn primary are not supplied
- 2) Pin 3: Normally for mechanical support only but will be used on center tapped designs



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