

AC1005 • 5 Amp Current Transformer

Low Cost 50/60Hz Current Transformers

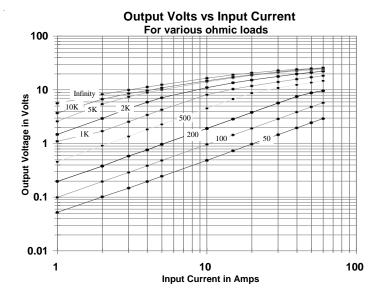
Applications

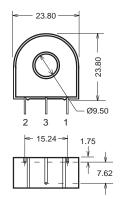
- Sensing Overload Current
- Ground fault detection
- Metering
- Analog to Digital Circuits
- Competitive pricing due to high volume production
- Manufactured in an ISO-9001:2000, TS-16949:2002 and ISO-14001:2004 certified Talema facility
- Fully RoHS compliant

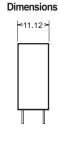
Electrical Specifications @ 20°C ambient

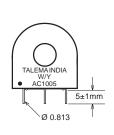
Electrical Specifications		
Primary Current	5A nom., 60A max.	
Turns Ratio	1000:1 nominal	
Volt per Amp Ratio at 5A for 100 ohm load	0.100 V/A	
Volt per Amp Ratio at 0.5A for 100 ohm load	0.096 V/A	
DC Resistance at 20°C	41.8 ohms	
Dielectric Withstanding Voltage (Hi-pot)	4KVrms	

Mechanical Specifications	
Case	Polycarbonate
Encapsulant	Ероху
Flammibility	Conforms to UL94-VO
Terminals	Pins Ø 0.80mm
Marking	TALEMA Date Code (W/Y) AC1005, Dot at start pin
Approximate Weight	16.3 grams
Tolerance	±0.2mm





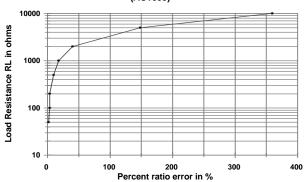




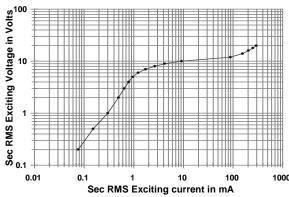


Environmental Specifications		
Storage Temperature	-55° to +130°C	
Insulation Resistance	100 megohms min.	

%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
- Pin 3: Normally for mechanical support only but will be used on center tapped designs

