



## AC1025 • 25 Amp Current Transformer

### Low Cost 50/60Hz Current Transformers

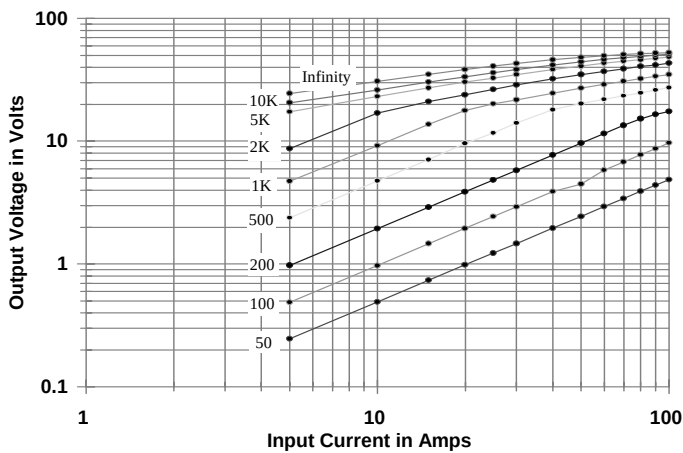
#### Applications

- 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

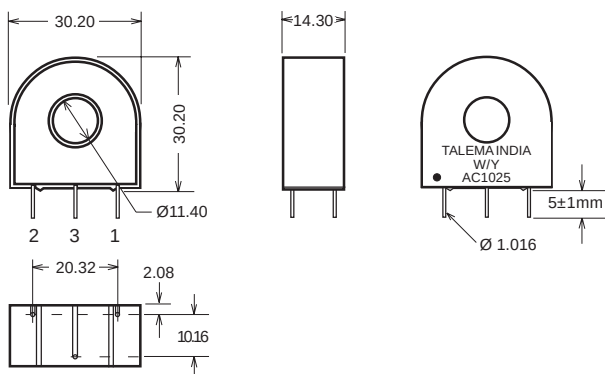
#### Electrical Specifications @ 20°C ambient

| Electrical Specifications                   |                                                       |
|---------------------------------------------|-------------------------------------------------------|
| Primary Current                             | 25A nom., 75A max.                                    |
| Turns Ratio                                 | 1000:1 nominal                                        |
| Volt per Amp Ratio at 25A for 100 ohm load  | 0.100 V/A                                             |
| Volt per Amp Ratio at 2.5A for 100 ohm load | 0.098 V/A                                             |
| DC Resistance at 20°C                       | 48 ohms                                               |
| Dielectric Withstanding Voltage (Hi-pot)    | 4KVrms                                                |
| Mechanical Specifications                   |                                                       |
| Case                                        | Polycarbonate                                         |
| Encapsulant                                 | Epoxy                                                 |
| Flammability                                | Conforms to UL94-VO                                   |
| Terminals                                   | Pins Ø 1.0mm                                          |
| Marking                                     | TALEMA<br>Date Code (W/Y)<br>AC1025, Dot at start pin |
| Approximate Weight                          | 35.5 grams                                            |
| Tolerance                                   | ±0.2mm                                                |

Output Volts vs Input Current  
For various ohmic loads



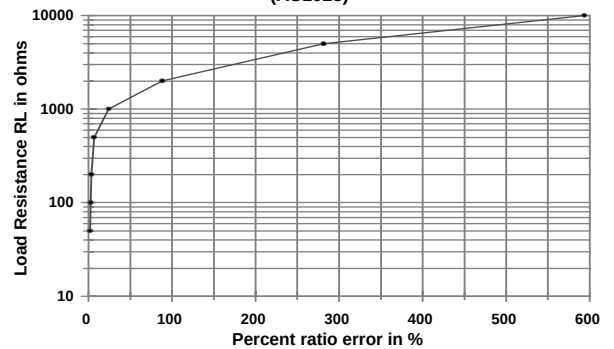
Dimensions



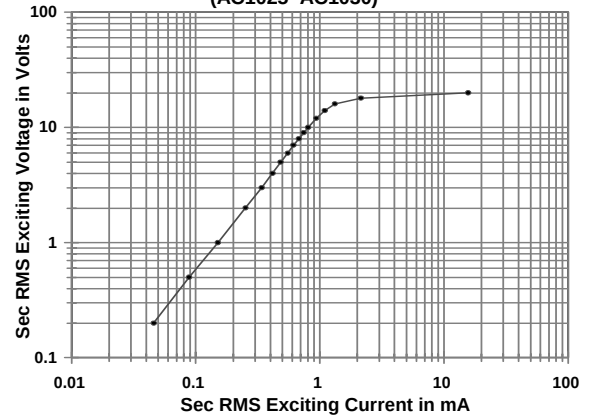
#### Environmental Specifications

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

%RE vs RL at Rated primary current  
(AC1025)



Typical Excitation Curve  
(AC1025-AC1030)



#### 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

