

## Solid-core, Toroidal Current Transformer

The **CTT0720** series of toroidal current transformers are designed for applications where a high over-current capability is a desirable feature. Typically used in 380VAC or 660VAC protection circuits, these CTs offer superior step-down transformation to typical microprocessor circuitry levels.



### Features:

**Rated Primary Current:** Maximum primary current 1000A

### Secondary Output:

- 0.333V to 7.07V @ Rated Current, or
- mA, standard winding ratios –
  - 1:1000, 1:2000
  - 1:3000, 1:5000

### Specifications:

- Frequency: 50 to 400 Hz
- Dielectric Resistance: 1,000 M ohms @ 500 VDC
- Isolation Voltage: 2500 V<sub>RMS</sub> for 1 minute, 0.5mA
- Surge withstand potential: 5,000V (1.2/50 $\mu$ s standard shock wave)
- Operating Temperature: -40°C to +85° C
- Rated Load Resistance:
  - mV output:  $\geq$  100k Ohms.
  - mA output:  $\leq$  200 Ohms.

### Construction:

- Core material: Silicon Steel CRGO (cold rolled grain oriented).
- Epoxy encapsulated housing.
- Case material – PBT or ABS, UL flame retardant rating 94 V-0.
- Lead Wire: 0.61m (2Ft), AWM 1015, Twisted Pair, 0.34mm<sup>2</sup> (22AWG), 600V, WHITE/ BLACK.
- Lead Termination: Stripped & tinned.
- CE Certified
- RoHS Compliant



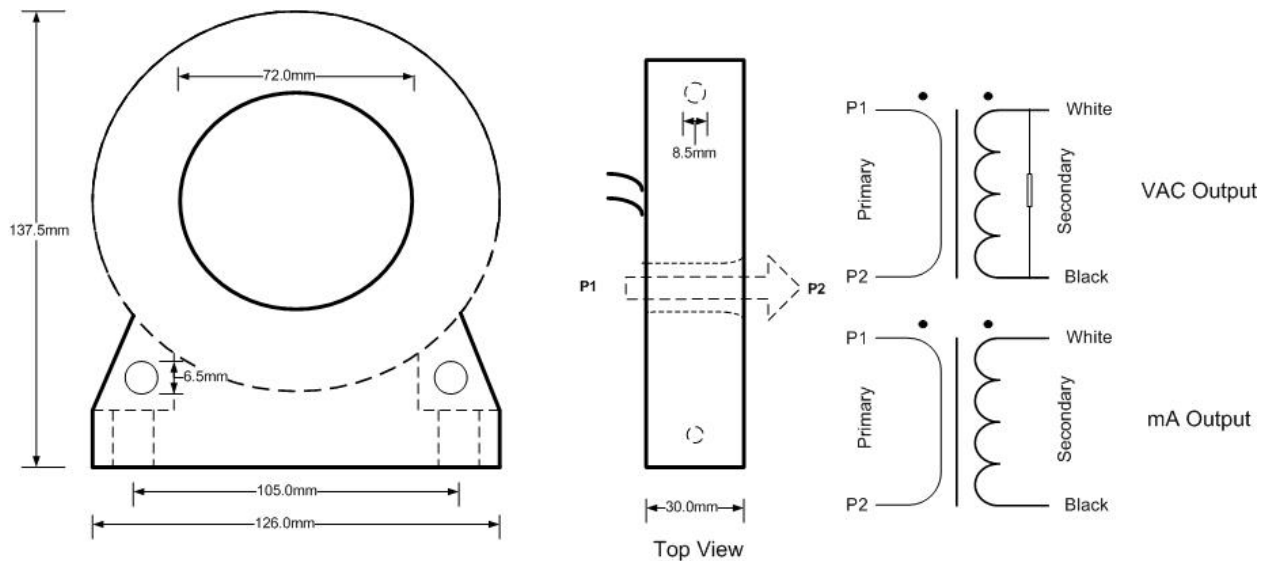
### Performance:

- Accuracy Class: 0.5, 1.0 (IEC 60044-1)
- Linearity:  $\pm$ 1% from 10% to 120% of Rated Current
- Phase Shift Error:  $\leq$  10'
- Over load Multiple: 6 time rated primary current.

**Performance Options:**

Ratio	Output @ Rated Current	Accuracy Class	Over Current Multiple	Over Current Persistence Time (seconds)
1:2000	0.333V to 7.07v OR mA	0.5 1.0	10	2
1:4000				
1:5000				

**Outline Drawing:**



Custom toroidal current transformer designs are available to meet the specific application requirements. For a no obligation technical evaluation, please provide the specific performance requirements to [engineering@tichenassociates.com](mailto:engineering@tichenassociates.com) or the address below.