

# CTS Series of Split Core Current Transformers

The Zibo Yuanxing Electronics **CTS** series of split core style current transformers are designed for fast and easy installation. The split core design permits non-contact current measurements through magnetic field induction without requiring that the primary wire be taken offline and disconnected for CT installation. This method permits a safer, easier and portable current measurement.

An internal precision burden resistor across the secondary winding of the CT provides a safe low voltage output and permits safe opening of the secondary.

## Features:

- Split core design offers safer, easier installation, portable.
- Suitable for harsh operating environments.
- 3 standard sizes.

## Applications:

The CTS is incorporated with equipment that measure AC current flow for electric power measurement, power quality monitoring, Supervisory Control and Data Acquisition (SCADA) systems. Compatible with HVAC temperature control systems, power management systems, building automation systems.



## Specifications:

- Frequency Range: 50/60 Hz
- Output: 0.333 VAC at rated current.
- Accuracy:  $\pm 1\%$  from 10% to 130% of rated current.
- Phase Angle: less than 2 degrees at 50% of rated current.
- Insulation Voltage: 600 Vac
- Maximum Primary Voltage: 5,000 Vac (Insulated conductor)
- Construction:
  - Epoxy encapsulated,
  - Case ABS Resin (UL flame retardant rating 94V-O).
- Operating Temperature:  $-15^{\circ}\text{C}$  to  $+60^{\circ}\text{C}$
- Leads: 0.61 m (2 Ft), UL 1015, Twisted Pair,  $0.34\text{mm}^2$  (22AWG)
- UL Certified (File #E331000)
- RoHS compliant



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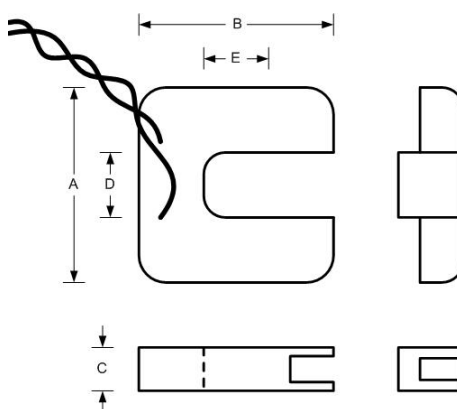
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**Part Numbers:**

Part Number	Rated (Amp)	MAX (amp)	Opening (mm/in)	Accuracy	Linearity Range
CTS0191-xxxx/0.333V	5, 10, 15, 20, 30, 50, 70, 100, 150A	200A	19.1/.75	± 1%	10%-130% of rated current
CTS0318-xxxx/0.333V	70, 100, 150, 200, 250, 300, 400, 600A	800A	31.8/1.25	± 1%	10%-130% of rated current
CTS0508-xxxx/0.333V	600, 800, 1000, 1200, 1500A	2000A	50.8/2.00	± 1%	10%-130% of rated current

**Outline Drawing:**



**Outline Dimension:**

Part Number	Dimension mm(inch)				
	A	B	C	D	E
CTS0191-xxxx	50.8 (2.00)	53.3 (2.10)	17.0 (0.67)	19.1 (0.75)	19.1 (0.75)
CTS0318-xxxx	82.5 (3.25)	85.1 (3.35)	27.0 (1.06)	31.8 (1.25)	31.8 (1.25)
CTS0508-xxxx	121.0 (4.75)	127.0 (5.00)	32.0 (1.20)	50.8 (2.00)	50.8 (2.00)

**Custom split-core current transformer designs** are available to meet the specific application requirements. Any of these models can be custom engineered for;

- Primary to secondary ratio,
- Secondary current output in lieu of 0.333V, and/ or
- Lead length, lead termination, etc.

For a no obligation technical evaluation, please provide the specific performance requirements to [engineering@tichenassociates.com](mailto:engineering@tichenassociates.com) or the address below.

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