

SOLID-CORE CURRENT TRANSFORMERS

Compact, Accurate, Tamper Proof, 5 to 400 Amps



Overview

Current transformers are devices used to measure current by converting primary alternating current to a safe low voltage (0.333 Vac) output for the measurement of power and energy. The solid-core defines how the CT core is designed, and how it can be installed. Solid core CTs feature a closed loop where the primary conductor must be passed or “threaded” through the silicon iron-core. The CTT series is designed for measuring service entrance and circuit currents where interruption during installation is acceptable. The CTT series of solid-core CTs is offered in five standard sizes and available for loads from 5 to 400 amps.

The CTT series CTs do not require shorting blocks because they contain an internal secondary burden resistor, so there is no possibility of high voltage on the secondary. The internal burden resistor converts the secondary current (mA) into a safe 0.333 Vac output. CTT CTs are intended for energy monitoring with accuracies of 1% of reading from 10% to 130% of rated current.

The CTT solid-core current transformer are designed for small to medium diameter circuits and are tamper proof, ideal for original equipment installations.

Features

- Ideal for new wiring, permanent installations
- Compact and accurate
- 0.333 Vac output
- No exposed metal
- Accuracy $\pm 1\%$ from 10% to 130% of rated current
- UL Recognized, CE

Model		Model		Model	
CTT-0300-(xxx) 0.30" I.D.		CTT-0500-(xxx) 0.50" I.D.		CTT-0750-(xxx) 0.75" I.D.	
Rated Amps	Model Suffix (xxx)	Rated Amps	Model Suffix (xxx)	Rated Amps	Model Suffix (xxx)
5	-005	15	-015	30	-030
15	-015	30	-030	50	-050
30	-030	50	-050	70	-070
		60	-060	100	-100

Model		Model	
CTS-1000-(xxx) 1.00" I.D.		CTT-1250-(xxx) 1.25" I.D.	
Rated Amps	Model Suffix (xxx)	Rated Amps	Model Suffix (xxx)
50	-050	70	-070
70	-070	100	-100
100	-100	150	-150
150	-150	200	-200
200	-200	250	-250
		300	-300
		400	-400

Dimensions

CTT-0300

Dimension	Inch	CM
A	0.30	.76
B	1.70	4.32
C	0.75	1.91

CTT-0500

Dimension	Inch	CM
A	0.50	1.27
B	1.90	4.83
C	0.75	1.91

CTT-0750

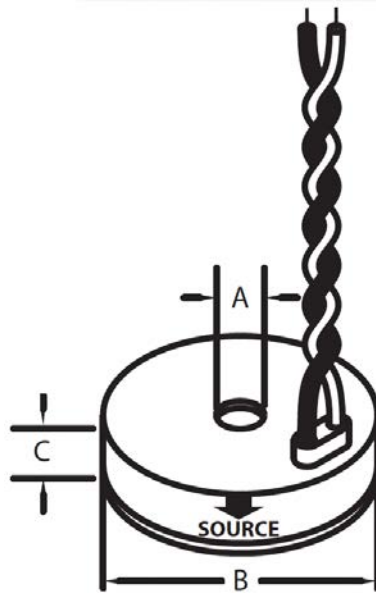
Dimension	Inch	CM
A	0.75	1.91
B	2.10	5.33
C	0.75	1.91

CTT-1000

Dimension	Inch	CM
A	1.00	2.54
B	2.40	6.10
C	0.80	2.03

CTT-1250

Dimension	Inch	CM
A	1.25	3.18
B	2.70	6.86
C	0.80	2.03



Specifications

- **Accuracy:** 1% from 10% to 130% of rated current
- **Standard Rated Current Models:** 0.30", 0.50", 0.75", 1.00", 1.250" internal diameter, 5 to 400 amps models
- **Line Frequency:** 50 to 60 Hz
- **Output Voltage at Rated Amps:** 0.333 Vac
- **Operating Temperature:** -20°C to +55°C
- **Safe:** integral burden resistor, no shorting block needed
- **Core Material:** silicon-iron
- **Standard Lead Length:** 8 ft, 22 AWG twisted pair, 600 Vac
- UL Recognized
- CE, RoHS compliant

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