



Hinged Split-Core Current Transformers-Standard Accuracy

Specification

#N2-AcuCT Series - 9/5/23

Overview

The Hinged Split-Core Current Transformers are designed to convert an AC operating current into a low voltage AC millivolt signal for use with microprocessor-based circuits that require maximum accuracy and precision. These ultra-compact and light-weight hinged split-core current transformers are designed for installation on branch circuits within the electrical panel. The Hinged Split-Core CT Series is ideal for easy installation without disconnecting cables. Hinged Split-Core CTs come standard unterminated stripped and tinned lead wires for easy connection to any of the Single or 3 Phase power meter.

For best accuracy, CTs should be selected based upon the size of the conductors being monitored by selecting the proper window size and referencing the expected maximum and minimum currents for the targeted application. The acceptable Measurement Current Range is referenced in the ordering grid table.

Applications: Retro Fitting Sub-Metering Electrical Panel, Equipment Load Monitoring, Industrial Applications, Predicted Maintenance, Renewable Energy, Overhead Cost Reduction, "NET ZERO" Buildings, LEED Buildings, Green Buildings, and Refrigeration.

The Hinged Split Core mV Output Current Transformers are covered by a Five (5) Year Limited Warranty.



Part Numbers

N2-AcuCT-H040-20:333	N2-AcuCT-H040-20:333-10M	N2-AcuCT-H040-30:333
N2-AcuCT-H040-40:333	N2-AcuCT-H040-50:333-10M	N2-AcuCT-H040-50:333
N2-AcuCT-H040-60:333	N2-AcuCT-H100-100:333	N2-AcuCT-H100-100:333-10M
N2-AcuCT-H100-200:333	N2-AcuCT-H100-200:333-10M	

Specifications

Monitored Current Type:	AC Current
Maximum Working Voltage:	600 VAC, Category III
Core Style:	Hinged Split-Core
Rated Output:	333mV @ 20/30/40/50/60/100/200 Amps (see ordering grid)
Operating Frequency Range:	50/60Hz
Sender Amperage Range:	See Ordering Grid
Accuracy1:	0.5% from 10-120% of Rated Current
Operating Temperature Range:	5 to 140°F (-15 to 60°C)
Storage Temperature Range:	-40 to 185°F (-40 to 85°C)
Op/Storage Humidity Range:	5 to 95%, non-condensing
Maximum Elevation:	9,842 ft (3 Kilometers)
Case Material/Flammability Rating:	Black Nylon/UL94V-0
Wiring Connections:	Stripped and Tinned Lead Wires
Lead Wire Colors:	White: Positive (+), Black: Negative (-)
Wire Size:	22 AWG (0.14 mm ²), 600V Rated VW-1, 105°C Black/Brown Twisted Pair (UL 1015)
Lead Length:	8.20' (2.5m) or 32.80' (10m) See Ordering Grid
Agency Approvals:	ULR, CE, & RoHS2 Compliant
Product Weight:	N2-AcuCT-H040 Series: 0.2lbs (0.09kg), N2-AcuCT-H100 Series: 0.4lbs (0.18kg)
Product Dimensions (L x W x H):	N2-AcuCT-H040 Series: 1.64" (41.66 mm) x 1.16" (29.47 mm) x 1.04" (26.42 mm) N2-AcuCT-H100 Series: 2.76" (70.11 mm) x 2.00" (50.80 mm) x 1.52" (38.61 mm)

Specifications subject to change without notice.

Dimensional Drawing

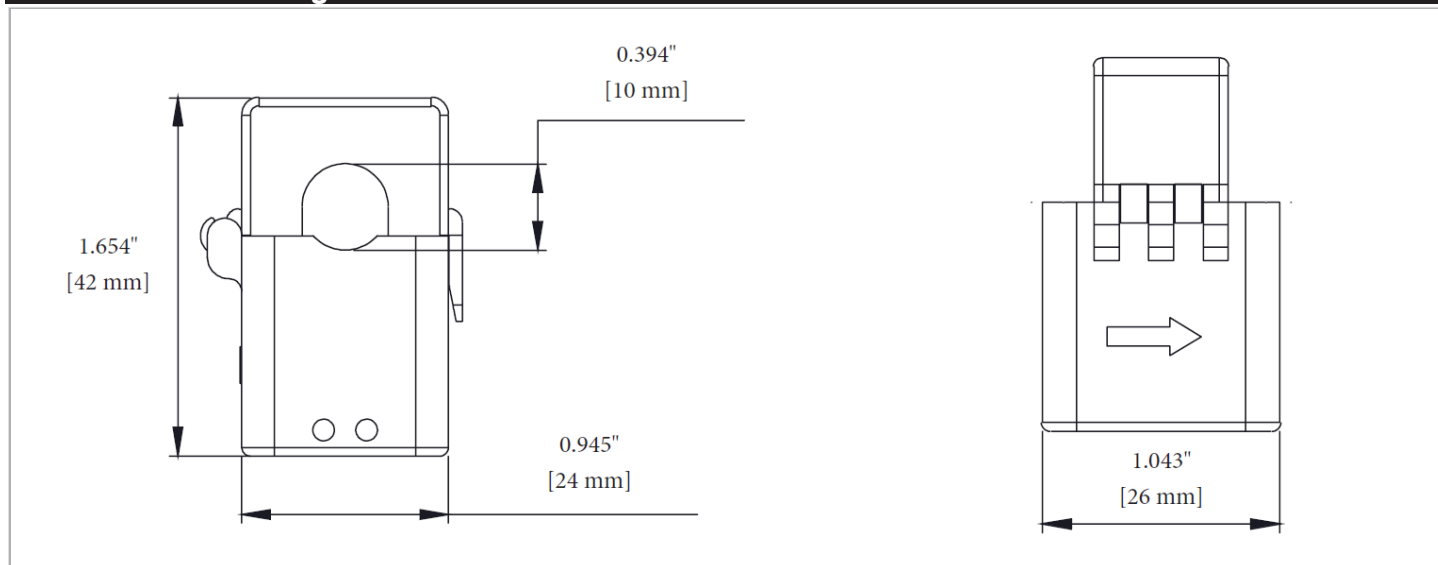


Figure 1: N2-AcuCT-H040

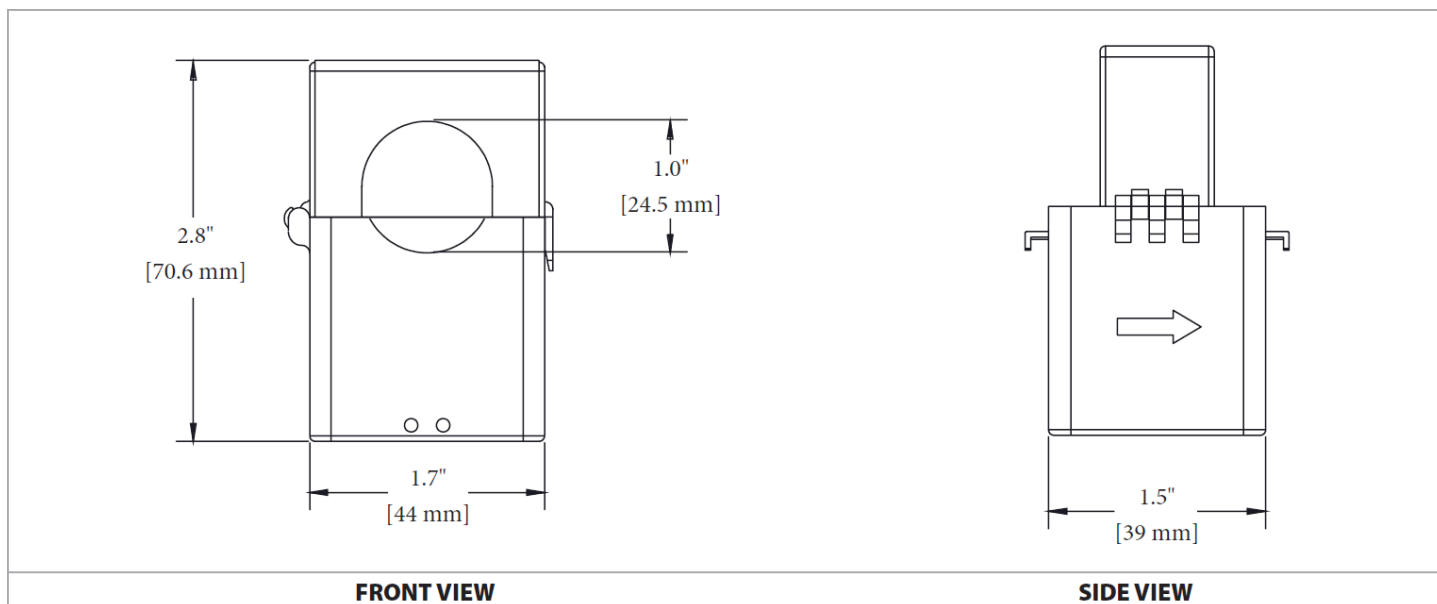


Figure 2: N2-AcuCT-H100



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Ordering Information

Part #	Rated Current	Window Size	Output Signal (At Rated Current)	Lead Length
N2-AcuCT-H040-20:333	20A	0.4" (10.2 mm)	333 mV @ 20A	8 ft (2.5m)
N2-AcuCT-H040-20:333-10M	20A	0.4" (10.2 mm)	333 mV @ 20A	32 ft (10m)
N2-AcuCT-H040-30:333	30A	0.4" (10.2 mm)	333 mV @ 40A	8 ft (2.5m)
N2-AcuCT-H040-40:333	40A	0.4" (10.2 mm)	333 mV @ 40A	8 ft (2.5m)
N2-AcuCT-H040-50:333-10M	50A	0.4" (10.2 mm)	333 mV @ 50A	32 ft (10m)
N2-AcuCT-H040-50:333	50A	0.4" (10.2 mm)	333 mV @ 50A	8 ft (2.5m)
N2-AcuCT-H040-60:333	60A	0.4" (10.2 mm)	333 mV @ 60A	8 ft (2.5m)
N2-AcuCT-H100-100:333	100A	1.00" (25.4 mm)	333 mV @ 100A	8 ft (2.5m)
N2-AcuCT-H100-100:333-10M	100A	1.00" (25.4 mm)	333 mV @ 100A	32 ft (20m)
N2-AcuCT-H100-200:333	200A	1.00" (25.4 mm)	333 mV @ 200A	8 ft (2.5m)
N2-AcuCT-H100-200:333-10M	200A	1.00" (25.4 mm)	333 mV @ 200A	32 ft (10m)

Appendix – Symbols Key

 Warning	Potential for death, serious injury, or permanent damage to a system.
 Caution	Potential for injury, damage to a system, or system failure.
 Tip	Useful information not related to injury or system damage.

W.E.E.E. DIRECTIVE

At the end of their useful life the packaging and product should be disposed of via a suitable recycling center. Do not dispose of with household waste. Do not burn.