

AcuCT R Series

AcuCT-5170R

Revenue Grade Split-Core
Current Transformer Datasheet



The AcuCT R Series CTs are premium, revenue grade split-core current transformers with a selection output options and class-leading accuracy. UL2808 Listed for guaranteed safety and quality, the AcuCT R Series combines a compact, durable form factor with a sturdy latch for added assurance in challenging applications. Installation is straightforward thanks to the user-friendly, press-open design.

Features

- Revenue grade accuracy: IEC 61869-2 Class 0.5 (from 5% - 120% of rated current)
- Choose from multiple voltage or current secondary output options including 5A and 333mV



Accuenergy Inc.

Los Angeles - Toronto - Pretoria
North America Toll Free: 1-877-721-8908
Web: www.accuenergy.com
Email: marketing@accuenergy.com

Revision Date: March 2025 Version: 1.0.3
Specs Subject To Change Without Notice



Specifications

RATED CURRENT	1000A, 1600A, 2000A, 3000A, 4000A, 5000A
Current Range	5% - 120% of rated current
Output	5A, 1A, 80mA, 100mA, 200mA, 333mV
Accuracy	IEC 61869-2 Class 0.5

MECHANICAL/ENVIRONMENTAL

Form Factor	Press Open Split-Core CT
Window Size	130.0mm x 180.0mm (5.10" x 7.00")
Exterior Dimensions	210.0mm x 260.0mm x 45.0mm 8.30" x 10.20" x 1.80"
Case Material	UL enclosure rated to 135°C (275°F)
Lead Wires	2.5m (8ft) UL 1015 18AWG
Operating Temperature	-25°C to 70°C / -13°F to 158°F
Operating Humidity	Non-condensing, 0 to 95% RH
Installation Conditions	Indoor Use

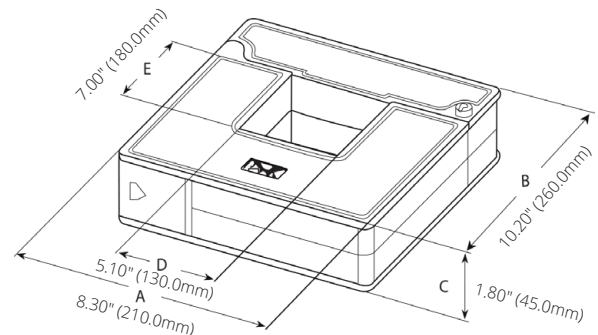
ELECTRICAL

Wire Polarity	White=Positive, Black=Negative
Phase Orientation	Arrow Points Towards Load
Frequency Range	50/60Hz
Output Resistance (Voltage Output)@333mV; burden@80mA, 100mA, 200mA, 5A, 1A	1600A/333mV: 1.56Ω / 3000A/333mV: 0.83Ω 4000A/333mV: 0.625 / 5000A/333mV: 0.5Ω / 80mA,100mA,200mA:10Ω / 1A: 1VA / 5A: 10VA

SAFETY/COMPLIANCE

Withstand Voltage	5.0KV/1mA/1min
Rated Voltage	600VAC, Rated CAT III
Certifications	CE, RoHS, UL Listed UL2808 (E469633) 61010-1 and CSA 22.2 IEEE 61869-2

Dimensions



Ordering Information

	Rated Input		Rated Output	
Ordering Number	AcuCT-5170R	-	:	
Ordering Example	AcuCT-5170R	-	2000	: 333mV
		1000:	1000A	1A
		1600:	1600A	5A
		2000:	2000A	333mV
		3000:	3000A	80mA
		4000:	4000A	100mA
		5000:	5000A	200mA