

# AcuCT-S433 Series

Instrument Solid-Core Current Transformer



The AcuCT S433 is used in permanent metering installations with rated outputs for 5A, 1A, 100mA, 80mA, 333mV. It provides consistent, reliable measurements across industrial and commercial for general metering applications.

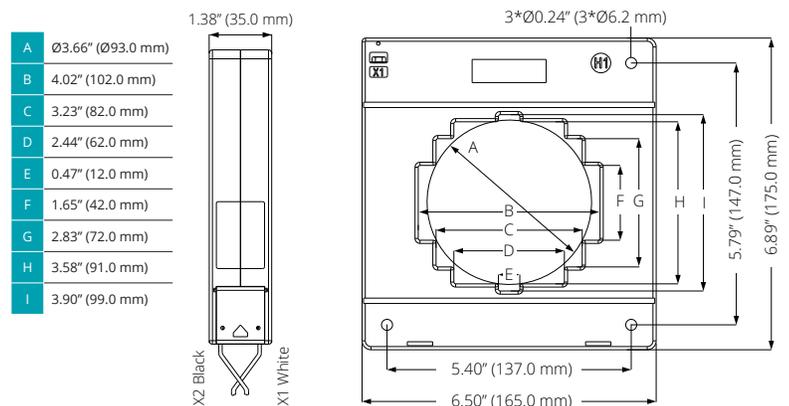
## Features

- Accuracy class: 0.5, 0.5S, 0.2
- Current input options: 800A, 1000A, 1500, 2000A, 2500A, 3000A, 3500A, 4000A
- Choose from five output options: 5A, 1A, 100mA, 80mA, 333mV

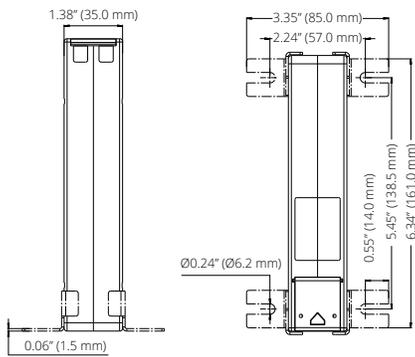
## Specifications

<b>RATED CURRENT</b>	800A, 1000A, 1500, 2000A, 2500A, 3000A, 3500A, 4000A
Current Range	5%-120% of rated current
Output	5A, 1A, 100mA, 80mA, 333mV
Accuracy	IEC 61869-2 0.5, 0.5S, 0.2
<b>MECHANICAL/ENVIRONMENTAL</b>	
Form Factor	Solid-Core CT
Window Size	Ø 93.0mm (3.66")
Exterior Dimensions	165.0mm x 175.0mm x 35.0mm 6.50" x 6.89" x 1.38"
Case Material	Epoxy encapsulated housing
Lead Wires	2.5m (8ft), Twisted Pair, 18AWG
Operating Temperature	-25°C to 70°C / -13°F to 158°F
Storage Temperature	-40°C to 80°C / -40°F to 176°F
Operating Humidity	<90% RH
Installation Conditions	Indoor Use
<b>ELECTRICAL</b>	
Wire Polarity	White=Positive, Black=Negative
Phase Orientation	H1 points towards source
Frequency Range	50-400Hz
Burden	5-15VA
Withstand Voltage	3,000Vac
Insulation Resistance	500V/100MΩ min
<b>SAFETY/COMPLIANCE</b>	
Rated Voltage	600VAC, Rated CAT III
Certifications	cURus, CE, RoHS, UL Listed UL 2808, CSA 22.2

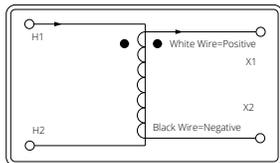
## Dimensions



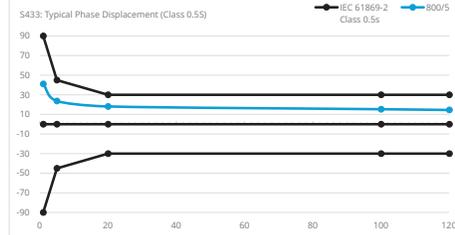
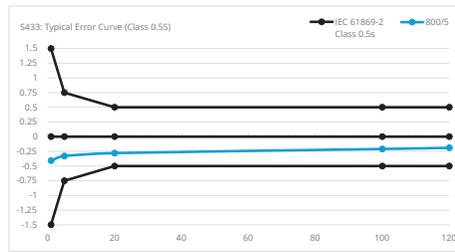
## Mounting Dimension



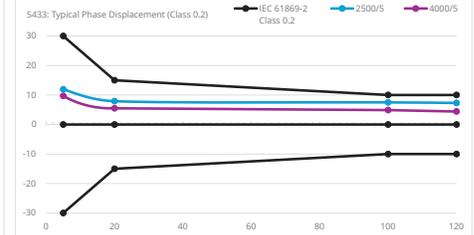
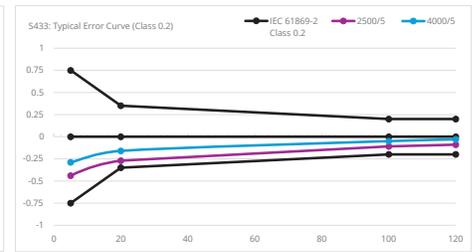
## Installation Instructions



## Accuracy Class 0.5s



## Accuracy Class 0.2



## Typical Parameter

MODEL	CURRENT RATIO	ACCURACY	BURDEN / RESISTANCE	LEAD LENGTH
AcuCT-S433-800:5A	800/5A	0.2	5VA	2.5M
AcuCT-S433-1000:5A	1000/5A	0.2	5VA	2.5M
AcuCT-S433-1500:5A	1500/5A	0.2	10VA	2.5M
AcuCT-S433-2000:5A	2000/5A	0.2	10VA	2.5M
AcuCT-S433-2500:5A	2500/5A	0.2	10VA	2.5M
AcuCT-S433-3000:5A	3000/5A	0.2	15VA	2.5M
AcuCT-S433-3500:5A	3500/5A	0.2	15VA	2.5M
AcuCT-S433-4000:5A	4000/5A	0.2	15VA	2.5M
AcuCT-S433-800:1A	800/1A	0.2	5VA	2.5M
AcuCT-S433-1000:1A	1000/1A	0.2	5VA	2.5M
AcuCT-S433-1500:1A	1500/1A	0.2	10VA	2.5M
AcuCT-S433-2000:1A	2000/1A	0.2	10VA	2.5M
AcuCT-S433-2500:1A	2500/1A	0.2	10VA	2.5M
AcuCT-S433-3000:1A	3000/1A	0.2	15VA	2.5M
AcuCT-S433-3500:1A	3500/1A	0.2	15VA	2.5M
AcuCT-S433-4000:1A	4000/1A	0.2	15VA	2.5M
AcuCT-S433-800:100mA	800/100mA	0.2	10Ω	2.5M
AcuCT-S433-1000:100mA	1000/100mA	0.2	10Ω	2.5M
AcuCT-S433-1500:100mA	1500/100mA	0.2	10Ω	2.5M
AcuCT-S433-2000:100mA	2000/100mA	0.2	10Ω	2.5M
AcuCT-S433-2500:100mA	2500/100mA	0.2	10Ω	2.5M
AcuCT-S433-3000:100mA	3000/100mA	0.2	10Ω	2.5M
AcuCT-S433-3500:100mA	3500/100mA	0.2	10Ω	2.5M
AcuCT-S433-4000:100mA	4000/100mA	0.2	10Ω	2.5M
AcuCT-S433-800:80mA	800/80mA	0.2	10Ω	2.5M
AcuCT-S433-1000:80mA	1000/80mA	0.2	10Ω	2.5M
AcuCT-S433-1500:80mA	1500/80mA	0.2	10Ω	2.5M
AcuCT-S433-2000:80mA	2000/80mA	0.2	10Ω	2.5M
AcuCT-S433-2500:80mA	2500/80mA	0.2	10Ω	2.5M

AcuCT-S433-3000:80mA	3000/80mA	0.2	10Ω	2.5M
AcuCT-S433-3500:80mA	3500/80mA	0.2	10Ω	2.5M
AcuCT-S433-4000:80mA	4000/80mA	0.2	10Ω	2.5M
AcuCT-S433-800:333mV	800/333mV	0.2	1.3Ω	2.5M
AcuCT-S433-1000:333mV	1000/333mV	0.2	1.2Ω	2.5M
AcuCT-S433-1500:333mV	1500/333mV	0.2	0.8Ω	2.5M
AcuCT-S433-2000:333mV	2000/333mV	0.2	0.6Ω	2.5M
AcuCT-S433-2500:333mV	2500/333mV	0.2	0.5Ω	2.5M
AcuCT-S433-3000:333mV	3000/333mV	0.2	0.4Ω	2.5M
AcuCT-S433-3500:333mV	3500/333mV	0.2	0.4Ω	2.5M
AcuCT-S433-4000:333mV	4000/333mV	0.2	0.4Ω	2.5M

The values in the table are the additional burden values containing 2.5 meters leads.

## Ordering Information

	Model	Rated Input	Rated Output
<b>Ordering Number</b>	-	:	
<b>Ordering Example</b>	AcuCT-S433	- 3000	: 333mV
		800: 800A	5A
		1000: 1000A	1A
		1500: 1500A	100mA
		2000: 2000A	80mA
		2500: 2500A	333mV
		3000: 3000A	
		3500: 3500A	
		4000: 4000A	



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Specs Subject To Change Without Notice.