

AcuCT S125 Series

Solid-Core Current Transformer Datasheet



Built with epoxy encapsulated housing for superior integrity and protection, the AcuCT S125 solid-core current transformer delivers 0.2% measurement accuracy, ideal for revenue-grade billing applications when paired with high precision energy meters. Available in a wide range of rated current options from 50A to 400A, it is suitable for a wide range of applications across commercial and industrial sectors.

Features

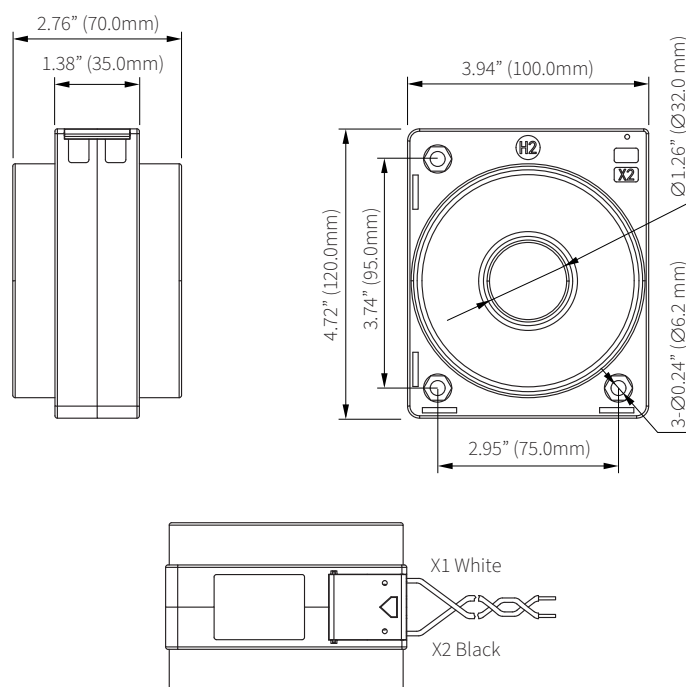
- Accuracy class: 0.2
- Current Inputs: 50A, 100A, 200A, 300A, 400A
- Output Options: 5A, 1A, 80mA, 100mA, 333mV



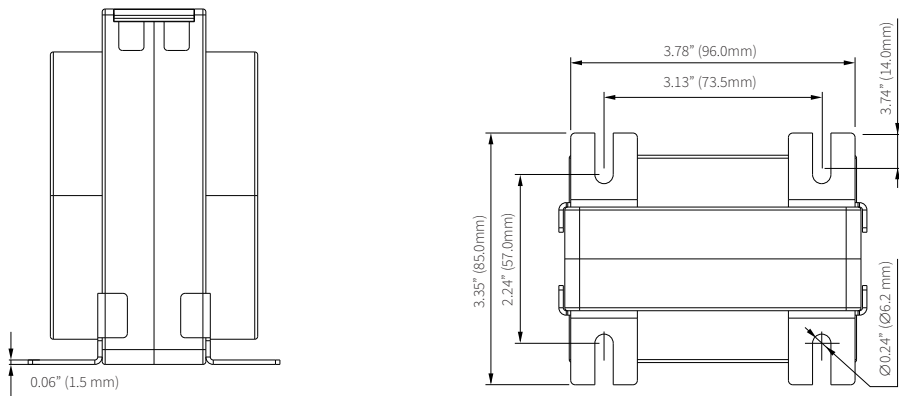
Specifications

RATED CURRENT	
Current Range	50A, 100A, 200A, 300A, 400A
Output	5%, 120% of Rated Current
Accuracy	5A, 1A, 80mA, 100mA, 333mV
Accuracy	IEC 61869 0.2
MECHANICAL/ENVIRONMENTAL	
Exterior Dimensions	120mm x 100mm x 70mm 4.72" x 3.94" x 2.76"
Window Size	Ø 32.0mm (1.26")
Case Material	Epoxy Encapsulated Housing
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
Lead Wires	2.5m (8ft) Twisted Pair, 18AWG
Installation Conditions	Indoor Use
ELECTRICAL	
Wire Polarity	White=Positive, Black=Negative
Phase Orientation	H1 Points Towards Source
Frequency Range	50/60Hz
Burden	80,100mA: 10Ω / 1A: 1.5VA / 5A: 2.5VA / 333mV: 2.5-20Ω
Insulation Resistance	500V/100MΩ min
SAFETY/COMPLIANCE	
Rated Voltage	600VAC, Rated CAT IV
Certifications	CE, RoHS, UL Listed UL2808

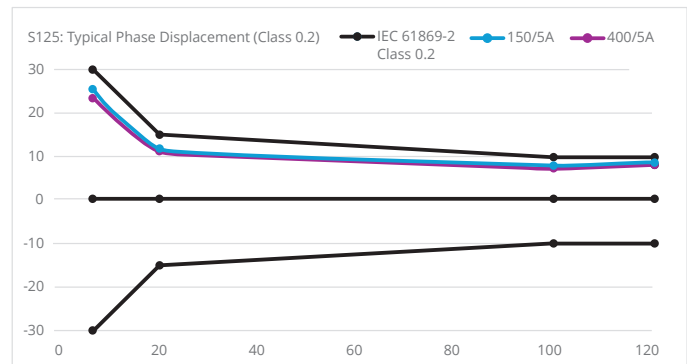
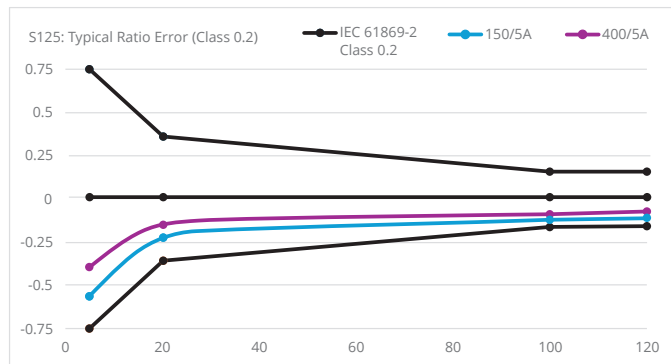
Dimensions



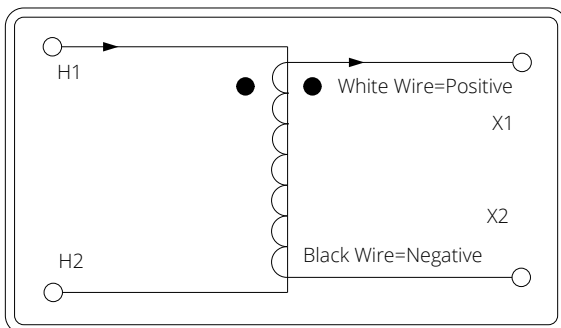
Mounting Dimension



Accuracy Class 0.2



Installation Instructions



Typical Parameter

MODEL	CURRENT RATIO	ACCURACY CLASS	BURDEN/RESISTANCE	LEAD LENGTH
AcuCT-S125-50:5A	50/5A	0.2	2.5VA	2.5M
AcuCT-S125-100:5A	100/5A	0.2	2.5VA	2.5M
AcuCT-S125-200:5A	200/5A	0.2	2.5VA	2.5M
AcuCT-S125-300:5A	300/5A	0.2	2.5VA	2.5M
AcuCT-S125-400:5A	400/5A	0.2	2.5VA	2.5M
AcuCT-S125-50:1A	50/1A	0.2	1.5VA	2.5M
AcuCT-S125-100:1A	100/1A	0.2	1.5VA	2.5M
AcuCT-S125-200:1A	200/1A	0.2	1.5VA	2.5M
AcuCT-S125-300:1A	300/1A	0.2	1.5VA	2.5M
AcuCT-S125-400:1A	400/1A	0.2	1.5VA	2.5M
AcuCT-S125-50:333mV	50/333mV	0.2	20Ω	2.5M
AcuCT-S125-100:333mV	100/333mV	0.2	10Ω	2.5M
AcuCT-S125-200:333mV	200/333mV	0.2	5Ω	2.5M
AcuCT-S125-300:333mV	300/333mV	0.2	3.33Ω	2.5M
AcuCT-S125-400:333mV	400/333mV	0.2	2.5Ω	2.5M
AcuCT-S125-50:100mA	50/100mA	0.2	10Ω	2.5M
AcuCT-S125-100:100mA	100/100mA	0.2	10Ω	2.5M
AcuCT-S125-200:100mA	200/100mA	0.2	10Ω	2.5M
AcuCT-S125-300:100mA	300/100mA	0.2	10Ω	2.5M
AcuCT-S125-400:100mA	400/100mA	0.2	10Ω	2.5M
AcuCT-S125-50:80mA	50/80mA	0.2	10Ω	2.5M
AcuCT-S125-100:80mA	100/80mA	0.2	10Ω	2.5M
AcuCT-S125-200:80mA	200/80mA	0.2	10Ω	2.5M
AcuCT-S125-300:80mA	300/80mA	0.2	10Ω	2.5M
AcuCT-S125-400:80mA	400/80mA	0.2	10Ω	2.5M

Note: In addition to the recommended accuracy classes listed above, custom accuracy class configurations are also available (e.g., 0.5, 0.5S, 0.2S).

Ordering Information

	Model	Rated Input	Rated Output
Ordering Example	AcuCT-S125	- 400	: 5A
		50: 50A	5A
		100: 100A	1A
		200: 200A	333mV
		300: 300A	100mA
		400: 400A	80mA



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Specs Subject To Change Without Notice.