

ACCUEENERGY

AcuCT G Series

Ground Fault Solid-Core Current Transformer

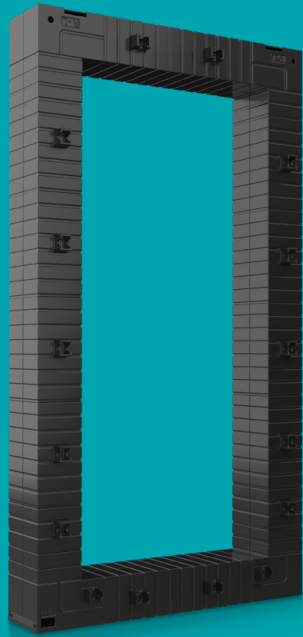


D A T A S H E E T

AcuCT G Series

AcuCT-5913G-SC

Ground Fault Solid-Core Current Transformer
Datasheet



RoHS
COMPLIANT

The AcuCT G Series solid-core sensors detect very small ground faults and deliver clean signals to monitoring devices. It is built to protect connected equipment and keep working under tough conditions while installing easily with clear markings. Safe materials and enclosure-friendly design suit indoor or protected outdoor use across wide temperature and humidity ranges.

Features

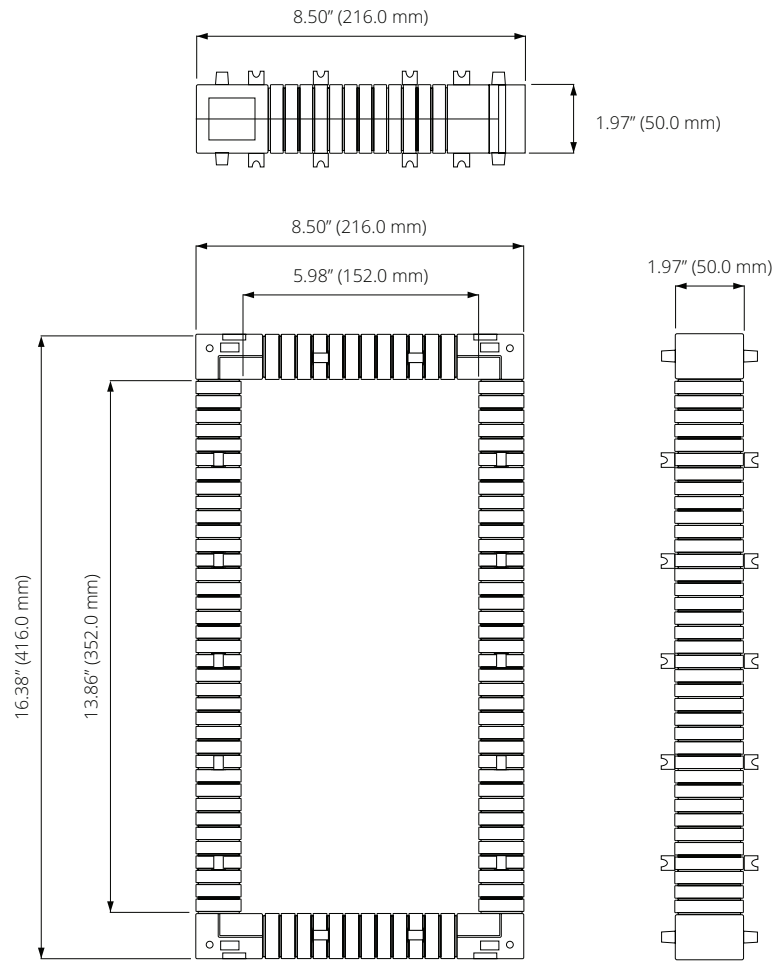
- Accuracy of 5% between 1 – 120% rated current for ground fault detection
- Short-Time Thermal Current (STTC) rated at 15 kA for 1 second
- Surge rated current can withstand 50 kA/50ms
- Built-in protection & durability: secondary overvoltage suppression
- Installation-ready design: solid-core form factor, twisted-pair leads

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Specifications

RATED PRIMARY CURRENT	≥ 10 mA ≤ 10 A (100 A)
Rated Continuous Thermal Current	100A
Current Range	1% - 120% of Rated Current
Rated Transformation Ratio	600: 1
Output	mA Proportional to Rated Current
Accuracy	5%
MECHANICAL/ENVIRONMENTAL	
Form Factor	Solid-Core CT
Window Size	352.0 mm x 152.0 mm (13.86" x 5.98")
Exterior Dimensions	416.0 mm x 216.0 mm x 50.0 mm (16.38" x 8.50" x 1.97")
Case Material	Polycarbonate (PC); Epoxy Resin
Flammability Class	UL94 V-0
Lead Wires	Twisted Pair
Degree of Protection	IP40 (Internal Components) IP20 (Terminals)
Operating Temperature	-15 °C to 50 °C / 5 °F to 122 °F
Storage Temperature	-40 °C to 70 °C / -40 °F to 158 °F
Operating Humidity	Non-Condensing, 0 to 95% RH
Installation Conditions	Indoor Use or Install in an Outdoor Enclosure (Not for Direct Outdoor Exposure)
CONNECTION	
Connection Method	Terminal (With Shielded Twisted Pair or Shielded 2.5 m Cable)
Terminal and Mounting	Screw-Type Terminals, Screw Mounting (M5)
Screw Tightening Torque	0.45 – 0.6 N·m
Conductor Size	24 - 12 AWG
ELECTRICAL	
Wire Polarity	S1=Positive, S2=Negative
Phase Orientation	P1 Points Towards Source
Frequency Range	50 – 400 Hz
Internal Resistance	15 – 18 Ω
Secondary Overvoltage Protection	Yes (Suppressor diode P6KE15CA)
Shielded Coil	Yes
Burden	180 Ω
Power	55 mVA
SAFETY/COMPLIANCE	
Short-Time Thermal Current	15 kA / 1s
Rated Surge Current	50 kA / 50ms
Withstand Voltage	3.0 kV / 1mA / 1min @ 0.72 kV
Rated Voltage	AC 0.72 kV
Certifications & Compliance	UL 508, UL61010-1, and RoHS Compliant

Dimensions



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Revision Date: April 2026 Version: 1.0.0
 Specs Subject To Change Without Notice.

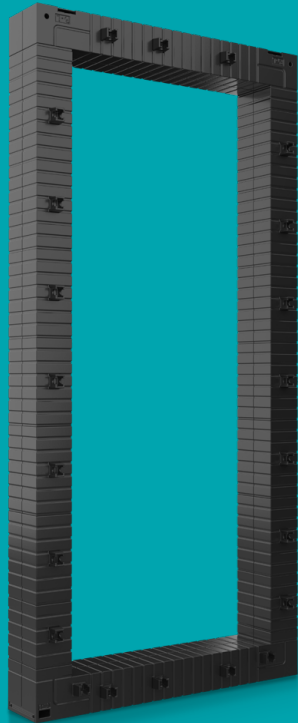
Ordering Information

	Model	-	Solid-Core
	AcuCt-5913G		SC
Ordering Example	AcuCt-5913G	-	SC

AcuCT G Series

AcuCT-7919G-SC

Ground Fault Solid-Core Current Transformer
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RoHS
COMPLIANT

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Features

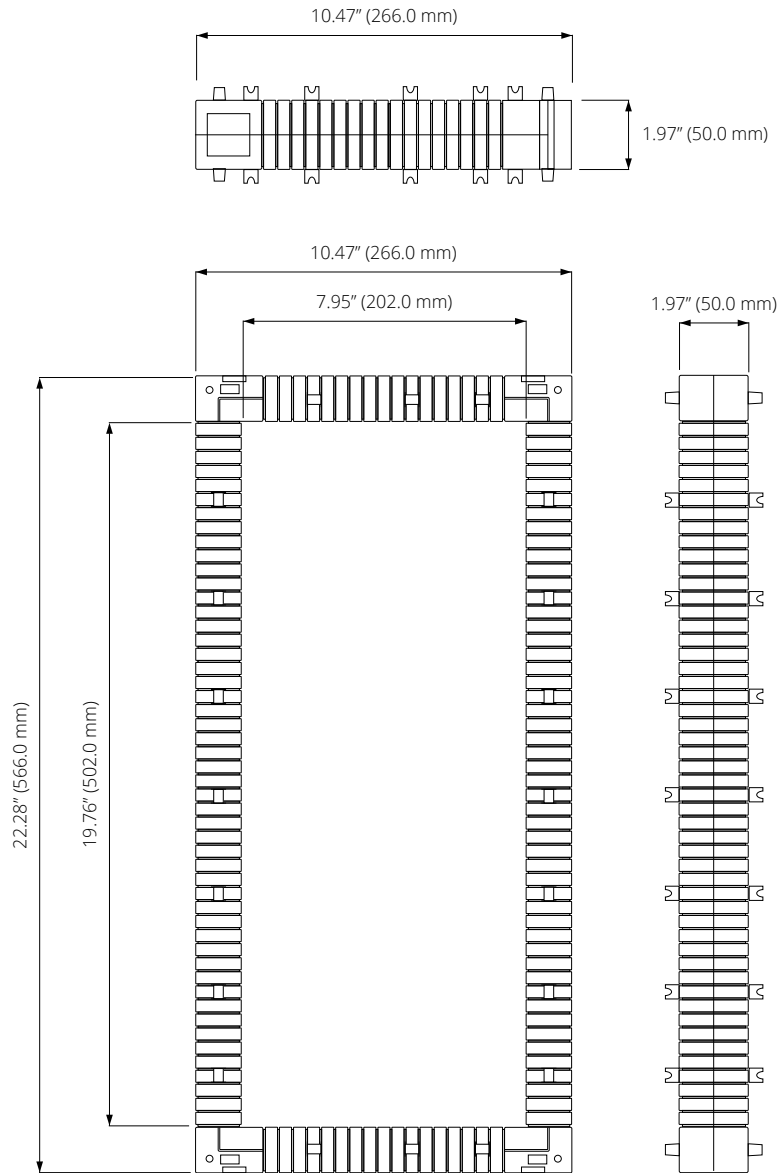
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- Installation-ready design: solid-core form factor, twisted-pair leads

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Rated Transformation Ratio	600: 1
Output	mA Proportional to Rated Current
Accuracy	5%
MECHANICAL/ENVIRONMENTAL	
Form Factor	Solid-Core CT
Window Size	202.0 mm x 502.0 mm (7.953" x 19.764")
Exterior Dimensions	266.0 mm x 566.0 mm x 50.0 mm (10.472" x 22.283" x 1.969")
Case Material	Polycarbonate (PC); Epoxy Resin
Flammability Class	UL94 V-0
Lead Wires	Twisted Pair
Degree of Protection	IP40 (Internal Components) IP20 (Terminals)
Operating Temperature	-15 °C to 50 °C / 5 °F to 122 °F
Storage Temperature	-40 °C to 70 °C / -40 °F to 158 °F
Operating Humidity	Non-Condensing, 0 to 95% RH
Installation Conditions	Indoor Use or Install in an Outdoor Enclosure, (Not for Direct Outdoor Exposure)
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Connection Method	Terminal (With Shielded Twisted Pair or Shielded 2.5 m Cable)
Terminal and Mounting	Screw-Type Terminals, Screw Mounting (M5)
Screw Tightening Torque	0.45 – 0.6 N·m
Conductor Size	24 - 12 AWG
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Wire Polarity	S1=Positive, S2=Negative
Phase Orientation	P1 Points Towards Source
Frequency Range	50 – 400 Hz
Internal Resistance	15 – 18 Ω
Secondary Overvoltage Protection	Yes (Suppressor diode P6KE15CA)
Shielded Coil	Yes
Burden	180 Ω
Power	55 mVA
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Short-Time Thermal Current	15 kA / 1s
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