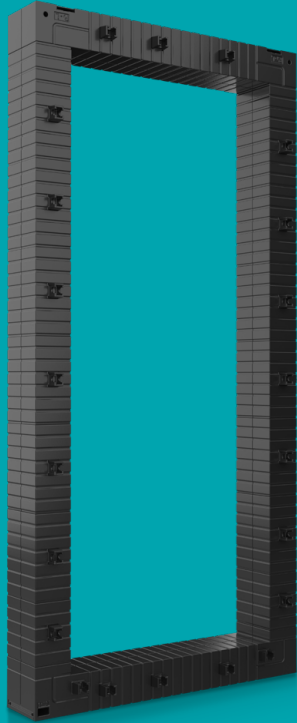


AcuCT G Series

AcuCT-7919G-SC

Ground Fault Solid-Core Current Transformer
Datasheet



ROHS
COMPLIANT

UL
PENDING

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



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 | 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) |

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 |

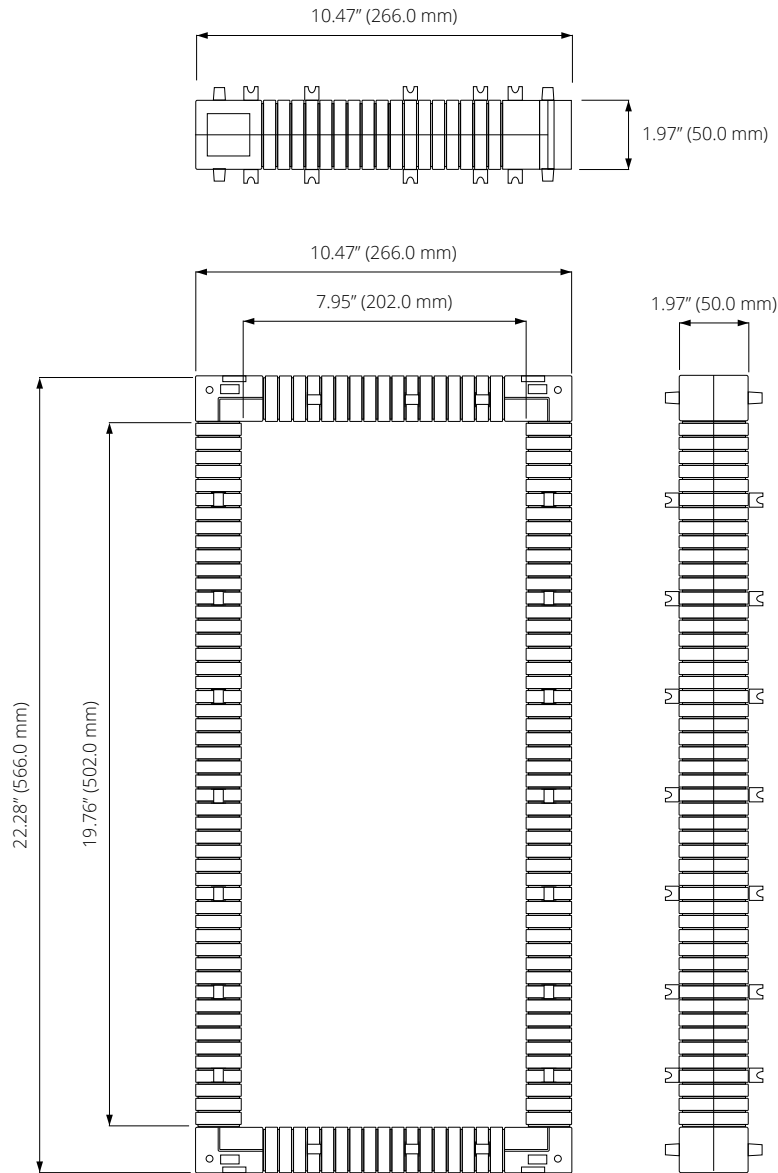
ELECTRICAL

| | |
|----------------------------------|---------------------------------|
| 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: 1.0.1

Specs Subject To Change Without Notice.

Ordering Information

| | Model | - | Solid-Core |
|-------------------------|--------------------|----------|------------|
| | AcuCT-7919G | | SC |
| Ordering Example | AcuCT-7919G | - | SC |