

# AcuCT Hinged EF Series

## AcuCT-H100

Extended Frequency Hinged Split-Core  
Current Transformer Datasheet



Ultra-compact design with a hinged opening, the AcuCT Hinged extended frequency split-core current transformers are high-accuracy sensors for electrical current signature analysis up to 2kHz. With an optimized frequency response, the AcuCT-H100 is ideally suited for motor current signature analysis and harmonic current analysis. It can be used for branch circuit monitoring in crowded electrical panels. The installer-friendly, hinged design facilitates fast installation without cable or wire disconnection.

### Features

- High accuracy with 0.5% ratio error
- Inherently safe 333mV output
- Hinged split-core design for quick installation
- Compact design for electrical panels with limited space
- UL Recognized



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Specs Subject To Change Without Notice.

### Specifications



|                      |                            |
|----------------------|----------------------------|
| <b>RATED CURRENT</b> | 25A, 50A                   |
| Current Range        | 5% - 120% of Rated Current |
| Output               | 333mV                      |
| Ratio Error          | 0.5%                       |

#### MECHANICAL/ENVIRONMENTAL

|                         |                                                   |
|-------------------------|---------------------------------------------------|
| Form Factor             | Hinged Split-Core CT                              |
| Window Size             | 25.4mm (1.00")                                    |
| Exterior Dimensions     | 50.8mm x 38.6mm x 70.1mm<br>2.00" x 1.52" x 2.76" |
| Case Material           | Black Nylon, UL 94V-0                             |
| Lead Wires              | 2.5m (8ft) Twisted Pair, 22AWG                    |
| Operating Temperature   | -25°C to 70°C / -13°F to 158°F                    |
| Operating Humidity      | Non-Condensing, 0 to 95% RH                       |
| Installation Conditions | Indoor Use                                        |

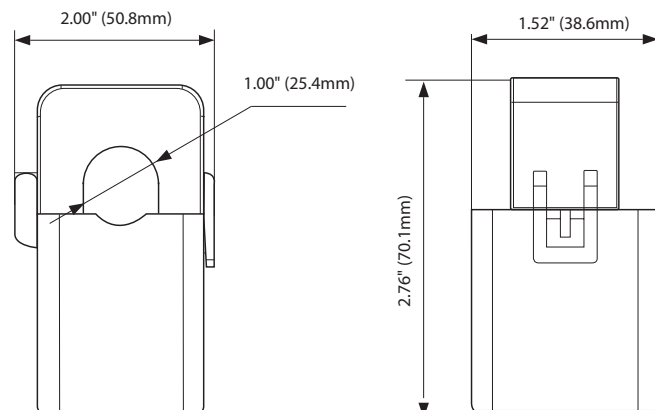
#### ELECTRICAL

|                                  |                                                                                                           |
|----------------------------------|-----------------------------------------------------------------------------------------------------------|
| Wire Polarity                    | White=Positive, Black=Negative                                                                            |
| Phase Orientation                | Arrow Points Towards Load                                                                                 |
| Overload Factor                  | ≤ ±3% up to 10x Overload                                                                                  |
| Phase Displacement               | ≤ ±60' @100%-120%of Rated Current<br>≤ ±100' @20%-100%of Rated Current<br>≤ ±120' @5%-20%of Rated Current |
| Frequency Range                  | 50/60 Hz                                                                                                  |
| Frequency Response               | 50Hz – 2kHz                                                                                               |
| Turns @ Internal Resistance      | 25A: 3000:1@40Ω<br>50A: 3000:1@20Ω                                                                        |
| Rated Continuous Thermal Current | 120% of Rated Current                                                                                     |

#### SAFETY/COMPLIANCE

|                             |                           |
|-----------------------------|---------------------------|
| Withstand Voltage           | 3.0kV / 1mA / 1min        |
| Rated Voltage               | 600VAC                    |
| Certifications & Compliance | CE, RoHS, cURus (E359521) |

### Dimensions



### Ordering Information

| Model                   | -                 | Rated Input | :         | Rated Output | -            | Frequency Bandwidth |
|-------------------------|-------------------|-------------|-----------|--------------|--------------|---------------------|
| AcuCT-H100              |                   | 25: 25A     |           | 333mV        |              | 2K: 2kHz            |
|                         |                   | 50: 50A     |           |              |              |                     |
| <b>Ordering Example</b> | <b>AcuCT-H100</b> | <b>-</b>    | <b>25</b> | <b>:</b>     | <b>333mV</b> | <b>- 2K</b>         |