AcuCT R Series
Revenue Grade Split-Core Current Transformer

DATASHEET
AcuCT R Series
AcuCT-075R
Revenue Grade Split-Core Current Transformer Datasheet

The AcuCT R Series CTs are premium, revenue grade split-core current transformers with a selection output options and class-leading accuracy. UL2808 Listed for guaranteed safety and quality, the AcuCT R Series combines a compact, durable form factor with a sturdy latch for added assurance in challenging applications. Installation is straightforward thanks to the user-friendly, press-open design.

Features
- Revenue grade accuracy: IEC 61869-2 Class 0.5s (from 5% - 120% of rated current)
- Choose from multiple secondary output options including 80mA and 333mV
- The press-open design helps to speed and simplify installation
- Includes accessories for several mounting options
- UL Listed for XOBA UL2808 standard, CSA C22.2 No. 61010-1

Specifications

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<th>Details</th>
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<td>Current Range</td>
<td>5% - 120% of rated current</td>
</tr>
<tr>
<td>Output</td>
<td>80mA, 100mA, 200mA, 333mV</td>
</tr>
<tr>
<td>Accuracy</td>
<td>IEC 61869-2 Class 0.5s</td>
</tr>
<tr>
<td>MECHANICAL/ENVIRONMENTAL</td>
<td></td>
</tr>
<tr>
<td>Form Factor</td>
<td>Press Open Split-Core CT</td>
</tr>
<tr>
<td>Window Size</td>
<td>19.0mm x 19.0mm (0.75&quot; x 0.75&quot;)</td>
</tr>
<tr>
<td>Exterior Dimensions</td>
<td>58.0mm x 58.0mm x 22.0mm 2.30&quot; x 2.30&quot; x 0.90&quot;</td>
</tr>
<tr>
<td>Case Material</td>
<td>UL enclosure rated to 135°C (275°F)</td>
</tr>
<tr>
<td>Lead Wires</td>
<td>2.5m (8ft) UL 1015 18AWG</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-25°C to 70°C / -13°F to 158°F</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>Non-condensing, 0 to 95% RH</td>
</tr>
<tr>
<td>Installation Conditions</td>
<td>Indoor Use</td>
</tr>
<tr>
<td>ELECTRICAL</td>
<td></td>
</tr>
<tr>
<td>Wire Polarity</td>
<td>White=Positive, Black=Negative</td>
</tr>
<tr>
<td>Phase Orientation</td>
<td>Arrow Points Towards Load</td>
</tr>
<tr>
<td>Frequency Range</td>
<td>50/60Hz</td>
</tr>
<tr>
<td>Output Resistance</td>
<td>100A/333mV : 25Ω</td>
</tr>
<tr>
<td></td>
<td>80mA, 100mA, 200mA : 10Ω</td>
</tr>
<tr>
<td>SAFETY/COMPLIANCE</td>
<td>Withstand Voltage 5.0KV/1mA/1min</td>
</tr>
<tr>
<td></td>
<td>Rated Voltage 600VAC, Rated CAT III</td>
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Dimensions

Ordering Information

<table>
<thead>
<tr>
<th>Ordering Number</th>
<th>AcuCT-075R</th>
<th>-</th>
<th>50</th>
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<tbody>
<tr>
<td>Ordering Example</td>
<td>AcuCT-075R</td>
<td>-</td>
<td>50</td>
<td>333mV</td>
</tr>
<tr>
<td></td>
<td>50: 50A</td>
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<td>333mV</td>
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<tr>
<td></td>
<td>100: 100A</td>
<td></td>
<td>80mA</td>
<td></td>
</tr>
<tr>
<td></td>
<td>150: 150A</td>
<td></td>
<td>100mA</td>
<td></td>
</tr>
<tr>
<td></td>
<td>200: 200mA</td>
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<td>200mA</td>
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Revision Date: August 2023
Specs Subject To Change Without Notice
**Specifications**

<table>
<thead>
<tr>
<th>RATED CURRENT</th>
<th>100A, 200A, 250A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Range</td>
<td>5% - 120% of rated current</td>
</tr>
<tr>
<td>Output</td>
<td>1A, 80mA, 100mA, 200mA, 333mV</td>
</tr>
<tr>
<td>Accuracy</td>
<td>IEC 61869-2 Class 0.5s</td>
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**MECHANICAL/ENVIRONMENTAL**

<table>
<thead>
<tr>
<th>Form Factor</th>
<th>Press Open Split-Core CT</th>
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</thead>
<tbody>
<tr>
<td>Window Size</td>
<td>25.0mm x 25.0mm (1.00&quot; x 1.00&quot;)</td>
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<tr>
<td>Exterior Dimensions</td>
<td>65.0mm x 65.0mm x 22.0mm</td>
</tr>
<tr>
<td></td>
<td>2.60&quot; x 2.60&quot; x 0.90&quot;</td>
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<tr>
<td>Case Material</td>
<td>UL enclosure rated to 135°C (275°F)</td>
</tr>
<tr>
<td>Lead Wires</td>
<td>2.5m (8ft) UL 1015 18AWG</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-25°C to 70°C / -13°F to 158°F</td>
</tr>
<tr>
<td>Operating Humidity</td>
<td>Non-condensing, 0 to 95% RH</td>
</tr>
<tr>
<td>Installation Conditions</td>
<td>Indoor Use</td>
</tr>
</tbody>
</table>

**ELECTRICAL**

<table>
<thead>
<tr>
<th>Wire Polarity</th>
<th>White=Positive, Black=Negative</th>
</tr>
</thead>
<tbody>
<tr>
<td>Phase Orientation</td>
<td>Arrow Points Towards Load</td>
</tr>
<tr>
<td>Frequency Range</td>
<td>50/60Hz</td>
</tr>
<tr>
<td>Output Resistance (Voltage Output)@333mV; burden@80mA, 100mA, 200mA, 5A, 1A</td>
<td>100A/333mV: 25Ω / 200A/333mV: 12.5Ω / 250A/333mV: 10Ω / 80mA, 100mA, 200mA: 10Ω / 1A: 1VA</td>
</tr>
</tbody>
</table>

**SAFETY/COMPLIANCE**

| Withstand Voltage | 5.0KV/1mA/1min |
| Rated Voltage     | 600VAC, Rated CAT III |
| Certifications    | CE, RoHS, UL Listed UL2808 (E469633) |
|                   | 61010-1 and CSA 22.2 IEEE 61869-2 |

**Dimensions**

<table>
<thead>
<tr>
<th>Dimensions</th>
<th>1.00&quot; (25.0mm)</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>1.00&quot; (25.0mm)</td>
</tr>
<tr>
<td></td>
<td>2.60&quot; (65.0mm)</td>
</tr>
<tr>
<td></td>
<td>0.90&quot; (22.0mm)</td>
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**Ordering Information**

<table>
<thead>
<tr>
<th>Ordering Number</th>
<th>AcuCT-100R</th>
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</thead>
<tbody>
<tr>
<td>Rated Input</td>
<td>100A, 200A, 250A</td>
</tr>
<tr>
<td>Rated Output</td>
<td>333mV</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Ordering Example</th>
<th>AcuCT-100R</th>
<th>100A</th>
<th>200A</th>
<th>250A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rated Input</td>
<td>1A</td>
<td>333mV</td>
<td>80mA</td>
<td>100mA</td>
</tr>
</tbody>
</table>

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Features

- Revenue grade accuracy: IEC 61869-2 Class 0.5s (from 5% - 120% of rated current)
- Choose from multiple voltage or current secondary output options including 1A and 333mV
- The press-open design helps to speed and simplify installation
- Includes accessories for several mounting options
- UL Listed for XOBA UL2808 standard, CSA C22.2 No. 61010-1

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**Revision Date:** August 2023 Version: 1.0.2
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Specifications

<table>
<thead>
<tr>
<th>Specifications</th>
<th>Values</th>
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</thead>
<tbody>
<tr>
<td><strong>RATED CURRENT</strong></td>
<td>100A, 200A, 300A, 400A</td>
</tr>
<tr>
<td>Current Range</td>
<td>5% - 120% of rated current</td>
</tr>
<tr>
<td>Output</td>
<td>1A, 80mA, 100mA, 200mA, 333mV</td>
</tr>
<tr>
<td>Accuracy</td>
<td>IEC 61869-2 Class 0.5s</td>
</tr>
<tr>
<td><strong>MECHANICAL/ENVIRONMENTAL</strong></td>
<td></td>
</tr>
<tr>
<td>Form Factor</td>
<td>Press Open Split-Core CT</td>
</tr>
<tr>
<td>Window Size</td>
<td>32.0mm x 32.0mm (1.25&quot; x 1.25&quot;)</td>
</tr>
<tr>
<td>Exterior Dimensions</td>
<td>82.0mm x 82.0mm x 22.0mm 3.20&quot; x 3.20&quot; x 0.90&quot;</td>
</tr>
<tr>
<td>Case Material</td>
<td>UL enclosure rated to 135°C (275°F)</td>
</tr>
<tr>
<td>Lead Wires</td>
<td>2.5m (8ft) UL 1015 18AWG</td>
</tr>
<tr>
<td>Operating Temperature</td>
<td>-25°C to 70°C / -13°F to 158°F</td>
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<tr>
<td>Operating Humidity</td>
<td>Non-condensing, 0 to 95% RH</td>
</tr>
<tr>
<td>Installation Conditions</td>
<td>Indoor Use</td>
</tr>
<tr>
<td><strong>ELECTRICAL</strong></td>
<td></td>
</tr>
<tr>
<td>Wire Polarity</td>
<td>White=Positive, Black=Negative</td>
</tr>
<tr>
<td>Phase Orientation</td>
<td>Arrow Points Towards Load</td>
</tr>
<tr>
<td>Frequency Range</td>
<td>50/60Hz</td>
</tr>
<tr>
<td>Output Resistance (Voltage Output)@333mV; burden@80mA, 100mA, 200mA, 5A, 1A</td>
<td>100A/333mV: 25Ω / 200A/333mV: 12.5Ω / 300A/333mV: 8.33Ω / 400A/333mV: 6.25Ω</td>
</tr>
<tr>
<td><strong>SAFETY/COMPLIANCE</strong></td>
<td></td>
</tr>
<tr>
<td>Withstand Voltage</td>
<td>5.0KV/1mA/1min</td>
</tr>
<tr>
<td>Rated Voltage</td>
<td>600VAC, Rated CAT III</td>
</tr>
<tr>
<td>Certifications</td>
<td>CE, RoHS, UL Listed UL2808 (E469633) 61010-1 and CSA 22.2 IEEE 61869-2</td>
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</table>

Dimensions

Ordering Information

<table>
<thead>
<tr>
<th>Ordering Number</th>
<th>Rated Input</th>
<th>Rated Output</th>
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<tbody>
<tr>
<td>AcuCT-125R-200 :</td>
<td>200 : 333mV</td>
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</tr>
<tr>
<td>100 : 100A 1A</td>
<td></td>
<td></td>
</tr>
<tr>
<td>200 : 200A 333mV</td>
<td></td>
<td></td>
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<tr>
<td>300 : 300A 80mA</td>
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<td></td>
</tr>
<tr>
<td>400 : 400A 100mA</td>
<td></td>
<td></td>
</tr>
<tr>
<td>200mA</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
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**Features**

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**Specifications**

<table>
<thead>
<tr>
<th><strong>RATED CURRENT</strong></th>
<th>400A, 600A, 800A, 1000A</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Current Range</strong></td>
<td>5% - 120% of rated current</td>
</tr>
<tr>
<td><strong>Output</strong></td>
<td>1A, 80mA, 100mA, 200mA, 333mV</td>
</tr>
<tr>
<td><strong>Accuracy</strong></td>
<td>IEC 61869-2 Class 0.5s</td>
</tr>
</tbody>
</table>

**MECHANICAL/ENVIRONMENTAL**

<table>
<thead>
<tr>
<th><strong>Form Factor</strong></th>
<th>Press Open Split-Core CT</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Window Size</strong></td>
<td>51.0mm x 51.0mm (2.00” x 2.00”)</td>
</tr>
<tr>
<td><strong>Exterior Dimensions</strong></td>
<td>111.0mm x 111.0mm x 32.0mm 4.40” x 4.40” x 1.25”</td>
</tr>
<tr>
<td><strong>Case Material</strong></td>
<td>UL enclosure rated to 135°C (275°F)</td>
</tr>
<tr>
<td><strong>Lead Wires</strong></td>
<td>2.5m (8ft) UL 1015 18AWG</td>
</tr>
<tr>
<td><strong>Operating Temperature</strong></td>
<td>-25°C to 70°C / -13°F to 158°F</td>
</tr>
<tr>
<td><strong>Operating Humidity</strong></td>
<td>Non-condensing, 0 to 95% RH</td>
</tr>
<tr>
<td><strong>Installation Conditions</strong></td>
<td>Indoor Use</td>
</tr>
</tbody>
</table>

**ELECTRICAL**

| **Wire Polarity** | White=Positive, Black=Negative |
| **Phase Orientation** | Arrow Points Towards Load |
| **Frequency Range** | 50/60Hz |
| **Output Resistance (Voltage Output)@333mV; burden@80mA, 100mA, 200mA, 5A, 1A** | 400A/333mV: 6.25Ω / 600A/333mV: 4.16Ω / 800A/333mV: 3.12Ω / 1000A/333mV:2.5Ω / 80mA,100mA,200mA:10Ω / 1A: 1VA |

**SAFETY/COMPLIANCE**

- Withstand Voltage: 5.0KV/1mA/1min
- Rated Voltage: 600VAC, Rated CAT III
- Certifications: CE, RoHS, UL Listed UL2808 (E469633) 61010-1 and CSA 22.2 IEEE 61869-2

**Dimensions**

![Dimensions Diagram]

**Ordering Information**

<table>
<thead>
<tr>
<th><strong>Ordering Number</strong></th>
<th>AcuCT-200R</th>
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<tbody>
<tr>
<td><strong>Ordering Example</strong></td>
<td>AcuCT-200R</td>
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<tr>
<td><strong>Rated Input</strong></td>
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<tr>
<td><strong>Rated Output</strong></td>
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<th><strong>Ordering Number</strong></th>
<th>AcuCT-200R</th>
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<tbody>
<tr>
<td><strong>Ordering Example</strong></td>
<td>AcuCT-200R</td>
</tr>
<tr>
<td><strong>Rated Input</strong></td>
<td>600A</td>
</tr>
<tr>
<td><strong>Rated Output</strong></td>
<td>333mV</td>
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<tr>
<td><strong>Ordering Example</strong></td>
<td>AcuCT-200R</td>
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<tr>
<td><strong>Rated Input</strong></td>
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<tr>
<td><strong>Rated Output</strong></td>
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<th><strong>Ordering Number</strong></th>
<th>AcuCT-200R</th>
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<tr>
<td><strong>Ordering Example</strong></td>
<td>AcuCT-200R</td>
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<tr>
<td><strong>Rated Input</strong></td>
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<tr>
<td><strong>Rated Output</strong></td>
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<th><strong>Ordering Number</strong></th>
<th>AcuCT-200R</th>
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<tbody>
<tr>
<td><strong>Ordering Example</strong></td>
<td>AcuCT-200R</td>
</tr>
<tr>
<td><strong>Rated Input</strong></td>
<td>200mA</td>
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</table>

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<th></th>
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<tbody>
<tr>
<td>Current Range</td>
<td>5% - 120% of rated current</td>
</tr>
<tr>
<td>Output</td>
<td>5A, 1A, 80mA, 100mA, 200mA, 333mV</td>
</tr>
<tr>
<td>Accuracy</td>
<td>IEC 61869-2 Class 0.5s</td>
</tr>
</tbody>
</table>

**MECHANICAL/ENVIRONMENTAL**
- Form Factor: Press Open Split-Core CT
- Window Size: 105.0mm x 155.0mm (4.10” x 6.10”)
- Exterior Dimensions: 185.0mm x 235.0mm x 45.0mm (7.30” x 9.30” x 1.80”)
- Case Material: UL enclosure rated to 135°C (275°F)
- Lead Wires: 2.5m (8ft) UL 1015 18AWG
- 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
- Frequency Range: 50/60Hz
- Output Resistance (Voltage Output)@333mV; burden@80mA, 100mA, 200mA, 5A, 1A
  - 600A/333mV: 4.16Ω / 1200A/333mV: 2.08Ω
  - 1600A/333mV: 1.56Ω / 2000A/333mV: 1.25Ω
  - 3000A/333mV: 0.83Ω / 4000A/333mV: 0.625Ω
  - 5000A/333mV: 0.5Ω / 80mA, 100mA, 200mA: 10Ω / 1A: 1VA / 5A: 5VA

**SAFETY/COMPLIANCE**
- Withstand Voltage: 5.0KV/1mA/1min
- Rated Voltage: 600VAC, Rated CAT III
- Certifications: CE, RoHS, UL Listed UL2808 (E469633) 61010-1 and CSA 22.2 IEEE 61869-2

**Dimensions**
- A: 7.30” (185.0mm)
- B: 9.30” (235.0mm)
- C: 1.80” (45.0mm)
- D: 4.10” (105.0mm)
- E: 6.10” (155.0mm)

**Ordering Information**

<table>
<thead>
<tr>
<th>Ordering Number</th>
<th>AcuCT-4161R</th>
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<tbody>
<tr>
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<td>Rated Output</td>
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<td>Ordering Example</td>
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<td>1A</td>
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<tr>
<td>800: 800A</td>
<td>5A</td>
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<td>1000: 1000A</td>
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<td>1200: 1200A</td>
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<td>1600: 1600A</td>
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<td>5000: 5000A</td>
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</tbody>
</table>
**AcuCT R Series**

**AcuCT-5170R**

Revenue Grade Split-Core Current Transformer Datasheet

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The AcuCT R Series CTs are premium, revenue grade split-core current transformers with a selection output options and class-leading accuracy. UL2808 Listed for guaranteed safety and quality, the AcuCT R Series combines a compact, durable form factor with a sturdy latch for added assurance in challenging applications. Installation is straightforward thanks to the user-friendly, press-open design.

**Features**

- Revenue grade accuracy: IEC 61869-2 Class 0.5s (from 5% - 120% of rated current)
- Choose from multiple voltage or current secondary output options including 5A and 333mV

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**Specifications**

<table>
<thead>
<tr>
<th>RATED CURRENT</th>
<th>1000A, 1600A, 2000A, 3000A, 4000A, 5000A</th>
</tr>
</thead>
<tbody>
<tr>
<td>Current Range</td>
<td>5% - 120% of rated current</td>
</tr>
<tr>
<td>Output</td>
<td>5A, 1A, 80mA, 100mA, 200mA, 333mV</td>
</tr>
<tr>
<td>Accuracy</td>
<td>IEC 61869-2 Class 0.5s</td>
</tr>
</tbody>
</table>

**MECHANICAL/ENVIRONMENTAL**

- **RATED CURRENT**
- **Current Range**
- **Output**
- **Accuracy**
  - IEC 61869-2 Class 0.5s

**ELECTRICAL**

- **Wire Polarity** White=Positive, Black=Negative
- **Phase Orientation** Arrow Points Towards Load
- **Frequency Range** 50/60Hz
- **Output Resistance (Voltage Output)@333mV; burden@80mA, 100mA, 200mA, 5A, 1A**
  - 1600A/333mV: 1.56Ω / 3000A/333mV: 0.83Ω
  - 4000A/333mV: 0.625 / 5000A/333mV: 0.5Ω / 80mA,100mA,200mA:10Ω / 1A: 1VA / 5A: 10VA

**SAFETY/COMPLIANCE**

- **Withstand Voltage** 5.0KV/1mA/1min
- **Rated Voltage** 600VAC, Rated CAT III
- **Certifications** CE, RoHS, UL Listed UL2808 (E469633) 61010-1 and CSA 22.2 IEEE 61869-2

**Dimensions**

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**Ordering Information**

<table>
<thead>
<tr>
<th>Ordering Number</th>
<th>AcuCT-5170R - :</th>
</tr>
</thead>
<tbody>
<tr>
<td>Rating Input</td>
<td>Rating Output</td>
</tr>
<tr>
<td>Ordering Example</td>
<td>AcuCT-5170R - 2000 : 333mV</td>
</tr>
<tr>
<td>1000: 1000A</td>
<td>1A</td>
</tr>
<tr>
<td>1600: 1600A</td>
<td>5A</td>
</tr>
<tr>
<td>2000: 2000A</td>
<td>333mV</td>
</tr>
<tr>
<td>3000: 3000A</td>
<td>80mA</td>
</tr>
<tr>
<td>4000: 4000A</td>
<td>100mA</td>
</tr>
<tr>
<td>5000: 5000A</td>
<td>200mA</td>
</tr>
</tbody>
</table>