

# 100A/200A/400A REVENUE GRADE SPLIT CORE CURRENT TRANSFORMERS



DENT's SRL Series hinged split-core current transformers are designed for Revenue Grade applications that require maximum accuracy and precision. The superior performance, robust design, and unique shrouded snap, lock & tilt top of the SRS Series CTs make them ideal for field installation in high accuracy current measurement applications such as energy and demand metering, tenant submetering and load surveys. Revenue Grade performance of these CTs meets or exceeds the accuracy specifications of IEC 61869-2 Class 0.2; IEC 60044-1 Class 0.3; and IEEE C57.13 Class 0.3.

The SRL Series CTs are UL2808 and CSA C22.2 No. 61010-1 listed as stand-alone products, CE marked, RoHS compliant, and are 600V CAT III rated devices. They are available for current inputs up to 400 Amps with 8 foot long, 18 AWG MTW UL1015 twisted pair leads.



| KEY SPECIFICATIONS                               |   |
|--|---|
| Window Size                                      | 1.25" (31.75mm)   |
| Current Range                                    | 100A Model: 1.0—200A AC<br>200A Model: 2.0—400A AC<br>400A Model: 4.0—500A AC |
| Output   | 333.3mV at rated current  |
| Ratio Error                                      | +/-0.2% at rated current (typical)  |
| Phase Error                                      | < 0.2°  |
| Meets the Accuracy Requirements for <sup>1</sup> | IEC 61869-2 Class 0.2<br>IEC 60044-1 Class 0.2<br>IEEE C57.13 Class 0.3       |

| ELECTRICAL      |   |
|-----------------|---|
| Output          | 333.3mV at rated current                              |
| Wire Polarity   | White = Hi, positive (+)<br>Black = Low, negative (-) |
| Frequency Range | 40 to 400 Hz  |

| MECHANICAL            |   |
|-----------------------|---|
| Case Material         | 120°C UL Recognized Plastic   |
| Leads                 | 8ft (2.4M) black and white twisted pair 18 AWG MTW UL1015, 600V, 105°C double insulated |
| Operating Temperature | -40°C to 70°C (-40°F to 158°F)  |

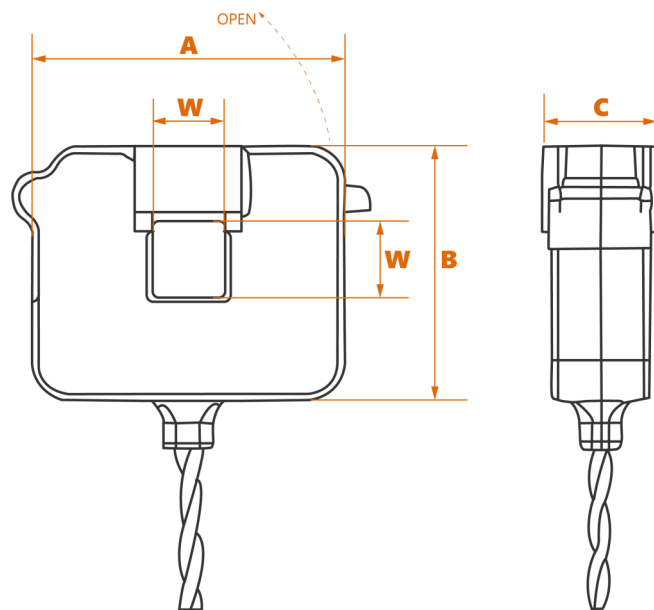
| SAFETY              |                       |
|---------------------|-----------------------|
| Working Voltage     | 600 VAC, Category III |
| Dielectric Strength | 7400 VAC              |

|               |  |
|---------------|--|
| Certification |  Conforms to:<br>UL Listed to UL 2808<br>Certified to:<br>CSA STD C22.2 No. 61010-1 |
|---------------|--|

## CONTACT US

DENT Instruments, Inc.  
Energy & Power Measurement Solutions  
An ISO 9001:2008 Certified Company

925 SW EMKAY DRIVE  
BEND, OREGON 97702 USA  
541.388.4774 | 800.388.0770  
WWW.DENTINSTRUMENTS.COM



## DIMENSIONS

| WINDOW           | A               | B               | C               |
|------------------|-----------------|-----------------|-----------------|
| 1.25"<br>31.75mm | 3.3"<br>83.81mm | 3.1"<br>78.74mm | 1.3"<br>33.04mm |

## PART NUMBERS

|                |                               |
|----------------|-------------------------------|
| CT-SRL-100-U/B | 100A Revenue Grade Split Core |
| CT-SRL-200-U/B | 200A Revenue Grade Split Core |
| CT-SRL-400-U/B | 400A Revenue Grade Split Core |

<sup>1</sup> When CT phase shift is set as follows: 100A = 0.06°, 200A = 0.06°, 400A = -0.06°