



Split-Core Current Transformers Revenue Grade Small and Large Sizes

Description

The Siemens SCT-SRS and SCT-SRL series of hinged split-core current transformers are designed for Revenue Grade applications that require maximum accuracy and precision when used with the Siemens MD series power meter. The superior performance, robust design and unique shrouded snap, lock-and-tilt top of these CTs make them ideal for use in high accuracy current measurement applications such as energy and demand metering, tenant submetering and load surveys. These transformers are safely and easily installed over existing electrical power lines without disconnecting the lines or interrupting service.

Revenue Grade performance of these CTs meets or exceeds the accuracy specifications for IEC 61869-2 Class 0.2, IEC 60044-1 Class 0.3, and IEEE C57.13 Class 0.3.

The SRS 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.

Features

- Available with two window sizes:
 - Small (SCT-SRS) 0.4" (10.2 mm)
 - Large (SCT-SRL) 1.25" (31.8 mm)
- Available in five current ranges:

Model	Current Range
5A, Small	0.05 to 10A AC
50A, Small	0.5 to 100A AC
100A, Large	1.0 to 200A AC
200A, Large	2.0 to 400A AC
400A, Large	4.0 to 500A AC
- Output: 333.3 mV at rated current.
- Revenue Grade Accuracy.



SCT-SRS (Small) CT

SCT-SRL (Large) CT

Table 1. CT Dimensions in Inches (mm).

CT Size	Part Number	A	B	C	W
Small	SCT-SRS-005-U	2.4	1.65	0.85 - 1.1	0.4
	SCT-SRS-050-U	(61.0)	(41.9)	(21.6 – 27.9)	(10.2)
Large	SCT-SRL-100-U	3.3	3.1	1.3	1.25
	SCT-SRL-200-U	(83.8)	(78.8)	(33.0)	(31.8)
	SCT-SRL-400-U				

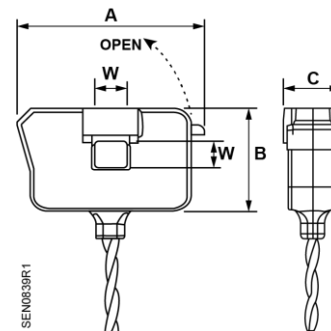


Figure 1. Small SCT-SRS Dimensions.

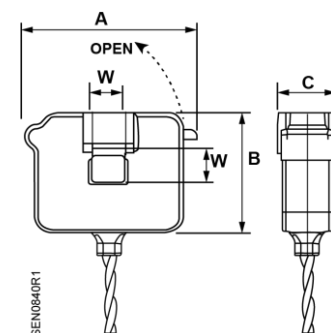




Figure 2. Large SCT-SRL Dimensions.

Specifications

Electrical	Output Signal	333.3 mV at rated current
	Wire Colors	White = (+) High, positive Black = (-) Low, negative
	Frequency Range	40 Hz to 400 Hz
	Phasing Orientation	Label to Source/White wire (+)
	Ratio Error	+/- 0.2% at rated current (typical)
	Phase Error	<0.2°
Mechanical	Case Material	120°C UL Recognized Plastic
	Leads	9.8 feet (3 m), twisted pair, 18 AWG MTW UL1015, 600V, 105°C
	Operating temperature	-40°C to 55°C (-40°F to 131°F)
	Weight	SCT-SRS 0.50 lb. SCT-SRL 0.65 to 0.75 lb
Safety	Working Voltage	600 Vac, Category III Double Insulated
	Dielectric Strength	7400 Vac
	Certifications	UL Listed to UL2808   Certified to CAN/CSA Standard C22.2 No. 61010-1
Accuracy	Meets the Accuracy Requirements For	IEC61869-2 Class 0.2 IEC 60044-1 Class 0.2 IEEE C57.13 Class 0.3

Ordering Information

Part Number	Description
Small Revenue Grade Split Core CTs	
SCT-SRS-005-U	Small Hinged Split-Core Revenue Grade CT; 0.4" Opening; 50A
SCT-SRS-050-U	Small Hinged Split-Core Revenue Grade CT; 0.4" Opening; 100A
Large Revenue Grade Split Core CTs	
SCT-SRL-100-U	Large Hinged Split-Core Revenue Grade CT; 1.25" Opening; 100A
SCT-SRL-200-U	Large Hinged Split-Core Revenue Grade CT; 1.25" Opening; 200A
SCT-SRL-400-U	Large Hinged Split-Core Revenue Grade CT; 1.25" Opening; 400A

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