



## Midi and Mini Hinged Split-Core Current Transformers

### Description

Siemens Midi and Mini Hinged Split-Core Current Transformers (CTs) are small, low-cost devices with high accuracy over a wide dynamic range with excellent phase shift. These current transformers are ideal where space is limited such as when metering multiple loads within a panel board. Use for current measurement, energy metering, load surveys, demand metering, energy research, and sub-metering. These devices are targeted for use with the Siemens MD Series Power Meters.



Midi Hinged Split-Core Current Transformer

### Features

- Window sizes:  
 0.4" (10 mm) for 50A (Mini)  
 1.0" (25 mm) for 100A, 200A (Midi)
- Available in three current ranges\*:  
 0.25 to 80A AC (for 50A)  
 1.0 to 200A AC (for 100A)  
 1.0 to 300A AC (for 200A)
- Output:  
 333 mV @ 50A AC (6.66 mV/A AC) (for 50A)  
 333 mV @ 100A AC (3.33 mV/A AC) (for 100A)  
 333 mV @ 200A AC (1.67 mV/A AC) (for 200A)
- Ratio Error:  
 <0.5% from 1.0A to 80A AC (typical) (for 50A)  
 <0.3% from 1.0A to 200A AC (typical) (for 100A)  
 <1.0% from 1.0A to 300A AC (typical) (for 200A)
- Phase Error:  
 <1.5° from 1.0A to 80A AC (for 50A)  
 <2° from 0.2A to 1A AC (for 50A)  
 <0.5° from 1.0A to 200A AC (for 100A)  
 <0.5° from 1.0A to 300A AC (for 200A)

\* May depend on meter compatibility. See associated Meter Specifications for details.

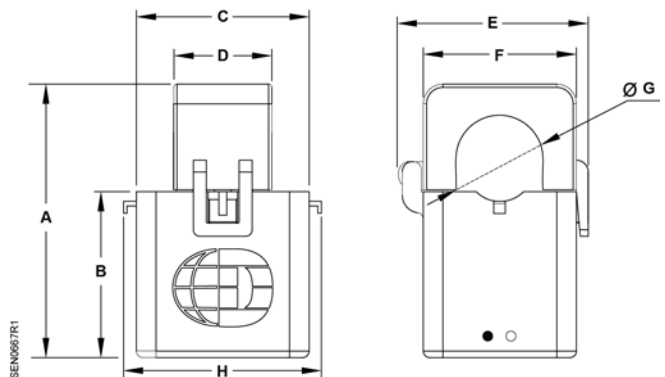
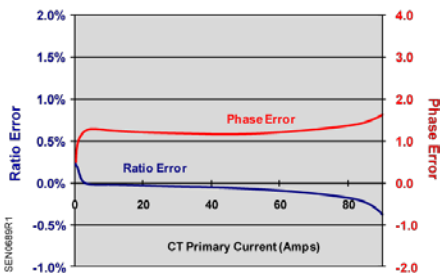


Table 1. Dimensions in Inches (Millimeters).

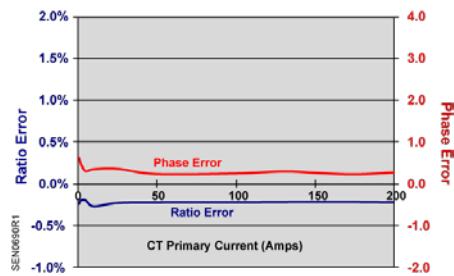
Model	Dimensions							
	A	B	C	D	E	F	G	H
Mini	1.64 (41.7)	1.00 (25.3)	1.04 (26.4)	0.60 (14.9)	1.16 (29.4)	0.92 (23.4)	0.40 (10.2)	N/A
Midi	2.76 (70.1)	1.62 (41.2)	1.52 (38.6)	0.80 (20.4)	2.00 (50.8)	1.71 (43.5)	1.00 (25.4)	1.85 (47.0)

## Specifications

Electrical	Output Signal	333 mV @ rated current
	Wire Colors	White = (+) Hi, positive Black = (-) Low, negative
	Phasing Orientation	Arrow on case points towards load
	Frequency Range	50 Hz to 400 Hz
Mechanical	Case Material	White Nylon, UL 94 V-0
	Leads	8 feet (2.4 m), 600V, 20 AWG, crimp ferrules on leads
	Operating Temperature	5°F to 140°F (-15°C to 60°C)
	Storage Temperature	-4°F to 185°F (-20°C to 85°C)
	Weight	Mini 3.2 oz (91 g) Midi 7.8 oz (221 g)
Safety	Working Voltage	600 Vac, Category III
	Dielectric Strength 100A, 200A	5200 Vac for 1 minute
	Certifications	UL Recognized to UL Standard 61010-1 UL certified to CAN/CSA Standard C22.2 No. 61010-1
	CE Conformity	CE Low Voltage Directive 2006/95/EC

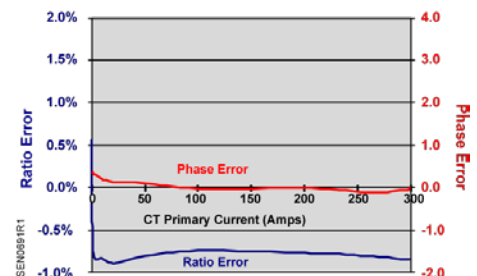


Phase Error/Ratio Error  
SCT-HSC-0050-U  
50A Mini



Phase Error/Ratio Error  
SCT-HMC-0100-U  
100A Midi

**NOTE:** Included in Meter Kit Model  
MD-xxx-3-CTSC-100A



Phase Error/Ratio Error  
SCT-HMC-0200-U  
200A Midi

**NOTE:** Included in Meter Kit Model  
MD-xxx-3-CTSC-200A

## Ordering Information

Part Number	Description
SCT-HSC-0050-U	Mini Hinged Split-Core Current Transformer, 0.4" (10 mm) Opening; 50A
SCT-HMC-0100-U	Midi Hinged Split-Core Current Transformer, 1" (25 mm) Opening; 100A
SCT-HMC-0200-U	Midi Hinged Split-Core Current Transformer, 1" (25 mm) Opening; 200A

Information in this document is based on specifications believed correct at the time of publication. The right is reserved to make changes as design improvements are introduced. Product or company names mentioned herein may be the trademarks of their respective owners. © 2014 Siemens Industry, Inc.