

Connecting a Midi or Mini Hinged Split-Core Current Transformer to a Load

Product Description

This is a step-by-step guide to connecting Siemens Midi or Mini Hinged Split-Core Current Transformers (CTs) to a load.



Contents


1 Hinged Split-Core Transformer

Product Numbers

SCT-HSC-0050-U	Mini Hinged Split-Core CT 0.4" Opening (10 mm), 50A
SCT-HMC-0100-U	Midi Hinged Split-Core CT 1" Opening, 100A
SCT-HMC-0200-U	Midi Hinged Split-Core CT 1" Opening, 200A

Warning/Caution Notations

WARNING:		Personal injury or loss of life may occur if you do not follow the procedures as specified.
CAUTION:		Equipment damage or loss of data may occur if you do not follow the procedures as specified.

	WARNING: All work should be performed by a qualified electrician using proper safety equipment.
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Equipment is protected throughout by double insulation (IEC 536 Class III).

Required Tools

Small flat-blade screwdriver

Expected Installation Time

15 minutes

Prerequisites

None

Installation

1. Use a small, flat-blade screwdriver to open the CT by undoing the latch and pulling the CT open. See Figure 1.

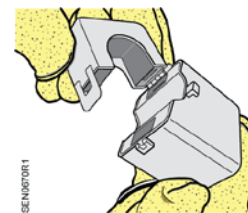


Figure 1. Open the CT.

2. Install the CT around the load conductor to be measured. Verify that the arrow on the black connector points toward load. See Figure 2.

NOTE: Ensure that the maximum current of the conductor does not exceed the CT's rating.

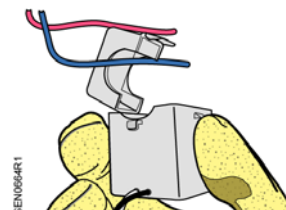


Figure 2. Install CT around Conductor. Verify that the arrow on the CT points toward the load.

3. Reconnect the latch; you will hear it click when it is properly closed. The conductor should be in the inside of the CT Window. See Figure 3.

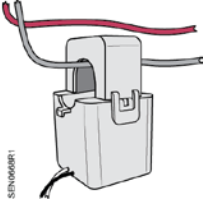


Figure 3. Installed CT.

4. Repeat Steps 1 through 3 if you are using more than one CT.
5. (Optional) Use two zip ties to secure the CT to the conductor by wrapping one zip tie around each of the CT's mounting brackets. This will ensure that the CT does not slide on the conductor once installed. See Figure 4.

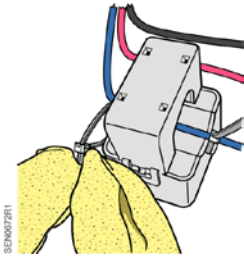


Figure 4. CT with Zip Ties Installed.

6. Connect the white wire on the CT to the positive terminal (+) on the measuring device. See Figure 5.
7. Connect the black wire on the CT to the negative terminal (-) on the measuring device. No connection will be made to the shield (S) terminal. See Figure 5.
8. If the digital energy meter is powered, verify that the CT LED next to the wired CT terminal block is GREEN. If it is RED, verify that the CT is on the correct phase and/or is installed with the arrow pointing toward the load. After it is corrected, the LED will change to GREEN.

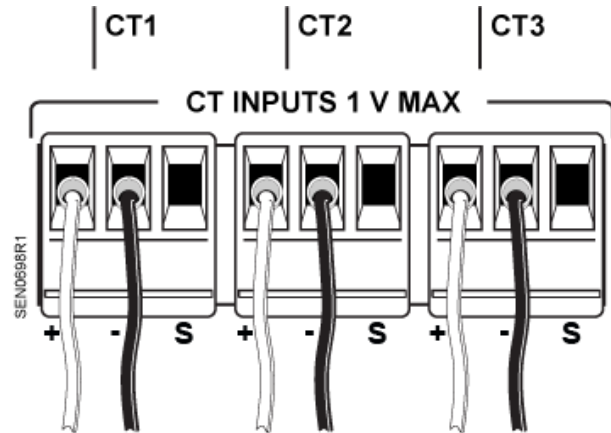


Figure 5. Connect White Wire to Positive (+) Terminal.
Connect Black Wire to Negative (-) Terminal.

You are now ready to begin your monitoring session.

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