

Connecting a Rogowski Coil Flexible Current Transformer to a Load

Product Description

This is a step-by-step guide to connecting Siemens Industry's Rogowski Coil Flexible Current Transformer (CT) to a load.



Contents


1 Rogowski Coil


Product Number

SCT-R16-A4-U	16" Rogowski Coil
SCT-R24-A4-U	24" Rogowski Coil
SCT-R36-A4-U	36" Rogowski Coil

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.
---	---

 Equipment is protected throughout by double insulation.

Required Tools

None

Expected Installation Time

15 minutes

Prerequisites

None

Installation

1. Open the CT by squeezing the connector and pulling apart. See Figure 1.

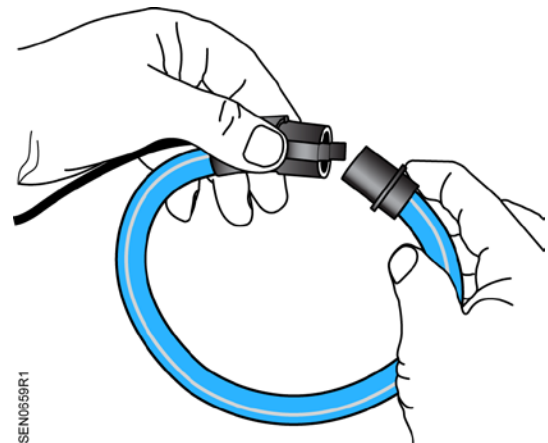


Figure 1. Open CT.

2. Install the CT around the load conductor to be measured. Verify the CT is installed with the arrow on the black connector pointing towards load. See Figure 2.

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

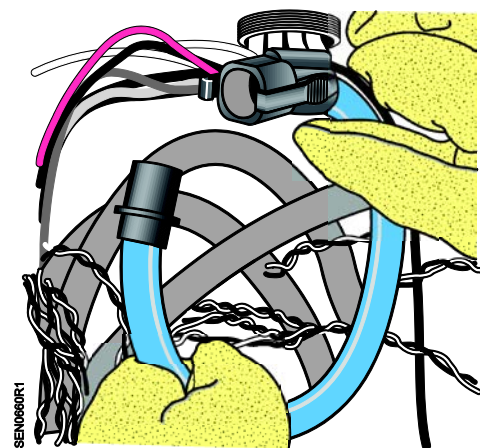


Figure 2. Install CT around Conductor.

3. Push the connector back together. The conductor should be in the inside of the CT Window. See Figure 2.
4. Repeat Steps 1 through 3 if you are using more than one CT.
5. Connect the brown wire on the CT to the negative (-) terminal on the measuring device. See Figure 3.
6. Connect the white wire on the CT to the positive terminal (+) on the measuring device. See Figure 3.
7. Connect the bare wire to the shield (S Terminal). This reduces interference and improves the accuracy of the CT. See Figure 3.
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 Rogowski Coil 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.

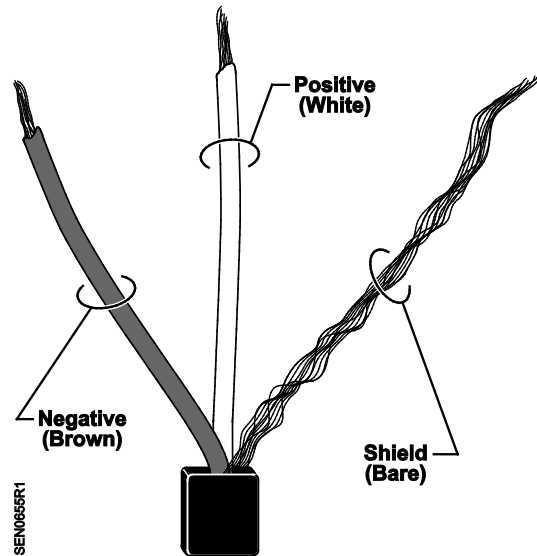


Figure 3. Connect Brown Wire to Negative (-) Terminal. Connect White Wire to Positive (+) Terminal. Connect Bare Wire to Shield (S).

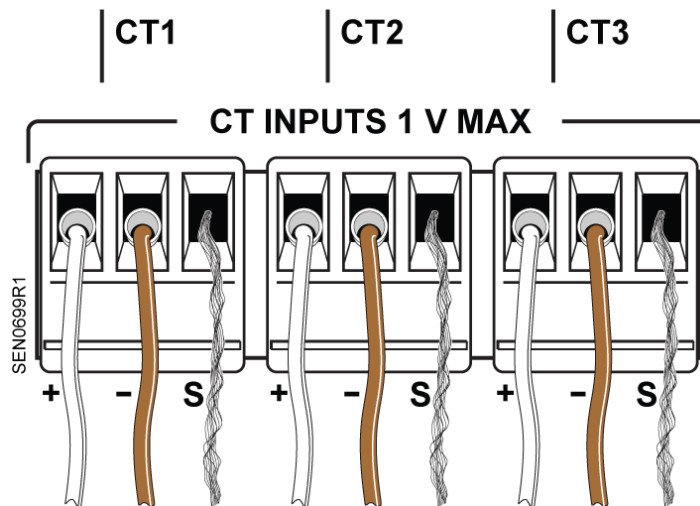


Figure 4. Wiring Diagram.

You are now ready to begin your monitoring session.

Information in this publication is based on current specifications. The company reserves the right to make changes in specifications and models as design improvements are introduced. Other product or company names mentioned herein may be the trademarks of their respective owners. © 2014 Siemens Industry, Inc.