Terminal Block Assembly Wiring

This document describes how to wire the VTFB-6 and CTSB-10 terminal block assemblies, available for use with Schneider Electric CT’s and VT’s.

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Additional Information

◆ Your meter’s Installation Guide

Electrical equipment should be installed, operated, serviced, and maintained only by qualified personnel. No responsibility is assumed by Schneider Electric for any consequences arising out of the use of this material.

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VT Fuse Block Assembly

The PowerLogic® VT fuse block assembly is part number VTFB-6 and comes pre-assembled on a DIN rail with:

- three fused terminals
- three terminal blocks
- one end cover
- two end brackets
- one 3-way fixed bridge
- three 2-Amp fuses (Littelfuse, part number KLK002, or equivalent).

VTFB-6 Diagram

Individual components may not be exactly as shown.
VTFB-6 Specifications

**Fused Terminal Block**

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting</td>
<td>35 mm DIN rail</td>
</tr>
<tr>
<td>Fuse</td>
<td>Midget fuse (10.3 x 38 mm)</td>
</tr>
<tr>
<td>Nominal voltage rating</td>
<td>600 V</td>
</tr>
<tr>
<td>Nominal current rating</td>
<td>30 A</td>
</tr>
<tr>
<td>Conductor size</td>
<td>14 to 8 AWG</td>
</tr>
<tr>
<td>Standards compliance</td>
<td>UL and CSA approved</td>
</tr>
</tbody>
</table>

**Terminal Block**

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting</td>
<td>35 mm DIN rail</td>
</tr>
<tr>
<td>Bridging method</td>
<td>Bridging via the 3-way Fixed bridge</td>
</tr>
<tr>
<td>Nominal voltage rating</td>
<td>600 V</td>
</tr>
<tr>
<td>Nominal current rating</td>
<td>30 A</td>
</tr>
<tr>
<td>Conductor size</td>
<td>22 to 10 AWG</td>
</tr>
<tr>
<td>Standards compliance</td>
<td>UL and CSA approved</td>
</tr>
</tbody>
</table>

**VTFB-6 Dimensions**

The dimensions indicated below are approximate. The actual part may measure differently than indicated, depending on the manufacturer.

![Diagram showing dimensions (85 mm, 93 mm, 150 mm)]
CT Shorting Block Assembly

The PowerLogic CT shorting block assembly is part number CTSB-10 and comes pre-assembled on a DIN rail with:

- six switchable terminals
- four terminal blocks
- one end cover
- two end brackets
- one 4-way switch bar
- one 2-way switch bar
- one 4-way fixed bridge

CTSB-10 Diagram

![CT Shorting Block Assembly Diagram]

NOTE

Individual components may not be exactly as shown.
**CTSB-10 Specifications**

### Switchable Terminal Block

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting</td>
<td>35 mm DIN rail</td>
</tr>
<tr>
<td>Switching / shorting method</td>
<td>Sliding link to open CT secondary circuit for test/maintenance purposes. Shorting mechanism to short CT secondary circuit for test/maintenance purposes.</td>
</tr>
<tr>
<td>Nominal voltage rating</td>
<td>300 V</td>
</tr>
<tr>
<td>Nominal current rating</td>
<td>45 A</td>
</tr>
<tr>
<td>Conductor size</td>
<td>20 to 8 AWG</td>
</tr>
<tr>
<td>Standards compliance</td>
<td>UL and CSA approved</td>
</tr>
</tbody>
</table>

### Terminal Block

<table>
<thead>
<tr>
<th>Description</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Mounting</td>
<td>35 mm DIN rail</td>
</tr>
<tr>
<td>Bridging method</td>
<td>Bridging via the 4-way Fixed bridge.</td>
</tr>
<tr>
<td>Nominal voltage rating</td>
<td>600 V</td>
</tr>
<tr>
<td>Nominal current rating</td>
<td>45 A</td>
</tr>
<tr>
<td>Conductor size</td>
<td>20 to 8 AWG</td>
</tr>
<tr>
<td>Standards compliance</td>
<td>UL and CSA approved</td>
</tr>
</tbody>
</table>

### CTSB-10 Dimensions

The dimensions indicated below are approximate. The actual part may measure differently than indicated, depending on the manufacturer.
DEPTH CLEARANCE
66mm

100 mm

105 mm

160 mm
Wiring Diagrams

⚠️ DANGER

Only licensed electricians who have appropriate training and experience with high voltage and current devices should install and wire the terminal block assemblies.

The following diagrams illustrate how to wire the terminal block assemblies to the electrical system and to the power meter.

Use these diagrams in conjunction with the wiring information contained in your ION meter’s Installation Guide.

All unused inputs should be connected to chassis ground.

Single-Phase
4-Wire Wye, 3-Element Direct
4-Wire Wye, 3-Element, 3 VT
4-Wire Wye, 2½-Element, 2 VT
3-Wire Solid Grounded Wye, 3-Element Direct
3-Wire Delta, 2½-Element Direct (ION7500 / ION7600)
3-Wire Delta, Direct (ION7300 series)
3-Wire Delta, 2½-Element, 2 VT & 3 CT

Diagram showing the wiring configuration for a 3-Wire Delta, 2½-Element, 2 VT & 3 CT terminal block assembly.
3-Wire Delta, 2-Element, 2 VT & 2 CT