FD PV circuit breaker

⚠️ WARNING

DO NOT ATTEMPT TO INSTALL OR PERFORM MAINTENANCE ON EQUIPMENT WHILE IT IS ENERGIZED. DEATH, SEVERE PERSONAL INJURY, OR SUBSTANTIAL PROPERTY DAMAGE CAN RESULT FROM CONTACT WITH ENERGIZED EQUIPMENT. ALWAYS VERIFY THAT NO VOLTAGE IS PRESENT BEFORE PROCEEDING WITH THE TASK AND ALWAYS FOLLOW GENERALLY ACCEPTED SAFETY PROCEDURES. EATON IS NOT LIABLE FOR THE MISAPPLICATION OR MISINSTALLATION OF ITS PRODUCTS.

Figure 1. FD PV Circuit Breaker

Figure 2. FD PV Dimensions
FD PV circuit breaker

**Figure 3. Mounting**

**Figure 4. Connections**

<table>
<thead>
<tr>
<th>Wire Size Range</th>
<th>Terminal Body Material</th>
<th>AWG</th>
<th>Torque</th>
<th>Catalog Number</th>
</tr>
</thead>
<tbody>
<tr>
<td>14–10</td>
<td>Aluminum</td>
<td>35</td>
<td>4.0</td>
<td>TA50FB</td>
</tr>
<tr>
<td>8</td>
<td>Aluminum</td>
<td>40</td>
<td>4.5</td>
<td>TA50FB</td>
</tr>
<tr>
<td>6–4</td>
<td>Aluminum</td>
<td>45</td>
<td>5.1</td>
<td>TA50FB</td>
</tr>
<tr>
<td>4–4/0</td>
<td>Aluminum</td>
<td>120</td>
<td>13.6</td>
<td>TA225FD</td>
</tr>
<tr>
<td>4–4/0</td>
<td>Copper</td>
<td>120</td>
<td>13.6</td>
<td>T225FD</td>
</tr>
</tbody>
</table>

**Figure 5. Operation**

**Figure 6. Four-Pole in Series**

- Interphase Barriers, IPB1, if Required
- Customer Connection Poles in Series
  - Load connected to PV power source.
  - Grounded or ungrounded systems that have one end of load (A) connected to grounded terminal opposite poles in series connection.

- Interphase Barriers, IPB1, if Required
- Customer Connection Poles in Series
  - Load isolated from power source.
  - Ungrounded systems ONLY.