### Instruction Leaflet for J-Frame Circuit Breakers and Motor Circuit Protectors

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**Warning**

DO NOT ATTEMPT TO INSTALL OR PERFORM MAINTENANCE ON EQUIPMENT WHILE IT IS ENERGIZED. DEATH OR SEVERE PERSONAL INJURY CAN RESULT FROM CONTACT WITH ENERGIZED EQUIPMENT. ALWAYS VERIFY THAT NO VOLTAGE IS PRESENT BEFORE PROCEEDING.

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2.

**Diagram 1:**

- Breaker Handle
- Line
- Load
- 0.5 (12.7mm)
- 0.625 (15.9)
- 0.281 (7.1mm)
- 0.188 (4.8mm)
- 5.5 (139.7mm)
- 1.375 (34.8mm)
- 0.781 (19.8mm)
- 2.052 (62.4mm)
- 3.922 (99.8mm)
- 8-32 Tap (4x0.7mm)

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3.

**Diagram 2:**

- Breaker Handle
- Line
- Load
- 0.5 (12.7mm)
- 5.375 (136.5mm)
- 2.00 (50.8mm)
- 2.047 (52mm)
- 1.016 (25.8mm)
- 2.078 (52.8mm)
- 0.625 (15.9)
- 1.25 (31.8mm)
- R 0.188 (4.8mm)
- 0.281 (7.1mm)
- 0.188 (4.8mm)
10 in-lb (1.1 N m)

RESET
PUSH TO TRIP

ON
TRIP
OFF
RESET
PUSH TO TRIP

120-144 in-lb (14-16 N-m)

See Table

<table>
<thead>
<tr>
<th>Catalog Number</th>
<th>Wire Size Range</th>
<th>Wire Type</th>
<th>Terminal Body Material</th>
</tr>
</thead>
<tbody>
<tr>
<td>T250FJ</td>
<td>4-350 25-185</td>
<td>Cu</td>
<td>STAINLESS STEEL</td>
</tr>
<tr>
<td>TA250FJ</td>
<td>4-350 25-185</td>
<td>Cu/Al</td>
<td>ALUMINUM</td>
</tr>
<tr>
<td>TC250FJ</td>
<td>4-350 25-185</td>
<td>Cu/Al</td>
<td>COPPER</td>
</tr>
</tbody>
</table>

* Standard collars mounted on line and load end
1. LED - This LED indicates an overload condition is present. It will light if the continuous current is 85% of the Ir Setting for a 38 second duration.

2. Ir-Continuous Current Setting. Continuous Current Values for each lettered setting are indicated by the chart shown at the right. Please select the value closest to the Motor Nameplate Full Load Current (FLA). The circuit breaker will trip when the current exceeds 115% of the Ir Continuous Current Setting. A "Thermal Memory" effect prevents the breaker from being re-energized.

3. Trip Class
   The trip class switch has two sets of four settings:
   Settings J-M are without phase unbalance detection
   J - Trip Class 10
   K - Trip Class 15
   L - Trip Class 20
   M - Trip Class 30
   Settings N-Q are with phase unbalance detection
   N - Trip Class 10
   O - Trip Class 15
   P - Trip Class 20
   Q - Trip Class 30

4. Status LED
   A green Status light indicates that the Circuit Breaker is operational. The status light will blink on and off once each second as long as the load current exceeds approximately 20% of the maximum current rating (Ir) of the breaker.