










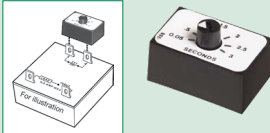





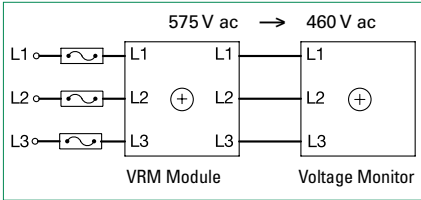
# ELECTRICAL

| ELECTRICAL ACCESSORIES   |  |  |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
|--|--|--|---------|-----------|----------|-------|-----------|-----|---|---|--|--------|----------|------------|--------|----------|--|--------|----------|------------|------|----------|--|--------|----------|--|------|----------|------------|------|----------|--|------|---|--|
| Product  | Features   | Accessory For  |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| <p><b>PGA-1100.0010</b><br/>Diode Logic Unit</p>    | <p>Used in installations with more than one breaker and more than one Littelfuse Arc-Flash Relay. It separates the trip paths, so the breakers can be tripped independently from each other.</p> <p><b>Full datasheet and ordering information available at <a href="http://www.littelfuse.com/pga1100">www.littelfuse.com/pga1100</a></b></p> | <p><b>PGR-8800 D0920</b>      <b>AF0500 D1000</b>      <b>AF0100</b></p> |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| <p><b>P1004-XX-(X)</b><br/>Versa-Pot</p> <table border="1"> <thead> <tr> <th>PART NUMBER</th> <th>WITH WIRE LEADS</th> <th>VALUE</th> </tr> </thead> <tbody> <tr><td>P1004-199</td><td></td><td>50 kΩ</td></tr> <tr><td>P1004-174</td><td></td><td>100 kΩ</td></tr> <tr><td>P1004-175</td><td></td><td>200 kΩ</td></tr> <tr><td>P1004-95</td><td>P1004-95-X</td><td>100 kΩ</td></tr> <tr><td>P1004-17</td><td></td><td>500 kΩ</td></tr> <tr><td>P1004-16</td><td>P1004-16-X</td><td>1M Ω</td></tr> <tr><td>P1004-15</td><td></td><td>1.5M Ω</td></tr> <tr><td>P1004-14</td><td></td><td>2M Ω</td></tr> <tr><td>P1004-12</td><td>P1004-12-X</td><td>3M Ω</td></tr> <tr><td>P1004-13</td><td></td><td>5M Ω</td></tr> </tbody> </table>  | PART NUMBER  | WITH WIRE LEADS  | VALUE   | P1004-199 |          | 50 kΩ | P1004-174 |     | 100 kΩ  | P1004-175   |  | 200 kΩ | P1004-95 | P1004-95-X | 100 kΩ | P1004-17 |  | 500 kΩ | P1004-16 | P1004-16-X | 1M Ω | P1004-15 |  | 1.5M Ω | P1004-14 |  | 2M Ω | P1004-12 | P1004-12-X | 3M Ω | P1004-13 |  | 5M Ω | <p>Panel mountable, industrial potentiometer recommended for remote time delay adjustment. The shaft is slotted for screwdriver adjustment and serrated for slip-proof finger adjustment. Accepts Versa-Knob or Lock Shaft. May be ordered with two 8 in (20.3 cm) wires soldered to pot (clockwise increase) and female quick connect terminals on other ends by adding suffix -X to end of part number.</p> <p><b>Specifications</b><br/> <b>Rating</b>                      0.25 W at 55 °C<br/> <b>Taper</b>                         Linear<br/> <b>Shaft Rotation</b>            300° ±5°<br/> <b>Tolerance</b>                   ±10 %<br/> <b>Shaft Diameter</b>           0.25 in</p> | <p>P1004-95 &amp; P1004-95-X:<br/><b>Consult individual datasheet for compatibility</b></p> <p>P1004-174 &amp; P1004-175:<br/><b>PHS Series</b></p> <p>P1004-16 &amp; P1004-16-X:<br/><b>Series: ERDM ERDI ERD3 TRB TRM TRS TS1 TS6</b></p> <p>P1004-15, P1004-14, P1004-13, P1004-12, &amp; P1004-12-X:<br/><b>Series: ORB ORM ORS TAC1 THD7 TRB TRM TRS TS1 TS2 TS4 TS6 TSD7 TSU2000</b></p> |
| PART NUMBER  | WITH WIRE LEADS  | VALUE  |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| P1004-199  |  | 50 kΩ  |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| P1004-174  |  | 100 kΩ   |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| P1004-175  |  | 200 kΩ   |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| P1004-95   | P1004-95-X   | 100 kΩ   |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| P1004-17   |  | 500 kΩ   |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| P1004-16   | P1004-16-X   | 1M Ω   |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| P1004-15   |  | 1.5M Ω   |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| P1004-14   |  | 2M Ω   |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| P1004-12   | P1004-12-X   | 3M Ω   |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| P1004-13   |  | 5M Ω   |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| <p><b>P0700-7</b><br/>Versa-Knob</p>    | <p>Versa-Knob is designed for 0.25 in (6.35 mm) shaft of Versa-Pot. Semi-gloss industrial black finish.</p>  | <p><b>P1004-XX-(X)</b></p>   |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| <p><b>P0700-8</b><br/>Lock Shaft</p>    | <p>Fits 0.25 in (6.35 mm) potentiometer shafts. Locks by tightening nut onto four tapered/slotted fingers. Pressure on the shaft locks control against mis-adjustment. Nickel plated brass finish.</p>   | <p><b>P1004-XX-(X)</b></p>   |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| <p><b>P1004-9</b><br/><b>P1004-10</b><br/><b>P1004-31</b><br/>Mini-Pot</p>  <table border="1"> <thead> <tr> <th>PART NUMBER</th> <th>VALUE</th> </tr> </thead> <tbody> <tr><td>P1004-9</td><td>500kΩ</td></tr> <tr><td>P1004-10</td><td>1MΩ</td></tr> <tr><td>P1004-31</td><td>3MΩ</td></tr> </tbody> </table>  | PART NUMBER  | VALUE  | P1004-9 | 500kΩ     | P1004-10 | 1MΩ   | P1004-31  | 3MΩ | <p>A high quality, industrial potentiometer for remote time delay adjustment. The shaft extends through the timer's center hole for easy panel mounting. Use mini-mount bracket for standup mounting of timer. Adjustment by screwdriver or mini-knob. May be ordered with two 3 in (7.6 cm) wires soldered to pot (clockwise increase) and female quick connect terminals on other ends by adding suffix -X to end of part number.</p> <p><b>Specifications</b><br/> <b>Rating</b>                      0.25 W at 55 °C<br/> <b>Taper</b>                         Linear<br/> <b>Shaft Rotation</b>            300° ±5°<br/> <b>Tolerance</b>                   ±10 %<br/> <b>Shaft Diameter</b>           0.125 in (3.2 mm)</p> | <p><b>Series: TAC1 TS1 TS2 TS4 TS6 TSD7 TSU2000</b></p> |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| PART NUMBER  | VALUE  |  |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| P1004-9  | 500kΩ  |  |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| P1004-10   | 1MΩ  |  |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| P1004-31   | 3MΩ  |  |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |
| <p><b>P0700-21</b><br/>Mini-Knob</p>    | <p>Mini-Knob is designed for 0.125 in (3.2 mm) shaft of Mini-Pot. Semi-gloss industrial black finish.</p>  | <p><b>P1004-9</b>      <b>P1004-10</b>      <b>P1004-31</b></p>          |         |           |          |       |           |     |   |   |  |        |          |            |        |          |  |        |          |            |      |          |  |        |          |  |      |          |            |      |          |  |      |   |  |

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| ELECTRICAL ACCESSORIES  |                      |  | ELECTRICAL ACCESSORIES |  |           | Accessory For |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
|---|----------------------|--|------------------------|--|-----------|---------------|----------|-------------|----------------------|----------|-------------|----------------------|----------|------------|--------|----------|----------|------|----------|----------|--------|----------|--------|------|--|-------|---|---------|-------|------|----------|-------|--------|---------|-------|------|---------|-------|------|---------|-------|------|---------|-------|------|---------|-------|------|---------|-------|------|---------|-------|------|-----------|-------|------|---------|-------|------|----------|-------|------|--------|-------|------|---------|-------|------|--------|-------|-------|----------|-------|------|---------|--|--|--|
| Product   |                      | Features   |                        | Accessory For  |           |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| <p><b>P0200-19</b><br/>Heat Sink Compound<br/>2 grams</p>  <p><b>P0200-20</b><br/>Heat Sink Compound<br/>100 grams</p>  |                      | <p>Single package/container of heat sink compound consisting of primarily zinc oxide and having a 12 month shelf life (EOD date on the label). P0200-19 mounts one high current, plated 2 x 2 in (50.8 x 50.8 mm) timer or flasher. P0200-20 mounts 50+ units.</p>   |                        | <p><b>Any 2 x 2 in (50.8 x 50.8 mm) plated timer or flasher.</b></p>   |           |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| <p><b>P1015-18</b><br/>Quick Connect Screw Adaptor</p>   |                      | <p>Screw adaptor terminal designed for use with all modules with 0.25 in (6.35 mm) male quick connect terminals. Screw terminal accepts ring or spade terminals.</p>   |                        | <p><b>Modules with 0.25 in (6.35 mm) male quick connect terminals. Consult the individual datasheet to determine compatibility.</b></p>  |           |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| <p><b>P1015-13</b><br/><b>P1015-64</b><br/><b>P1015-14</b><br/>Female Quick Connect Terminals</p>    |                      | <p>These 0.25 in (6.35 mm) female terminals are constructed with an insulator barrel to provide strain relief.</p>   |                        | <p><b>Consult individual datasheet to determine compatibility.</b></p>   |           |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| <p><b>P0400</b><br/>Time Adjustment Dials</p>    |                      | <table border="1"> <thead> <tr> <th>PART NUMBER</th> <th>RANGE</th> <th>INCREMENTS</th> </tr> </thead> <tbody> <tr> <td>P0400-12</td> <td>0.05 - 1 s</td> <td>0.1 s</td> </tr> <tr> <td>P0400-86</td> <td>0.1 - 10 m</td> <td>1 m</td> </tr> <tr> <td>P0400-82</td> <td>0.1 - 10 s</td> <td>1 s</td> </tr> <tr> <td>P0400-17</td> <td>1 - 30 s</td> <td>5 s</td> </tr> <tr> <td>P0400-83</td> <td>1 - 60 s</td> <td>10 s</td> </tr> <tr> <td>P0400-27</td> <td>0 - 10</td> <td>MRD*</td> </tr> </tbody> </table> <p>*Multiplier Reference Dial</p> |                        | PART NUMBER  | RANGE     | INCREMENTS    | P0400-12 | 0.05 - 1 s  | 0.1 s                | P0400-86 | 0.1 - 10 m  | 1 m                  | P0400-82 | 0.1 - 10 s | 1 s    | P0400-17 | 1 - 30 s | 5 s  | P0400-83 | 1 - 60 s | 10 s   | P0400-27 | 0 - 10 | MRD* | <p>Dials for use with remote Versa-Pot and panel mounted Mini-Pot. Reverse screen printed on clear plastic to avoid damage to printed image.</p> |       | <p><b>P1004-9      P1004-10      P1004-12</b><br/><b>P1004-13      P1004-16      P1004-31</b><br/><b>P1004-95</b></p> |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| PART NUMBER   | RANGE                | INCREMENTS   |                        |  |           |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| P0400-12  | 0.05 - 1 s           | 0.1 s  |                        |  |           |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| P0400-86  | 0.1 - 10 m           | 1 m  |                        |  |           |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| P0400-82  | 0.1 - 10 s           | 1 s  |                        |  |           |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| P0400-17  | 1 - 30 s             | 5 s  |                        |  |           |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| P0400-83  | 1 - 60 s             | 10 s   |                        |  |           |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| P0400-27  | 0 - 10               | MRD*   |                        |  |           |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| <p><b>VTPXX</b><br/>VTP</p>    |                      | <p>The VTP Series mounts on modules with in-line adjustment terminals. Rated at 0.25 W at 55 °C. Available in resistance values from 5 kΩ to 5 MΩ</p>  |                        | <table border="1"> <thead> <tr> <th>PART NUMBER</th> <th>R<sub>T</sub> VALUE</th> <th>RANGE</th> <th>PART NUMBER</th> <th>R<sub>T</sub> VALUE</th> <th>RANGE</th> </tr> </thead> <tbody> <tr> <td>VTP0E</td> <td>250 kΩ</td> <td>0.5–20s</td> <td>VTP3L</td> <td>2 MΩ</td> <td>0.1–4 m</td> </tr> <tr> <td>VTP1B</td> <td>0.5 MΩ</td> <td>0.05–3s</td> <td>VTP4B</td> <td>3 MΩ</td> <td>0.05–3 s</td> </tr> <tr> <td>VTP1C</td> <td>0.5 MΩ</td> <td>0.1–10s</td> <td>VTP4F</td> <td>3 MΩ</td> <td>0.5–60 s</td> </tr> <tr> <td>VTP1D</td> <td>0.5 MΩ</td> <td>0.5–10s</td> <td>VTP4J</td> <td>3 MΩ</td> <td>2–180 s</td> </tr> <tr> <td>VTP2A</td> <td>1 MΩ</td> <td>0.05–1s</td> <td>VTP4P</td> <td>3 MΩ</td> <td>1–100 m</td> </tr> <tr> <td>VTP2C</td> <td>1 MΩ</td> <td>0.1–10s</td> <td>VTP5G</td> <td>5 MΩ</td> <td>1–100 s</td> </tr> <tr> <td>VTP2E</td> <td>1 MΩ</td> <td>0.5–20s</td> <td>VTP5K</td> <td>5 MΩ</td> <td>10–1000 s</td> </tr> <tr> <td>VTP2F</td> <td>1 MΩ</td> <td>0.5–60s</td> <td>VTP5N</td> <td>5 MΩ</td> <td>0.1–10 m</td> </tr> <tr> <td>VTP2J</td> <td>1 MΩ</td> <td>2–180s</td> <td>VTP5P</td> <td>5 MΩ</td> <td>1–100 m</td> </tr> <tr> <td>VTP2P</td> <td>1 MΩ</td> <td>1–100m</td> <td>VTPDF</td> <td>50 kΩ</td> <td>0.5–60 s</td> </tr> <tr> <td>VTP3B</td> <td>2 MΩ</td> <td>0.05–3s</td> <td></td> <td></td> <td></td> </tr> </tbody> </table> <p><b>Series: TAC1    THD7    THDM    TS1</b><br/><b>TS2    TS4    TS6    TS7</b></p> |           |               |          | PART NUMBER | R <sub>T</sub> VALUE | RANGE    | PART NUMBER | R <sub>T</sub> VALUE | RANGE    | VTP0E      | 250 kΩ | 0.5–20s  | VTP3L    | 2 MΩ | 0.1–4 m  | VTP1B    | 0.5 MΩ | 0.05–3s  | VTP4B  | 3 MΩ | 0.05–3 s   | VTP1C | 0.5 MΩ  | 0.1–10s | VTP4F | 3 MΩ | 0.5–60 s | VTP1D | 0.5 MΩ | 0.5–10s | VTP4J | 3 MΩ | 2–180 s | VTP2A | 1 MΩ | 0.05–1s | VTP4P | 3 MΩ | 1–100 m | VTP2C | 1 MΩ | 0.1–10s | VTP5G | 5 MΩ | 1–100 s | VTP2E | 1 MΩ | 0.5–20s | VTP5K | 5 MΩ | 10–1000 s | VTP2F | 1 MΩ | 0.5–60s | VTP5N | 5 MΩ | 0.1–10 m | VTP2J | 1 MΩ | 2–180s | VTP5P | 5 MΩ | 1–100 m | VTP2P | 1 MΩ | 1–100m | VTPDF | 50 kΩ | 0.5–60 s | VTP3B | 2 MΩ | 0.05–3s |  |  |  |
| PART NUMBER   | R <sub>T</sub> VALUE | RANGE  | PART NUMBER            | R <sub>T</sub> VALUE   | RANGE     |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| VTP0E   | 250 kΩ               | 0.5–20s  | VTP3L                  | 2 MΩ   | 0.1–4 m   |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| VTP1B   | 0.5 MΩ               | 0.05–3s  | VTP4B                  | 3 MΩ   | 0.05–3 s  |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| VTP1C   | 0.5 MΩ               | 0.1–10s  | VTP4F                  | 3 MΩ   | 0.5–60 s  |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| VTP1D   | 0.5 MΩ               | 0.5–10s  | VTP4J                  | 3 MΩ   | 2–180 s   |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| VTP2A   | 1 MΩ                 | 0.05–1s  | VTP4P                  | 3 MΩ   | 1–100 m   |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| VTP2C   | 1 MΩ                 | 0.1–10s  | VTP5G                  | 5 MΩ   | 1–100 s   |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| VTP2E   | 1 MΩ                 | 0.5–20s  | VTP5K                  | 5 MΩ   | 10–1000 s |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| VTP2F   | 1 MΩ                 | 0.5–60s  | VTP5N                  | 5 MΩ   | 0.1–10 m  |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| VTP2J   | 1 MΩ                 | 2–180s   | VTP5P                  | 5 MΩ   | 1–100 m   |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| VTP2P   | 1 MΩ                 | 1–100m   | VTPDF                  | 50 kΩ  | 0.5–60 s  |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |
| VTP3B   | 2 MΩ                 | 0.05–3s  |                        |  |           |               |          |             |                      |          |             |                      |          |            |        |          |          |      |          |          |        |          |        |      |  |       |   |         |       |      |          |       |        |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |         |       |      |           |       |      |         |       |      |          |       |      |        |       |      |         |       |      |        |       |       |          |       |      |         |  |  |  |

# ELECTRICAL

| ELECTRICAL ACCESSORIES   |                        |   |   |   |          |  |  |                    |                         |          |          |          |          |          |   |  |  |
|--|------------------------|---|---|---|----------|--|--|--------------------|-------------------------|----------|----------|----------|----------|----------|---|--|--|
| Product  |                        | Features  |   |   |          |  | Accessory For  |                    |                         |          |          |          |          |          |   |  |  |
| <p><b>LPSM003ZXID</b><br/>Indicating Fuse Holder</p> <p><b>LPSM003Z</b><br/>Non-indicating Fuse Holder</p>  |                        | <p>Littelfuse POWR-SAFE Dead Front holders provide optimum protection to personnel for Class CC and Midget-Style fuses. 600 V ac/dc</p>   |   |   |          |  | <p><b>Class CC and Midget-Style fuses</b></p>                              |                    |                         |          |          |          |          |          |   |  |  |
| <p><b>OKLK002.T</b><br/>Midget Fuse (2 Amp)</p>   |                        | <p>10 x 38 fast acting, high-interrupting capacity, current-limiting type fuse. 600 V ac/500 V dc</p>   |   |   |          |  | <b>FH3P</b>  | <b>LPSM003ZXID</b> | <b>LPSM003Z</b>         |          |          |          |          |          |   |  |  |
| <p><b>VRM6048</b><br/>Voltage Monitor Accessory Module</p>    |                        | <p>The VRM6048 accessory module allows the voltage monitor to monitor a 3-phase 550 to 600 V ac Line.</p> <p><b>Adjustment</b> If the measured line voltage is 575 V ac, connect as shown and adjust/select the voltage monitor for 460 V ac operation.</p> <p><b>Package</b> Molded housing with encapsulated circuitry</p> <p><b>Mounting</b> Surface mount with one #10 (M5 x 0.8) plastic screw. May be DIN-rail mounted using P1023-20 Adaptor.</p> <p><b>Termination</b> Screw terminals with captive wire clamps for up to No.12 AWG wire.</p> <p><b>Operating Storage Humidity Voltage</b> -40 °C to 70 °C<br/>-40 °C to 85 °C<br/>95 % relative, non-condensing</p> <table border="1"> <thead> <tr> <th>Input</th> <th>Output*</th> </tr> </thead> <tbody> <tr> <td>600 V ac</td> <td>480 V ac</td> </tr> <tr> <td>575 V ac</td> <td>460 V ac</td> </tr> <tr> <td>550 V ac</td> <td>440 V ac</td> </tr> </tbody> </table> <p>*The VRM6048 must be connected as shown. If the voltage monitor is disconnected, the VRM output voltage equals the input voltage.</p> |   |   |          |  | Input  | Output*            | 600 V ac                | 480 V ac | 575 V ac | 460 V ac | 550 V ac | 440 V ac | <p><b>Series:</b></p> <p><b>PLM</b><br/><b>PLR</b><br/><b>PLS</b><br/><b>TVM</b><br/><b>TVW</b><br/><b>(manufactured after December 2003)</b></p> |  |  |
| Input  | Output*                |   |   |   |          |  |  |                    |                         |          |          |          |          |          |   |  |  |
| 600 V ac   | 480 V ac               |   |   |   |          |  |  |                    |                         |          |          |          |          |          |   |  |  |
| 575 V ac   | 460 V ac               |   |   |   |          |  |  |                    |                         |          |          |          |          |          |   |  |  |
| 550 V ac   | 440 V ac               |   |   |   |          |  |  |                    |                         |          |          |          |          |          |   |  |  |
| <p><b>V150LA10AP</b><br/>LA Varistor</p>    |                        | <p>The V150LA10AP, a transient voltage surge suppressor, is a radial leaded varistors (MOVs) that is designed to be operated continuously across ac power lines. This UL Recognized varistor requires very little mounting space.</p>   |   |   |          |  | <p><b>Any of our products that operate below 150 V ac or 200 V dc.</b></p> |                    |                         |          |          |          |          |          |   |  |  |
| PRODUCT  | MAX. OPERATING VOLTAGE |   | MAX IMPULSE CURRENT 80.20 μs CURRENT WAVE (A) | VARISTOR VOLTAGE AT 1MA DC TEST CURRENT |          | PEAK CLAMPING VOLTAGE WITH 80.20 μs WAVE |  | CAPACITANCE        | DISC DIAMETER SIZE (MM) |          |          |          |          |          |   |  |  |
|  | AC (V)                 | DC (V)  |   | MIN. (V)                                | MAX. (V) | V <sub>c</sub> (V)                       | 1 <sub>pk</sub> (A)  |                    |                         |          |          |          |          |          |   |  |  |
| V150LA10AP   | 150                    | 200   | 4500  | 216                                     | 264      | 395                                      | 50   | 800                | 14                      |          |          |          |          |          |   |  |  |

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