5 x 20mm Fast-acting Glass Tube Fuses
GMA Series

Description
• Fast-acting, low breaking capacity
• Optional axial leads available
• 5 x 20mm physical size
• Glass tube, silver-plated (63mA-315mA) and nickel-plated (500mA-15A) brass endcap construction
• Designed to UL/CSA 248-14

• Ratings above 6.3A have a 0.8mm diameter lead
• With TR2 packaging code, lead wire length is 19.05mm

Agency Information
• UL Listed, Guide JDYX, File E19180, 63mA-6A
• UL Recognized, Guide JDYX2, File E19180, 7-15A
• CSA Certified, Class 1422-01, File 53787, 63mA-6A
• PSE Approval, 1A-15A

Ordering
• Specify packaging, product, and option code

Dimensions - mm

Electrical Characteristics

<table>
<thead>
<tr>
<th>Rated Current</th>
<th>% of Amp Rating</th>
<th>Opening Time</th>
</tr>
</thead>
<tbody>
<tr>
<td>63mA - 15A</td>
<td>100%</td>
<td>None</td>
</tr>
<tr>
<td></td>
<td>135%</td>
<td>60 minutes maximum</td>
</tr>
<tr>
<td></td>
<td>200%</td>
<td>2 minutes maximum</td>
</tr>
</tbody>
</table>

Specifications

<table>
<thead>
<tr>
<th>Product Code</th>
<th>Amp Rating</th>
<th>Voltage Rating Vac</th>
<th>Interrupting Rating (amps)*</th>
<th>Typical DC Cold Resistance (Ω)**</th>
<th>Typical Pre-Arc I²t Vac†</th>
<th>Maximum Voltage Drop (mV)‡</th>
</tr>
</thead>
<tbody>
<tr>
<td>GMA-63-R</td>
<td>63mA</td>
<td>250</td>
<td>35</td>
<td>10,000</td>
<td>15.750</td>
<td>0.00024</td>
</tr>
<tr>
<td>GMA-100-R</td>
<td>100mA</td>
<td>250</td>
<td>35</td>
<td>10,000</td>
<td>7.840</td>
<td>0.0001</td>
</tr>
<tr>
<td>GMA-125-R</td>
<td>125mA</td>
<td>250</td>
<td>35</td>
<td>10,000</td>
<td>4.895</td>
<td>0.0024</td>
</tr>
<tr>
<td>GMA-200-R</td>
<td>200mA</td>
<td>250</td>
<td>35</td>
<td>10,000</td>
<td>2.500</td>
<td>0.001</td>
</tr>
<tr>
<td>GMA-250-R</td>
<td>250mA</td>
<td>250</td>
<td>35</td>
<td>10,000</td>
<td>1.735</td>
<td>0.018</td>
</tr>
<tr>
<td>GMA-300-R</td>
<td>300mA</td>
<td>250</td>
<td>35</td>
<td>10,000</td>
<td>0.906</td>
<td>0.019</td>
</tr>
<tr>
<td>GMA-315-R</td>
<td>315mA</td>
<td>250</td>
<td>35</td>
<td>10,000</td>
<td>0.839</td>
<td>0.019</td>
</tr>
<tr>
<td>GMA-500-R</td>
<td>500mA</td>
<td>250</td>
<td>35</td>
<td>10,000</td>
<td>0.454</td>
<td>0.15</td>
</tr>
<tr>
<td>GMA-600-R</td>
<td>600mA</td>
<td>250</td>
<td>35</td>
<td>10,000</td>
<td>0.256</td>
<td>0.32</td>
</tr>
<tr>
<td>GMA-750-R</td>
<td>750mA</td>
<td>250</td>
<td>35</td>
<td>10,000</td>
<td>0.186</td>
<td>0.47</td>
</tr>
<tr>
<td>GMA-800-R</td>
<td>800mA</td>
<td>250</td>
<td>35</td>
<td>10,000</td>
<td>0.170</td>
<td>0.70</td>
</tr>
<tr>
<td>GMA-1-R</td>
<td>10mA</td>
<td>250</td>
<td>35</td>
<td>10,000</td>
<td>0.163</td>
<td>0.48</td>
</tr>
<tr>
<td>GMA-1.25-R</td>
<td>1.25</td>
<td>250</td>
<td>100</td>
<td>10,000</td>
<td>0.122</td>
<td>0.84</td>
</tr>
<tr>
<td>GMA-1.5-R</td>
<td>1.5</td>
<td>250</td>
<td>100</td>
<td>10,000</td>
<td>0.090</td>
<td>1.6</td>
</tr>
<tr>
<td>GMA-1.6-R</td>
<td>1.6</td>
<td>250</td>
<td>100</td>
<td>10,000</td>
<td>0.080</td>
<td>2.0</td>
</tr>
<tr>
<td>GMA-2-R</td>
<td>2</td>
<td>250</td>
<td>100</td>
<td>10,000</td>
<td>0.068</td>
<td>3.1</td>
</tr>
<tr>
<td>GMA-2.5-R</td>
<td>2.5</td>
<td>250</td>
<td>100</td>
<td>10,000</td>
<td>0.046</td>
<td>4.9</td>
</tr>
<tr>
<td>GMA-3-R</td>
<td>3</td>
<td>250</td>
<td>100</td>
<td>10,000</td>
<td>0.039</td>
<td>8.8</td>
</tr>
<tr>
<td>GMA-3.15-R</td>
<td>3.15</td>
<td>125</td>
<td>-</td>
<td>10,000</td>
<td>0.036</td>
<td>9.7</td>
</tr>
<tr>
<td>GMA-3.5-R</td>
<td>3.5</td>
<td>125</td>
<td>-</td>
<td>10,000</td>
<td>0.030</td>
<td>13</td>
</tr>
<tr>
<td>GMA-4-R</td>
<td>4</td>
<td>125</td>
<td>-</td>
<td>10,000</td>
<td>0.026</td>
<td>19.1</td>
</tr>
<tr>
<td>GMA-5-R</td>
<td>5</td>
<td>125</td>
<td>-</td>
<td>10,000</td>
<td>0.021</td>
<td>29.0</td>
</tr>
<tr>
<td>GMA-6-R</td>
<td>6</td>
<td>125</td>
<td>-</td>
<td>10,000</td>
<td>0.017</td>
<td>45</td>
</tr>
<tr>
<td>GMA-7-R</td>
<td>7</td>
<td>125</td>
<td>-</td>
<td>200</td>
<td>0.012</td>
<td>150</td>
</tr>
<tr>
<td>GMA-8-R</td>
<td>8</td>
<td>125</td>
<td>-</td>
<td>200</td>
<td>0.009</td>
<td>280</td>
</tr>
<tr>
<td>GMA-10-R</td>
<td>10</td>
<td>125</td>
<td>-</td>
<td>200</td>
<td>0.006</td>
<td>280</td>
</tr>
<tr>
<td>GMA-15-R</td>
<td>15</td>
<td>125</td>
<td>-</td>
<td>150</td>
<td>0.004</td>
<td>950</td>
</tr>
</tbody>
</table>

* Interrupting ratings: Interrupting ratings for 63mA - 6A were measured at 70% - 80% power factor on AC. The interrupting ratings for 7A - 15A were measured at 100% power factor on AC.
** DC Cold Resistance (Measured at <10% of rated current)
† Typical Pre-Arching I²t (I²t was measured at listed interrupting rating and rated voltage)
‡ Maximum Voltage drop (Voltage drop was measured at 20°C ambient temperature at rated current)
Packaging Code

<table>
<thead>
<tr>
<th>Packaging Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>BK</td>
<td>100 fuses packed into a cardboard carton</td>
</tr>
<tr>
<td>BK1</td>
<td>1000 fuses packed into a poly bag</td>
</tr>
<tr>
<td>TR2</td>
<td>1500 fuses packed into tape on a reel (19.05mm lead wire length)</td>
</tr>
</tbody>
</table>

Option Code

<table>
<thead>
<tr>
<th>Option Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>V</td>
<td>Axial leads - copper tinned wire with nickel-plated brass overcaps</td>
</tr>
</tbody>
</table>
Click to View Pricing, Inventory, Delivery & Lifecycle Information:

Cooper Bussmann:
- GMA-63-R
- BK1/GMA-2-R
- BK1/GMA-3-R
- BK1/GMA-4-R
- BK1/GMA-5-R
- BK1/GMA-6-R
- BK1/GMA-750-R
- BK1/GMA-7-R
- BK1/GMA-800-R
- BK1/GMA-10-R
- BK1/GMA-125-R
- BK1/GMA-15-R
- BK1/GMA-16-R
- BK1/GMA-1-R
- BK1/GMA-200-R
- BK1/GMA-250-R

Eaton:
- BK/GMA-63MA
- BK/GMA-600MA
- BK/GMA-8A
- BK/GMA-2A
- BK/GMA-V-100MA
- BK/GMA-V-200MA
- BK/GMA-V-750MA
- BK/GMA-V-500MA
- BK/GMA-V-2.5A
- BK/GMA-V-1.6A
- BK/GMA-V-1.5A
- BK/GMA-V-1.35A
- BK/GMA-10A
- BK/GMA-250MA
- BK/GMA-V-600MA
- BK/GMA-V-3A
- BK/GMA-100MA
- BK/GMA-4A
- BK/GMA-7A
- BK/GMA-500-R
- BK/GMA-10-R
- BK/GMA-3.15-R
- BK/GMA-2-R
- BK/GMA-15-R
- BK/GMA-315-R
- BK/GMA-1-6-R
- BK/GMA-1.5-R
- BK/GMA-1.25-R
- BK/GMA-1-R
- BK/GMA-125-R
- BK/GMA-8-R
- BK/GMA-3.5-R
- BK/GMA-250MA
- BK/GMA-800R
- BK/GMA-300-R
- BK/GMA-750-R
- BK/GMA-7-R
- BK/GMA-300MA
- BK/GMA-315MA
- BK/GMA-V-1.25-R
- BK/GMA-V-1.5-R
- BK/GMA-V-1.6-R
- BK/GMA-V-1-R
- BK/GMA-V-2.5-R
- BK/GMA-V-200-R
- BK/GMA-V-250-R
- BK/GMA-V-3.5-R
- BK/GMA-V-3-R
- BK/GMA-V-4-R
- BK/GMA-V-500R
- BK/GMA-V-8-R
- BK/GMA-100MA
- BK/GMA-10-R
- BK/GMA-15A
- GMA-10A
- GMA-10-R
- GMA-125-R
- GMA-15A
- GMA-1-5A
- GMA-1-R
- GMA-200-R
- GMA-250MA
- GMA-250-R
- GMA-2A
- GMA-2-R
- GMA-300MA
- GMA-300-R
- GMA-315-R
- GMA-3-R
- GMA-4A
- GMA-4-R
- GMA-500MA