Amp-Trap® R-Rated DIN style fuses are current-limiting, high interrupting rating fuses, intended for the short circuit protection of medium voltage motors and motor controllers. This product range offers North American R-Rated performance in the IEC 282-1 DIN mounting configuration of 442mm. R-Rated fuses are applied as back up fuses that have a minimum interrupting rating, and must be coordinated with overload relays in combination motor starters. Amp-Trap R-Rated, DIN type fuses are offered in voltage ratings of 3.3kV, 5.3kV and 7.2kV in ratings from 2R to 19R. All fuses within this product group are UL component recognized.

DEFINITIONS:

R-Rating: R-Rated fuses are back-up fuses that operate as follows (Per ANSI C37.46-2000): An R-Rated fuse will melt in the range of 15 to 35 seconds at a value of current equal to 100 times the “R” rating.

Back-up Current-Limiting Fuses: A back-up current-limiting fuse is a fuse that can interrupt any current between its rated minimum interrupting current and its maximum interrupting current. Back-up fuses are not designed or intended to open under overload conditions.

Continuous Ampere Rating at 40°C: The continuous amp rating defines the thermal capability of the fuse per ANSI C37.46 and should not be the sole factor in fuse selection.

Spring-Reinforced Clip: MR45 & Spring Ref.# L096472

Fuse-Holder: SI 24/442 Ref # K209424 In compliance with IEC 282-1, DIN standard 43625. * Note: Ratings above 19R may be achieved by paralleling fuses. Please consult factory for details.
## MOTOR PROTECTION

### Amp-Trap® DIN-Style Fuses

**Medium Voltage Fuses**

### 3.3kV Max. DIN IEC Style 442 mm

<table>
<thead>
<tr>
<th>Fig.</th>
<th>Catalog Number</th>
<th>Size</th>
<th>Continuous Amp Rating 55˚C**</th>
<th>Continuous Amp Rating 40˚C**</th>
<th>Minimum Interrupting Rating</th>
<th>1 Phase Interrupting Rating Maximum Tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>A031D1DSR0-2R</td>
<td>2R</td>
<td>63</td>
<td>70</td>
<td>190</td>
<td>100kA @ 3300V</td>
</tr>
<tr>
<td>A</td>
<td>A031D1DSR0-3R</td>
<td>3R</td>
<td>90</td>
<td>100</td>
<td>225</td>
<td>65kA @ 3300V</td>
</tr>
<tr>
<td>A</td>
<td>A031D1DSR0-4R</td>
<td>4R</td>
<td>115</td>
<td>130</td>
<td>225</td>
<td>65kA @ 3300V</td>
</tr>
<tr>
<td>A</td>
<td>A031D1DSR0-5R</td>
<td>5R</td>
<td>135</td>
<td>150</td>
<td>400</td>
<td>955</td>
</tr>
<tr>
<td>A</td>
<td>A031D1DSR0-6R</td>
<td>6R</td>
<td>150</td>
<td>170</td>
<td>540</td>
<td>1050</td>
</tr>
<tr>
<td>A</td>
<td>A031D1DSR0-9R</td>
<td>9R</td>
<td>180</td>
<td>200</td>
<td>780</td>
<td>1200</td>
</tr>
<tr>
<td>A</td>
<td>A031D1DSR0-12R</td>
<td>12R</td>
<td>210</td>
<td>230</td>
<td>955</td>
<td>1280</td>
</tr>
</tbody>
</table>

### 5.5kV Max. DIN IEC Style 442 mm

<table>
<thead>
<tr>
<th>Fig.</th>
<th>Catalog Number</th>
<th>Size</th>
<th>Continuous Amp Rating 55˚C**</th>
<th>Continuous Amp Rating 40˚C**</th>
<th>Minimum Interrupting Rating</th>
<th>1 Phase Interrupting Rating Maximum Tested</th>
</tr>
</thead>
<tbody>
<tr>
<td>A</td>
<td>A055D1DSR0-2R</td>
<td>2R</td>
<td>63</td>
<td>70</td>
<td>190</td>
<td>100kA @ 5500V</td>
</tr>
<tr>
<td>A</td>
<td>A055D1DSR0-3R</td>
<td>3R</td>
<td>90</td>
<td>100</td>
<td>225</td>
<td>65kA @ 5500V</td>
</tr>
<tr>
<td>A</td>
<td>A055D1DSR0-4R</td>
<td>4R</td>
<td>115</td>
<td>130</td>
<td>225</td>
<td>65kA @ 5500V</td>
</tr>
<tr>
<td>A</td>
<td>A055D1DSR0-5R</td>
<td>5R</td>
<td>135</td>
<td>150</td>
<td>400</td>
<td>955</td>
</tr>
<tr>
<td>A</td>
<td>A055D1DSR0-6R</td>
<td>6R</td>
<td>150</td>
<td>170</td>
<td>540</td>
<td>1050</td>
</tr>
<tr>
<td>A</td>
<td>A055D1DSR0-9R</td>
<td>9R</td>
<td>180</td>
<td>200</td>
<td>780</td>
<td>1200</td>
</tr>
<tr>
<td>A</td>
<td>A055D1DSR0-12R</td>
<td>12R</td>
<td>210</td>
<td>230</td>
<td>955</td>
<td>1280</td>
</tr>
</tbody>
</table>

* 13R, 16R and 19R are not standard ratings defined in ANSI C37.46.

** This rating defines the thermal capability of the fuse per ANSI 37.46 and should not be the sole factor in fuse selection.

---

**Figure A**

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**Diagram:**

- Indicator flush with surface
- Definite fuse opening
- Indicator extends 1.0” (25.4 mm)
- After fuse opens:
  - Indicator exerts 4 5 LB force at end of travel

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**Dimensions:**

- Diameter: 9.5 mm
- Length: 17.40 mm
- Width: 442.0 mm
- Ref. 500.0 mm

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**Figure A**