TeSys® DF IEC-Type Fuseholders

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<td>-----</td>
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<tr>
<td>Conforming to standards</td>
<td>IEC 60947-3, UL 512, CSA 22-2 n° 39</td>
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<td>Degree of protection</td>
<td>Conforming to IEC 60529</td>
</tr>
<tr>
<td>Ambient air temperature</td>
<td></td>
</tr>
<tr>
<td>Storage °C (°F)</td>
<td>-40...+ 80 (-40...+ 176)</td>
</tr>
<tr>
<td>For operation, with derating (1) °C (°F)</td>
<td>- 20...+ 60 (-4...+ 140)</td>
</tr>
<tr>
<td>Flame resistance</td>
<td></td>
</tr>
<tr>
<td>Conforming to IEC 60947-2-1 °C (°F)</td>
<td>960 (1760)</td>
</tr>
<tr>
<td>Pole characteristics</td>
<td></td>
</tr>
<tr>
<td>Fuse size</td>
<td></td>
</tr>
<tr>
<td>mm (inch)</td>
<td>8.5 x 31.5 (0.3 x 1.2)</td>
</tr>
<tr>
<td>Utilization category</td>
<td>AC20B</td>
</tr>
<tr>
<td>Rated insulation voltage (Ui) with tubular links, a.c. supply</td>
<td>V 500 690 690 690 600</td>
</tr>
<tr>
<td>Rated operational Hz</td>
<td>50/60</td>
</tr>
<tr>
<td>Rated impulse withstand voltage (Uimp)</td>
<td>kV 6 6 8 8 6</td>
</tr>
<tr>
<td>Conventional thermal current (Ith) for ambient air temperature ≤ 40 °C (1)</td>
<td></td>
</tr>
<tr>
<td>With tubular links A 25 32 50 125 30</td>
<td></td>
</tr>
<tr>
<td>With aM cartridge fuses A 25 32 50 125 30</td>
<td></td>
</tr>
<tr>
<td>With gG cartridge fuses A 25 32 50 100 30</td>
<td></td>
</tr>
<tr>
<td>Short-circuit characteristics (with tubular links)</td>
<td></td>
</tr>
<tr>
<td>Permissible short-time rating (low) (rms value Cos ϕ = 0.35) Conforming to IEC 60947-3 A 300 385 800 1200 300</td>
<td></td>
</tr>
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<td>Maximum permissible peak value (dynamic stress) Conforming to IEC 60269-1 kA 11 15 19 11</td>
<td></td>
</tr>
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</tr>
<tr>
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<td></td>
</tr>
<tr>
<td>Wire sizes (number of conductors x c.s.a.)</td>
<td></td>
</tr>
<tr>
<td>Solid wire</td>
<td></td>
</tr>
<tr>
<td>mm² (AWG)</td>
<td>1 x 1.5 (1 x 16)</td>
</tr>
<tr>
<td>Flexible wire without cable end</td>
<td></td>
</tr>
<tr>
<td>mm² (AWG)</td>
<td>1 x 1.5 (1 x 16)</td>
</tr>
<tr>
<td>Flexible wire with cable end</td>
<td></td>
</tr>
<tr>
<td>mm² (AWG)</td>
<td>1 x 1.5 (1 x 16)</td>
</tr>
<tr>
<td>Characteristics of early break and signalling contacts DF14AM and DF22AM</td>
<td></td>
</tr>
<tr>
<td>Rated insulation voltage (Ui) a.c. supply</td>
<td>V 250</td>
</tr>
<tr>
<td>Conventional thermal current (Ith) for ambient air temperature ≤ 40 °C (1)</td>
<td></td>
</tr>
<tr>
<td>A 5</td>
<td></td>
</tr>
<tr>
<td>Rated operational current</td>
<td></td>
</tr>
<tr>
<td>Category AC-15 A 24 V 48 V 127 V 240 V</td>
<td></td>
</tr>
<tr>
<td>Category DC-13 A 3 1 0.2 0.1</td>
<td></td>
</tr>
<tr>
<td>Definition of rated characteristics</td>
<td></td>
</tr>
<tr>
<td>Conforming to IEC 60947-5-1 B300</td>
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<tr>
<td>Low load operating characteristics</td>
<td></td>
</tr>
<tr>
<td>Minimum voltage V 10</td>
<td></td>
</tr>
<tr>
<td>Minimum current mA 30</td>
<td></td>
</tr>
<tr>
<td>Cabling</td>
<td></td>
</tr>
<tr>
<td>Faston connectors</td>
<td></td>
</tr>
</tbody>
</table>

(1) For use in an installation with ambient temp. > 20 °C (68 °F), apply a derating coefficient:

<table>
<thead>
<tr>
<th>Max. temperature °C (°F)</th>
<th>20 (68)</th>
<th>30 (86)</th>
<th>40 (104)</th>
<th>50 (122)</th>
<th>60 (140)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Max. relative humidity %</td>
<td>95</td>
<td>90</td>
<td>80</td>
<td>50</td>
<td>50</td>
</tr>
<tr>
<td>Current derating coefficient</td>
<td>1</td>
<td>0.95</td>
<td>0.9</td>
<td>0.8</td>
<td>0.7</td>
</tr>
</tbody>
</table>
# TeSys® DF IEC-Type Fuseholders

## Fuseholders

<table>
<thead>
<tr>
<th>Catalog numbers</th>
<th><strong>Conventional thermal current (A)</strong></th>
<th><strong>Size of cartridge fuse or link (mm)</strong></th>
<th><strong>Composition</strong></th>
<th><strong>Weight (kg)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DF101</strong></td>
<td>25</td>
<td>8.5 x 31.5 (0.3 x 1.2)</td>
<td>1 P</td>
<td>0.061 (2.15)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N</td>
<td>0.077 (2.50)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 P + N (2)</td>
<td>0.132 (4.66)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2 P</td>
<td>0.122 (4.30)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 P</td>
<td>0.183 (6.46)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 P + N (2)</td>
<td>0.253 (8.96)</td>
</tr>
<tr>
<td><strong>DF103N</strong></td>
<td>32</td>
<td>10 x 38 (0.4 x 1.5)</td>
<td>1 P</td>
<td>0.061 (2.15)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N</td>
<td>0.077 (2.50)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 P + N (2)</td>
<td>0.132 (4.66)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2 P</td>
<td>0.122 (4.30)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 P</td>
<td>0.183 (6.46)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 P + N (2)</td>
<td>0.253 (8.96)</td>
</tr>
<tr>
<td><strong>DF143NC</strong></td>
<td>50</td>
<td>14 x 51 (0.6 x 2.0)</td>
<td>1 P</td>
<td>0.140 (4.94)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N</td>
<td>0.150 (5.29)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 P + N (2)</td>
<td>0.290 (10.23)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2 P</td>
<td>0.280 (9.88)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 P + N (2)</td>
<td>0.420 (14.82)</td>
</tr>
<tr>
<td><strong>DF223NC</strong></td>
<td>125</td>
<td>22 x 58 (0.9 x 2.3)</td>
<td>1 P</td>
<td>0.218 (7.69)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N</td>
<td>0.238 (8.40)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 P + N (2)</td>
<td>0.456 (16.09)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2 P</td>
<td>0.436 (15.38)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 P + N (2)</td>
<td>0.654 (23.07)</td>
</tr>
<tr>
<td><strong>DF223NVC</strong></td>
<td></td>
<td></td>
<td>1 P</td>
<td>0.570 (20.11)</td>
</tr>
</tbody>
</table>

## Fuseholders with “blown fuse” indicators (neon)

<table>
<thead>
<tr>
<th>Catalog numbers</th>
<th><strong>Conventional thermal current (A)</strong></th>
<th><strong>Size of cartridge fuse or link (mm)</strong></th>
<th><strong>Composition</strong></th>
<th><strong>Weight (kg)</strong></th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>DF101</strong></td>
<td>25</td>
<td>8.5 x 31.5 (0.3 x 1.2)</td>
<td>1 P</td>
<td>0.064 (2.26)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>N</td>
<td>0.135 (4.76)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 P + N (2)</td>
<td>0.125 (4.41)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2 P</td>
<td>0.186 (6.56)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 P + N (2)</td>
<td>0.257 (9.07)</td>
</tr>
<tr>
<td><strong>DF103V</strong></td>
<td>32</td>
<td>10 x 38 (0.4 x 1.5)</td>
<td>1 P</td>
<td>0.064 (2.26)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 P + N (2)</td>
<td>0.135 (4.76)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2 P</td>
<td>0.125 (4.41)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 P + N (2)</td>
<td>0.257 (9.07)</td>
</tr>
<tr>
<td><strong>DF143VC</strong></td>
<td>50</td>
<td>14 x 51 (0.6 x 2.0)</td>
<td>1 P</td>
<td>0.143 (5.04)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 P + N (2)</td>
<td>0.293 (10.34)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2 P</td>
<td>0.283 (9.88)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 P + N (2)</td>
<td>0.423 (14.92)</td>
</tr>
<tr>
<td><strong>DF223VC</strong></td>
<td>125</td>
<td>22 x 58 (0.9 x 2.3)</td>
<td>1 P</td>
<td>0.221 (7.80)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>1 P + N (2)</td>
<td>0.459 (16.19)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>2 P</td>
<td>0.439 (15.49)</td>
</tr>
<tr>
<td></td>
<td></td>
<td></td>
<td>3 P + N (2)</td>
<td>0.657 (23.18)</td>
</tr>
</tbody>
</table>

1. Each pole can be marked. A clip-in maker holder is provided for this purpose. Clip-in markers type AB1, AB1 R, or AB1 G can also be used.
2. N: neutral pole fitted with a locked tubular link as standard.
3. A letter “C” in the catalog number indicates that the fuseholder can be fitted with auxiliary early break, “blown fuse” signalling and “fuse present” signalling contacts.
4. Operational voltage of the blown fuse indicator: 110 V...690 V.
TeSys® DF IEC-Type Fuseholders

Fuseholders (1)

<table>
<thead>
<tr>
<th>Conventional thermal current (Ith)</th>
<th>Size of cartridge fuse or link</th>
<th>Composition</th>
<th>P = Poles</th>
<th>Sold in lots of Catalog numbers</th>
<th>Weight A kg (oz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 Class CC 1 P</td>
<td>12 DFCC1</td>
<td>Poles</td>
<td>1</td>
<td>12 DFCC1</td>
<td>0.061 (2.15)</td>
</tr>
<tr>
<td></td>
<td>6 DFCC2</td>
<td>Poles</td>
<td>2</td>
<td>6 DFCC2</td>
<td>0.122 (4.30)</td>
</tr>
<tr>
<td></td>
<td>4 DFCC3</td>
<td>Poles</td>
<td>3</td>
<td>4 DFCC3</td>
<td>0.183 (6.46)</td>
</tr>
</tbody>
</table>

Fuseholders with “blown fuse” indicators (neon) (1)

<table>
<thead>
<tr>
<th>Conventional thermal current (Ith)</th>
<th>Size of cartridge fuse or link</th>
<th>Composition</th>
<th>P = Poles</th>
<th>Sold in lots of Catalog numbers</th>
<th>Weight A kg (oz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>30 Class CC 1 P</td>
<td>12 DFCC1V</td>
<td>Poles</td>
<td>1</td>
<td>12 DFCC1V</td>
<td>0.064 (2.26)</td>
</tr>
<tr>
<td></td>
<td>6 DFCC2V</td>
<td>Poles</td>
<td>2</td>
<td>6 DFCC2V</td>
<td>0.125 (4.41)</td>
</tr>
<tr>
<td></td>
<td>4 DFCC3V</td>
<td>Poles</td>
<td>3</td>
<td>4 DFCC3V</td>
<td>0.186 (6.56)</td>
</tr>
</tbody>
</table>

Accessories

Auxiliary early break and “blown fuse” signalling contacts (2)

<table>
<thead>
<tr>
<th>Size of cartridge fuse or link mm (inch)</th>
<th>Number of contacts</th>
<th>Sold in lots of Catalog numbers</th>
<th>Weight A kg (oz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>14 x 51 (0.6 x 20)</td>
<td>1</td>
<td>1 DF14AM1</td>
<td>0.025 (0.88)</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>1 DF14AM2</td>
<td>0.029 (1.02)</td>
</tr>
<tr>
<td>22 x 58 (0.9 x 2.3)</td>
<td>1</td>
<td>1 DF22AM1</td>
<td>0.032 (1.13)</td>
</tr>
<tr>
<td>2</td>
<td>1</td>
<td>1 DF22AM2</td>
<td>0.035 (1.23)</td>
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</tbody>
</table>

Fuseholder assembly kits (3)

<table>
<thead>
<tr>
<th>Fuseholders to be assembled</th>
<th>Size of cartridge fuse or link mm (inch)</th>
<th>Composition</th>
<th>Sold in lots of Catalog numbers</th>
<th>Weight A kg (oz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF8</td>
<td>8.5 x 31.5 (0.3 x 1.2)</td>
<td>12 pins, 24 clips</td>
<td>12 DF10AP</td>
<td>0.007 (0.25)</td>
</tr>
<tr>
<td>DF10</td>
<td>10 x 38 (0.4 x 1.5)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>DF14</td>
<td>14 x 51 (0.6 x 2.0)</td>
<td>10 pins, 30 clips</td>
<td>10 DF14AP</td>
<td>0.028 (0.88)</td>
</tr>
<tr>
<td>DF22</td>
<td>22 x 58 (0.9 x 2.3)</td>
<td>10 pins, 30 clips</td>
<td>10 DF22AP</td>
<td>0.028 (0.99)</td>
</tr>
</tbody>
</table>

Marking accessories

<table>
<thead>
<tr>
<th>Description</th>
<th>Composition</th>
<th>Marking</th>
<th>Sold in lots of Catalog numbers</th>
<th>Weight A kg (oz)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Clip-in markers</td>
<td>Strip of 10 identical numbers or letters</td>
<td>0...9 25 AB1R (4)</td>
<td>0.002 (0.07)</td>
<td></td>
</tr>
<tr>
<td></td>
<td></td>
<td>A...Z 25 AB1G (4)</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

(1) Each pole can be marked. A clip-in marker holder is provided for this purpose. A clip-in markers type AB1R or AB1G can also be used.

(2) These auxiliary contacts provide the following functions: early break, "blown fuse" signalling (if the Fuseholder is fitted with striker fuses) and "fuse present" signalling.

(3) 1 pin and 2 clips are required to assemble two DF8 or DF10 fuseholders together. 1 pin and 3 clips are required to assemble two DF14 or DF22 fuseholders together.

(4) When ordering, replace the ■ in the catalog number with the number or letter required. Example: AB1R-1 or AB1G-A.

Note: DF10 and DFCC fuseholders have been subjected to a current withstand of Ip = 9 kA and 12T = 38 kA2s at 800 V ac maximum, 200 kA. DF14 fuseholders have been subjected to a current withstand of Ip = 24.2 kA and 12T = 130 kA2s at 750 V ac maximum, 200 kA. DF22 fuseholders have been subjected to a current withstand of Ip = 20.4 kA and 12T = 141 kA2s at 750 V ac maximum, 200 kA. DF10, DF14, and DF22 devices accept fuses which provide supplementary protection and have not been evaluated by UL for use where branch circuit protection is needed.

Note: DF10 and DFCC fuseholders have been subjected to a current withstand of Ip = 9 kA and 12T = 38 kA2s at 800 V ac maximum, 200 kA. DF14 fuseholders have been subjected to a current withstand of Ip = 24.2 kA and 12T = 130 kA2s at 750 V ac maximum, 200 kA. DF22 fuseholders have been subjected to a current withstand of Ip = 20.4 kA and 12T = 141 kA2s at 750 V ac maximum, 200 kA. DF10, DF14, and DF22 devices accept fuses which provide supplementary protection and have not been evaluated by UL for use where branch circuit protection is needed.

Note: DF10 and DFCC fuseholders have been subjected to a current withstand of Ip = 9 kA and 12T = 38 kA2s at 800 V ac maximum, 200 kA. DF14 fuseholders have been subjected to a current withstand of Ip = 24.2 kA and 12T = 130 kA2s at 750 V ac maximum, 200 kA. DF22 fuseholders have been subjected to a current withstand of Ip = 20.4 kA and 12T = 141 kA2s at 750 V ac maximum, 200 kA. DF10, DF14, and DF22 devices accept fuses which provide supplementary protection and have not been evaluated by UL for use where branch circuit protection is needed.
## Dimensions: mm (inch)

### Modular fuseholders 25 A and 32 A
Mounting on 35 mm Lrail

<table>
<thead>
<tr>
<th>Fuseholder</th>
<th>Dimensions</th>
</tr>
</thead>
<tbody>
<tr>
<td>DF81 and DF81V</td>
<td>58 (2.28) x 47 (1.85)</td>
</tr>
<tr>
<td>DF101 and DF101V</td>
<td>58 (2.28) x 47 (1.85)</td>
</tr>
<tr>
<td>DF10N and DF10N</td>
<td>58 (2.28) x 47 (1.85)</td>
</tr>
<tr>
<td>DFCC1 and DFCC1V</td>
<td>58 (2.28) x 47 (1.85)</td>
</tr>
<tr>
<td>DF81N and DF81NV</td>
<td>58 (2.28) x 47 (1.85)</td>
</tr>
<tr>
<td>DF103 and DF103V</td>
<td>58 (2.28) x 47 (1.85)</td>
</tr>
<tr>
<td>DF83 and DF83V</td>
<td>58 (2.28) x 47 (1.85)</td>
</tr>
<tr>
<td>DF103N and DF103NV</td>
<td>58 (2.28) x 47 (1.85)</td>
</tr>
<tr>
<td>DF82 and DF82V</td>
<td>58 (2.28) x 47 (1.85)</td>
</tr>
<tr>
<td>DF101N and DF101NV</td>
<td>58 (2.28) x 47 (1.85)</td>
</tr>
<tr>
<td>DF102 and DF102V</td>
<td>58 (2.28) x 47 (1.85)</td>
</tr>
<tr>
<td>DFCC2 and DFCC2V</td>
<td>58 (2.28) x 47 (1.85)</td>
</tr>
</tbody>
</table>

### Modular fuseholders 50 A
Mounting on 35 mm Lrail

<table>
<thead>
<tr>
<th>Fuseholder</th>
<th>Dimensions</th>
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<td>DF143C and DF143VC</td>
<td>70 (2.76) x 50.5 (1.99)</td>
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<tr>
<td>DF143NC and DF143NVC</td>
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### Modular fuseholders 125 A
Mounting on 35 mm Lrail

<table>
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<th>Fuseholder</th>
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<td>DF22N</td>
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<tr>
<td>DF221N and DF221NV</td>
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<td>DF222 and DF222V</td>
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## Wiring diagrams

### Modular fuseholders

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<th>DF# 1P</th>
<th>DF# N</th>
<th>DF# 1P + N</th>
<th>DF# 2P</th>
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<tbody>
<tr>
<td>![Diagram](DF# 1P.png)</td>
<td>![Diagram](DF# N.png)</td>
<td>![Diagram](DF# 1P + N.png)</td>
<td>![Diagram](DF# 2P.png)</td>
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<table>
<thead>
<tr>
<th>DF# 3P</th>
<th>DF# 3P + N</th>
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<td>![Diagram](DF# 3P.png)</td>
<td>![Diagram](DF# 3P + N.png)</td>
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</tbody>
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**Dimensions, Wiring diagrams**

TeSys® DF IEC-Type Fuseholders

Fuseholders

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Courtesy of Steven Engineering, Inc.-230 Ryan Way, South San Francisco, CA 94080-6370-Main Office: (650) 588-9200-Outside Local Area: (800) 258-9200-www.stevenengineering.com
<table>
<thead>
<tr>
<th>Cartridge fuses without striker, Type aM</th>
<th>Cylindrical 8.5 x 31.5 (0.3 x 1.2)</th>
<th>Cylindrical 10 x 38 (0.4 x 1.5)</th>
<th>Cylindrical 14 x 51 (0.6 x 2.0)</th>
<th>Cylindrical 22 x 58 (0.9 x 2.3)</th>
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<tbody>
<tr>
<td>mm (inch)</td>
<td>Vac</td>
<td>A</td>
<td>g (oz)</td>
<td>Catalog numbers</td>
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## Cartridge fuses with striker, Type aM

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<th>Rating</th>
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<th>Weight (g)</th>
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</table>
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