

# POWR-GARD® Fuse

## L15S SERIES TRADITIONAL HIGH-SPEED

150 V ac • Very Fast-Acting • 1–1000 A



### Description

The L15S series is a traditional North American Bolted style high-speed fuse for protection of power semiconductor devices that are rated up to 150 V ac and up to 150 V dc. Littelfuse POWR-SPEED® products offer optimized circuit protection at the extremely fast speed required to protect power semiconductor devices such as silicon controlled rectifiers (SCR's), diodes, thyristors, triacs, transistors, and similar solid-state devices. These devices are used in power equipment including variable speed drives, power rectifiers, UPS systems, dc power supplies, and in a wide range of electronic equipment. May be used wherever extremely fast-acting, current-limiting fuses with no time delay are required.

### Features/Benefits

- Compliance with US and Canadian Requirements
- Traditional North American Bolted Style dimensions
- Class aR performance
- Direct bus-bar mount or stud mount design
- RoHS Compliant

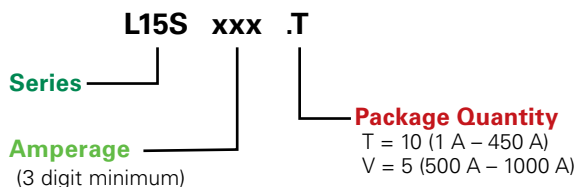
### Applications

- Power Converters (Inverters, Rectifiers, UPS)
- Power Supplies
- Industrial Heaters
- Variable Speed Drives
- Battery Chargers
- Soft Starters

### Specifications

|                              |                                                                |
|------------------------------|----------------------------------------------------------------|
| <b>Voltage Ratings</b>       | Ac: 150 V<br>Dc: 100 V – 150 V                                 |
| <b>Ampere Range</b>          | 1 – 1000 A                                                     |
| <b>Interrupting Rating</b>   | Ac: 100 kA<br>Dc: 20 kA Self Certified                         |
| <b>Approvals</b>             | UL Recognized (File: E71611)<br>CSA Recognized (File: LR29862) |
| <b>Time Constant</b>         | 10 ms                                                          |
| <b>Material</b>              | Body: Melamine<br>Cap: Copper Alloy (Silver Plated)            |
| <b>Environmental</b>         | RoHS                                                           |
| <b>Country of Origin</b>     | Mexico                                                         |
| <b>Operating Temperature</b> | -55 °C to +125 °C                                              |
| <b>Storage Temperature</b>   | Up to 35 °C with Relative Humidity <65 %                       |

### Part Numbering System



| SERIES | AMPERAGE | CATALOG NUMBER | ORDERING NUMBER |
|--------|----------|----------------|-----------------|
| L15S   | 005      | L15S005        | L15S005.T       |
| L15S   | 500      | L15S500        | L15S500.V       |
| L15S   | 1000     | L15S1000       | L15S1000V       |

### Recommended Fuse Holders

1LFS101/1LFS102  
LSCR001/LSCR002

### Web Resources

For additional information, visit: [littelfuse.com/high-speed](http://littelfuse.com/high-speed)

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### Electrical Specifications

| CATALOG NUMBER | AMPERAGE RATING | VOLTAGE RATING |     | INTERRUPT RATING |       |
|----------------|-----------------|----------------|-----|------------------|-------|
|                |                 | AC             | DC  | AC               | DC    |
| L15S001        | 1               | 150            | 150 | 100 kA           | 20 kA |
| L15S002        | 2               | 150            | 150 | 100 kA           | 20 kA |
| L15S003        | 3               | 150            | 150 | 100 kA           | 20 kA |
| L15S004        | 4               | 150            | 150 | 100 kA           | 20 kA |
| L15S005        | 5               | 150            | 150 | 100 kA           | 20 kA |
| L15S006        | 6               | 150            | 150 | 100 kA           | 20 kA |
| L15S007        | 7               | 150            | 150 | 100 kA           | 20 kA |
| L15S008        | 8               | 150            | 150 | 100 kA           | 20 kA |
| L15S009        | 9               | 150            | 150 | 100 kA           | 20 kA |
| L15S010        | 10              | 150            | 150 | 100 kA           | 20 kA |
| L15S012        | 12              | 150            | 150 | 100 kA           | 20 kA |
| L15S015        | 15              | 150            | 150 | 100 kA           | 20 kA |
| L15S020        | 20              | 150            | 150 | 100 kA           | 20 kA |
| L15S025        | 25              | 150            | 150 | 100 kA           | 20 kA |
| L15S035        | 35              | 150            | 150 | 100 kA           | 20 kA |
| L15S040        | 40              | 150            | 150 | 100 kA           | 20 kA |
| L15S045        | 45              | 150            | 150 | 100 kA           | 20 kA |
| L15S050        | 50              | 150            | 150 | 100 kA           | 20 kA |
| L15S060        | 60              | 150            | 150 | 100 kA           | 20 kA |
| L15S070        | 70              | 150            | 100 | 100 kA           | 20 kA |
| L15S080        | 80              | 150            | 100 | 100 kA           | 20 kA |
| L15S090        | 90              | 150            | 100 | 100 kA           | 20 kA |
| L15S100        | 100             | 150            | 100 | 100 kA           | 20 kA |
| L15S125        | 125             | 150            | 100 | 100 kA           | 20 kA |
| L15S150        | 150             | 150            | 100 | 100 kA           | 20 kA |
| L15S200        | 200             | 150            | 100 | 100 kA           | 20 kA |
| L15S250        | 250             | 150            | 100 | 100 kA           | 20 kA |
| L15S300        | 300             | 150            | 100 | 100 kA           | 20 kA |
| L15S350        | 350             | 150            | 100 | 100 kA           | 20 kA |
| L15S400        | 400             | 150            | 100 | 100 kA           | 20 kA |
| L15S450        | 450             | 150            | 100 | 100 kA           | 20 kA |
| L15S500        | 500             | 150            | 100 | 100 kA           | 20 kA |
| L15S600        | 600             | 150            | 100 | 100 kA           | 20 kA |
| L15S800        | 800             | 150            | 100 | 100 kA           | 20 kA |
| L15S1000       | 1000            | 150            | 100 | 100 kA           | 20 kA |

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### Ordering Information

| SERIES | AMPERAGE | AMPERE CODE | CATALOG NUMBER | ORDERING NUMBER | PACK QUANTITY | UPC         |
|--------|----------|-------------|----------------|-----------------|---------------|-------------|
| L15S   | 1        | 001.        | L15S001        | L15S001.T       | 10 Pcs/Box    | 07945800218 |
| L15S   | 2        | 002.        | L15S002        | L15S002.T       | 10 Pcs/Box    | 07945800219 |
| L15S   | 3        | 003.        | L15S003        | L15S003.T       | 10 Pcs/Box    | 07945800220 |
| L15S   | 4        | 004.        | L15S004        | L15S004.T       | 10 Pcs/Box    | 07945800221 |
| L15S   | 5        | 005.        | L15S005        | L15S005.T       | 10 Pcs/Box    | 07945800222 |
| L15S   | 6        | 006.        | L15S006        | L15S006.T       | 10 Pcs/Box    | 07945800223 |
| L15S   | 7        | 007.        | L15S007        | L15S007.T       | 10 Pcs/Box    | 07945800224 |
| L15S   | 8        | 008.        | L15S008        | L15S008.T       | 10 Pcs/Box    | 07945800225 |
| L15S   | 9        | 009.        | L15S009        | L15S009.T       | 10 Pcs/Box    | 07945800226 |
| L15S   | 10       | 010.        | L15S010        | L15S010.T       | 10 Pcs/Box    | 07945800227 |
| L15S   | 12       | 012.        | L15S012        | L15S012.T       | 10 Pcs/Box    | 07945800228 |
| L15S   | 15       | 015.        | L15S015        | L15S015.T       | 10 Pcs/Box    | 07945800229 |
| L15S   | 20       | 020.        | L15S020        | L15S020.T       | 10 Pcs/Box    | 07945800230 |
| L15S   | 25       | 025.        | L15S025        | L15S025.T       | 10 Pcs/Box    | 07945800231 |
| L15S   | 30       | 030.        | L15S030        | L15S030.T       | 10 Pcs/Box    | 07945800232 |
| L15S   | 35       | 035.        | L15S035        | L15S035.T       | 10 Pcs/Box    | 07945800233 |
| L15S   | 40       | 040.        | L15S040        | L15S040.T       | 10 Pcs/Box    | 07945800234 |
| L15S   | 45       | 045.        | L15S045        | L15S045.T       | 10 Pcs/Box    | 07945800235 |
| L15S   | 50       | 050.        | L15S050        | L15S050.T       | 10 Pcs/Box    | 07945800236 |
| L15S   | 60       | 060.        | L15S060        | L15S060.T       | 10 Pcs/Box    | 07945800237 |
| L15S   | 70       | 070.        | L15S070        | L15S070.T       | 10 Pcs/Box    | 07945800238 |
| L15S   | 80       | 080.        | L15S080        | L15S080.T       | 10 Pcs/Box    | 07945800239 |
| L15S   | 90       | 090.        | L15S090        | L15S090.T       | 10 Pcs/Box    | 07945800240 |
| L15S   | 100      | 100.        | L15S100        | L15S100.T       | 10 Pcs/Box    | 07945800241 |
| L15S   | 125      | 125.        | L15S125        | L15S125.T       | 10 Pcs/Box    | 07945800242 |
| L15S   | 150      | 150.        | L15S150        | L15S150.T       | 10 Pcs/Box    | 07945800243 |
| L15S   | 200      | 200.        | L15S200        | L15S200.T       | 10 Pcs/Box    | 07945800244 |
| L15S   | 250      | 250.        | L15S250        | L15S250.T       | 10 Pcs/Box    | 07945800245 |
| L15S   | 300      | 300.        | L15S300        | L15S300.T       | 10 Pcs/Box    | 07945800246 |
| L15S   | 350      | 350.        | L15S350        | L15S350.T       | 10 Pcs/Box    | 07945800247 |
| L15S   | 400      | 400.        | L15S400        | L15S400.T       | 10 Pcs/Box    | 07945800248 |
| L15S   | 450      | 450.        | L15S450        | L15S450.T       | 10 Pcs/Box    | 07945800249 |
| L15S   | 500      | 500.        | L15S500        | L15S500.V       | 5 Pcs/Box     | 07945800250 |
| L15S   | 600      | 600.        | L15S600        | L15S600.V       | 5 Pcs/Box     | 07945800251 |
| L15S   | 800      | 800.        | L15S800        | L15S800.V       | 5 Pcs/Box     | 07945800252 |
| L15S   | 1000     | 1000        | L15S1000       | L15S1000V       | 5 Pcs/Box     | 07945800253 |

Dimensions

| AMPERE RATING | FIG. NO. | DIMENSIONS INCHES (MM) |           |           |           |           |          |           |         |
|---------------|----------|------------------------|-----------|-----------|-----------|-----------|----------|-----------|---------|
|               |          | A                      | B         | C         | D         | E         | F        | G         | H       |
| 1 – 30        | 1        | 1½ (38.1)              | —         | ¾ (9.5)   | 1⅜ (10.3) | —         | —        | —         | —       |
| 31 – 60       | 1        | 2 (50.8)               | —         | ⅝ (15.9)  | 1⅜ (20.6) | —         | —        | —         | —       |
| 61 – 450      | 2        | 1⅝ (29.4)              | 1⅞ (47.6) | 2⅜ (55.6) | 2⅛ (67.5) | 1 (25.4)  | ⅜ (17.1) | ⅝ (7.9)   | ⅜ (4.8) |
| 451 – 1000    | 2        | 1¼ (31.8)              | 1⅝ (49.2) | 2⅞ (65.1) | 3½ (88.9) | 1½ (38.1) | 1 (25.4) | 1⅜ (10.3) | ¼ (6.4) |

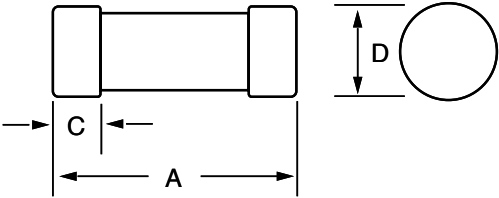


Figure 1

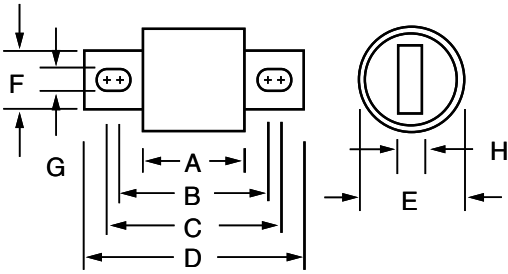


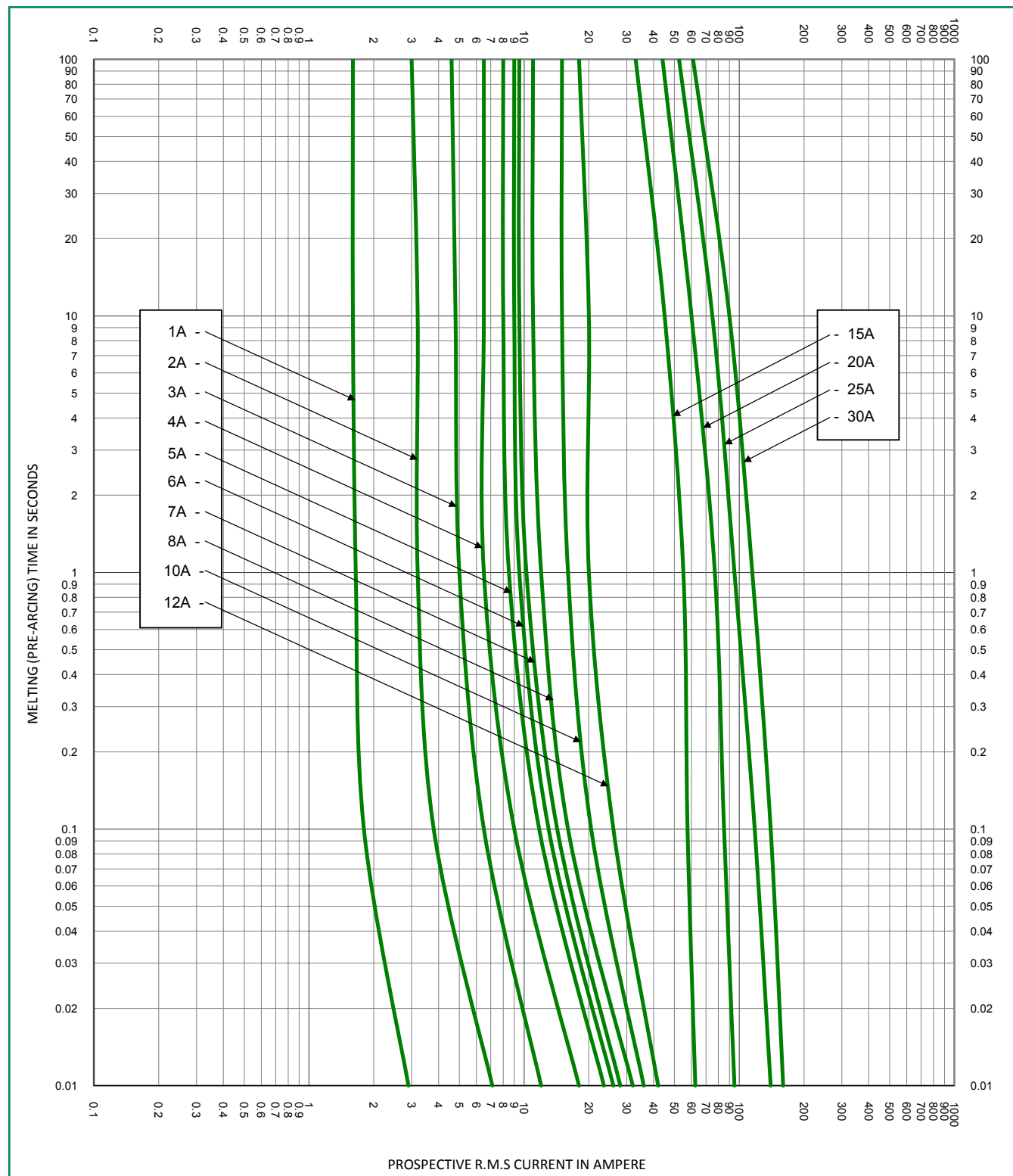
Figure 2

Note: High-Speed fuses are designed for fixed installations. They are not intended for use in moving vehicle applications.

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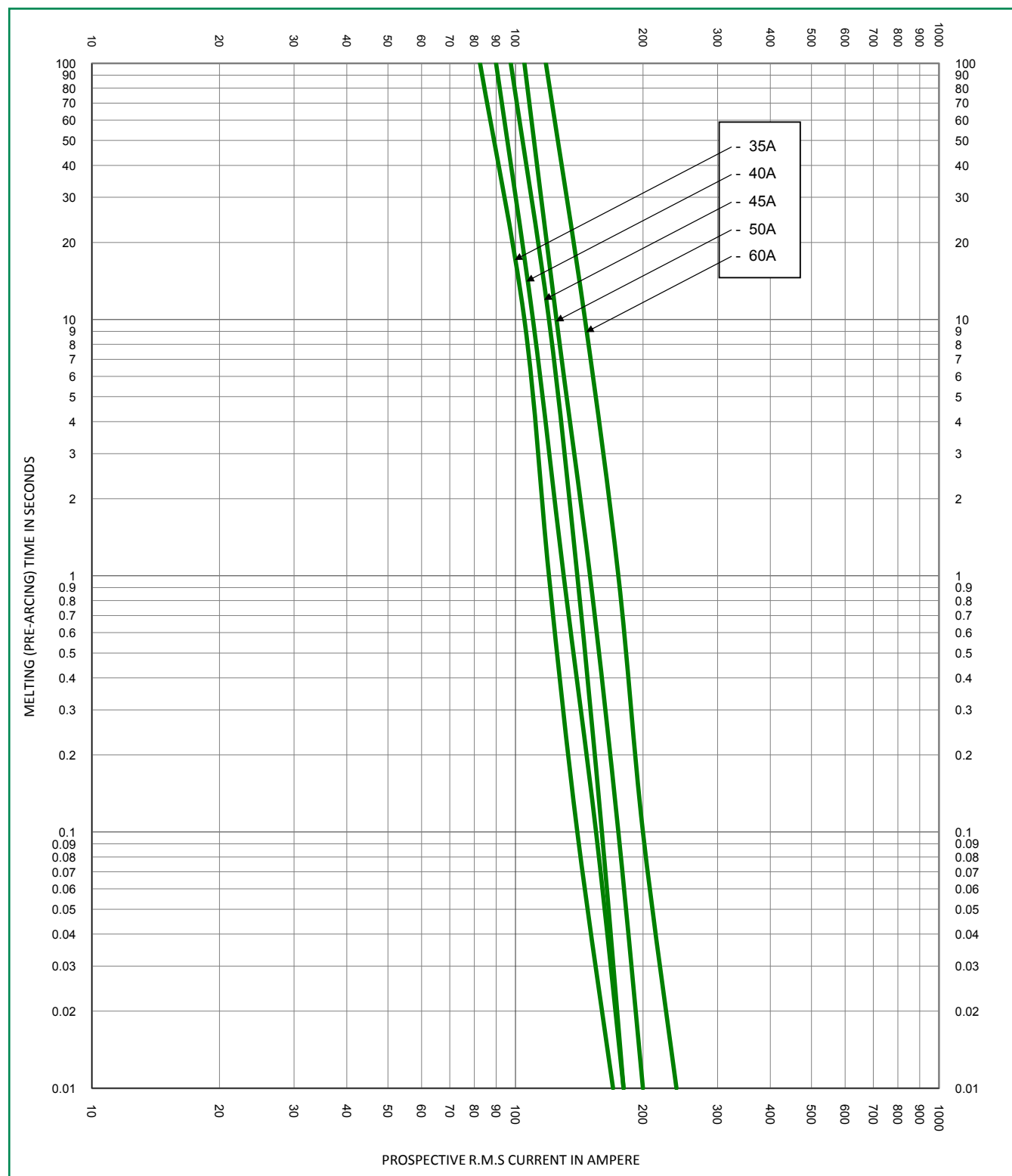
### Time Current Curve



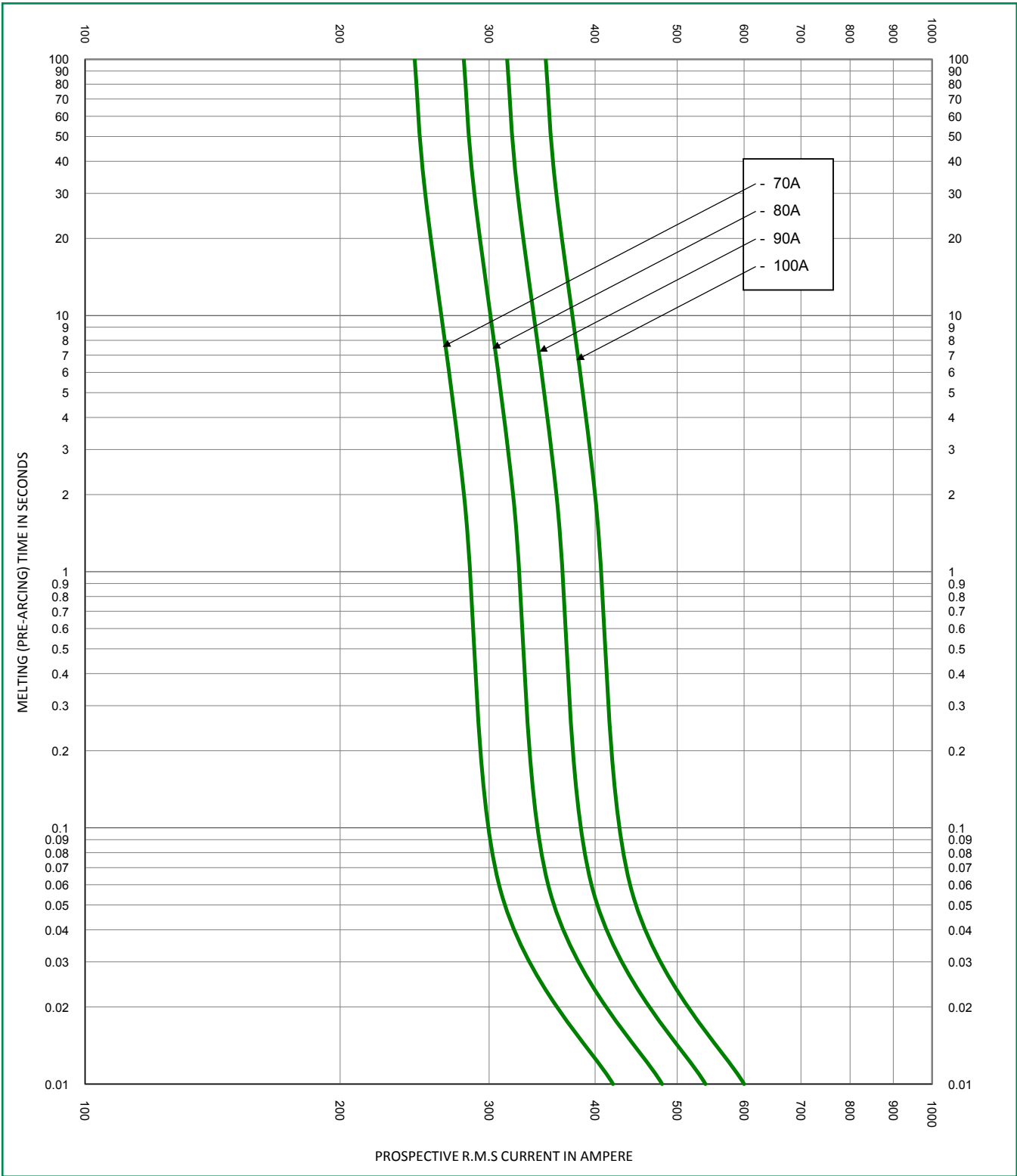
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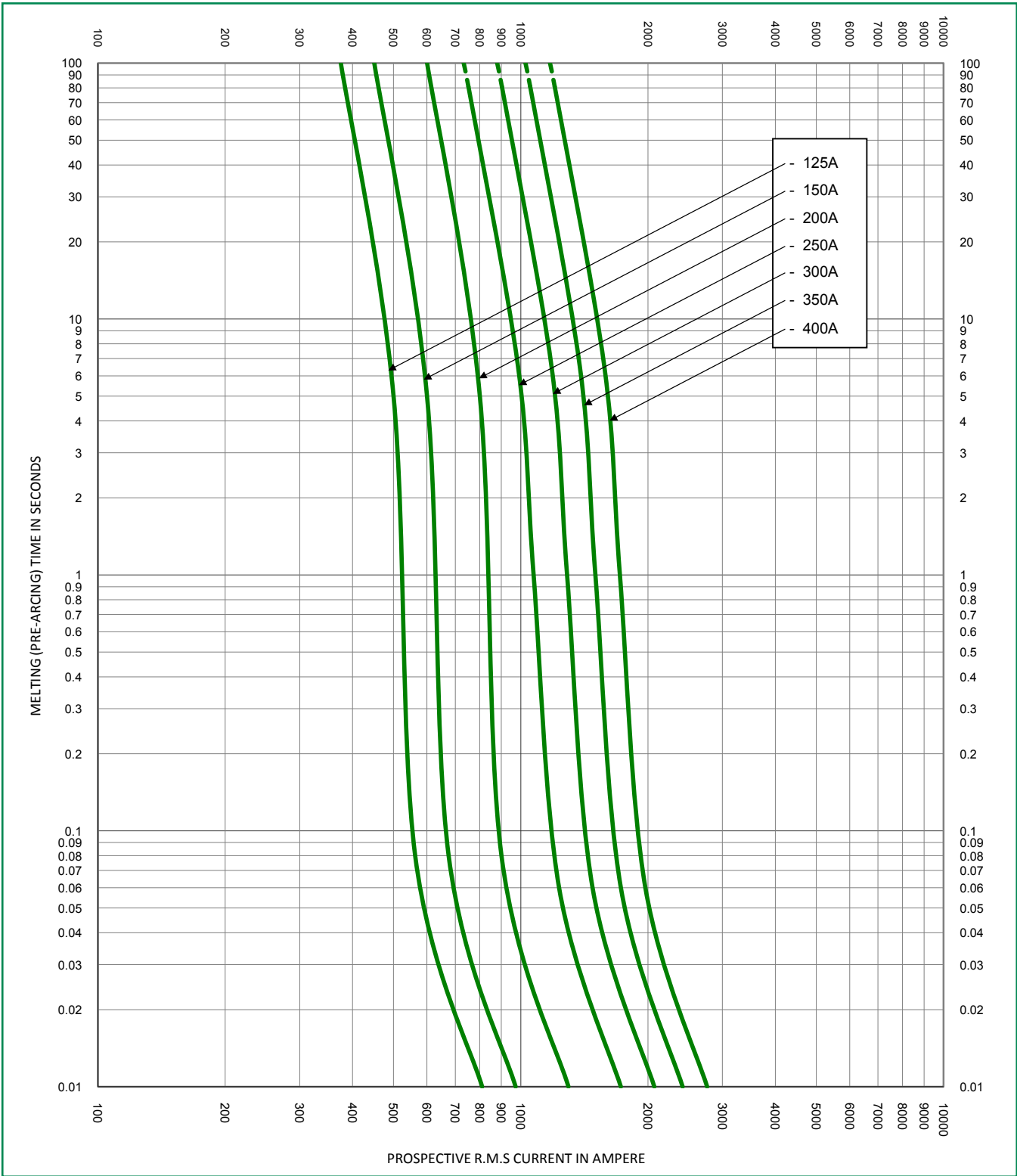
### Time Current Curve



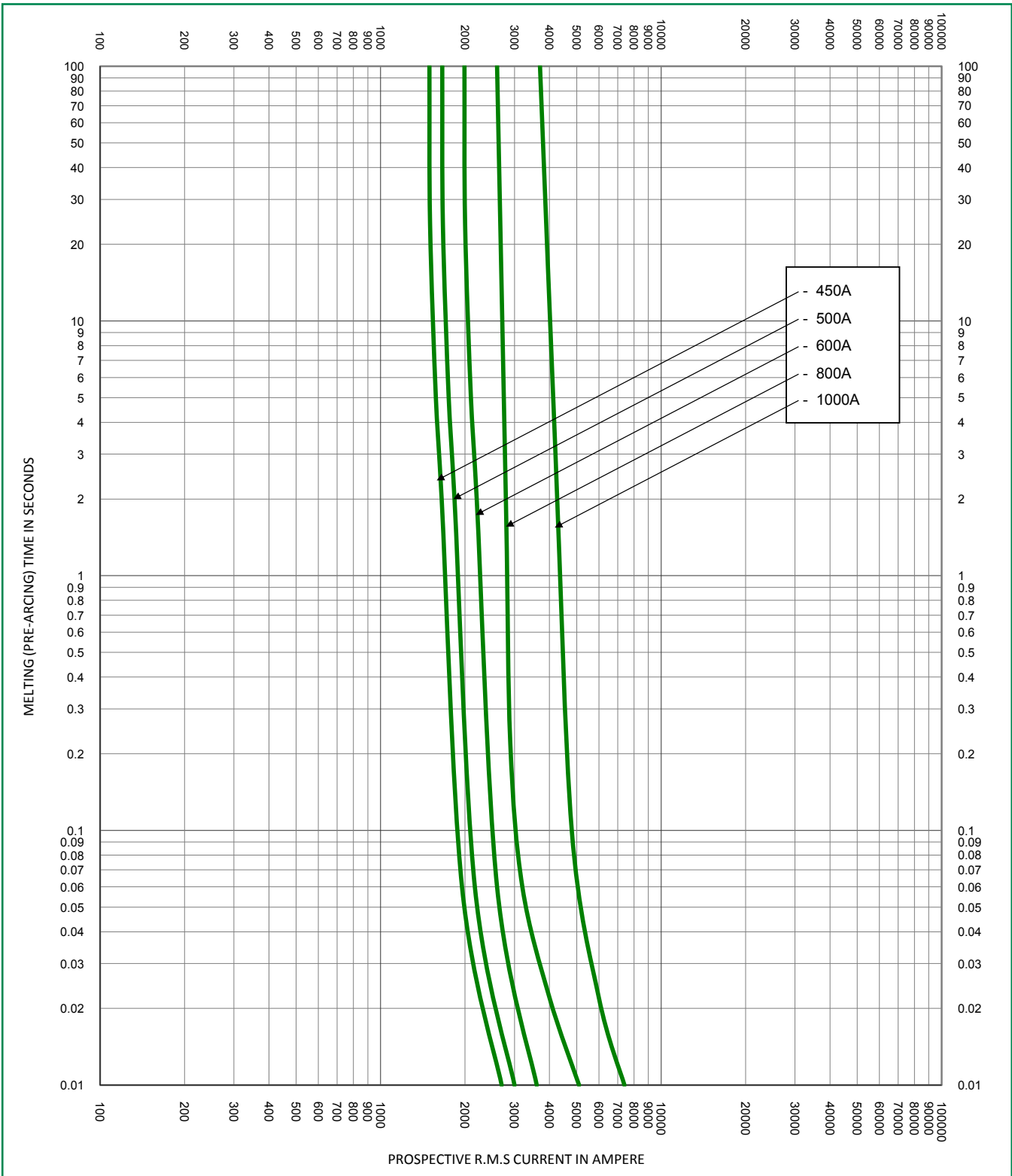
Time Current Curve



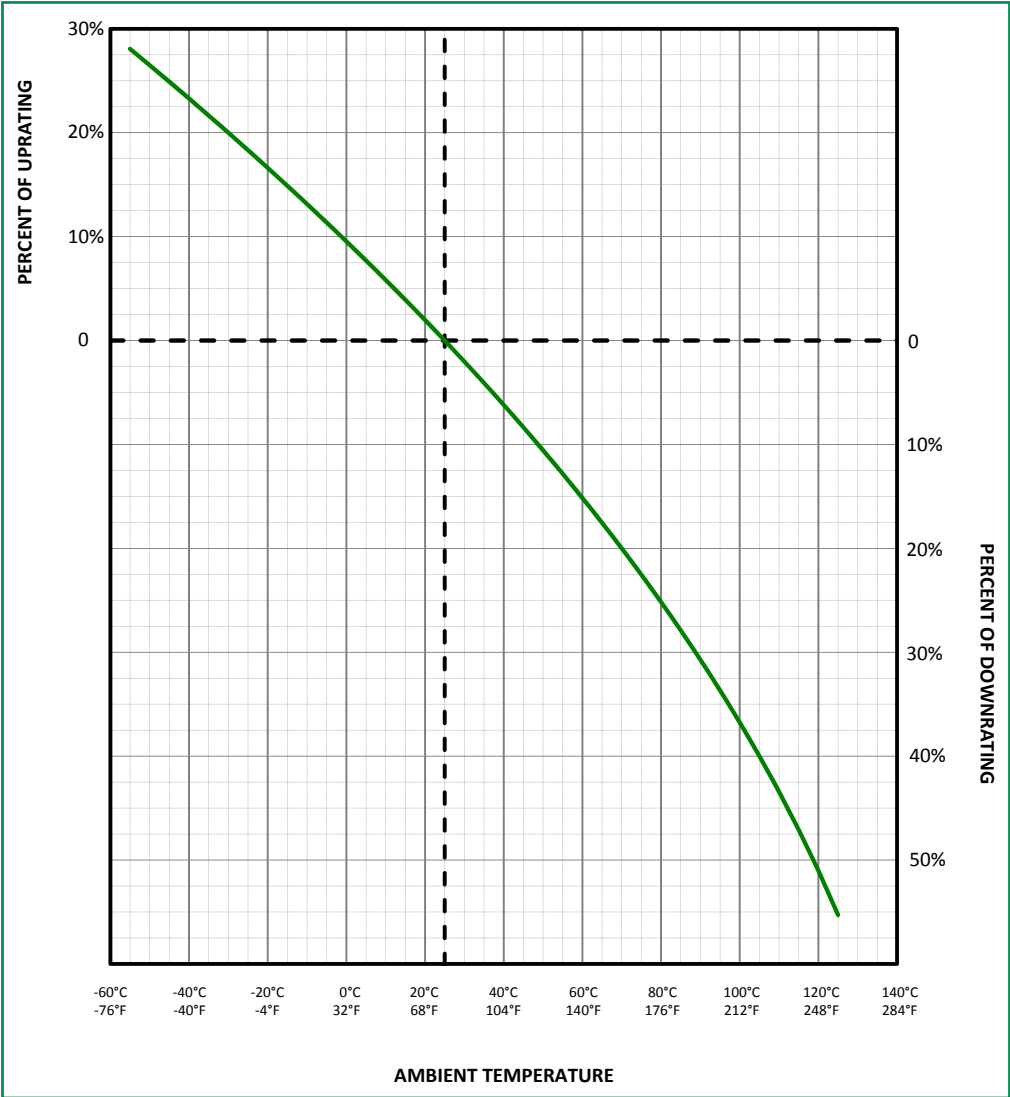
Time Current Curve



Time Current Curve



Temperature De-rating Curve (Temperature of Air Immediately Surrounding Fuse)



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- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



#### Как с нами связаться

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**Факс:** 8 (812) 320-02-42

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