# POWR-*SPEED*® Fuse

## PSR SERIES HIGH-SPEED SQUARE BODY

Semiconductor Fuses • Flush End • 40 A–2000 A

## Description

Littelfuse PSR series high-speed square body fuses are specially designed for protection of power semiconductor devices such as diodes, triacs, IGBTs, SCRs, MOSFETs, and other solid state devices that are typically designed into power conversion and power conditioning equipment. Variable frequency drives, inverters, UPS, rectifiers, and soft-starters are examples of typical equipment designed with sensitive power semiconductor devices that cannot withstand any line surge or overcurrent conditions and require high-speed protection.

Littelfuse POWR-*SPEED* PSR series products offer optimized circuit protection at the extremely fast speed required to protect modern day power conversion devices. Such products are commonly found in numerous applications including pulp and paper industries, cranes and heavy-lifting equipment, processing industries, wastewater treatment plants, and various large factories and MRO facilities.

## Features/Benefits

- Best in class dc performance
- Extremely current limiting
- Superior cycling capability
- Global certification cURus, CCC*
- Direct bus-bar mount design
- Visual and optional microswitch fuse blown indication
- Low watt-loss design
- Compliance with US and Canadian requirements
- Class aR performance according to IEC60269-4

## Applications

- Power conversion devices (UPS, inverter, rectifiers, drives)
- Dc systems (dc common bus, dc injection braking)
- Battery protection application (energy storage systems)
- Electric vehicle charging stations
- Heaters and power supplies

## Specifications

| | |
|---|---|
| **Voltage Range** | Ac: 550 V–1300 V<br>Dc: 500 V–1000 V |
| **Amperage Range** | 40 A–2000 A |
| **Interrupting Range** | Ac: 100 kA–200 kA<br>Dc: 150 kA |
| **Time Constant** | 10 ms at IR |
| **Microswitch** | Yes |
| **Mounting** | Flush-end style |
| **Material** | Body: ceramic<br>Contacts: plated brass |
| **Approvals** | UL 248-13 Recognized (File: E71611)<br>cURus (File: E71611)<br>CCC* |
| **Compliance** | UL248-13, IEC 60269-4 (Class aR) |
| **Environmental** | RoHS Compliant, REACH |
| **Operating Temperature** | -55 °C to +125 °C |
| **Storage Temperature** | Up to +35 °C with relative humidity <65 % |
| **Country of Origin** | Mexico |

## Ordering Part Number

**PSR 030 FL 0550 Z**

- **Series**
- **Case Size**: 30, 31, 32, 33, 70, 71, 72,73
- **Termination**: FL - Flush end metric thread; FS - Flush end inches thread
- **Amperage**
- **Packing Quantity**: Z = (2–3 pcs/box)

## Catalog Number

| SERIES | CASE SIZE | TERMINATION | AMPERAGE | CATALOG NUMBER | ORDERING PART NUMBER |
|---|---|---|---|---|---|
| PSR | 030 | FL | 0550 | PSR030FL0550 | PSR030FL0550Z |

## Recommended Accessories

**Microswitch:** MS3H1000C (case size 30 to 33)
MS7H1500C (case size 70 to 73)

## Web Resources

Download technical documents: **Littelfuse.com/psr**

*Note: high-speed fuses are designed for fixed installations. They are not intended for use in moving vehicle applications.*

*CCC Certification only for Flush End Metric Thread version


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## Electrical Characteristics

| CASE SIZE | CATALOG NUMBER | | AMPERAGE RATING (A) | VOLTAGE RATING (V) | | | INTERRUPTING RATING | | MELTING (PRE-ARC) $I^2T$ ($A^2s$) | TOTAL CLEARING $I^2T$ ($A^2s$) AT RATED VOLTAGE | | WATT LOSS AT 100 % RATED CURRENT (W) | AGENCY CERTIFICATION | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FLUSH END METRIC THREAD | FLUSH END INCHES THREAD | | AC | | DC | AC | DC | | AC | DC | | cURus | CCC* |
| | | | | IEC | UL | | | | | | | | | |
| 30 | PSR030FL0040 | PSR030FS0040 | 40 | 690 | 700 | 600 | 200 kA | 150 kA | 76 | 280 | 260 | 12 | • | • |
| | PSR030FL0050 | PSR030FS0050 | 50 | 690 | 700 | 600 | 200 kA | 150 kA | 110 | 598 | 384 | 15 | • | • |
| | PSR030FL0063 | PSR030FS0063 | 63 | 690 | 700 | 600 | 200 kA | 150 kA | 176 | 1023 | 640 | 20 | • | • |
| | PSR030FL0080 | PSR030FS0080 | 80 | 690 | 700 | 600 | 200 kA | 150 kA | 304 | 1728 | 1252 | 24 | • | • |
| | PSR030FL0100 | PSR030FS0100 | 100 | 690 | 700 | 600 | 200 kA | 150 kA | 437 | 2835 | 1575 | 27 | • | • |
| | PSR030FL0125 | PSR030FS0125 | 125 | 690 | 700 | 600 | 200 kA | 150 kA | 707 | 4684 | 2783 | 36 | • | • |
| | PSR030FL0160 | PSR030FS0160 | 160 | 690 | 700 | 600 | 200 kA | 150 kA | 1359 | 9114 | 5507 | 39 | • | • |
| | PSR030FL0200 | PSR030FS0200 | 200 | 690 | 700 | 600 | 200 kA | 150 kA | 3012 | 15169 | 14700 | 39 | • | • |
| | PSR030FL0250 | PSR030FS0250 | 250 | 690 | 700 | 600 | 200 kA | 150 kA | 4668 | 29952 | 20833 | 50 | • | • |
| | PSR030FL0315 | PSR030FS0315 | 315 | 690 | 700 | 600 | 200 kA | 150 kA | 7131 | 61830 | 31600 | 61 | • | • |
| | PSR030FL0350 | PSR030FS0350 | 350 | 690 | 700 | 600 | 200 kA | 150 kA | 12007 | 85320 | 49273 | 62 | • | • |
| | PSR030FL0400 | PSR030FS0400 | 400 | 690 | 700 | 600 | 200 kA | 150 kA | 16209 | 114750 | 63367 | 75 | • | • |
| | PSR030FL0450 | PSR030FS0450 | 450 | 690 | 700 | 600 | 200 kA | 150 kA | 23133 | 160110 | 93533 | 75 | • | • |
| | PSR030FL0500 | PSR030FS0500 | 500 | 690 | 700 | 600 | 200 kA | 150 kA | 31429 | 225180 | 137333 | 80 | • | • |
| | PSR030FL0550 | PSR030FS0550 | 550 | 690 | 700 | 600 | 200 kA | 150 kA | 44323 | 268920 | 145400 | 78 | • | • |
| 31 | PSR031FL0200 | PSR031FS0200 | 200 | 690 | 700 | 600 | 200 kA | 150 kA | 1965 | 17334 | 16188 | 49 | • | • |
| | PSR031FL0250 | PSR031FS0250 | 250 | 690 | 700 | 600 | 200 kA | 150 kA | 3789 | 35343 | 21080 | 52 | • | • |
| | PSR031FL0315 | PSR031FS0315 | 315 | 690 | 700 | 600 | 200 kA | 150 kA | 6862 | 59130 | 30694 | 61 | • | • |
| | PSR031FL0350 | PSR031FS0350 | 350 | 690 | 700 | 600 | 200 kA | 150 kA | 9523 | 76140 | 40996 | 63 | • | • |
| | PSR031FL0400 | PSR031FS0400 | 400 | 690 | 700 | 600 | 200 kA | 150 kA | 14770 | 124335 | 64359 | 63 | • | • |
| | PSR031FL0450 | PSR031FS0450 | 450 | 690 | 700 | 600 | 200 kA | 150 kA | 22457 | 178200 | 97444 | 68 | • | • |
| | PSR031FL0500 | PSR031FS0500 | 500 | 690 | 700 | 600 | 200 kA | 150 kA | 29751 | 251505 | 125935 | 74 | • | • |
| | PSR031FL0550 | PSR031FS0550 | 550 | 690 | 700 | 600 | 200 kA | 150 kA | 42056 | 289170 | 171845 | 79 | • | • |
| | PSR031FL0630 | PSR031FS0630 | 630 | 690 | 700 | 600 | 200 kA | 150 kA | 73513 | 507465 | 276315 | 86 | • | • |
| | PSR031FL0700 | PSR031FS0700 | 700 | 690 | 700 | 600 | 200 kA | 150 kA | 98187 | 601425 | 337260 | 89 | • | • |
| | PSR031FL0800 | PSR031FS0800 | 800 | 690 | 700 | 600 | 200 kA | 150 kA | 137208 | 848880 | 502800 | 107 | • | • |
| 32 | PSR032FL0400 | PSR032FS0400 | 400 | 690 | 700 | 600 | 200 kA | 150 kA | 11104 | 79650 | 44533 | 82 | • | • |
| | PSR032FL0450 | PSR032FS0450 | 450 | 690 | 700 | 600 | 200 kA | 150 kA | 15535 | 116100 | 65463 | 88 | • | • |
| | PSR032FL0500 | PSR032FS0500 | 500 | 690 | 700 | 600 | 200 kA | 150 kA | 21573 | 161460 | 88277 | 94 | • | • |
| | PSR032FL0550 | PSR032FS0550 | 550 | 690 | 700 | 600 | 200 kA | 150 kA | 26327 | 177660 | 107960 | 104 | • | • |
| | PSR032FL0630 | PSR032FS0630 | 630 | 690 | 700 | 600 | 200 kA | 150 kA | 34790 | 234900 | 156963 | 110 | • | • |
| | PSR032FL0700 | PSR032FS0700 | 700 | 690 | 700 | 600 | 200 kA | 150 kA | 51191 | 291870 | 209287 | 117 | • | • |
| | PSR032FL0800 | PSR032FS0800 | 800 | 690 | 700 | 600 | 200 kA | 150 kA | 60125 | 472770 | 249000 | 145 | • | • |
| | PSR032FL0900 | PSR032FS0900 | 900 | 690 | 700 | 600 | 200 kA | 150 kA | 107785 | 764100 | 404000 | 145 | • | • |
| | PSR032FL1000 | PSR032FS1000 | 1000 | 690 | 700 | 600 | 200 kA | 150 kA | 190102 | 933120 | 672333 | 146 | • | • |
| | PSR032FL1100 | PSR032FS1100 | 1100 | 690 | 700 | 600 | 200 kA | 150 kA | 225379 | 1247400 | 744000 | 149 | • | • |
| 33 | PSR033FL0450 | PSR033FS0450 | 450 | 690 | 700 | 600 | 200 kA | 150 kA | 13600 | 106380 | 58947 | 99 | • | • |
| | PSR033FL0500 | PSR033FS0500 | 500 | 690 | 700 | 600 | 200 kA | 150 kA | 16434 | 140400 | 77846 | 107 | • | • |
| | PSR033FL0550 | PSR033FS0550 | 550 | 690 | 700 | 600 | 200 kA | 150 kA | 23314 | 187650 | 100461 | 108 | • | • |
| | PSR033FL0630 | PSR033FS0630 | 630 | 690 | 700 | 600 | 200 kA | 150 kA | 38727 | 285930 | 142437 | 113 | • | • |
| | PSR033FL0700 | PSR033FS0700 | 700 | 690 | 700 | 600 | 200 kA | 150 kA | 56763 | 392580 | 209863 | 113 | • | • |
| | PSR033FL0800 | PSR033FS0800 | 800 | 690 | 700 | 600 | 200 kA | 150 kA | 84691 | 575505 | 348500 | 120 | • | • |
| | PSR033FL0900 | PSR033FS0900 | 900 | 690 | 700 | 600 | 200 kA | 150 kA | 122619 | 740340 | 451177 | 122 | • | • |
| | PSR033FL1000 | PSR033FS1000 | 1000 | 690 | 700 | 600 | 200 kA | 150 kA | 222350 | 1170450 | 787750 | 124 | • | • |
| | PSR033FL1100 | PSR033FS1100 | 1100 | 690 | 700 | 600 | 200 kA | 150 kA | 310824 | 1568700 | 821400 | 127 | • | • |
| | PSR033FL1250 | PSR033FS1250 | 1250 | 690 | 700 | 600 | 200 kA | 150 kA | 476902 | 2403000 | 1674333 | 131 | • | • |
| | PSR033FL1400 | PSR033FS1400 | 1400 | 690 | 700 | 500 | 200 kA | 150 kA | 583552 | 2920050 | 1979750 | 144 | • | • |
| | PSR033FL1500 | PSR033FS1500 | 1500 | 600 | 650 | 500 | 200 kA | 150 kA | 674538 | 2433200 | 1996733 | 163 | • | • |
| | PSR033FL1600 | PSR033FS1600 | 1600 | 600 | 650 | 500 | 200 kA | 150 kA | 779948 | 2942800 | 2301633 | 182 | • | • |
| | PSR033FL1800 | PSR033FS1800 | 1800 | 600 | 650 | 500 | 200 kA | 150 kA | 952196 | 3785040 | 2724180 | 224 | • | • |
| | PSR033FL2000 | PSR033FS2000 | 2000 | 550 | 600 | 500 | 200 kA | 150 kA | 1234315 | 4131600 | 3755180 | 222 | • | • |

*CCC Cetrification only on Flush End Metric Thread Version


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## Electrical Characteristics (cont.)

| CASE SIZE | CATALOG NUMBER | | AMPERAGE RATING (A) | VOLTAGE RATING (V) | | | INTERRUPTING RATING | | MELTING (PRE-ARC) $I^2T$ ($A^2s$) | TOTAL CLEARING $I^2T$ ($A^2s$) AT RATED VOLTAGE | | WATT LOSS AT 100 % RATED CURRENT (W) | AGENCY CERTIFICATION | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | FLUSH END METRIC THREAD | FLUSH END INCHES THREAD | | AC | | DC | AC | DC | | AC | DC | | cURus | CCC* |
| | | | | IEC | UL | | | | | | | | | |
| 70 | PSR070FL0050 | PSR070FS0050 | 50 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 177 | 2050 | 400 | 21 | • | • |
| | PSR070FL0063 | PSR070FS0063 | 63 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 273 | 3399 | 900 | 23 | • | • |
| | PSR070FL0080 | PSR070FS0080 | 80 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 583 | 6732 | 2200 | 24 | • | • |
| | PSR070FL0100 | PSR070FS0100 | 100 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 974 | 10996 | 3750 | 29 | • | • |
| | PSR070FL0125 | PSR070FS0125 | 125 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 1352 | 13011 | 5150 | 43 | • | • |
| | PSR070FL0160 | PSR070FS0160 | 160 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 2377 | 25662 | 8950 | 51 | • | • |
| | PSR070FL0200 | PSR070FS0200 | 200 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 4177 | 39087 | 17267 | 61 | • | • |
| | PSR070FL0250 | PSR070FS0250 | 250 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 8629 | 89790 | 36750 | 71 | • | • |
| | PSR070FL0280 | PSR070FS0280 | 280 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 11844 | 113201 | 46750 | 71 | • | • |
| | PSR070FL0315 | PSR070FS0315 | 315 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 18162 | 142051 | 66833 | 69 | • | • |
| 71 | PSR071FL0160 | PSR071FS0160 | 160 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 2756 | 24600 | 8800 | 42 | • | • |
| | PSR071FL0200 | PSR071FS0200 | 200 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 4918 | 50307 | 19050 | 52 | • | • |
| | PSR071FL0250 | PSR071FS0250 | 250 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 10592 | 104427 | 43100 | 54 | • | • |
| | PSR071FL0280 | PSR071FS0280 | 280 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 13763 | 131897 | 54150 | 58 | • | |
| | PSR071FL0315 | PSR071FS0315 | 315 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 20882 | 200244 | 67450 | 60 | • | • |
| | PSR071FL0350 | PSR071FS0350 | 350 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 23301 | 225500 | 102500 | 71 | • | • |
| | PSR071FL0400 | PSR071FS0400 | 400 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 43211 | 374986 | 185000 | 69 | • | • |
| | PSR071FL0450 | PSR071FS0450 | 450 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 55915 | 452394 | 241333 | 88 | • | • |
| 72 | PSR072FL0250 | PSR072FS0250 | 250 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 7737 | 72789 | 28567 | 63 | • | • |
| | PSR072FL0280 | PSR072FS0280 | 280 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 10915 | 124538 | 46897 | 62 | • | • |
| | PSR072FL0315 | PSR072FS0315 | 315 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 16187 | 145140 | 58867 | 67 | • | • |
| | PSR072FL0350 | PSR072FS0350 | 350 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 18727 | 160447 | 69633 | 80 | • | • |
| | PSR072FL0400 | PSR072FS0400 | 400 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 27112 | 243540 | 108000 | 89 | • | • |
| | PSR072FL0450 | PSR072FS0450 | 450 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 35927 | 406413 | 159133 | 107 | • | • |
| | PSR072FL0500 | PSR072FS0500 | 500 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 50398 | 425375 | 216333 | 115 | • | • |
| | PSR072FL0550 | PSR072FS0550 | 550 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 73858 | 539833 | 271333 | 115 | • | • |
| | PSR072FL0630 | PSR072FS0630 | 630 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 126126 | 942180 | 436000 | 119 | • | • |
| 73 | PSR073FL0315 | PSR073FS0315 | 315 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 10245 | 106600 | 38650 | 88 | • | • |
| | PSR073FL0350 | PSR073FS0350 | 350 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 13586 | 159627 | 57467 | 96 | • | • |
| | PSR073FL0400 | PSR073FS0400 | 400 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 19797 | 211273 | 86800 | 124 | • | • |
| | PSR073FL0450 | PSR073FS0450 | 450 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 29834 | 279073 | 114333 | 122 | • | • |
| | PSR073FL0500 | PSR073FS0500 | 500 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 42751 | 416437 | 184500 | 121 | • | • |
| | PSR073FL0550 | PSR073FS0550 | 550 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 55513 | 491713 | 224500 | 130 | • | • |
| | PSR073FL0630 | PSR073FS0630 | 630 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 94649 | 804338 | 377500 | 136 | • | • |
| | PSR073FL0700 | PSR073FS0700 | 700 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 158097 | 1170960 | 575667 | 135 | • | • |

*CCC Cetrification only on Flush End Metric Thread Version


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## Ordering Information

| CASE SIZE | FLUSH END - METRIC THREAD | | | FLUSH END - INCHES THREAD | | | BOX QUANTITY PCS/BOX |
|---|---|---|---|---|---|---|---|
| | CATALOG NUMBER | ORDERING PART NUMBER | UPC | CATALOG NUMBER | ORDERING PART NUMBER | UPC | |
| 30 | PSR030FL0040 | PSR030FL0040Z | 07945820436 | PSR030FS0040 | PSR030FS0040Z | 07945820451 | 3 pcs/box |
| | PSR030FL0050 | PSR030FL0050Z | 07945820437 | PSR030FS0050 | PSR030FS0050Z | 07945820452 | 3 pcs/box |
| | PSR030FL0063 | PSR030FL0063Z | 07945820438 | PSR030FS0063 | PSR030FS0063Z | 07945820453 | 3 pcs/box |
| | PSR030FL0080 | PSR030FL0080Z | 07945820439 | PSR030FS0080 | PSR030FS0080Z | 07945820454 | 3 pcs/box |
| | PSR030FL0100 | PSR030FL0100Z | 07945820440 | PSR030FS0100 | PSR030FS0100Z | 07945820455 | 3 pcs/box |
| | PSR030FL0125 | PSR030FL0125Z | 07945820441 | PSR030FS0125 | PSR030FS0125Z | 07945820456 | 3 pcs/box |
| | PSR030FL0160 | PSR030FL0160Z | 07945820442 | PSR030FS0160 | PSR030FS0160Z | 07945820457 | 3 pcs/box |
| | PSR030FL0200 | PSR030FL0200Z | 07945820443 | PSR030FS0200 | PSR030FS0200Z | 07945820458 | 3 pcs/box |
| | PSR030FL0250 | PSR030FL0250Z | 07945820444 | PSR030FS0250 | PSR030FS0250Z | 07945820459 | 3 pcs/box |
| | PSR030FL0315 | PSR030FL0315Z | 07945820445 | PSR030FS0315 | PSR030FS0315Z | 07945820460 | 3 pcs/box |
| | PSR030FL0350 | PSR030FL0350Z | 07945820446 | PSR030FS0350 | PSR030FS0350Z | 07945820461 | 3 pcs/box |
| | PSR030FL0400 | PSR030FL0400Z | 07945820447 | PSR030FS0400 | PSR030FS0400Z | 07945820462 | 3 pcs/box |
| | PSR030FL0450 | PSR030FL0450Z | 07945820448 | PSR030FS0450 | PSR030FS0450Z | 07945820463 | 3 pcs/box |
| | PSR030FL0500 | PSR030FL0500Z | 07945820449 | PSR030FS0500 | PSR030FS0500Z | 07945820464 | 3 pcs/box |
| | PSR030FL0550 | PSR030FL0550Z | 07945820450 | PSR030FS0550 | PSR030FS0550Z | 07945820465 | 3 pcs/box |
| 31 | PSR031FL0200 | PSR031FL0200Z | 07945820466 | PSR031FS0200 | PSR031FS0200Z | 07945820477 | 3 pcs/box |
| | PSR031FL0250 | PSR031FL0250Z | 07945820467 | PSR031FS0250 | PSR031FS0250Z | 07945820478 | 3 pcs/box |
| | PSR031FL0315 | PSR031FL0315Z | 07945820468 | PSR031FS0315 | PSR031FS0315Z | 07945820479 | 3 pcs/box |
| | PSR031FL0350 | PSR031FL0350Z | 07945820469 | PSR031FS0350 | PSR031FS0350Z | 07945820480 | 3 pcs/box |
| | PSR031FL0400 | PSR031FL0400Z | 07945820470 | PSR031FS0400 | PSR031FS0400Z | 07945820481 | 3 pcs/box |
| | PSR031FL0450 | PSR031FL0450Z | 07945820471 | PSR031FS0450 | PSR031FS0450Z | 07945820482 | 3 pcs/box |
| | PSR031FL0500 | PSR031FL0500Z | 07945820472 | PSR031FS0500 | PSR031FS0500Z | 07945820483 | 3 pcs/box |
| | PSR031FL0550 | PSR031FL0550Z | 07945820473 | PSR031FS0550 | PSR031FS0550Z | 07945820484 | 3 pcs/box |
| | PSR031FL0630 | PSR031FL0630Z | 07945820474 | PSR031FS0630 | PSR031FS0630Z | 07945820485 | 3 pcs/box |
| | PSR031FL0700 | PSR031FL0700Z | 07945820475 | PSR031FS0700 | PSR031FS0700Z | 07945820486 | 3 pcs/box |
| | PSR031FL0800 | PSR031FL0800Z | 07945820476 | PSR031FS0800 | PSR031FS0800Z | 07945820487 | 3 pcs/box |
| 32 | PSR032FL0400 | PSR032FL0400Z | 07945820488 | PSR032FS0400 | PSR032FS0400Z | 07945820498 | 3 pcs/box |
| | PSR032FL0450 | PSR032FL0450Z | 07945820489 | PSR032FS0450 | PSR032FS0450Z | 07945820499 | 3 pcs/box |
| | PSR032FL0500 | PSR032FL0500Z | 07945820490 | PSR032FS0500 | PSR032FS0500Z | 07945820500 | 3 pcs/box |
| | PSR032FL0550 | PSR032FL0550Z | 07945820491 | PSR032FS0550 | PSR032FS0550Z | 07945820501 | 3 pcs/box |
| | PSR032FL0630 | PSR032FL0630Z | 07945820492 | PSR032FS0630 | PSR032FS0630Z | 07945820502 | 3 pcs/box |
| | PSR032FL0700 | PSR032FL0700Z | 07945820493 | PSR032FS0700 | PSR032FS0700Z | 07945820503 | 3 pcs/box |
| | PSR032FL0800 | PSR032FL0800Z | 07945820494 | PSR032FS0800 | PSR032FS0800Z | 07945820504 | 3 pcs/box |
| | PSR032FL0900 | PSR032FL0900Z | 07945820495 | PSR032FS0900 | PSR032FS0900Z | 07945820505 | 3 pcs/box |
| | PSR032FL1000 | PSR032FL1000Z | 07945820496 | PSR032FS1000 | PSR032FS1000Z | 07945820506 | 3 pcs/box |
| | PSR032FL1100 | PSR032FL1100Z | 07945820497 | PSR032FS1100 | PSR032FS1100Z | 07945820507 | 3 pcs/box |
| 33 | PSR033FL0450 | PSR033FL0450Z | 07945822163 | PSR033FS0450 | PSR033FS0450Z | 07945822164 | 3 pcs/box |
| | PSR033FL0500 | PSR033FL0500Z | 07945820508 | PSR033FS0500 | PSR033FS0500Z | 07945820522 | 3 pcs/box |
| | PSR033FL0550 | PSR033FL0550Z | 07945820509 | PSR033FS0550 | PSR033FS0550Z | 07945820523 | 3 pcs/box |
| | PSR033FL0630 | PSR033FL0630Z | 07945820510 | PSR033FS0630 | PSR033FS0630Z | 07945820524 | 3 pcs/box |
| | PSR033FL0700 | PSR033FL0700Z | 07945820511 | PSR033FS0700 | PSR033FS0700Z | 07945820525 | 3 pcs/box |
| | PSR033FL0800 | PSR033FL0800Z | 07945820512 | PSR033FS0800 | PSR033FS0800Z | 07945820526 | 3 pcs/box |
| | PSR033FL0900 | PSR033FL0900Z | 07945820513 | PSR033FS0900 | PSR033FS0900Z | 07945820527 | 3 pcs/box |
| | PSR033FL1000 | PSR033FL1000Z | 07945820514 | PSR033FS1000 | PSR033FS1000Z | 07945820528 | 3 pcs/box |
| | PSR033FL1100 | PSR033FL1100Z | 07945820515 | PSR033FS1100 | PSR033FS1100Z | 07945820529 | 3 pcs/box |
| | PSR033FL1250 | PSR033FL1250Z | 07945820516 | PSR033FS1250 | PSR033FS1250Z | 07945820530 | 3 pcs/box |
| | PSR033FL1400 | PSR033FL1400Z | 07945820517 | PSR033FS1400 | PSR033FS1400Z | 07945820531 | 3 pcs/box |
| | PSR033FL1500 | PSR033FL1500Z | 07945820518 | PSR033FS1500 | PSR033FS1500Z | 07945820532 | 3 pcs/box |
| | PSR033FL1600 | PSR033FL1600Z | 07945820519 | PSR033FS1600 | PSR033FS1600Z | 07945820533 | 3 pcs/box |
| | PSR033FL1800 | PSR033FL1800Z | 07945820520 | PSR033FS1800 | PSR033FS1800Z | 07945820534 | 3 pcs/box |
| | PSR033FL2000 | PSR033FL2000Z | 07945820521 | PSR033FS2000 | PSR033FS2000Z | 07945820535 | 3 pcs/box |


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## Ordering Information (cont.)

| CASE SIZE | FLUSH END - METRIC THREAD | | | FLUSH END - INCHES THREAD | | | BOX QUANTITY PCS/BOX |
|---|---|---|---|---|---|---|---|
| | CATALOG NUMBER | ORDERING PART NUMBER | UPC | CATALOG NUMBER | ORDERING PART NUMBER | UPC | |
| 70 | PSR070FL0050 | PSR070FL0050Z | 07945820536 | PSR070FS0050 | PSR070FS0050Z | 07945820546 | 2 pcs/box |
| | PSR070FL0063 | PSR070FL0063Z | 07945820537 | PSR070FS0063 | PSR070FS0063Z | 07945820547 | 2 pcs/box |
| | PSR070FL0080 | PSR070FL0080Z | 07945820538 | PSR070FS0080 | PSR070FS0080Z | 07945820548 | 2 pcs/box |
| | PSR070FL0100 | PSR070FL0100Z | 07945820539 | PSR070FS0100 | PSR070FS0100Z | 07945820549 | 2 pcs/box |
| | PSR070FL0125 | PSR070FL0125Z | 07945820540 | PSR070FS0125 | PSR070FS0125Z | 07945820550 | 2 pcs/box |
| | PSR070FL0160 | PSR070FL0160Z | 07945820541 | PSR070FS0160 | PSR070FS0160Z | 07945820551 | 2 pcs/box |
| | PSR070FL0200 | PSR070FL0200Z | 07945820542 | PSR070FS0200 | PSR070FS0200Z | 07945820552 | 2 pcs/box |
| | PSR070FL0250 | PSR070FL0250Z | 07945820543 | PSR070FS0250 | PSR070FS0250Z | 07945820553 | 2 pcs/box |
| | PSR070FL0280 | PSR070FL0280Z | 07945820544 | PSR070FS0280 | PSR070FS0280Z | 07945820554 | 2 pcs/box |
| | PSR070FL0315 | PSR070FL0315Z | 07945820545 | PSR070FS0315 | PSR070FS0315Z | 07945820555 | 2 pcs/box |
| 71 | PSR071FL0160 | PSR071FL0160Z | 07945820556 | PSR071FS0160 | PSR071FS0160Z | 07945820564 | 2 pcs/box |
| | PSR071FL0200 | PSR071FL0200Z | 07945820557 | PSR071FS0200 | PSR071FS0200Z | 07945820565 | 2 pcs/box |
| | PSR071FL0250 | PSR071FL0250Z | 07945820558 | PSR071FS0250 | PSR071FS0250Z | 07945820566 | 2 pcs/box |
| | PSR071FL0280 | PSR071FL0280Z | 07945820573 | PSR071FS0280 | PSR071FS0280Z | 07945820582 | 2 pcs/box |
| | PSR071FL0315 | PSR071FL0315Z | 07945820560 | PSR071FS0315 | PSR071FS0315Z | 07945820568 | 2 pcs/box |
| | PSR071FL0350 | PSR071FL0350Z | 07945820561 | PSR071FS0350 | PSR071FS0350Z | 07945820569 | 2 pcs/box |
| | PSR071FL0400 | PSR071FL0400Z | 07945820562 | PSR071FS0400 | PSR071FS0400Z | 07945820570 | 2 pcs/box |
| | PSR071FL0450 | PSR071FL0450Z | 07945820563 | PSR071FS0450 | PSR071FS0450Z | 07945820571 | 2 pcs/box |
| 72 | PSR072FL0250 | PSR072FL0250Z | 07945820572 | PSR072FS0250 | PSR072FS0250Z | 07945820581 | 2 pcs/box |
| | PSR072FL0280 | PSR072FL0280Z | 07945820573 | PSR072FS0280 | PSR072FS0280Z | 07945820582 | 2 pcs/box |
| | PSR072FL0315 | PSR072FL0315Z | 07945820574 | PSR072FS0315 | PSR072FS0315Z | 07945820583 | 2 pcs/box |
| | PSR072FL0350 | PSR072FL0350Z | 07945820575 | PSR072FS0350 | PSR072FS0350Z | 07945820584 | 2 pcs/box |
| | PSR072FL0400 | PSR072FL0400Z | 07945820576 | PSR072FS0400 | PSR072FS0400Z | 07945820585 | 2 pcs/box |
| | PSR072FL0450 | PSR072FL0450Z | 07945820577 | PSR072FS0450 | PSR072FS0450Z | 07945820586 | 2 pcs/box |
| | PSR072FL0500 | PSR072FL0500Z | 07945820578 | PSR072FS0500 | PSR072FS0500Z | 07945820587 | 2 pcs/box |
| | PSR072FL0550 | PSR072FL0550Z | 07945820579 | PSR072FS0550 | PSR072FS0550Z | 07945820588 | 2 pcs/box |
| | PSR072FL0630 | PSR072FL0630Z | 07945820580 | PSR072FS0630 | PSR072FS0630Z | 07945820589 | 2 pcs/box |
| 73 | PSR073FL0315 | PSR073FL0315Z | 07945820590 | PSR073FS0315 | PSR073FS0315Z | 07945820602 | 2 pcs/box |
| | PSR073FL0350 | PSR073FL0350Z | 07945820591 | PSR073FS0350 | PSR073FS0350Z | 07945820603 | 2 pcs/box |
| | PSR073FL0400 | PSR073FL0400Z | 07945820592 | PSR073FS0400 | PSR073FS0400Z | 07945820604 | 2 pcs/box |
| | PSR073FL0450 | PSR073FL0450Z | 07945820593 | PSR073FS0450 | PSR073FS0450Z | 07945820605 | 2 pcs/box |
| | PSR073FL0500 | PSR073FL0500Z | 07945820594 | PSR073FS0500 | PSR073FS0500Z | 07945820606 | 2 pcs/box |
| | PSR073FL0550 | PSR073FL0550Z | 07945820595 | PSR073FS0550 | PSR073FS0550Z | 07945820607 | 2 pcs/box |
| | PSR073FL0630 | PSR073FL0630Z | 07945820596 | PSR073FS0630 | PSR073FS0630Z | 07945820608 | 2 pcs/box |
| | PSR073FL0700 | PSR073FL0700Z | 07945820597 | PSR073FS0700 | PSR073FS0700Z | 07945820609 | 2 pcs/box |


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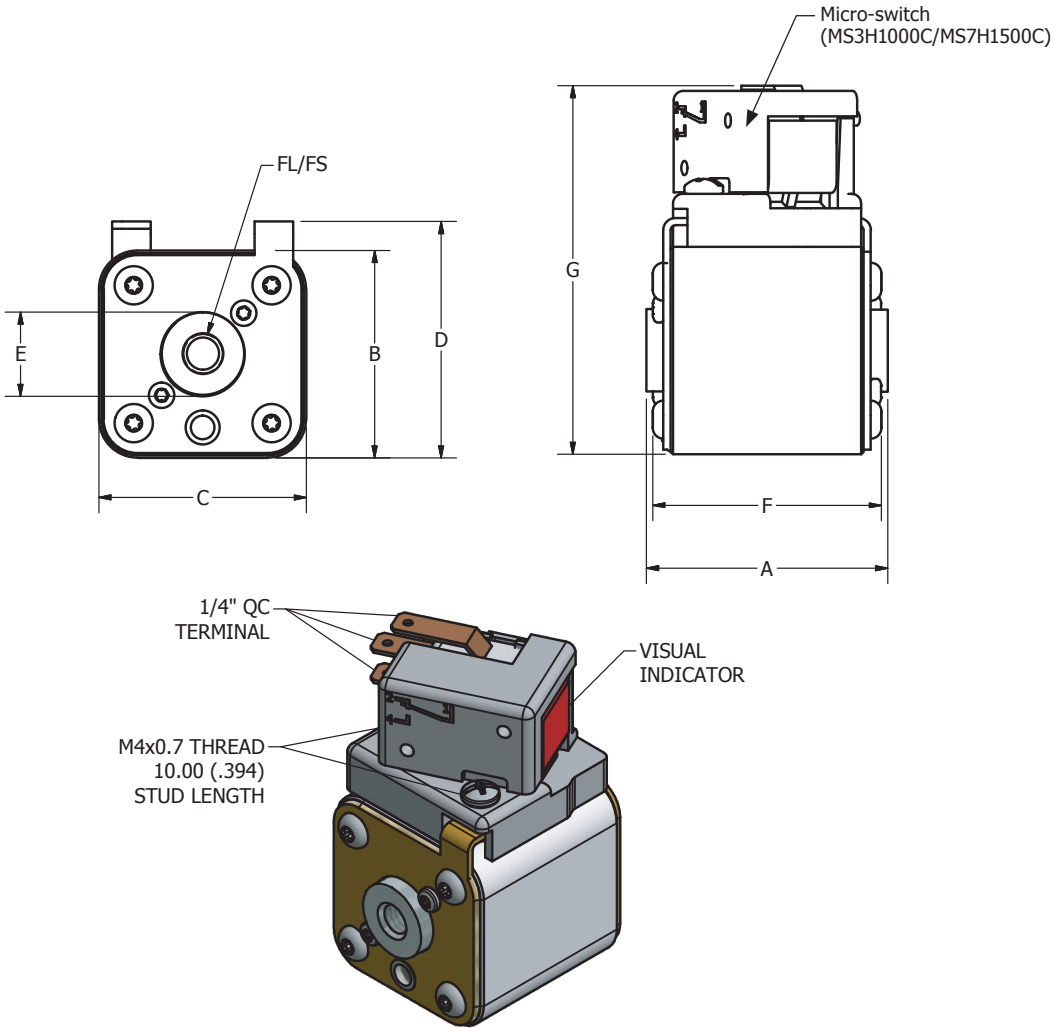
## Dimensions




| DIMENSIONS IN MM (IN) | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| CASE SIZE | A | B | C | D | E | F | G | FL METRIC THREAD | FS INCHES THREAD | RECOMMENDED TORQUE |
| 30 | 50.0 (1.97) | 43.0 (1.69) | 43.0 (1.69) | 49.0 (1.93) | 17.0 (0.67) | 47.4 (1.86) | 76.4 (3.01) | M8 x 1.25 | 5/16"–18 UNC 2B | 13–20 Nm |
| 31 | 50.0 (1.97) | 51.5 (2.03) | 51.5 (2.03) | 57.5 (2.26) | 20.0 (0.8) | 48.2 (1.90) | 84.9 (3.34) | M8 x 1.25 | 5/16"–18 UNC 2B | 13–20 Nm |
| 32 | 51.0 (2.01) | 60.0 (2.36) | 60.0 (2.36) | 66.0 (2.60) | 23.0 (0.91) | 48.8 (1.92) | 93.4 (3.68) | M10 x 1.5 | 3/8"–16 UNC 2B | 26–35 Nm |
| 33 | 51.0 (2.01) | 73.5 (2.89) | 73.5 (2.89) | 79.5 (3.13) | 30.0 (1.18) | 49.2 (1.94) | 106.9 (4.21) | M12 x 1.75 | 1/2"–13 UNC 2B | 45–55 Nm |
| 70 | 74.0 (2.91) | 43.0 (1.69) | 43.0 (1.69) | 49.0 (1.93) | 17.0 (0.67) | 71.4 (2.81) | 76.4 (3.01) | M8 x 1.25 | 5/16"–18 UNC 2B | 13–20 Nm |
| 71 | 74.0 (2.91) | 51.5 (2.03) | 51.5 (2.03) | 57.5 (2.26) | 20.0 (0.79) | 72.2 (2.84) | 84.9 (3.34) | M8 x 1.25 | 5/16"–18 UNC 2B | 13–20 Nm |
| 72 | 75.0 (2.95) | 60.0 (2.36) | 60.0 (2.36) | 66.0 (2.60) | 23.0 (0.91) | 72.8 (2.87) | 93.4 (3.68) | M10 x 1.5 | 3/8"–16 UNC 2B | 26–35 Nm |
| 73 | 75.0 (2.95) | 73.5 (2.89) | 73.5 (2.89) | 79.5 (3.13) | 30.0 (1.18) | 73.2 (2.88) | 106.9 (4.21) | M12 x 1.75 | 1/2"–13 UNC 2B | 45–55 Nm |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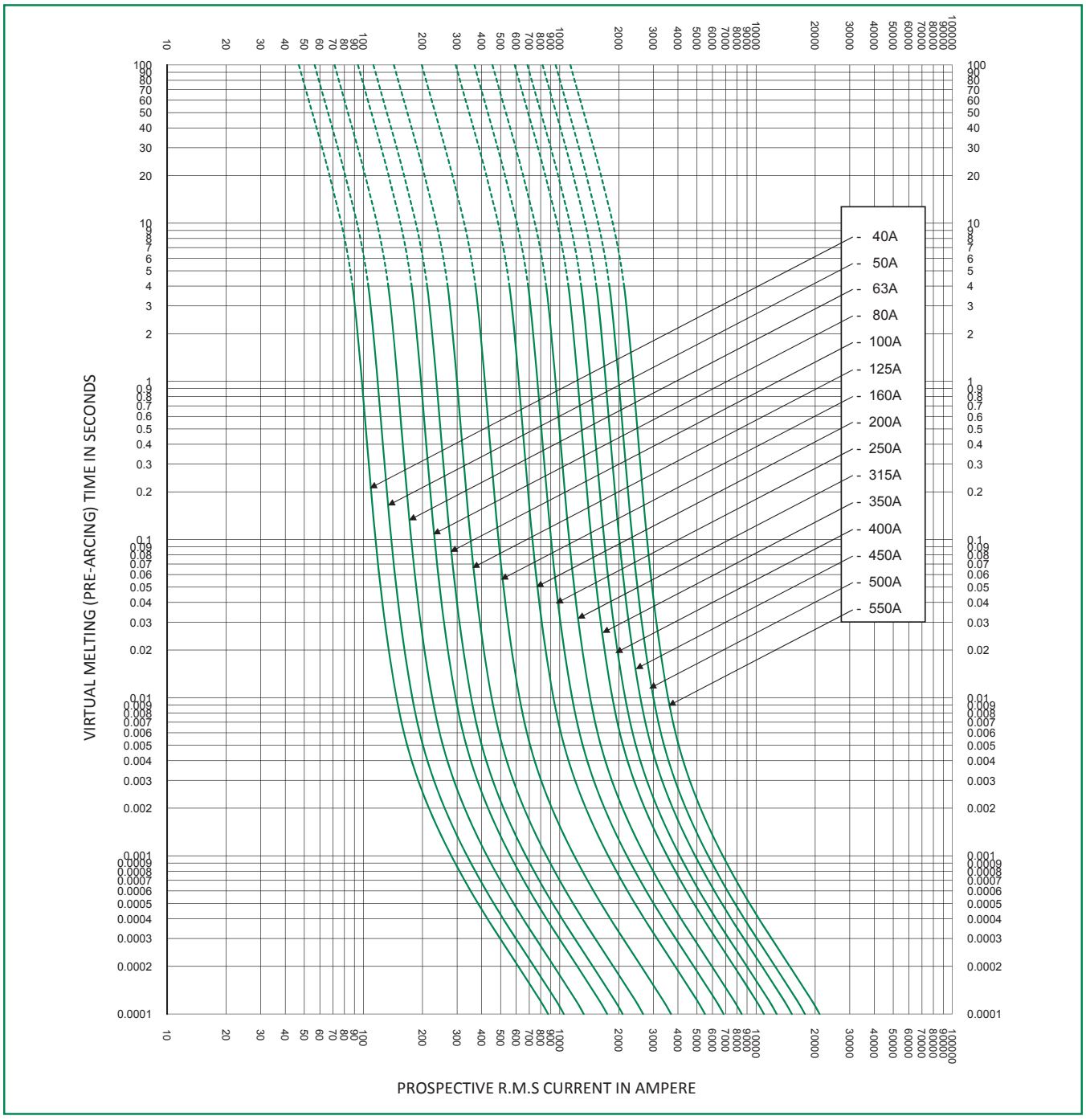
## Time Current Curve (30 Case Size)




* Dc minimum breaking capacity = 9 x Rated Current of Fuse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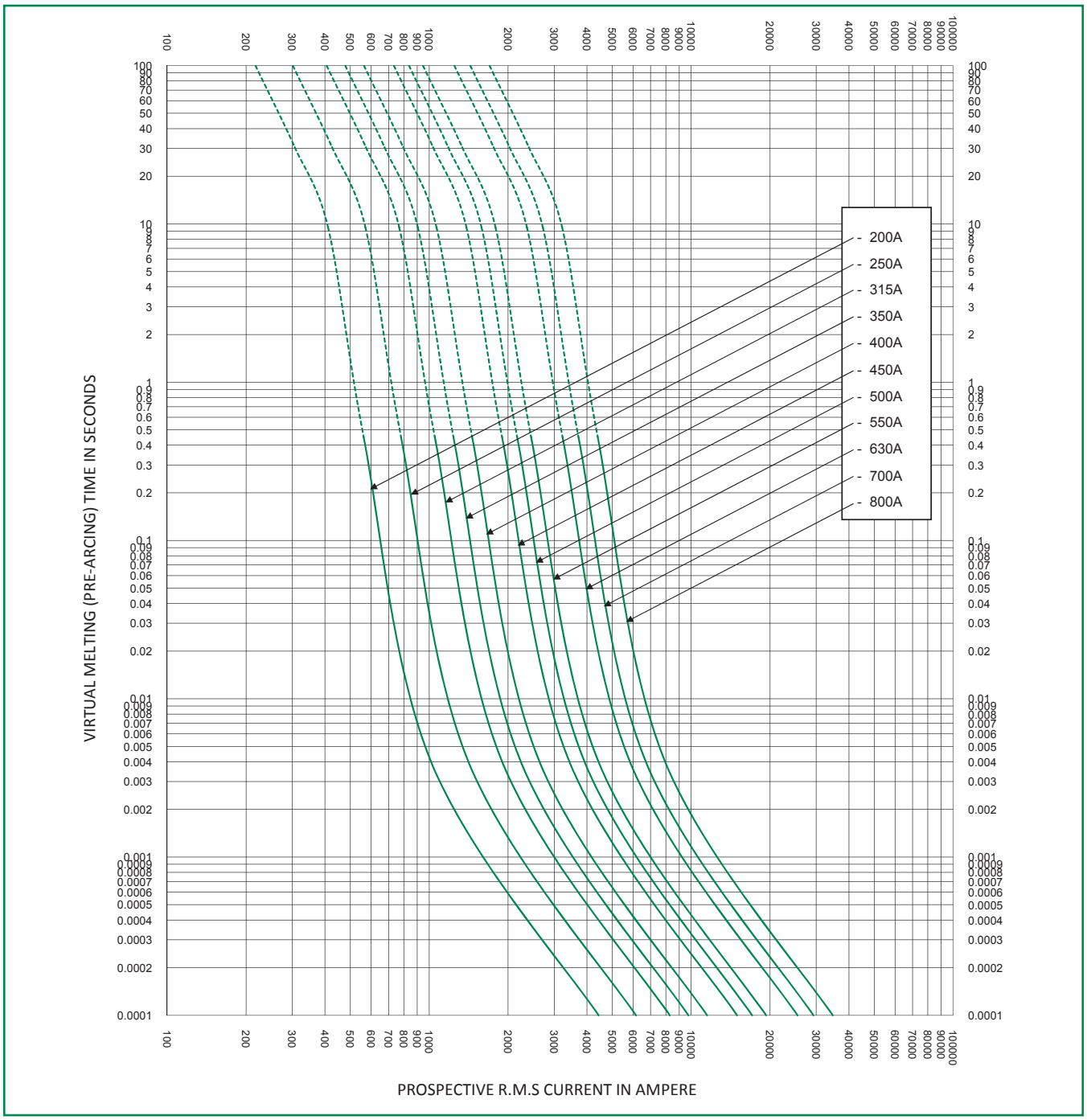
## Time Current Curve (31 Case Size)




* Dc minimum breaking capacity = 9 x Rated Current of Fuse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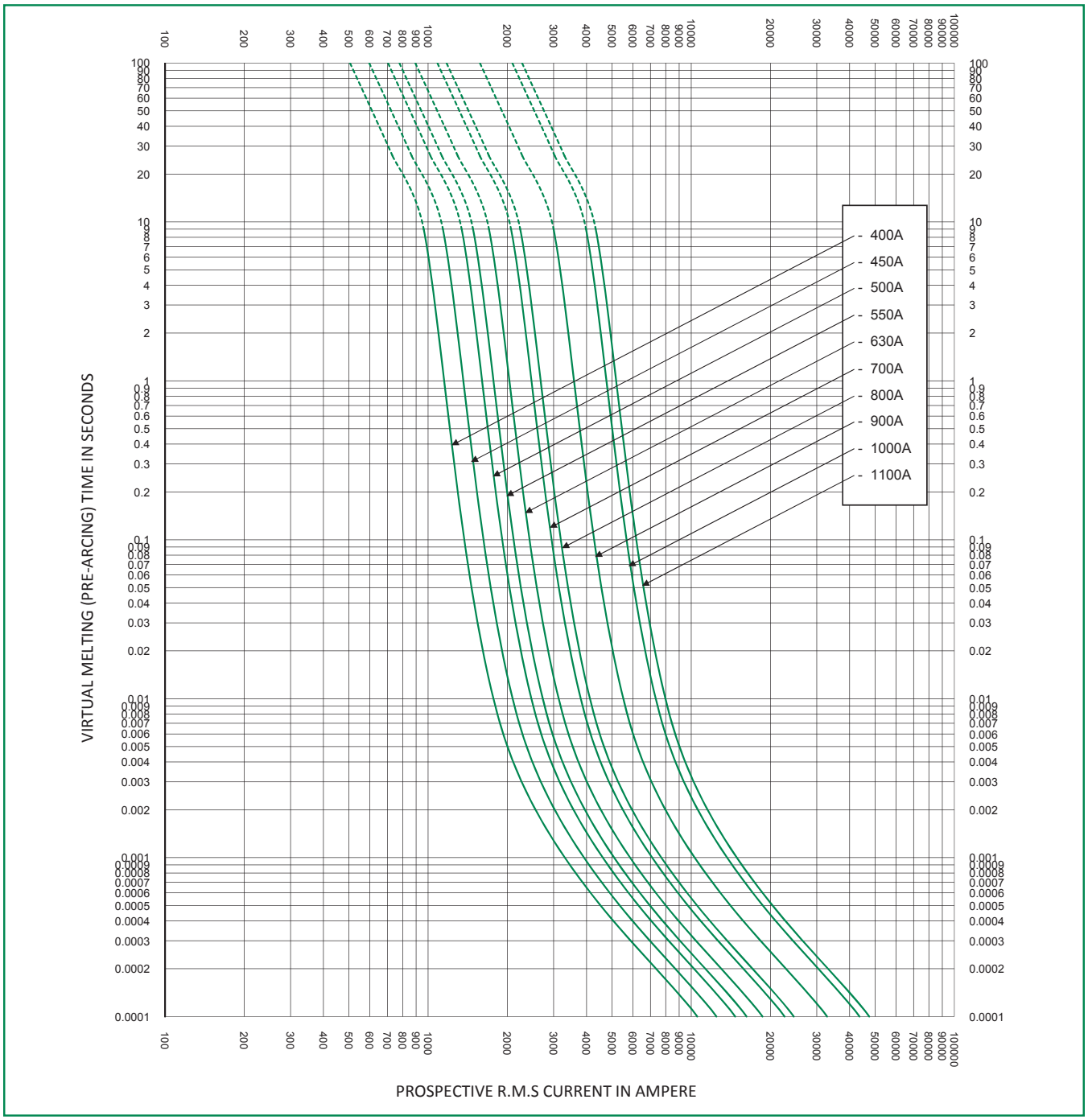
## Time Current Curve (32 Case Size)




* Dc minimum breaking capacity = 9 x Rated Current of Fuse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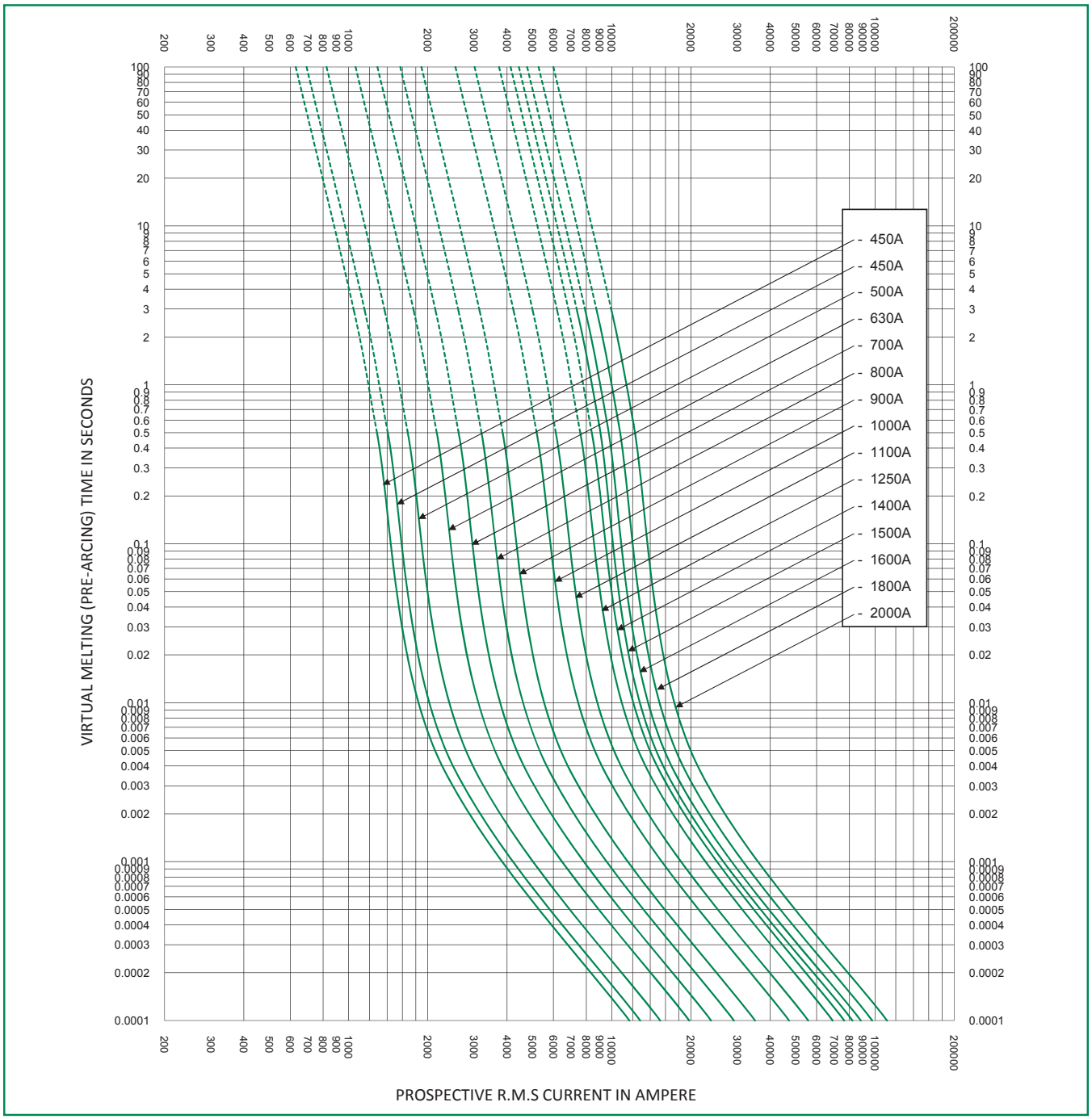
## Time Current Curve (33 Case Size)




* Dc minimum breaking capacity = 9 x Rated Current of Fuse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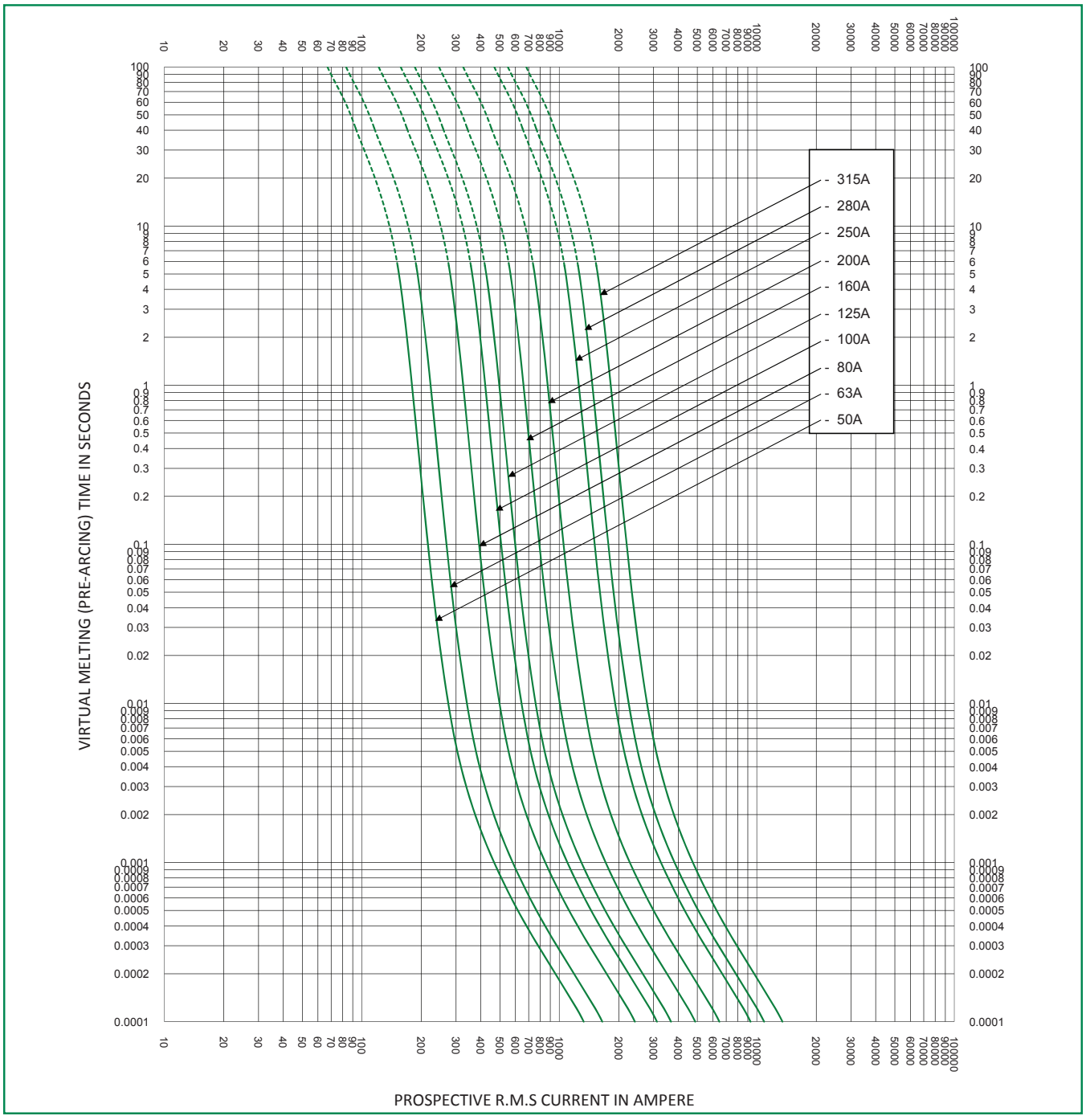
## Time Current Curve (70 Case Size)




* Dc minimum breaking capacity = 9 x Rated Current of Fuse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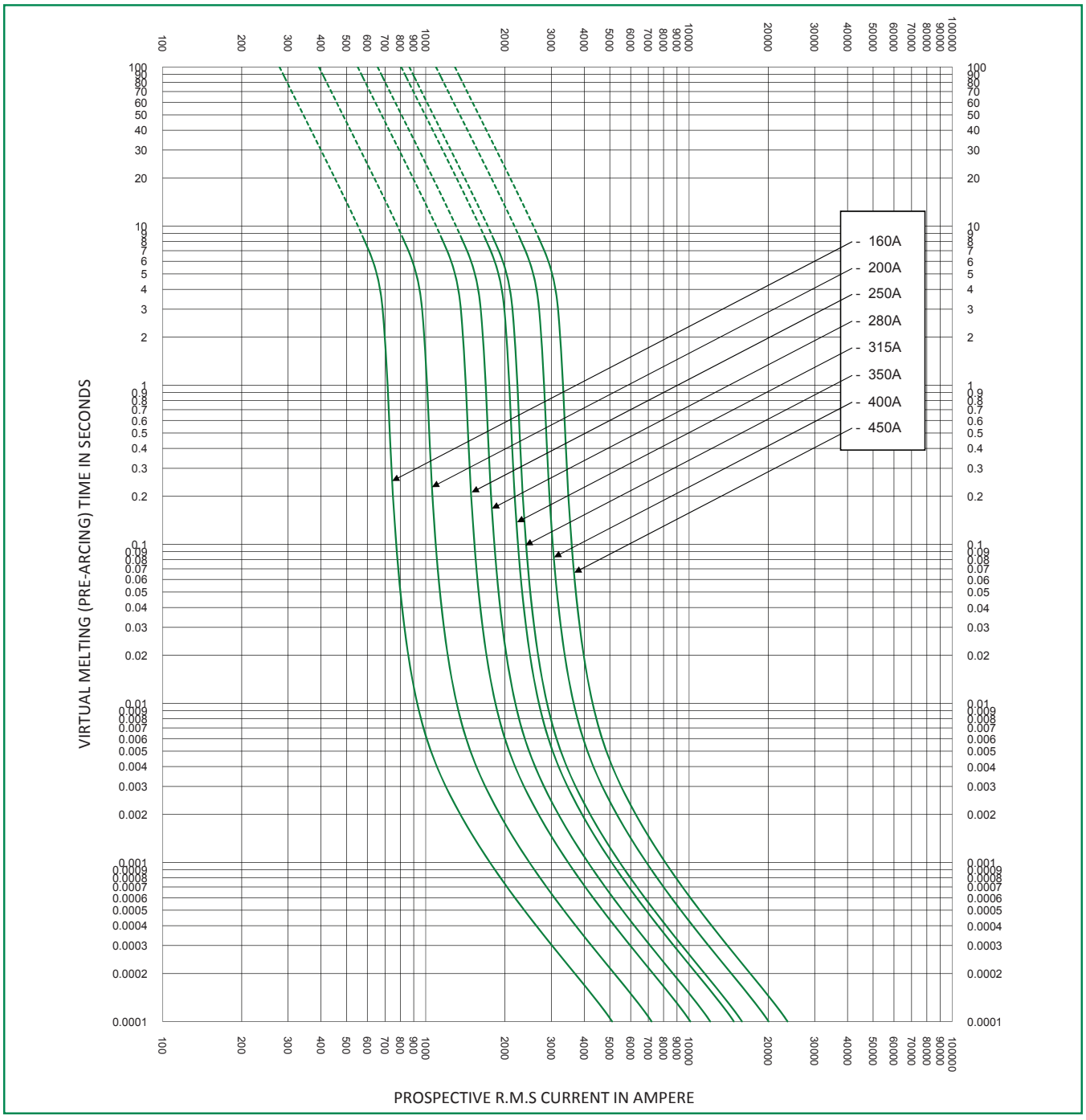
## Time Current Curve (71 Case Size)




* Dc minimum breaking capacity = 9 x Rated Current of Fuse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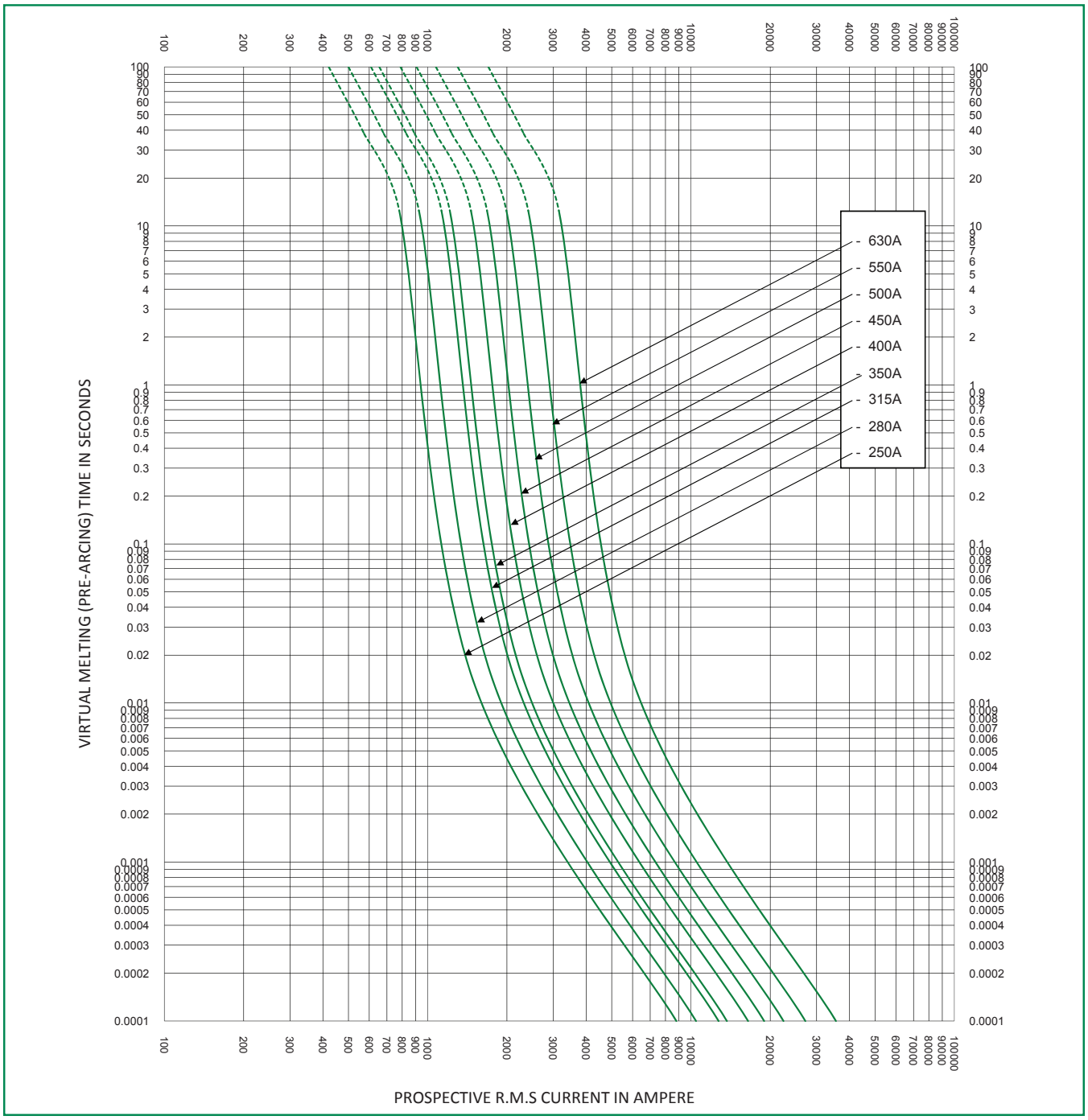
## Time Current Curve (72 Case Size)




* Dc minimum breaking capacity = 9 x Rated Current of Fuse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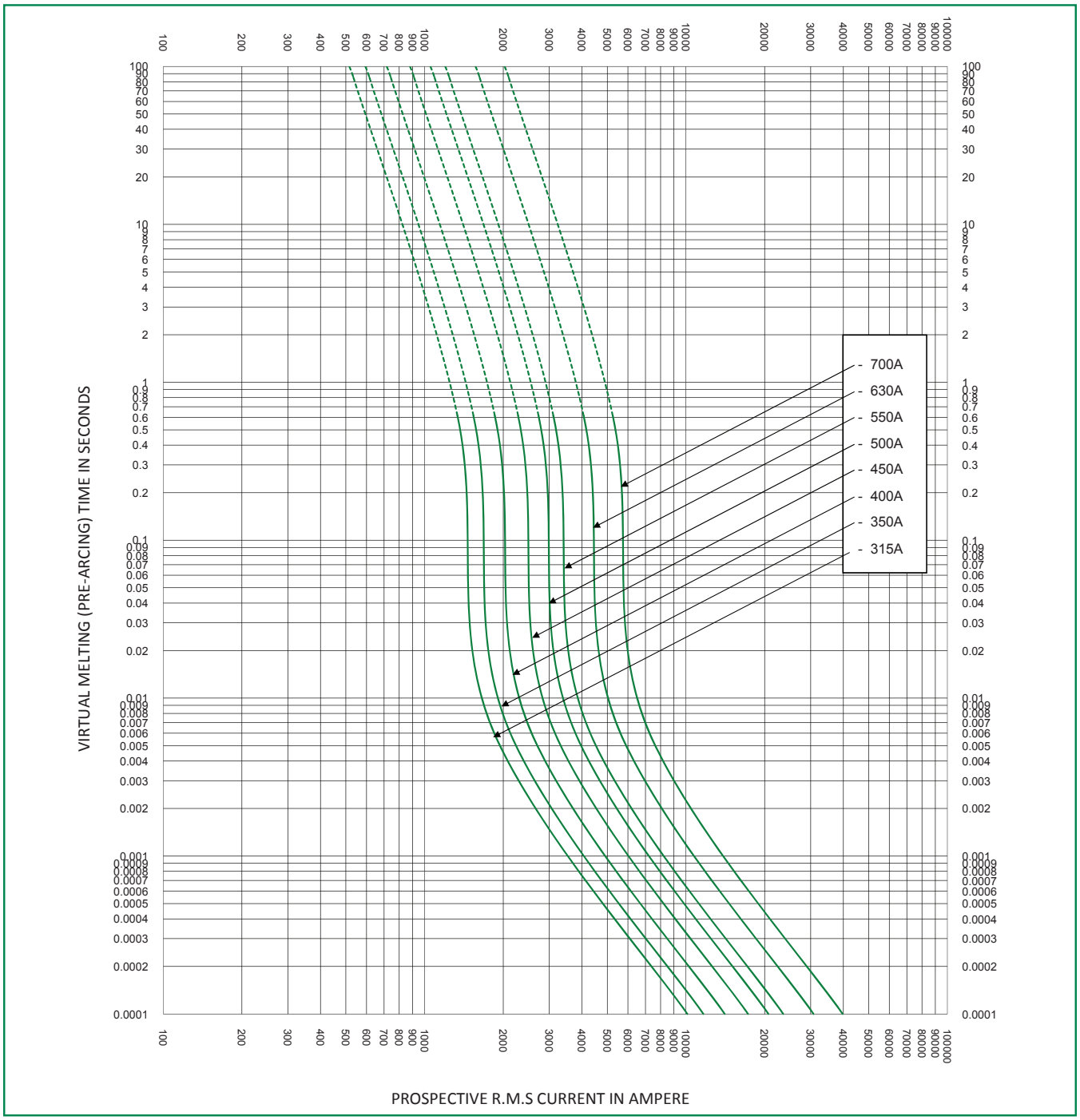
## Time Current Curve (73 Case Size)




* Dc minimum breaking capacity = 9 x Rated Current of Fuse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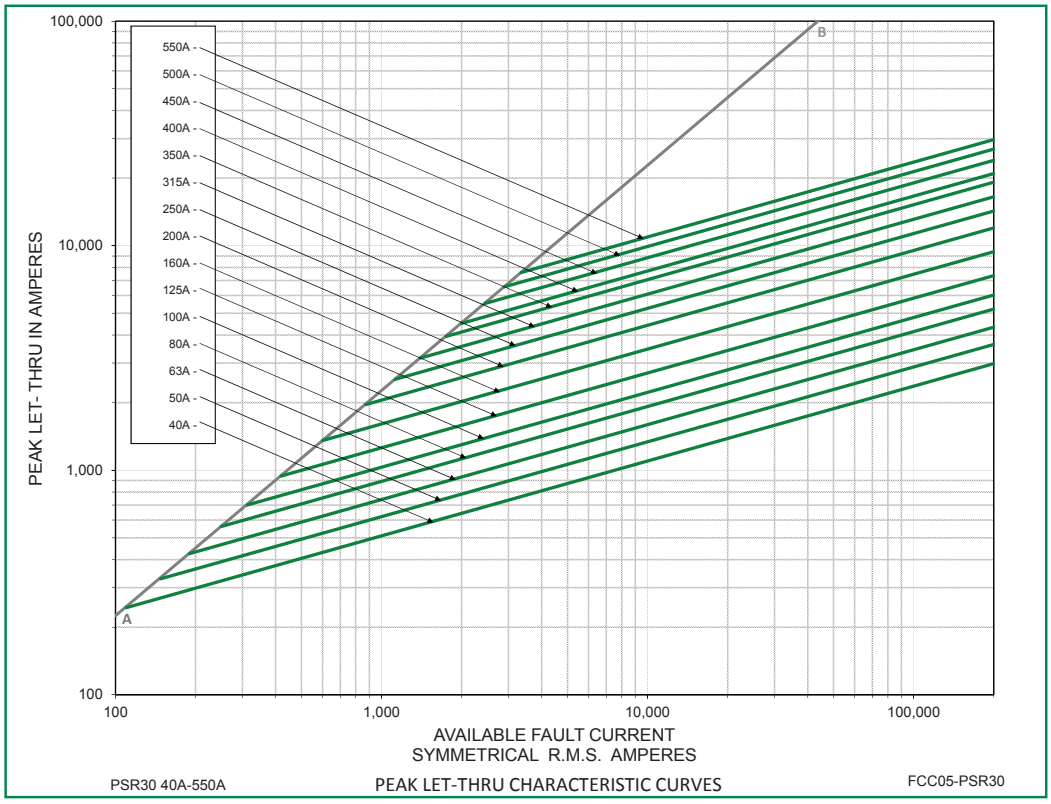
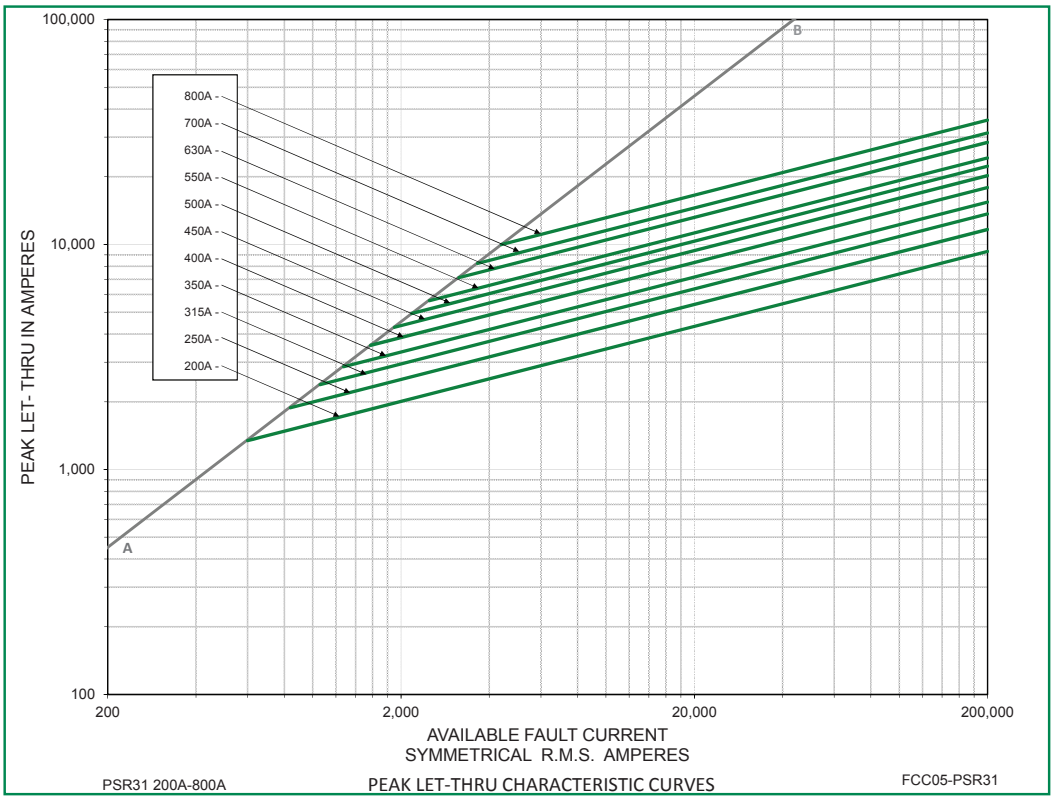
## Peak Let-Thru Curve (30 Case Size)




## Peak Let-Thru Curve (31 Case Size)





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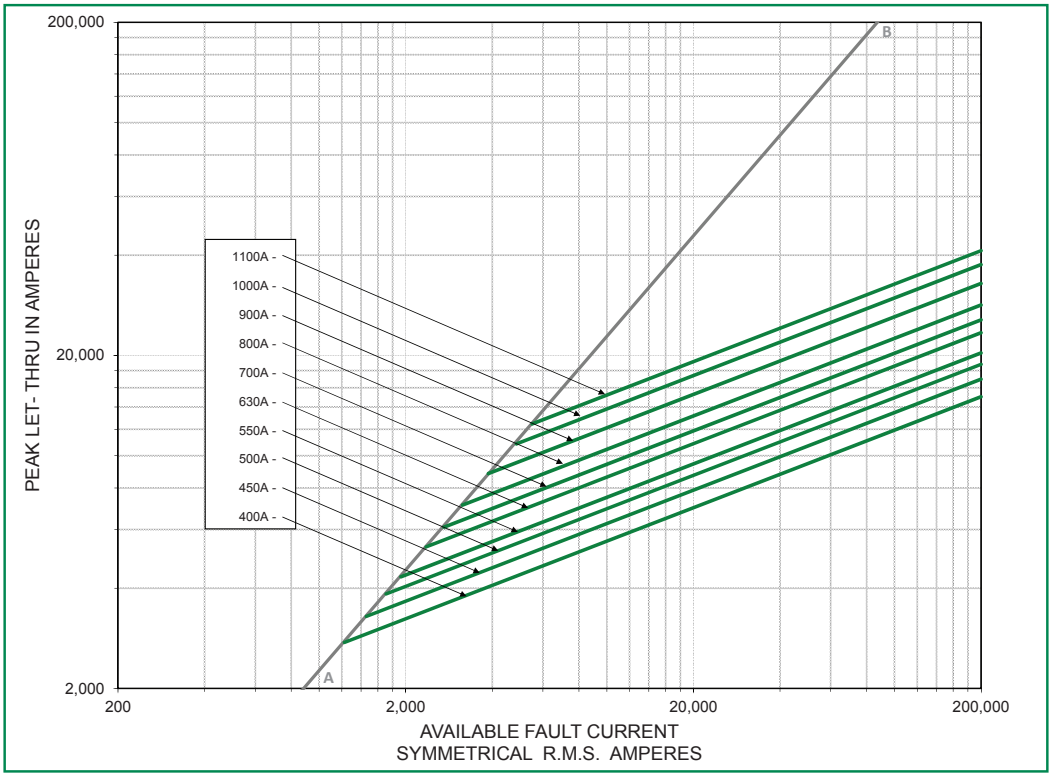
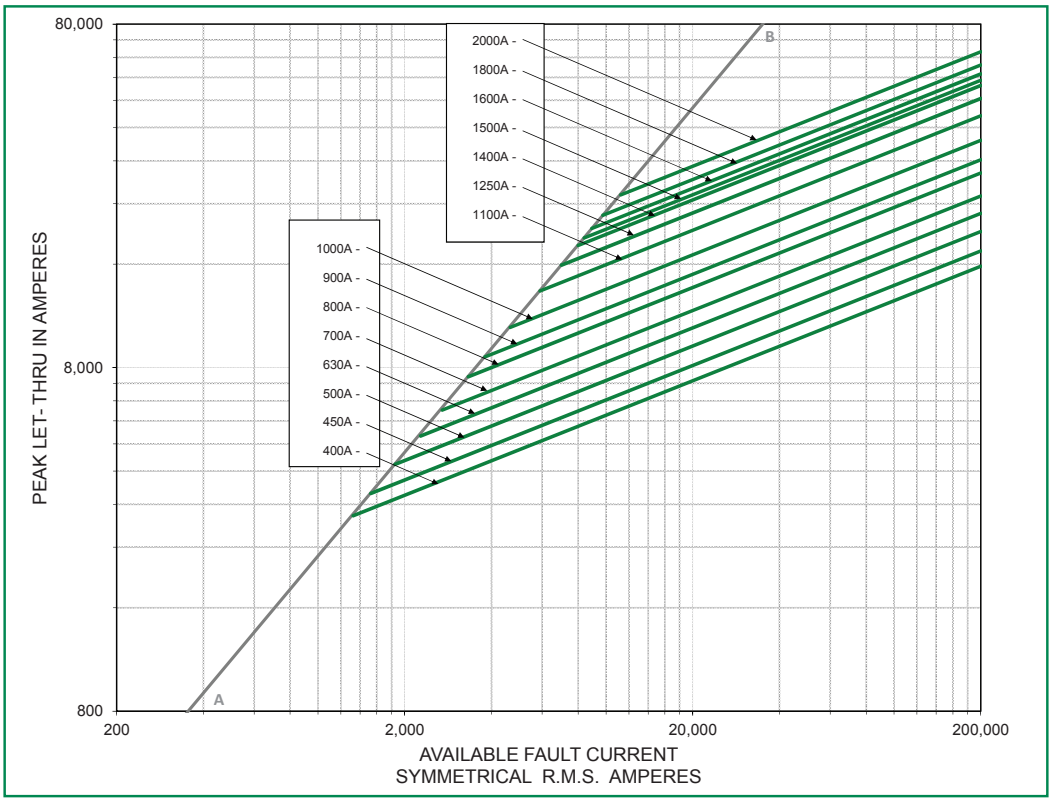
## Peak Let-Thru Curve (32 Case Size)




## Peak Let-Thru Curve (33 Case Size)





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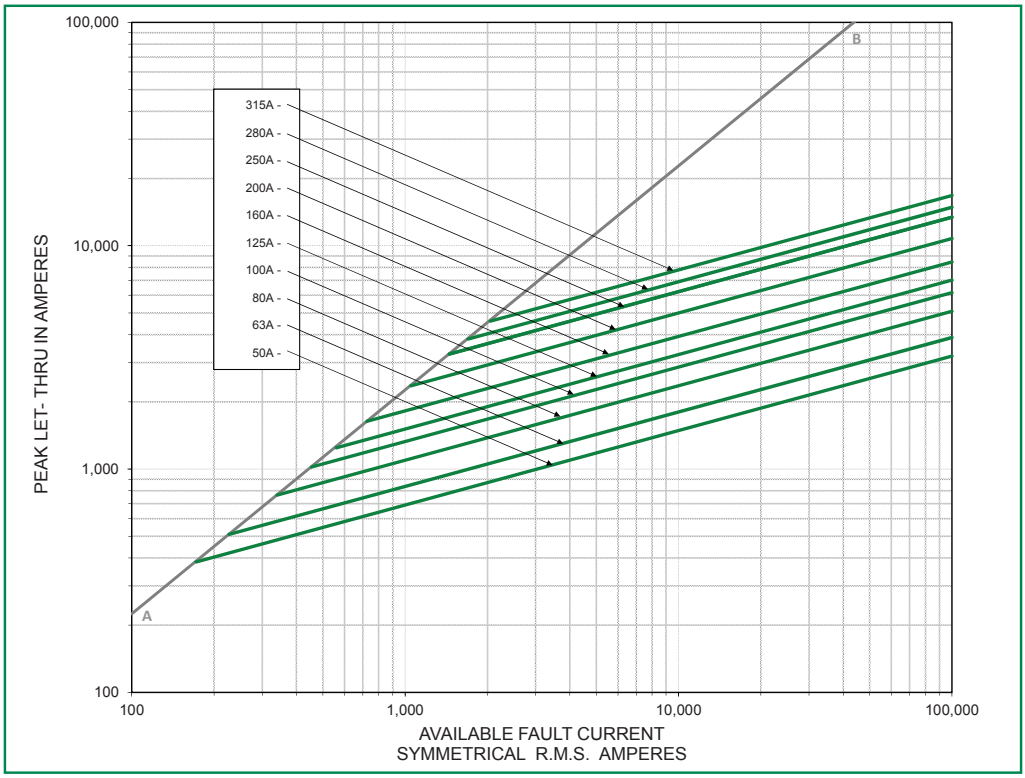
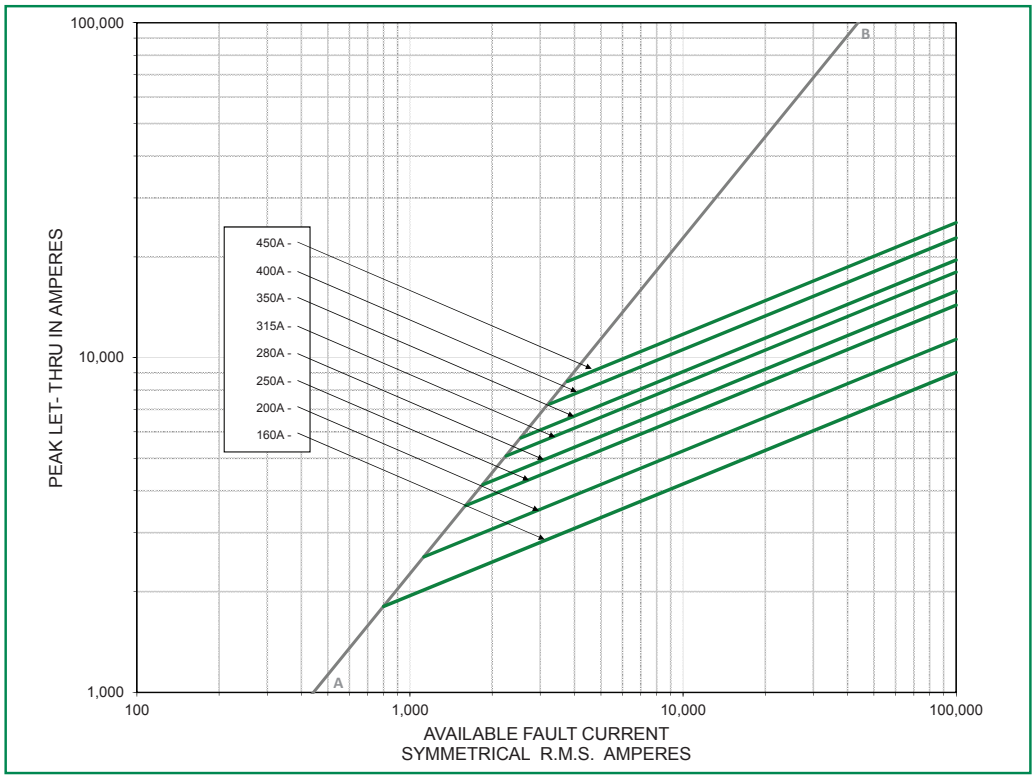
## Peak Let-Thru Curve (70 Case Size)




## Peak Let-Thru Curve (71 Case Size)





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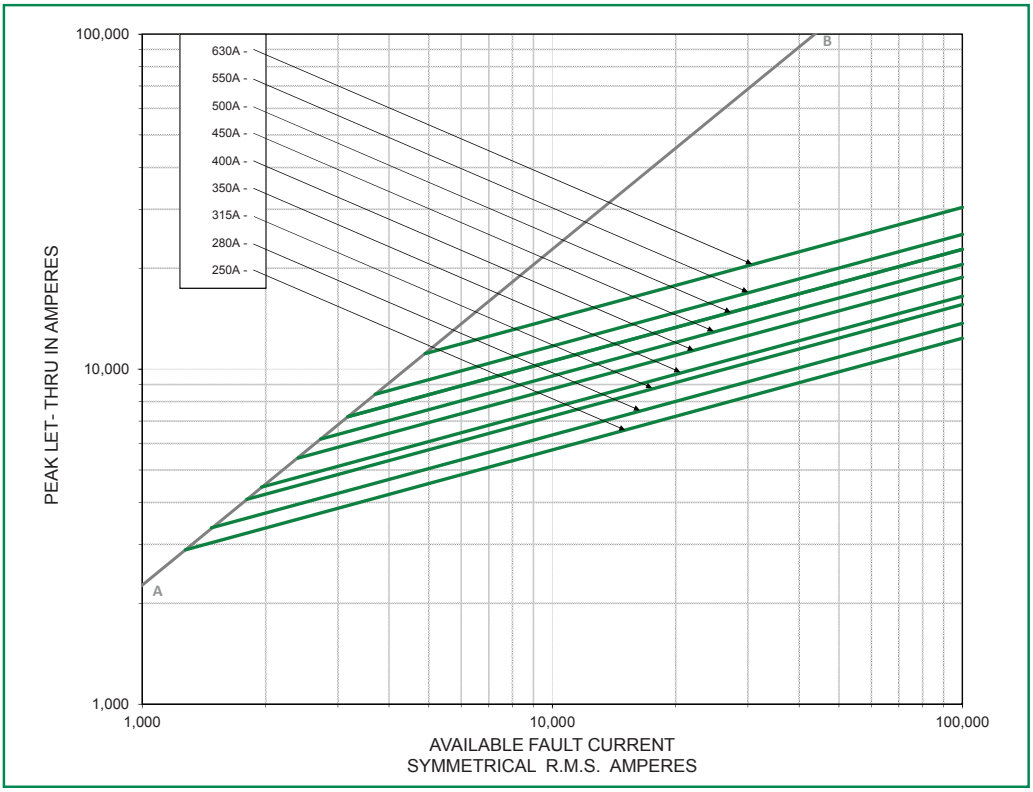
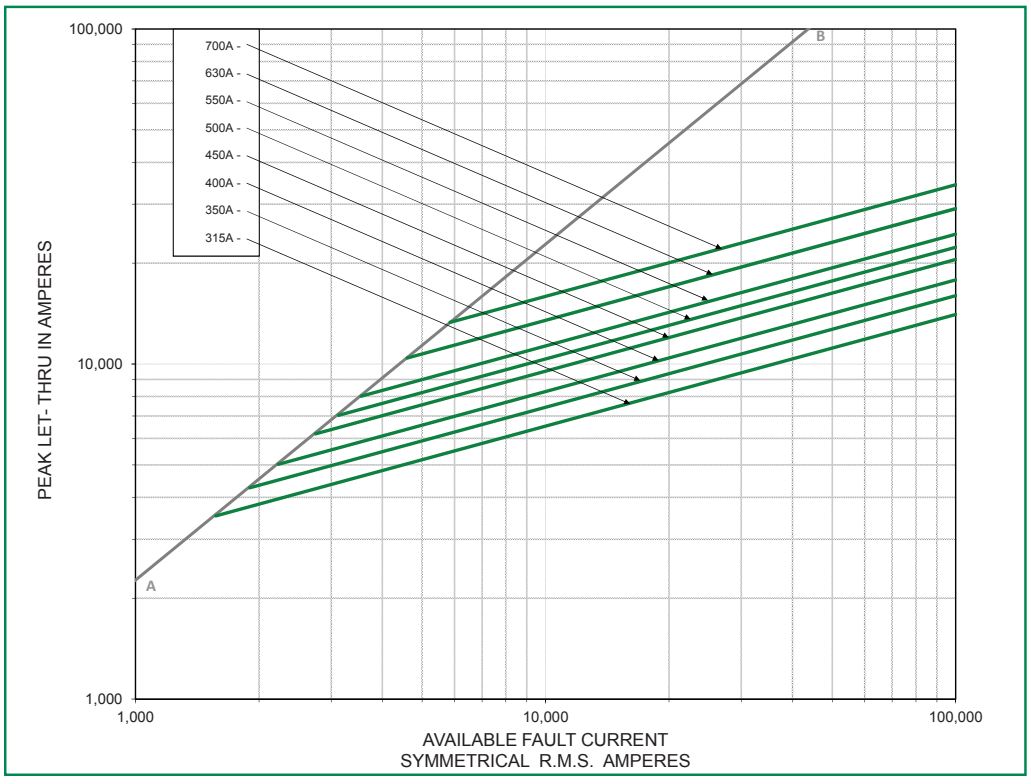
## Peak Let-Thru Curve (72 Case Size)




## Peak Let-Thru Curve (73 Case Size)





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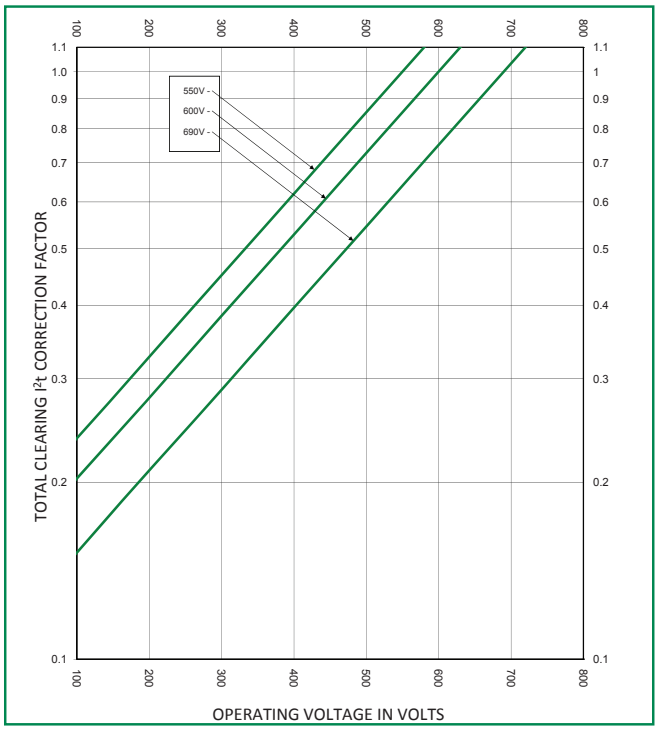
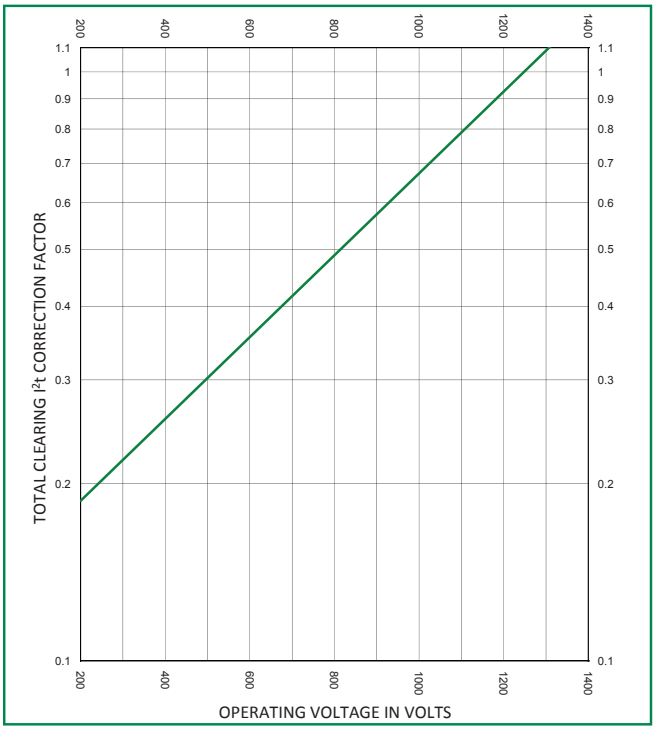
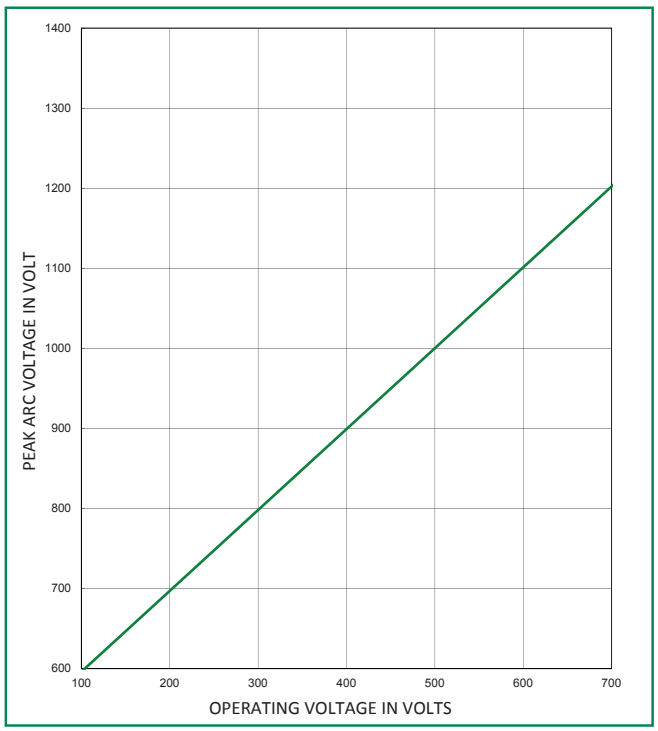
## Total Clearing I²t Correction Factor Curve
Case Size (30, 31, 32 and 33)



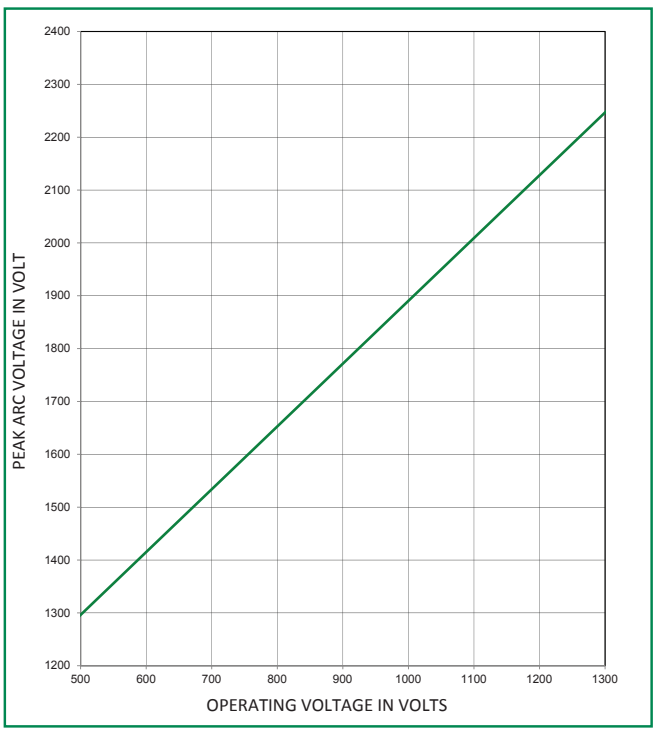

## Total Clearing I²t Correction Factor Curve
Case Size (70, 71, 72, and 73)




## Peak Arc Voltage Curve
Case Size (30, 31, 32 and 33)




## Peak Arc Voltage Curve
Case Size (70, 71, 72, and 73)





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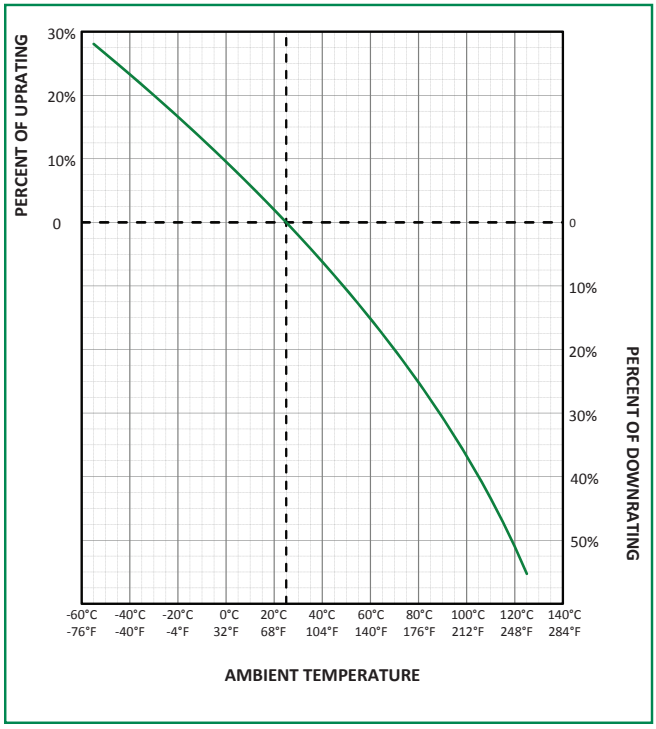
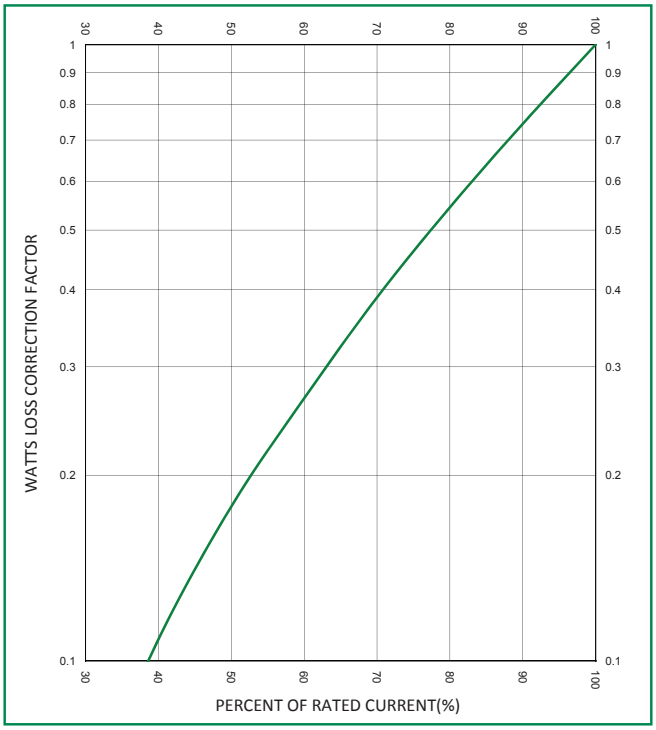
## Temperature Derating Curve

(temperature of air immediately surrounding fuse)




## Watts Loss Correction Factor Curve





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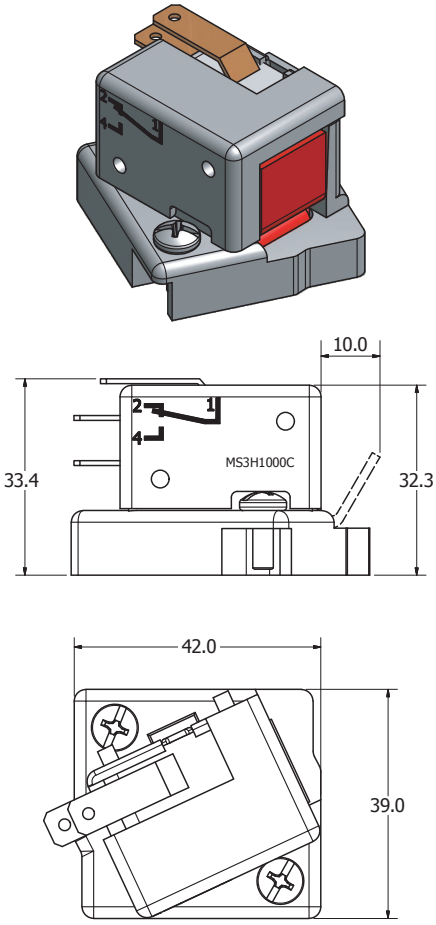
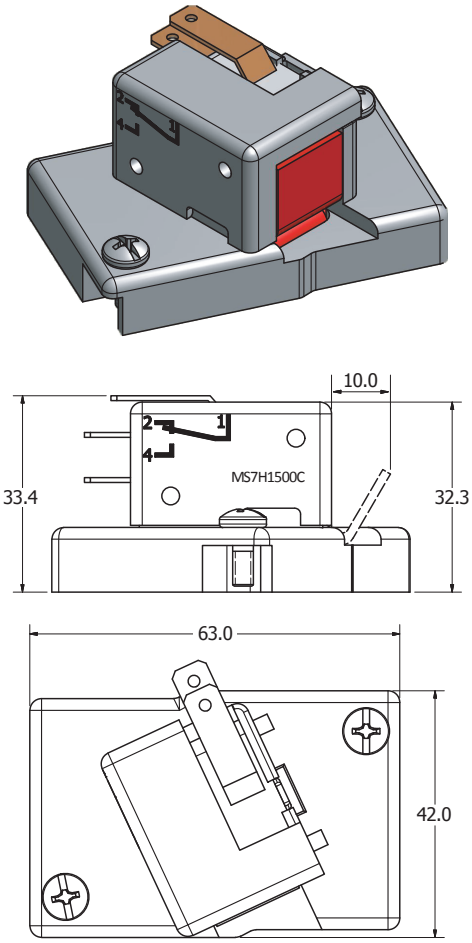
## Microswitch
### [Dimensions in millimeters]

**MS3H1000C**
**Document Number:** OL-MS3H1000C Rev. B




**MS7H1500C**
**Document Number:** OL-MS7H1500C Rev. B




## Electrical Characteristics

| CATALOG NUMBER/ ORDERING NUMBER | INDICATING STYLE | INSULATION VOLTAGE RATING (VAC) | FUSE CASE SIZE | POSITIVE OPERATING MIN VOLTAGE / MIN CURRENT | INTERRUPTING RATING | | | | | | | OPERATING TEMP. | RELATIVE HUMIDITY | PACK QUANTITY |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | CURRENT | NON-INDUCTIVE LOAD | | | INDUCTIVE LOAD (DC L/R=25 ms) | | | | | |
| | | | | | | 30 V | 110 V | 250 V | 30 V | 110 V | 250 V | | | |
| MS3H1000C* | Standard NO-NC | 1000 | 30, 31, 32, 33 | 4 V / 1mA | ac (50/60 Hz) | 5 A | 5 A | 5 A | 5 A | 5 A | 4 A | -60 °C to +125 °C | 95 % | 3 pcs/bag |
| | | | | | dc | 5 A | 0.6 A | 0.3 A | 3 A | 0.2 A | 0.1 A | | | |
| MS7H1500C* | Standard NO-NC | 1500 | 70, 71, 72, 73 | | ac (50/60 Hz) | 5 A | 5 A | 5 A | 5 A | 5 A | 4 A | -60 °C to +125 °C | 95 % | 3 pcs/bag |
| | | | | | dc | 5 A | 0.6 A | 0.3 A | 3 A | 0.2 A | 0.1 A | | | |

* Contains internal microswitch (Part Number: U83161.8), listed under UL File: E42016.

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LifeElectronics
Живое партнерство

**ООО «ЛайфЭлектроникс»** **“LifeElectronics” LLC**

*ИНН 7805602321 КПП 780501001 Р/С 40702810122510004610 ФАКБ "АБСОЛЮТ БАНК" (ЗАО) в г.Санкт-Петербурге К/С 30101810900000000703 БИК 044030703*

*Компания «Life Electronics» занимается поставками электронных компонентов импортного и отечественного производства от производителей и со складов крупных дистрибьюторов Европы, Америки и Азии.*

*С конца 2013 года компания активно расширяет линейку поставок компонентов по направлению коаксиальный кабель, кварцевые генераторы и конденсаторы (керамические, пленочные, электролитические), за счёт заключения дистрибьюторских договоров*

*Мы предлагаем:*

- *Конкурентоспособные цены и скидки постоянным клиентам.*
- *Специальные условия для постоянных клиентов.*
- *Подбор аналогов.*
- *Поставку компонентов в любых объемах, удовлетворяющих вашим потребностям.*

- *Приемлемые сроки поставки, возможна ускоренная поставка.*
- *Доставку товара в любую точку России и стран СНГ.*
- *Комплексную поставку.*
- *Работу по проектам и поставку образцов.*
- *Формирование склада под заказчика.*

- *Сертификаты соответствия на поставляемую продукцию (по желанию клиента).*
- *Тестирование поставляемой продукции.*
- *Поставку компонентов, требующих военную и космическую приемку.*
- *Входной контроль качества.*
- *Наличие сертификата ISO.*

*В составе нашей компании организован Конструкторский отдел, призванный помогать разработчикам, и инженерам.*

*Конструкторский отдел помогает осуществить:*

- *Регистрацию проекта у производителя компонентов.*
- *Техническую поддержку проекта.*
- *Защиту от снятия компонента с производства.*
- *Оценку стоимости проекта по компонентам.*
- *Изготовление тестовой платы монтаж и пусконаладочные работы.*

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