# 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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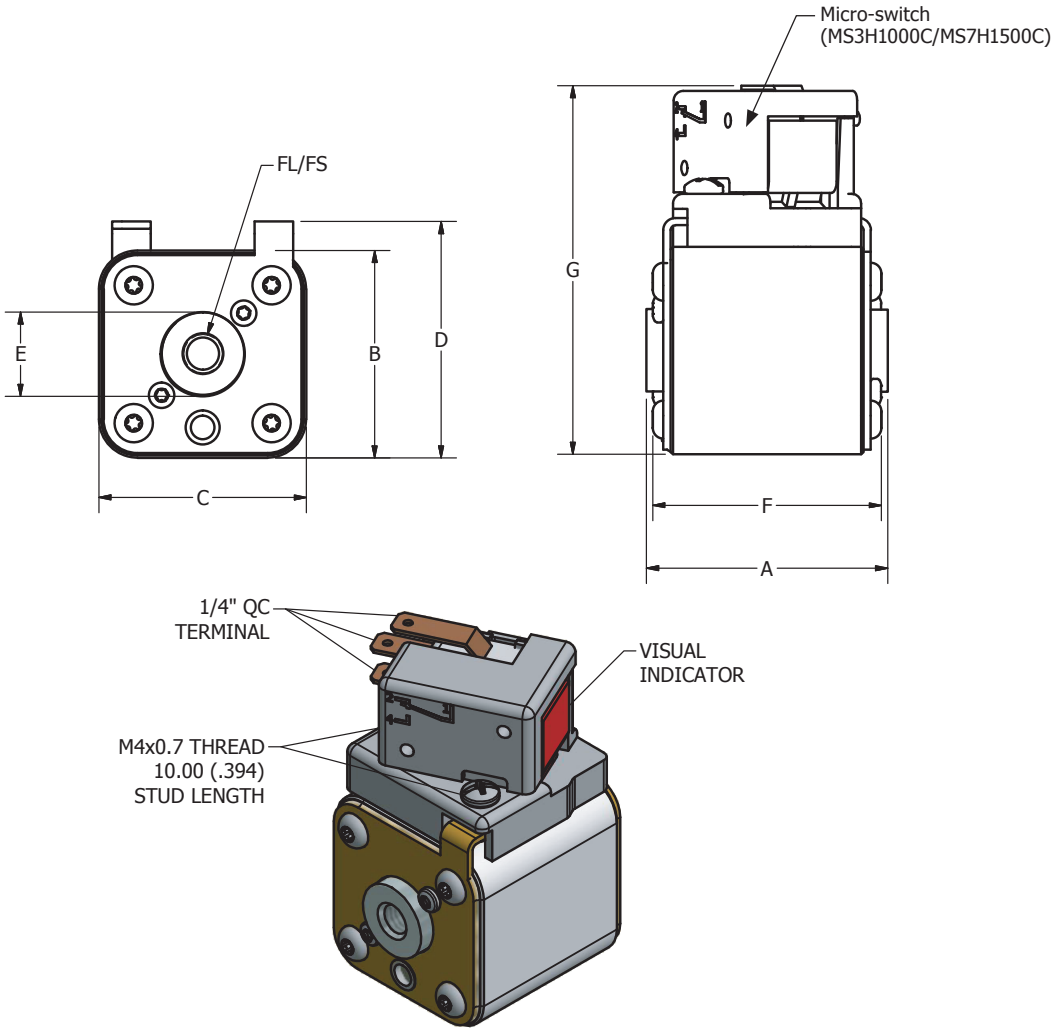
## Dimensions




| 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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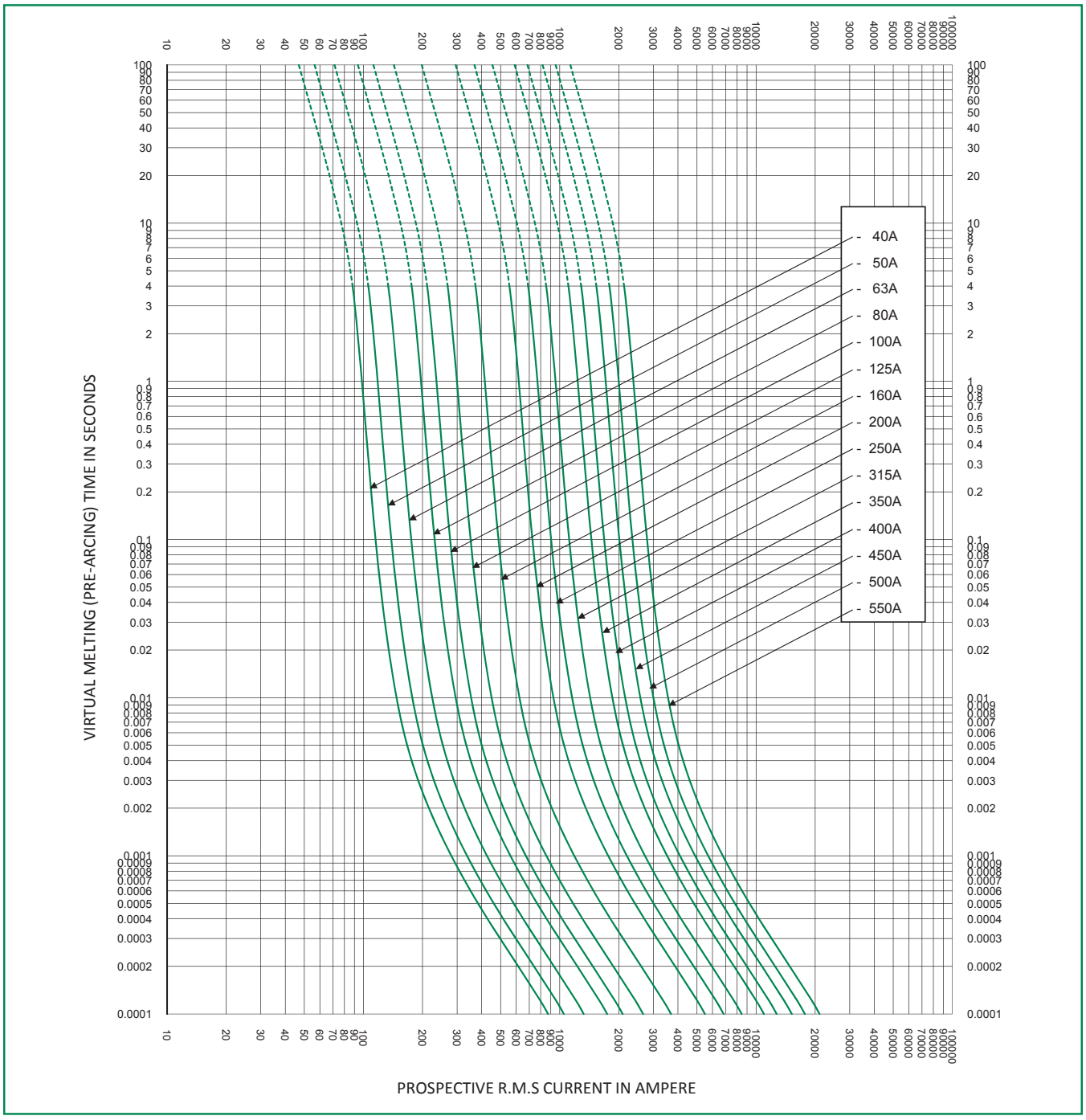
## Time Current Curve (30 Case Size)




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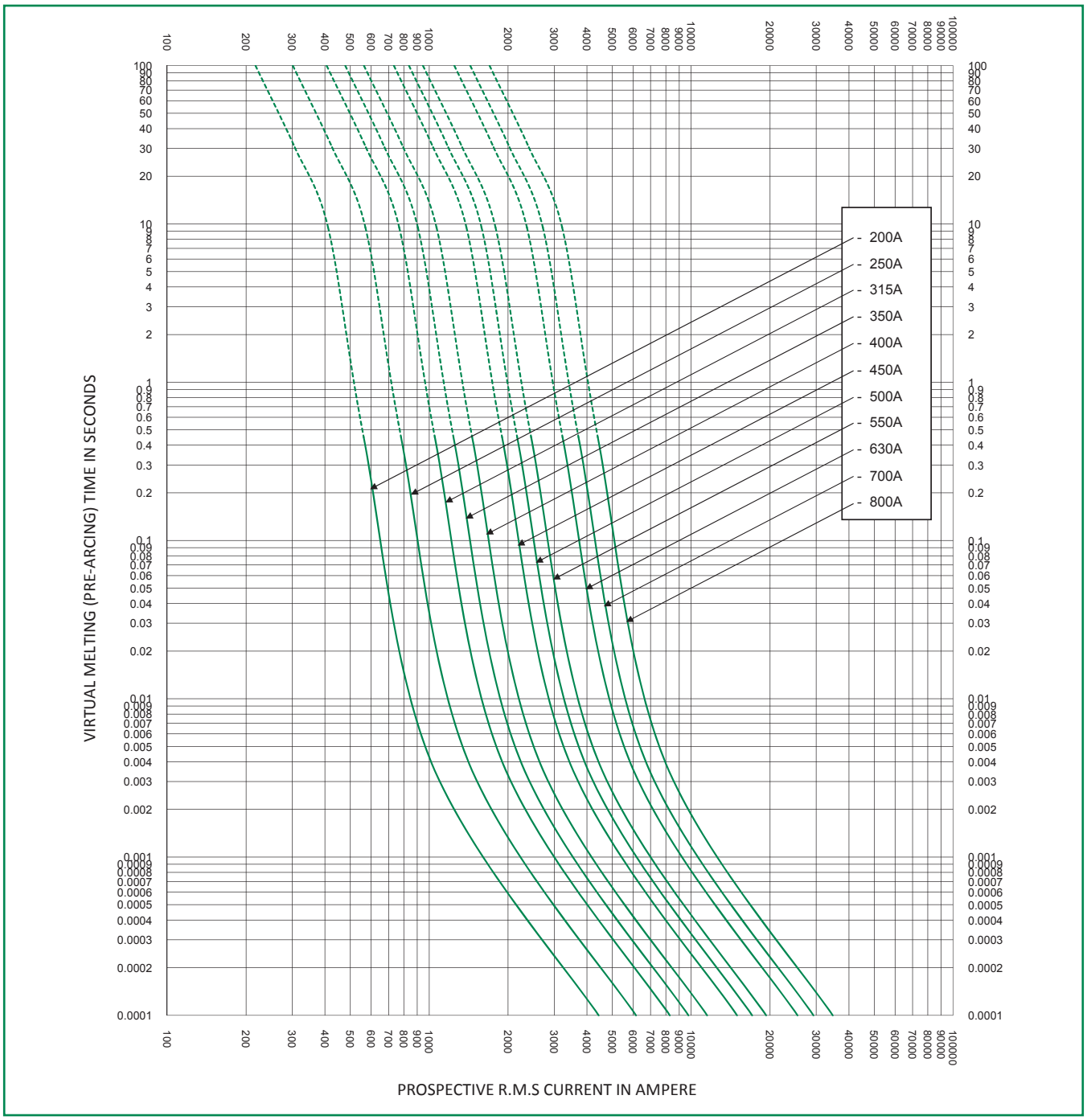
## Time Current Curve (31 Case Size)




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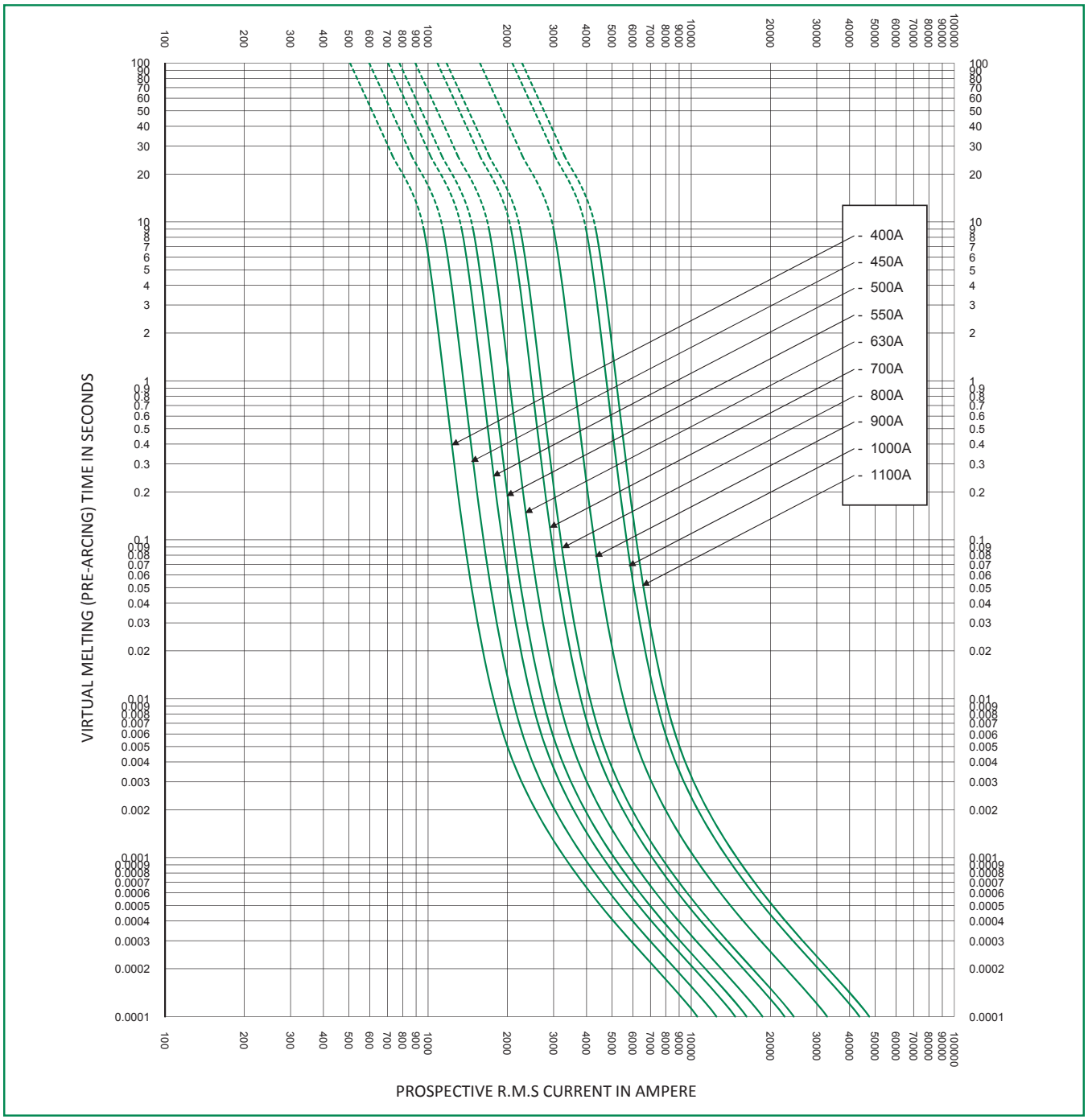
## Time Current Curve (32 Case Size)




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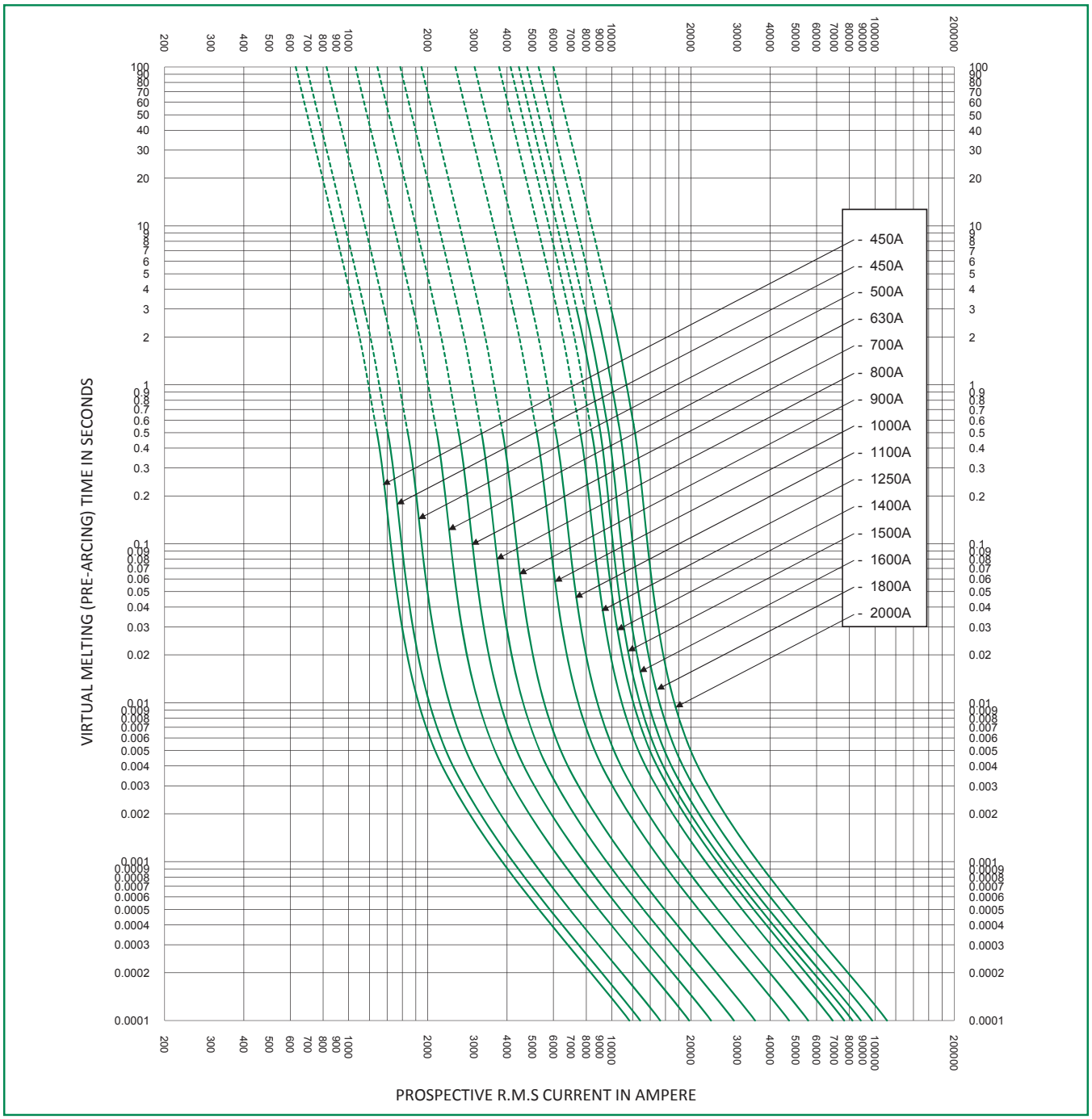
## Time Current Curve (33 Case Size)




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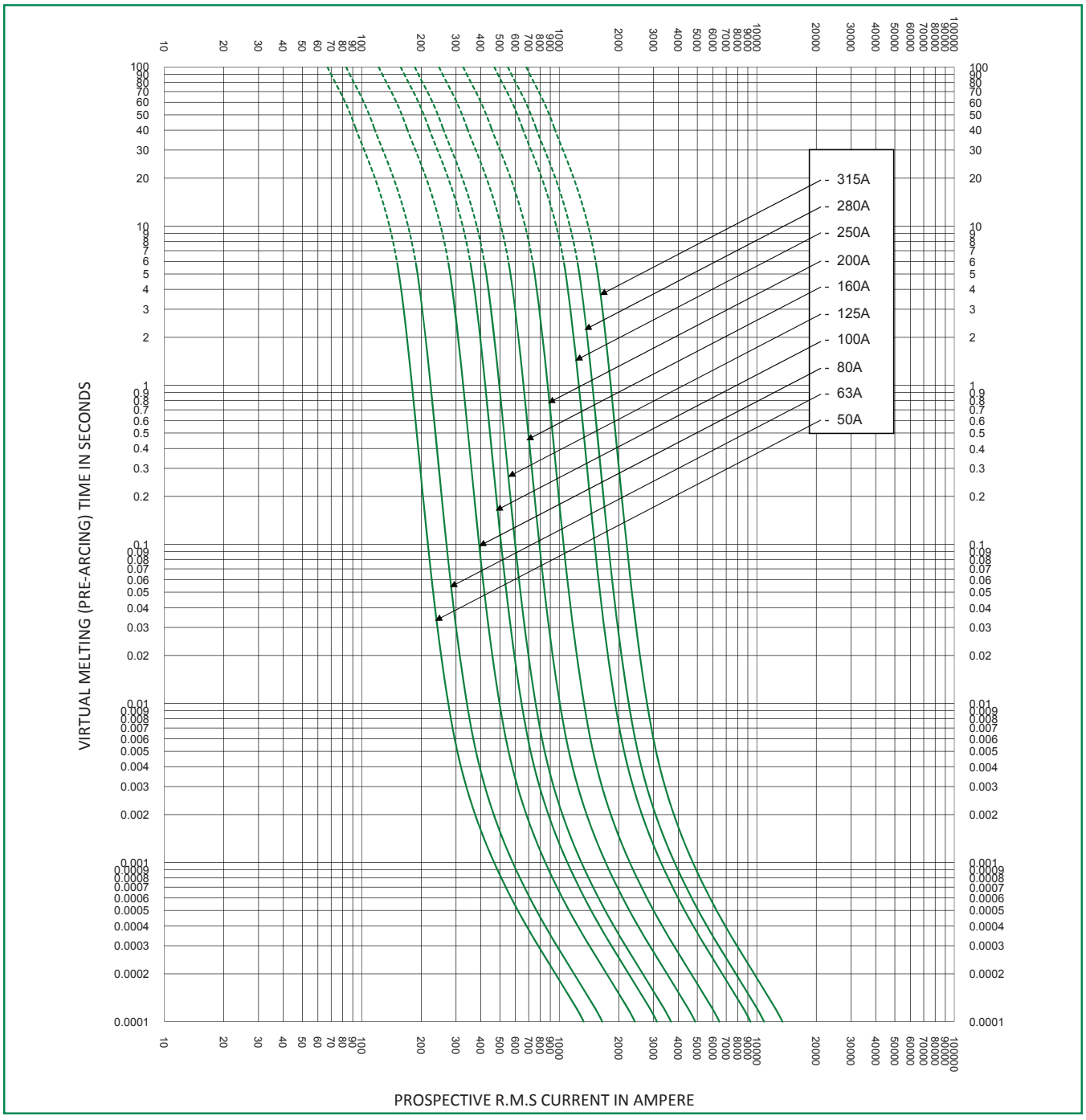
## Time Current Curve (70 Case Size)




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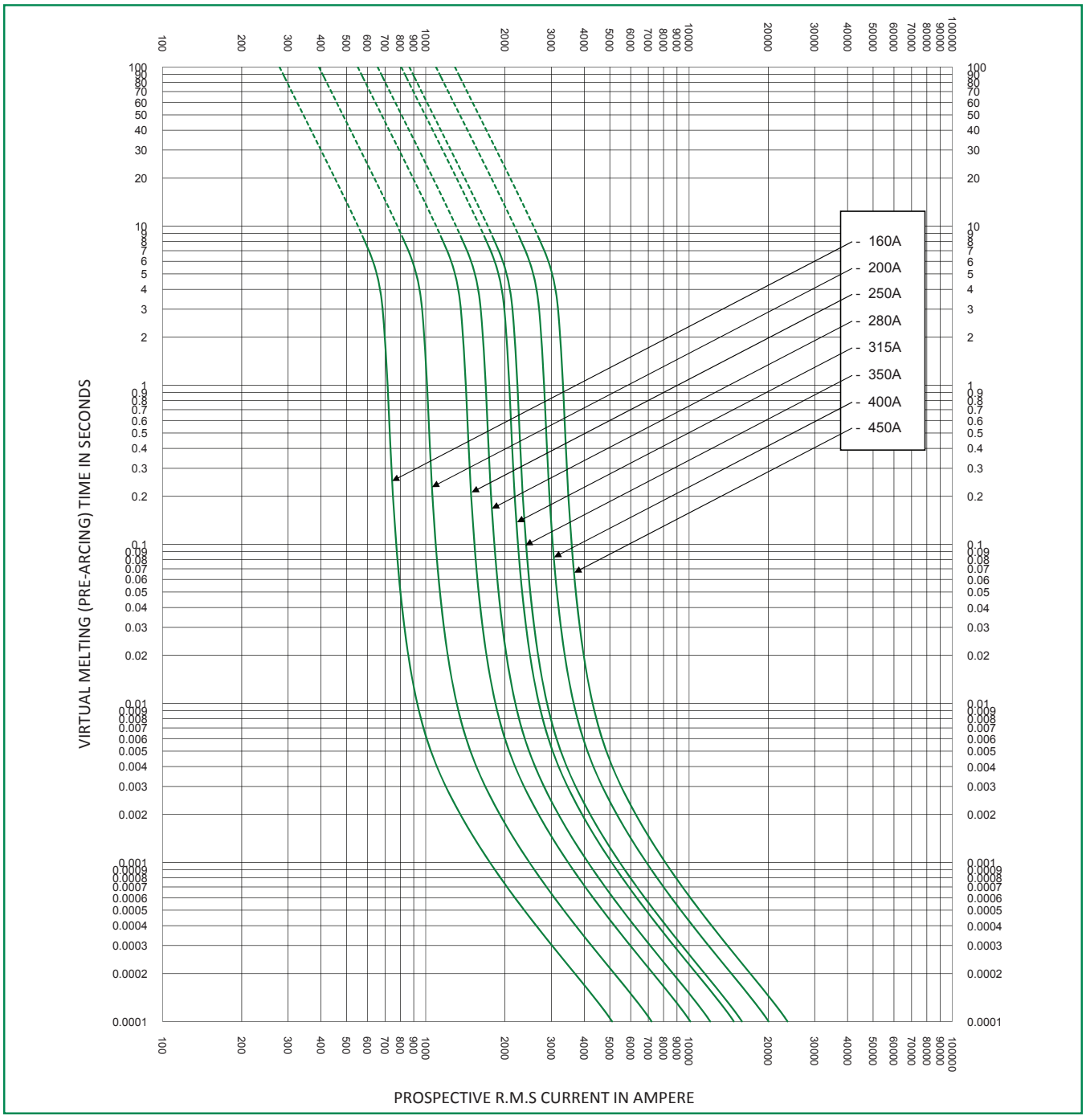
## Time Current Curve (71 Case Size)




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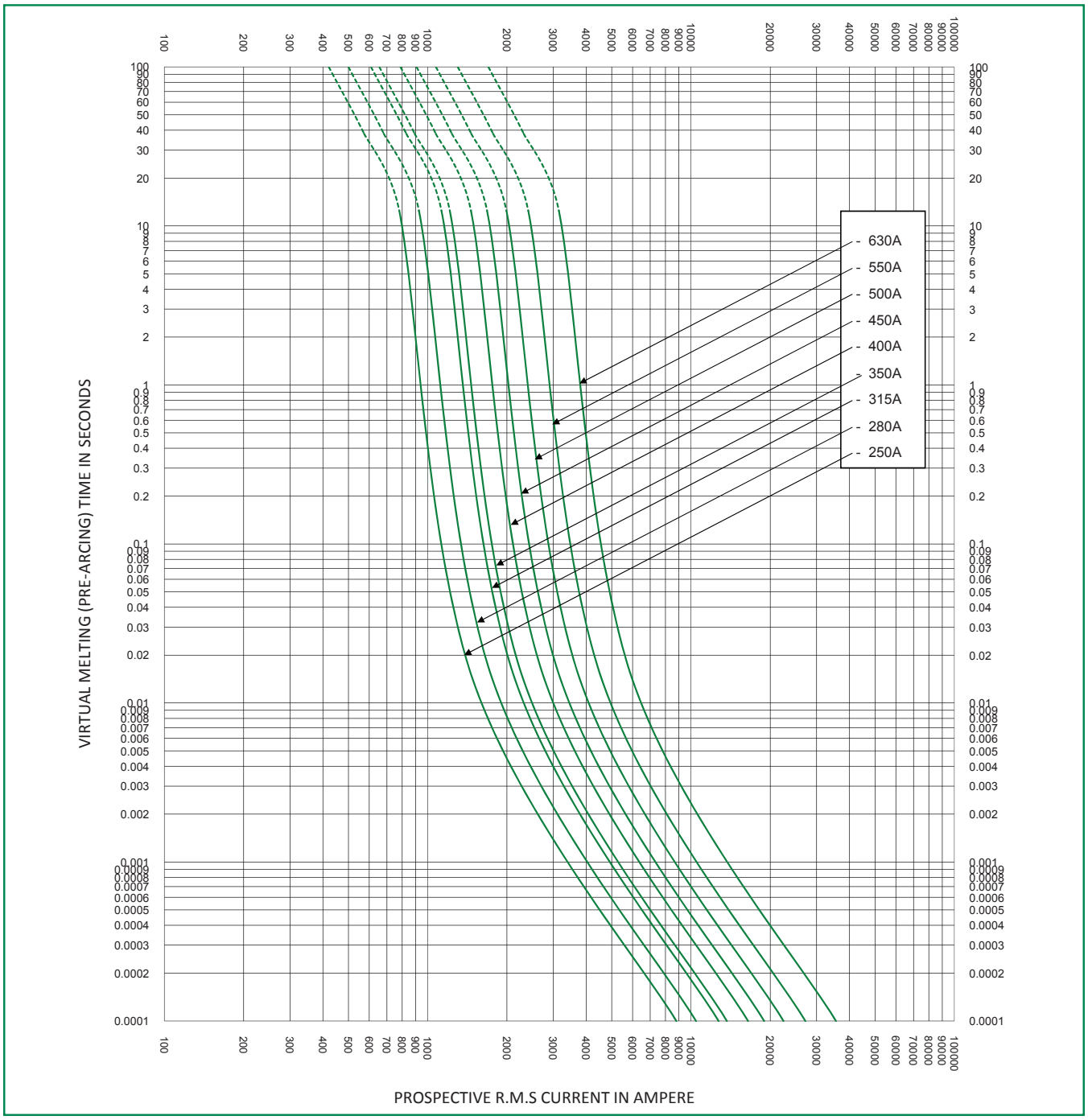
## Time Current Curve (72 Case Size)




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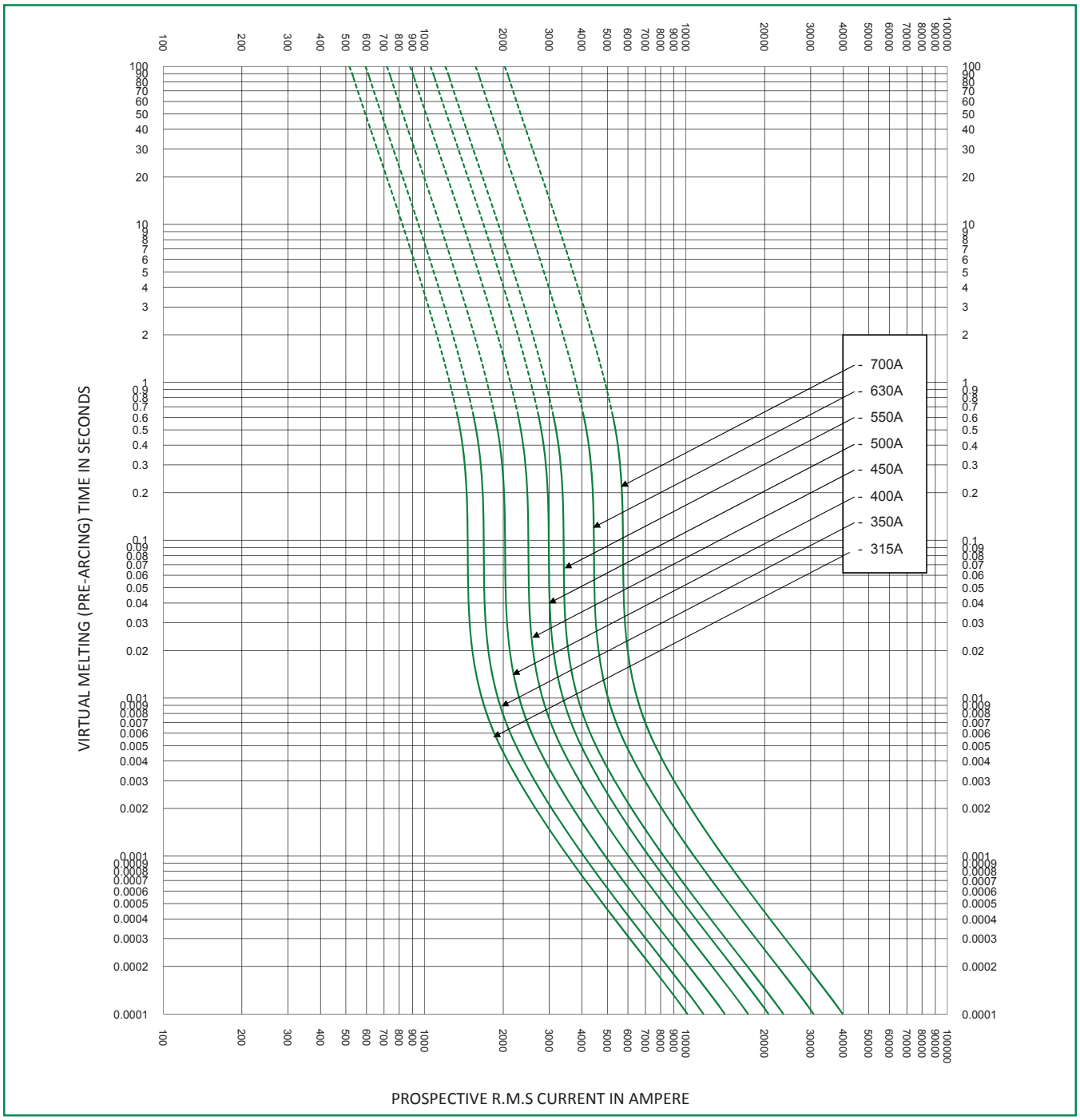
## Time Current Curve (73 Case Size)




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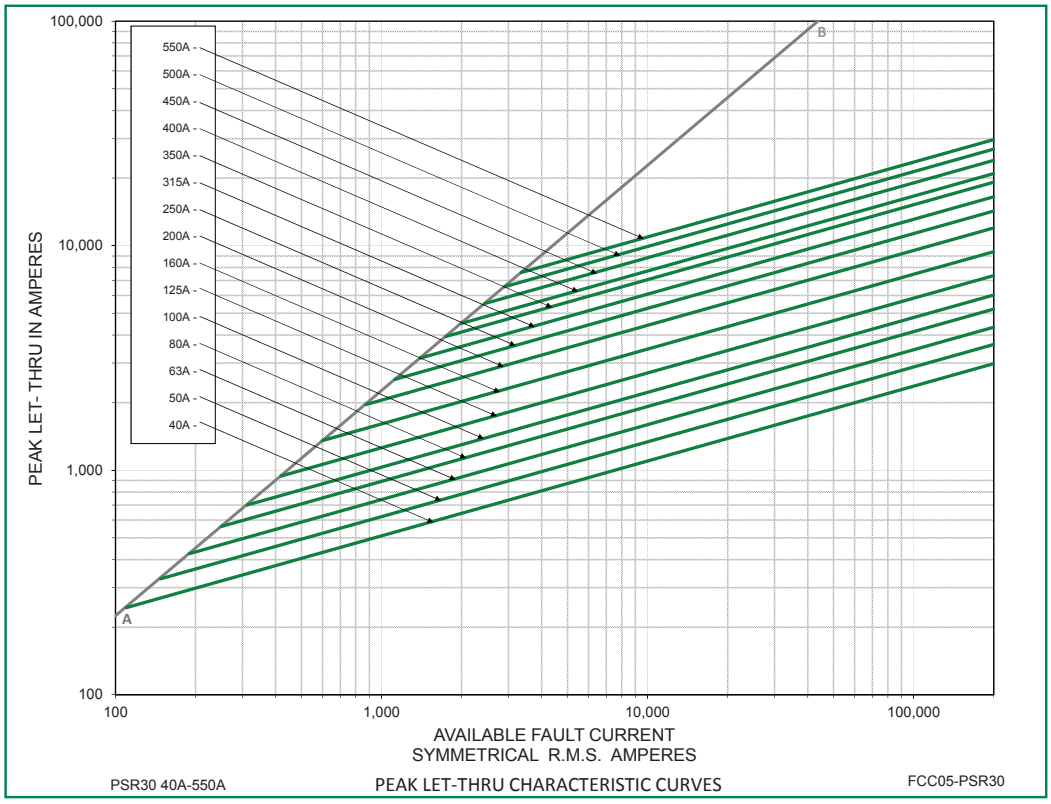
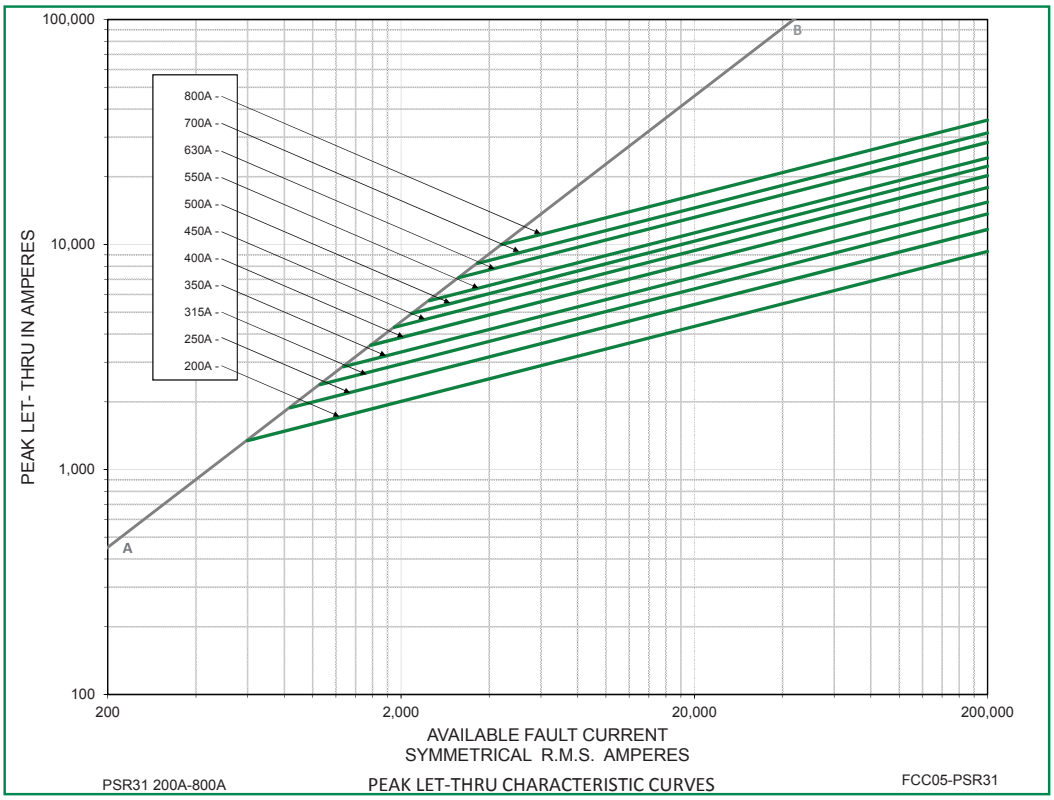
## Peak Let-Thru Curve (30 Case Size)




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





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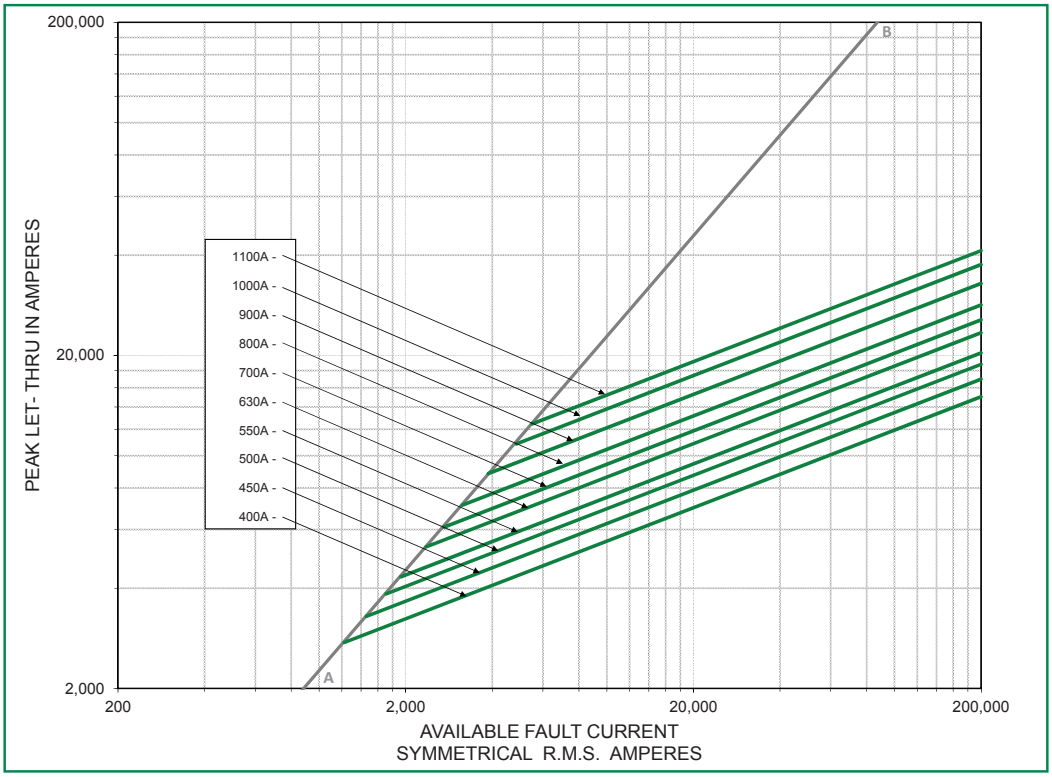
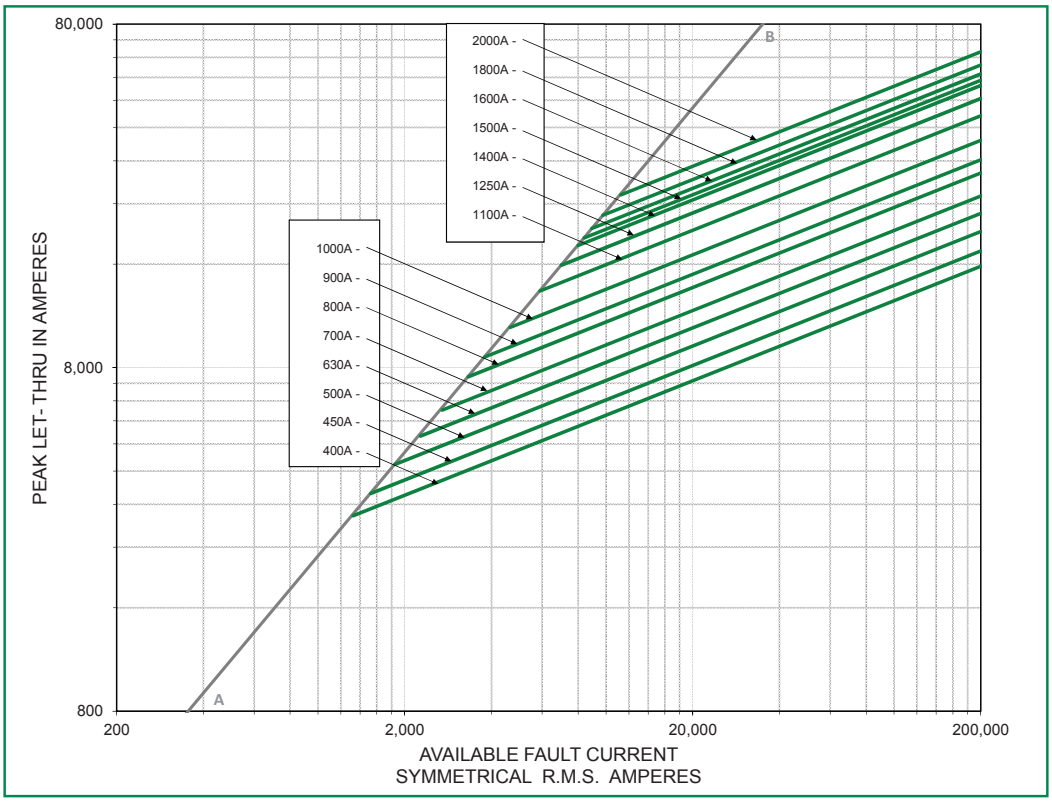
## Peak Let-Thru Curve (32 Case Size)




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





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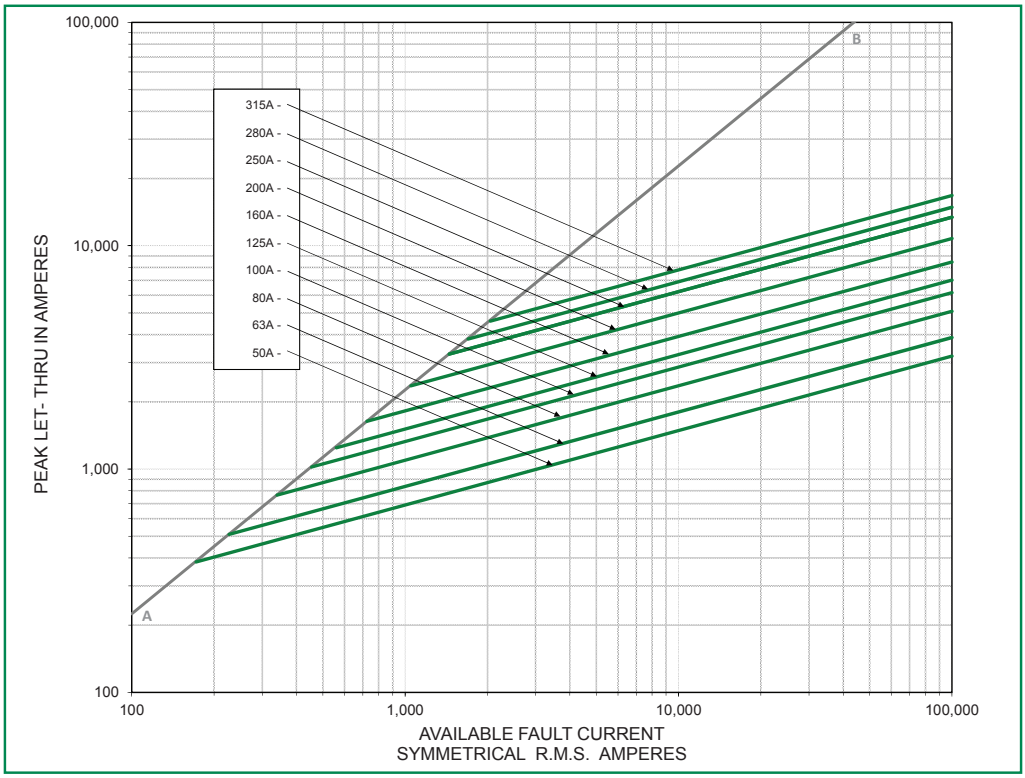
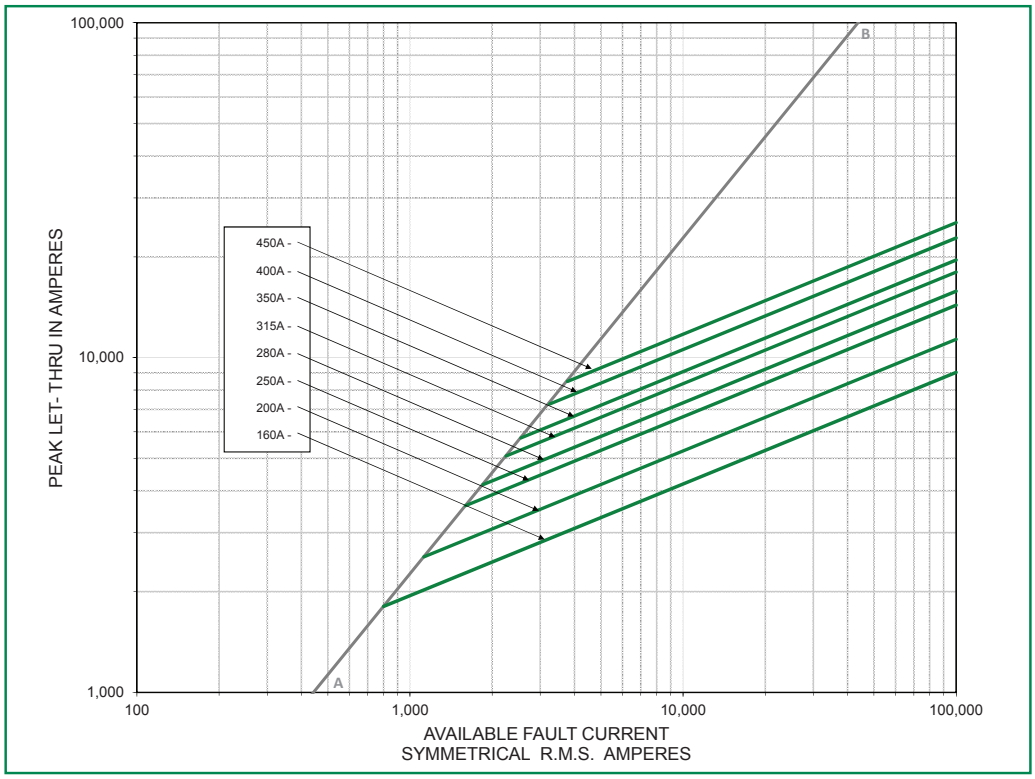
## Peak Let-Thru Curve (70 Case Size)




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





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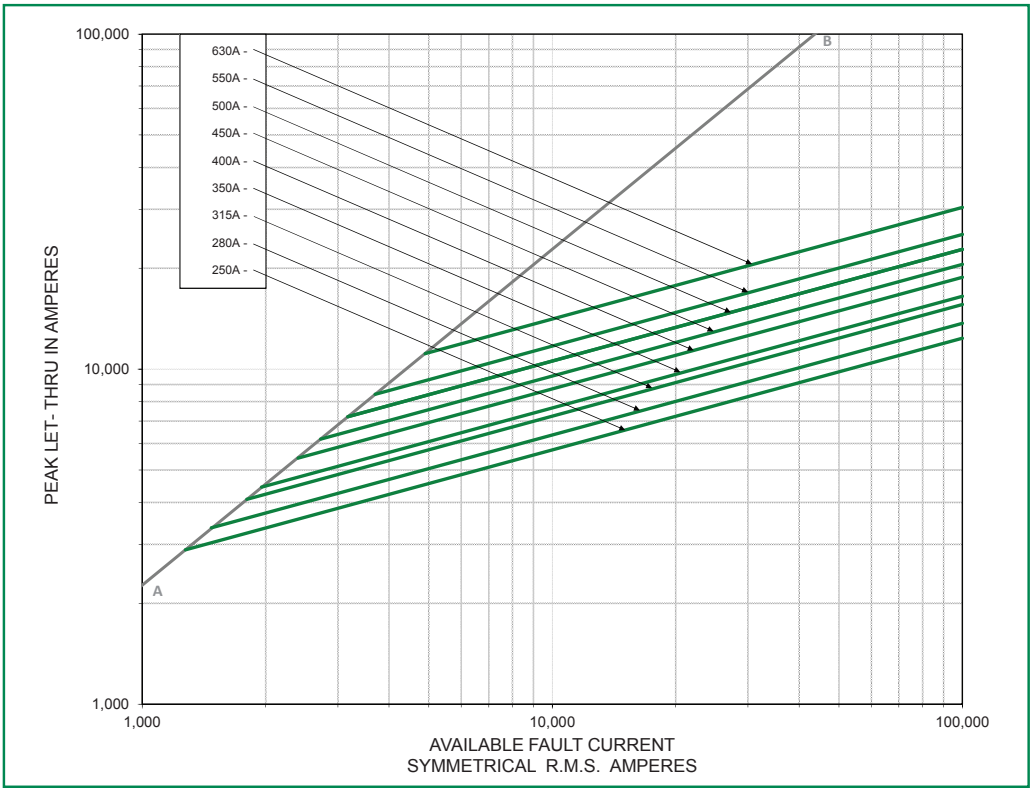
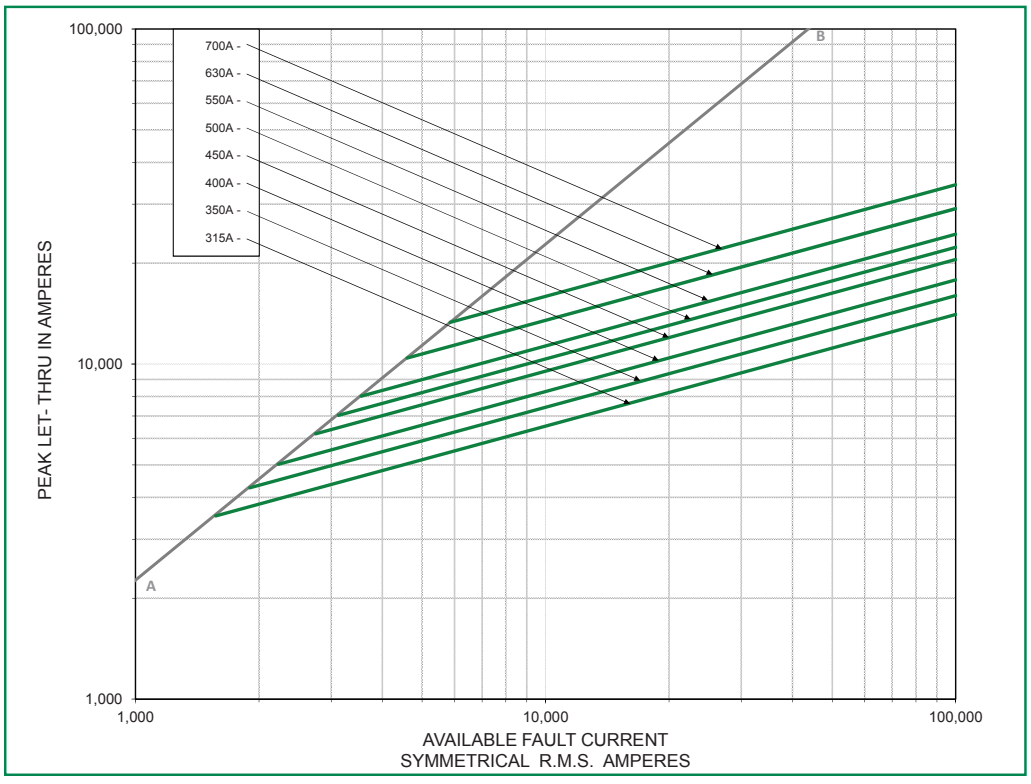
## Peak Let-Thru Curve (72 Case Size)




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





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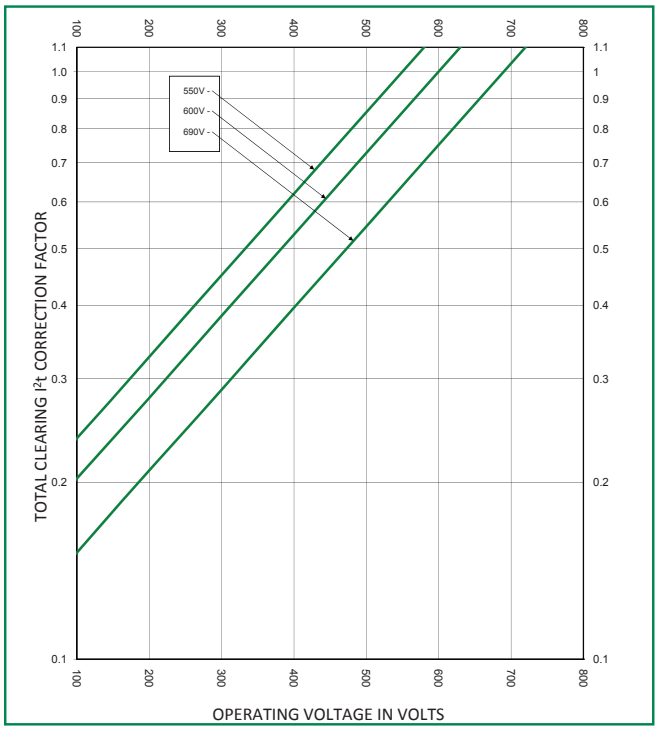
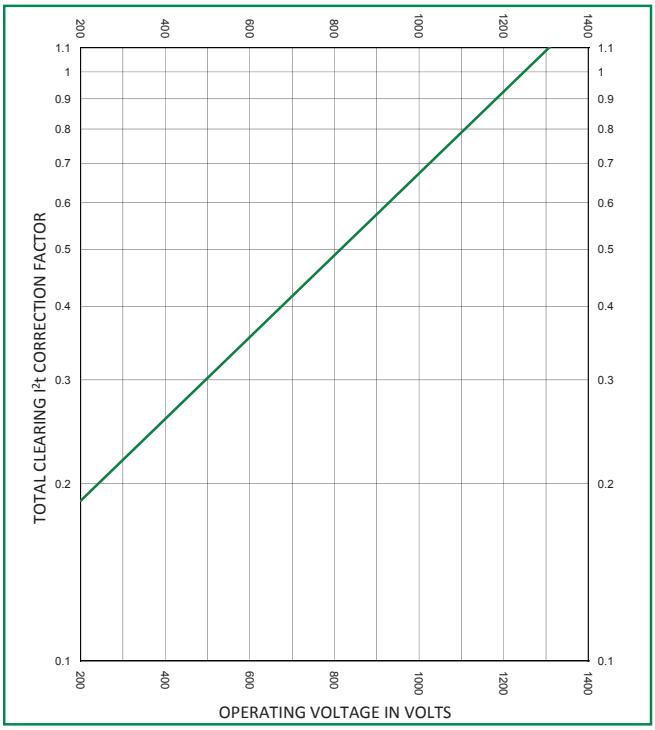
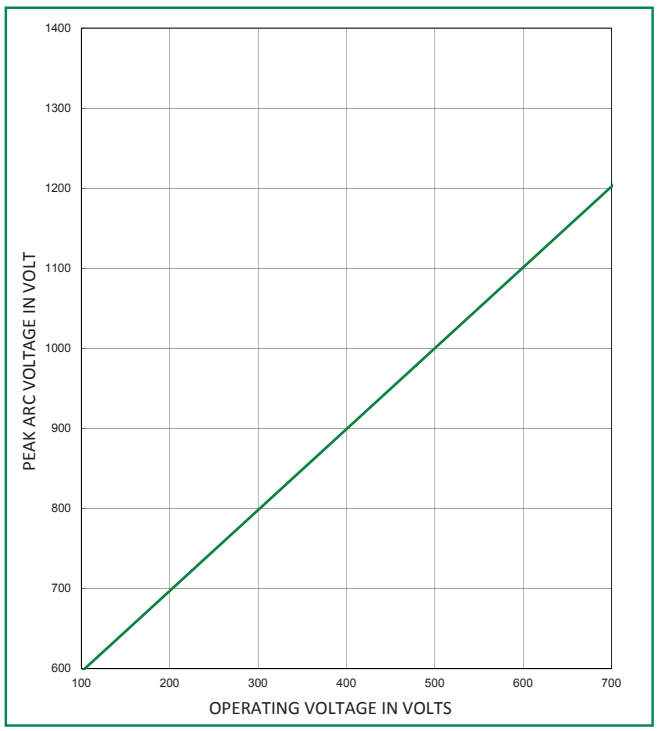
## Total Clearing I²t Correction Factor Curve
Case Size (30, 31, 32 and 33)



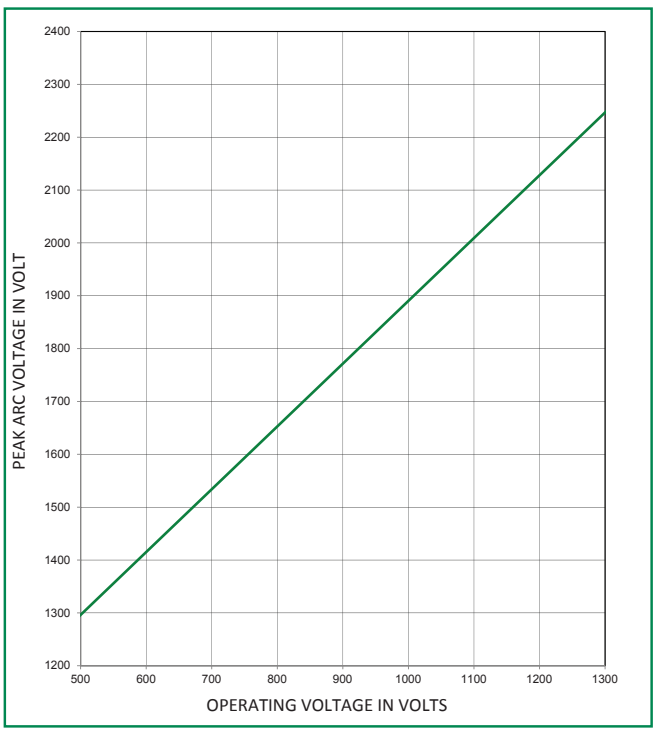

## Total Clearing I²t Correction Factor Curve
Case Size (70, 71, 72, and 73)




## 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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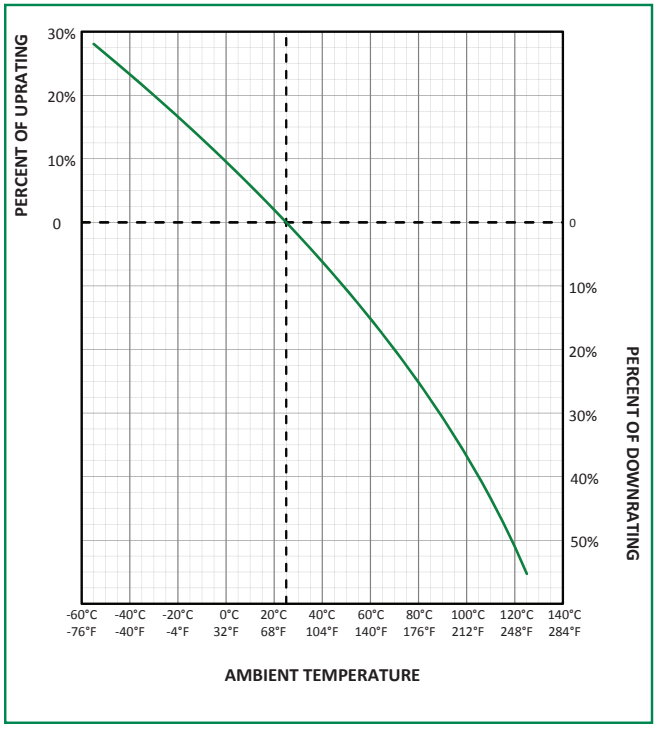
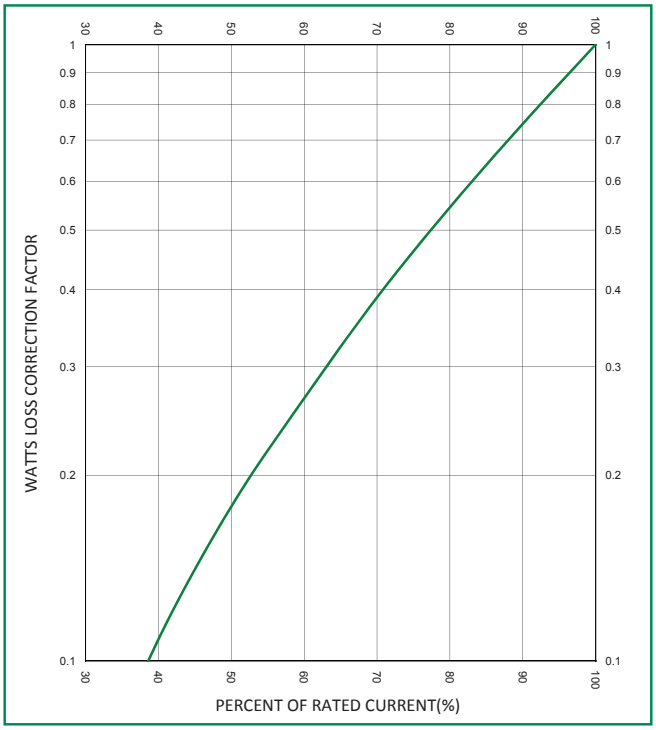
## Temperature Derating Curve

(temperature of air immediately surrounding fuse)




## Watts Loss Correction Factor Curve





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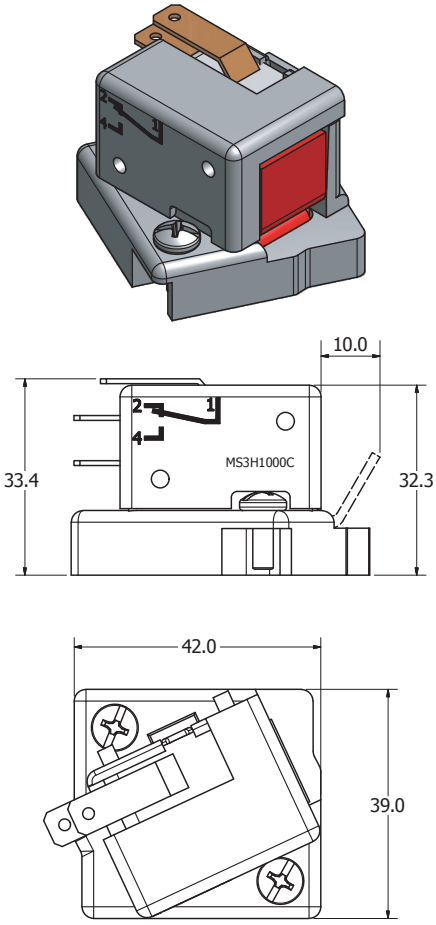
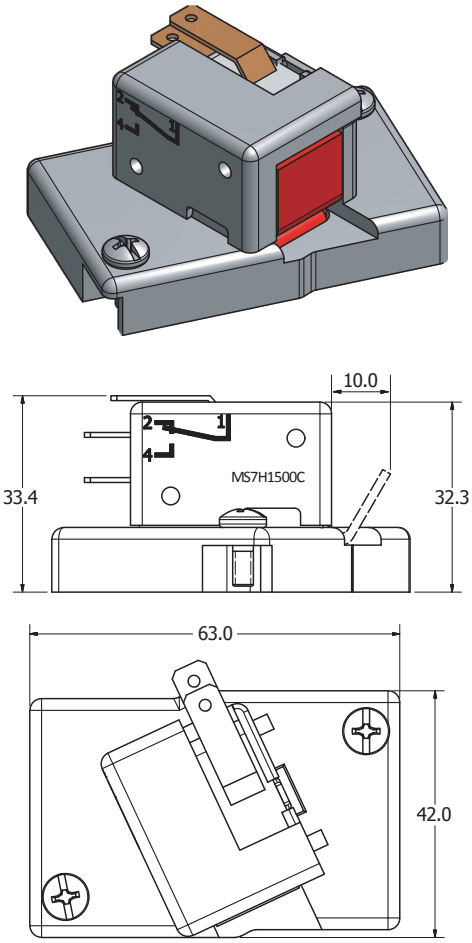
## Microswitch
### [Dimensions in millimeters]

**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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# OCEAN CHIPS
## Океан Электроники
## Поставка электронных компонентов

Компания «Океан Электроники» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Поставка оригинальных импортных электронных компонентов напрямую с производств Америки, Европы и Азии, а так же с крупнейших складов мира;
- Широкая линейка поставок активных и пассивных импортных электронных компонентов (более 30 млн. наименований);
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Помощь Конструкторского Отдела и консультации квалифицированных инженеров;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Поставка электронных компонентов под контролем ВП;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- При необходимости вся продукция военного и аэрокосмического назначения проходит испытания и сертификацию в лаборатории (по согласованию с заказчиком);
- Поставка специализированных компонентов военного и аэрокосмического уровня качества (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Actel, Aeroflex, Peregrine, VPT, Syfer, Eurofarad, Texas Instruments, MS Kennedy, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Компания «Океан Электроники» является официальным дистрибьютором и эксклюзивным представителем в России одного из крупнейших производителей разъемов военного и аэрокосмического назначения «**JONHON**», а так же официальным дистрибьютором и эксклюзивным представителем в России производителя высокотехнологичных и надежных решений для передачи СВЧ сигналов «**FORSTAR**».

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**«JONHON»** (основан в 1970 г.)

Разъемы специального, военного и аэрокосмического назначения:

(Применяются в военной, авиационной, аэрокосмической, морской, железнодорожной, горно- и нефтедобывающей отраслях промышленности)

**«FORSTAR»** (основан в 1998 г.)

ВЧ соединители, коаксиальные кабели, кабельные сборки и микроволновые компоненты:

(Применяются в телекоммуникациях гражданского и специального назначения, в средствах связи, РЛС, а так же военной, авиационной и аэрокосмической отраслях промышленности).

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