Littelfuse®

Expertise Applied | Answers Delivered



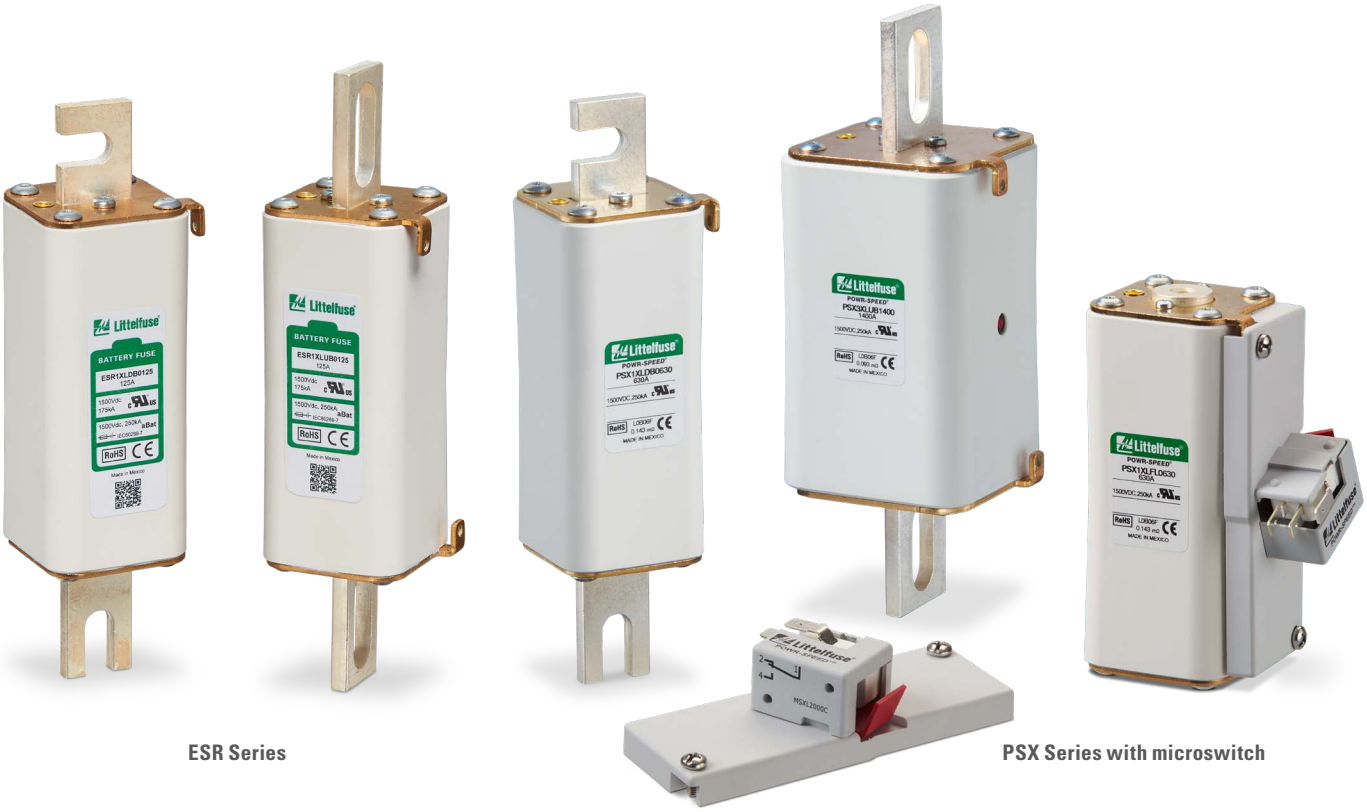





# HIGH-SPEED SEMICONDUCTOR PRODUCTS CATALOG

**POWR-*SPEED*® PRODUCTS** **HIGH-SPEED FUSES** **FUSE BLOCKS & HOLDERS**
**MICROSWITCHES** **SPECIAL PURPOSE FUSES**

# Battery Protection Fuses




ESR Series

PSX Series with microswitch

Battery protection requires higher dc voltage, dc current and interrupting rating fuses then other applications. These specialty fuses deliver high-speed protection at the increased voltage coupled with better interrupting ratings, to prevent costly catastrophic failures due to overcurrents.

# High-Speed Semiconductor Fuses Catalog
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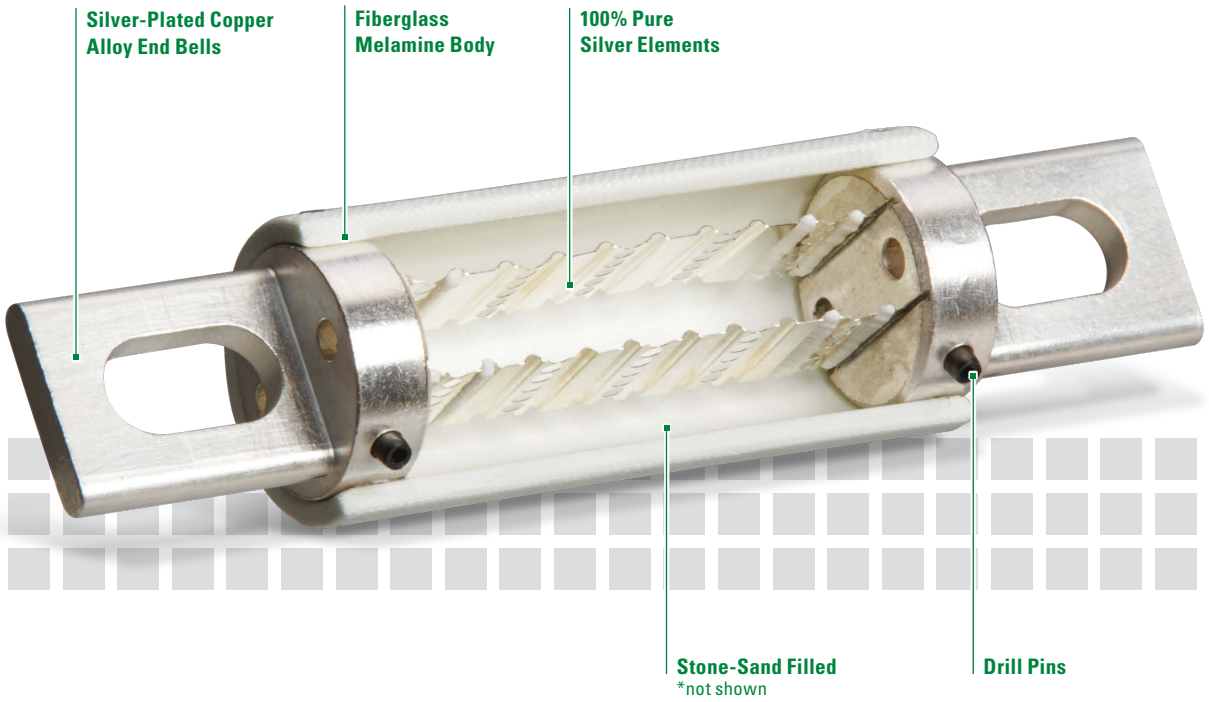
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# POWR-*SPEED*®

## High-Speed




## OPTIMIZED FOR PERFORMANCE AND EFFICIENCY

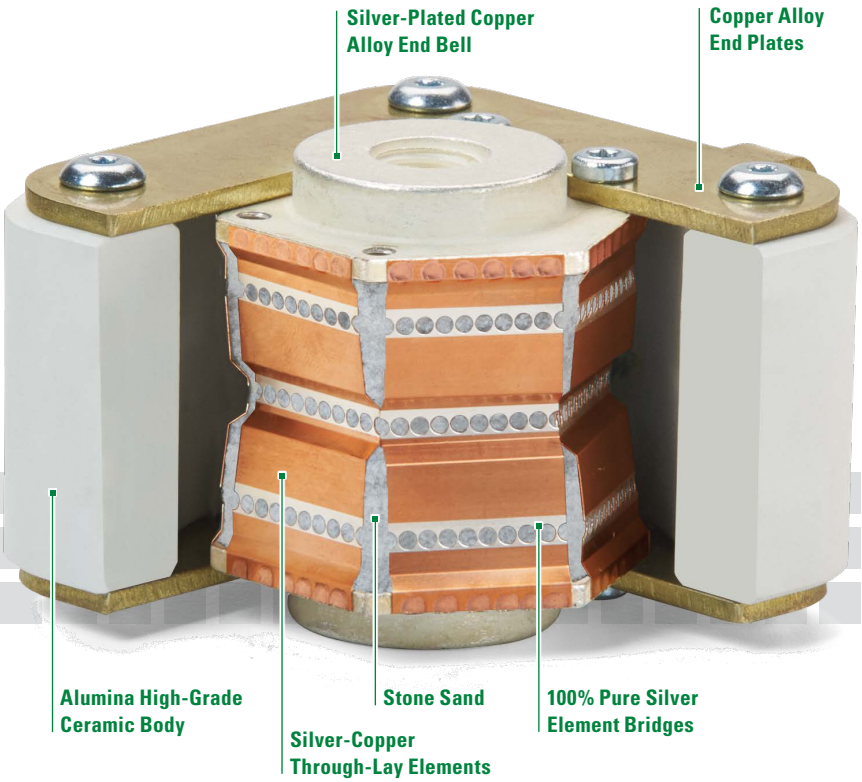
POWR-*SPEED* high-speed fuses are optimized for performance and efficiency to better protect your critical power semiconductors against short circuits. These certified fuses are reliable and fast-acting to help extend the life of your equipment.

The POWR-*SPEED* high-speed fuses are easy to retrofit as drop-in replacements where similar products are currently used. Plus, custom designs are available if you need a specific fuse for your application.

Contact us. Our engineers are eager to partner with you before, during, and long after the design process to meet your specific needs.


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# Semiconductor Fuses



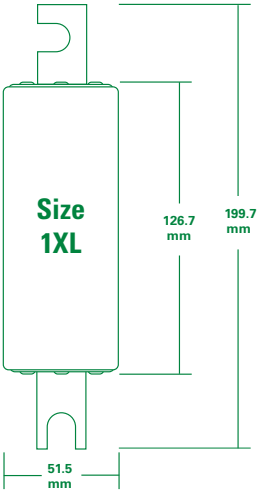

| FEATURES | BENEFITS |
|---|---|
| Extremely Current Limiting | Reduces peak let-through current and let-through energy ($I^2t$) to protect semiconductor components and devices |
| Low Watt Loss | Saves energy wasted during operation |
| Resilient Labeling* | Laser etched resistance values eliminate labels that erode over time |
| All Ratings Published on Label** | Eliminates confusion when replacing and inspecting |
| Universal Blade Mounting | Quick and easy field replacement |
| Flush End Terminals** | Flexibility to mount directly to bus-bar |
| RoHS and REACH Compliant | Environment friendly, offering greater acceptance in global power electronics |
| Silicone Sealant** | Prevents sand leakage and improves reliability |
| High Dc Interrupting Rating** | Achieves an interrupting rating of 150 kA for applications that require more power |

*Round-body style only
**Square-body style only

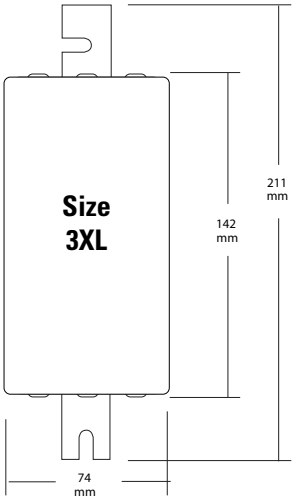

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# Fast acting, high speed aBat performance in smallest package size on the market

**PSX Series DIN Blade**
80 A to 630 A

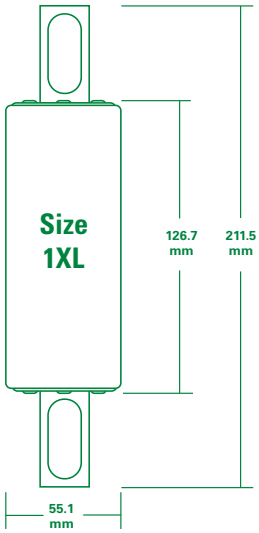



**Competitor 3**
100 A to 450 A

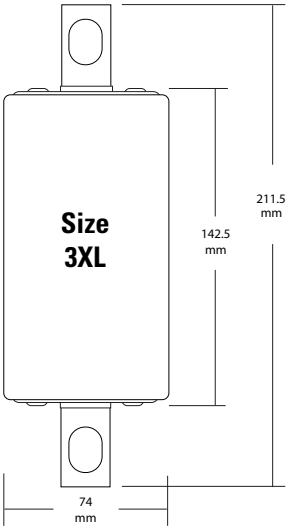



**Smaller Case Size, Similar Current Rating**

**PSX Series Bolted Blade**
80 A to 630 A

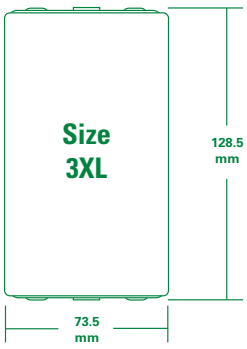



**Competitor 2**
200 A to 750 A

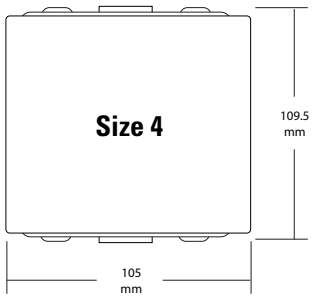



**Comparable Current Rating in a Smaller Case Size**

**PSX Series Flush Mount**
450 A to 1400 A, 1500 V dc




**Competitor 1**
800 A to 2500 A, 1200 V dc




**20 % Higher Voltage in a Smaller Case Size**


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| PSX Series Fuses | |
|---|---|
| **FEATURES** | **BENEFITS** |
| Low watt loss | Prevents energy loss, more efficient, minimizes wasted power from components |
| Compact size | Facilitates design of smaller or more compact high energy density systems |
| Visual indication is standard | Easily detectable in the event of a fault |
| High dc voltage rating to 1500 V dc | Protection for highest rated dc battery energy storage systems in the market |
| Dc breaking capacity up to 250 kA at 1500 V dc | Facilitates design of long duration battery energy storage systems |
| Three terminations | Allows more versatility with mounting configurations |
| Low minimum breaking capacity | Offers protection for lower levels of fault current |

## Download Our Guide on High-Speed Fuse Protection

An important part of developing quality overcurrent protection is understanding the system's needs as well as overcurrent protective device fundamentals. For an in-depth look at high-speed fuse protection visit **Littelfuse.com/Powr-Speed-Application-Guide** and download the guide.





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Battery Protection Fuses • 1500 V Dc • Class aBat • 125 A



## Description

The Littelfuse Energy Storage Rack (ESR) series of fuses is designed specifically to protect battery racks in energy storage systems, inverters, and many other dc applications. The 1500 V dc high-speed square body fuse is extremely fast-acting to respond quickly to a range of fault currents to safeguard the battery module or other devices.

This Class aBat partial range fuse has superior short circuit protection and a low minimum breaking capacity (MBC)—from 300 % or 3 times the fuse's rated current to 175 kA (250 kA self-certified)—to cover a range of over currents that traditional high-speed partial range fuses do not protect against.

The ESR fuse safely interrupts most faults in a battery storage system to avoid catastrophic failures and costly shutdowns.

## Features & Benefits

| FEATURES | BENEFITS |
|---|---|
| **High dc interrupting rating** | Provides superior short-circuit protection and the ability to scale-up systems without the need to redesign the existing circuit protection, saving time and costs |
| **Low minimum breaking current** | Offers easy coordination with battery modules and reduces size and rating of dc contactors to save space and costs |
| **Extremely fast acting** | Delivers high-speed performance |
| **Low watt loss** | Maximizes efficiency by preventing energy loss and minimizing the wasted power of components |
| **Conforms to the IEC60269-7 battery standard** | Specifically design to safeguard evolving battery technologies with fuse circuit protection |
| **Compact NH 1XL size** | Saves space and offers design flexibility |

## Applications

- Battery energy storage systems (BESSs)
  – Battery Protection Unit (BPU) and battery racks
- Power conversion systems
- Dc common bus systems
- Hybrid PV-BESS inverters


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## Specifications

| | |
|---|---|
| **Voltage Rating** | 1500 V dc |
| **Amperage Rating** | 125 A |
| **Interrupting Rating** | 175 kA UL (250 kA self-certified) |
| **Time Constant** | </= 3 ms |
| **Mounting** | Bolted-blade style, DIN-blade style |
| **Material** | Body: ceramic<br>Contacts: plated copper (bladed) |
| **Applicable Standards** | UL 248-13, IEC 60269-7 |
| **Environmental** | RoHS Compliant, REACH, Halogen Free |
| **Operating Temperature** | -55 °C to +125 °C |
| **Storage Temperature** | Up to +35 °C with relative humidity <65 % |
| **Country of Origin** | Mexico |

## Certification & Compliance

| | |
|---|---|
| **cURus** | cURus Recognized (File: E71611) |
| **CE** | ESR_UB_220411_0 |
| **RoHS** | RoHS 2 Directive 2011/65/EU<br>Directive (EU) 2015/863 |
| **REACH** | Regulation (EC) 1907/2006 |
| **UKCA** | UKCA-ESR_UB_220621_0 |

## Ordering Information

| CASE SIZE | CATALOG NUMBER | ORDERING NUMBER | UPC | BOX QUANTITY |
|---|---|---|---|---|
| NH 1XL | ESR1XLDB0125 | ESR1XLDB0125X | 07945830630 | 1 pc/box |
| NH 1XL | ESR1XLUB0125 | ESR1XLUB0125X | 07945830629 | 1 pc/box |

## Electrical Specifications

| CASE SIZE | CATALOG NUMBER | | AMPERE RATING (A) | VOLTAGE RATING (V) | INTERRUPTING RATING | MINIMUM BREAKING CAPACITY (A) | MELTING (PRE-ARC) $I^2T$ ($A^2S$) | TOTAL CLEARING $I^2T$ ($A^2S$) AT RATED VOLTAGE | WATTS LOSS AT 100 % RATED CURRENT (W) | AGENCY CERTIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|
| | BOLTED BLADE (UB) | DIN BLADE (DB) | | DC | DC | | | DC | | cURus |
| NH 1XL | ESR1XLUB0125 | ESR1XLDB0125 | 125 | 1500 | 175 kA (250 kA Self-certified) | 375 | 2245 | 45000 | 53 | • |


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## Dimensions

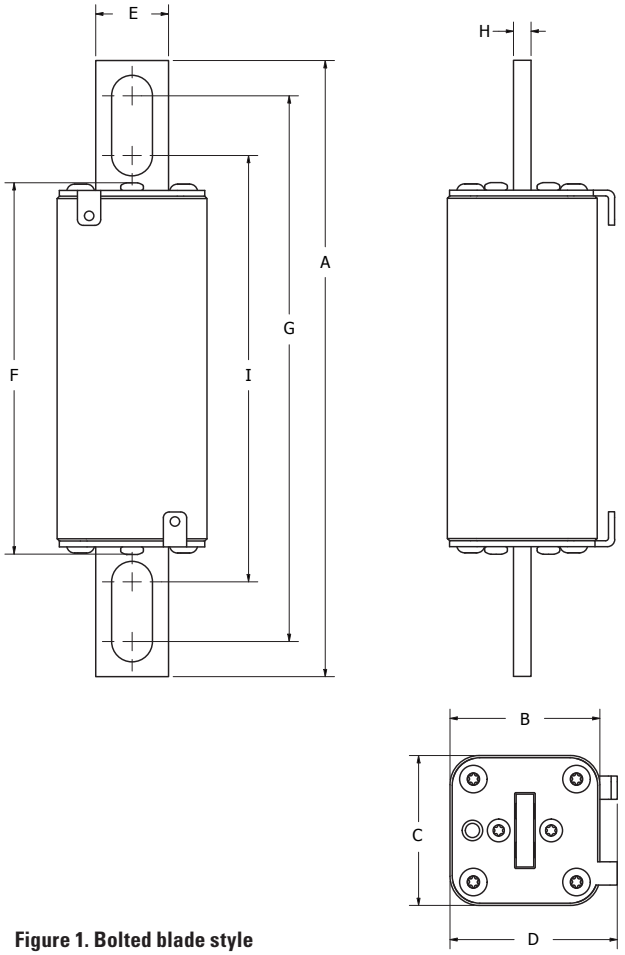



**Figure 1. Bolted blade style**

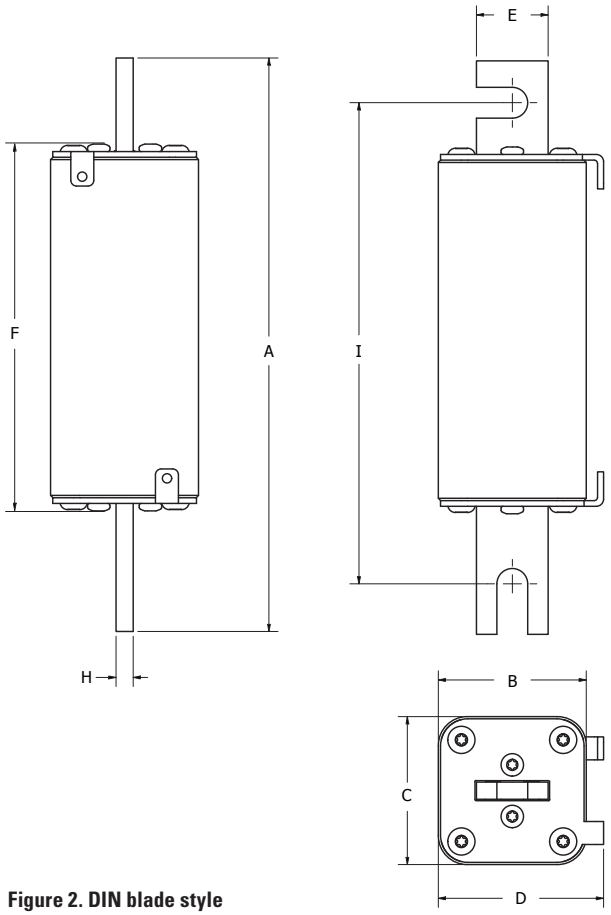



**Figure 2. DIN blade style**

| DIMENSIONS MM (IN) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CASE SIZE | MOUNTING STYLE | FIGURE | A | B | C | D | E | F | G | H | I | RECOMMENDED FASTENER | RECOMMENDED TORQUE |
| NH 1XL | BOLTED BLADE (UB) | 1 | 211.7 (8.33) | 51.5 (2.03) | 51.5 (2.03) | 57.5 (2.26) | 25.0 (0.98) | 127.7 (5.03) | 187.5 (7.38) | 6.0 (0.24) | 146.5 (5.77) | 12 (½) | 64 Nm |
| NH 1XL | DIN BLADE (DB) | 2 | 199.7 (7.86) | 51.5 (2.03) | 51.5 (2.03) | 57.5 (2.26) | 25.0 (0.98) | 127.7 (5.03) | - | 6.0 (0.24) | 167.5 (6.59) | 10 (3/8) | 26 Nm |


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# POWR-*SPEED*® Fuses

## PSX SERIES HIGH-SPEED SQUARE BODY

Battery Protection Fuses • 1500 V Dc Class aBat • 80 A–1400 A



## Description

Littelfuse PSX series 1500 V dc high-speed square body fuses are specially designed to protect battery energy storage systems (BESS), photovoltaic inverters, and many dc applications such as dc common bus systems, larger industrial regenerative drives, rectifiers and metal processing equipment.

The PSX series fuses are extremely fast-acting, offering high-speed performance up to 1500 V dc, ranging from 80 A to 1400 A in the smallest NH XL package sizes. The PSX series is available with multiple mounting terminations including flush-end, DIN, and bolted-blade styles. Visual blown fuse indication is standard on all fuses and optional micro-switch is available for external indication.

The PSX series is certified to UL248-13 and designed to meet IEC 60269-7 (Class aBat) battery protection fuse standard.

## Features/Benefits

- High dc voltage rating up to 1500 V dc
- Dc interrupting rating is 250 kA
- Extremely fast acting for high speed performance
- Low watt loss provides energy efficiency for BESS applications
- Compact NH 1XL and 3XL sizes offer flexibility

## Applications

- Battery energy storage systems (BESSs)
- Power conversion systems
- Dc common bus systems
- Hybrid PV-BESS inverters
- Regenerative drives
- Industrial heaters and welding equipment
- Metal processing equipment

## Specifications

| | |
|---|---|
| **Voltage Rating** | Dc: 1500 V |
| **Amperage Rating** | 80 A–1400 A |
| **Interrupting Rating** | Dc: 250 kA |
| **Time Constant** | 1XL: </= 3 ms<br>3XL: </= 5 ms |
| **Microswitch** | Yes |
| **Mounting** | Bolted-blade style, DIN-blade style, Metric flush-end style |
| **Material** | Body: ceramic<br>Contacts: plated copper (bladed)<br>plated brass (flush end) |
| **Approvals** | cURus Recognized (File: E71611) |
| **Applicable Standards** | UL 248-13, IEC 60269-7 |
| **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

**PSX 3XL UB 1400 X**

- **Series**
- **Case Size**: 1XL, 3XL
- **Termination**: UB = bolted blade; DB = DIN blade; FL = flush-metric
- **Amperage**
- **Packing Quantity**: X = (1 pc/box)

## Catalog Number

| SERIES | CASE SIZE | TERMINATION | AMPERAGE | CATALOG NUMBER | ORDERING PART NUMBER |
|---|---|---|---|---|---|
| PSX | 3XL | UB | 1400 | PSX3XLUB1400 | PSX3XLUB1400X |

## Recommended Accessories

**Microswitch:** MSXL2000C

## Web Resources

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


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## Electrical Characteristics

| CASE SIZE | CATALOG NUMBER | | | AMPERE RATING (A) | VOLTAGE RATING (V) | INTERRUPTING RATING | MINIMUM BREAKING CAPACITY (A) | MELTING (PRE-ARC) $I^2T$ ($A^2S$) | TOTAL CLEARING $I^2T$ ($A^2S$) AT RATED VOLTAGE | WATTS LOSS AT 100% RATED CURRENT (W) | AGENCY CERTIFICATION |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | FLUSH METRIC (FL) | BOLTED BLADE (UB) | DIN BLADE (DB) | | DC | DC | | | DC | | cURus |
| NH 1XL | PSX1XLFL0080 | PSX1XLUB0080 | PSX1XLDB0080 | 80 | 1500 | 250 kA | 800 A | 2048 | 8720 | 16.4 | • |
| | PSX1XLFL0100 | PSX1XLUB0100 | PSX1XLDB0100 | 100 | 1500 | 250 kA | 1000 A | 3540 | 15485 | 19.1 | • |
| | PSX1XLFL0125 | PSX1XLUB0125 | PSX1XLDB0125 | 125 | 1500 | 250 kA | 1250 A | 7091 | 35720 | 19.6 | • |
| | PSX1XLFL0160 | PSX1XLUB0160 | PSX1XLDB0160 | 160 | 1500 | 250 kA | 1600 A | 13704 | 55490 | 24.6 | • |
| | PSX1XLFL0200 | PSX1XLUB0200 | PSX1XLDB0200 | 200 | 1500 | 250 kA | 2000 A | 18016 | 77240 | 34.6 | • |
| | PSX1XLFL0250 | PSX1XLUB0250 | PSX1XLDB0250 | 250 | 1500 | 250 kA | 2500 A | 36552 | 156450 | 38.5 | • |
| | PSX1XLFL0280 | PSX1XLUB0280 | PSX1XLDB0280 | 280 | 1500 | 250 kA | 2800 A | 36552 | 156450 | 48.7 | • |
| | PSX1XLFL0315 | PSX1XLUB0315 | PSX1XLDB0315 | 315 | 1500 | 250 kA | 3150 A | 56940 | 212400 | 53.6 | • |
| | PSX1XLFL0350 | PSX1XLUB0350 | PSX1XLDB0350 | 350 | 1500 | 250 kA | 3500 A | 86623 | 332050 | 51.8 | • |
| | PSX1XLFL0400 | PSX1XLUB0400 | PSX1XLDB0400 | 400 | 1500 | 250 kA | 4000 A | 116271 | 352600 | 64.4 | • |
| | PSX1XLFL0450 | PSX1XLUB0450 | PSX1XLDB0450 | 450 | 1500 | 250 kA | 6750 A | 149336 | 540850 | 69.3 | • |
| | PSX1XLFL0500 | PSX1XLUB0500 | PSX1XLDB0500 | 500 | 1500 | 250 kA | 7500 A | 250109 | 774600 | 71.5 | • |
| | PSX1XLFL0550 | PSX1XLUB0550 | PSX1XLDB0550 | 550 | 1500 | 250 kA | 8250 A | 276650 | 924967 | 83.1 | • |
| | PSX1XLFL0630 | PSX1XLUB0630 | PSX1XLDB0630 | 630 | 1500 | 250 kA | 9450 A | 276650 | 924967 | 127.3 | • |
| NH 3XL | PSX3XLFL0450 | PSX3XLUB0450 | PSX3XLDB0450 | 450 | 1500 | 250 kA | 4500 A | 57143 | 194500 | 146.3 | • |
| | PSX3XLFL0500 | PSX3XLUB0500 | PSX3XLDB0500 | 500 | 1500 | 250 kA | 5000 A | 98570 | 333900 | 132.5 | • |
| | PSX3XLFL0550 | PSX3XLUB0550 | PSX3XLDB0550 | 550 | 1500 | 250 kA | 5500 A | 142790 | 451600 | 136.7 | • |
| | PSX3XLFL0630 | PSX3XLUB0630 | PSX3XLDB0630 | 630 | 1500 | 250 kA | 6300 A | 205617 | 650304 | 150.9 | • |
| | PSX3XLFL0700 | PSX3XLUB0700 | PSX3XLDB0700 | 700 | 1500 | 250 kA | 7000 A | 305720 | 1003650 | 164.5 | • |
| | PSX3XLFL0800 | PSX3XLUB0800 | PSX3XLDB0800 | 800 | 1500 | 250 kA | 8000 A | 335493 | 1150000 | 209.6 | • |
| | PSX3XLFL0900 | PSX3XLUB0900 | PSX3XLDB0900 | 900 | 1500 | 250 kA | 9000 A | 403262 | 1308500 | 266.9 | • |
| | PSX3XLFL1000 | PSX3XLUB1000 | PSX3XLDB1000 | 1000 | 1500 | 250 kA | 10000 A | 484792 | 1791500 | 335.0 | • |
| | PSX3XLFL1100 | PSX3XLUB1100 | PSX3XLDB1100 | 1100 | 1500 | 250 kA | 11000 A | 656719 | 2201250 | 341.0 | • |
| | PSX3XLFL1250 | PSX3XLUB1250 | PSX3XLDB1250 | 1250 | 1500 | 250 kA | 12500 A | 995376 | 3003500 | 346.9 | • |
| | PSX3XLFL1400 | PSX3XLUB1400 | PSX3XLDB1400 | 1400 | 1500 | 250 kA | 14000 A | 1395828 | 4228250 | 361.9 | • |

## Ordering Information

| CASE SIZE | FLUSH METRIC (FL) | | | BOLTED BLADE (UB) | | | DIN BLADE (DB) | | | BOX QUANTITY |
|---|---|---|---|---|---|---|---|---|---|---|
| | CATALOG NUMBER | ORDERING PART NUMBER | UPC | CATALOG NUMBER | ORDERING PART NUMBER | UPC | CATALOG NUMBER | ORDERING PART NUMBER | UPC | |
| NH 1XL | PSX1XLFL0080 | PSX1XLFL0080X | 07945825798 | PSX1XLUB0080 | PSX1XLUB0080X | 07945825819 | PSX1XLDB0080 | PSX1XLDB0080X | 07945826320 | 1 pc/box |
| | PSX1XLFL0100 | PSX1XLFL0100X | 07945825799 | PSX1XLUB0100 | PSX1XLUB0100X | 07945825820 | PSX1XLDB0100 | PSX1XLDB0100X | 07945826321 | 1 pc/box |
| | PSX1XLFL0125 | PSX1XLFL0125X | 07945825800 | PSX1XLUB0125 | PSX1XLUB0125X | 07945825821 | PSX1XLDB0125 | PSX1XLDB0125X | 07945826322 | 1 pc/box |
| | PSX1XLFL0160 | PSX1XLFL0160X | 07945825801 | PSX1XLUB0160 | PSX1XLUB0160X | 07945825822 | PSX1XLDB0160 | PSX1XLDB0160X | 07945826323 | 1 pc/box |
| | PSX1XLFL0200 | PSX1XLFL0200X | 07945825802 | PSX1XLUB0200 | PSX1XLUB0200X | 07945825823 | PSX1XLDB0200 | PSX1XLDB0200X | 07945826324 | 1 pc/box |
| | PSX1XLFL0250 | PSX1XLFL0250X | 07945825803 | PSX1XLUB0250 | PSX1XLUB0250X | 07945825824 | PSX1XLDB0250 | PSX1XLDB0250X | 07945826325 | 1 pc/box |
| | PSX1XLFL0280 | PSX1XLFL0280X | 07945825804 | PSX1XLUB0280 | PSX1XLUB0280X | 07945825825 | PSX1XLDB0280 | PSX1XLDB0280X | 07945826326 | 1 pc/box |
| | PSX1XLFL0315 | PSX1XLFL0315X | 07945825805 | PSX1XLUB0315 | PSX1XLUB0315X | 07945825826 | PSX1XLDB0315 | PSX1XLDB0315X | 07945826327 | 1 pc/box |
| | PSX1XLFL0350 | PSX1XLFL0350X | 07945825806 | PSX1XLUB0350 | PSX1XLUB0350X | 07945825827 | PSX1XLDB0350 | PSX1XLDB0350X | 07945826328 | 1 pc/box |
| | PSX1XLFL0400 | PSX1XLFL0400X | 07945825807 | PSX1XLUB0400 | PSX1XLUB0400X | 07945825828 | PSX1XLDB0400 | PSX1XLDB0400X | 07945826329 | 1 pc/box |
| | PSX1XLFL0450 | PSX1XLFL0450X | 07945825808 | PSX1XLUB0450 | PSX1XLUB0450X | 07945825829 | PSX1XLDB0450 | PSX1XLDB0450X | 07945826330 | 1 pc/box |
| | PSX1XLFL0500 | PSX1XLFL0500X | 07945825809 | PSX1XLUB0500 | PSX1XLUB0500X | 07945826310 | PSX1XLDB0500 | PSX1XLDB0500X | 07945826331 | 1 pc/box |
| | PSX1XLFL0550 | PSX1XLFL0550X | 07945825810 | PSX1XLUB0550 | PSX1XLUB0550X | 07945826311 | PSX1XLDB0550 | PSX1XLDB0550X | 07945826332 | 1 pc/box |
| | PSX1XLFL0630 | PSX1XLFL0630X | 07945825811 | PSX1XLUB0630 | PSX1XLUB0630X | 07945826312 | PSX1XLDB0630 | PSX1XLDB0630X | 07945826333 | 1 pc/box |
| NH 3XL | PSX3XLFL0450 | PSX3XLFL0450X | 07945828641 | PSX3XLUB0450 | PSX3XLUB0450X | 07945828645 | PSX3XLDB0450 | PSX3XLDB0450X | 07945828649 | 1 pc/box |
| | PSX3XLFL0500 | PSX3XLFL0500X | 07945828642 | PSX3XLUB0500 | PSX3XLUB0500X | 07945828646 | PSX3XLDB0500 | PSX3XLDB0500X | 07945828650 | 1 pc/box |
| | PSX3XLFL0550 | PSX3XLFL0550X | 07945828643 | PSX3XLUB0550 | PSX3XLUB0550X | 07945828647 | PSX3XLDB0550 | PSX3XLDB0550X | 07945828651 | 1 pc/box |
| | PSX3XLFL0630 | PSX3XLFL0630X | 07945828644 | PSX3XLUB0630 | PSX3XLUB0630X | 07945828648 | PSX3XLDB0630 | PSX3XLDB0630X | 07945828652 | 1 pc/box |
| | PSX3XLFL0700 | PSX3XLFL0700X | 07945825812 | PSX3XLUB0700 | PSX3XLUB0700X | 07945826313 | PSX3XLDB0700 | PSX3XLDB0700X | 07945826334 | 1 pc/box |
| | PSX3XLFL0800 | PSX3XLFL0800X | 07945825813 | PSX3XLUB0800 | PSX3XLUB0800X | 07945826314 | PSX3XLDB0800 | PSX3XLDB0800X | 07945826335 | 1 pc/box |
| | PSX3XLFL0900 | PSX3XLFL0900X | 07945825814 | PSX3XLUB0900 | PSX3XLUB0900X | 07945826315 | PSX3XLDB0900 | PSX3XLDB0900X | 07945826336 | 1 pc/box |
| | PSX3XLFL1000 | PSX3XLFL1000X | 07945825815 | PSX3XLUB1000 | PSX3XLUB1000X | 07945826316 | PSX3XLDB1000 | PSX3XLDB1000X | 07945826337 | 1 pc/box |
| | PSX3XLFL1100 | PSX3XLFL1100X | 07945825816 | PSX3XLUB1100 | PSX3XLUB1100X | 07945826317 | PSX3XLDB1100 | PSX3XLDB1100X | 07945826338 | 1 pc/box |
| | PSX3XLFL1250 | PSX3XLFL1250X | 07945825817 | PSX3XLUB1250 | PSX3XLUB1250X | 07945826318 | PSX3XLDB1250 | PSX3XLDB1250X | 07945826339 | 1 pc/box |
| | PSX3XLFL1400 | PSX3XLFL1400X | 07945825818 | PSX3XLUB1400 | PSX3XLUB1400X | 07945826319 | PSX3XLDB1400 | PSX3XLDB1400X | 07945826340 | 1 pc/box |



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## Dimensions

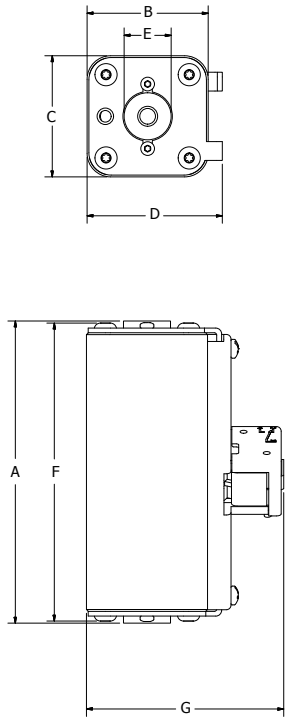



**Figure 1. Flush-metric style**

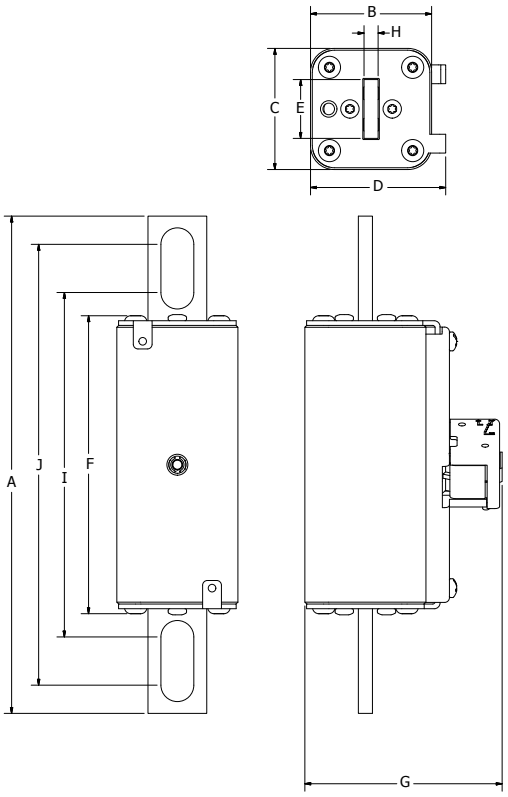



**Figure 2. Bolted-blade style**

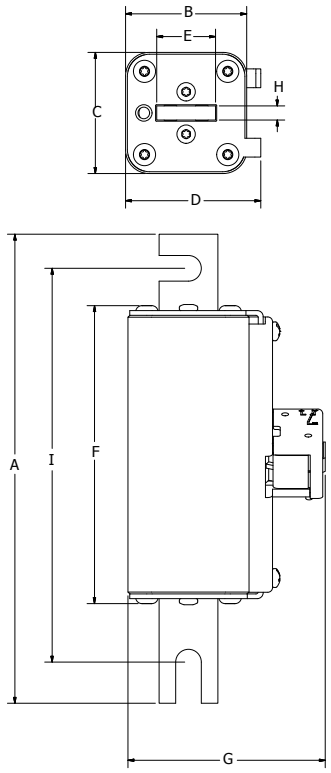



**Figure 3. DIN-blade style**

| DIMENSIONS MM (IN) | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CASE SIZE | MOUNTING STYLE | FIGURE | A | B | C | D | E | F | G* | H | I | J | RECOMMENDED FASTENER | THREAD | RECOMMENDED TORQUE |
| NH 1XL | FLUSH METRIC (FL) | 1 | 128.5 (5.06) | 51.5 (2.03) | 51.5 (2.03) | 57.5 (2.26) | 20.0 (0.79) | 126.7 (4.99) | 83.9 (3.30) | - | - | - | - | M8 x 1.25 | 13–20 Nm |
| | BOLTED BLADE (UB) | 2 | 211.5 (8.33) | 51.5 (2.03) | 51.5 (2.03) | 57.5 (2.26) | 25.0 (0.98) | 126.7 (4.99) | 83.9 (3.30) | 6.0 (0.24) | 146.5 (5.77) | 187.5 (7.38) | 12 mm (1/2) | - | 64 Nm |
| | DIN BLADE (DB) | 3 | 199.5 (7.85) | 51.5 (2.03) | 51.5 (2.03) | 57.5 (2.26) | 25.0 (0.98) | 126.7 (4.99) | 83.9 (3.30) | 6.0 (0.24) | 167.5 (6.59) | - | 10 mm (3/8) | - | 26 Nm |
| NH 3XL | FLUSH METRIC (FL) | 1 | 129.5 (5.10) | 73.5 (2.89) | 73.5 (2.89) | 79.5 (3.13) | 30.0 (1.18) | 128.1 (5.04) | 105.9 (4.17) | - | - | - | - | M12 x 1.75 | 45–55 Nm |
| | BOLTED BLADE (UB) | 2 | 213.5 (8.41) | 73.5 (2.89) | 73.5 (2.89) | 79.5 (3.13) | 36.0 (1.42) | 128.7 (5.07) | 105.9 (4.17) | 6.0 (0.24) | 153.1 (6.03) | 186.1 (7.33) | 14 mm (9/16) | - | 92 Nm |
| | DIN BLADE (DB) | 3 | 199.0 (7.83) | 73.5 (2.89) | 73.5 (2.89) | 79.5 (3.13) | 36.0 (1.42) | 128.7 (5.07) | 105.9 (4.17) | 6.0 (0.24) | 166.8 (6.57) | - | 10 mm (3/8) | - | 26 Nm |

*These dimensions include the optional bolt-on microswitch.


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# POWR-*SPEED*® Fuses

## PSR SERIES HIGH-SPEED SQUARE BODY

Semiconductor Fuses • Flush End • 40 A–2250 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
- Fast-acting Class aR performance

## 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: 450 V–1300 V<br>Dc: 450 V–1000 V |
| **Amperage Range** | 40 A–2250 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** | cURus Recognized (File: E71611)<br>CCC (Ac voltage) * |
| **Applicable Standards** | 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.*

* Refer to CCC section of Electrical Characteristics table


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## Electrical Characteristics

| CASE SIZE | CATALOG NUMBER | | AMPERE 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 | • | • |
| | PSR030FL0630 | PSR030FS0630 | 630 | 690 | 700 | 550 | 200 kA | 150 kA | 57404 | 480010 | 267800 | 90 | • | |
| 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 | 64 | • | • |
| | PSR031FL0450 | PSR031FS0450 | 450 | 690 | 700 | 600 | 200 kA | 150 kA | 22457 | 178200 | 97444 | 69 | • | • |
| | PSR031FL0500 | PSR031FS0500 | 500 | 690 | 700 | 600 | 200 kA | 150 kA | 29751 | 251505 | 125935 | 81 | • | • |
| | PSR031FL0550 | PSR031FS0550 | 550 | 690 | 700 | 600 | 200 kA | 150 kA | 42056 | 289170 | 171845 | 77 | • | • |
| | PSR031FL0630 | PSR031FS0630 | 630 | 690 | 700 | 600 | 200 kA | 150 kA | 45403 | 415500 | 175500 | 93 | • | • |
| | PSR031FL0700 | PSR031FS0700 | 700 | 690 | 700 | 600 | 200 kA | 150 kA | 98187 | 601425 | 337260 | 92 | • | • |
| | PSR031FL0800 | PSR031FS0800 | 800 | 690 | 700 | 600 | 200 kA | 150 kA | 137208 | 848880 | 502800 | 106 | • | • |
| | PSR031FL0900 | PSR031FS0900 | 900 | 550 | 600 | 550 | 200 kA | 150 kA | 155163 | 945100 | 631820 | 118 | • | |
| 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 | • | • |
| | PSR032FL1250 | PSR032FS1250 | 1250 | 550 | 500** | 450** | 200 kA | 150 kA | 336661 | 1114994 | 1197000 | 149 | • | |
| | PSR032FL1400 | PSR032FS1400 | 1400 | 450 | 500 | 450 | 200 kA | 150 kA | 551749 | 1611639 | 1865400 | 154 | • | |
| | PSR032FL1500 | PSR032FS1500 | 1500 | 450 | 500 | 450 | 200 kA | 150 kA | 673360 | 2045907 | 1735500 | 171 | • | |
| 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 | • | • |
| | PSR033FL2250 | PSR033FS2250 | 2250 | 500 | 550 | 450 | 200 kA | 150 kA | 1236000 | 4459651 | 3859500 | 299 | • | |

* CCC Certification only on Flush End Metric Thread Version

** PSR032 1250 A: 600 V Ac/550 V Dc


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## Electrical Characteristics (cont.)

| CASE SIZE | CATALOG NUMBER | | AMPERE 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 | • | • |
| | PSR070FL0350 | PSR070FS0350 | 350 | 1250 | 1200** | 900** | 100 kA | 150 kA | 22963 | 215230 | 95410 | 73 | • | |
| | PSR070FL0400 | PSR070FS0400 | 400 | 1100 | 1200 | 900 | 100 kA | 150 kA | 37103 | 283480 | 154320 | 71 | • | |
| 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 | • | • |
| | PSR071FL0500 | PSR071FS0500 | 500 | 1100 | 1200 | 900 | 100 kA | 150 kA | 75315 | 468845 | 253960 | 82 | • | |
| | PSR071FL0550 | PSR071FS0550 | 550 | 1100 | 1200 | 900 | 100 kA | 150 kA | 87328 | 693507 | 332600 | 90 | • | |
| | PSR071FL0630 | PSR071FS0630 | 630 | 1000 | 1100 | 900 | 100 kA | 150 kA | 131240 | 790862 | 426550 | 100 | • | |
| 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 | • | • |
| | PSR072FL0700 | PSR072FS0700 | 700 | 1100 | 1200 | 900*** | 100 kA | 150 kA | 228761 | 1123694 | 715180 | 115 | • | |
| | PSR072FL0800 | PSR072FS0800 | 800 | 1100 | 1200 | 900*** | 100 kA | 150 kA | 230695 | 1432388 | 911650 | 113 | • | |
| | PSR072FL0900 | PSR072FS0900 | 900 | 1000 | 900** | 900*** | 100 kA | 150 kA | 376641 | 1309993 | 1030400 | 125 | • | |
| | PSR072FL1000 | PSR072FS1000 | 1000 | 850 | 900 | 800*** | 100 kA | 150 kA | 455955 | 1772548 | 1361500 | 136 | • | |
| 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 | • | • |
| | PSR073FL0800 | PSR073FS0800 | 800 | 1250 | 1300 | 1000*** | 100 kA | 150 kA | 234943 | 1769880 | 733460 | 123 | • | |
| | PSR073FL0900 | PSR073FS0900 | 900 | 950 | 1050 | 800*** | 100 kA | 150 kA | 317743 | 2280547 | 901779 | 140 | • | |
| | PSR073FL1000 | PSR073FS1000 | 1000 | 950 | 1050 | 800*** | 100 kA | 150 kA | 476221 | 3910801 | 1546418 | 128 | • | |
| | PSR073FL1100 | PSR073FS1100 | 1100 | 950 | 1050 | 800*** | 100 kA | 150 kA | 570870 | 2736600 | 1699000 | 166 | • | |
| | PSR073FL1250 | PSR073FS1250 | 1250 | 900 | 1000 | - | 100 kA | - | 993924 | 3091160 | - | 182 | • | |
| | PSR073FL1400 | PSR073FS1400 | 1400 | 900 | 1000 | - | 100 kA | - | 1168091 | 3627820 | - | 229 | • | |

* CCC Certification only on Flush End Metric Thread Version

** PSR070 350 A: 1300 V Ac/1000 V Dc
PSR072 900 A: 1100 V Ac

*** No UL certification for Dc voltage


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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 |
| | PSR030FL0630 | PSR030FL0630Z | 07945827757 | PSR030FS0630 | PSR030FS0630Z | 07945827778 | 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 |
| | PSR031FL0900 | PSR031FL0900Z | 07945827758 | PSR031FS0900 | PSR031FS0900Z | 07945827779 | 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 |
| | PSR032FL1250 | PSR032FL1250Z | 07945827759 | PSR032FS1250 | PSR032FS1250Z | 07945827780 | 3 pcs/box |
| | PSR032FL1400 | PSR032FL1400Z | 07945827760 | PSR032FS1400 | PSR032FS1400Z | 07945827781 | 3 pcs/box |
| | PSR032FL1500 | PSR032FL1500Z | 07945827761 | PSR032FS1500 | PSR032FS1500Z | 07945827782 | 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 |
| | PSR033FL2250 | PSR033FL2250Z | 07945827762 | PSR033FS2250 | PSR033FS2250Z | 07945827783 | 3 pcs/box |

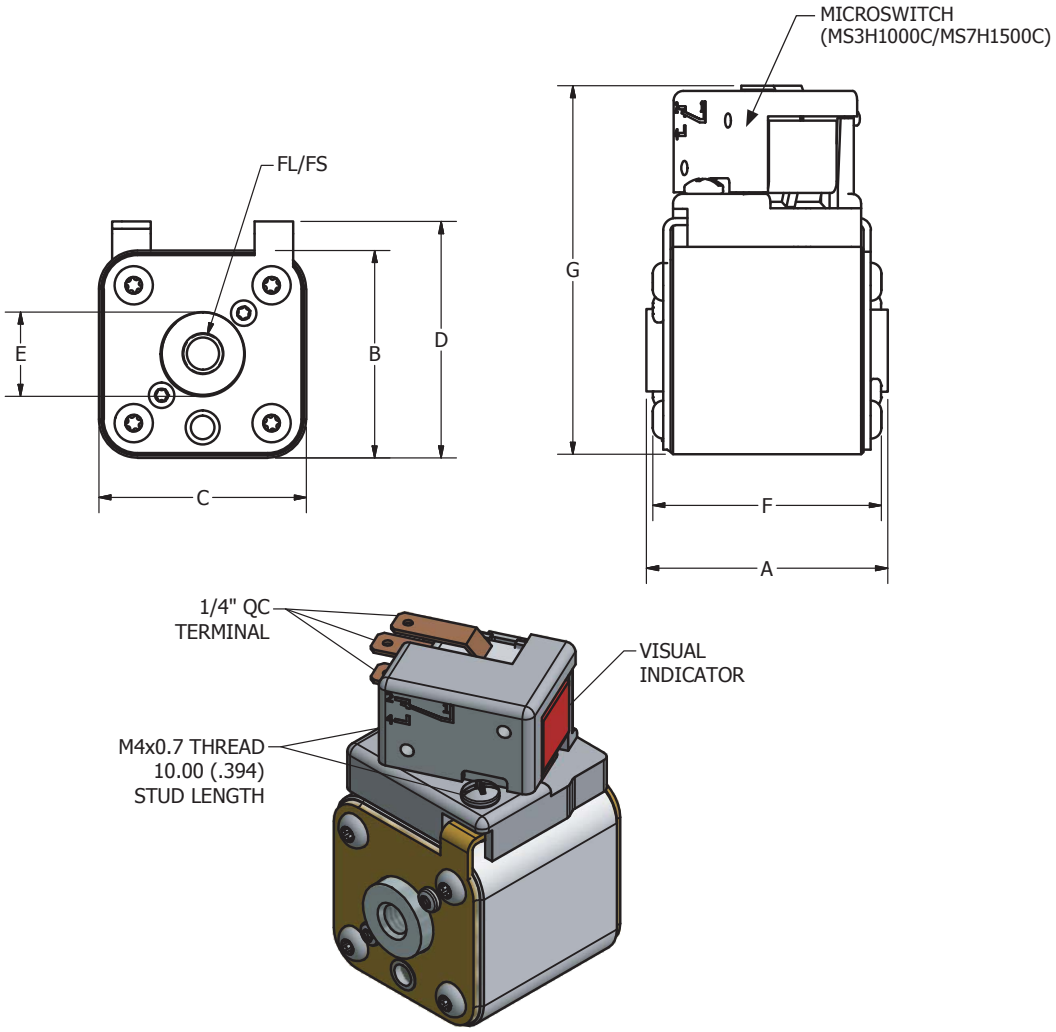

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## Ordering Information (cont.)

| 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 |
| | PSR070FL0350 | PSR070FL0350Z | 07945827763 | PSR070FS0350 | PSR070FS0350Z | 07945827784 | 2 pcs/box |
| | PSR070FL0400 | PSR070FL0400Z | 07945827764 | PSR070FS0400 | PSR070FS0400Z | 07945827785 | 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 |
| | PSR071FL0500 | PSR071FL0500Z | 07945827765 | PSR071FS0500 | PSR071FS0500Z | 07945827786 | 2 pcs/box |
| | PSR071FL0550 | PSR071FL0550Z | 07945827766 | PSR071FS0550 | PSR071FS0550Z | 07945827787 | 2 pcs/box |
| | PSR071FL0630 | PSR071FL0630Z | 07945827767 | PSR071FS0630 | PSR071FS0630Z | 07945827788 | 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 |
| | PSR072FL0700 | PSR072FL0700Z | 07945827768 | PSR072FS0700 | PSR072FS0700Z | 07945827789 | 2 pcs/box |
| | PSR072FL0800 | PSR072FL0800Z | 07945827769 | PSR072FS0800 | PSR072FS0800Z | 07945827790 | 2 pcs/box |
| | PSR072FL0900 | PSR072FL0900Z | 07945827770 | PSR072FS0900 | PSR072FS0900Z | 07945827793 | 2 pcs/box |
| | PSR072FL1000 | PSR072FL1000Z | 07945827771 | PSR072FS1000 | PSR072FS1000Z | 07945827794 | 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 |
| | PSR073FL0800 | PSR073FL0800Z | 07945827772 | PSR073FS0800 | PSR073FS0800Z | 07945827795 | 2 pcs/box |
| | PSR073FL0900 | PSR073FL0900Z | 07945827773 | PSR073FS0900 | PSR073FS0900Z | 07945827796 | 2 pcs/box |
| | PSR073FL1000 | PSR073FL1000Z | 07945827774 | PSR073FS1000 | PSR073FS1000Z | 07945827797 | 2 pcs/box |
| | PSR073FL1100 | PSR073FL1100Z | 07945827775 | PSR073FS1100 | PSR073FS1100Z | 07945827798 | 2 pcs/box |
| | PSR073FL1250 | PSR073FL1250Z | 07945827776 | PSR073FS1250 | PSR073FS1250Z | 07945827799 | 2 pcs/box |
| | PSR073FL1400 | PSR073FL1400Z | 07945827777 | PSR073FS1400 | PSR073FS1400Z | 07945827800 | 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 (0.7) | 47.7 (1.88) | 77.9 (3.07) | 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) | 48.5 (1.91) | 86.4 (3.40) | 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 (0.9) | 49.2 (1.94) | 94.9 (3.74) | 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 (1.2) | 49.5 (1.95) | 108.4 (4.27) | 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 (0.7) | 71.7 (2.82) | 77.9 (3.07) | 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 (0.8) | 72.5 (2.85) | 86.4 (3.40) | 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 (0.9) | 73.2 (2.88) | 94.9 (3.736) | 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 (1.2) | 73.5 (2.89) | 108.4 (4.27) | M12 x 1.75 | 1/2"–13 UNC 2B | 45–55 Nm |


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# POWR-*SPEED*® Fuses

## PSR SERIES HIGH-SPEED SQUARE BODY BOLTED BLADE

Semiconductor Fuses • Bolted Blade • 40 A—2250 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.

The PSR series with bolted blades is designed and tested to IEC 60269-4.

Littelfuse POWR-*SPEED*® PSR series products offer optimized circuit protection at the extremely fast speed required to protect modern day power conversion devices. Available in bolted blade style termination (typical in North American market) with visual blown fuse indication standard on all fuses and optional micro-switch for external indication.

## Features/Benefits

- Best in class dc performance
- Extremely current limiting
- Superior cycling capability
- Visual and optional microswitch fuse blown indication
- Low watt-loss design
- Compliance with US and Canadian requirements
- Fast-acting Class aR performance

## 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 Rating** | Ac: 450 V–1300 V<br>Dc: 450 V–1000 V |
| **Amperage Rating** | 40 A–2250 A |
| **Interrupting Rating** | Ac: 100 kA–200 kA<br>Dc: 150 kA |
| **Time Constant** | 10 ms at IR |
| **Microswitch** | Yes |
| **Mounting** | Bolted blade style |
| **Material** | Body: ceramic<br>Contacts: plated copper |
| **Approvals** | cURus Recognized (File: E71611) |
| **Applicable Standards** | UL 248-13 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 US 0550 Z**

- **Series**
- **Case Size**: 30, 31, 32, 33, 70, 71, 72, 73
- **Termination**: US = bolted short blade; UL = bolted long blade
- **Amperage**
- **Packing Quantity**: X = (1 pc/box); Z = (3 pcs/box)

## Catalog Number

| SERIES | CASE SIZE | TERMINATION | AMPERAGE | CATALOG NUMBER | ORDERING PART NUMBER |
|---|---|---|---|---|---|
| PSR | 030 | US | 0550 | PSR030US0550 | PSR030US0550Z |

## 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.*


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## Electrical Characteristics

| CASE SIZE | CATALOG NUMBER | | AMPERE 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BOLTED SHORT BLADE (US) | BOLTED LONG BLADE (UL) | | AC | | DC | AC | DC | | AC | DC | | cURus |
| | | | | IEC | UL | | | | | | | | |
| 30 | PSR030US0040 | PSR030UL0040 | 40 | 690 | 700 | 600 | 200 kA | 150 kA | 76 | 280 | 260 | 13 | • |
| | PSR030US0050 | PSR030UL0050 | 50 | 690 | 700 | 600 | 200 kA | 150 kA | 110 | 598 | 384 | 16 | • |
| | PSR030US0063 | PSR030UL0063 | 63 | 690 | 700 | 600 | 200 kA | 150 kA | 176 | 1023 | 640 | 20 | • |
| | PSR030US0080 | PSR030UL0080 | 80 | 690 | 700 | 600 | 200 kA | 150 kA | 304 | 1728 | 1252 | 24 | • |
| | PSR030US0100 | PSR030UL0100 | 100 | 690 | 700 | 600 | 200 kA | 150 kA | 437 | 2835 | 1575 | 28 | • |
| | PSR030US0125 | PSR030UL0125 | 125 | 690 | 700 | 600 | 200 kA | 150 kA | 707 | 4684 | 2783 | 37 | • |
| | PSR030US0160 | PSR030UL0160 | 160 | 690 | 700 | 600 | 200 kA | 150 kA | 1359 | 9114 | 5507 | 40 | • |
| | PSR030US0200 | PSR030UL0200 | 200 | 690 | 700 | 600 | 200 kA | 150 kA | 3012 | 15169 | 14700 | 40 | • |
| | PSR030US0250 | PSR030UL0250 | 250 | 690 | 700 | 600 | 200 kA | 150 kA | 4668 | 29952 | 20833 | 52 | • |
| | PSR030US0315 | PSR030UL0315 | 315 | 690 | 700 | 600 | 200 kA | 150 kA | 7131 | 61830 | 31600 | 64 | • |
| | PSR030US0350 | PSR030UL0350 | 350 | 690 | 700 | 600 | 200 kA | 150 kA | 12007 | 85320 | 49273 | 66 | • |
| | PSR030US0400 | PSR030UL0400 | 400 | 690 | 700 | 600 | 200 kA | 150 kA | 16209 | 114750 | 63367 | 78 | • |
| | PSR030US0450 | PSR030UL0450 | 450 | 690 | 700 | 600 | 200 kA | 150 kA | 23133 | 160110 | 93533 | 80 | • |
| | PSR030US0500 | PSR030UL0500 | 500 | 690 | 700 | 600 | 200 kA | 150 kA | 31429 | 225180 | 137333 | 84 | • |
| | PSR030US0550 | PSR030UL0550 | 550 | 690 | 700 | 600 | 200 kA | 150 kA | 44323 | 268920 | 145400 | 85 | • |
| | PSR030US0630 | PSR030UL0630 | 630 | 690 | 700 | 550 | 200 kA | 150 kA | 57404 | 480010 | 267800 | 91 | • |
| 31 | PSR031US0200 | PSR031UL0200 | 200 | 690 | 700 | 600 | 200 kA | 150 kA | 1965 | 17334 | 16188 | 49 | • |
| | PSR031US0250 | PSR031UL0250 | 250 | 690 | 700 | 600 | 200 kA | 150 kA | 3789 | 35343 | 21080 | 52 | • |
| | PSR031US0315 | PSR031UL0315 | 315 | 690 | 700 | 600 | 200 kA | 150 kA | 6862 | 59130 | 30694 | 63 | • |
| | PSR031US0350 | PSR031UL0350 | 350 | 690 | 700 | 600 | 200 kA | 150 kA | 9523 | 76140 | 40996 | 67 | • |
| | PSR031US0400 | PSR031UL0400 | 400 | 690 | 700 | 600 | 200 kA | 150 kA | 14770 | 124335 | 64359 | 70 | • |
| | PSR031US0450 | PSR031UL0450 | 450 | 690 | 700 | 600 | 200 kA | 150 kA | 22457 | 178200 | 97444 | 70 | • |
| | PSR031US0500 | PSR031UL0500 | 500 | 690 | 700 | 600 | 200 kA | 150 kA | 29751 | 251505 | 125935 | 74 | • |
| | PSR031US0550 | PSR031UL0550 | 550 | 690 | 700 | 600 | 200 kA | 150 kA | 42056 | 289170 | 171845 | 86 | • |
| | PSR031US0630 | PSR031UL0630 | 630 | 690 | 700 | 600 | 200 kA | 150 kA | 73513 | 507465 | 276315 | 87 | • |
| | PSR031US0700 | PSR031UL0700 | 700 | 690 | 700 | 600 | 200 kA | 150 kA | 98187 | 601425 | 337260 | 93 | • |
| | PSR031US0800 | PSR031UL0800 | 800 | 690 | 700 | 600 | 200 kA | 150 kA | 137208 | 848880 | 502815 | 107 | • |
| | PSR031US0900 | PSR031UL0900 | 900 | 550 | 600 | 550 | 200 kA | 150 kA | 155163 | 945100 | 631820 | 126 | • |
| 32 | PSR032US0400 | PSR032UL0400 | 400 | 690 | 700 | 600 | 200 kA | 150 kA | 11104 | 79650 | 44533 | 87 | • |
| | PSR032US0450 | PSR032UL0450 | 450 | 690 | 700 | 600 | 200 kA | 150 kA | 15535 | 116100 | 65463 | 88 | • |
| | PSR032US0500 | PSR032UL0500 | 500 | 690 | 700 | 600 | 200 kA | 150 kA | 21573 | 161460 | 88277 | 94 | • |
| | PSR032US0550 | PSR032UL0550 | 550 | 690 | 700 | 600 | 200 kA | 150 kA | 26327 | 177660 | 107960 | 106 | • |
| | PSR032US0630 | PSR032UL0630 | 630 | 690 | 700 | 600 | 200 kA | 150 kA | 34790 | 234900 | 156963 | 114 | • |
| | PSR032US0700 | PSR032UL0700 | 700 | 690 | 700 | 600 | 200 kA | 150 kA | 51191 | 291870 | 209287 | 127 | • |
| | PSR032US0800 | PSR032UL0800 | 800 | 690 | 700 | 600 | 200 kA | 150 kA | 60125 | 472770 | 249000 | 152 | • |
| | PSR032US0900 | PSR032UL0900 | 900 | 690 | 700 | 600 | 200 kA | 150 kA | 107785 | 764100 | 404000 | 145 | • |
| | PSR032US1000 | PSR032UL1000 | 1000 | 690 | 700 | 600 | 200 kA | 150 kA | 190102 | 933120 | 672333 | 149 | • |
| | PSR032US1100 | PSR032UL1100 | 1100 | 690 | 700 | 600 | 200 kA | 150 kA | 225379 | 1247400 | 744000 | 161 | • |
| | PSR032US1250 | PSR032UL1250 | 1250 | 550 | 500* | 450* | 200 kA | 150 kA | 336661 | 1114994 | 1197000 | 166 | • |
| | PSR032US1400 | PSR032UL1400 | 1400 | 450 | 500 | 450 | 200 kA | 150 kA | 551749 | 1611639 | 1865400 | 184 | • |
| | PSR032US1500 | PSR032UL1500 | 1500 | 450 | 500 | 450 | 200 kA | 150 kA | 673360 | 2045907 | 1735500 | 192 | • |
| 33 | PSR033US0450 | PSR033UL0450 | 450 | 690 | 700 | 600 | 200 kA | 150 kA | 13600 | 106380 | 58947 | 107 | • |
| | PSR033US0500 | PSR033UL0500 | 500 | 690 | 700 | 600 | 200 kA | 150 kA | 16434 | 140400 | 77846 | 107 | • |
| | PSR033US0550 | PSR033UL0550 | 550 | 690 | 700 | 600 | 200 kA | 150 kA | 23314 | 187650 | 100461 | 111 | • |
| | PSR033US0630 | PSR033UL0630 | 630 | 690 | 700 | 600 | 200 kA | 150 kA | 38727 | 285930 | 142437 | 120 | • |
| | PSR033US0700 | PSR033UL0700 | 700 | 690 | 700 | 600 | 200 kA | 150 kA | 56763 | 392580 | 209863 | 116 | • |
| | PSR033US0800 | PSR033UL0800 | 800 | 690 | 700 | 600 | 200 kA | 150 kA | 84691 | 575505 | 348500 | 122 | • |
| | PSR033US0900 | PSR033UL0900 | 900 | 690 | 700 | 600 | 200 kA | 150 kA | 122619 | 740340 | 451177 | 138 | • |
| | PSR033US1000 | PSR033UL1000 | 1000 | 690 | 700 | 600 | 200 kA | 150 kA | 222350 | 1170450 | 787750 | 138 | • |
| | PSR033US1100 | PSR033UL1100 | 1100 | 690 | 700 | 600 | 200 kA | 150 kA | 310824 | 1568700 | 821400 | 138 | • |
| | PSR033US1250 | PSR033UL1250 | 1250 | 690 | 700 | 500 | 200 kA | 150 kA | 476902 | 2403000 | 1674333 | 145 | • |
| | PSR033US1400 | PSR033UL1400 | 1400 | 690 | 700 | 500 | 200 kA | 150 kA | 583552 | 2920050 | 1979750 | 173 | • |
| | PSR033US1500 | PSR033UL1500 | 1500 | 600 | 650 | 500 | 200 kA | 150 kA | 674538 | 2433200 | 1996733 | 182 | • |
| | PSR033US1600 | PSR033UL1600 | 1600 | 600 | 650 | 500 | 200 kA | 150 kA | 779948 | 2942800 | 2301633 | 208 | • |
| | PSR033US1800 | PSR033UL1800 | 1800 | 600 | 650 | 500 | 200 kA | 150 kA | 952196 | 3785040 | 2724180 | 260 | • |
| | PSR033US2000 | PSR033UL2000 | 2000 | 550 | 600 | 480 | 200 kA | 150 kA | 1234315 | 4131600 | 3755180 | 264 | • |
| | PSR033US2250 | PSR033UL2250 | 2250 | 500 | 550 | 450 | 200 kA | 150 kA | 1236000 | 4459651 | 3859500 | 349 | • |

* PSR032 1250 A: 600 V Ac/550 V Dc


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## Electrical Characteristics (cont.)

| CASE SIZE | CATALOG NUMBER | AMPERE 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 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | BOLTED LONG BLADE (UL) | | AC | | DC | AC | DC | | AC | DC | | cURus |
| | | | IEC | UL | | | | | | | | |
| 70 | PSR070UL0050 | 50 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 177 | 2050 | 400 | 21 | • |
| | PSR070UL0063 | 63 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 273 | 3399 | 900 | 24 | • |
| | PSR070UL0080 | 80 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 583 | 6732 | 2200 | 25 | • |
| | PSR070UL0100 | 100 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 974 | 10996 | 3750 | 30 | • |
| | PSR070UL0125 | 125 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 1352 | 13011 | 5150 | 44 | • |
| | PSR070UL0160 | 160 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 2377 | 25662 | 8950 | 53 | • |
| | PSR070UL0200 | 200 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 4177 | 39087 | 17267 | 62 | • |
| | PSR070UL0250 | 250 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 8629 | 89790 | 36750 | 73 | • |
| | PSR070UL0280 | 280 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 11844 | 113201 | 46750 | 77 | • |
| | PSR070UL0315 | 315 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 18162 | 142051 | 66833 | 80 | • |
| | PSR070UL0350 | 350 | 1250 | 1200* | 900* | 100 kA | 150 kA | 22963 | 215230 | 95410 | 76 | • |
| | PSR070UL0400 | 400 | 1100 | 1200 | 900 | 100 kA | 150 kA | 37103 | 283480 | 154320 | 78 | • |
| 71 | PSR071UL0160 | 160 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 2756 | 24600 | 8800 | 45 | • |
| | PSR071UL0200 | 200 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 4918 | 50307 | 19050 | 52 | • |
| | PSR071UL0250 | 250 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 10592 | 104427 | 43100 | 55 | • |
| | PSR071UL0280 | 280 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 13763 | 131897 | 54150 | 58 | • |
| | PSR071UL0315 | 315 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 20882 | 200244 | 67450 | 59 | • |
| | PSR071UL0350 | 350 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 23301 | 225500 | 102500 | 70 | • |
| | PSR071UL0400 | 400 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 43211 | 374986 | 185000 | 76 | • |
| | PSR071UL0450 | 450 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 55915 | 452394 | 241333 | 88 | • |
| | PSR071UL0500 | 500 | 1100 | 1200 | 900 | 100 kA | 150 kA | 75315 | 468845 | 253960 | 93 | • |
| | PSR071UL0550 | 550 | 1100 | 1200 | 900 | 100 kA | 150 kA | 87328 | 693507 | 332600 | 90 | • |
| | PSR071UL0630 | 630 | 1000 | 1100 | 900 | 100 kA | 150 kA | 131240 | 790862 | 426550 | 103 | • |
| 72 | PSR072UL0250 | 250 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 7737 | 72789 | 28567 | 64 | • |
| | PSR072UL0280 | 280 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 10915 | 124538 | 46897 | 62 | • |
| | PSR072UL0315 | 315 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 16187 | 145140 | 58867 | 69 | • |
| | PSR072UL0350 | 350 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 18727 | 160447 | 69633 | 81 | • |
| | PSR072UL0400 | 400 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 27112 | 243540 | 108000 | 93 | • |
| | PSR072UL0450 | 450 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 35927 | 406413 | 159133 | 107 | • |
| | PSR072UL0500 | 500 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 50398 | 425375 | 216333 | 115 | • |
| | PSR072UL0550 | 550 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 73858 | 539833 | 271333 | 115 | • |
| | PSR072UL0630 | 630 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 126126 | 942180 | 436000 | 119 | • |
| | PSR072UL0700 | 700 | 1100 | 1200 | 900** | 100 kA | 150 kA | 228761 | 1123694 | 715180 | 89 | • |
| | PSR072UL0800 | 800 | 1100 | 1200 | 900** | 100 kA | 150 kA | 230695 | 1432388 | 911650 | 129 | • |
| | PSR072UL0900 | 900 | 1000 | 900* | 900** | 100 kA | 150 kA | 376641 | 1309993 | 1030400 | 131 | • |
| | PSR072UL1000 | 1000 | 850 | 900 | 800** | 100 kA | 150 kA | 455955 | 1772548 | 1361500 | 156 | • |
| 73 | PSR073UL0315 | 315 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 10245 | 106600 | 38650 | 100 | • |
| | PSR073UL0350 | 350 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 13586 | 159627 | 57467 | 100 | • |
| | PSR073UL0400 | 400 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 19797 | 211273 | 86800 | 124 | • |
| | PSR073UL0450 | 450 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 29834 | 279073 | 114333 | 122 | • |
| | PSR073UL0500 | 500 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 42751 | 416437 | 184500 | 121 | • |
| | PSR073UL0550 | 550 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 55513 | 491713 | 224500 | 130 | • |
| | PSR073UL0630 | 630 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 94649 | 804338 | 377500 | 136 | • |
| | PSR073UL0700 | 700 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 158097 | 1170960 | 575667 | 135 | • |
| | PSR073UL0800 | 800 | 1250 | 1300 | 1000** | 100 kA | 150 kA | 234943 | 1769880 | 733460 | 128 | • |
| | PSR073UL0900 | 900 | 950 | 1050 | 800** | 100 kA | 150 kA | 317743 | 2280547 | 901779 | 156 | • |
| | PSR073UL1000 | 1000 | 950 | 1050 | 800** | 100 kA | 150 kA | 476221 | 3910801 | 1546418 | 143 | • |
| | PSR073UL1100 | 1100 | 950 | 1050 | 800** | 100 kA | 150 kA | 570870 | 2736600 | 1699000 | 165 | • |
| | PSR073UL1250 | 1250 | 900 | 1000 | - | 100 kA | - | 993924 | 3091160 | - | 197 | • |
| | PSR073UL1400 | 1400 | 900 | 1000 | - | 100 kA | - | 1168091 | 3627820 | - | 249 | • |

* PSR070 350 A: 1300 V Ac/1000 V Dc
PSR072 900 A: 1100 V Ac

** No UL certification for Dc voltage


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## Ordering Information

| CASE SIZE | BOLTED SHORT BLADE (US) | | | BOLTED LONG BLADE (UL) | | | BOX QUANTITY |
|---|---|---|---|---|---|---|---|
| | CATALOG NUMBER | ORDERING PART NUMBER | UPC | CATALOG NUMBER | ORDERING PART NUMBER | UPC | |
| 30 | PSR030US0040 | PSR030US0040Z | 07945825195 | PSR030UL0040 | PSR030UL0040Z | 07945825246 | 3 pcs/box |
| | PSR030US0050 | PSR030US0050Z | 07945825196 | PSR030UL0050 | PSR030UL0050Z | 07945825247 | 3 pcs/box |
| | PSR030US0063 | PSR030US0063Z | 07945825197 | PSR030UL0063 | PSR030UL0063Z | 07945825248 | 3 pcs/box |
| | PSR030US0080 | PSR030US0080Z | 07945825198 | PSR030UL0080 | PSR030UL0080Z | 07945825249 | 3 pcs/box |
| | PSR030US0100 | PSR030US0100Z | 07945825199 | PSR030UL0100 | PSR030UL0100Z | 07945825250 | 3 pcs/box |
| | PSR030US0125 | PSR030US0125Z | 07945825200 | PSR030UL0125 | PSR030UL0125Z | 07945825251 | 3 pcs/box |
| | PSR030US0160 | PSR030US0160Z | 07945825201 | PSR030UL0160 | PSR030UL0160Z | 07945825252 | 3 pcs/box |
| | PSR030US0200 | PSR030US0200Z | 07945825202 | PSR030UL0200 | PSR030UL0200Z | 07945825253 | 3 pcs/box |
| | PSR030US0250 | PSR030US0250Z | 07945825203 | PSR030UL0250 | PSR030UL0250Z | 07945825254 | 3 pcs/box |
| | PSR030US0315 | PSR030US0315Z | 07945825204 | PSR030UL0315 | PSR030UL0315Z | 07945825255 | 3 pcs/box |
| | PSR030US0350 | PSR030US0350Z | 07945825205 | PSR030UL0350 | PSR030UL0350Z | 07945825256 | 3 pcs/box |
| | PSR030US0400 | PSR030US0400Z | 07945825206 | PSR030UL0400 | PSR030UL0400Z | 07945825257 | 3 pcs/box |
| | PSR030US0450 | PSR030US0450Z | 07945825207 | PSR030UL0450 | PSR030UL0450Z | 07945825258 | 3 pcs/box |
| | PSR030US0500 | PSR030US0500Z | 07945825208 | PSR030UL0500 | PSR030UL0500Z | 07945825259 | 3 pcs/box |
| | PSR030US0550 | PSR030US0550Z | 07945825209 | PSR030UL0550 | PSR030UL0550Z | 07945825260 | 3 pcs/box |
| | PSR030US0630 | PSR030US0630Z | 07945828549 | PSR030UL0630 | PSR030UL0630Z | 07945827828 | 3 pcs/box |
| 31 | PSR031US0200 | PSR031US0200Z | 07945825210 | PSR031UL0200 | PSR031UL0200Z | 07945825261 | 3 pcs/box |
| | PSR031US0250 | PSR031US0250Z | 07945825211 | PSR031UL0250 | PSR031UL0250Z | 07945825262 | 3 pcs/box |
| | PSR031US0315 | PSR031US0315Z | 07945825212 | PSR031UL0315 | PSR031UL0315Z | 07945825263 | 3 pcs/box |
| | PSR031US0350 | PSR031US0350Z | 07945825213 | PSR031UL0350 | PSR031UL0350Z | 07945825264 | 3 pcs/box |
| | PSR031US0400 | PSR031US0400Z | 07945825214 | PSR031UL0400 | PSR031UL0400Z | 07945825265 | 3 pcs/box |
| | PSR031US0450 | PSR031US0450Z | 07945825215 | PSR031UL0450 | PSR031UL0450Z | 07945825266 | 3 pcs/box |
| | PSR031US0500 | PSR031US0500Z | 07945825216 | PSR031UL0500 | PSR031UL0500Z | 07945825267 | 3 pcs/box |
| | PSR031US0550 | PSR031US0550Z | 07945825217 | PSR031UL0550 | PSR031UL0550Z | 07945825268 | 3 pcs/box |
| | PSR031US0630 | PSR031US0630Z | 07945825218 | PSR031UL0630 | PSR031UL0630Z | 07945825269 | 3 pcs/box |
| | PSR031US0700 | PSR031US0700Z | 07945825219 | PSR031UL0700 | PSR031UL0700Z | 07945825270 | 3 pcs/box |
| | PSR031US0800 | PSR031US0800Z | 07945825220 | PSR031UL0800 | PSR031UL0800Z | 07945825271 | 3 pcs/box |
| | PSR031US0900 | PSR031US0900Z | 07945828550 | PSR031UL0900 | PSR031UL0900Z | 07945827829 | 3 pcs/box |
| 32 | PSR032US0400 | PSR032US0400X | 07945825221 | PSR032UL0400 | PSR032UL0400X | 07945825272 | 1 pc/box |
| | PSR032US0450 | PSR032US0450X | 07945825222 | PSR032UL0450 | PSR032UL0450X | 07945825273 | 1 pc/box |
| | PSR032US0500 | PSR032US0500X | 07945825223 | PSR032UL0500 | PSR032UL0500X | 07945825274 | 1 pc/box |
| | PSR032US0550 | PSR032US0550X | 07945825224 | PSR032UL0550 | PSR032UL0550X | 07945825275 | 1 pc/box |
| | PSR032US0630 | PSR032US0630X | 07945825225 | PSR032UL0630 | PSR032UL0630X | 07945825276 | 1 pc/box |
| | PSR032US0700 | PSR032US0700X | 07945825226 | PSR032UL0700 | PSR032UL0700X | 07945825277 | 1 pc/box |
| | PSR032US0800 | PSR032US0800X | 07945825227 | PSR032UL0800 | PSR032UL0800X | 07945825278 | 1 pc/box |
| | PSR032US0900 | PSR032US0900X | 07945825228 | PSR032UL0900 | PSR032UL0900X | 07945825279 | 1 pc/box |
| | PSR032US1000 | PSR032US1000X | 07945825229 | PSR032UL1000 | PSR032UL1000X | 07945825280 | 1 pc/box |
| | PSR032US1100 | PSR032US1100X | 07945825230 | PSR032UL1100 | PSR032UL1100X | 07945825281 | 1 pc/box |
| | PSR032US1250 | PSR032US1250X | 07945828551 | PSR032UL1250 | PSR032UL1250X | 07945827830 | 1 pc/box |
| | PSR032US1400 | PSR032US1400X | 07945828552 | PSR032UL1400 | PSR032UL1400X | 07945828531 | 1 pc/box |
| | PSR032US1500 | PSR032US1500X | 07945828553 | PSR032UL1500 | PSR032UL1500X | 07945828532 | 1 pc/box |
| 33 | PSR033US0450 | PSR033US0450X | 07945825231 | PSR033UL0450 | PSR033UL0450X | 07945825282 | 1 pc/box |
| | PSR033US0500 | PSR033US0500X | 07945825232 | PSR033UL0500 | PSR033UL0500X | 07945825283 | 1 pc/box |
| | PSR033US0550 | PSR033US0550X | 07945825233 | PSR033UL0550 | PSR033UL0550X | 07945825284 | 1 pc/box |
| | PSR033US0630 | PSR033US0630X | 07945825234 | PSR033UL0630 | PSR033UL0630X | 07945825285 | 1 pc/box |
| | PSR033US0700 | PSR033US0700X | 07945825235 | PSR033UL0700 | PSR033UL0700X | 07945825286 | 1 pc/box |
| | PSR033US0800 | PSR033US0800X | 07945825236 | PSR033UL0800 | PSR033UL0800X | 07945825287 | 1 pc/box |
| | PSR033US0900 | PSR033US0900X | 07945825237 | PSR033UL0900 | PSR033UL0900X | 07945825288 | 1 pc/box |
| | PSR033US1000 | PSR033US1000X | 07945825238 | PSR033UL1000 | PSR033UL1000X | 07945825289 | 1 pc/box |
| | PSR033US1100 | PSR033US1100X | 07945825239 | PSR033UL1100 | PSR033UL1100X | 07945825290 | 1 pc/box |
| | PSR033US1250 | PSR033US1250X | 07945825240 | PSR033UL1250 | PSR033UL1250X | 07945825291 | 1 pc/box |
| | PSR033US1400 | PSR033US1400X | 07945825241 | PSR033UL1400 | PSR033UL1400X | 07945825292 | 1 pc/box |
| | PSR033US1500 | PSR033US1500X | 07945825242 | PSR033UL1500 | PSR033UL1500X | 07945825293 | 1 pc/box |
| | PSR033US1600 | PSR033US1600X | 07945825243 | PSR033UL1600 | PSR033UL1600X | 07945825294 | 1 pc/box |
| | PSR033US1800 | PSR033US1800X | 07945825244 | PSR033UL1800 | PSR033UL1800X | 07945825295 | 1 pc/box |
| | PSR033US2000 | PSR033US2000X | 07945825245 | PSR033UL2000 | PSR033UL2000X | 07945825296 | 1 pc/box |
| | PSR033US2250 | PSR033US2250X | 07945828554 | PSR033UL2250 | PSR033UL2250X | 07945828533 | 1 pc/box |

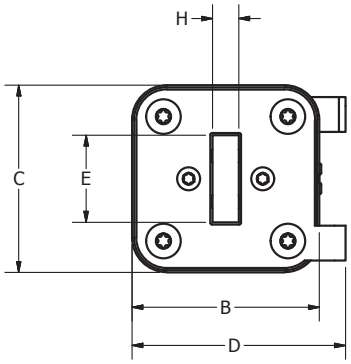

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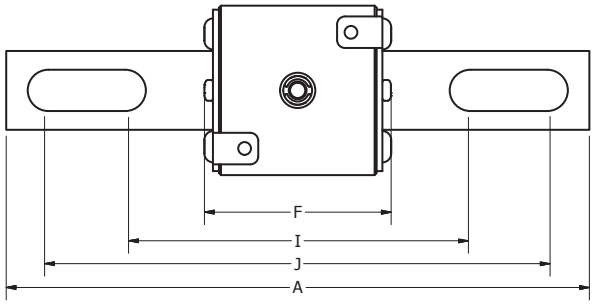
## Ordering Information (cont.)

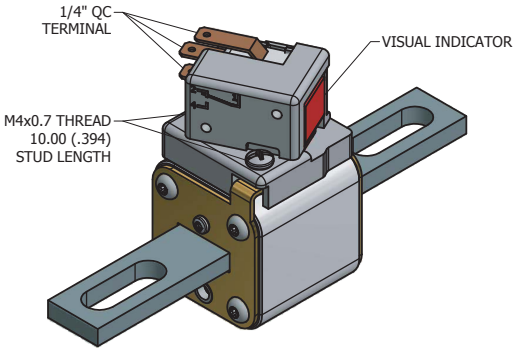
| CASE SIZE | BOLTED LONG BLADE (UL) | | | BOX QUANTITY |
|---|---|---|---|---|
| | CATALOG NUMBER | ORDERING PART NUMBER | UPC | |
| 70 | PSR070UL0050 | PSR070UL0050Z | 07945825297 | 3 pcs/box |
| | PSR070UL0063 | PSR070UL0063Z | 07945825298 | 3 pcs/box |
| | PSR070UL0080 | PSR070UL0080Z | 07945825299 | 3 pcs/box |
| | PSR070UL0100 | PSR070UL0100Z | 07945825300 | 3 pcs/box |
| | PSR070UL0125 | PSR070UL0125Z | 07945825301 | 3 pcs/box |
| | PSR070UL0160 | PSR070UL0160Z | 07945825302 | 3 pcs/box |
| | PSR070UL0200 | PSR070UL0200Z | 07945825303 | 3 pcs/box |
| | PSR070UL0250 | PSR070UL0250Z | 07945825304 | 3 pcs/box |
| | PSR070UL0280 | PSR070UL0280Z | 07945825305 | 3 pcs/box |
| | PSR070UL0315 | PSR070UL0315Z | 07945825306 | 3 pcs/box |
| | PSR070UL0350 | PSR070UL0350Z | 07945828534 | 3 pcs/box |
| | PSR070UL0400 | PSR070UL0400Z | 07945828535 | 3 pcs/box |
| 71 | PSR071UL0160 | PSR071UL0160Z | 07945825307 | 3 pcs/box |
| | PSR071UL0200 | PSR071UL0200Z | 07945825308 | 3 pcs/box |
| | PSR071UL0250 | fPSR071UL0250Z | 07945825309 | 3 pcs/box |
| | PSR071UL0280 | PSR071UL0280Z | 07945825310 | 3 pcs/box |
| | PSR071UL0315 | PSR071UL0315Z | 07945825311 | 3 pcs/box |
| | PSR071UL0350 | PSR071UL0350Z | 07945825312 | 3 pcs/box |
| | PSR071UL0400 | PSR071UL0400Z | 07945825313 | 3 pcs/box |
| | PSR071UL0450 | PSR071UL0450Z | 07945825314 | 3 pcs/box |
| | PSR071UL0500 | PSR071UL0500Z | 07945828536 | 3 pcs/box |
| | PSR071UL0550 | PSR071UL0550Z | 07945828537 | 3 pcs/box |
| | PSR071UL0630 | PSR071UL0630Z | 07945828538 | 3 pcs/box |
| 72 | PSR072UL0250 | PSR072UL0250X | 07945825315 | 1 pc/box |
| | PSR072UL0280 | PSR072UL0280X | 07945825316 | 1 pc/box |
| | PSR072UL0315 | PSR072UL0315X | 07945825317 | 1 pc/box |
| | PSR072UL0350 | PSR072UL0350X | 07945825318 | 1 pc/box |
| | PSR072UL0400 | PSR072UL0400X | 07945825319 | 1 pc/box |
| | PSR072UL0450 | PSR072UL0450X | 07945825320 | 1 pc/box |
| | PSR072UL0500 | PSR072UL0500X | 07945825321 | 1 pc/box |
| | PSR072UL0550 | PSR072UL0550X | 07945825322 | 1 pc/box |
| | PSR072UL0630 | PSR072UL0630X | 07945825323 | 1 pc/box |
| | PSR072UL0700 | PSR072UL0700X | 07945828539 | 1 pc/box |
| | PSR072UL0800 | PSR072UL0800X | 07945828540 | 1 pc/box |
| | PSR072UL0900 | PSR072UL0900X | 07945828541 | 1 pc/box |
| | PSR072UL1000 | PSR072UL1000X | 07945828542 | 1 pc/box |
| 73 | PSR073UL0315 | PSR073UL0315X | 07945825324 | 1 pc/box |
| | PSR073UL0350 | PSR073UL0350X | 07945825325 | 1 pc/box |
| | PSR073UL0400 | PSR073UL0400X | 07945825326 | 1 pc/box |
| | PSR073UL0450 | PSR073UL0450X | 07945825327 | 1 pc/box |
| | PSR073UL0500 | PSR073UL0500X | 07945825328 | 1 pc/box |
| | PSR073UL0550 | PSR073UL0550X | 07945825329 | 1 pc/box |
| | PSR073UL0630 | PSR073UL0630X | 07945825330 | 1 pc/box |
| | PSR073UL0700 | PSR073UL0700X | 07945825331 | 1 pc/box |
| | PSR073UL0800 | PSR073UL0800X | 07945828543 | 1 pc/box |
| | PSR073UL0900 | PSR073UL0900X | 07945828544 | 1 pc/box |
| | PSR073UL1000 | PSR073UL1000X | 07945828545 | 1 pc/box |
| | PSR073UL1100 | PSR073UL1100X | 07945828546 | 1 pc/box |
| | PSR073UL1250 | PSR073UL1250X | 07945828547 | 1 pc/box |
| | PSR073UL1400 | PSR073UL1400X | 07945828548 | 1 pc/box |

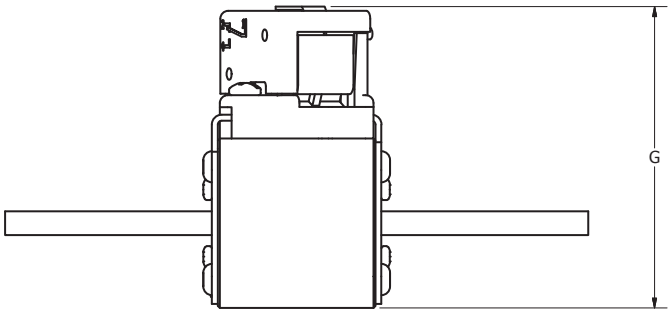

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## Dimensions (US and UL)




| DIMENSIONS MM (IN) | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CASE SIZE | MOUNTING STYLE | A | B | C | D | E | F | G | H | I | J | RECOMMENDED FASTENER | TIGHTENING TORQUE (REFERENCE ONLY) |
| 30 | Short [US] | 127.2 (5.01) | 43.0 (1.69) | 43.0 (1.69) | 49.0 (1.93) | 20.0 (0.79) | 47.7 (1.88) | 77.9 (3.07) | 6.0 (0.24) | 69.5 (2.74) | 106.3 (4.19) | 10 mm (3/8) | 26 Nm |
| | Long [UL] | 148.0 (5.83) | 43.0 (1.69) | 43.0 (1.69) | 49.0 (1.93) | 20.0 (0.79) | 47.7 (1.88) | 77.9 (3.07) | 6.0 (0.24) | 88.5 (3.48) | 125.8 (4.95) | 10 mm (3/8) | 26 Nm |
| 31 | Short [US] | 133.2 (5.24) | 51.5 (2.03) | 51.5 (2.03) | 57.5 (2.26) | 25.0 (0.98) | 49.2 (1.94) | 86.4 (3.40) | 6.0 (0.24) | 68.8 (2.71) | 108.3 (4.26) | 12 mm (1/2) | 64 Nm |
| | Long [UL] | 153.2 (6.03) | 51.5 (2.03) | 51.5 (2.03) | 57.5 (2.26) | 25.0 (0.98) | 49.2 (1.94) | 86.4 (3.40) | 6.0 (0.24) | 92.3 (3.63) | 128.3 (5.05) | 12 mm (1/2) | 64 Nm |
| 32 | Short [US] | 133.2 (5.24) | 60.0 (2.36) | 60.0 (2.36) | 66.0 (2.60) | 25.0 (0.98) | 49.2 (1.94) | 94.9 (3.74) | 6.0 (0.24) | 68.8 (2.71) | 108.3 (4.26) | 12 mm (1/2) | 64 Nm |
| | Long [UL] | 153.2 (6.03) | 60.0 (2.36) | 60.0 (2.36) | 66.0 (2.60) | 25.0 (0.98) | 49.2 (1.94) | 94.9 (3.74) | 6.0 (0.24) | 92.3 (3.63) | 128.3 (5.05) | 12 mm (1/2) | 64 Nm |
| 33 | Short [US] | 135.4 (5.33) | 73.5 (2.89) | 73.5 (2.89) | 79.5 (3.13) | 36.0 (1.42) | 50.2 (1.98) | 108.4 (4.27) | 6.0 (0.24) | 75.8 (2.98) | 107.3 (4.22) | 14 mm (9/16) | 92 Nm |
| | Long [UL] | 155.2 (6.11) | 73.5 (2.89) | 73.5 (2.89) | 79.5 (3.13) | 36.0 (1.42) | 50.2 (1.98) | 108.4 (4.27) | 6.0 (0.24) | 94.8 (3.73) | 126.3 (4.97) | 14 mm (9/16) | 92 Nm |
| 70 | Long [UL] | 151.2 (5.95) | 43.0 (1.69) | 43.0 (1.69) | 49.0 (1.93) | 20.0 (0.79) | 71.7 (2.82) | 77.9 (3.07) | 6.0 (0.24) | 92.8 (3.65) | 130.3 (5.13) | 10 mm (3/8) | 26 Nm |
| 71 | Long [UL] | 157.2 (6.19) | 51.5 (2.03) | 51.5 (2.03) | 57.5 (2.26) | 25.0 (0.98) | 73.2 (2.88) | 86.4 (3.40) | 6.0 (0.24) | 92.8 (3.65) | 132.3 (5.21) | 12 mm (1/2) | 64 Nm |
| 72 | Long [UL] | 157.2 (6.19) | 60.0 (2.36) | 60.0 (2.36) | 66.0 (2.60) | 25.0 (0.98) | 73.2 (2.88) | 94.9 (3.74) | 6.0 (0.24) | 92.8 (3.65) | 132.3 (5.21) | 12 mm (1/2) | 64 Nm |
| 73 | Long [UL] | 159.4 (6.28) | 73.5 (2.89) | 73.5 (2.89) | 79.5 (3.13) | 36.0 (1.42) | 74.2 (2.92) | 108.4 (4.27) | 6.0 (0.24) | 99.8 (3.93) | 131.3 (5.17) | 14 mm (9/16) | 92 Nm |


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# POWR-*SPEED*® Fuses

## PSR SERIES HIGH-SPEED SQUARE BODY DIN BLADE

Semiconductor Fuses • DIN 43653 Blade • 40 A—2250 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. Available in DIN43653 blade style termination with visual blown fuse indication standard on all fuses and optional micro-switch for external indication.

## Features/Benefits

- Best in class dc performance
- Extremely current limiting
- Superior cycling capability
- Global certification cURus, CCC*, IEC
- Visual and optional microswitch fuse blown indication
- Low watt-loss design
- Compliance with US and Canadian requirements
- Fast-acting Class aR performance

## 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

* Refer to CCC section of Electrical Characteristics table

## Specifications

| | |
|---|---|
| **Voltage Rating** | Ac: 450 V–1300 V<br>Dc: 450 V–1000 V |
| **Amperage Rating** | 40 A–2250 A |
| **Interrupting Rating** | Ac: 100 kA–200 kA<br>Dc: 150 kA |
| **Time Constant** | 10 ms at IR |
| **Microswitch** | Yes |
| **Mounting** | DIN 43653 blade style |
| **Material** | Body: ceramic<br>Contacts: plated copper |
| **Approvals** | cURus Recognized (File: E71611)<br>CCC (Ac voltage) * |
| **Applicable Standards** | 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 DS 0550 Z**

**Series**

**Case Size**
30, 31, 32, 33, 70, 71, 72, 73

**Termination**
DS = DIN 80 mm fixing
DL = DIN 110 mm fixing

**Amperage**

**Packing Quantity**
X = (1 pc/box)
Z = (3 pcs/box)

## Catalog Number

| SERIES | CASE SIZE | TERMINATION | AMPERAGE | CATALOG NUMBER | ORDERING PART NUMBER |
|---|---|---|---|---|---|
| PSR | 030 | DS | 0550 | PSR030DS0550 | PSR030DS0550Z |

## 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.*


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## Electrical Characteristics

| CASE SIZE | CATALOG NUMBER | | AMPERE 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 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DIN 80 MM FIXING (DS) | DIN 110 MM FIXING (DL) | | AC | | DC | AC | DC | | AC | DC | | cURus | CCC |
| | | | | IEC | UL | | | | | | | | | |
| 30 | PSR030DS0040 | PSR030DL0040 | 40 | 690 | 700 | 600 | 200 kA | 150 kA | 76 | 280 | 260 | 13 | • | • |
| | PSR030DS0050 | PSR030DL0050 | 50 | 690 | 700 | 600 | 200 kA | 150 kA | 110 | 598 | 384 | 16 | • | • |
| | PSR030DS0063 | PSR030DL0063 | 63 | 690 | 700 | 600 | 200 kA | 150 kA | 176 | 1023 | 640 | 20 | • | • |
| | PSR030DS0080 | PSR030DL0080 | 80 | 690 | 700 | 600 | 200 kA | 150 kA | 304 | 1728 | 1252 | 24 | • | • |
| | PSR030DS0100 | PSR030DL0100 | 100 | 690 | 700 | 600 | 200 kA | 150 kA | 437 | 2835 | 1575 | 28 | • | • |
| | PSR030DS0125 | PSR030DL0125 | 125 | 690 | 700 | 600 | 200 kA | 150 kA | 707 | 4684 | 2783 | 37 | • | • |
| | PSR030DS0160 | PSR030DL0160 | 160 | 690 | 700 | 600 | 200 kA | 150 kA | 1359 | 9114 | 5507 | 40 | • | • |
| | PSR030DS0200 | PSR030DL0200 | 200 | 690 | 700 | 600 | 200 kA | 150 kA | 3012 | 15169 | 14700 | 40 | • | • |
| | PSR030DS0250 | PSR030DL0250 | 250 | 690 | 700 | 600 | 200 kA | 150 kA | 4668 | 29952 | 20833 | 52 | • | • |
| | PSR030DS0315 | PSR030DL0315 | 315 | 690 | 700 | 600 | 200 kA | 150 kA | 7131 | 61830 | 31600 | 64 | • | • |
| | PSR030DS0350 | PSR030DL0350 | 350 | 690 | 700 | 600 | 200 kA | 150 kA | 12007 | 85320 | 49273 | 66 | • | • |
| | PSR030DS0400 | PSR030DL0400 | 400 | 690 | 700 | 600 | 200 kA | 150 kA | 16209 | 114750 | 63367 | 78 | • | • |
| | PSR030DS0450 | PSR030DL0450 | 450 | 690 | 700 | 600 | 200 kA | 150 kA | 23133 | 160110 | 93533 | 80 | • | • |
| | PSR030DS0500 | PSR030DL0500 | 500 | 690 | 700 | 600 | 200 kA | 150 kA | 31429 | 225180 | 137333 | 84 | • | • |
| | PSR030DS0550 | PSR030DL0550 | 550 | 690 | 700 | 600 | 200 kA | 150 kA | 44323 | 268920 | 145400 | 85 | • | • |
| | PSR030DS0630 | PSR030DL0630 | 630 | 690 | 700 | 550 | 200 kA | 150 kA | 57404 | 480010 | 267800 | 91 | • | |
| 31 | PSR031DS0200 | PSR031DL0200 | 200 | 690 | 700 | 600 | 200 kA | 150 kA | 1965 | 17334 | 16188 | 49 | • | • |
| | PSR031DS0250 | PSR031DL0250 | 250 | 690 | 700 | 600 | 200 kA | 150 kA | 3789 | 35343 | 21080 | 52 | • | • |
| | PSR031DS0315 | PSR031DL0315 | 315 | 690 | 700 | 600 | 200 kA | 150 kA | 6862 | 59130 | 30694 | 63 | • | • |
| | PSR031DS0350 | PSR031DL0350 | 350 | 690 | 700 | 600 | 200 kA | 150 kA | 9523 | 76140 | 40996 | 67 | • | • |
| | PSR031DS0400 | PSR031DL0400 | 400 | 690 | 700 | 600 | 200 kA | 150 kA | 14770 | 124335 | 64359 | 70 | • | • |
| | PSR031DS0450 | PSR031DL0450 | 450 | 690 | 700 | 600 | 200 kA | 150 kA | 22457 | 178200 | 97444 | 70 | • | • |
| | PSR031DS0500 | PSR031DL0500 | 500 | 690 | 700 | 600 | 200 kA | 150 kA | 29751 | 251505 | 125935 | 74 | • | • |
| | PSR031DS0550 | PSR031DL0550 | 550 | 690 | 700 | 600 | 200 kA | 150 kA | 42056 | 289170 | 171845 | 86 | • | • |
| | PSR031DS0630 | PSR031DL0630 | 630 | 690 | 700 | 600 | 200 kA | 150 kA | 73513 | 507465 | 276315 | 87 | • | • |
| | PSR031DS0700 | PSR031DL0700 | 700 | 690 | 700 | 600 | 200 kA | 150 kA | 98187 | 601425 | 337260 | 93 | • | • |
| | PSR031DS0800 | PSR031DL0800 | 800 | 690 | 700 | 600 | 200 kA | 150 kA | 137208 | 848880 | 502815 | 107 | • | • |
| | PSR031DS0900 | PSR031DL0900 | 900 | 550 | 600 | 550 | 200 kA | 150 kA | 155163 | 945100 | 631820 | 126 | • | |
| 32 | PSR032DS0400 | PSR032DL0400 | 400 | 690 | 700 | 600 | 200 kA | 150 kA | 11104 | 79650 | 44533 | 87 | • | • |
| | PSR032DS0450 | PSR032DL0450 | 450 | 690 | 700 | 600 | 200 kA | 150 kA | 15535 | 116100 | 65463 | 88 | • | • |
| | PSR032DS0500 | PSR032DL0500 | 500 | 690 | 700 | 600 | 200 kA | 150 kA | 21573 | 161460 | 88277 | 94 | • | • |
| | PSR032DS0550 | PSR032DL0550 | 550 | 690 | 700 | 600 | 200 kA | 150 kA | 26327 | 177660 | 107960 | 106 | • | • |
| | PSR032DS0630 | PSR032DL0630 | 630 | 690 | 700 | 600 | 200 kA | 150 kA | 34790 | 234900 | 156963 | 114 | • | • |
| | PSR032DS0700 | PSR032DL0700 | 700 | 690 | 700 | 600 | 200 kA | 150 kA | 51191 | 291870 | 209287 | 127 | • | • |
| | PSR032DS0800 | PSR032DL0800 | 800 | 690 | 700 | 600 | 200 kA | 150 kA | 60125 | 472770 | 249000 | 152 | • | • |
| | PSR032DS0900 | PSR032DL0900 | 900 | 690 | 700 | 600 | 200 kA | 150 kA | 107785 | 764100 | 404000 | 145 | • | • |
| | PSR032DS1000 | PSR032DL1000 | 1000 | 690 | 700 | 600 | 200 kA | 150 kA | 190102 | 933120 | 672333 | 149 | • | • |
| | PSR032DS1100 | PSR032DL1100 | 1100 | 690 | 700 | 600 | 200 kA | 150 kA | 225379 | 1247400 | 744000 | 161 | • | • |
| | PSR032DS1250 | PSR032DL1250 | 1250 | 550 | 500* | 450* | 200 kA | 150 kA | 336661 | 1114994 | 1197000 | 166 | • | |
| | PSR032DS1400 | PSR032DL1400 | 1400 | 450 | 500 | 450 | 200 kA | 150 kA | 551749 | 1611639 | 1865400 | 184 | • | |
| | PSR032DS1500 | PSR032DL1500 | 1500 | 450 | 500 | 450 | 200 kA | 150 kA | 673360 | 2045907 | 1735500 | 192 | • | |
| 33 | PSR033DS0450 | PSR033DL0450 | 450 | 690 | 700 | 600 | 200 kA | 150 kA | 13600 | 106380 | 58947 | 107 | • | • |
| | PSR033DS0500 | PSR033DL0500 | 500 | 690 | 700 | 600 | 200 kA | 150 kA | 16434 | 140400 | 77846 | 107 | • | • |
| | PSR033DS0550 | PSR033DL0550 | 550 | 690 | 700 | 600 | 200 kA | 150 kA | 23314 | 187650 | 100461 | 111 | • | • |
| | PSR033DS0630 | PSR033DL0630 | 630 | 690 | 700 | 600 | 200 kA | 150 kA | 38727 | 285930 | 142437 | 120 | • | • |
| | PSR033DS0700 | PSR033DL0700 | 700 | 690 | 700 | 600 | 200 kA | 150 kA | 56763 | 392580 | 209863 | 116 | • | • |
| | PSR033DS0800 | PSR033DL0800 | 800 | 690 | 700 | 600 | 200 kA | 150 kA | 84691 | 575505 | 348500 | 122 | • | • |
| | PSR033DS0900 | PSR033DL0900 | 900 | 690 | 700 | 600 | 200 kA | 150 kA | 122619 | 740340 | 451177 | 138 | • | • |
| | PSR033DS1000 | PSR033DL1000 | 1000 | 690 | 700 | 600 | 200 kA | 150 kA | 222350 | 1170450 | 787750 | 138 | • | • |
| | PSR033DS1100 | PSR033DL1100 | 1100 | 690 | 700 | 600 | 200 kA | 150 kA | 310824 | 1568700 | 821400 | 138 | • | • |
| | PSR033DS1250 | PSR033DL1250 | 1250 | 690 | 700 | 500 | 200 kA | 150 kA | 476902 | 2403000 | 1674333 | 145 | • | • |
| | PSR033DS1400 | PSR033DL1400 | 1400 | 690 | 700 | 500 | 200 kA | 150 kA | 583552 | 2920050 | 1979750 | 173 | • | • |
| | PSR033DS1500 | PSR033DL1500 | 1500 | 600 | 650 | 500 | 200 kA | 150 kA | 674538 | 2433200 | 1996733 | 182 | • | • |
| | PSR033DS1600 | PSR033DL1600 | 1600 | 600 | 650 | 500 | 200 kA | 150 kA | 779948 | 2942800 | 2301633 | 208 | • | • |
| | PSR033DS1800 | PSR033DL1800 | 1800 | 600 | 650 | 500 | 200 kA | 150 kA | 952196 | 3785040 | 2724180 | 260 | • | • |
| | PSR033DS2000 | PSR033DL2000 | 2000 | 550 | 600 | 480 | 200 kA | 150 kA | 1234315 | 4131600 | 3755180 | 264 | • | • |
| | PSR033DS2250 | PSR033DL2250 | 2250 | 500 | 550 | 450 | 200 kA | 150 kA | 1236000 | 4459651 | 3859500 | 349 | • | |

* PSR032 1250 A: 600 V Ac/550 V Dc


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## Electrical Characteristics (cont.)

| CASE SIZE | CATALOG NUMBER | AMPERE 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 | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | DIN 110 MM FIXING (DL) | | AC | | DC | AC | DC | | AC | DC | | cURus | CCC |
| | | | IEC | UL | | | | | | | | | |
| 70 | PSR070DL0050 | 50 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 177 | 2050 | 400 | 21 | • | • |
| | PSR070DL0063 | 63 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 273 | 3399 | 900 | 24 | • | • |
| | PSR070DL0080 | 80 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 583 | 6732 | 2200 | 25 | • | • |
| | PSR070DL0100 | 100 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 974 | 10996 | 3750 | 30 | • | • |
| | PSR070DL0125 | 125 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 1352 | 13011 | 5150 | 44 | • | • |
| | PSR070DL0160 | 160 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 2377 | 25662 | 8950 | 53 | • | • |
| | PSR070DL0200 | 200 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 4177 | 39087 | 17267 | 62 | • | • |
| | PSR070DL0250 | 250 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 8629 | 89790 | 36750 | 73 | • | • |
| | PSR070DL0280 | 280 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 11844 | 113201 | 46750 | 77 | • | • |
| | PSR070DL0315 | 315 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 18162 | 142051 | 66833 | 80 | • | • |
| | PSR070DL0350 | 350 | 1250 | 1200* | 900* | 100 kA | 150 kA | 22963 | 215230 | 95410 | 76 | • | |
| | PSR070DL0400 | 400 | 1100 | 1200 | 900 | 100 kA | 150 kA | 37103 | 283480 | 154320 | 78 | • | |
| 71 | PSR071DL0160 | 160 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 2756 | 24600 | 8800 | 45 | • | • |
| | PSR071DL0200 | 200 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 4918 | 50307 | 19050 | 52 | • | • |
| | PSR071DL0250 | 250 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 10592 | 104427 | 43100 | 55 | • | • |
| | PSR071DL0280 | 280 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 13763 | 131897 | 54150 | 58 | • | • |
| | PSR071DL0315 | 315 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 20882 | 200244 | 67450 | 59 | • | • |
| | PSR071DL0350 | 350 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 23301 | 225500 | 102500 | 70 | • | • |
| | PSR071DL0400 | 400 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 43211 | 374986 | 185000 | 76 | • | • |
| | PSR071DL0450 | 450 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 55915 | 452394 | 241333 | 88 | • | • |
| | PSR071DL0500 | 500 | 1100 | 1200 | 900 | 100 kA | 150 kA | 75315 | 468845 | 253960 | 93 | • | |
| | PSR071DL0550 | 550 | 1100 | 1200 | 900 | 100 kA | 150 kA | 87328 | 693507 | 332600 | 90 | • | |
| | PSR071DL0630 | 630 | 1000 | 1100 | 900 | 100 kA | 150 kA | 131240 | 790862 | 426550 | 103 | • | |
| 72 | PSR072DL0250 | 250 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 7737 | 72789 | 28567 | 64 | • | • |
| | PSR072DL0280 | 280 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 10915 | 124538 | 46897 | 62 | • | • |
| | PSR072DL0315 | 315 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 16187 | 145140 | 58867 | 69 | • | • |
| | PSR072DL0350 | 350 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 18727 | 160447 | 69633 | 81 | • | • |
| | PSR072DL0400 | 400 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 27112 | 243540 | 108000 | 93 | • | • |
| | PSR072DL0450 | 450 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 35927 | 406413 | 159133 | 107 | • | • |
| | PSR072DL0500 | 500 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 50398 | 425375 | 216333 | 115 | • | • |
| | PSR072DL0550 | 550 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 73858 | 539833 | 271333 | 115 | • | • |
| | PSR072DL0630 | 630 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 126126 | 942180 | 436000 | 119 | • | • |
| | PSR072DL0700 | 700 | 1100 | 1200 | 900** | 100 kA | 150 kA | 228761 | 1123694 | 715180 | 89 | • | |
| | PSR072DL0800 | 800 | 1100 | 1200 | 900** | 100 kA | 150 kA | 230695 | 1432388 | 911650 | 129 | • | |
| | PSR072DL0900 | 900 | 1000 | 900* | 900** | 100 kA | 150 kA | 376641 | 1309993 | 1030400 | 131 | • | |
| | PSR072DL1000 | 1000 | 850 | 900 | 800** | 100 kA | 150 kA | 455955 | 1772548 | 1361500 | 156 | • | |
| 73 | PSR073DL0315 | 315 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 10245 | 106600 | 38650 | 100 | • | • |
| | PSR073DL0350 | 350 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 13586 | 159627 | 57467 | 100 | • | • |
| | PSR073DL0400 | 400 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 19797 | 211273 | 86800 | 124 | • | • |
| | PSR073DL0450 | 450 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 29834 | 279073 | 114333 | 122 | • | • |
| | PSR073DL0500 | 500 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 42751 | 416437 | 184500 | 121 | • | • |
| | PSR073DL0550 | 550 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 55513 | 491713 | 224500 | 130 | • | • |
| | PSR073DL0630 | 630 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 94649 | 804338 | 377500 | 136 | • | • |
| | PSR073DL0700 | 700 | 1250 | 1300 | 1000 | 100 kA | 150 kA | 158097 | 1170960 | 575667 | 135 | • | • |
| | PSR073DL0800 | 800 | 1250 | 1300 | 1000** | 100 kA | 150 kA | 234943 | 1769880 | 733460 | 128 | • | |
| | PSR073DL0900 | 900 | 950 | 1050 | 800** | 100 kA | 150 kA | 317743 | 2280547 | 901779 | 156 | • | |
| | PSR073DL1000 | 1000 | 950 | 1050 | 800** | 100 kA | 150 kA | 476221 | 3910801 | 1546418 | 143 | • | |
| | PSR073DL1100 | 1100 | 950 | 1050 | 800** | 100 kA | 150 kA | 570870 | 2736600 | 1699000 | 165 | • | |
| | PSR073DL1250 | 1250 | 900 | 1000 | - | 100 kA | - | 993924 | 3091160 | - | 197 | • | |
| | PSR073DL1400 | 1400 | 900 | 1000 | - | 100 kA | - | 1168091 | 3627820 | - | 249 | • | |

* PSR070 350 A: 1300 V Ac/1000 V Dc
PSR072 900 A: 1100 V Ac
** No UL certification for Dc voltage


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## Ordering Information

| CASE SIZE | DIN 80 MM FIXING (DS) | | | DIN 110 MM FIXING (DL) | | | BOX QUANTITY |
|---|---|---|---|---|---|---|---|
| | CATALOG NUMBER | ORDERING PART NUMBER | UPC | CATALOG NUMBER | ORDERING PART NUMBER | UPC | |
| 30 | PSR030DS0040 | PSR030DS0040Z | 07945824985 | PSR030DL0040 | PSR030DL0040Z | 07945825049 | 3 pcs/box |
| | PSR030DS0050 | PSR030DS0050Z | 07945824986 | PSR030DL0050 | PSR030DL0050Z | 07945825050 | 3 pcs/box |
| | PSR030DS0063 | PSR030DS0063Z | 07945824987 | PSR030DL0063 | PSR030DL0063Z | 07945825051 | 3 pcs/box |
| | PSR030DS0080 | PSR030DS0080Z | 07945824988 | PSR030DL0080 | PSR030DL0080Z | 07945825052 | 3 pcs/box |
| | PSR030DS0100 | PSR030DS0100Z | 07945824989 | PSR030DL0100 | PSR030DL0100Z | 07945825054 | 3 pcs/box |
| | PSR030DS0125 | PSR030DS0125Z | 07945824990 | PSR030DL0125 | PSR030DL0125Z | 07945825056 | 3 pcs/box |
| | PSR030DS0160 | PSR030DS0160Z | 07945824991 | PSR030DL0160 | PSR030DL0160Z | 07945825057 | 3 pcs/box |
| | PSR030DS0200 | PSR030DS0200Z | 07945824992 | PSR030DL0200 | PSR030DL0200Z | 07945825059 | 3 pcs/box |
| | PSR030DS0250 | PSR030DS0250Z | 07945824993 | PSR030DL0250 | PSR030DL0250Z | 07945825060 | 3 pcs/box |
| | PSR030DS0315 | PSR030DS0315Z | 07945824994 | PSR030DL0315 | PSR030DL0315Z | 07945825062 | 3 pcs/box |
| | PSR030DS0350 | PSR030DS0350Z | 07945824995 | PSR030DL0350 | PSR030DL0350Z | 07945825066 | 3 pcs/box |
| | PSR030DS0400 | PSR030DS0400Z | 07945824996 | PSR030DL0400 | PSR030DL0400Z | 07945825069 | 3 pcs/box |
| | PSR030DS0450 | PSR030DS0450Z | 07945824997 | PSR030DL0450 | PSR030DL0450Z | 07945825070 | 3 pcs/box |
| | PSR030DS0500 | PSR030DS0500Z | 07945824998 | PSR030DL0500 | PSR030DL0500Z | 07945825074 | 3 pcs/box |
| | PSR030DS0550 | PSR030DS0550Z | 07945824999 | PSR030DL0550 | PSR030DL0550Z | 07945825075 | 3 pcs/box |
| | PSR030DS0630 | PSR030DS0630Z | 07945827822 | PSR030DL0630 | PSR030DL0630Z | 07945827801 | 3 pcs/box |
| 31 | PSR031DS0200 | PSR031DS0200Z | 07945825000 | PSR031DL0200 | PSR031DL0200Z | 07945825076 | 3 pcs/box |
| | PSR031DS0250 | PSR031DS0250Z | 07945825001 | PSR031DL0250 | PSR031DL0250Z | 07945825077 | 3 pcs/box |
| | PSR031DS0315 | PSR031DS0315Z | 07945825002 | PSR031DL0315 | PSR031DL0315Z | 07945825078 | 3 pcs/box |
| | PSR031DS0350 | PSR031DS0350Z | 07945825003 | PSR031DL0350 | PSR031DL0350Z | 07945825079 | 3 pcs/box |
| | PSR031DS0400 | PSR031DS0400Z | 07945825004 | PSR031DL0400 | PSR031DL0400Z | 07945825080 | 3 pcs/box |
| | PSR031DS0450 | PSR031DS0450Z | 07945825005 | PSR031DL0450 | PSR031DL0450Z | 07945825081 | 3 pcs/box |
| | PSR031DS0500 | PSR031DS0500Z | 07945825006 | PSR031DL0500 | PSR031DL0500Z | 07945825082 | 3 pcs/box |
| | PSR031DS0550 | PSR031DS0550Z | 07945825007 | PSR031DL0550 | PSR031DL0550Z | 07945825083 | 3 pcs/box |
| | PSR031DS0630 | PSR031DS0630Z | 07945825008 | PSR031DL0630 | PSR031DL0630Z | 07945825084 | 3 pcs/box |
| | PSR031DS0700 | PSR031DS0700Z | 07945825009 | PSR031DL0700 | PSR031DL0700Z | 07945825085 | 3 pcs/box |
| | PSR031DS0800 | PSR031DS0800Z | 07945825010 | PSR031DL0800 | PSR031DL0800Z | 07945825086 | 3 pcs/box |
| | PSR031DS0900 | PSR031DS0900Z | 07945827823 | PSR031DL0900 | PSR031DL0900Z | 07945827802 | 3 pcs/box |
| 32 | PSR032DS0400 | PSR032DS0400X | 07945825013 | PSR032DL0400 | PSR032DL0400X | 07945825087 | 1 pc/box |
| | PSR032DS0450 | PSR032DS0450X | 07945825014 | PSR032DL0450 | PSR032DL0450X | 07945825088 | 1 pc/box |
| | PSR032DS0500 | PSR032DS0500X | 07945825015 | PSR032DL0500 | PSR032DL0500X | 07945825089 | 1 pc/box |
| | PSR032DS0550 | PSR032DS0550X | 07945825016 | PSR032DL0550 | PSR032DL0550X | 07945825090 | 1 pc/box |
| | PSR032DS0630 | PSR032DS0630X | 07945825017 | PSR032DL0630 | PSR032DL0630X | 07945825091 | 1 pc/box |
| | PSR032DS0700 | PSR032DS0700X | 07945825021 | PSR032DL0700 | PSR032DL0700X | 07945825092 | 1 pc/box |
| | PSR032DS0800 | PSR032DS0800X | 07945825022 | PSR032DL0800 | PSR032DL0800X | 07945825141 | 1 pc/box |
| | PSR032DS0900 | PSR032DS0900X | 07945825023 | PSR032DL0900 | PSR032DL0900X | 07945825142 | 1 pc/box |
| | PSR032DS1000 | PSR032DS1000X | 07945825025 | PSR032DL1000 | PSR032DL1000X | 07945825143 | 1 pc/box |
| | PSR032DS1100 | PSR032DS1100X | 07945825026 | PSR032DL1100 | PSR032DL1100X | 07945825144 | 1 pc/box |
| | PSR032DS1250 | PSR032DS1250X | 07945827824 | PSR032DL1250 | PSR032DL1250X | 07945827803 | 1 pc/box |
| | PSR032DS1400 | PSR032DS1400X | 07945827825 | PSR032DL1400 | PSR032DL1400X | 07945827804 | 1 pc/box |
| | PSR032DS1500 | PSR032DS1500X | 07945827826 | PSR032DL1500 | PSR032DL1500X | 07945827805 | 1 pc/box |
| 33 | PSR033DS0450 | PSR033DS0450X | 07945825027 | PSR033DL0450 | PSR033DL0450X | 07945825145 | 1 pc/box |
| | PSR033DS0500 | PSR033DS0500X | 07945825028 | PSR033DL0500 | PSR033DL0500X | 07945825146 | 1 pc/box |
| | PSR033DS0550 | PSR033DS0550X | 07945825030 | PSR033DL0550 | PSR033DL0550X | 07945825147 | 1 pc/box |
| | PSR033DS0630 | PSR033DS0630X | 07945825032 | PSR033DL0630 | PSR033DL0630X | 07945825148 | 1 pc/box |
| | PSR033DS0700 | PSR033DS0700X | 07945825033 | PSR033DL0700 | PSR033DL0700X | 07945825149 | 1 pc/box |
| | PSR033DS0800 | PSR033DS0800X | 07945825034 | PSR033DL0800 | PSR033DL0800X | 07945825150 | 1 pc/box |
| | PSR033DS0900 | PSR033DS0900X | 07945825035 | PSR033DL0900 | PSR033DL0900X | 07945825151 | 1 pc/box |
| | PSR033DS1000 | PSR033DS1000X | 07945825036 | PSR033DL1000 | PSR033DL1000X | 07945825152 | 1 pc/box |
| | PSR033DS1100 | PSR033DS1100X | 07945825038 | PSR033DL1100 | PSR033DL1100X | 07945825153 | 1 pc/box |
| | PSR033DS1250 | PSR033DS1250X | 07945825039 | PSR033DL1250 | PSR033DL1250X | 07945825154 | 1 pc/box |
| | PSR033DS1400 | PSR033DS1400X | 07945825040 | PSR033DL1400 | PSR033DL1400X | 07945825155 | 1 pc/box |
| | PSR033DS1500 | PSR033DS1500X | 07945825042 | PSR033DL1500 | PSR033DL1500X | 07945825156 | 1 pc/box |
| | PSR033DS1600 | PSR033DS1600X | 07945825044 | PSR033DL1600 | PSR033DL1600X | 07945825157 | 1 pc/box |
| | PSR033DS1800 | PSR033DS1800X | 07945825045 | PSR033DL1800 | PSR033DL1800X | 07945825158 | 1 pc/box |
| | PSR033DS2000 | PSR033DS2000X | 07945825046 | PSR033DL2000 | PSR033DL2000X | 07945825159 | 1 pc/box |
| | PSR033DS2250 | PSR033DS2250X | 07945827827 | PSR033DL2250 | PSR033DL2250X | 07945827806 | 1 pc/box |

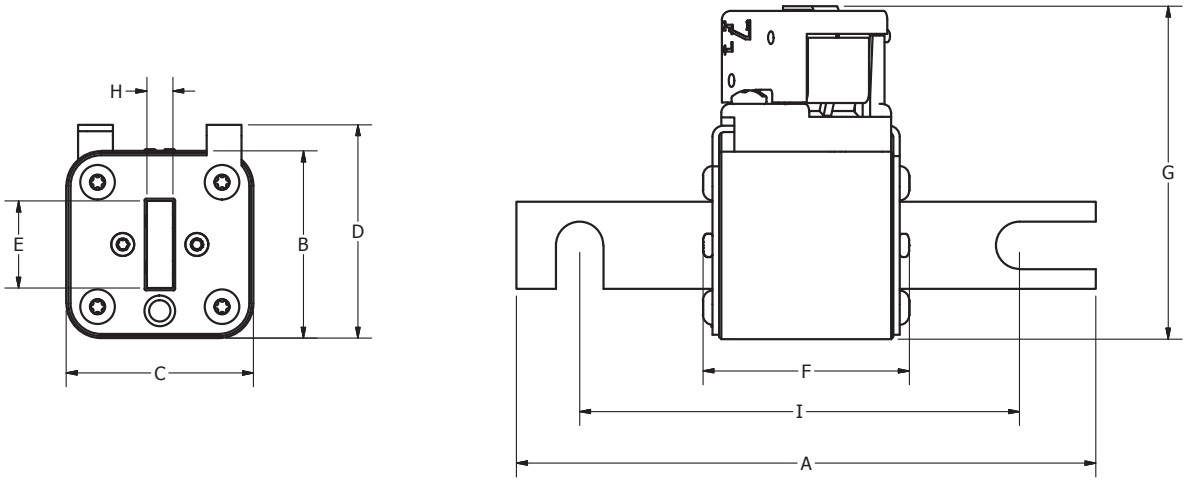

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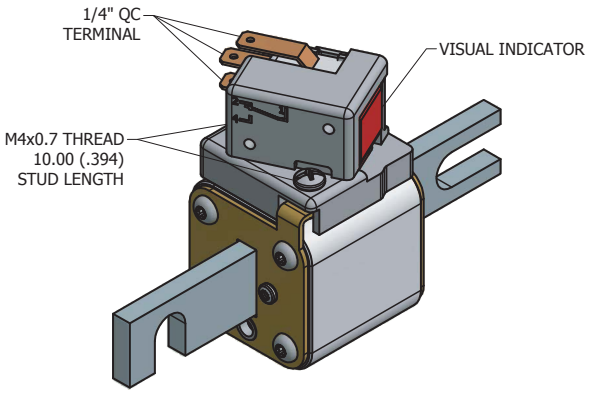
## Ordering Information (cont.)

| CASE SIZE | DIN 110 MM FIXING (DL) | | | BOX QUANTITY |
|---|---|---|---|---|
| | CATALOG NUMBER | ORDERING PART NUMBER | UPC | |
| 70 | PSR070DL0050 | PSR070DL0050Z | 07945825160 | 3 pcs/box |
| | PSR070DL0063 | PSR070DL0063Z | 07945825161 | 3 pcs/box |
| | PSR070DL0080 | PSR070DL0080Z | 07945825162 | 3 pcs/box |
| | PSR070DL0100 | PSR070DL0100Z | 07945825163 | 3 pcs/box |
| | PSR070DL0125 | PSR070DL0125Z | 07945825164 | 3 pcs/box |
| | PSR070DL0160 | PSR070DL0160Z | 07945825165 | 3 pcs/box |
| | PSR070DL0200 | PSR070DL0200Z | 07945825166 | 3 pcs/box |
| | PSR070DL0250 | PSR070DL0250Z | 07945825167 | 3 pcs/box |
| | PSR070DL0280 | PSR070DL0280Z | 07945825168 | 3 pcs/box |
| | PSR070DL0315 | PSR070DL0315Z | 07945825169 | 3 pcs/box |
| | PSR070DL0350 | PSR070DL0350Z | 07945827807 | 3 pcs/box |
| | PSR070DL0400 | PSR070DL0400Z | 07945827808 | 3 pcs/box |
| 71 | PSR071DL0160 | PSR071DL0160Z | 07945825170 | 3 pcs/box |
| | PSR071DL0200 | PSR071DL0200Z | 07945825171 | 3 pcs/box |
| | PSR071DL0250 | PSR071DL0250Z | 07945825172 | 3 pcs/box |
| | PSR071DL0280 | PSR071DL0280Z | 07945825173 | 3 pcs/box |
| | PSR071DL0315 | PSR071DL0315Z | 07945825174 | 3 pcs/box |
| | PSR071DL0350 | PSR071DL0350Z | 07945825175 | 3 pcs/box |
| | PSR071DL0400 | PSR071DL0400Z | 07945825176 | 3 pcs/box |
| | PSR071DL0450 | PSR071DL0450Z | 07945825177 | 3 pcs/box |
| | PSR071DL0500 | PSR071DL0500Z | 07945827809 | 3 pcs/box |
| | PSR071DL0550 | PSR071DL0550Z | 07945827810 | 3 pcs/box |
| | PSR071DL0630 | PSR071DL0630Z | 07945827811 | 3 pcs/box |
| 72 | PSR072DL0250 | PSR072DL0250X | 07945825178 | 1 pc/box |
| | PSR072DL0280 | PSR072DL0280X | 07945825179 | 1 pc/box |
| | PSR072DL0315 | PSR072DL0315X | 07945825180 | 1 pc/box |
| | PSR072DL0350 | PSR072DL0350X | 07945825181 | 1 pc/box |
| | PSR072DL0400 | PSR072DL0400X | 07945825182 | 1 pc/box |
| | PSR072DL0450 | PSR072DL0450X | 07945825183 | 1 pc/box |
| | PSR072DL0500 | PSR072DL0500X | 07945825184 | 1 pc/box |
| | PSR072DL0550 | PSR072DL0550X | 07945825185 | 1 pc/box |
| | PSR072DL0630 | PSR072DL0630X | 07945825186 | 1 pc/box |
| | PSR072DL0700 | PSR072DL0700X | 07945827812 | 1 pc/box |
| | PSR072DL0800 | PSR072DL0800X | 07945827813 | 1 pc/box |
| | PSR072DL0900 | PSR072DL0900X | 07945827814 | 1 pc/box |
| | PSR072DL1000 | PSR072DL1000X | 07945827815 | 1 pc/box |
| 73 | PSR073DL0315 | PSR073DL0315X | 07945825187 | 1 pc/box |
| | PSR073DL0350 | PSR073DL0350X | 07945825188 | 1 pc/box |
| | PSR073DL0400 | PSR073DL0400X | 07945825189 | 1 pc/box |
| | PSR073DL0450 | PSR073DL0450X | 07945825190 | 1 pc/box |
| | PSR073DL0500 | PSR073DL0500X | 07945825191 | 1 pc/box |
| | PSR073DL0550 | PSR073DL0550X | 07945825192 | 1 pc/box |
| | PSR073DL0630 | PSR073DL0630X | 07945825193 | 1 pc/box |
| | PSR073DL0700 | PSR073DL0700X | 07945825194 | 1 pc/box |
| | PSR073DL0800 | PSR073DL0800X | 07945827816 | 1 pc/box |
| | PSR073DL0900 | PSR073DL0900X | 07945827817 | 1 pc/box |
| | PSR073DL1000 | PSR073DL1000X | 07945827818 | 1 pcsbox |
| | PSR073DL1100 | PSR073DL1100X | 07945827819 | 1 pc/box |
| | PSR073DL1250 | PSR073DL1250X | 07945827820 | 1 pc/box |
| | PSR073DL1400 | PSR073DL1400X | 07945827821 | 1 pc/box |


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## Dimensions (DS and DL)




| DIMENSIONS MM (IN) | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| CASE SIZE | MOUNTING STYLE | A | B | C | D | E | F | G | H | I | RECOMMENDED FASTENER | TIGHTENING TORQUE (REFERENCE ONLY) |
| 30 | DIN 80 [DS] | 109.0 (4.29) | 43.0 (1.69) | 43.0 (1.69) | 49.0 (1.93) | 20.0 (0.79) | 47.7 (1.88) | 77.9 (3.07) | 6.0 (0.24) | 77.8 (3.06) | 10 mm (3/8) | 26 Nm |
| | DIN 110 [DL] | 132.5 (5.22) | 43.0 (1.69) | 43.0 (1.69) | 49.0 (1.93) | 20.0 (0.79) | 47.7 (1.88) | 77.9 (3.07) | 6.0 (0.24) | 101.8 (4.01) | 10 mm (3/8) | 26 Nm |
| 31 | DIN 80 [DS] | 109.2 (4.30) | 51.5 (2.03) | 51.5 (2.03) | 57.5 (2.26) | 25.0 (0.98) | 49.2 (1.94) | 86.4 (3.40) | 6.0 (0.24) | 77.8 (3.06) | 10 mm (3/8) | 26 Nm |
| | DIN 110 [DL] | 133.2 (5.24) | 51.5 (2.03) | 51.5 (2.03) | 57.5 (2.26) | 25.0 (0.98) | 49.2 (1.94) | 86.4 (3.40) | 6.0 (0.24) | 101.8 (4.01) | 10 mm (3/8) | 26 Nm |
| 32 | DIN 80 [DS] | 109.2 (4.30) | 60.0 (2.36) | 60.0 (2.36) | 66.0 (2.60) | 25.0 (0.98) | 49.2 (1.94) | 94.9 (3.74) | 6.0 (0.24) | 77.8 (3.06) | 10 mm (3/8) | 26 Nm |
| | DIN 110 [DL] | 133.2 (5.24) | 60.0 (2.36) | 60.0 (2.36) | 66.0 (2.60) | 25.0 (0.98) | 49.2 (1.94) | 94.9 (3.74) | 6.0 (0.24) | 101.8 (4.01) | 10 mm (3/8) | 26 Nm |
| 33 | DIN 80 [DS] | 109.2 (4.30) | 73.5 (2.89) | 73.5 (2.89) | 79.5 (3.13) | 36.0 (1.42) | 50.2 (1.98) | 108.4 (4.27) | 6.0 (0.24) | 77.8 (3.06) | 10 mm (3/8) | 26 Nm |
| | DIN 110 [DL] | 133.2 (5.24) | 73.5 (2.89) | 73.5 (2.89) | 79.5 (3.13) | 36.0 (1.42) | 50.2 (1.98) | 108.4 (4.27) | 6.0 (0.24) | 101.8 (4.01) | 10 mm (3/8) | 26 Nm |
| 70 | DIN 110 [DL] | 133.0 (5.24) | 43.0 (1.69) | 43.0 (1.69) | 49.0 (1.93) | 20.0 (0.79) | 71.7 (2.82) | 77.9 (3.07) | 6.0 (0.24) | 101.8 (4.01) | 10 mm (3/8) | 26 Nm |
| 71 | DIN 110 [DL] | 133.2 (5.24) | 51.5 (2.03) | 51.5 (2.03) | 57.5 (2.26) | 25.0 (0.98) | 73.2 (2.88) | 86.4 (3.40) | 6.0 (0.24) | 101.8 (4.01) | 10 mm (3/8) | 26 Nm |
| 72 | DIN 110 [DL] | 133.2 (5.24) | 60.0 (2.36) | 60.0 (2.36) | 66.0 (2.60) | 25.0 (0.98) | 73.2 (2.88) | 94.9 (3.74) | 6.0 (0.24) | 101.8 (4.01) | 10 mm (3/8) | 26 Nm |
| 73 | DIN 110 [DL] | 133.2 (5.24) | 73.5 (2.89) | 73.5 (2.89) | 79.5 (3.13) | 36.0 (1.42) | 74.2 (2.92) | 108.4 (4.27) | 6.0 (0.24) | 101.8 (4.01) | 10 mm (3/8) | 26 Nm |


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# POWR-*SPEED*® Fuses

## L75QS SERIES HIGH-SPEED ROUND BODY

750 V dc • Very Fast Acting • 35–800 A




## Description

The L75QS series is a next generation high-speed fuse for the protection of power semiconductor devices and is designed in the traditional round body bolted style package.

L75QS series high-speed fuses rated at 750 V dc are extremely current limiting and are used to protect power converters, drives and control circuit applications. Designed with lower $I^2t$ performance characteristics, these fuses provide balanced performance to extend longevity while lowering potentially damaging heat energy to the devices being protected.

In addition L75QS series fuses have been designed with a universal mounting option to meet customer requirements for installation into a variety of application configurations.

Littelfuse POWR-*SPEED* products offer optimized circuit protection at the extremely fast speed required to protect modern day, sensitive, high-power semiconductor devices.

## Features

- Compliance with US and Canadian requirements
- Traditional North American bolted style dimensions
- 750 V dc performance
- Direct bus-bar mount or stud mount design
- Halogen free, RoHS and REACH Compliant

## Applications

- Power converters (inverters, rectifiers)
- Power supplies, UPS
- EV charging stations
- Variable speed drives
- Dc common bus

## Specifications

| | |
|---|---|
| **Voltage Rating** | Dc: 750 V |
| **Amperage Rating** | 35–800 A |
| **Interrupting Rating** | Dc: 50 kA |
| **Time Constant** | 10 ms |
| **Material** | Body: melamine<br>Caps: copper alloy |
| **Approvals** | UL Recognized (E71611)<br>cURus (E71611) |
| **Environmental** | RoHS Compliant, REACH |
| **Country of Origin** | Mexico |
| **Operating Temperature** | -55 °C to +125 °C |
| **Storage Temperature** | Up to 35 °C with relative humidity <65 % |

## Part Numbering System

**L75 QS 700 . X**

**Series**

**Body Type**

**Ampere Code**

**Package Quantity**
X = 1 (225–800 A)
V = 5 (35–200 A)

| SERIES | BODY TYPE | AMPERE CODE | PACKAGE QUANTITY | CATALOG NUMBER | ORDERING NUMBER |
|---|---|---|---|---|---|
| L75 | QS | 700 | 1 | L75QS700 | L75QS700.X |

## Recommended Fuse Blocks

LSCR101 (35–100 A)
LSCR102 (125–800 A)
LSCR103 (450–800 A)



## Web Resources

Download technical documents: **Littelfuse.com/L75QS**

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


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## Electrical Specifications

| CATALOG NUMBER | AMPERAGE RATING | VOLTAGE RATING | INTERRUPT RATING | MELTING (PRE-ARC) $I^2T$ ($A^2s$) | TOTAL CLEARING $I^2T$ ($A^2s$) | WATTS LOSS AT 80 % RATED CURRENT | WATTS LOSS AT 100 % RATED CURRENT |
|---|---|---|---|---|---|---|---|
| | | DC | DC | | 50 KA @ 750 V DC | (W) | (W) |
| L75QS035 | 35 | 750 | 50 kA | 129 | 406 | 5 | 8 |
| L75QS040 | 40 | 750 | 50 kA | 153 | 549 | 6 | 9 |
| L75QS050 | 50 | 750 | 50 kA | 196 | 776 | 6 | 12 |
| L75QS060 | 60 | 750 | 50 kA | 269 | 895 | 9 | 15 |
| L75QS070 | 70 | 750 | 50 kA | 359 | 1,399 | 10 | 20 |
| L75QS080 | 80 | 750 | 50 kA | 452 | 1,841 | 12 | 22 |
| L75QS090 | 90 | 750 | 50 kA | 625 | 2,498 | 13 | 25 |
| L75QS100 | 100 | 750 | 50 kA | 966 | 3,053 | 15 | 30 |
| L75QS125 | 125 | 750 | 50 kA | 2,208 | 7,069 | 13 | 24 |
| L75QS150 | 150 | 750 | 50 kA | 3,026 | 10,401 | 17 | 32 |
| L75QS175 | 175 | 750 | 50 kA | 4,216 | 14,786 | 20 | 38 |
| L75QS200 | 200 | 750 | 50 kA | 5,529 | 20,433 | 22 | 42 |
| L75QS225 | 225 | 750 | 50 kA | 9,226 | 27,520 | 22 | 40 |
| L75QS250 | 250 | 750 | 50 kA | 10,999 | 34,291 | 27 | 46 |
| L75QS300 | 300 | 750 | 50 kA | 16,296 | 49,297 | 31 | 57 |
| L75QS350 | 350 | 750 | 50 kA | 24,778 | 70,696 | 35 | 67 |
| L75QS400 | 400 | 750 | 50 kA | 34,225 | 102,567 | 41 | 79 |
| L75QS450 | 450 | 750 | 50 kA | 38,946 | 119,606 | 45 | 81 |
| L75QS500 | 500 | 750 | 50 kA | 42,747 | 132,252 | 56 | 112 |
| L75QS600 | 600 | 750 | 50 kA | 67,363 | 189,333 | 67 | 138 |
| L75QS700 | 700 | 750 | 50 kA | 99,387 | 302,425 | 72 | 138 |
| L75QS800 | 800 | 750 | 50 kA | 156,137 | 421,500 | 76 | 142 |

## Ordering Information

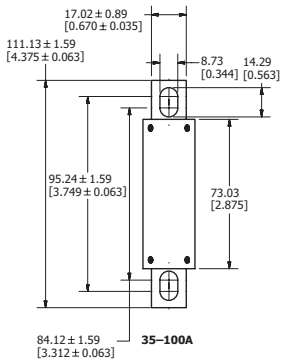
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| L75QS | 35 | 035 | L75QS035 | L75QS035.V | 5 Pcs/ Box | 07945823571 |
| L75QS | 40 | 040 | L75QS040 | L75QS040.V | 5 Pcs/ Box | 07945823572 |
| L75QS | 50 | 050 | L75QS050 | L75QS050.V | 5 Pcs/ Box | 07945823573 |
| L75QS | 60 | 060 | L75QS060 | L75QS060.V | 5 Pcs/ Box | 07945823574 |
| L75QS | 70 | 070 | L75QS070 | L75QS070.V | 5 Pcs/ Box | 07945823575 |
| L75QS | 80 | 080 | L75QS080 | L75QS080.V | 5 Pcs/ Box | 07945823576 |
| L75QS | 90 | 090 | L75QS090 | L75QS090.V | 5 Pcs/ Box | 07945823577 |
| L75QS | 100 | 100 | L75QS100 | L75QS100.V | 5 Pcs/ Box | 07945823578 |
| L75QS | 125 | 125 | L75QS125 | L75QS125.V | 5 Pcs/ Box | 07945823579 |
| L75QS | 150 | 150 | L75QS150 | L75QS150.V | 5 Pcs/ Box | 07945823580 |
| L75QS | 175 | 175 | L75QS175 | L75QS175.V | 5 Pcs/ Box | 07945823581 |
| L75QS | 200 | 200 | L75QS200 | L75QS200.V | 5 Pcs/ Box | 07945823582 |
| L75QS | 225 | 225 | L75QS225 | L75QS225.X | 1 Pc/ Box | 07945823583 |
| L75QS | 250 | 250 | L75QS250 | L75QS250.X | 1 Pc/ Box | 07945823584 |
| L75QS | 300 | 300 | L75QS300 | L75QS300.X | 1 Pc/ Box | 07945823585 |
| L75QS | 350 | 350 | L75QS350 | L75QS350.X | 1 Pc/ Box | 07945823586 |
| L75QS | 400 | 400 | L75QS400 | L75QS400.X | 1 Pc/ Box | 07945823587 |
| L75QS | 450 | 450 | L75QS450 | L75QS450.X | 1 Pc/ Box | 07945823588 |
| L75QS | 500 | 500 | L75QS500 | L75QS500.X | 1 Pc/ Box | 07945823589 |
| L75QS | 600 | 600 | L75QS600 | L75QS600.X | 1 Pc/ Box | 07945823590 |
| L75QS | 700 | 700 | L75QS700 | L75QS700.X | 1 Pc/ Box | 07945823591 |
| L75QS | 800 | 800 | L75QS800 | L75QS800.X | 1 Pc/ Box | 07945823592 |

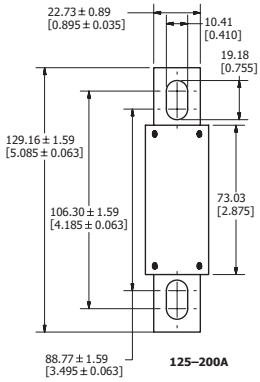

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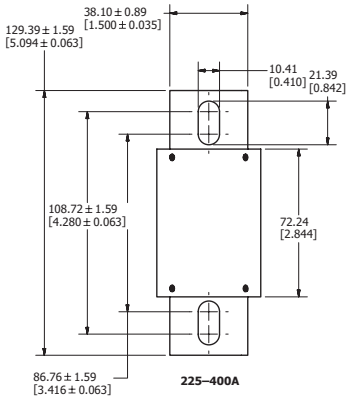
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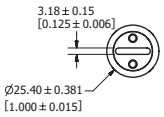
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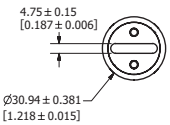
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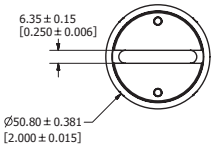


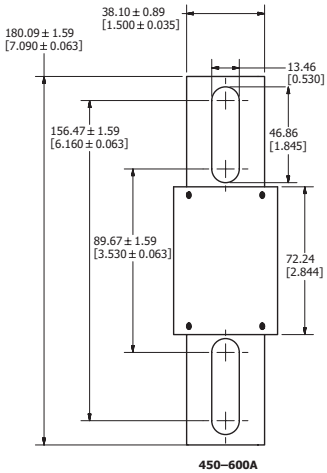



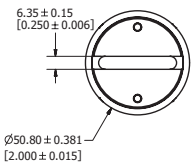

**Stud Size:** M8 (5/16")
**Recommended Torque:** 15 Nm (132.76 in-lb)

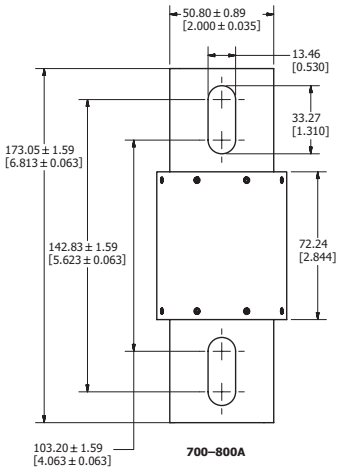
**Stud Size:** M8 (5/16")
**Recommended Torque:** 15 Nm (132.76 in-lb)

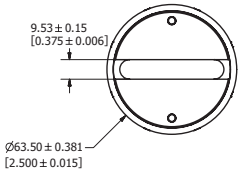
**Stud Size:** M8 (5/16")
**Recommended Torque:** 15 Nm (132.76 in-lb)

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**Stud Size:** M12 (½")
**Recommended Torque:** 54 Nm (477.94 in-lb)

**Stud Size:** M12 (1/2")
**Recommended Torque:** 54 Nm (477.94 in-lb)


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# POWR-*SPEED*® Fuses

## L70QS SERIES HIGH-SPEED ROUND BODY

700 V ac/dc • Very Fast Acting • 35–800 A




## Description

The L70QS series is a next generation high-speed fuse for the protection of power semiconductor devices and is designed in the traditional North American bolted style package.

L70QS series high-speed fuses are extremely current limiting and are used to protect power converters, drives and control circuit applications. Designed with lower $I^2t$ performance characteristics, these fuses provide balanced performance to extend longevity while lowering potentially damaging heat energy to the devices being protected.

In addition L70QS series fuses have been designed with a universal mounting option to meet customer requirements for installation into a variety of application configurations

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

## Features

- Compliance with US and Canadian requirements
- Traditional North American bolted style dimensions
- Class aR performance
- Direct bus-bar mount or stud mount design
- Halogen free, RoHS and REACH Compliant

## Applications

- Power converters (inverters, rectifiers)
- Power supplies
- UPS
- Variable speed drives
- Control circuits
- Soft starters

## Specifications

| | |
|---|---|
| **Voltage Rating** | Ac: 700 V<br>Dc: 700 V |
| **Amperage Rating** | 35–800 A |
| **Interrupting Rating** | Ac: 200 kA<br>Dc: 50 kA |
| **Time Constant** | 10 ms |
| **Material** | Body: melamine<br>Caps: copper alloy (silver plated) |
| **Approvals** | UL Recognized (E71611)<br>cURus (E71611) |
| **Environmental** | RoHS Compliant, REACH |
| **Country of Origin** | Mexico |
| **Operating Temperature** | -55 °C to +125 °C |
| **Storage Temperature** | Up to 35 °C with relative humidity <65 % |

## Part Numbering System

**L70 QS 700 .X**

- **Series**
- **Body Type**
- **Ampere Code** — Refer to Ordering Information table
- **Package Quantity** — X = 1 (225–800 A), V = 5 (35–200 A)

| SERIES | BODY TYPE | AMPERE CODE | PACKAGE QUANTITY | CATALOG NUMBER | ORDERING NUMBER |
|---|---|---|---|---|---|
| L70 | QS | 700 | 1 | L70QS700 | L70QS700.X |

## Recommended Fuse Blocks

LSCR001 (35–100 A)
LSCR002 (125–800 A)



## Web Resources

Download technical documents: **Littelfuse.com/L70QS**

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


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## Electrical Specifications

| CATALOG NUMBER | AMPERAGE RATING | VOLTAGE RATING | | INTERRUPT RATING | | MELTING (PRE-ARC) $I^2T$ ($A^2s$) | TOTAL CLEARING $I^2T$ ($A^2s$) | TOTAL CLEARING $I^2T$ ($A^2s$) | WATTS LOSS AT 80 % RATED CURRENT | WATTS LOSS AT 100 % RATED CURRENT |
|---|---|---|---|---|---|---|---|---|---|---|
| | | AC | DC | AC | DC | | 200 kA @ 700 V AC | 50 kA @ 700 V DC | (W) | (W) |
| L70QS035 | 35 | 700 | 700 | 200 kA | 50 kA | 129 | 332 | 308 | 5 | 8 |
| L70QS040 | 40 | 700 | 700 | 200 kA | 50 kA | 153 | 599 | 416 | 6 | 9 |
| L70QS050 | 50 | 700 | 700 | 200 kA | 50 kA | 196 | 711 | 588 | 6 | 12 |
| L70QS060 | 60 | 700 | 700 | 200 kA | 50 kA | 269 | 1,233 | 678 | 9 | 15 |
| L70QS070 | 70 | 700 | 700 | 200 kA | 50 kA | 359 | 1,575 | 1,075 | 10 | 20 |
| L70QS080 | 80 | 700 | 700 | 200 kA | 50 kA | 452 | 2,755 | 1,415 | 12 | 22 |
| L70QS090 | 90 | 700 | 700 | 200 kA | 50 kA | 625 | 3,365 | 1,920 | 13 | 25 |
| L70QS100 | 100 | 700 | 700 | 200 kA | 50 kA | 966 | 3,747 | 2,347 | 15 | 30 |
| L70QS125 | 125 | 700 | 700 | 200 kA | 50 kA | 2,208 | 8,795 | 5,570 | 13 | 24 |
| L70QS150 | 150 | 700 | 700 | 200 kA | 50 kA | 3,026 | 13,650 | 8,195 | 17 | 32 |
| L70QS175 | 175 | 700 | 700 | 200 kA | 50 kA | 4,219 | 19,550 | 11,650 | 20 | 38 |
| L70QS200 | 200 | 700 | 700 | 200 kA | 50 kA | 5,529 | 22,067 | 16,100 | 22 | 42 |
| L70QS225 | 225 | 700 | 700 | 200 kA | 50 kA | 9,226 | 34,900 | 25,400 | 22 | 40 |
| L70QS250 | 250 | 700 | 700 | 200 kA | 50 kA | 10,999 | 43,750 | 31,650 | 27 | 46 |
| L70QS300 | 300 | 700 | 700 | 200 kA | 50 kA | 16,296 | 64,400 | 45,500 | 31 | 57 |
| L70QS350 | 350 | 700 | 700 | 200 kA | 50 kA | 24,778 | 91,500 | 65,250 | 35 | 67 |
| L70QS400 | 400 | 700 | 700 | 200 kA | 50 kA | 34,225 | 110,667 | 94,666 | 41 | 79 |
| L70QS450 | 450 | 700 | 700 | 200 kA | 50 kA | 38,946 | 145,500 | 113,500 | 45 | 81 |
| L70QS500 | 500 | 700 | 700 | 200 kA | 50 kA | 42,747 | 173,000 | 125,500 | 56 | 112 |
| L70QS600 | 600 | 700 | 700 | 200 kA | 50 kA | 67,363 | 220,333 | 179,667 | 67 | 138 |
| L70QS700 | 700 | 700 | 700 | 200 kA | 50 kA | 99,387 | 368,000 | 298,000 | 72 | 138 |
| L70QS800 | 800 | 700 | 700 | 200 kA | 50 kA | 156,137 | 466,333 | 415,333 | 76 | 142 |

## Ordering Information

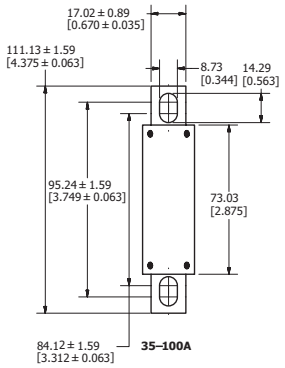
| SERIES | AMPERAGE RATING | AMPERE CODE | CATALOG NUMBER | ORDERING NUMBER | PACK QUANTITY | UPC |
|---|---|---|---|---|---|---|
| L70QS | 35 | 035 | L70QS035 | L70QS035.V | 5 Pcs/ Box | 07945886015 |
| L70QS | 40 | 040 | L70QS040 | L70QS040.V | 5 Pcs/ Box | 07945886016 |
| L70QS | 50 | 050 | L70QS050 | L70QS050.V | 5 Pcs/ Box | 07945886017 |
| L70QS | 60 | 060 | L70QS060 | L70QS060.V | 5 Pcs/ Box | 07945886018 |
| L70QS | 70 | 070 | L70QS070 | L70QS070.V | 5 Pcs/ Box | 07945886019 |
| L70QS | 80 | 080 | L70QS080 | L70QS080.V | 5 Pcs/ Box | 07945886020 |
| L70QS | 90 | 090 | L70QS090 | L70QS090.V | 5 Pcs/ Box | 07945886021 |
| L70QS | 100 | 100 | L70QS100 | L70QS100.V | 5 Pcs/ Box | 07945886022 |
| L70QS | 125 | 125 | L70QS125 | L70QS125.V | 5 Pcs/ Box | 07945886023 |
| L70QS | 150 | 150 | L70QS150 | L70QS150.V | 5 Pcs/ Box | 07945886024 |
| L70QS | 175 | 175 | L70QS175 | L70QS175.V | 5 Pcs/ Box | 07945886025 |
| L70QS | 200 | 200 | L70QS200 | L70QS200.V | 5 Pcs/ Box | 07945886026 |
| L70QS | 225 | 225 | L70QS225 | L70QS225.X | 1 Pc/ Box | 07945886027 |
| L70QS | 250 | 250 | L70QS250 | L70QS250.X | 1 Pc/ Box | 07945886028 |
| L70QS | 300 | 300 | L70QS300 | L70QS300.X | 1 Pc/ Box | 07945886029 |
| L70QS | 350 | 350 | L70QS350 | L70QS350.X | 1 Pc/ Box | 07945886030 |
| L70QS | 400 | 400 | L70QS400 | L70QS400.X | 1 Pc/ Box | 07945886031 |
| L70QS | 450 | 450 | L70QS450 | L70QS450.X | 1 Pc/ Box | 07945886032 |
| L70QS | 500 | 500 | L70QS500 | L70QS500.X | 1 Pc/ Box | 07945886033 |
| L70QS | 600 | 600 | L70QS600 | L70QS600.X | 1 Pc/ Box | 07945886034 |
| L70QS | 700 | 700 | L70QS700 | L70QS700.X | 1 Pc/ Box | 07945886035 |
| L70QS | 800 | 800 | L70QS800 | L70QS800.X | 1 Pc/ Box | 07945886036 |

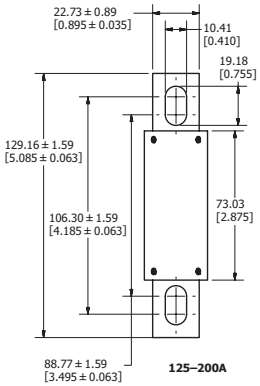

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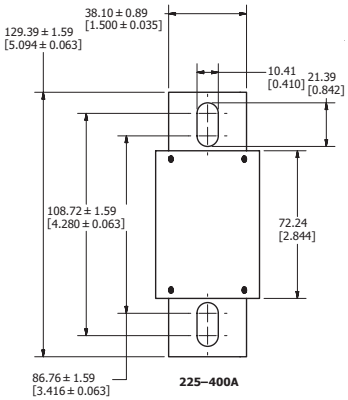
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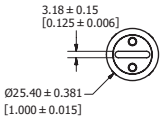
### Millimeters [inches]

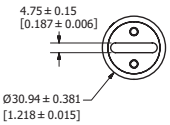
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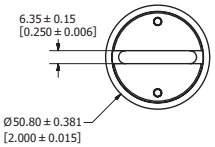


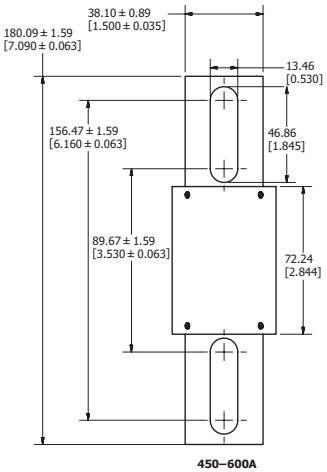



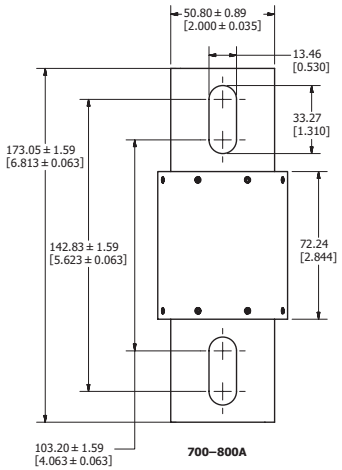



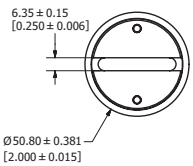

**Stud Size:** M8 (5/16")
**Recommended Torque:** 15 Nm (132.76 in-lb)

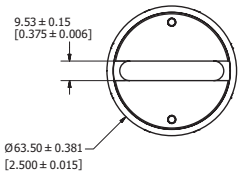
**Stud Size:** M8 (5/16")
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**Stud Size:** M8 (5/16")
**Recommended Torque:** 15 Nm (132.76 in-lb)




**Stud Size:** M12 (1/2")
**Recommended Torque:** 54 Nm (477.94 in-lb)

**Stud Size:** M12 (1/2")
**Recommended Torque:** 54 Nm (477.94 in-lb)


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# POWR-*SPEED*® Fuses

## L50QS SERIES HIGH-SPEED ROUND BODY

500 V ac/dc • Very Fast Acting • 35–800 A




## Description

The L50QS series is a next generation high-speed fuse for the protection of power semiconductor devices and is designed in the traditional North American bolted style package.

L50QS series high-speed fuses are extremely current limiting and are used to protect power converters, drives and control circuit applications. Designed with lower $I^2t$ performance characteristics, these fuses provide balanced performance to extend longevity while lowering potentially damaging heat energy to the devices being protected.

In addition L50QS series fuses have been designed with a universal mounting option to meet customer requirements for installation into a variety of application configurations

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

## Features

- Compliance with US and Canadian requirements
- Traditional North American bolted style dimensions
- Class aR performance
- Direct bus-bar mount or stud mount design
- Halogen free, RoHS and REACH Compliant

## Applications

- Power converters (inverters, rectifiers)
- Power supplies
- UPS
- Variable speed drives
- Control circuits
- Soft starters

## Specifications

| | |
|---|---|
| **Voltage Rating** | Ac: 500 V<br>Dc: 500 V |
| **Amperage Rating** | 35–800 A |
| **Interrupting Rating** | Ac: 200 kA<br>Dc: 50 kA |
| **Time Constant** | 10 ms |
| **Material** | Body: melamine<br>Caps: copper alloy (silver plated) |
| **Approvals** | UL Recognized (E71611)<br>cURus (E71611) |
| **Environmental** | RoHS Compliant, REACH |
| **Country of Origin** | Mexico |
| **Operating Temperature** | -55 °C to +125 °C |
| **Storage Temperature** | Up to 35 °C with relative humidity <65 % |

## Part Numbering System

**L50 QS 500 X**

- **Series**
- **Body Type**
- **Ampere Code**
- **Package Quantity**
  - X = 1 (450–800 A)
  - V = 5 (125–400 A)
  - T = 10 (35–100 A)

| SERIES | BODY TYPE | AMPERE CODE | PACKAGE QUANTITY | CATALOG NUMBER | ORDERING NUMBER |
|---|---|---|---|---|---|
| L50 | QS | 500 | 1 | L50QS500 | L50QS500.X |

## Recommended Fuse Blocks

LSCR001 (35–200A)
LSCR002 (225–800A)



## Web Resources

Download technical documents: **Littelfuse.com/L50QS**

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


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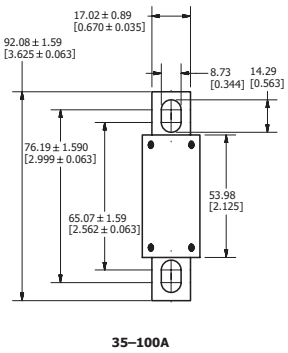
## Electrical Specifications

| CATALOG NUMBER | AMPERAGE RATING | VOLTAGE RATING | | INTERRUPT RATING | | MELTING (PRE-ARC) $I^2T$ ($A^2s$) | TOTAL CLEARING $I^2T$ ($A^2s$) | TOTAL CLEARING $I^2T$ ($A^2s$) | WATTS LOSS AT 80 % RATED CURRENT | WATTS LOSS AT 100 % RATED CURRENT |
|---|---|---|---|---|---|---|---|---|---|---|
| | | AC | DC | AC | DC | | 200 KA @ 500 V AC | 50 KA @ 500 V DC | (W) | (W) |
| L50QS035 | 35 | 500 | 500 | 200 kA | 50 kA | 111 | 430 | 290 | 3 | 5 |
| L50QS040 | 40 | 500 | 500 | 200 kA | 50 kA | 137 | 530 | 363 | 3 | 9 |
| L50QS050 | 50 | 500 | 500 | 200 kA | 50 kA | 211 | 770 | 516 | 5 | 8 |
| L50QS060 | 60 | 500 | 500 | 200 kA | 50 kA | 269 | 1,500 | 881 | 5 | 9 |
| L50QS070 | 70 | 500 | 500 | 200 kA | 50 kA | 393 | 1,775 | 1,185 | 6 | 11 |
| L50QS080 | 80 | 500 | 500 | 200 kA | 50 kA | 616 | 3,550 | 1,720 | 6 | 11 |
| L50QS090 | 90 | 500 | 500 | 200 kA | 50 kA | 720 | 4,075 | 1,990 | 8 | 14 |
| L50QS100 | 100 | 500 | 500 | 200 kA | 50 kA | 905 | 4,577 | 2,313 | 9 | 17 |
| L50QS125 | 125 | 500 | 500 | 200 kA | 50 kA | 1,503 | 7,655 | 4,815 | 10 | 17 |
| L50QS150 | 150 | 500 | 500 | 200 kA | 50 kA | 2,382 | 11,100 | 7,190 | 12 | 21 |
| L50QS175 | 175 | 500 | 500 | 200 kA | 50 kA | 3,148 | 16,500 | 9,900 | 14 | 25 |
| L50QS200 | 200 | 500 | 500 | 200 kA | 50 kA | 4,102 | 18,233 | 11,567 | 17 | 32 |
| L50QS225 | 225 | 500 | 500 | 200 kA | 50 kA | 5,379 | 25,300 | 16,700 | 19 | 35 |
| L50QS250 | 250 | 500 | 500 | 200 kA | 50 kA | 7,094 | 31,350 | 22,500 | 20 | 37 |
| L50QS275 | 275 | 500 | 500 | 200 kA | 50 kA | 9,655 | 40,175 | 30,177 | 21 | 39 |
| L50QS300 | 300 | 500 | 500 | 200 kA | 50 kA | 11,240 | 53,800 | 36,150 | 25 | 46 |
| L50QS325 | 325 | 500 | 500 | 200 kA | 50 kA | 13,183 | 56,250 | 41,000 | 27 | 51 |
| L50QS350 | 350 | 500 | 500 | 200 kA | 50 kA | 14,246 | 68,850 | 44,800 | 30 | 61 |
| L50QS400 | 400 | 500 | 500 | 200 kA | 50 kA | 21,155 | 100,300 | 67,300 | 33 | 65 |
| L50QS450 | 450 | 500 | 500 | 200 kA | 50 kA | 26,425 | 121,000 | 84,650 | 35 | 63 |
| L50QS500 | 500 | 500 | 500 | 200 kA | 50 kA | 31,747 | 141,000 | 103,500 | 39 | 72 |
| L50QS600 | 600 | 500 | 500 | 200 kA | 50 kA | 43,922 | 193,500 | 128,000 | 49 | 92 |
| L50QS700 | 700 | 500 | 500 | 200 kA | 50 kA | 75,597 | 314,000 | 230,000 | 51 | 92 |
| L50QS800 | 800 | 500 | 500 | 200 kA | 50 kA | 92,717 | 393,500 | 280,000 | 63 | 117 |

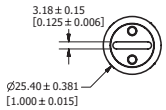

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## Dimensions
### Millimeters [inches]

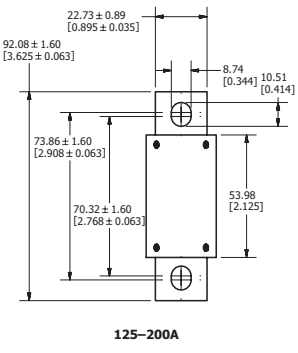
**Document Number:** OL-L50QS000



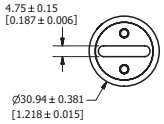

**35–100A**



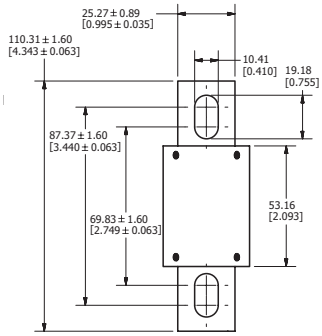

**Stud Size:** M8 (5/16")
**Recommended Torque:** 15 Nm (132.76 in-lb)



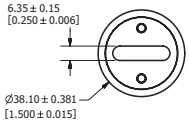

**125–200A**



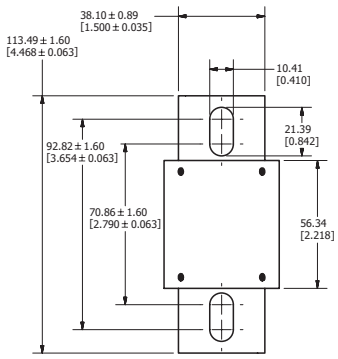

**Stud Size:** M8 (5/16")
**Recommended Torque:** 15 Nm (132.76 in-lb)



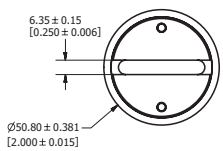

**225–400A**



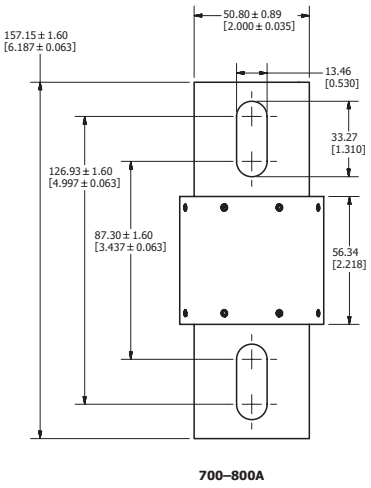

**Stud Size:** M8 (5/16")
**Recommended Torque:** 15 Nm (132.76 in-lb)



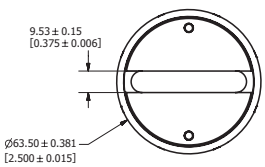

**450–600A**




**Stud Size:** M8 (5/16")
**Recommended Torque:** 15 Nm (132.76 in-lb)




**700–800A**




**Stud Size:** M12 (1/2")
**Recommended Torque:** 54 Nm (477.94 in-lb)


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## Ordering Information

| SERIES | AMPERAGE RATING | AMPERE CODE | CATALOG NUMBER | ORDERING NUMBER | PACK QUANTITY | UPC |
|---|---|---|---|---|---|---|
| L50QS | 35 | 035 | L50QS035 | L50QS035.T | 10 Pcs/ Box | 07945885991 |
| L50QS | 40 | 040 | L50QS040 | L50QS040.T | 10 Pcs/ Box | 07945885992 |
| L50QS | 50 | 050 | L50QS050 | L50QS050.T | 10 Pcs/ Box | 07945885993 |
| L50QS | 60 | 060 | L50QS060 | L50QS060.T | 10 Pcs/ Box | 07945885994 |
| L50QS | 70 | 070 | L50QS070 | L50QS070.T | 10 Pcs/ Box | 07945885995 |
| L50QS | 80 | 080 | L50QS080 | L50QS080.T | 10 Pcs/ Box | 07945885996 |
| L50QS | 90 | 090 | L50QS090 | L50QS090.T | 10 Pcs/ Box | 07945885997 |
| L50QS | 100 | 100 | L50QS100 | L50QS100.T | 10 Pcs/ Box | 07945885998 |
| L50QS | 125 | 125 | L50QS125 | L50QS125.V | 5 Pcs/ Box | 07945885999 |
| L50QS | 150 | 150 | L50QS150 | L50QS150.V | 5 Pcs/ Box | 07945886000 |
| L50QS | 175 | 175 | L50QS175 | L50QS175.V | 5 Pcs/ Box | 07945886001 |
| L50QS | 200 | 200 | L50QS200 | L50QS200.V | 5 Pcs/ Box | 07945886002 |
| L50QS | 225 | 225 | L50QS225 | L50QS225.V | 5 Pcs/ Box | 07945886003 |
| L50QS | 250 | 250 | L50QS250 | L50QS250.V | 5 Pcs/ Box | 07945886004 |
| L50QS | 275 | 275 | L50QS275 | L50QS275.V | 5 Pcs/ Box | 07945886005 |
| L50QS | 300 | 300 | L50QS300 | L50QS300.V | 5 Pcs/ Box | 07945886006 |
| L50QS | 325 | 325 | L50QS325 | L50QS325.V | 5 Pcs/ Box | 07945886011 |
| L50QS | 350 | 350 | L50QS350 | L50QS350.V | 5 Pcs/ Box | 07945886007 |
| L50QS | 400 | 400 | L50QS400 | L50QS400.V | 5 Pcs/ Box | 07945886008 |
| L50QS | 450 | 450 | L50QS450 | L50QS450.X | 1 Pc/ Box | 07945886009 |
| L50QS | 500 | 500 | L50QS500 | L50QS500.X | 1 Pc/ Box | 07945886010 |
| L50QS | 600 | 600 | L50QS600 | L50QS600.X | 1 Pc/ Box | 07945886012 |
| L50QS | 700 | 700 | L50QS700 | L50QS700.X | 1 Pc/ Box | 07945886013 |
| L50QS | 800 | 800 | L50QS800 | L50QS800.X | 1 Pc/ Box | 07945886014 |


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# POWR-*SPEED*® Fuses

## L70S SERIES HIGH-SPEED ROUND BODY

700 V ac • Very Fast Acting • 650 V dc • 10–800 A




## Description

Littelfuse L70S series high-speed fuses are designed to protect today's equipment and systems, and are manufactured with Littelfuse-developed technology that sets tomorrow's standards for accuracy, consistent quality, reliability, and predictable performance.

Littelfuse engineers have redefined high-speed fuse technology by using advanced metallurgical, polymer, and materials research, mathematical modeling, and computerized statistical analysis.

## Features/Benefits

- Extremely current limiting
- Low watt losses
- Controlled transient over-voltages
- UL Recognized

## Applications

- Ac and dc drives
- Dc common bus protection
- Power converters
- UPS
- Soft-starters

## Specifications

| | |
|---|---|
| **Voltage Rating** | 700 V ac<br>650 V dc |
| **Amperage Rating** | 10, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 300, 350, 400, 450, 500, 600, 700, 800 |
| **Interrupting Rating** | Ac: 200 kAIC<br>Dc: 20 kAIC |
| **Material** | Body: melamine<br>Terminals: copper (silver plated) |
| **Mounting Type** | Cylindrical (10–0 A)<br>Bolted tags (35–800 A) |
| **Operating Temperature** | -55 °C to +125 °C |
| **Storage Temperature** | Up to 35 °C with relative humidity < 65 % |
| **Approvals** | UL Recognized (File: E71611)<br>CSA Recognized (File: LR29862) |
| **Environmental** | RoHS Compliant |
| **Country of Origin** | Mexico |

## Part Numbering System

**L70S xxx .T**

**Series**

**Ampere Code**
(3 digit minimum amperage in decimal form)

**Package Quantity**
Refer to Pack Qty. Column in Ordering Information Table

| SERIES | AMP | CATALOG NUMBER | ORDERING NUMBER |
|---|---|---|---|
| L70S | 10 | L70S010 | L70S010.T |
| L70S | 500 | L70S500 | L70S500.X |

## Recommended Fuse Block

LSCR001 (35–100 A)
LSCR002 (125–800 A)

## Web Resources

Download technical documents: **Littelfuse.com/L70S**

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


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## Electrical Specifications

| CATALOG NUMBER | AMPERAGE RATING | VOLTAGE RATING | | INTERRUPT RATING | | MELTING (PRE-ARC) $I^2T$ ($A^2s$) | TOTAL CLEARING $I^2T$ ($A^2s$) | TOTAL CLEARING $I^2T$ ($A^2s$) | TOTAL CLEARING $I^2T$ ($A^2s$) | WATTS LOSS AT 100 % RATED CURRENT | WATTS LOSS AT 80 % RATED CURRENT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AC | DC | AC | DC | | 100 kA @ 700 V AC | 200 kA @ 700 V AC | 20 kA @ 650 V DC | (W) | (W) |
| L70S010 | 10 | 700 | 650 | 200 kA | 20 kA | 21 | 160 | 173 | 346 | 2 | 1 |
| L70S015 | 15 | 700 | 650 | 200 kA | 20 kA | 34 | 330 | 355 | 270 | 2 | 2 |
| L70S020 | 20 | 700 | 650 | 200 kA | 20 kA | 48 | 550 | 599 | 300 | 5 | 2 |
| L70S025 | 25 | 700 | 650 | 200 kA | 20 kA | 62 | 810 | 900 | 340 | 7 | 4 |
| L70S030 | 30 | 700 | 650 | 200 kA | 20 kA | 77 | 1,130 | 1,220 | 417 | 10 | 5 |
| L70S035 | 35 | 700 | 650 | 200 kA | 20 kA | 110 | 1,470 | 1,500 | 500 | 12 | 6 |
| L70S040 | 40 | 700 | 650 | 200 kA | 20 kA | 150 | 1,830 | 2,000 | 660 | 13 | 7 |
| L70S050 | 50 | 700 | 650 | 200 kA | 20 kA | 250 | 2,670 | 3,200 | 1,070 | 16 | 9 |
| L70S060 | 60 | 700 | 650 | 200 kA | 20 kA | 380 | 3,646 | 4,674 | 1,572 | 18 | 9 |
| L70S070 | 70 | 700 | 650 | 200 kA | 20 kA | 545 | 4,800 | 6,000 | 1,970 | 16 | 9 |
| L70S080 | 80 | 700 | 650 | 200 kA | 20 kA | 745 | 6,180 | 7,550 | 2,380 | 21 | 11 |
| L70S090 | 90 | 700 | 650 | 200 kA | 20 kA | 990 | 7,650 | 9,250 | 2,830 | 25 | 13 |
| L70S100 | 100 | 700 | 650 | 200 kA | 20 kA | 1,266 | 9,407 | 11,117 | 3,266 | 29 | 14 |
| L70S125 | 125 | 700 | 650 | 200 kA | 20 kA | 2,150 | 14,700 | 17,550 | 4,900 | 33 | 17 |
| L70S150 | 150 | 700 | 650 | 200 kA | 20 kA | 3,280 | 21,250 | 25,700 | 6,800 | 51 | 24 |
| L70S175 | 175 | 700 | 650 | 200 kA | 20 kA | 4,700 | 28,750 | 34,800 | 9,000 | 63 | 28 |
| L70S200 | 200 | 700 | 650 | 200 kA | 20 kA | 6,411 | 37,300 | 45,583 | 11,447 | 75 | 33 |
| L70S225 | 225 | 700 | 650 | 200 kA | 20 kA | 8,000 | 46,500 | 57,000 | 16,000 | 43 | 24 |
| L70S250 | 250 | 700 | 650 | 200 kA | 20 kA | 9,900 | 58,000 | 69,500 | 22,000 | 49 | 27 |
| L70S300 | 300 | 700 | 650 | 200 kA | 20 kA | 14,000 | 83,000 | 97,700 | 37,500 | 60 | 33 |
| L70S350 | 350 | 700 | 650 | 200 kA | 20 kA | 19,000 | 113,000 | 131,000 | 59,000 | 71 | 36 |
| L70S400 | 400 | 700 | 650 | 200 kA | 20 kA | 24,373 | 147,290 | 169,000 | 87,875 | 107 | 49 |
| L70S450 | 450 | 700 | 650 | 200 kA | 20 kA | 33,000 | 191,000 | 219,000 | 119,000 | 85 | 47 |
| L70S500 | 500 | 700 | 650 | 200 kA | 20 kA | 44,200 | 240,000 | 275,000 | 155,000 | 92 | 49 |
| L70S600 | 600 | 700 | 650 | 200 kA | 20 kA | 72,000 | 370,250 | 405,000 | 246,182 | 106 | 56 |
| L70S700 | 700 | 700 | 650 | 200 kA | 20 kA | 110,000 | 526,000 | 573,000 | 255,000 | 128 | 67 |
| L70S800 | 800 | 700 | 650 | 200 kA | 20 kA | 157,082 | 735,330 | 762,333 | 262,949 | 156 | 78 |


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## Ordering Information

| SERIES | AMPERAGE RATING | AMP CODE | CATALOG NUMBER | ORDERING NUMBER | PACK QUANTITY | UPC |
|---|---|---|---|---|---|---|
| L70S | 10 | 010 | L70S010 | L70S010.T | 10 Pcs/ Box | 07945810161 |
| L70S | 15 | 015 | L70S015 | L70S015.T | 10 Pcs/ Box | 07945810163 |
| L70S | 20 | 020 | L70S020 | L70S020.T | 10 Pcs/ Box | 07945810164 |
| L70S | 25 | 025 | L70S025 | L70S025.T | 10 Pcs/ Box | 07945810165 |
| L70S | 30 | 030 | L70S030 | L70S030.T | 10 Pcs/ Box | 07945810166 |
| L70S | 35 | 035 | L70S035 | L70S035.T | 10 Pcs/ Box | 07945810152 |
| L70S | 40 | 040 | L70S040 | L70S040.T | 10 Pcs/ Box | 07945810167 |
| L70S | 50 | 050 | L70S050 | L70S050.T | 10 Pcs/ Box | 07945810168 |
| L70S | 60 | 060 | L70S060 | L70S060.T | 10 Pcs/ Box | 07945810169 |
| L70S | 70 | 070 | L70S070 | L70S070.V | 5 Pcs/ Box | 07945810170 |
| L70S | 80 | 080 | L70S080 | L70S080.V | 5 Pcs/ Box | 07945810171 |
| L70S | 90 | 090 | L70S090 | L70S090.V | 5 Pcs/ Box | 07945810172 |
| L70S | 100 | 100 | L70S100 | L70S100.V | 5 Pcs/ Box | 07945810173 |
| L70S | 125 | 125 | L70S125 | L70S125.V | 5 Pcs/ Box | 07945810174 |
| L70S | 150 | 150 | L70S150 | L70S150.V | 5 Pcs/ Box | 07945810175 |
| L70S | 175 | 175 | L70S175 | L70S175.V | 5 Pcs/ Box | 07945810176 |
| L70S | 200 | 200 | L70S200 | L70S200.V | 5 Pcs/ Box | 07945810177 |
| L70S | 225 | 225 | L70S225 | L70S225.V | 5 Pcs/ Box | 07945810188 |
| L70S | 250 | 250 | L70S250 | L70S250.V | 5 Pcs/ Box | 07945810178 |
| L70S | 300 | 300 | L70S300 | L70S300.V | 5 Pcs/ Box | 07945810179 |
| L70S | 350 | 350 | L70S350 | L70S350.V | 5 Pcs/ Box | 07945810180 |
| L70S | 400 | 400 | L70S400 | L70S400.V | 5 Pcs/ Box | 07945810181 |
| L70S | 450 | 450 | L70S450 | L70S450.X | 1 Pc/ Box | 07945810182 |
| L70S | 500 | 500 | L70S500 | L70S500.X | 1 Pc/ Box | 07945810183 |
| L70S | 600 | 600 | L70S600 | L70S600.X | 1 Pc/ Box | 07945810184 |
| L70S | 700 | 700 | L70S700 | L70S700.X | 1 Pc/ Box | 07945810185 |
| L70S | 800 | 800 | L70S800 | L70S800.X | 1 Pc/ Box | 07945810186 |

## Dimensions

| AMPERE RATING | FIGURE NO. | DIMENSIONS INCHES (mm) | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | H | J |
| 10 – 30 | 1 | 2 (50.8) | — | ½ (12.7) | 9/16 (14.3) | — | — | — | — | — |
| 31 – 60 | 2 | 2 7/8 (73.0) | 3 7/16 (87.3) | 3 3/4 (95.2) | 4 3/8 (111.1) | 1 (25.4) | 43/64 (17.1) | 11/32 (8.7) | 1/8 (3.2) | — |
| 61 – 100 | 2 | 2 7/8 (73.0) | 3 9/16 (90.5) | 3 11/16 (93.7) | 4 3/8 (111.1) | 1 7/32 (31.0) | 29/32 (22.9) | 5/16 (7.9) | 3/16 (4.8) | — |
| 101 – 200 | 2 | 2 27/32 (72.2) | 3 17/32 (89.7) | 4 5/32 (105.6) | 5 3/32 (129.4) | 1½ (38.1) | 1 (25.4) | 13/32 (10.3) | ¼ (6.4) | — |
| 201 – 400 | 2 | 2 27/32 (72.2) | 3 17/32 (89.7) | 4 5/32 (105.6) | 5 3/32 (129.4) | 2 (50.8) | 1½ (38.1) | 13/32 (10.3) | ¼ (6.4) | — |
| 401 – 600 | 2 | 2 27/32 (72.2) | 4 29/32 (124.6) | 5¼ (133.4) | 7 3/32 (180.2) | 2½ (63.5) | 2 (50.8) | 17/32 (13.5) | 3/8 (9.5) | — |
| 601 – 800 | 3 | 3 5/16 (84.1) | 5 5/16 (134.9) | 6 13/16 (173.0) | — | 2 7/8 (73.0) | 2 (50.8) | 5/8 (15.9) | 3/8 (9.5) | 5/16 (7.9) |

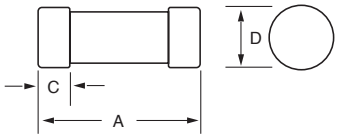


Figure 1

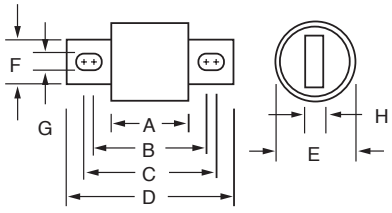


Figure 2

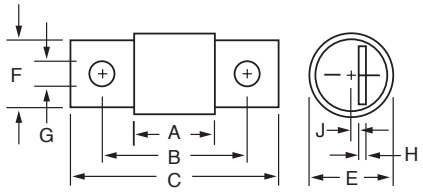


Figure 3


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# POWR-*SPEED*® Fuses

## L50S SERIES HIGH-SPEED ROUND BODY

500 V ac • 450 V dc • Very Fast Acting • 10–800 A




## Description

Littelfuse L50S series high-speed fuses are designed to protect today's equipment and systems, and are manufactured with Littelfuse-developed technology that sets tomorrow's standards for accuracy, consistent quality, reliability, and predictable performance.

Littelfuse engineers have redefined high-speed fuse technology by using advanced metallurgical, polymer, and materials research, mathematical modeling, and computerized statistical analysis.

## Features/Benefits

- Extremely current limiting
- Low watt losses
- Controlled transient over-voltages
- UL Recognized

## Applications

- Ac and dc drives
- Dc common bus protection
- Power converters
- UPS
- Soft-starters

## Specifications

| | |
|---|---|
| **Voltage Rating** | 500 V ac<br>450 V dc |
| **Amperage Rating** | 10, 12, 15, 20, 25, 30, 35, 40, 50, 60, 70, 80, 90, 100, 125, 150, 175, 200, 225, 250, 275, 300, 350, 400, 450, 500, 550, 600, 700, 800 |
| **Interrupting Rating** | Ac: 200 kAIC<br>Dc: 20 kAIC |
| **Material** | Body: melamine<br>Terminals: copper (silver plated) |
| **Mounting Type** | Cylindrical (10–30 A)<br>Bolted tags (35–800 A) |
| **Operating Temperature** | -55 °C to +125 °C |
| **Storage Temperature** | Up to 35 °C with relative humidity less than 65 % |
| **Approvals** | UL Recognized (File: E71611)<br>CSA Recognized (File: LR29862) |
| **Environmental** | RoHS Compliant |
| **Country of Origin** | Mexico |

## Part Numbering System

**L50S xxx .T**

**Series**

**Ampere Code**
(3 digit minimum amperage in decimal form)

**Package Quantity**
Refer to Pack Qty. Column in Ordering Information Table

| SERIES | AMP | CATALOG NUMBER | ORDERING NUMBER |
|---|---|---|---|
| L50S | 10 | L50S010 | L50S010.T |
| L50S | 500 | L50S500 | L50S500.X |

## Recommended Fuse Holder

LSCR001 (35–200 A)
LSCR002 (225–800 A)

## Web Resources

Download technical documents: **Littelfuse.com/L50S**

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


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## Electrical Specifications

| CATALOG NUMBER | AMPERAGE RATING | VOLTAGE RATING | | INTERRUPT RATING | | MELTING (PRE-ARC) $I^2T$ ($A^2s$) | TOTAL CLEARING $I^2T$ ($A^2s$) | TOTAL CLEARING $I^2T$ ($A^2s$) | TOTAL CLEARING $I^2T$ ($A^2s$) | WATTS LOSS AT 100 % RATED CURRENT | WATTS LOSS AT 80 % RATED CURRENT |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AC | DC | AC | DC | | 100 kA @ 500 V AC | 200 kA @ 500 V AC | 20 kA @ 450 V DC | (W) | (W) |
| L50S010 | 10 | 500 | 450 | 200 kA | 20 kA | 21 | 112 | 128 | 85 | 2 | 1 |
| L50S012 | 12 | 500 | 450 | 200 kA | 20 kA | 26 | 149 | 170 | 97 | 2 | 1 |
| L50S015 | 15 | 500 | 450 | 200 kA | 20 kA | 34 | 222 | 250 | 116 | 2 | 2 |
| L50S020 | 20 | 500 | 450 | 200 kA | 20 kA | 48 | 363 | 400 | 143 | 5 | 3 |
| L50S025 | 25 | 500 | 450 | 200 kA | 20 kA | 62 | 528 | 600 | 170 | 7 | 4 |
| L50S030 | 30 | 500 | 450 | 200 kA | 20 kA | 77 | 707 | 820 | 193 | 10 | 5 |
| L50S035 | 35 | 500 | 450 | 200 kA | 20 kA | 130 | 1,120 | 1,210 | 400 | 6 | 3 |
| L50S040 | 40 | 500 | 450 | 200 kA | 20 kA | 161 | 1,420 | 1,550 | 525 | 7 | 4 |
| L50S050 | 50 | 500 | 450 | 200 kA | 20 kA | 222 | 2,150 | 2,360 | 867 | 11 | 6 |
| L50S060 | 60 | 500 | 450 | 200 kA | 20 kA | 259 | 3,016 | 3,300 | 1,287 | 13 | 7 |
| L50S070 | 70 | 500 | 450 | 200 kA | 20 kA | 420 | 4,100 | 4,930 | 1,670 | 17 | 10 |
| L50S080 | 80 | 500 | 450 | 200 kA | 20 kA | 554 | 5,300 | 6,950 | 2,240 | 19 | 10 |
| L50S090 | 90 | 500 | 450 | 200 kA | 20 kA | 677 | 6,750 | 9,500 | 2,900 | 24 | 13 |
| L50S100 | 100 | 500 | 450 | 200 kA | 20 kA | 807 | 8,273 | 12,600 | 3,626 | 30 | 16 |
| L50S125 | 125 | 500 | 450 | 200 kA | 20 kA | 1,290 | 13,100 | 19,000 | 5,150 | 22 | 12 |
| L50S150 | 150 | 500 | 450 | 200 kA | 20 kA | 2,504 | 19,100 | 26,500 | 6,700 | 27 | 15 |
| L50S175 | 175 | 500 | 450 | 200 kA | 20 kA | 3,224 | 26,300 | 35,000 | 8,700 | 33 | 17 |
| L50S200 | 200 | 500 | 450 | 200 kA | 20 kA | 3,938 | 34,233 | 44,583 | 11,297 | 35 | 19 |
| L50S225 | 225 | 500 | 450 | 200 kA | 20 kA | 6,034 | 43,500 | 56,000 | 14,750 | 31 | 17 |
| L50S250 | 250 | 500 | 450 | 200 kA | 20 kA | 7,510 | 54,000 | 69,000 | 19,600 | 36 | 19 |
| L50S275 | 275 | 500 | 450 | 200 kA | 20 kA | 9,000 | 65,500 | 82,000 | 25,500 | 41 | 22 |
| L50S300 | 300 | 500 | 450 | 200 kA | 20 kA | 10,808 | 78,500 | 97,500 | 32,200 | 42 | 23 |
| L50S350 | 350 | 500 | 450 | 200 kA | 20 kA | 16,500 | 107,000 | 132,000 | 50,100 | 50 | 28 |
| L50S400 | 400 | 500 | 450 | 200 kA | 20 kA | 22,941 | 142,333 | 169,667 | 72,270 | 58 | 30 |
| L50S450 | 450 | 500 | 450 | 200 kA | 20 kA | 29,300 | 178,500 | 208,000 | 95,000 | 58 | 32 |
| L50S500 | 500 | 500 | 450 | 200 kA | 20 kA | 37,000 | 220,000 | 250,000 | 118,000 | 64 | 35 |
| L50S550 | 550 | 500 | 450 | 200 kA | 20 kA | 45,851 | 311,667 | 347,333 | 176,766 | 75 | 41 |
| L50S600 | 600 | 500 | 450 | 200 kA | 20 kA | 45,851 | 311,667 | 347,333 | 176,766 | 98 | 50 |
| L50S700 | 700 | 500 | 450 | 200 kA | 20 kA | 82,396 | 460,000 | 622,333 | 289,000 | 96 | 51 |
| L50S800 | 800 | 500 | 450 | 200 kA | 20 kA | 115,656 | 647,667 | 687,500 | 465,590 | 118 | 60 |

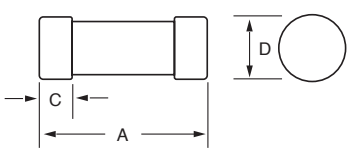

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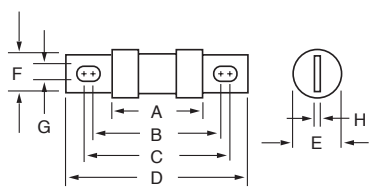
## Ordering Information

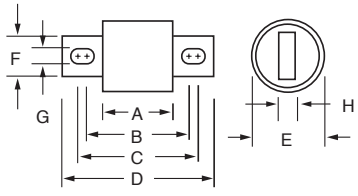
| SERIES | AMPERAGE RATING | AMP CODE | CATALOG NUMBER | ORDERING NUMBER | PACK QUANTITY | UPC |
|---|---|---|---|---|---|---|
| L50S | 10 | 010 | L50S010 | L50S010.T | 10 pcs/box | 07945885010 |
| L50S | 12 | 012 | L50S012 | L50S012.T | 10 pcs/box | 07945885012 |
| L50S | 15 | 015 | L50S015 | L50S015.T | 10 pcs/box | 07945885015 |
| L50S | 20 | 020 | L50S020 | L50S020.T | 10 pcs/box | 07945885020 |
| L50S | 25 | 025 | L50S025 | L50S025.T | 10 pcs/box | 07945885025 |
| L50S | 30 | 030 | L50S030 | L50S030.T | 10 pcs/box | 07945885030 |
| L50S | 35 | 035 | L50S035 | L50S035.T | 10 pcs/box | 07945885035 |
| L50S | 40 | 040 | L50S040 | L50S040.T | 10 pcs/box | 07945885040 |
| L50S | 50 | 050 | L50S050 | L50S050.T | 10 pcs/box | 07945885050 |
| L50S | 60 | 060 | L50S060 | L50S060.T | 10 pcs/box | 07945885060 |
| L50S | 70 | 070 | L50S070 | L50S070.T | 10 pcs/box | 07945885070 |
| L50S | 80 | 080 | L50S080 | L50S080.T | 10 pcs/box | 07945885080 |
| L50S | 90 | 090 | L50S090 | L50S090.T | 10 pcs/box | 07945885090 |
| L50S | 100 | 100 | L50S100 | L50S100.T | 10 pcs/box | 07945885100 |
| L50S | 125 | 125 | L50S125 | L50S125.V | 5 pcs/box | 07945885125 |
| L50S | 150 | 150 | L50S150 | L50S150.V | 5 pcs/box | 07945885150 |
| L50S | 175 | 175 | L50S175 | L50S175.V | 5 pcs/box | 07945885175 |
| L50S | 200 | 200 | L50S200 | L50S200.V | 5 pcs/box | 07945885200 |
| L50S | 225 | 225 | L50S225 | L50S225.V | 5 pcs/box | 07945885225 |
| L50S | 250 | 250 | L50S250 | L50S250.V | 5 pcs/box | 07945885250 |
| L50S | 275 | 275 | L50S275 | L50S275.V | 5 pcs/box | 07945885275 |
| L50S | 300 | 300 | L50S300 | L50S300.V | 5 pcs/box | 07945885300 |
| L50S | 350 | 350 | L50S350 | L50S350.V | 5 pcs/box | 07945885350 |
| L50S | 400 | 400 | L50S400 | L50S400.V | 5 pcs/box | 07945885400 |
| L50S | 450 | 450 | L50S450 | L50S450.X | 1 pc/box | 07945885450 |
| L50S | 500 | 500 | L50S500 | L50S500.X | 1 pc/box | 07945885500 |
| L50S | 550 | 550 | L50S550 | L50S550.X | 1 pc/box | 07945885550 |
| L50S | 600 | 600 | L50S600 | L50S600.X | 1 pc/box | 07945885600 |
| L50S | 700 | 700 | L50S700 | L50S700.X | 1 pc/box | 07945885700 |
| L50S | 800 | 800 | L50S800 | L50S800.X | 1 pc/box | 07945885800 |

## Dimensions

| AMPERE RATING | FIGURE NO. | DIMENSIONS INCHES (mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | H |
| 10–30 | 1 | 2 (50.8) | — | ½ (12.7) | 9/16 (14.3) | — | — | — | — |
| 31–60 | 2 | 1 5/8 (41.3) | 2¼ (57.2) | 2½ (63.5) | 3 3/16 (81.0) | 13/16 (20.6) | 23/32 (18.3) | 11/32 (8.7) | 1/8 (3.2) |
| 61–100 | 3 | 2 1/8 (54.0) | 2 11/16 (68.3) | 3 (76.2) | 3 5/8 (92.1) | 1 (25.4) | .670 (17.0) | 11/32 (8.7) | 1/8 (3.2) |
| 101–200 | 3 | 2 1/8 (54.0) | 2 13/16 (71.4) | 2 15/16 (74.6) | 3 5/8 (92.1) | 1 7/32 (31.0) | .895 (22.7) | 5/16 (7.9) | 3/16 (4.75) |
| 201–400 | 3 | 2 3/32 (53.2) | 2 25/32 (70.6) | 3 13/32 (86.5) | 4 11/32 (110.3) | 1½ (38.1) | 1 (25.4) | 13/32 (10.3) | ¼ (6.4) |
| 401–600 | 3 | 2 7/32 (56.4) | 2 29/32 (73.8) | 3 17/32 (89.7) | 4 15/32 (113.5) | 2 (50.8) | 1½ (38.1) | 13/32 (10.3) | ¼ (6.4) |
| 601–800 | 3 | 2 7/32 (56.4) | 4 9/32 (108.7) | 4 5/8 (117.5) | 6 15/32 (164.3) | 2½ (63.5) | 2 (50.8) | 17/32 (13.5) | 3/8 (9.5) |





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# POWR-*SPEED*® Fuses

## L15S SERIES HIGH-SPEED ROUND BODY

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

| | |
|---|---|
| **Voltage Ratings** | Ac: 150 V<br>Dc: 100 V–150 V |
| **Ampere Range** | 1–1000 A |
| **Interrupting Rating** | Ac: 100 kA<br>Dc: 20 kA Self Certified |
| **Approvals** | UL Recognized (File: E71611)<br>CSA Recognized (File: LR29862) |
| **Time Constant** | 10 ms |
| **Material** | Body: melamine<br>Cap: copper alloy (silver plated) |
| **Environmental** | RoHS |
| **Country of Origin** | Mexico |
| **Operating Temperature** | -55 °C to +125 °C |
| **Storage Temperature** | Up to 35 °C with relative humidity <65 % |

## Part Numbering System

**L15S xxx .T**

**Series**

**Amperage**
(3 digit minimum amperage in decimal form)

**Package Quantity**
T = 10 (1 A–450 A)
V = 5 (500 A–1000 A)

| 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**

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


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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 |


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## Dimensions

| AMPERE RATING | FIG. NO. | DIMENSIONS INCHES (MM) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | H |
| 1 – 30 | 1 | 1½ (38.1) | — | ⅜ (9.5) | 13/32 (10.3) | — | — | — | — |
| 31 – 60 | 1 | 2 (50.8) | — | ⅝ (15.9) | 13/16 (20.6) | — | — | — | — |
| 61 – 450 | 2 | 15/32 (29.4) | 1⅞ (47.6) | 2 3/16 (55.6) | 2 21/32 (67.5) | 1 (25.4) | 43/64 (17.1) | 5/16 (7.9) | 3/16 (4.8) |
| 451 – 1000 | 2 | 1¼ (31.8) | 1 15/16 (49.2) | 2 9/16 (65.1) | 3½ (88.9) | 1½ (38.1) | 1 (25.4) | 13/32 (10.3) | ¼ (6.4) |

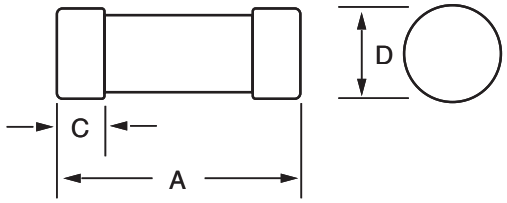



Figure 1

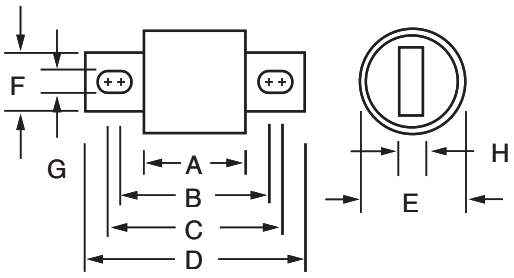



Figure 2


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# POWR-*SPEED*® Fuses

## L25S SERIES HIGH-SPEED ROUND BODY

250 V ac • Very Fast-Acting • 1–800 A



## Description

The L25S Series is a traditional North American bolted style high-speed fuse for protection of power semiconductor devices that are rated up to 250 V ac and 200 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 are used with no time delay 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

## Applications

- Power converters (inverters, rectifiers, UPS)
- Power supplies
- Industrial heaters
- Variable speed drives
- Battery chargers
- Soft starters

## Specifications

| | |
|---|---|
| **Voltage Ratings** | Ac: 250 V<br>Dc: 200 V–250 V |
| **Ampere Range** | 1–800 A |
| **Interrupting Rating** | Ac: 200 kA<br>Dc: 20 kA Self Certified |
| **Approvals** | UL Recognized (File: E71611)<br>CSA Recognized (File: LR29862) |
| **Time Constant** | 10 ms |
| **Material** | Body: melamine<br>Caps: copper alloy (silver plated) |
| **Environmental** | RoHS |
| **Country of Origin** | Mexico |
| **Operating Temperature** | -55 °C to +125 °C |
| **Storage Temperature** | Up to 35 °C with Relative Humidity <65 % |

## Part Numbering System

**L25S xxx .T**

**Series**

**Amperage**
(3 digit minimum amperage in decimal form)

**Package Quantity**
T = (1 A–60 A)
V = (70 A–800 A)

| SERIES | AMPERAGE | CATALOG NUMBER | ORDERING NUMBER |
|---|---|---|---|
| L25S | 1 | L25S001 | L25S001.T |
| L25S | 100 | L25S100 | L25S100.V |

## Recommended Fuse Holders

1LFS101/1LFS102
LSCR001/LSCR002

## Web Resources

For additional information, visit: **Littelfuse.com/high-speed**

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


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## Electrical Specifications

| CATALOG NUMBER | AMPERAGE RATING | VOLTAGE RATING | | INTERRUPT RATING | |
|---|---|---|---|---|---|
| | | AC | DC | AC | DC |
| L25S001 | 1 | 250 | 250 | 200 kA | 20 kA |
| L25S002 | 2 | 250 | 250 | 200 kA | 20 kA |
| L25S003 | 3 | 250 | 250 | 200 kA | 20 kA |
| L25S004 | 4 | 250 | 250 | 200 kA | 20 kA |
| L25S005 | 5 | 250 | 250 | 200 kA | 20 kA |
| L25S006 | 6 | 250 | 250 | 200 kA | 20 kA |
| L25S008 | 8 | 250 | 250 | 200 kA | 20 kA |
| L25S010 | 10 | 250 | 250 | 200 kA | 20 kA |
| L25S012 | 12 | 250 | 250 | 200 kA | 20 kA |
| L25S015 | 15 | 250 | 250 | 200 kA | 20 kA |
| L25S020 | 20 | 250 | 250 | 200 kA | 20 kA |
| L25S025 | 25 | 250 | 250 | 200 kA | 20 kA |
| L25S030 | 30 | 250 | 250 | 200 kA | 20 kA |
| L25S035 | 35 | 250 | 250 | 200 kA | 20 kA |
| L25S040 | 40 | 250 | 250 | 200 kA | 20 kA |
| L25S045 | 45 | 250 | 250 | 200 kA | 20 kA |
| L25S050 | 50 | 250 | 250 | 200 kA | 20 kA |
| L25S060 | 60 | 250 | 250 | 200 kA | 20 kA |
| L25S070 | 70 | 250 | 250 | 200 kA | 20 kA |
| L25S080 | 80 | 250 | 250 | 200 kA | 20 kA |
| L25S090 | 90 | 250 | 250 | 200 kA | 20 kA |
| L25S100 | 100 | 250 | 250 | 200 kA | 20 kA |
| L25S125 | 125 | 250 | 250 | 200 kA | 20 kA |
| L25S150 | 150 | 250 | 250 | 200 kA | 20 kA |
| L25S175 | 175 | 250 | 250 | 200 kA | 20 kA |
| L25S200 | 200 | 250 | 250 | 200 kA | 20 kA |
| L25S225 | 225 | 250 | 200 | 200 kA | 20 kA |
| L25S250 | 250 | 250 | 200 | 200 kA | 20 kA |
| L25S275 | 275 | 250 | 200 | 200 kA | 20 kA |
| L25S300 | 300 | 250 | 200 | 200 kA | 20 kA |
| L25S350 | 350 | 250 | 200 | 200 kA | 20 kA |
| L25S400 | 400 | 250 | 200 | 200 kA | 20 kA |
| L25S450 | 450 | 250 | 200 | 200 kA | 20 kA |
| L25S500 | 500 | 250 | 200 | 200 kA | 20 kA |
| L25S600 | 600 | 250 | 200 | 200 kA | 20 kA |
| L25S700 | 700 | 250 | 200 | 200 kA | 20 kA |
| L25S800 | 800 | 250 | 200 | 200 kA | 20 kA |


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## Ordering Information

| SERIES | AMPERAGE | AMPERE CODE | CATALOG NUMBER | ORDERING NUMBER | PACK QUANTITY | UPC |
|---|---|---|---|---|---|---|
| L25S | 1 | 001. | L25S001 | L25S001.T | 10 Pcs/Box | 07945884001 |
| L25S | 2 | 002. | L25S002 | L25S002.T | 10 Pcs/Box | 07945884002 |
| L25S | 3 | 003. | L25S003 | L25S003.T | 10 Pcs/Box | 07945884003 |
| L25S | 4 | 004. | L25S004 | L25S004.T | 10 Pcs/Box | 07945884004 |
| L25S | 5 | 005. | L25S005 | L25S005.T | 10 Pcs/Box | 07945884005 |
| L25S | 6 | 006. | L25S006 | L25S006.T | 10 Pcs/Box | 07945884006 |
| L25S | 8 | 008. | L25S008 | L25S008.T | 10 Pcs/Box | 07945884008 |
| L25S | 10 | 010. | L25S010 | L25S010.T | 10 Pcs/Box | 07945884010 |
| L25S | 12 | 012. | L25S012 | L25S012.T | 10 Pcs/Box | 07945884012 |
| L25S | 15 | 015. | L25S015 | L25S015.T | 10 Pcs/Box | 07945884015 |
| L25S | 20 | 020. | L25S020 | L25S020.T | 10 Pcs/Box | 07945884020 |
| L25S | 25 | 025. | L25S025 | L25S025.T | 10 Pcs/Box | 07945884025 |
| L25S | 30 | 030. | L25S030 | L25S030.T | 10 Pcs/Box | 07945884030 |
| L25S | 35 | 035. | L25S035 | L25S035.T | 10 Pcs/Box | 07945884035 |
| L25S | 40 | 040. | L25S040 | L25S040.T | 10 Pcs/Box | 07945884040 |
| L25S | 45 | 045. | L25S045 | L25S045.T | 10 Pcs/Box | 07945884045 |
| L25S | 50 | 050. | L25S050 | L25S050.T | 10 Pcs/Box | 07945884050 |
| L25S | 60 | 060. | L25S060 | L25S060.T | 10 Pcs/Box | 07945884060 |
| L25S | 70 | 070. | L25S070 | L25S070.V | 5 Pcs/Box | 07945884070 |
| L25S | 80 | 080. | L25S080 | L25S080.V | 5 Pcs/Box | 07945884080 |
| L25S | 90 | 090. | L25S090 | L25S090.V | 5 Pcs/Box | 07945884090 |
| L25S | 100 | 100. | L25S100 | L25S100.V | 5 Pcs/Box | 07945884100 |
| L25S | 125 | 125. | L25S125 | L25S125.V | 5 Pcs/Box | 07945884125 |
| L25S | 150 | 150. | L25S150 | L25S150.V | 5 Pcs/Box | 07945884150 |
| L25S | 175 | 175. | L25S175 | L25S175.V | 5 Pcs/Box | 07945884175 |
| L25S | 200 | 200. | L25S200 | L25S200.V | 5 Pcs/Box | 07945884200 |
| L25S | 225 | 225. | L25S225 | L25S225.V | 5 Pcs/Box | 07945884225 |
| L25S | 250 | 250. | L25S250 | L25S250.V | 5 Pcs/Box | 07945884250 |
| L25S | 275 | 275. | L25S275 | L25S275.V | 5 Pcs/Box | 07945884275 |
| L25S | 300 | 300. | L25S300 | L25S300.V | 5 Pcs/Box | 07945884300 |
| L25S | 350 | 350. | L25S350 | L25S350.V | 5 Pcs/Box | 07945884350 |
| L25S | 400 | 400. | L25S400 | L25S400.V | 5 Pcs/Box | 07945884400 |
| L25S | 450 | 450. | L25S450 | L25S450.V | 5 Pcs/Box | 07945884450 |
| L25S | 500 | 500. | L25S500 | L25S500.V | 5 Pcs/Box | 07945884500 |
| L25S | 600 | 600. | L25S600 | L25S600.V | 5 Pcs/Box | 07945884600 |
| L25S | 700 | 700. | L25S700 | L25S700.V | 5 Pcs/Box | 07945884700 |
| L25S | 800 | 800. | L25S800 | L25S800.V | 5 Pcs/Box | 07945884800 |


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## Dimensions

| AMPERE RATING | FIG. NO. | DIMENSIONS INCHES (MM) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | H |
| 1 – 30 | 1 | 2 (50.8) | — | ½ (12.7) | 9/16 (14.3) | — | — | — | — |
| 31 – 60 | 2 | 1 5/8 (41.3) | 2¼ (57.2) | 2½ (63.5) | 3 3/16 (81.0) | 13/16 (20.6) | 23/32 (18.3) | 11/32 (8.7) | ⅛ (3.2) |
| 61 – 200 | 3 | 1 5/8 (41.3) | 2 5/16 (58.7) | 2 7/16 (61.9) | 3⅛ (79.4) | 1 7/32 (31.0) | 1 (25.4) | 5/16 (7.9) | 3/16 (4.8) |
| 201 – 700 | 3 | 1 19/32 (40.5) | 2 9/32 (57.9) | 2 29/32 (73.8) | 3 27/32 (97.6) | 1½ (38.1) | 1 (25.4) | 13/32 (10.3) | ¼ (6.4) |
| 701 – 800 | 3 | 1 19/32 (40.5) | 2 9/32 (57.9) | 2 29/32 (73.8) | 3 27/32 (97.6) | 2 (50.8) | 1½ (38.1) | 13/32 (10.3) | ¼ (6.4) |

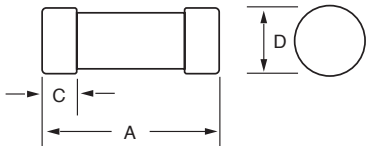


Figure 1

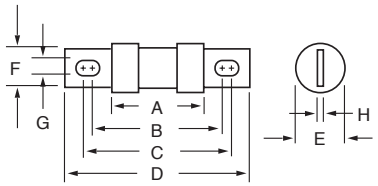


Figure 2

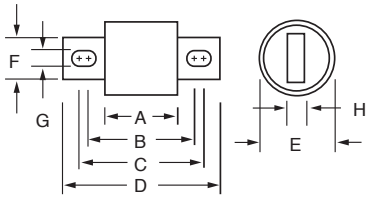


Figure 3


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# POWR-*SPEED*® Fuses

## L60S/KLC SERIES HIGH-SPEED ROUND BODY

600 V ac • Very Fast-Acting • 1–800 A




## Specifications

| | |
|---|---|
| **Voltage Rating** | 600 V ac |
| **Ampere Range** | 1–800 A |
| **Interrupting Rating** | 200 kA rms |
| **Approvals** | UL Recognized (File: E71611)<br>CSA Recognized (File: LR29862) |
| **Country of Origin** | Mexico |
| **Operating Temperature** | -55 °C to +125 °C |
| **Storage Temperature** | Up to 35 °C with relative humidity <65 % |

## Description

The L60S and KLC series is a traditional North American style high-speed fuse for protection of power semiconductor devices that are rated up to 600 V ac. These fuse series are typically used for replacement purposes only. For new designs L70QS series is recommended.

## Features/Benefits

- Compliance with US and Canadian requirements
- Traditional North American cylindrical and bolted style dimensions
- Class aR performance

## Applications

- Small power converters
- Power supplies
- Control circuits

## Part Numbering System

**xxxx xxx X**

**Series**
L60S
KLC

**Ampere Code**
(3 digit minimum amperage in decimal form)

**Package Quantity**
X = 1 (110–800 A)
V = 5 (70–100 A)
T = 10 (1–60 A)

## Recommended Fuse Holders

1LFS101/1LFS102
LSCR001/LSCR002

## Web Resources

For additional information, visit: **Littelfuse.com/high-speed**

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


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## Ordering Information

| L60S SERIES | | | | | | |
|---|---|---|---|---|---|---|
| SERIES | AMPERAGE | AMPERE CODE | CATALOG NUMBER | ORDERING NUMBER | PACK QUANTITY | UPC |
| L60S | 1 | 001. | L60S001 | L60S001.T | 10 Pcs/Box | 07945810100 |
| L60S | 2 | 002. | L60S002 | L60S002.T | 10 Pcs/Box | 07945810101 |
| L60S | 3 | 003. | L60S003 | L60S003.T | 10 Pcs/Box | 07945810102 |
| L60S | 4 | 004. | L60S004 | L60S004.T | 10 Pcs/Box | 07945810103 |
| L60S | 5 | 005. | L60S005 | L60S005.T | 10 Pcs/Box | 07945810104 |
| L60S | 6 | 006. | L60S006 | L60S006.T | 10 Pcs/Box | 07945810105 |
| L60S | 8 | 008. | L60S008 | L60S008.T | 10 Pcs/Box | 07945810107 |
| L60S | 10 | 010. | L60S010 | L60S010.T | 10 Pcs/Box | 07945810108 |
| L60S | 12 | 012. | L60S012 | L60S012.T | 10 Pcs/Box | 07945810109 |
| L60S | 15 | 015. | L60S015 | L60S015.T | 10 Pcs/Box | 07945810110 |
| L60S | 17.5 | 17.5 | L60S17.5 | L60S17.5T | 10 Pcs/Box | 07945810135 |
| L60S | 20 | 020. | L60S020 | L60S020.T | 10 Pcs/Box | 07945810111 |
| L60S | 25 | 025. | L60S025 | L60S025.T | 10 Pcs/Box | 07945810112 |
| L60S | 30 | 030. | L60S030 | L60S030.T | 10 Pcs/Box | 07945810113 |
| L60S | 35 | 035. | L60S035 | L60S035.T | 10 Pcs/Box | 07945810114 |
| L60S | 40 | 040. | L60S040 | L60S040.T | 10 Pcs/Box | 07945810115 |
| L60S | 45 | 045. | L60S045 | L60S045.T | 10 Pcs/Box | 07945810116 |
| L60S | 50 | 050. | L60S050 | L60S050.T | 10 Pcs/Box | 07945810117 |
| L60S | 60 | 060. | L60S060 | L60S060.T | 10 Pcs/Box | 07945810118 |
| L60S | 70 | 070. | L60S070 | L60S070.V | 5 Pcs/Box | 07945810119 |
| L60S | 80 | 080. | L60S080 | L60S080.V | 5 Pcs/Box | 07945810120 |
| L60S | 90 | 090. | L60S090 | L60S090.V | 5 Pcs/Box | 07945810121 |
| L60S | 100 | 100. | L60S100 | L60S100.V | 5 Pcs/Box | 07945810122 |
| L60S | 125 | 125. | L60S125 | L60S125.X | 1 Pcs/Box | 07945810123 |
| L60S | 150 | 150. | L60S150 | L60S150.X | 1 Pcs/Box | 07945810124 |
| L60S | 175 | 175. | L60S175 | L60S175.X | 1 Pcs/Box | 07945810125 |
| L60S | 200 | 200. | L60S200 | L60S200.X | 1 Pcs/Box | 07945810126 |
| L60S | 225 | 225. | L60S225 | L60S225.X | 1 Pcs/Box | 07945810137 |
| L60S | 250 | 250. | L60S250 | L60S250.X | 1 Pcs/Box | 07945810127 |
| L60S | 300 | 300. | L60S300 | L60S300.X | 1 Pcs/Box | 07945810128 |
| L60S | 350 | 350. | L60S350 | L60S350.X | 1 Pcs/Box | 07945810129 |
| L60S | 400 | 400. | L60S400 | L60S400.X | 1 Pcs/Box | 07945810130 |
| L60S | 450 | 450. | L60S450 | L60S450.X | 1 Pcs/Box | 07945810131 |
| L60S | 500 | 500. | L60S500 | L60S500.X | 1 Pcs/Box | 07945810132 |
| L60S | 600 | 600. | L60S600 | L60S600.X | 1 Pcs/Box | 07945810133 |
| L60S | 700 | 700. | L60S700 | L60S700.X | 1 Pcs/Box | 07945810136 |
| L60S | 800 | 800. | L60S800 | L60S800.X | 1 Pcs/Box | 07945810134 |


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## Ordering Information

| KLC* SERIES | | | | | | |
|---|---|---|---|---|---|---|
| SERIES | AMPERAGE | AMPERE CODE | CATALOG NUMBER | ORDERING NUMBER | PACK QUANTITY | UPC |
| KLC | 1 | 001. | KLC001 | 0KLC001.T | 10 pcs/box | 07945823031 |
| KLC | 2 | 002. | KLC002 | 0KLC002.T | 10 pcs/box | 07945823041 |
| KLC | 3 | 003. | KLC003 | 0KLC003.T | 10 pcs/box | 07945823047 |
| KLC | 4 | 004. | KLC004 | 0KLC004.T | 10 pcs/box | 07945823053 |
| KLC | 5 | 005. | KLC005 | 0KLC005.T | 10 pcs/box | 07945823055 |
| KLC | 6 | 006. | KLC006 | 0KLC006.T | 10 pcs/box | 07945823058 |
| KLC | 7 | 007. | KLC007 | 0KLC007.T | 10 pcs/box | 07945823061 |
| KLC | 8 | 008. | KLC008 | 0KLC008.T | 10 pcs/box | 07945823063 |
| KLC | 10 | 010. | KLC010 | 0KLC010.T | 10 pcs/box | 07945823065 |
| KLC | 12 | 012. | KLC012 | 0KLC012.T | 10 pcs/box | 07945823066 |
| KLC | 15 | 015. | KLC015 | 0KLC015.T | 10 pcs/box | 07945823068 |
| KLC | 17.5 | 17.5 | KLC17.5 | 0KLC17.5T | 10 pcs/box | 07945823069 |
| KLC | 20 | 020. | KLC020 | 0KLC020.T | 10 pcs/box | 07945823071 |
| KLC | 25 | 025. | KLC025 | 0KLC025.T | 10 pcs/box | 07945823072 |
| KLC | 30 | 030. | KLC030 | 0KLC030.T | 10 pcs/box | 07945823073 |
| KLC | 35 | 035. | KLC035 | 0KLC035.T | 10 pcs/box | 07945823074 |
| KLC | 40 | 040. | KLC040 | 0KLC040.T | 10 pcs/box | 07945823075 |
| KLC | 45 | 045. | KLC045 | 0KLC045.T | 10 pcs/box | 07945823076 |
| KLC | 50 | 050. | KLC050 | 0KLC050.T | 10 pcs/box | 07945823077 |
| KLC | 60 | 060. | KLC060 | 0KLC060.T | 10 pcs/box | 07945823078 |
| KLC | 70 | 070. | KLC070 | 0KLC070.V | 5 pcs/box | 07945823079 |
| KLC | 80 | 080. | KLC080 | 0KLC080.V | 5 pcs/box | 07945823080 |
| KLC | 90 | 090. | KLC090 | 0KLC090.V | 5 pcs/box | 07945823081 |
| KLC | 100 | 100. | KLC100 | 0KLC100.V | 5 pcs/box | 07945823082 |
| KLC | 110 | 110. | KLC110 | 0KLC110.X | 1 pcs/box | 07945823083 |
| KLC | 125 | 125. | KLC125 | 0KLC125.X | 1 pcs/box | 07945823084 |
| KLC | 150 | 150. | KLC150 | 0KLC150.X | 1 pcs/box | 07945823086 |
| KLC | 175 | 175. | KLC175 | 0KLC175.X | 1 pcs/box | 07945823087 |
| KLC | 200 | 200. | KLC200 | 0KLC200.X | 1 pcs/box | 07945823088 |
| KLC | 225 | 225. | KLC225 | 0KLC225.X | 1 pcs/box | 07945823089 |
| KLC | 250 | 250. | KLC250 | 0KLC250.X | 1 pcs/box | 07945823090 |
| KLC | 300 | 300. | KLC300 | 0KLC300.X | 1 pcs/box | 07945823091 |
| KLC | 350 | 350. | KLC350 | 0KLC350.X | 1 pcs/box | 07945823092 |
| KLC | 400 | 400. | KLC400 | 0KLC400.X | 1 pcs/box | 07945823093 |
| KLC | 450 | 450. | KLC450 | 0KLC450.X | 1 pcs/box | 07945823095 |
| KLC | 500 | 500. | KLC500 | 0KLC500.X | 1 pcs/box | 07945823096 |
| KLC | 600 | 600. | KLC600 | 0KLC600.X | 1 pcs/box | 07945823098 |
| KLC | 700 | 700. | KLC700 | 0KLC700.X | 1 pcs/box | 07945823101 |
| KLC | 800 | 800. | KLC800 | 0KLC800.X | 1 pcs/box | 07945823103 |

*KLC series fuses are recommended for replacement use only.


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## Dimensions

| AMPERE RATING | FIG. NO. | DIMENSIONS INCHES (MM) | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| | | A | B | C | D | E | F | G | H |
| L60S SERIES, 600 V AC | | | | | | | | | |
| 1 – 30 | 1 | 5 (127.0) | — | 5/8 (15.9) | 13/16 (20.6) | — | — | — | — |
| 31 – 60 | 2 | 2 25/32 (70.6) | 3 7/16 (87.3) | 3 11/16 (93.7) | 4 3/8 (111.1) | 13/16 (20.6) | 23/32 (18.3) | 11/32 (8.7) | 1/8 (3.2) |
| 61 – 100 | 2 | 2 29/32 (73.8) | 3 17/32 (89.7) | 3 25/32 (96.0) | 4 15/32 (113.5) | 1 1/16 (27.0) | 23/32 (18.3) | 11/32 (8.7) | 1/8 (3.2) |
| 101 – 200 | 2 | 2 29/32 (73.8) | 3 9/16 (90.5) | 3 3/4 (95.3) | 4 13/32 (111.9) | 1 5/16 (33.3) | 1 (25.4) | 5/16 (7.9) | 3/16 (4.8) |
| 201 – 400 | 2 | 2 29/32 (73.8) | 3 31/32 (100.8) | 4 5/32 (105.6) | 5 1/8 (130.2) | 1 37/64 (40.1) | 1 (25.4) | 1 3/32 (10.3) | 1/4 (6.4) |
| 401 – 600 | 2 | 2 7/8 (73.0) | 3 31/32 (100.8) | 4 9/64 (105.2) | 5 1/8 (130.2) | 2 1/16 (52.8) | 1 1/2 (38.1) | 1 3/32 (10.3) | 1/4 (6.4) |
| 601 – 800 | 2 | 3 1/32 (77.0) | 5 5/32 (133.4) | 5 11/32 (135.7) | 7 1/4 (184.2) | 2 1/2 (63.5) | 2 (50.8) | 1 7/32 (13.5) | 3/8 (9.5) |
| KLC SERIES, 600 V AC | | | | | | | | | |
| 1 – 30 | 2 | 1 7/8 (47.6) | 2 1/2 (63.5) | — | 2 7/8 (73.0) | 9/16 (14.3) | 13/32 (10.3) | 1/4 (6.4) | 3/64 (1.2) |
| 31 – 60 | 2 | 2 3/4 (69.9) | 3 3/8 (85.7) | 3 5/8 (92.1) | 4 5/16 (109.5) | 13/16 (20.6) | 23/32 (18.3) | 11/32 (8.7) | 1/8 (3.2) |
| 61 – 100 | 3 | 2 7/8 (73.0) | 3 21/32 (92.9) | 4 1/16 (103.2) | 5 (127.0) | 1 (25.4) | 3/4 (19.1) | 13/32 (10.3) | 1/8 (3.2) |
| 101 – 200 | 3 | 2 27/32 (72.2) | 3 17/32 (89.7) | 4 3/8 (111.1) | 5 3/32 (129.4) | 1 1/2 (38.1) | 1 (25.4) | 13/32 (10.3) | 1/4 (6.4) |
| 201 – 400 | 3 | 2 27/32 (72.2) | 4 21/32 (118.3) | 4 27/32 (123.0) | 6 1/4 (158.8) | 2 (50.8) | 1 5/8 (41.3) | 9/16 (14.3) | 1/4 (6.4) |
| 401 – 800 | 3 | 2 27/32 (72.2) | 4 21/32 (118.3) | 5 11/32 (135.7) | 6 1/4 (158.8) | 2 1/2 (63.5) | 2 (50.8) | 9/16 (14.3) | 3/8 (9.5) |

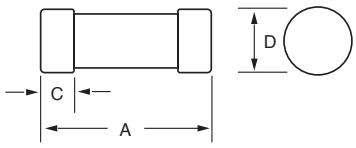
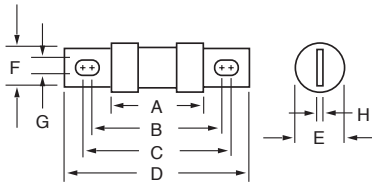


Fig. 1



Fig, 2

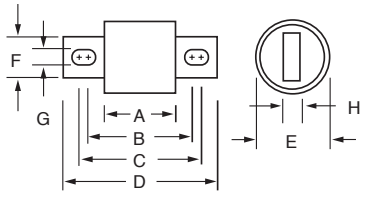


Fig. 3


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# POWR-*SPEED*® Fuse Accessories

## LSCR SERIES HIGH-SPEED FUSE BLOCKS

700 V • 1000 V • 1500 V



## Description

Littelfuse LSCR series is a comprehensive line of modular fuse blocks, designed to accommodate a wide range of high-speed and UL power fuses. These LSCR series blocks have a modular stud-type design that enables easy mounting in panel boards.

## Features/Benefits

- Modular design reduces inventory requirements
- Sold in pairs for convenience
- Supplied with nut and belleville washer

## Specifications

| | |
|---|---|
| **Voltage Rating** | 700 V / 1000 V / 1500 V |
| **Ampere Rating** | 400 A, 800 A and 1200 A |
| **Withstand Rating** | 200 kA / 250 kA |
| **Approvals** | UL Recognized (File: E14721)<br>cURus Recognized (E14721)<br>CSA Certified (File: 73160) |
| **Material Base** | Molded phenolic or thermoplastic |
| **Terminal Construction** | Steel, zinc-plated |
| **Flammability Rating** | UL 94 V-0 |
| **Environmental** | RoHS compliant |
| **Country of Origin** | LSCR0xx - China<br>LSCR1xx - USA |

## Web Resources

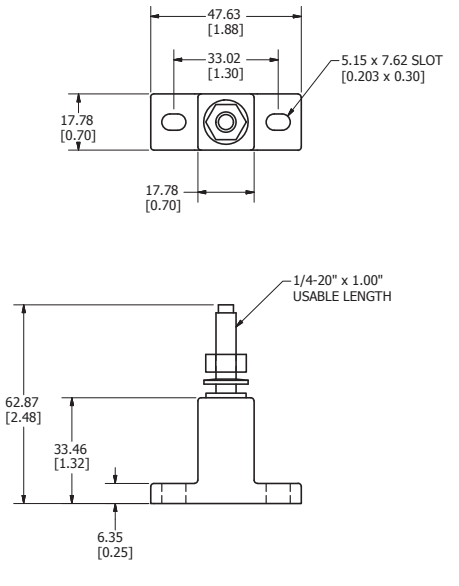
For more information, visit: **Littelfuse.com/LSCR**

## Electrical & Mechanical Specifications

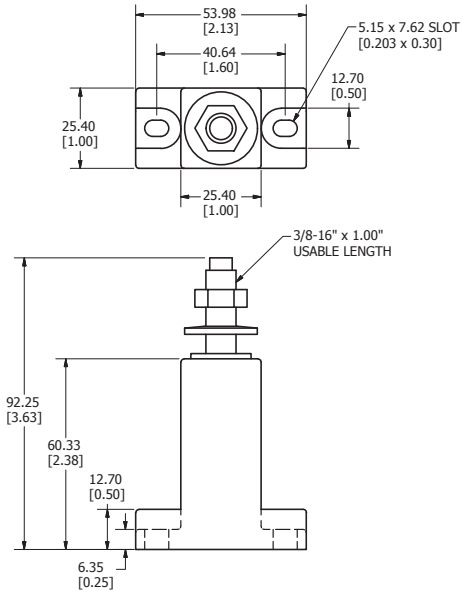
| CATALOG/ ORDERING NUMBER | AMPERE RATING | VOLTAGE RATING | | INTERRUPTING RATING | | INSULATOR | | SUGGESTED STUD TORQUE | | MOUNTING FASTNER SIZE | SUGGESTED FASTENER TORQUE | | AGENCY APPROVALS | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | AC | DC | AC | DC | MATERIAL | MAX. BASE TEMPERATURE | (in.lbs) | (N•m) | | (in.lbs) | (N•m) | UR | cURus | CSA |
| LSCR001 | 400 A | 700 V | 1500 V | 200 kA | 250 kA | Molded Phenolic | 150 °C (302 °F) | 61 | 6.8 | #10 | 20–25 | 2.3–2.8 | • | | • |
| LSCR002 | 800 A | 700 V | 1500 V | 200 kA | 250 kA | Molded Phenolic | 150 °C (302 °F) | 192 | 21.6 | #10 | 20–25 | 2.3–2.8 | • | | • |
| LSCR101 | 400 A | 1000 V | 1000 V | 200 kA | 200 kA | Thermoplastic | 125 °C (257 °F) | 67.5–82.5 | 7.6–9.3 | #10 | 12 max | 1.3 max | | • | |
| LSCR102 | 800 A | 1000 V | 1000 V | 200 kA | 200 kA | Thermoplastic | 125 °C (257 °F) | 207–253 | 23.4–28.6 | #10 | 12 max | 1.3 max | | • | |
| LSCR103 | 1200 A | 1000 V | 1000 V | 200 kA | 200 kA | Thermoplastic | 125 °C (257 °F) | 270–330 | 30.5–37.3 | ¼" | 12 max | 1.3 max | | • | |


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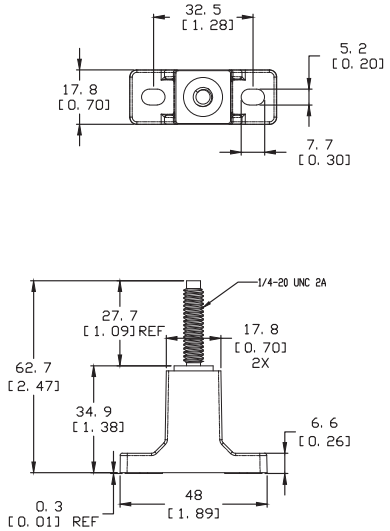
## Dimensions mm (inches)



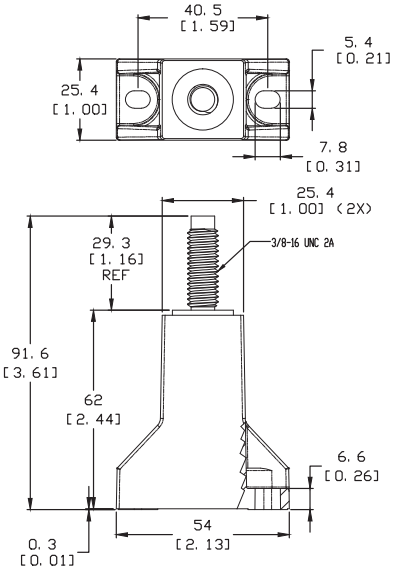

**LSCR001**

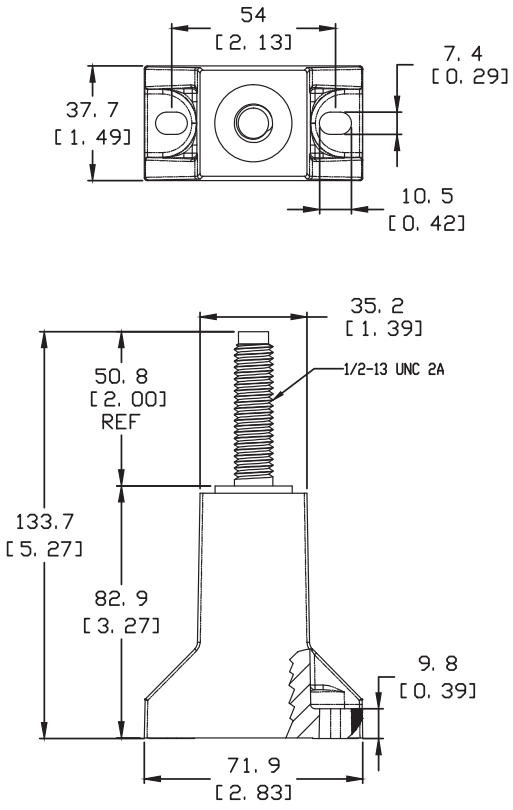



**LSCR002**




**LSCR101**





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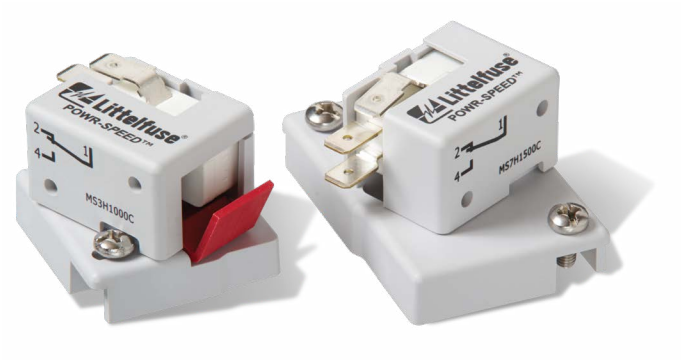
## High-Speed Fuse Block Selection Guide

| FUSE SERIES | CATALOG NUMBER | LSCR001 | LSCR002 | LSCR101 | LSCR102 | LSCR103 |
|---|---|---|---|---|---|---|
| | TERMINAL SIZE | 1/4–20 UNC | 3/8–16 UNC | 1/4–20 UNC | 3/8–16 UNC | 1/2–13 UNC |
| | VOLTAGE RATING | 700 V ac/1500 V dc | 700 V ac/1500 V dc | 1000 V ac/dc | 1000 V ac/dc | 1000 V ac/dc |
| | AMPERE RATING | 400 A | 800 A | 400 A | 800 A | 1200 A |
| L15S | 70–400 | X | | X | | |
| | 500–800 | | X | | X | |
| L17T | 70–250 | X | | X | | |
| | 300–800 | | X | | X | |
| L25S | 35–200 | X | | X | | |
| | 225–800 | | X | | X | |
| L50S | 35–200 | X | | X | | |
| | 225–800 | | X | | X | |
| | 700–800 | | | | | X |
| L50QS | 35–200 | X | | X | | |
| | 225–800 | | X | | X | |
| | 700–800 | | | | | X |
| L60S | 35–200 | X | | X | | |
| | 225–800 | | X | | X | |
| | 700–800 | | | | | X |
| KLC | 35–60 | X | | X | | |
| | 70–800 | | X | | X | |
| | 225–800 | | | | | X |
| L70S | 35–100 | X | | X | | |
| | 125–800 | | X | | X | |
| | 450–800 | | | | | X |
| L70QS | 35–100 | X | | X | | |
| | 125–800 | | X | | X | |
| | 450–800 | | | | | X |
| JLLN | 70–200 | X | | X | | |
| | 225–800 | | X | | X | |
| | 700–1200 | | | | | X |
| JLLS | 70–200 | X | | X | | |
| | 225–800 | | X | | X | |
| | 700–1200 | | | | | X |
| JLS | 70–100 | X | | X | | |
| | 110–200 | X | | X | | |
| | 225–400 | | X | | X | |
| | 450–600 | | X | | X | |
| SPFJ | 70–100 | X | | X | | |
| | 125–200 | X | | X | | |
| | 250–400 | | X | | X | |
| | 450 | | | | | X |
| L75QS | 35–100 | X | | X | | |
| | 125–800 | | X | | X | |
| | 450–800 | | | | | X |

**Disclaimer Notice** – Information furnished is believed to be accurate and reliable. However, users should independently evaluate the suitability of and test each product selected for their own applications. Littelfuse products are not designed for, and may not be used in, all applications. **Read complete Disclaimer Notice at www.littelfuse.com/product-disclaimer.**


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## Microswitch for Square Body Fuse




## Description

Littelfuse MS series external mount microswitches offer permanent blown fuse indication to PSR and PSX series high-speed square-body semiconductor fuses. They have one normally open (N.O.) and one normally closed (N.C.) contact rated for 4 A, 250 V ac.

These microswitches have a visual red flap or arm indicator that releases after fuse blown condition and can also be used for resetting the microswitch contacts.

## Features/Benefits

- Available in three sizes to fit PSR and PSX series fuses
- Internal microswitch UL recognized
- Red flap visual indicator and contact reset mechanism

## Specifications

| | |
|---|---|
| **Voltage Rating** | See Electrical Characteristics table |
| **Amperage Rating** | See Electrical Characteristics table |
| **Operating Temperature** | -25 °C to +125 °C |
| **Relative Humidity** | 85 % |
| **Contact** | Silver-nickel plated copper |
| **Approvals** | Internal microswitch part number: MS1-16Z0-A150, recognized under UL File: E176213 |
| **Flammability** | UL 94 V0 |
| **Environmental** | RoHS Compliant |
| **Country of Origin** | China |

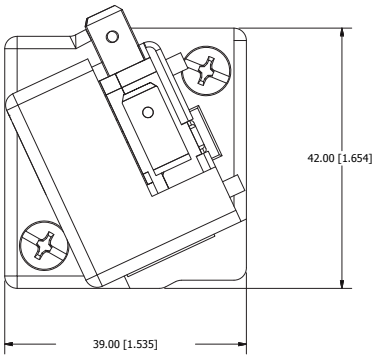
## Electrical Characteristics

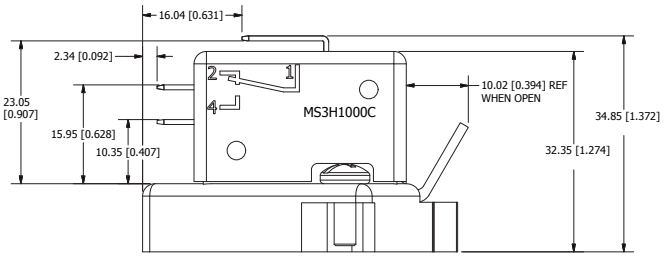
| CATALOG NUMBER | ORDERING NUMBER | INDICATING STYLE | INSULATION VOLTAGE RATING | COMPATIBLE FUSE SERIES | FUSE CASE SIZE | NON-INDUCTIVE LOAD | | | PACK QUANTITY |
|---|---|---|---|---|---|---|---|---|---|
| | | | | | | 30 V DC | 125 V AC | 250 V AC | |
| MS3H1000C | MS3H1000C | Standard NO-NC | 1000 | PSR | 30, 31, 32, 33 | 10 A | 16 A | 4 A | 3 Pcs/Bag |
| MS7H1500C | MS7H1500C | Standard NO-NC | 1500 | PSR | 70, 71, 72, 73 | 10 A | 16 A | 4 A | 3 Pcs/Bag |
| MSXL2000C | MSXL2000C | Standard NO-NC | 2000 | PSX | 1XL, 3XL | 10 A | 16 A | 4 A | 1 Pcs/Bag |


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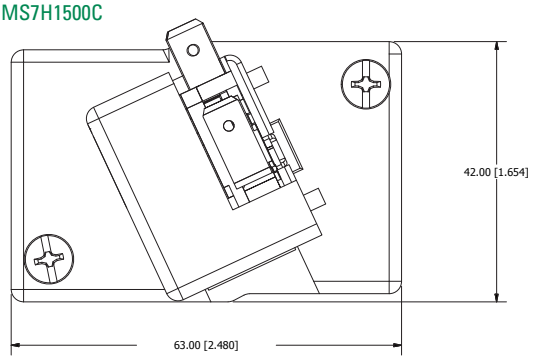
## Dimensions

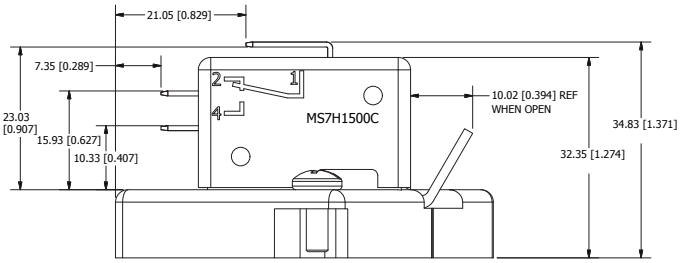
### MS3H1000C



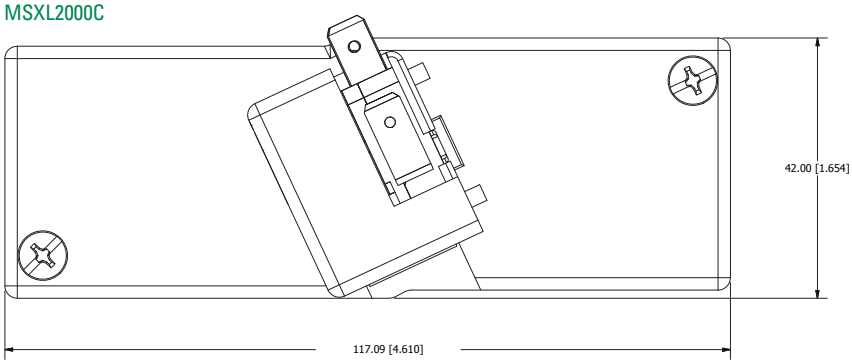



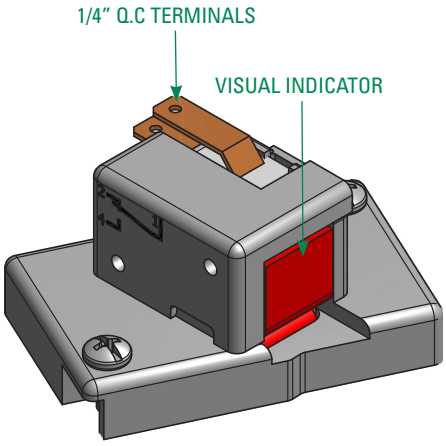

### MS7H1500C

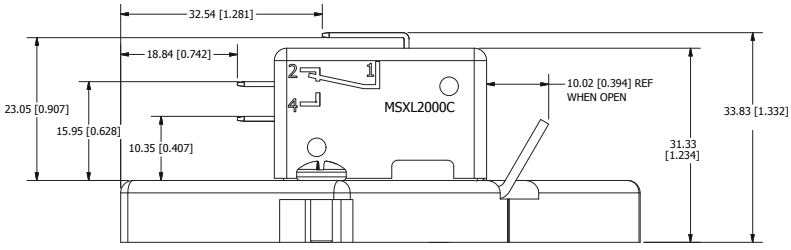



### MSXL2000C





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170 V dc • Current-Limiting • 70–1200 A




## Specifications

| | |
|---|---|
| **Voltage Rating** | 170 V dc |
| **Interrupting Rating** | 100 kA |
| **Ampere Range** | 70–1200 A |
| **Approvals** | UL Recognized (File: E71611)<br>CSA Recognized (File: LR29862) |

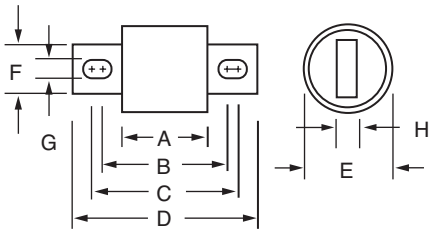
## Ordering Information

| AMPERE RATINGS | | | | | | |
|---|---|---|---|---|---|---|
| 70 | 125 | 200 | 300 | 450 | 800 | 1100 |
| 90 | 150 | 225 | 350 | 500 | 900 | 1200 |
| 100 | 175 | 250 | 400 | 600 | 1000 | — |

| SERIES | VOLTAGE | AMPERAGE | CATALOG NUMBER | ORDERING NUMBER |
|---|---|---|---|---|
| L17T | 170 | 1200 | L17T 1200 | L17T1200V |

## Dimensions
### Inches (mm)

| AMPERE RATING | DIMENSIONS INCHES (mm) | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| | A | B | C | D | E | F | G | H |
| 70–250 | 1 5/32 (29.4) | 1 7/8 (47.6) | 2 3/16 (55.6) | 2 21/32 (67.5) | 1 (25.4) | 7/8 (22.2) | 0.327 (8.3) | 3/16 (4.8) |
| 300–800 | 1 1/4 (31.8) | 1 15/16 (49.2) | 2 9/16 (65.1) | 3 1/2 (88.9) | 1 1/2 (38.1) | 1 (25.4) | 13/32 (10.3) | 1/4 (6.35) |
| 900–1200 | 1 11/32 (34.0) | — | — | 4 1/16 (103.1) | — | 1 1/2 (38.1) | — | 1/4 (6.35) |




## Description

Specifically designed for short-circuit protection of telecommunications circuits, the Littelfuse L17T series fuses provide reliable protection of sensitive dc power distribution systems. Constructed with silver plated elements for low $I^2t$ and peak let-through, these advanced fuses virtually eliminate equipment damage due to surges and spikes. The L17T series fuse unique element geometry also provides cooler running temperatures, helping to minimize heat within enclosures.

## Features

- Low $I^2t$
- Extremely current-limiting
- Low operating temperature
- 170 V dc rating

## Recommended Fuse Holders

LTFD 6001 and LTFD 1200 series, visit: **Littelfuse.com/ltfd**

## Web Resources

For additional information, visit: **Littelfuse.com/l17t**



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170 V dc • Current-Limiting • 1–125 A




## Description

Littelfuse TLS series fuses are designed specifically for the protection of telecommunications equipment. TLS fuses have been engineered to operate up to 170 V dc to provide current-limiting short-circuit protection for cables and components found in the dc power distribution circuits of telecommunications systems. The compact design and multiple mounting configurations of the TLS series allow it to be used in a variety of applications.

## Features

- 170 V dc rating
- Current-limiting
- 1–125 amperes rating
- Multiple mounting configurations — cartridge, vertical, leaded, bolt-in, or solder type. See dimensions on the following pages for mounting style details.
- RoHS Compliant

## Applications

- Telecommunication equipment protection
- Short-circuit current protection

## Recommended Fuse Holders

- LFTD series disconnect switches
- LFT30060 for TLS series cartridge style fuse

Contact factory for more information.

## Web Resources

For additional information, visit: **Littelfuse.com/tls**

## Specifications

| | |
|---|---|
| **Voltage Rating** | 170 V dc |
| **Ampere Range** | 1–125 amperes |
| **Interrupting Rating** | 100 kA |
| **Approvals** | UL Recognized (File: E71611)<br>TUV (70 kA IR) |
| **Material** | Body: glass melamine<br>Caps: silver-plated brass |
| **Environmental** | RoHS Compliant, lead (Pb) free |
| **Applicable Standards** | UL 248-1<br>IEC-60269-4 |

## Ordering Information

| AMPERE RATINGS | | | | |
|---|---|---|---|---|
| 1 | 6 | 25 | 50 | 90 |
| 2 | 10 | 30 | 60 | 100 |
| 3 | 15 | 35 | 70 | 110* |
| 5 | 20 | 40 | 80 | 125* |

*Available in standard cartridge, LSE solder, and LR bolt-in.

## Part Numbering System

**0TLS xxx T –**

**Series**

**Amp Code**

**Package Quantity**
T = 10
S = 20 (only LSA)

**Mounting Options**
Blank = Cartridge
XV = Vertical
XL = Leaded
XLB = Bolt-In
XLS = Solder
XMB = Solder (Mid-Board Mount)
XLSE = Solder†
XLR = Bolt-In†
LSA = Solder

| SERIES | AMPERE | MOUNTING METHOD | MOUNTING SUFFIX | CATALOG NUMBER | ORDERING NUMBER | FUSE LABEL ID |
|---|---|---|---|---|---|---|
| TLS | 6 | Cartridge | – | TLS006 | 0TLS006.T | TLS 6A |
| TLS | 15 | Vertical | V | TLS015V | 0TLS015.TXV | TLS 15A-V |
| TLS | 35 | Leaded | L | TLS035L | 0TLS035.TXL | TLS 35A-L |
| TLS | 50 | Bolt-In | LB | TLS050LB | 0TLS050.TXLB | TLS 50A-LB |
| TLS | 80 | Solder | LS | TLS080LS | 0TLS080.TXLS | TLS 80A-LS |
| TLS | 100 | Solder | MB | TLS100MB | 0TLS100.TXMB | TLS 100A-MB |
| TLS | 125 | Solder | LSE | TLS125LSE | 0TLS125.TXLSE | TLS 125A-LSE |
| TLS | 125 | Bolt-In | LR | TLS125LR | 0TLS125.TXLR | TLS 125A-LR |
| TLS | 30 | Solder | LSA | TLS030LSA | 0TLS030.SLSA | TLS 30A-LSA |

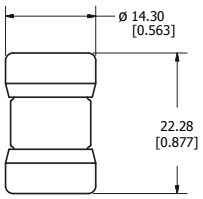
†Option is available for 35 to 125 amperage only



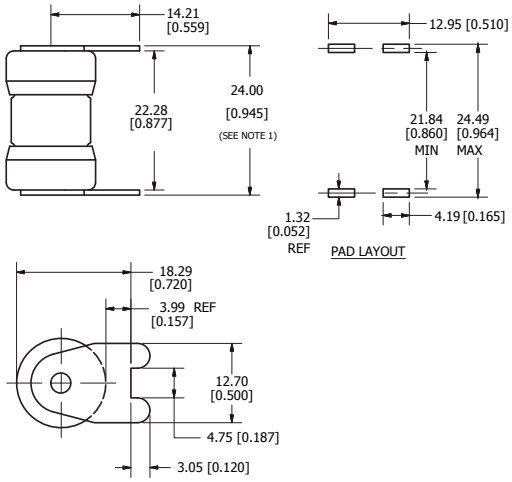
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## Dimensions
### Millimeters [inches]

**Ferrule Version - TLS**

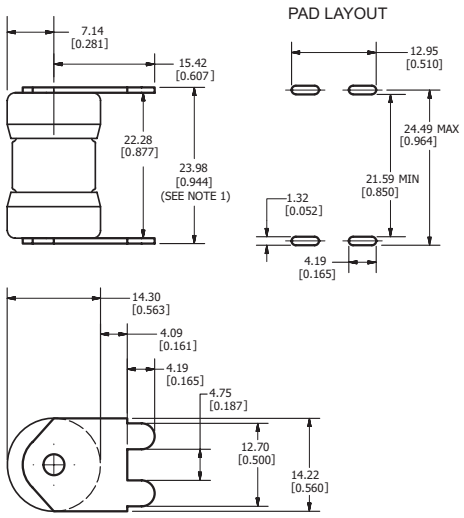



**Solder Mount - LS Version**



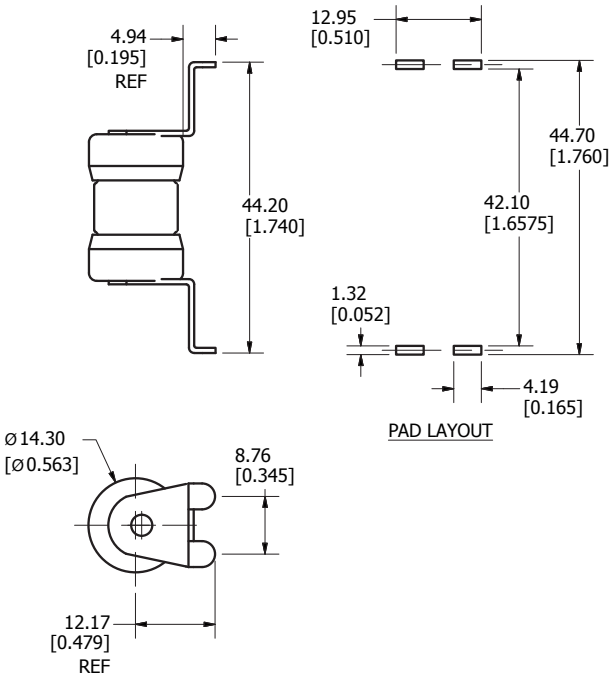

NOTE:
1. MEASUREMENT TAKEN AT END OF TERMINALS.

**Solder Mount - LSE Version**

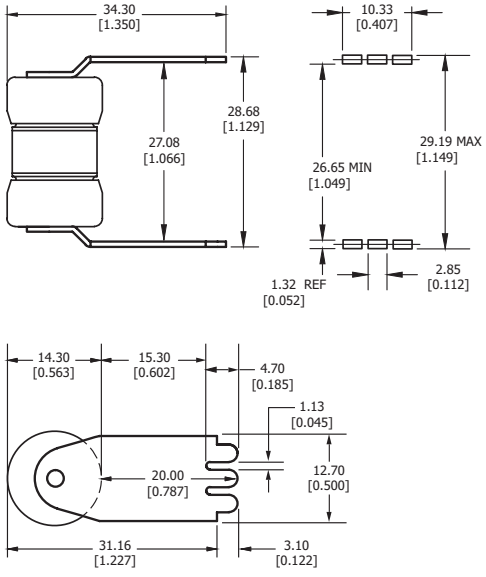



NOTE 1: Measurement taken at end of terminals.

**Solder Mount - L Version**




**Solder Mount - LSA Version**

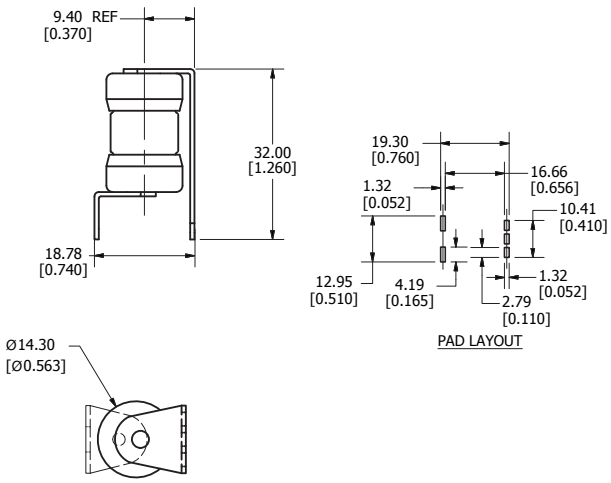




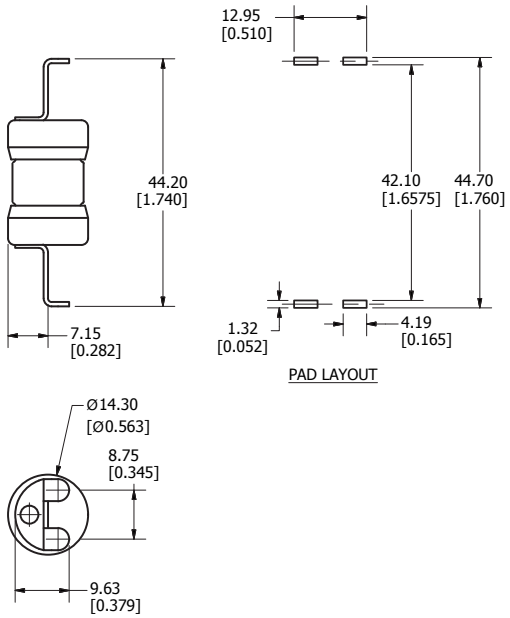
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## Dimensions
### Millimeters [inches]

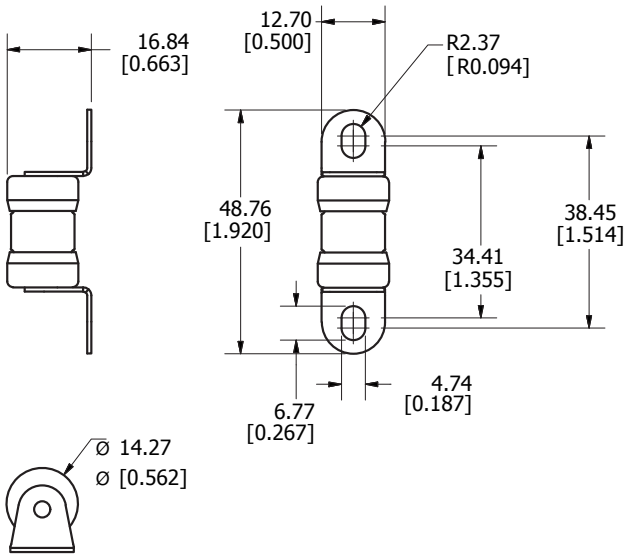
**Solder Mount - V Version**



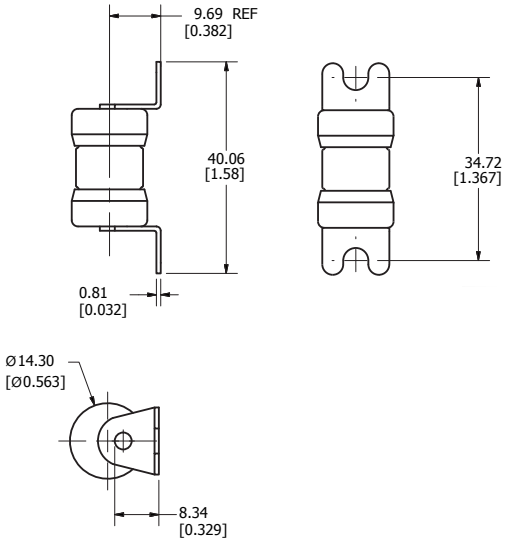

**Solder Mount - MB Version**




**Bolt-In Mount - LR Version**




**Bolt-In Mount - LB Version**




NOTES:

RECOMMENDED HARDWARE: #8 SLOTTED HEX WASHER HEAD MACHINE SCREW

TORQUE: 10 IN-LB


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# POWR-*SPEED*® Fuse
## CROSS REFERENCE GUIDE



This guide covers the most popular high-speed fuse types that Littelfuse has in stock and ready to ship. The cross reference is meant to serve as a guide for quick identification and product selection. We suggest you check all applicable specifications before making substitutions.

| COMPETITOR | LITTELFUSE |
|---|---|
| 90 203 38 LG | ESR |
| 90-445 | PSX |
| 90-447 | PSX |
| 170M | PSR |
| 170M (size 4) | PSX |
| A_UD | PSR |
| A013F | L15S |
| A015F | L15S |
| A015R | L15S |
| A025F | L25S |
| A050F | L50S ‡ |
| A060F | L60S |
| A070F | L70S ‡ |
| A13X | L15S |
| A25X | L25S † |
| A50P (type 1 & 4) | L50QS |

| COMPETITOR | LITTELFUSE |
|---|---|
| A50QS | L50QS |
| A60X | L60S |
| A70P | L70QS |
| A70QS | L70QS |
| CHSF | L50QS |
| ESS3 | ESR |
| FWA | L15S † § |
| FWH | L50QS |
| FWP | L70QS |
| FWX | L25S * † |
| KAA | L15S |
| KAB | L25S |
| KAC | KLC |
| KBH | L50S ‡ |
| PC_UD | PSR |
| PSC | PSR |

| COMPETITOR | LITTELFUSE |
|---|---|
| PSC_9X | PSX |
| RFA | L15S |
| RFC | KLC |
| RFL (750 V) | L70S (700 V) |
| RFV | L50S ‡ |
| RSZ307-3-RAZ | ESR |
| SF13X | L15S |
| SF25X | L25S |
| SF50P | L50S ‡ |
| SF60X | L60S |
| SF70P | L70S ‡ |
| XL25X | L25S |
| XL50F | L50S * ‡ |
| XL70F | L70S * ‡ |

* Check specific mounting dimensions before substituting.
† Check characteristics and dimensions for application before substituting.
‡ For replacement purpose only. For new application L50QS or L70QS series are recommended.
§ Verify voltage for dc applications.

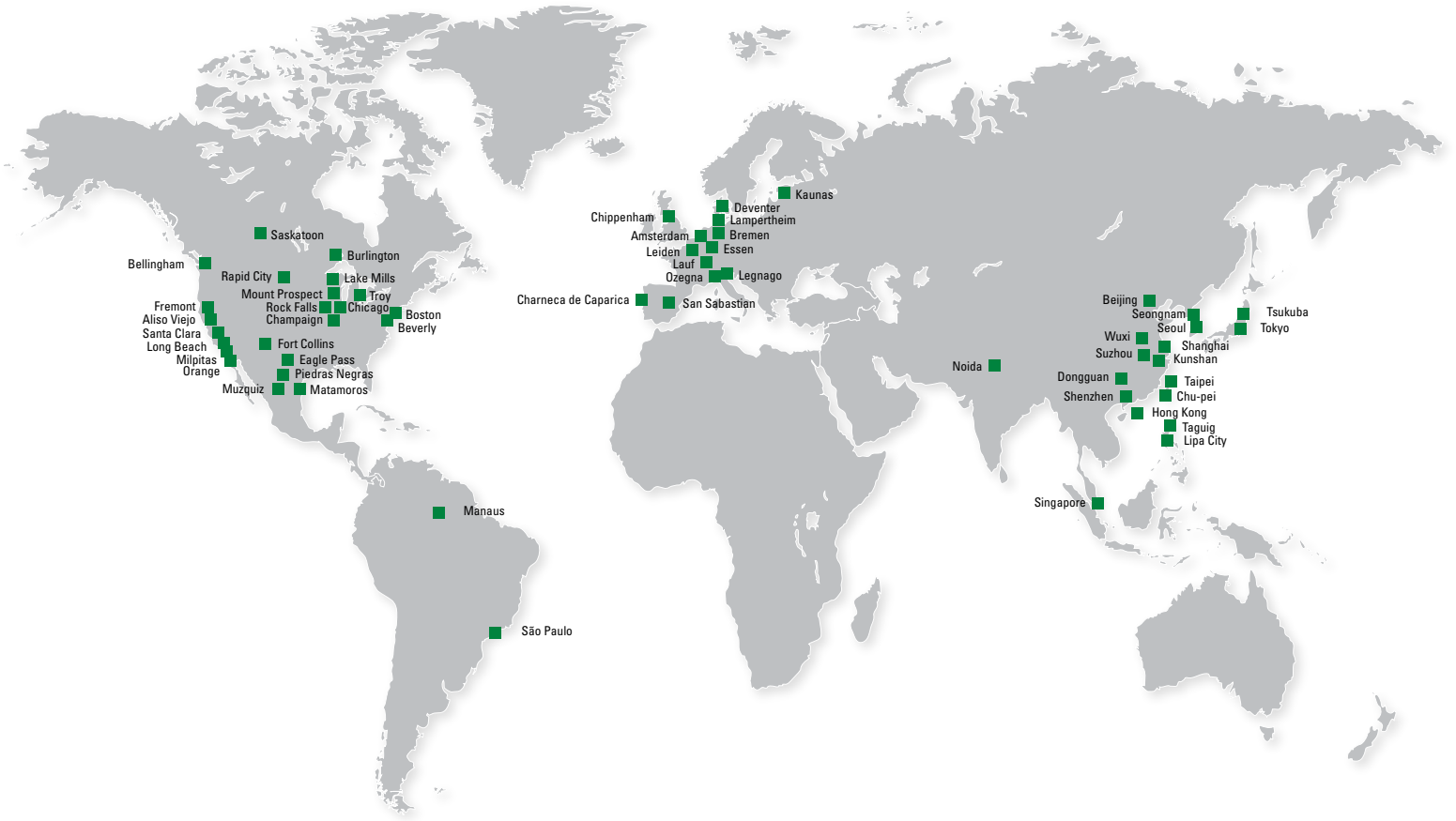
For more information or a complete listing of high-speed fuses offered visit Littelfuse.com/POWR-*SPEED* or call 1-800-TEC-FUSE.


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## NOTES


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# Local Resources for a **GLOBAL** Market






### Protection Relays & Controls Catalog (PF130N)

The comprehensive line of electronic and microprocessor-based protection relays safeguard equipment and personnel to prevent expensive damage, downtime or injury due to electrical faults.



### Fuses and Fuse Holders Catalog (PF101N)

Littelfuse offers a complete circuit protection portfolio of industrial power fuses, including time-saving indication products for an instant visual blown-fuse identification.



### POWR-GARD® Solar Catalog (PF140N)

POWR-GARD® Solar Products are designed specifically for photovoltaic applications where issues such as heat, efficiency, longevity and global standards impact the choices in selecting circuit protection.

To view all Littelfuse product catalogs, visit our website at **littelfuse.com/Catalogs**

### Visit Technical Resources at Littelfuse.com

Technical information is only a click away. The Littelfuse Technical Resources contains datasheets, product manuals, whitepapers, application guides, demos, on-line design tools, and more.

## An Extension of Your Team

### Technical Hotline (800-TEC-FUSE or 800-832-3873)

Littelfuse engineers are a phone call away to help identify potential issues and provide product recommendations to resolve problems.

### Application and Field Support

Our experienced product and application engineers work step-by-step with customers from design to installation to determine the best solution.








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Littelfuse products are certified to many standards around the world. To check certifications on specific product please refer to the product datasheet on Littelfuse.com.


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**FORM: PF611**
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