

# Class J High-Speed Drive Fuses



1 – 60 A



70 – 600 A

EDISON JHL Class J fuses combine the performance of high-speed semiconductor fuses and the convenience of Class J branch-circuit fuses in one small package, allowing maximum protection for AC and DC drives\* and controllers.

*\* Note: JHL fuses can be used with GS and DURApulse drives in non-UL applications. Fuse the drive according to NEC guidelines (NEC Article 430). For UL applications, GS and DURApulse drives require Class T fuses (refer to the drive's user manual for details).*

## Applications

- AC and DC drives
- Electronic motor controllers
- Power semiconductor devices that utilize diodes, GTOs, SCR's, or SSR's

## JHL Features

- Space saving Class J dimensions allow the use of readily available Class J fuse blocks, holders, and switches
- Allows the lowest I<sup>2</sup>t let-through energy of any branch-circuit overcurrent protective device
- Works with existing and new variable speed drives and electronic motor controllers
- Meets UL, CSA, and NEC requirements for branch circuit protection devices

## Specifications

Voltage Rating: 600 VAC; 450 VDC

Ampere Rating: 1 – 600 Amps

Interrupting Rating:  
200,000 RMS Symmetrical Amps;  
100,000 DC Amps

Current Limiting: Class J Fuse

## Agency Approvals

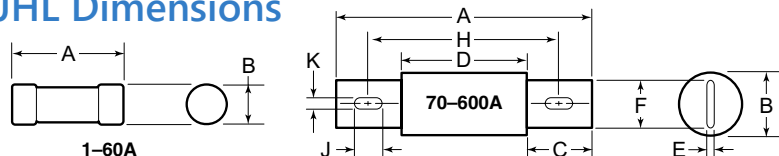
- UL, std 248-8, Class J, Guide JDDZ, File E162363
- CSA Certified, C22.2 # 248.8, Class 1422-02, File 700489
- RoHS compliant

## CROSS REFERENCE

| VOLTS | EDISON | COOPER /<br>BUSSMANN | FERRAZ /<br>HERSEN | LITTELFUSE |
|-------|--------|----------------------|--------------------|------------|
| 600   | JHL    | DFJ                  | HSJ                | -          |

| JHL Series Class J High-Speed Drive Fuses |            |                     |         |                     |          |                           |         |                     |         |
|-------------------------------------------|------------|---------------------|---------|---------------------|----------|---------------------------|---------|---------------------|---------|
| Part Number                               | AMP Rating | Rated Voltage (max) | Pcs/Pkg | Pkg Weight (lb[kg]) | Price    | Part Number               | Pcs/Pkg | Pkg Weight (lb[kg]) | Price   |
| <a href="#">JHL1</a>                      | 1          | 600 VAC<br>450 VDC  | 10      | 1.0<br>[0.45]       | \$218.00 | <a href="#">JHL1-1</a>    | 1       | 0.10<br>[0.05]      | \$29.50 |
| <a href="#">JHL2</a>                      | 2          |                     |         |                     | \$235.00 | <a href="#">JHL2-1</a>    |         |                     | \$29.50 |
| <a href="#">JHL3</a>                      | 3          |                     |         |                     | \$218.00 | <a href="#">JHL3-1</a>    |         |                     | \$29.50 |
| <a href="#">JHL4</a>                      | 4          |                     |         |                     | \$246.00 | <a href="#">JHL4-1</a>    |         |                     | \$31.00 |
| <a href="#">JHL5</a>                      | 5          |                     |         |                     | \$235.00 | <a href="#">JHL5-1</a>    |         |                     | \$29.50 |
| <a href="#">JHL6</a>                      | 6          |                     |         |                     | \$235.00 | <a href="#">JHL6-1</a>    |         |                     | \$29.50 |
| <a href="#">JHL8</a>                      | 8          |                     |         |                     | \$249.00 | <a href="#">JHL8-1</a>    |         |                     | \$31.00 |
| <a href="#">JHL10</a>                     | 10         |                     |         |                     | \$235.00 | <a href="#">JHL10-1</a>   |         |                     | \$29.50 |
| <a href="#">JHL12</a>                     | 12         |                     |         |                     | \$249.00 | <a href="#">JHL12-1</a>   |         |                     | \$31.00 |
| <a href="#">JHL15</a>                     | 15         |                     |         |                     | \$237.00 | <a href="#">JHL15-1</a>   |         |                     | \$29.50 |
| <a href="#">JHL17P5</a>                   | 17.5       |                     |         |                     | \$242.00 | <a href="#">JHL17P5-1</a> |         |                     | \$28.00 |
| <a href="#">JHL20</a>                     | 20         |                     |         |                     | \$237.00 | <a href="#">JHL20-1</a>   |         |                     | \$29.50 |
| <a href="#">JHL25</a>                     | 25         |                     |         |                     | \$237.00 | <a href="#">JHL25-1</a>   |         |                     | \$29.50 |
| <a href="#">JHL30</a>                     | 30         |                     |         |                     | \$237.00 | <a href="#">JHL30-1</a>   |         |                     | \$29.50 |
| <a href="#">JHL35</a>                     | 35         |                     |         | 1.5<br>[0.68]       | \$405.00 | <a href="#">JHL35-1</a>   |         | 0.16<br>[0.07]      | \$46.50 |
| <a href="#">JHL40</a>                     | 40         |                     |         |                     | \$405.00 | <a href="#">JHL40-1</a>   |         |                     | \$46.50 |
| <a href="#">JHL45</a>                     | 45         |                     |         |                     | \$405.00 | <a href="#">JHL45-1</a>   |         |                     | \$46.50 |
| <a href="#">JHL50</a>                     | 50         |                     |         |                     | \$405.00 | <a href="#">JHL50-1</a>   |         |                     | \$46.50 |
| <a href="#">JHL60</a>                     | 60         |                     |         |                     | \$405.00 | <a href="#">JHL60-1</a>   |         |                     | \$50.00 |
| <a href="#">JHL70</a>                     | 70         |                     | 1       | 0.30<br>[0.14]      | \$82.00  |                           |         | 0.16<br>[0.07]      |         |
| <a href="#">JHL80</a>                     | 80         |                     |         |                     | \$82.00  |                           |         |                     |         |
| <a href="#">JHL90</a>                     | 90         |                     |         |                     | \$87.00  |                           |         |                     |         |
| <a href="#">JHL100</a>                    | 100        |                     |         | 0.70 [0.32]         | \$82.00  |                           |         |                     |         |
| <a href="#">JHL110</a>                    | 110        |                     |         |                     | \$159.00 |                           |         |                     |         |
| <a href="#">JHL125</a>                    | 125        |                     |         | 0.8<br>[0.36]       | \$166.00 |                           |         |                     |         |
| <a href="#">JHL150</a>                    | 150        |                     |         |                     | \$166.00 |                           |         |                     |         |
| <a href="#">JHL175</a>                    | 175        |                     |         |                     | \$163.00 |                           |         |                     |         |
| <a href="#">JHL200</a>                    | 200        |                     |         | 1.6<br>[0.73]       | \$166.00 |                           |         |                     |         |
| <a href="#">JHL225</a>                    | 225        |                     |         |                     | \$282.00 |                           |         |                     |         |
| <a href="#">JHL250</a>                    | 250        |                     |         |                     | \$255.00 |                           |         |                     |         |
| <a href="#">JHL300</a>                    | 300        |                     |         |                     | \$255.00 |                           |         |                     |         |
| <a href="#">JHL350</a>                    | 350        |                     |         |                     | \$265.00 |                           |         |                     |         |
| <a href="#">JHL400</a>                    | 400        |                     |         |                     | \$255.00 |                           |         |                     |         |
| <a href="#">JHL450</a>                    | 450        |                     |         | 2.6<br>[1.18]       | \$387.00 |                           |         |                     |         |
| <a href="#">JHL500</a>                    | 500        |                     |         |                     | \$400.00 |                           |         |                     |         |
| <a href="#">JHL600</a>                    | 600        |                     |         |                     | \$391.00 |                           |         |                     |         |

## JHL Dimensions



## JHL Series Dimensions - Inches [mm]

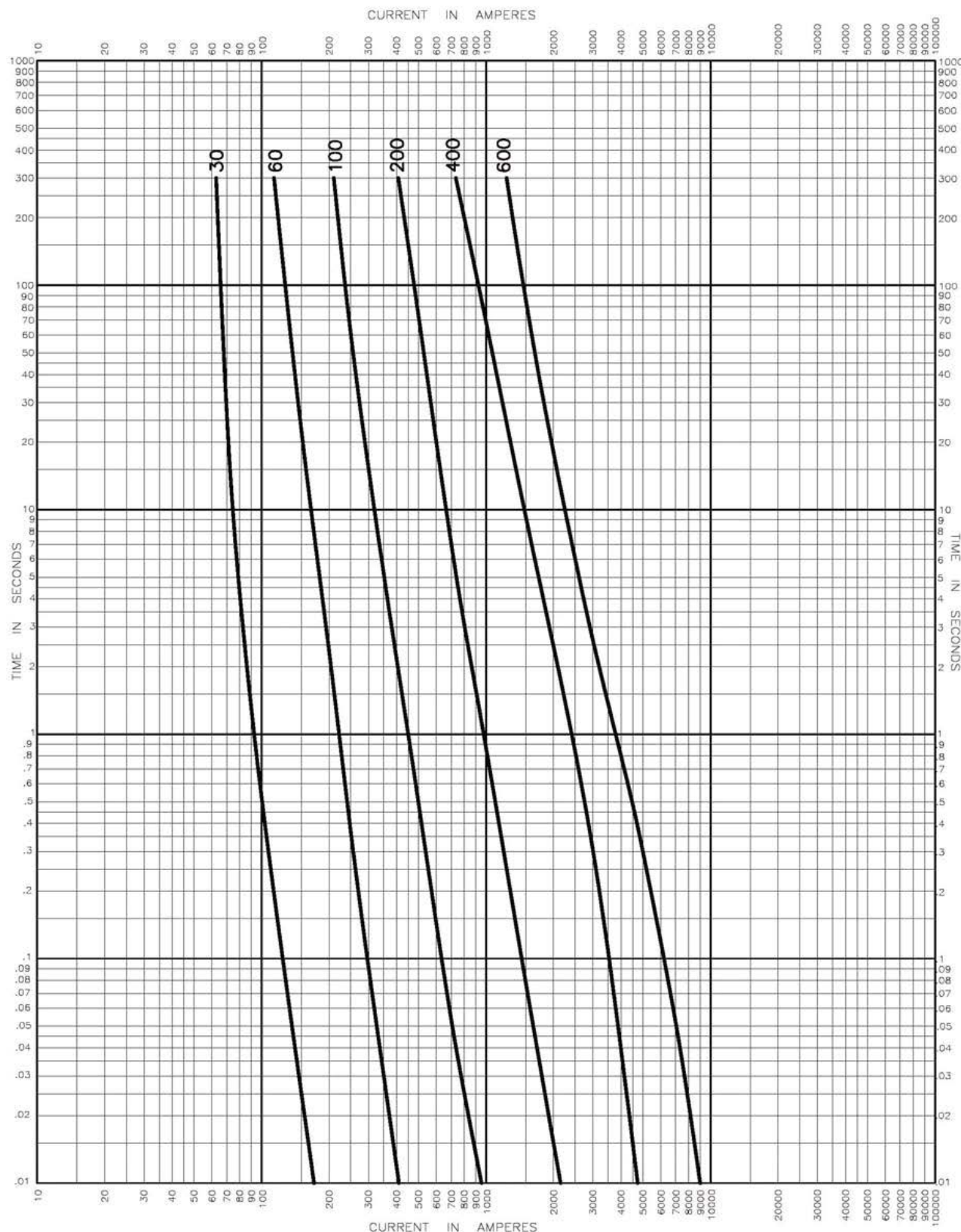
| Range   | A               | B              | C              | D              | E             | F              | H               | J              | K              |
|---------|-----------------|----------------|----------------|----------------|---------------|----------------|-----------------|----------------|----------------|
| 1-30    | 2.25<br>[57.2]  | 0.81<br>[20.6] | -              | -              | -             | -              | -               | -              | -              |
| 35-60   | 2.38<br>[60.5]  | 1.06<br>[26.9] | -              | -              | -             | -              | -               | -              | -              |
| 70-100  | 4.63<br>[117.6] | 1.13<br>[28.7] | 1.00<br>[25.4] | 2.63<br>[66.8] | 0.13<br>[3.3] | 0.75<br>[19.1] | 3.63<br>[92.2]  | 0.43<br>[10.9] | 0.28<br>[7.1]  |
| 110-200 | 5.75<br>[146.1] | 1.63<br>[41.4] | 1.38<br>[35.1] | 3.00<br>[76.2] | 0.19<br>[4.8] | 1.13<br>[28.7] | 4.38<br>[111.3] | 0.43<br>[10.9] | 0.28<br>[7.1]  |
| 225-400 | 7.13<br>[181.1] | 2.11<br>[53.6] | 1.88<br>[47.8] | 3.38<br>[85.9] | 0.25<br>[6.4] | 1.63<br>[41.4] | 5.25<br>[133.4] | 0.58<br>[14.7] | 0.41<br>[10.4] |
| 450-600 | 8.00<br>[203.2] | 2.50<br>[63.5] | 2.13<br>[54.1] | 3.75<br>[95.3] | 0.38<br>[9.7] | 2.00<br>[50.8] | 6.00<br>[152.4] | 0.74<br>[18.8] | 0.53<br>[13.5] |

# Class J High-Speed Drive Fuses

## Time-Current Characteristic Curves



Time-Current Characteristic Curves – Average Melt – JHL Fuses

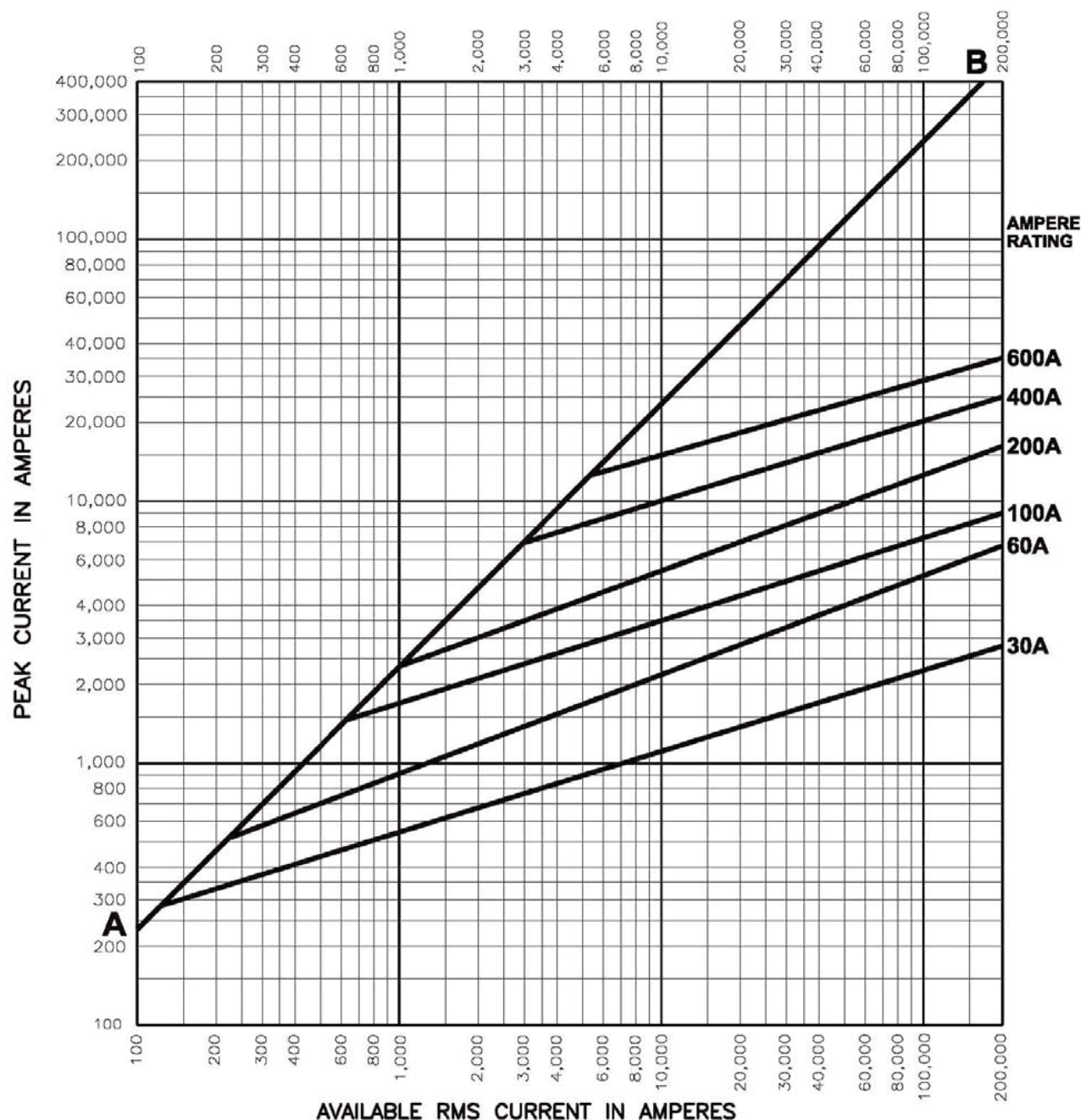


# Class J High-Speed Drive Fuses

## Current Limitation Curves



Current Limitation Curves – JHL Fuses





# Selection Guide

## Line Overview

The Edison family of fuses, fuse blocks and fuse holders is divided into two classes:

1. Current Limiting: Class CC, Class J, Class L, Class RK, Class T
2. General Purpose: Class M Midget and Small Dimension

The fuse selection guide below is a general summary of the

specifications included for each fuse type. This selection guide does not include the many variables that can exist for specific situations such as local codes, unusual temperature, or other operating conditions. When selecting fuses, be sure to comply with any applicable PUBLIC SAFETY standards that apply to Overcurrent Protection Devices (OPD).

| Edison Fuses Selection Guide and General Specifications |                                                                                                                                              |                                                                                                                         |                                                                                                                                           |                   |                                                        |                   |                                                                                                                                                   |        |                                                                                                                  |                                                                                                                           |            |                                             |
|---------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-------------------|--------------------------------------------------------|-------------------|---------------------------------------------------------------------------------------------------------------------------------------------------|--------|------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------|---------------------------------------------|
| Description                                             | Current Limiting                                                                                                                             |                                                                                                                         |                                                                                                                                           |                   |                                                        |                   |                                                                                                                                                   |        |                                                                                                                  |                                                                                                                           |            |                                             |
|                                                         | Class J                                                                                                                                      |                                                                                                                         | Class RK5                                                                                                                                 |                   | Class RK1                                              |                   | Class T                                                                                                                                           |        | Class L                                                                                                          | Class CC                                                                                                                  |            |                                             |
| Fuse Type                                               | Fast-Acting                                                                                                                                  | Time-Delay                                                                                                              | Time-Delay                                                                                                                                |                   |                                                        |                   | Extremely Fast-Acting                                                                                                                             |        | Fast-Acting                                                                                                      | Fast-Acting                                                                                                               | Time-Delay |                                             |
| Part Number                                             | JHL                                                                                                                                          | JDL                                                                                                                     | ECNR                                                                                                                                      | ECSR              | LENRK                                                  | LESRK             | TJN                                                                                                                                               | TJS    | LCU                                                                                                              | HCLR                                                                                                                      | HCTR       | EDCC                                        |
| Voltage Rating                                          | 600VAC<br>450VDC                                                                                                                             | 600VAC<br>300VDC*                                                                                                       | 250VAC<br>125 VDC*<br>(1-200A)<br>250VDC*<br>(201-600A)                                                                                   | 600VAC<br>300VDC* | 250VAC<br>125 VDC*<br>(10-60A)<br>250VDC*<br>(70-600A) | 600VAC<br>300VDC* | 300VAC<br>160 VDC<br>(15-600A)                                                                                                                    | 600VAC | 600V                                                                                                             | 600VAC<br>300VDC<br>(15-20A)                                                                                              | 600VAC     | 600VAC<br>300VDC<br>(0.5-2.25A)<br>(20-30A) |
| Amp Rating                                              | 1 - 600                                                                                                                                      |                                                                                                                         | 1 - 600                                                                                                                                   | 3 - 600           | 10 - 600                                               | 5 - 600           | 1 - 600                                                                                                                                           |        | 601 - 1200                                                                                                       | 0.5 - 30                                                                                                                  | 0.25 - 30  | 0.5 - 30                                    |
| Interrupting Rating                                     | 200,000 RMS Symmetrical Amps                                                                                                                 |                                                                                                                         |                                                                                                                                           |                   |                                                        |                   |                                                                                                                                                   |        |                                                                                                                  |                                                                                                                           |            |                                             |
| Current Limiting                                        | Class J                                                                                                                                      |                                                                                                                         | Class RK5                                                                                                                                 |                   | Class RK1                                              |                   | Class T                                                                                                                                           |        | Class L                                                                                                          | Class CC                                                                                                                  |            |                                             |
| Agency Approvals                                        | UL Listed<br>Class J<br>Guide JDDZ<br>File E162363<br>CSA Certified<br>HRCI-J per<br>C22.2,<br>No. 248.8<br>File 700489<br>RoHS<br>compliant | UL Listed<br>Class J<br>Guide JDDZ<br>File E162363<br>CSA Certified<br>HRCI-J per<br>C22.2, No.<br>248.8<br>File 700489 | UL Listed, Class RK, Guide JDDZ,<br>File E162363<br>CSA Certified HRCI-R per C22.2, No. 248.12,<br>File 700489<br>(LENRK CSA File 053787) |                   |                                                        |                   | UL Listed, Class T,<br>Guide JDDZ, File<br>E162363<br>CSA Certified HRCI-T<br>per C22.2, No. 248.12,<br>File 53787,<br>Class 1422-02 &<br>1422-82 |        | UL Listed,<br>Std. 248-10<br>CSA<br>Certified,<br>HRC-L C22.2<br>No. 248.10,<br>Class 1422-<br>02,<br>File 53787 | UL Listed to 248.4, Class CC,<br>Guide JDDZ, File E162363,<br>CSA certified HRCI-MISC per C22.2<br>No. 248.4, File 700489 |            |                                             |
| Dimensions                                              | See product specification pages.                                                                                                             |                                                                                                                         |                                                                                                                                           |                   |                                                        |                   |                                                                                                                                                   |        |                                                                                                                  | ferrule (in): 13/32, length (in): 1-1/2                                                                                   |            |                                             |

\* Self-certified DC ratings

| Edison Fuses Selection Guide and General Specifications |                                                                           |                 |            |           |                                                                                                                                                                                                                                                                              |                                                  |                                                                                                                                                                                        |                                             |                                                                                                                                                                                                                                        |                                                    |                                                                                                                            |                  |
|---------------------------------------------------------|---------------------------------------------------------------------------|-----------------|------------|-----------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------|------------------|
| Description                                             | General Purpose – Midget                                                  |                 |            |           | General Purpose – Small Dimension Electronic                                                                                                                                                                                                                                 |                                                  |                                                                                                                                                                                        |                                             |                                                                                                                                                                                                                                        |                                                    |                                                                                                                            |                  |
| Fuse Type                                               | Fast-Acting                                                               |                 | Time-Delay |           | Fast-Acting Ceramic                                                                                                                                                                                                                                                          | Fast-Acting Glass                                |                                                                                                                                                                                        | Medium Time-Delay Glass                     | Time-Delay Ceramic                                                                                                                                                                                                                     | Time-Delay Glass                                   | Fast-Acting Glass                                                                                                          | Time-Delay Glass |
| Part Number                                             | MCL                                                                       | MOL             | MEQ        | MEN       | ABC                                                                                                                                                                                                                                                                          | AGC                                              | GMA                                                                                                                                                                                    | GMC                                         | MDA                                                                                                                                                                                                                                    | MDL                                                | S500                                                                                                                       | S506             |
| Voltage Rating                                          | 600 VAC                                                                   | 250 VAC         | 500 VAC    | 250 VAC   | 250 VAC<br>(0.5 to 30A)<br>125VDC:<br>(0.5 to 30A)                                                                                                                                                                                                                           | 250VAC:<br>(0.1 to 10A)<br>32VAC:<br>(15 to 30A) | 250VAC<br>(0.063 - 3A)<br>125VAC<br>(4 - 15A)                                                                                                                                          | 250VAC<br>(0.5 - 3A)<br>125VAC<br>(4 - 10A) | 250VAC<br>125VDC<br>(20A)                                                                                                                                                                                                              | 250VAC:<br>(0.0625 to 8A)<br>32VAC:<br>(10 to 20A) | 250VAC                                                                                                                     | 250VAC           |
| Amp Rating                                              | 0.5 to 50                                                                 | 0.5 to 30       | 0.25 to 30 | 0.5 to 30 | 0.5 to 30                                                                                                                                                                                                                                                                    | 0.10 to 30                                       | 0.063 to 15                                                                                                                                                                            | 0.5 to 10                                   | 0.5 to 20                                                                                                                                                                                                                              | 0.0625 to 20                                       | 0.032 to 10                                                                                                                | 0.25 to 6.3      |
| Interrupting Rating                                     | 100,000 RMS Amps                                                          | 10,000 RMS Amps |            |           | See specifications table on product pages                                                                                                                                                                                                                                    |                                                  |                                                                                                                                                                                        |                                             |                                                                                                                                                                                                                                        |                                                    |                                                                                                                            |                  |
| Current Limiting                                        | N/A                                                                       |                 |            |           | N/A                                                                                                                                                                                                                                                                          |                                                  |                                                                                                                                                                                        |                                             |                                                                                                                                                                                                                                        |                                                    |                                                                                                                            |                  |
| Agency Approvals                                        | UL Listed to 248.14, File E162443<br>CSA Cert. C22.2 Part 59.2, LR 700489 |                 |            |           | UL Listed standard 248-14<br>UL Listed Guide and File nos. (ABC 0.25-20 A): (AGC 1/100-10 A) JDYX and E19180<br>UL Recognition Guide and File nos. (ABC 20-30A): (AGC 11-30) JDYX2 and E19180<br>CSA Certification Record No: 053787 C 000 and Class No: 1422 01 and 1422 30 |                                                  | Designed to UL/CSA 248-14<br>UL Listed, Guide JDYX, File E19180 63mA-6A<br>UL Recognition, Guide JDYX2, File E19180, 7A-15A<br>CSA Certified, File 053787 C_000, 63mA-6A Class 1422-01 |                                             | UL Listed standard 248-14<br>UL Listed Card: MDA 2/10-20A , MDL 1/16-8A<br>(Guide JDYX, File E19180<br>UL Recognized Card: MDA 25-30A MDL 9-30A (Guide JDYX2, File E19180)<br>CSA Certification Card: MDA 2/10-15A (Class No. 1422-01) |                                                    | UL Recognized Guide JDYX2, File E19180<br>Semko Approval<br>VDE Approval<br>BSI Approval<br>IMQ Approval<br>RoHS compliant |                  |
|                                                         |                                                                           |                 |            |           | RoHS                                                                                                                                                                                                                                                                         |                                                  |                                                                                                                                                                                        |                                             |                                                                                                                                                                                                                                        |                                                    |                                                                                                                            |                  |
| Dimensions                                              | ferrule (in): 13/32 length (in): 1-1/2                                    |                 |            |           | 1/4" x 1-1/4",<br>(6.3mm x 32mm)                                                                                                                                                                                                                                             |                                                  | 0.197" x 0.788"<br>(5mm x 20mm)                                                                                                                                                        |                                             | 1/4" x 1-1/4",<br>(6.3mm x 32mm)                                                                                                                                                                                                       |                                                    | 0.197" x 0.788"<br>(5mm x 20mm)                                                                                            |                  |

# Modular Ferrule Fuse Blocks for Class J Fuses



## Description

JM Series for use with Class J fuses JHL & JDL

## Mounting

35mm DIN rail or panel mount

## Specifications

### Materials:

Base – Thermoplastic

Terminals – Tin-plated copper brass

Covers – Thermoplastic

Screws and pressure plates – Zinc-plated steel

**SCCR:** 200kA

### Flammability rating:

Blocks – UL 94V0, self-extinguishing

Covers – UL 94HB, self-extinguishing

### Operating and storage temp range:

Blocks – -40° to 120°C [-40° to 248°F]

Covers – indicating -20° to 90°C [-4° to 194°F]  
non-indicating -40° to 120°C [-40° to 248°F]

### Wire:

Cu – 75°/90°C [167°/194°F]

Al – 75°C [167°F]

Ring or Fork terminal to fit a #10-32 screw

## Agency Approvals

### Fuse Blocks

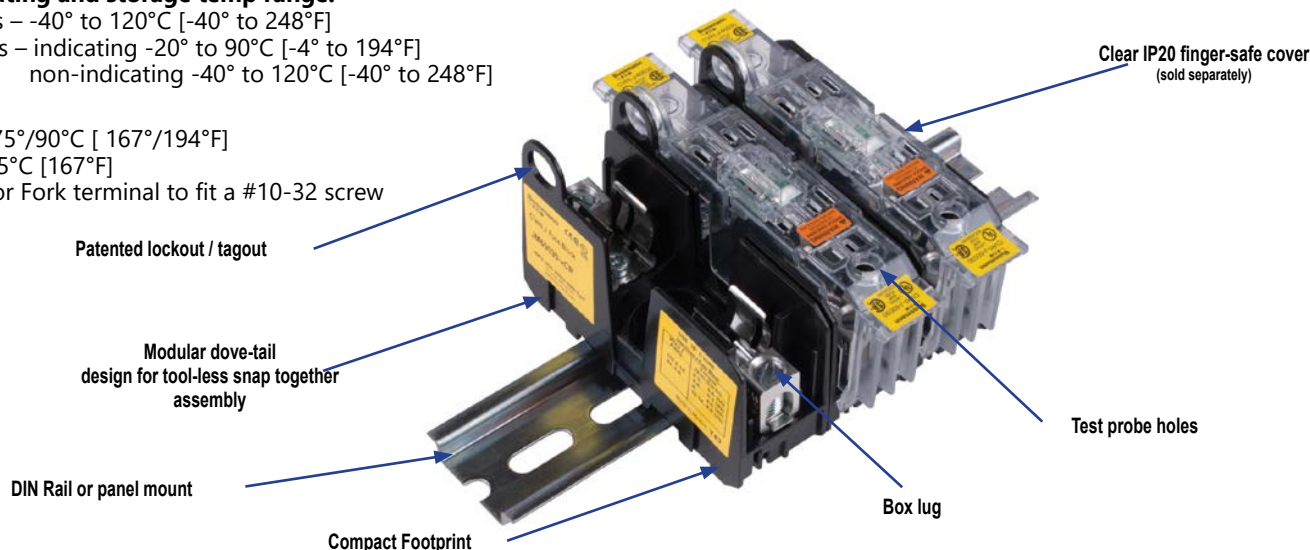
- UL® Listed E14853 - IZLT
- CSA® Certified 47235-6225-01
- CE
- RoHS Compliant
- Conflict mineral free
- REACH Compliant

### Covers

- Covers are included in the overall UL Listing/Recognition and CSA Certification
- IP20 finger-safe
- RoHS compliant
- REACH Compliant



To obtain the most current agency approval information, see the Agency Approval Checklist section on the specific part number's web page.



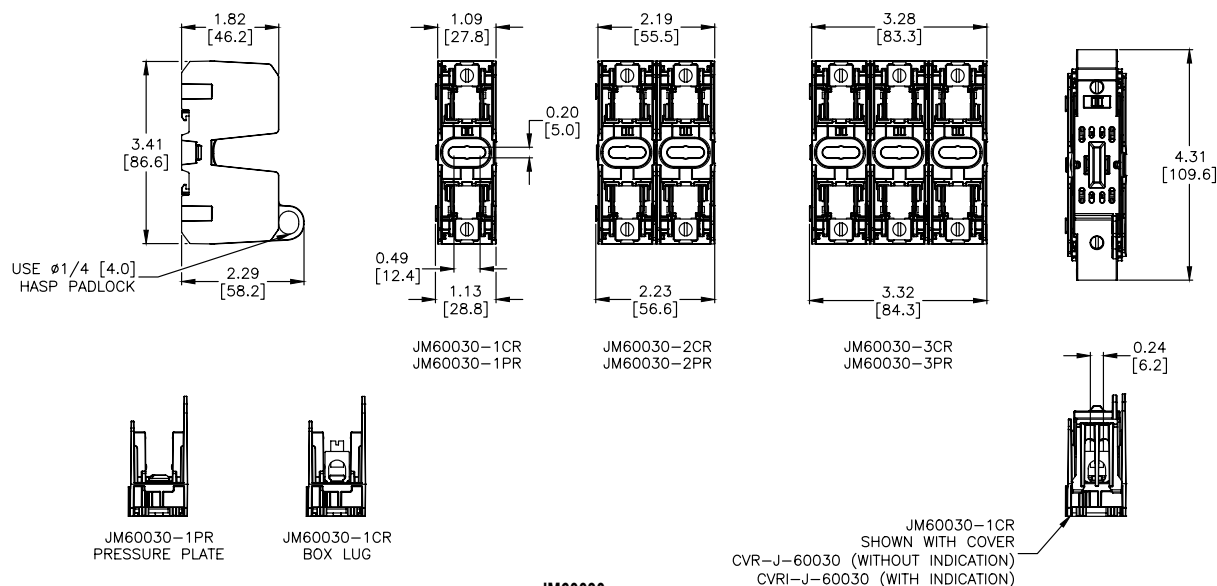
| Modular Ferrule Fuse Blocks for Class J Fuses |                             |            |          |               |      |       |                               |                          |                       |                |                                        |                                         |            |
|-----------------------------------------------|-----------------------------|------------|----------|---------------|------|-------|-------------------------------|--------------------------|-----------------------|----------------|----------------------------------------|-----------------------------------------|------------|
| Type                                          | Part Number                 | Pc/<br>pkg | Price    | Volts         | Amps | Poles | Wire Range                    |                          | Torque<br>lb-in [N·m] | Wt.<br>lb [kg] | Covers (sold separately)               |                                         |            |
|                                               |                             |            |          |               |      |       | solid and<br>stranded         | fine<br>stranded<br>(Cu) |                       |                | w/o<br>Indication                      | w/<br>Indication <sup>1</sup>           | Pc/<br>pkg |
| Box lug                                       | <a href="#">JM60030-1CR</a> | 1          | \$34.00  | 600V<br>AC/DC | 30   | 1     | 14-2 AWG (Cu)<br>8-2 AWG (Al) | 3-2 AWG                  | 50 [5.6]              | 0.15 [0.08]    | <a href="#">CVR-J-60030</a><br>\$10.00 | <a href="#">CVRI-J-60030</a><br>\$13.00 | 1          |
|                                               | <a href="#">JM60030-2CR</a> | 1          | \$71.00  |               |      | 2     |                               | 6-4 AWG                  | 45 [5.1]              | 0.25 [0.12]    |                                        |                                         |            |
|                                               | <a href="#">JM60030-3CR</a> | 1          | \$103.00 |               |      | 3     |                               | 8AWG                     | 40 [4.5]              | 0.40 [0.18]    |                                        |                                         |            |
| Pressure Plate                                | <a href="#">JM60030-1PR</a> | 1          | \$31.00  |               |      | 1     | 18-10 AWG (Cu)                | 14-10 AWG                | 35 [4.0]              | 0.40 [0.18]    |                                        |                                         |            |
|                                               | <a href="#">JM60030-2PR</a> | 1          | \$61.00  |               |      | 2     |                               | 18-10 AWG                | 20 [2.3]              | 0.15 [0.08]    |                                        |                                         |            |
|                                               | <a href="#">JM60030-3PR</a> | 1          | \$93.00  |               |      | 3     |                               |                          |                       | 0.25 [0.12]    |                                        |                                         |            |
| Box lug                                       | <a href="#">JM60060-1CR</a> | 1          | \$41.00  |               | 60   | 1     | 14-2 AWG (Cu)<br>8-2 AWG (Al) | 3-2 AWG                  | 50 [5.6]              | 0.20 [0.10]    | <a href="#">CVR-J-60060</a><br>\$12.00 | <a href="#">CVRI-J-60060</a><br>\$13.50 | 1          |
|                                               | <a href="#">JM60060-2CR</a> | 1          | \$82.00  |               |      | 2     |                               | 6-4 AWG                  | 45 [5.1]              | 0.35 [0.16]    |                                        |                                         |            |
|                                               | <a href="#">JM60060-3CR</a> | 1          | \$124.00 |               |      | 3     |                               | 8AWG                     | 40 [4.5]              | 0.55 [0.26]    |                                        |                                         |            |

<sup>1</sup> Open fuse indication requires 90V minimum and closed circuit to operate.

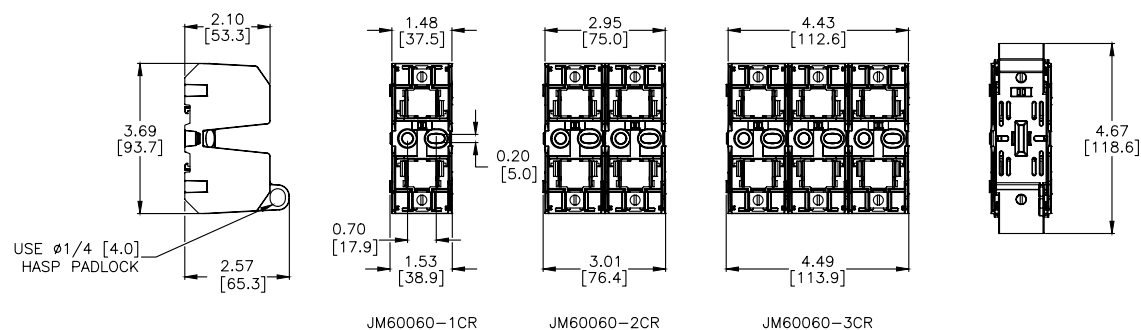
# Modular Ferrule Fuse Blocks for Class J Fuses

## Dimensions

in [mm]



JM60030



JM60060

Please see our website [www.AutomationDirect.com](http://www.AutomationDirect.com) for complete engineering drawings. Dimensions are approximate. Not for construction purposes.

# Modular Fuse Holders for Class J Fuses



CH30J1



CH30J2I



CH30J3

## Description

- Choice of LED indicator or non-indicating fuse holder
- Comes in standard 1-, 2- and 3-Pole ganged assemblies where all fuses are extracted simultaneously
- Meets requirements of IEC 60529 for IP-20 finger safe rating
- 35mm DIN rail and chassis (6-32 UNC Pan Head recommended) mounting features
- Fuseholder wire ports dual wire rated from 18 to 3 AWG

## Specifications

**Construction:** Thermoplastic, with tin-plated copper clip  
**UL Flammability:** 94V-0

**Voltage Ratings:** 600 Volts AC/DC (or less)

**Ampere Ratings:** 1 - 60 Amps

**Interrupting Rating:** 200,000 RMS Symmetrical Amps

**Minimum Indicating Voltage (neon lamp):** 90 Volts

**Nominal Operating Current (neon lamp):** 34 mA (460 VAC)

## Agency Approvals

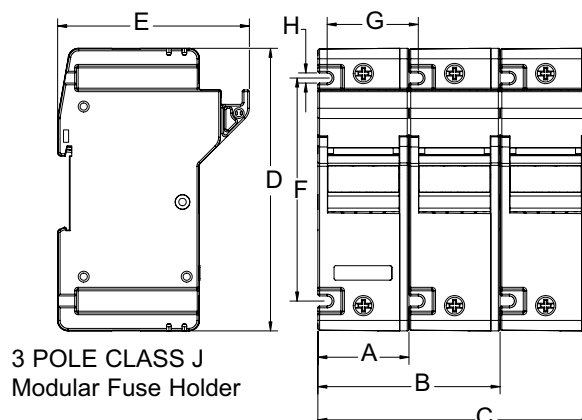
- Listed UL 512, Guide IZLT, File E14853
- CSA Certified per C22.2 Nos. 39 Class 6225-01, File LR47235
- CE compliance for the European Union Low Voltage Directive

### CH Series Modular Fuse Holders for Class J Fuses

| Amp Rating | Part Number | Amps      | Type           | Poles | Maximum Wire Size                          | Pcs/Pkg | Weight (lbs.) | Price    |
|------------|-------------|-----------|----------------|-------|--------------------------------------------|---------|---------------|----------|
| 30A        | CH30J1      | 0.5 to 30 | Easy ID window | 1     | 18 -1 AWG Single<br>18 -3 AWG Dual<br>75°C | 6       | 2.8           | \$247.00 |
|            | CH30J2      |           | Easy ID window | 2     |                                            | 3       |               | \$344.00 |
|            | CH30J3      |           | Easy ID window | 3     |                                            | 2       |               | \$340.00 |
|            | CH30J1I     |           | Neon indicator | 1     |                                            | 6       |               | \$286.00 |
|            | CH30J2I     |           | Neon indicator | 2     |                                            | 3       |               | \$392.00 |
|            | CH30J3I     |           | Neon indicator | 3     |                                            | 2       |               | \$373.00 |
|            |             |           |                |       |                                            | 6       | 3.4           | \$330.00 |
| 60A        | CH60J1      | 31 to 60  | Easy ID window | 1     |                                            | 3       |               | \$386.00 |
|            | CH60J2      |           | Easy ID window | 2     |                                            | 2       |               | \$391.00 |
|            | CH60J3      |           | Easy ID window | 3     |                                            | 6       |               | \$369.00 |
|            | CH60J1I     |           | Neon indicator | 1     |                                            | 3       |               | \$459.00 |
|            | CH60J2I     |           | Neon indicator | 2     |                                            | 2       |               | \$420.00 |
|            | CH60J3I     |           | Neon indicator | 3     |                                            |         |               |          |

## Dimensions

| Dimension | CH30J in (mm) | CH60J in (mm) |
|-----------|---------------|---------------|
| A         | 1.28 (32.5)   | 1.58 (40.0)   |
| B         | 2.56 (65.0)   | 3.16 (80.0)   |
| C         | 3.84 (97.5)   | 4.72 (120.0)  |
| D         | 4.59 (116.6)  | 4.88 (124.0)  |
| E         | 2.83 (71.8)   | 3.31 (84.1)   |
| F         | 3.56 (90.4)   | 3.85 (97.9)   |
| G         | 1.28 (32.5)   | 1.58 (40.0)   |
| H         | 0.18 (4.44)   | 0.18 (4.44)   |



# Accessories

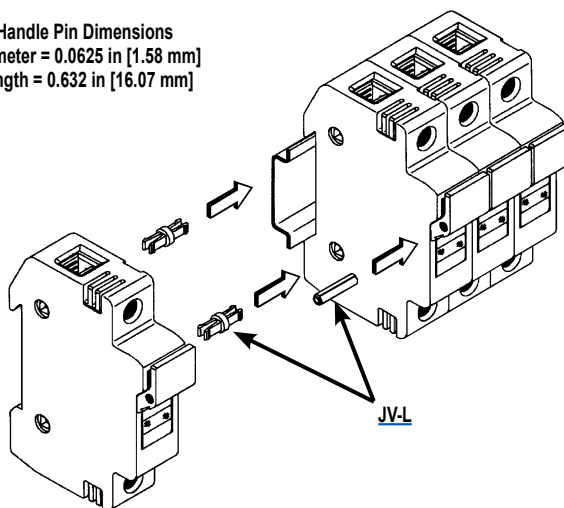
**FP-2****JV-L**

| Accessories                             |                                                                                                                                                                                           |         |         |
|-----------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------|---------|
| Part Number                             | Description                                                                                                                                                                               | Pcs/Pkg | Price   |
| <b>FP-2</b>                             | Fuse puller for fuse dia. 13/32" - 13/16". Fuse type: 0-60A, 250V; 0-30A, 600V                                                                                                            | 1       | \$34.50 |
| <b>JV-L*</b><br>(Not Field Installable) | Multi-pole connection kit to connect new design multiple Class CC and Midget Class fuse holders together. Kit consists of 6 connectors and 3 handle pins to connect up to 4 fuse holders. |         | \$13.00 |

Note: Will not work with retired design fuse holders shipped before November 1, 2009.

\*Roll pin punch or installation tool is required to install handle pins (Tool not sold by [AutomationDirect.com](http://AutomationDirect.com)).

Handle Pin Dimensions  
Diameter = 0.0625 in [1.58 mm]  
Length = 0.632 in [16.07 mm]



# Cross Reference Guide



## CROSS REFERENCE GUIDE By manufacturers type reference or series number. Ampere ratings must be added for ordering purposes.

| FUSE TYPE                                   |                         | VOLT    | EDISON                    | BRUSH/<br>DORMAN | BUSSMANN  | MERSEN /<br>GOULD | GEC/CEFCO | LITTELFUSE |
|---------------------------------------------|-------------------------|---------|---------------------------|------------------|-----------|-------------------|-----------|------------|
| UL CLASS CURRENT LIMITING FUSES (CSA CLASS) |                         |         |                           |                  |           |                   |           |            |
| CC (HRCI-CC)                                | Time-Delay              | 600     | EDCC                      | –                | LP-CC     | ATDR              | –         | CCMR       |
|                                             | Time-Delay              | 600     | HCTR                      | –                | FNQ-R     | ATQR              | –         | KLDR       |
|                                             | Fast-Acting             | 600     | HCLR                      | HCLR             | KTK-R     | ATMR              | CTK-R     | KLKR       |
| RK1                                         | Time-Delay Dual Element | 250     | LENRK                     | –                | LPN-RK-SP | A2DR              | –         | LLNRK      |
|                                             |                         | 600     | LESRK                     | –                | LPS-RK-SP | A6DR              | –         | LLSRK      |
| RK5                                         | Time-Delay Dual Element | 250     | ECNR                      | –                | FRN-R     | TR                | –         | FLNR       |
|                                             |                         | 600     | ECSR                      | –                | FRS-R     | TRS               | –         | FLSR       |
| J                                           | Time-Delay Dual Element | 600     | JDL                       | –                | LPJ       | AJT               | –         | JTD        |
|                                             | High-Speed AC Drive     | 600     | JHL                       | –                | DFJ       | HSJ               | –         | –          |
| T                                           | Extremely Fast-Acting   | 300     | TJN                       | –                | JJN       | A3T               | –         | JLLN       |
|                                             |                         | 600     | TJS                       | –                | JJS       | A6T               | –         | JLLS       |
| UL CLASS GENERAL PURPOSE FUSES              |                         |         |                           |                  |           |                   |           |            |
| Midget                                      | Fast-Acting             | 600     | MCL                       | MCL              | KTK       | ATM               | CTK       | KLK        |
|                                             |                         | 250     | MOL                       | MOL              | BAF/BAN   | OTM               | –         | BLF        |
|                                             | Time-Delay              | 500     | MEQ                       | MEQ              | FNQ       | ATQ               | –         | FLQ        |
|                                             |                         | 250     | MEN                       | MEN              | FNM       | TRM               | –         | FLM        |
| 1/4"x 1-1/4" Ceramic                        | Fast-Acting             | 250/125 | ABC                       | ABC              | ABC       | GAB               | –         | 314        |
| 1/4"x 1-1/4" Glass                          |                         | 250/32  | AGC                       | AGC              | AGC       | GGC               | –         | 312        |
| 1/4"x 1-1/4" Ceramic                        | Time-Delay              | 250     | MDA                       | MDA              | MDA       | –                 | –         | 326        |
| 1/4"x 1-1/4" Glass                          |                         | 250/32  | MDL                       | MDL              | MDL       | GDL               | –         | 313        |
| 5x20 mm Glass                               | Fast-Acting             | 250/125 | GMA                       | GMA              | GMA       | GGM               | –         | 235        |
|                                             | Medium Time-Delay       | 250/125 | GMC                       | GMC              | GMC       | GSC               | –         | –          |
| 5x20 mm Glass                               | Fast-Acting             | 250     | S500                      | BDB              | GDB       | GSB               | –         | 217        |
|                                             | Time-Delay              | 250     | S506                      | BDC              | GDC       | GDG               | –         | 218        |
| Fuse Puller                                 |                         |         |                           |                  |           |                   |           |            |
| Fuse Puller FP-2                            |                         |         | old - 38072<br>new - FP-2 | –                | FP-2      | –                 | –         | –          |