


Control Circuit and Load Protection

Product Overview

| Bulletin | 1489-A | | 1489-D | | 1492-FB | | | 140F | | |
|---|--|---|---|---------------------------|---|-------------------|-------------------|---|--|----------------------------|
| Type | 480Y/ 277V AC | 240V AC | 1 Pole: 125V DC | 2 Pole: 250V DC | For Class CC Fuse | For Class J Fuse | | For Midget Fuse | For Class CC Fuse or Midget Fuse | For IEC 10 x 38 mm Fuse |
| Features | <ul style="list-style-type: none"> • True IP2X finger-safe design (front) • 10 000 A interrupt • A positively trip-free mechanism (breaker operation cannot be defeated by holding the handle in the ON position) • Superior shock and vibration resistance capabilities • Mounts on DIN Rail • IEC 60947-2 - 0.5...40 A @ 240, 415V AC • - 15 000 A interrupting • Field-mountable options • Optional terminal for ring lugs | <ul style="list-style-type: none"> • True IP2X finger-safe design (front) • A positively trip-free mechanism (breaker operation cannot be defeated by holding the handle in the ON position) • Superior shock and vibration resistance capabilities • Mounts on DIN Rail • IEC 60947-2 • Field-mountable options • Optional terminal for ring lugs | <ul style="list-style-type: none"> • EN/IEC 60529 Front Finger Protection — Dead front construction • Handle isolates the fuse from line power when it is opened for fuse insertion or removal • Compact size requiring less panel space than open style fuse folders • Optional blown fuse indicators - allow for easy troubleshooting of electrical circuits • Type M holder - accepts 0...30 A midget fuses (1-1/2 in. x 13/32 in.) • Type C holder - accepts 0...30 A Class CC fuses • Type J 30 & 60 A holders - accepts Class J fuses • Silver-plated fuse clips • Mounts on DIN Rail, marker-ready and increased heat dissipation | | <ul style="list-style-type: none"> • Lockable in the open position • Compatible with Bulletin 140M accessories • Compact busbar and connectors for Bulletin 100-C and 100-K contactors • 1 N.O./1 N.C auxiliary contact— late make N.O., early break N.C. | | | | | |
| Certifications | UL 489 Listed (CSA C22.2 No. 5), UL File Number E197878 VDE (IEC 60 947-2) | | | | UL 512, CSA C22.2 No. 39, CE, EN/IEC 60947-3 | | | UR, CSA | UL 512, CSA C22.2 No. 39, CE, EN/IEC 60947-3 | |
| Maximum Voltage Rating | 480Y/277V AC | | 480Y/ 277V AC | UL 250V DC IEC 500V DC | 600V AC/DC Type M, IEC - 690V AC | | | 600V AC | 690V AC | |
| Shock | 25 G half sine wave for 11 ms (three axes) | | | | | | | | | |
| Tripping Characteristic Reference Temperature | UL/CSA: 104 ° F (40 °C) IEC: 86 ° F (30 °C) | | | | NA | | | NA | | |
| Tripping Characteristic | C Curve: 5...10 D Curve: 10...20 | | C Curve: 5...10 In | | NA | | | NA | | |
| Vibration | 100...500 Hz for 1 hour Amplitude — 10...57 Hz; 0.030 inches peak to peak; 57...500 Hz; 5 G peak | | | | 5 G peak or 0.030 in. peak-to-peak displacement for 2 hours in each perpendicular direction. Vibration sweep 10 to 2000 to 10 Hz (15 minutes long) | | | — | | |
| Operating Temperature | -13...+140 °F (-25...+55 °C), non-condensing | | | | -4...+130 °F (-20...+55 °C) | | | -4...+130 °F (-20...+55 °C) | | |
| Housing Material | Nylon | | | | Nylon | | | — | | |
| Working Voltage | — | | — | | 110...600V AC/DC or 12...72V AC/DC | 110...600V AC/DC | | 110...600V AC/DC or 12...72V AC/DC | — | |
| Leakage Current with Indicator LED | — | | | | 2.0 mA | | | — | | |
| Wire Size | 0.8...13 mm ² /#18...6 AWG Cu | | | | #16...4 AWG Cu | #14...1 AWG Cu | #10...1 AWG Cu | #16...4 AWG Cu | #16...10 AWG Cu (1...4 mm ²) | |
| Interrupt Rating | UL/CSA: up to 14 kA IEC: up to 15 kA | | 10 kA | | 200 kA | | | 50 kA | 200 kA - Class CC 100 kA - Midget | |
| Product Selection | Page 7-15 | | Page 7-31 | | Page 7-39 | | | Page 7-41 | | |

7



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|  | <p>Bulletin 1492-FB — DIN Rail Mounting Fuse Holders</p> <ul style="list-style-type: none"> • Compact size requiring less panel space than open-style fuse holders • Handle isolates the fuse from power when installing or removing fuse • IP2 — Front-finger protection per IEC/EN 60529 • Optional blown fuse indicators — allow easy troubleshooting of electrical circuits • Easy insertion/removal of fuses, no special tools required • Mounts on standard 35 mm DIN Rail • Marker-ready • Terminals shipped in open position and are ready for wiring | <p>Table of Contents</p> <p>Product Selection this page</p> <p>Specifications..... 7-40</p> <p>Approximate Dimensions..... 7-40</p> <p>Standards Compliance</p> <p>UL 512 CSA 22.2 No. 39 EN/IEC 60947-3 EN/IEC 60269-2-1</p> <p>Certifications</p> <p>UL Listed E34648 UR Recognized Component CSA Certified CE Marked</p> |
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Bulletin 1492-FB fuse holders provide a safe and convenient means for installation of class CC, J, and midget fuses. The class CC fuse holder is designed to reject a midget fuse or international 10 x 38 mm fuse. The class J fuse holder will reject all fuses other than a class J fuse.

The class CC and J holders are UL Listed and CSA Certified for branch circuit protection. Class CC and J fuses are excellent for wire protection, small motor loads, and group protection of small motor loads. The midget holders are UL Recognized and CSA Certified when supplementary (1-1/2 in. x 13/32 in.) fuses are applied. The midget fuse holder is also CE Marked for 10 x 38 mm IEC midget fuses.

The 1492-FB fuse holder family is designed for use in many OEM applications, such as power supplies, equipment protection, primary and secondary control transformers, solenoids, lighting and heater loads, and drives.

Product Selection

| Description | For Class CC Fuse | For Class J Fuse | | For Midget Fuse |
|---|-----------------------|----------------------|----------------------|-----------------------|
| | 30 A* | 30 A | 60 A | 30 A |
| | Cat. No. | Cat. No. | Cat. No. | Cat. No. |
| One-Pole | | | | |
| 1-Pole Fuse Block | 1492-FB1C30 | 1492-FB1J30 | 1492-FB1J60 | 1492-FB1M30 |
| 1-Pole Fuse Block with Indication, 110...600V | 1492-FB1C30-L | 1492-FB1J30-L | 1492-FB1J60-L | 1492-FB1M30-L |
| 1-Pole Fuse Block with Indication, 12...72V | 1492-FB1C30-D1 | — | — | 1492-FB1M30-D1 |
| Pieces per Carton | 6 | | | |
| Two-Pole | | | | |
| 2-Pole Fuse Block | 1492-FB2C30 | 1492-FB2J30 | 1492-FB2J60 | 1492-FB2M30 |
| 2-Pole Fuse Block with Indication | 1492-FB2C30-L | 1492-FB2J30-L | 1492-FB2J60-L | 1492-FB2M30-L |
| Pieces per Carton | 3 | | | |
| Three-Pole | | | | |
| 3-Pole Fuse Block | 1492-FB3C30 | 1492-FB3J30 | 1492-FB3J60 | 1492-FB3M30 |
| 3-Pole Fuse Block with Indication | 1492-FB3C30-L | 1492-FB3J30-L | 1492-FB3J60-L | 1492-FB3M30-L |
| Pieces per Carton | 2 | | | |

* All major fuse brands and current ranges have been evaluated for this fuse holder. Due to the heat they generate, the following fuses must be derated:
 Ferraz Shamut ATQR 1.25 I = 0.42 A max.
 Ferraz Shamut ATQR 1.40 I = 0.47 A max.



Fuse Holders

Accessories/Specifications/Approximate Dimensions

Accessories

| Description | Pkg. Quantity | Cat. No. |
|---|---------------|------------|
| Fuseholder Identification Slide-in Markers* The following are blank cards. Squares slip into molded slot. | 5 | 1492-MC5X5 |
| | | 1492-MC6X5 |

* Refer to terminal block marking systems on page 12-90.

Specifications

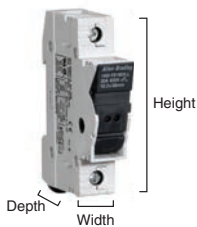
| Product Type (n = number of poles) | CC | M | J30 | J60 |
|--|--|--|--|--|
| | | 1492-FBnC30 "B" 1492-FB1C30-D1 "B" 1492-FBnC30-L "B" | 1492-FBnM30 "B" 1492-FB1M30-D1 "B" 1492-FBnM30-L "B" | 1492-FBnJ30 "B" 1492-FBnJ30-L "B" |
| For Fuse Type: | Class CC | Midget 13/32" x 1-1/2" (10 x 38 mm) | Class J | |
| Approvals | UL, CSA, CE | UR, CSA, CE | UL, CSA, CE | |
| Maximum Voltage | 600V | 600V 690V(IEC) | 600V | |
| Maximum Current | 30 A | 30 A 32 A (IEC) | 30 A | 60 A |
| Maximum Current Withstand (UL/CSA) | 200 kA sym | Fuse dependant 50 kA max UL | 200 kA sym | |
| Operating Temperature Range | -4...+130 °F -20...+55 °C | | | |
| Conductor Material | Copper, stranded | | | |
| Conductor Strip Length | 0.43 in. (11 mm) | | 0.79 in. (20 mm) | |
| Conductor Range 1 Wire per Terminal: | #18...4 AWG (0.75...25 mm ²) | | #18...1 AWG (0.75...50 mm ²) | #14...1 AWG (2.5...50 mm ²) |
| Conductor Range 2 Wires* per Terminal: | #18...8 AWG (0.75...10 mm ²) | | #18...6 AWG (0.75...16 mm ²) | #14...6 AWG (2.5...16 mm ²) |
| Terminal Tightening Torque | #18...8 AWG: 22 lb•in #6...4 AWG: 26 lb•in 0.75...25 mm ² : 2.5 N•m | | 35 lb•in (4 N•m) | |

* Both wires must be same size

7

Approximate Dimensions

Dimensions are in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.



| Dimension | | For Class CC Fuse | For Class J Fuse | | For Midget Fuse |
|-----------|------------|-------------------|-------------------|-------------------|------------------|
| | | 30 A | 30 A | 60 A | 30 A |
| Height | | 3.19 in. (81 mm) | 4.65 in. (118 mm) | 4.65 in. (118 mm) | 3.19 in. (81 mm) |
| Depth | | 2.51 in. (64 mm) | 2.76 in. (70 mm) | 3.23 in. (82 mm) | 2.51 in. (64 mm) |
| Width | One-Pole | 0.71 in. (18 mm) | 1.41 in. (36 mm) | 1.57 in. (40 mm) | 0.71 in. (18 mm) |
| | Two-Pole | 1.41 in. (36 mm) | 2.83 in. (72 mm) | 3.15 in. (80 mm) | 1.41 in. (36 mm) |
| | Three-Pole | 2.13 in. (54 mm) | 4.25 in. (108 mm) | 4.72 in. (120 mm) | 2.13 in. (54 mm) |