



# Disconnect Switches and Fuse Blocks

Bulletins 1491, 1494F, 1494G, 1494H, 1494U

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## Summary of Changes

This publication contains the following new or updated information.  
This list includes substantive updates only and is not intended to reflect all changes.

| <b>Topic</b>   | <b>Page</b> |
|--|-------------|
| Updated Replacement Parts table  | 12          |
| Added new figure for Switch with Cable Bracket 400 A                     | 23          |
| Removed Protective Fuse Cover, Accessories and replaced with Fuse Covers | 40          |
| Updated 1494G Disconnect Switches Specifications table                   | 41          |

## Disconnect Switches – Overview

The Allen-Bradley® 1494G and 1494H Industrial Safety Disconnect Switches are designed for industrial and heavy commercial applications, and for hazardous locations. 1494U universal visible-blade flange disconnect switch provides you with the extra level of visual ON or OFF indication of a knife-blade disconnect design. Disconnect switches offer ratings from 30 A to 600 A, fusible or non-fusible, incorporate a Flange style handle, and carry certifications for UL, CSA, CE, and CCC and UKCA.



| Parameter  | 1494G Heavy Duty Industrial | 1494G Hazardous Locations                                  | 1494H Heavy Duty Industrial | 1494F Flanged-Mounted                 | 1494U Universal                       |
|--|-----------------------------|--|-----------------------------|---------------------------------------|---------------------------------------|
| Description  | Industrial Duty             | Hazardous Locations  | Heavy Duty                  | Industrial Duty                       | Industrial Duty                       |
| Panel Mounting Location                            | Flange-mounted handle       | Side-mounted handle  | Side-mounted handle         | Fixed-Depth Flange-Mounted Disconnect | Flange-mounted handle                 |
| Switch Ratings                                     | 30...600 A at 600V AC       | 30, 60, 100 A  | 30...200 A at 600V AC       | 30, 60, 100 A                         | 30...600 A at 600V AC and 250/600V DC |
| Fuse Versions                                      | Fusible and non-fusible     | Non-fusible  | Fusible and non-fusible     | Fusible and non-fusible               | Fusible and non-fusible               |
| Fuse Accommodations                                | Class J, R, and H           | —  | Class J, R, and H           | Class J, R, and H                     | Class J, R, and H                     |
| Enclosure Types                                    | Type 3R/4/12 and 4X         | Type 3R, 7, and 9 bolted enclosure with breather and drain | Type 1, 3R, and 12          | Type 1, 3R, and 12                    | For use with Type 3R/4/12 and 4X      |
| Safety Feature – Visible Blade Construction        | ✓                           | ✓  | ✓                           | ✓                                     | ✓                                     |
| Handle Lockable position <sup>(1)</sup>            | Off and On                  | Off  | Off                         | Off and On                            | Off and On                            |
| 200 kA A.I.C. With Proper Fusing                   | ✓                           |  | ✓                           | ✓                                     | ✓                                     |
| NFPA 79 Compliant – Handle Always Linked to Switch | ✓                           | ✓  | ✓                           | ✓                                     | ✓                                     |
| Product Selection                                  | <a href="#">page 31</a>     | <a href="#">page 45</a>                                    | <a href="#">page 47</a>     | <a href="#">page 26</a>               | <a href="#">page 6</a>                |

(1) locking in the On position will require field modification by the end user of the handle.

### Certifications and Standards of Compliance

| Parameter      | 1494G Heavy Duty Industrial                     | 1494G Hazardous Locations                       | 1494H Heavy Duty Industrial   | 1494F Flanged-Mounted   | 1494U Universal  |
|----------------|---|---|---|---|--|
| Certifications | cULus Listed – File No. E227497; Guide No. WIAX | cULus Listed – File No. E239523; Guide No. WPRP | CSA Certified – File No. LR1234<br>UL Listed – File No. E227497; Guide No. WIAX | CSA Certified – File No. LR1234<br>UL Listed – File No. E47426; Guide No. WIITY | CSA Certified – File No. LR1234<br>UL Listed – File No. E47428; Guide No. WHTY |
|                | RoHS, CCC                                       | RoHS  | RoHS  | CCC, CE, RoHS, UKCA   | RoHS, CE, CCC, UKCA  |
|                | CSA C22.2 No. 4                                 |   |   |   | CSA C22.2 No. 4<br>UL 98<br>—  |
| UL 98          |   |   |   |   |  |
| UL 508         |   |   |   |   |  |

**Notes:**

# Bulletin 1494U Universal Visible Blade Flange Disconnect Switches

## Overview

The Allen-Bradley® 1494U universal visible-blade flange disconnect switch provides you with the extra level of visual ON or OFF indication of a knife-blade disconnect design. This disconnect switch addresses needs across industries that have a global customer base by providing UL, CSA, CE, CCC, and UKCA ratings in a single product line. You can choose from fusible or non-fusible versions. These disconnect switches can be operated with either rods or cables.

Bulletin 1494U offers up to 30% space savings over the previous Bulletin 1494F product. It is rated for installation in flange enclosure offerings, and features a universal mechanism for both flange cable or rod applications, simplifying the selection. The fused switch offers a choice of J or R class fuse clips, and the IP20 fuse cover offers line-and-load-size finger protection. The flexible cable operator is available in 76.2...152.4 mm (3...6 in.) length and offer greater freedom to locate the switch within the enclosure.

Bulletin 1494U is designed and tested to North American and international standards.



## Catalog Number Explanation - Factory Assembled Kits

Examples that are given in this section are for reference purposes. This basic explanation is not to be used for product selection; not all combinations produce a valid catalog number. The examples that are listed represent factory-assembled kits.

1494U - R - 30 - C3 - LA - M - PC  
a                    b                    c                    d                    d                    d                    d

| a               |   |
|-----------------|---|
| Bulletin Number |   |
| Code            | Description                               |
| 1494U           | Disconnect switch, rod, or cable operated |

| b                     |              |
|-----------------------|--------------|
| Fusing <sup>(1)</sup> |              |
| Code                  | Description  |
| N                     | Non-fusible  |
| J                     | Class J fuse |
| R                     | Class R fuse |

| c             |             |
|---------------|-------------|
| Switch Rating |             |
| Code          | Description |
| 30            | 30 A        |
| 60            | 60 A        |
| 100           | 100 A       |
| 200           | 200 A       |
| 400           | 400 A       |
| 600           | 600 A       |

| d                      |  |
|------------------------|--|
| Options <sup>(2)</sup> |  |
| Code                   | Description                                    |
| CR                     | Threaded rod                                   |
| C3                     | Cable length: 3 ft (0.91 m)                    |
| C4                     | Cable length: 4 ft (1.2 m)                     |
| C5                     | Cable length: 5 ft (1.5 m)                     |
| C6                     | Cable length: 6 ft (1.8 m)                     |
| HJ <sup>(1)</sup>      | J 200/400A fuse clips                          |
| LA <sup>(3)</sup>      | Lugs – Aluminum (Al) or Copper (Cu) wire       |
| LC <sup>(3)</sup>      | Lugs – Cu wire                                 |
| M                      | Painted metal handle                           |
| N                      | Non-metallic handle                            |
| NC                     | (1) N.C. auxiliary contact – 10 A              |
| NO                     | (1) N.O. auxiliary contact – 10 A              |
| NCNO                   | (1) N.C. and (1) N.O. auxiliary contact – 10 A |
| NCNC                   | (2) N.C. auxiliary contact – 10 A              |
| NONO                   | (2) N.O. auxiliary contact – 10 A              |
| PC                     | Protective cover – for line and load           |
| S                      | Stainless steel handle <sup>(4)</sup>          |

- (1) 30...100 A Class J fused kits are supplied with clips. 200 A and 400 A J fuses are direct mounted, or can be supplied as part of the kit using the “-HJ” code. The class H options are not configurable. Fuse clips must be selected separately.
- (2) Operating mechanism, lugs, and handle are required selections. Options must be listed in alphabetical order to create a valid catalog number.
- (3) Standard lugs supplied with 30/60/100 A devices. See [Lug Table](#) for 200/400/600 A lug options.
- (4) Chrome plated steel for NEMA Type 4.

### Lug Table

| Code                 | Switch Rating [A] | Conductor Type | Cat. No.    |
|----------------------|-------------------|----------------|-------------|
| blank <sup>(1)</sup> | 30                | Al             | 1494U-LA36  |
|                      | 60                | Al             |             |
|                      | 100               | Al             | 1494U-LA100 |
| LC                   | 200               | Cu             | 1494U-LC200 |
| LA                   | 200               | Al Cu          | 1494U-LA200 |
| LC                   | 400               | Cu             | 1494R-N14   |
| LC1                  | 400               | Cu             | 1494R-N15   |
| LA                   | 400               | Al             | 1494U-LA400 |
| LC <sup>(2)</sup>    | 600               | Cu             | 1494R-N10   |
| LCR <sup>(3)</sup>   | 600               | Cu             | 1494R-N11   |
| LC1                  | 600               | Cu             | 1494R-N12   |
| LA                   | 600               | Al             | 1494U-LA600 |

- (1) Supplied with disconnect switch.
- (2) Class J fuses for use with 600A switches with Class J Fuses.
- (3) Class R fuses for use with 600A switches with Class R Fuses.

### Product Selection

Use the components product selection tables for user-assembled devices.



### Universal Disconnect Switches

| Continuous Current Rating [A] | Maximum Horsepower - UL and CSA Applications [V] |           |     |     |     |             |     |                   |     | Maximum kW - IEC Applications (Category AC 23) [V] |            |            | Cat. No.                  |
|-------------------------------|--|-----------|-----|-----|-----|-------------|-----|-------------------|-----|--|------------|------------|---------------------------|
|                               | 3-Phase, 60 Hz                                   |           |     |     |     | 1 Phase, AC |     | DC <sup>(1)</sup> |     | 3-Phase, 50 Hz                                     |            |            |                           |
|                               | 115V   | 200...208 | 230 | 460 | 575 | 115         | 230 | 250               | 600 | 220...240V   | 380...440V | 500...600V |                           |
| 30                            | 3  | 7.5       | 7.5 | 15  | 20  | 2           | 3   | —                 | 15  | 5.5  | 11         | 15         | 1494U-D30 <sup>(2)</sup>  |
| 60                            | 7.5  | 15        | 15  | 30  | 50  | 3           | 10  | —                 | 30  | 11   | 22         | 37         | 1494U-D60 <sup>(2)</sup>  |
| 100                           | —  | 25        | 30  | 60  | 75  | —           | —   | —                 | 50  | 22   | 45         | 55         | 1494U-D100 <sup>(2)</sup> |
| 200                           | —  | 50...60   | 60  | 125 | 150 | —           | —   | —                 | 40  | 48   | 90         | 110        | 1494U-D200                |
| 400                           | —  | 75        | 125 | 250 | 350 | —           | —   | 50                | —   | 90   | 185        | 257        | 1494U-D400                |
| 600                           | —  | 150       | 200 | 400 | 500 | —           | —   | 50                | —   | 150  | 295        | 375        | 1494V-DS600               |

- (1) Ratings are based on 2 poles in series to break one line of the DC supply voltage and the remaining pole to break the second DC supply line.
- (2) Terminal lugs are installed on the line side of each disconnect switch. Additional terminal lugs are included with each disconnect switch for field installation on the load side of the switch or on the fuse block.

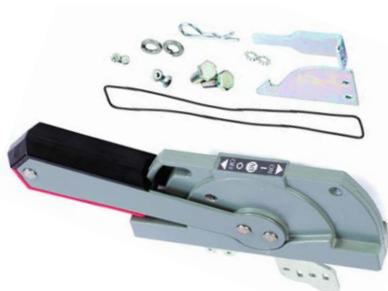
### Variable Rod Operator – Rod and Support Bracket



| Disconnect Switch Size [A] | Enclosure Working Depth [in. (mm)] <sup>(1)</sup> |              | Cat. No.                 |
|----------------------------|---|--------------|--------------------------|
|                            | Minimum   | Maximum      |                          |
| 30, 60, 100, 200           | 6-3/4 (172)                                       | 19 (483)     | 1494U-R1                 |
| 200                        | 6-3/4 (172)                                       | 9-1/8 (232)  | 1494V-RA3                |
| 200                        | 9-1/8 (232)                                       | 21-5/8 (585) | 1494V-RA4                |
| 400, 600                   | 9-1/2 (241)                                       | 10 (254)     | 1494V-RB3 <sup>(2)</sup> |
| 400, 600                   | 9-1/2 (241)                                       | 23 (584)     | 1494V-RB4 <sup>(2)</sup> |

- (1) Enclosure depth is measured from the top of the flange to the disconnect switch mounting surface.
- (2) This kit includes two connecting rods.

### Operating Handles



| Handle Type <sup>(1)</sup> | Description               | Mounting             | Disconnect Switch Size [A] | Cat. No.                 |
|----------------------------|---------------------------|----------------------|----------------------------|--------------------------|
| Type 1, 3R, 4, 4X, 12      | Non-metallic              | Right or Left Flange | 30, 60, 100, 200           | 1494U-HP1 <sup>(2)</sup> |
|                            |                           |                      |                            | 1494F-P1                 |
| Type 1, 3R, 4, 12          | Painted Metal             | Right or Left Flange | 30, 60, 100, 200           | 1494U-HM1 <sup>(2)</sup> |
|                            |                           |                      |                            | 1494F-M1                 |
|                            |                           |                      |                            | 1494F-M2 <sup>(2)</sup>  |
| Type 4, 4X                 | Stainless Steel, type 304 | Right or Left Flange | 30, 60, 100, 200           | 1494U-HS1 <sup>(2)</sup> |
|                            |                           |                      |                            | 1494F-S1                 |
|                            |                           |                      |                            | 1494F-S2                 |

(1) Handles are lockable in OFF or ON positions, locking in the On position will require field modification by the end user of the handle  
 (2) Kits include the listed operating handle type.

### Cable Operator Mechanism



| Disconnect Switch Size [A] | Cable Length [ft (m)] | Cat. No.   |
|----------------------------|-----------------------|------------|
| 30, 60, 100                | 3 (0.91)              | 1494U-C313 |
|                            | 4 (1.22)              | 1494U-C314 |
|                            | 5 (1.52)              | 1494U-C315 |
|                            | 6 (1.83)              | 1494U-C316 |
| 200                        | 4 (1.22)              | 1494U-C24  |
|                            | 5 (1.52)              | 1494U-C25  |
|                            | 6 (1.83)              | 1494U-C26  |
| 400                        | 4 (1.22)              | 1494U-C44  |
|                            | 5 (1.52)              | 1494U-C45  |
|                            | 6 (1.83)              | 1494U-C46  |
| 600                        | 4 (1.22)              | 1494U-C64  |
|                            | 5 (1.52)              | 1494U-C65  |
|                            | 6 (1.83)              | 1494U-C66  |

### Trailer Fuse Block Kits



| Disconnect Switch Size [A] | Fuse  | Cat. No.                 |
|----------------------------|---|--------------------------|
| 30                         | See <a href="#">Fuse Clip Kits - includes six clips and mounting hardware on page 8</a> | 1494U-F30                |
| 60                         |   | 1494U-F60                |
| 100                        |   | 1494U-F100               |
| 200                        |   | 1494U-F200               |
| 400                        |   | 1494U-F400               |
| 600                        | Class J   | 1494V-FS600              |
|                            | Class H   | 1491-N621 <sup>(1)</sup> |
|                            | Class R   | 1491-R621 <sup>(1)</sup> |

(1) Separately mounted fuse blocks (3 are required).



See [Fuses on page 68](#) for approximate fuse dimensions.

**Fuse Clip Kits - includes six clips and mounting hardware**

| Product   | Fuse Class | Fuse Clip Rating   |                    | Cat. No. (1)       |                             |              |
|---|------------|--------------------|--------------------|--------------------|-----------------------------|--------------|
|   |            | 250V               | 600V               |                    |                             |              |
|  <p>1401-N42<br/>(Spring Type Fuse Clip)</p> | H          | 30                 | —                  | 1494U-FC302J       |                             |              |
|   |            | 60                 | 30                 | 1494U-FC30J        |                             |              |
|   |            | —                  | 60                 | 1494U-FC60J        |                             |              |
|   |            | 100                | 100                | 1494U-FC100J       |                             |              |
|   |            | 200                | 200                | 1401-N45           |                             |              |
|   |            | 400                | 400                | 1401-N46           |                             |              |
|   |            | 600                | 600 <sup>(2)</sup> | —                  |                             |              |
|   | J          | —                  |                    | 30                 | 1494U-FC30J                 |              |
|   |            |                    |                    | 60                 | 1494U-FC60J                 |              |
|   |            |                    |                    | 100                | 1494U-FC100J <sup>(3)</sup> |              |
|   |            |                    |                    | 200                | 1401-N45 <sup>(3)</sup>     |              |
|   |            |                    |                    | 400                | 1401-N46 <sup>(3)</sup>     |              |
|   | R          |                    |                    | 600 <sup>(4)</sup> | —                           |              |
|   |            |                    |                    | 30                 | —                           | 1494U-FC302R |
|   |            |                    |                    | 60                 | 30                          | 1494U-FC30R  |
|   |            |                    |                    | —                  | 60                          | 1494U-FC60R  |
|   |            |                    |                    | 100                | 100                         | 1494U-FC100R |
|   |            |                    |                    | 200                | 200                         | 1401-N54     |
| 400   | 400        | 1401-N55           |                    |                    |                             |              |
|   |            | 600 <sup>(2)</sup> | 600 <sup>(2)</sup> | —                  |                             |              |

- (1) six clips and mounting hardware are included per kit.
- (2) Included with Bulletin 1491 separately mounted fuse blocks - catalog numbers 1491-N621 (Class H) and 1491-R621 (Class R) fuse blocks.
- (3) Fuse clips are not required when bolted to a terminal.
- (4) For Class J 600 amp fuse clips: Class J 600A fuses bolt directly to 600A 1494V-DS600 switch and 1494V-FS600 fuse block with supplied mounting hardware (no clips required).

## Accessories

### Auxiliary Contacts and Electrical Interlocks

| Description   |  | Contacts  | Disconnect Switch Size [A] | Cat. No. |               |
|---|--|---|----------------------------|----------|---------------|
| <b>Auxiliary Contact</b>  |   | <ul style="list-style-type: none"> <li>Indicates ON/OFF status of Bulletin 1494U</li> <li>Duplicates position of switch blades</li> <li>QuadConnect™ contact</li> <li>2.5 A</li> <li>C300, R150</li> </ul>                        | 1 N.O.                     | 30...200 | 1494U-N0LV    |
|   |  |   | 1 N.C.                     | 30...200 | 1494U-NCLV    |
|   | <ul style="list-style-type: none"> <li>Indicates ON/OFF status of Bulletin 1494U</li> <li>Duplicates position of switch blades</li> <li>Standard contact</li> <li>10 A</li> <li>A600, Q600</li> <li>-N8X, -N9X low energy switching</li> </ul> | 1 N.O.  | 30...200                   | 1494U-N0 |               |
|   |  | 1 N.C.  | 30...200                   | 1494U-NC |               |
|   |  | 1 N.O.  | 400                        | 1495-N8  |               |
|   |  | 1 N.O.  | 400                        | 1495-N8X |               |
|   |  | 1 N.C.  | 400                        | 1495-N9X |               |
|   |  | 1 N.C.  | 400                        | 1495-N9  |               |
|   |  | 1 N.O.  | 600                        | 595-A    |               |
| 1 N.C.  | 600  | 595-B   |                            |          |               |
| <b>Contact Adapter Kit (1)</b>  |   | • One adapter kit required per auxiliary contact  | —                          | 600      | 595-N1        |
| <b>Electrical Interlock (2)</b>   |    | <ul style="list-style-type: none"> <li>Removes system voltage from electronics to help prevent damage by transient voltage that is caused by opening the switch</li> <li>Early break</li> <li>10 A</li> <li>250V AC/DC</li> </ul> | 2 N.O.                     | 30...100 | 1494U-AE      |
|   |  | <ul style="list-style-type: none"> <li>Removes system voltage from electronics to help prevent damage by transient voltage that is caused by opening the switch</li> <li>Early break</li> <li>Right-hand mechanism</li> </ul>     | 1 N.O. and 1 N.C.          | 400      | 1495-N43      |
|   |  |   | 1 N.O. and 1 N.C.          | 600      | 1495-N34 (3)  |
|   |  |   | 2 N.O. and 2 N.C.          | 400      | 1495-N44      |
|   |  |   | 2 N.O. and 2 N.C.          | 600      | 1495-N35      |
| <ul style="list-style-type: none"> <li>Removes system voltage from electronics to help prevent damage by transient voltage that is caused by opening the switch</li> <li>Early break</li> <li>Standard contact</li> </ul> | 2 N.O. and 2 N.C.  | 200   | 1494U-AE200                |          |               |
| <b>Control Voltage Taps</b>   |   | • 2 per package   | —                          | 30...100 | 1494U-ALT31   |
|   |  |   |                            | 200      | 1494U-ALT200  |
|   |  |   |                            | 400      | 1494R-N19 (4) |
|   |  |   |                            | 600      | 1494U-ALT600  |
| <b>Defeater Bracket Extension Kit</b>   |   | • For use with operating handles that do not align properly with the door catch or door hardware on enclosures with a rolled lip flange construction.   | —                          | 30...200 | 1494V-H12     |
| <b>Channel Support Kit</b>  |   | • For use to prevent flexing of the operating handle mounting surface. This is especially useful when the operating handle is mounted on a channel in a multi-door enclosure.   | —                          | 30...200 | 1494V-H15     |

(1) One adapter kit is required per auxiliary contact.

(2) Not configurable; must be purchased individually.

(3) An additional adapter kit, Cat. No. 1495-N36, is required for installation.

(4) For 1494R-N19, 6 pieces per package.

Fuse Covers

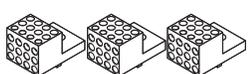
| Product   | Disconnect Switch Size [A] | Fuse Class  | Fuse Clip Rating |              | Use with Fuse Clips    | Cat. No.                |                               |
|---|----------------------------|-------------|------------------|--------------|------------------------|-------------------------|-------------------------------|
|   |                            |             | 250V             | 600V         |                        | Fuse Cover              | IP20 and IP1XB Fuse Cover     |
|    | 30, 60, 100                | Non-fusible | —                | —            | —                      | 1494U-PC1               | 1494U-PC2-IP20 <sup>(1)</sup> |
|   | 30                         | H, J        | 30               | —            | 1494U-FC302J           |                         |                               |
|   | 30                         | R           | 30               | —            | 1494U-FC302R           |                         |                               |
|   | 30                         | H, J        | —                | 30           | 1494U-FC30J            |                         |                               |
|   | 60                         | H, J        | —                | 60           | 1494U-FC60J            | 1494U-PC2               | 1494U-PC2-IP20 <sup>(1)</sup> |
|   | 100                        | H, J        | —                | 100          | 1494U-FC100J           |                         |                               |
|   | 30                         | R           | —                | 30           | 1494U-FC30R            |                         |                               |
|   | 60                         | R           | —                | 60           | 1494U-FC60R            |                         |                               |
| 100   | R                          | —           | 100              | 1494U-FC100R |                        |                         |                               |
|    | 200                        | H, J        | 200              | 200          | 1401-N45               | 1494U-PC200             | 1494U-PC200-IP20              |
|   |                            | R           | 200              | 200          | 1401-N54               | 1494U-PC200             | 1494U-PC200-IP20              |
|   | 400                        | H, J        | 400              | 400          | 1401-N46               | 1494U-PC400             | 1494U-PC400-IP1XB             |
|   |                            | R           | 400              | 400          | 1401-N55               |                         |                               |
|  | 600                        | Non-fusible | —                | —            | —                      | 1495-N61                | —                             |
|   |                            | H, J        | 400              | 400          | 1401-N46               |                         |                               |
|   |                            | R           | 400              | 400          | 1401-N55               |                         |                               |
|   |                            | J           | 600              | 600          | — <sup>(2)</sup>       |                         |                               |
|   |                            | H, R        | 600              | 600          | 1491-R621<br>1491-N621 | 1495-N69 <sup>(3)</sup> | —                             |

(1) For use with fused disconnects or non-fused is a larger enclosure.  
 (2) Fuse clips are not required when bolted to the terminals.  
 (3) For use with separately mounted fuse blocks. See publication [1495-IN012](#).

Terminal Lug Connectors

| Product <sup>(1)</sup>  | Disconnect Switch Size [A] | Conductor Type | Number of Conductors | Wire Size [AWG]                | Cat. No.                   |          |
|---|----------------------------|----------------|----------------------|--------------------------------|----------------------------|----------|
|    | 30...60                    | Cu wire        | 1                    | 14...4                         | 1494U-LC36                 |          |
|   |                            |                | 2                    | 14...8                         |                            |          |
|   |                            |                | 4                    | 16                             |                            |          |
|   | 30...60                    | Cu wire        | 1                    | 14...2                         | 1494U-LA36 <sup>(2)</sup>  |          |
|   |                            |                | Al wire              | 1                              |                            | 12...2   |
|   |                            |                | Cu wire              | 2 <sup>(3)</sup>               |                            | 14...10  |
| Al wire   |                            |                | 2 <sup>(3)</sup>     | 12...10                        |                            |          |
| 100   | Cu wire                    | 1              | 8...1/0              | 1494U-LC100                    |                            |          |
|    | 100                        | Cu Wire        | 1                    | 14...1/0                       | 1494U-LA100 <sup>(2)</sup> |          |
|   |                            |                | Al wire              | 1                              |                            | 12...1/0 |
|   |                            |                | Cu wire              | 2 <sup>(3)</sup>               |                            | 12...4   |
|   |                            |                | Al wire              | 2 <sup>(3)</sup>               |                            | 12...4   |
|    | 200                        | Cu wire        | 1                    | 6...250 MCM                    | 1494U-LC200                |          |
|   |                            | Cu or Al wire  | 1                    | 6...250 MCM                    | 1494U-LA200                |          |
|    | 400                        | Cu wire        | 2                    | 1/0...250 MCM                  | 1494R-N14                  |          |
|   |                            |                | 1                    | 4/0...500 MCM                  | 1494R-N15 <sup>(4)</sup>   |          |
|   | 600                        | Cu wire        | 2                    | 1/0...350 MCM (Class J fuse)   | 1494R-N10                  |          |
|    | 400                        | Cu or Al wire  | 2                    | 6 AWG...300 MCM                | 1494U-LA400                |          |
|   | 600                        | Cu wire        | 2                    | 1/0...350 MCM (Class H/R fuse) | 1494R-N11 <sup>(5)</sup>   |          |
|  | 600                        | Cu wire        | 1                    | 1/0...500 MCM                  | 1494R-N12 <sup>(5)</sup>   |          |
|  | 600                        | Cu or Al wire  | 2                    | 1/0...500 MCM                  | 1494U-LA600                |          |

**Multiple Cable Terminal Lugs – for multiple motor application (load side only)**

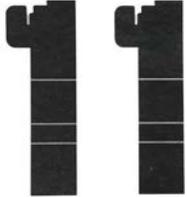
|   |          |               |                  |        |             |
|---|----------|---------------|------------------|--------|-------------|
|  | 30...100 | Cu wire       | 6                | 14...4 | 1494U-LM31  |
|   |          | Al wire       | 6                | 12...4 |             |
|   |          | Cu or Al wire | 6 <sup>(6)</sup> | (2) 10 |             |
|  | 200      | Cu or Al wire | 6                | 14...4 | 1494U-LM200 |
|  | 400      | Cu or Al wire | 12               | 14...4 | 1494U-LM400 |
|   | 600      | Cu or Al wire | 12               | 14...4 | 1494U-LM600 |

- (1) Package quantity of 3.
- (2) Supplied standard with 1494U kits.
- (3) Wire pairs must be consistent in type, strand, and wire size.
- (4) When the Cat. No. 1494R-N15 lug kit is used, the switch is not to exceed a load current of 380 A.
- (5) For use with Cat. No. 1491-N621 or Cat. No. 1491-R621 separately mounted fuse blocks. Package quantity of 2.
- (6) Allows for (2) #10 (Cu or Al) per terminal.



See [page 68](#) for approximate fuse dimensions.

Replacement Parts

| Product   | Description  | Cat. No.    |
|---|--|-------------|
|  | Hardware Kit for 30...100 A disconnect switches<br>• Includes (4) mounting screws and (1) line-side shield | 1494U-K31   |
|  | Hardware Kit for 30...100 A fuse blocks<br>• Includes (2) mounting screws and (2) phase barriers.          | 1494U-PB31  |
|  | 200 A phase barrier  | 1494U-PB200 |
|   | 400 A phase barrier  | 1494F-PH5   |
|   | 600 A phase barrier...contact Technical Support  | ...         |
|   | 30...100 Lines side terminal guard and hardware bag  | 1494U-K31   |
|   | 200A Line side terminal guard and hardware bag contact technical support                                   | ...         |
|   | change description to 400A Line side terminal guard and hardware bag contact technical support.            | ...         |

# Specifications

## 1494U Disconnect Switch Specifications

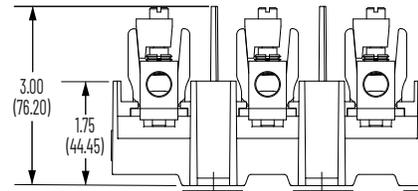
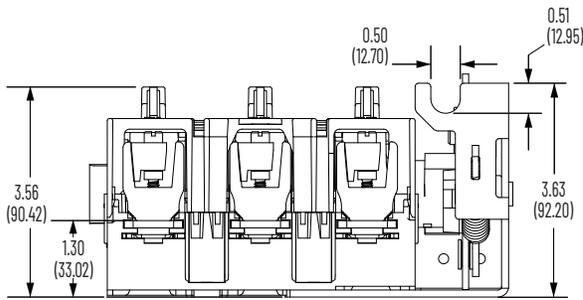
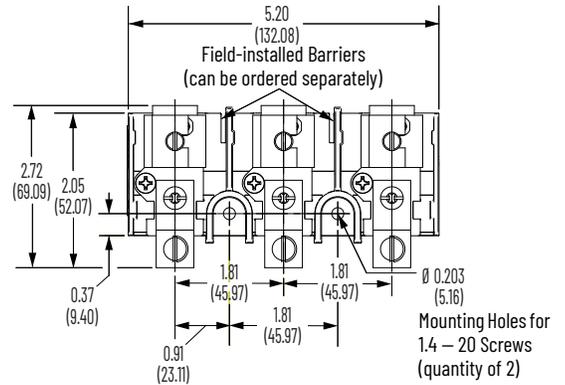
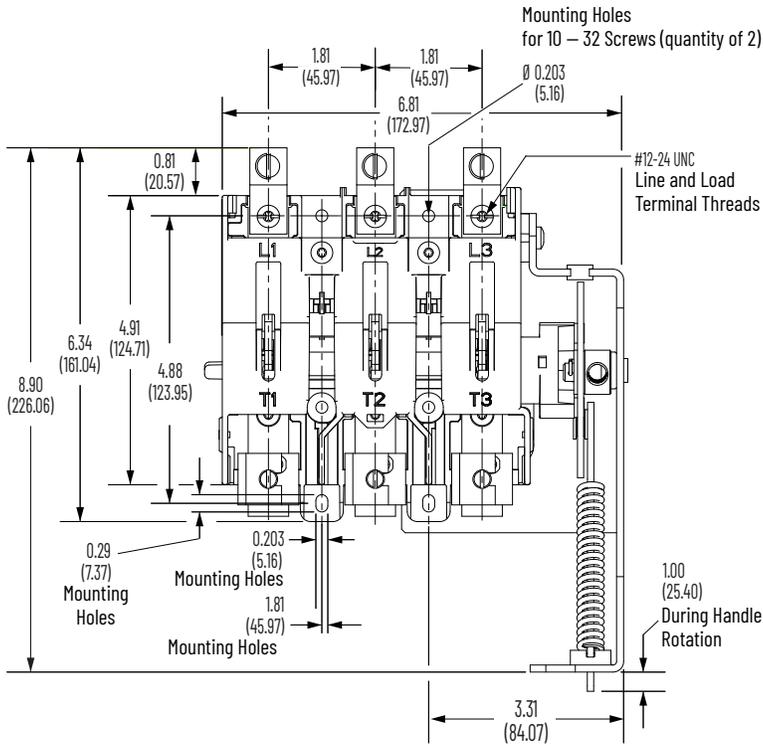
| <b>Disconnect Switch Electrical Ratings</b>               |                    |  |   |        |       |   |       |       |  |
|---|--------------------|--|---|--------|-------|---|-------|-------|--|
| Switch Size   |                    |  | 30  | 60     | 100   | 200   | 400   | 600   |  |
| Rated Insulation voltage Ui (UL) IEC                      |                    |  | (600) 660V  |        |       |   |       |       |  |
| Rating UL/CSA/NEMA  | Hp                 | 230V/60 Hz   | 7.5   | 15     | 30    | 60  | 125   | 200   |  |
|   |                    | 460V/60 Hz   | 15  | 30     | 60    | 125   | 250   | 400   |  |
|   |                    | 575V/60 Hz   | 20  | 50     | 75    | 150   | 350   | 500   |  |
|   |                    | 250V DC  | 5   | 10     | 20    | 40  | 50    | 50    |  |
|   | Continuous Current | 600V DC  | 30  | 60     | 100   | 200   | 400   | 600   |  |
|   | 250V DC            |  |   |        |       |   |       |       |  |
| Ratings IEC Applications                                  | Maximum kW (AC23)  | 220V/50 Hz   | 5.5   | 11     | 22    | 48  | 90    | 150   |  |
|   |                    | 440V/50 Hz   | 11  | 22     | 45    | 90  | 185   | 295   |  |
|   |                    | 550V/50 Hz   | 15  | 37     | 55    | 110   | 257   | 375   |  |
| <b>Auxiliary Contact Electrical Ratings<sup>(1)</sup></b> |                    |  |   |        |       |   |       |       |  |
| Standard Contact 1 N.O. or 1 N.C.                         | NEMA/EEMAC         | A600 <sup>(2)</sup> , Q600   |   |        |       |   |       |       |  |
|   | IEC                | AC 15, DC 13 to IEC/EN60947-5-1 and UL 508, 17V, 5 mA minimum  |   |        |       |   |       |       |  |
| Low-level Contact 1 N.O. or 1 N.C.                        | NEMA/EEMAC         | C300, R150   |   |        |       |   |       |       |  |
|   | IEC                | AC 15, DC 13 to IEC/EN60947-5-1 and UL 508, 5V, 1 mA minimum   |   |        |       |   |       |       |  |
| <b>Electrical Interlock Ratings</b>                       |                    |  |   |        |       |   |       |       |  |
| Standard Contact 2 N.O.                                   |                    | NEMA/EEMAC   | 10 A: 250V AC, 0.3 A: 250V DC   |        |       |   |       |       |  |
| <b>Mechanical</b>   |                    |  |   |        |       |   |       |       |  |
| Degree of Protection                                      | Operating handles  |  | Non-metallic Type 1, 3R, 4, 4X, 12<br>Painted Type 1, 3R, 4, 12<br>Stainless Type 4, 4X |        |       | Painted Type 1, 3R, 4, 12<br>Stainless Type 4, 4X |       |       |  |
| Switch Size   |                    |  | 30 A  | 60 A   | 100 A | 200 A   | 400 A | 600 A |  |
| Mechanical Life (typical operations)                      |                    |  |   | 10 000 |       | 8000  | 6000  | 5000  |  |
| Switching Frequency (operations/min), maximum             |                    |  |   | 6      |       | 5   | 4     | 3     |  |
| <b>Environment Specifications</b>                         |                    |  |   |        |       |   |       |       |  |
| Ambient Temperature                                       | Open               |  | -20...+60 °C (-4...+140 °F)   |        |       |   |       |       |  |
|   | Enclosed           |  | -20...+40 °C (-4...+104 °F)   |        |       |   |       |       |  |
|   | Storage            |  | -40...+65 °C (-40...+149 °F)  |        |       |   |       |       |  |
| Altitude (per IEC 947-1)                                  |                    | 2000 m (6562 ft)   |   |        |       |   |       |       |  |
| Relative Humidity (per IEC 947-1)                         |                    | 90% at +20 °C (+68 °F) and 50% at +40 °C (+104 °F)   |   |        |       |   |       |       |  |
| <b>Design Specification/Test Requirements</b>             |                    |  |   |        |       |   |       |       |  |
| Dielectric Strength                                       |                    | 2200V for 1 minute   |   |        |       |   |       |       |  |
| Short-circuit Withstand Capability                        |                    | 10 000 A, 600V AC/DC: unfused or with Class H fuses<br>10 000 A, 600V DC: with Class J or Class R fuses<br>200 000 A, 600V AC: with Class J or Class R fuses |   |        |       |   |       |       |  |
| <b>Construction</b>                                       |                    |  |   |        |       |   |       |       |  |
| Switch Body Material                                      |                    | Glass-filled thermoplastic   |   |        |       | Glass-filled thermoset plastic                    |       |       |  |
| Switch Size   |                    | 30 A   | 60 A  | 100 A  | 200 A | 400 A   | 600 A |       |  |
| Conductor Size  |                    | See <a href="#">Replacement Parts</a> on Page 10   |   |        |       |   |       |       |  |
| Switches, Mechanisms, and Accessory Kits                  |                    | Zinc-plated steel, RoHS compliant finish   |   |        |       |   |       |       |  |

(1) Refer to general data for contact ratings, see [NEMA Ratings and Test Values for auxiliary contacts on page 69](#)

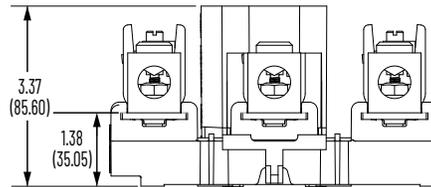
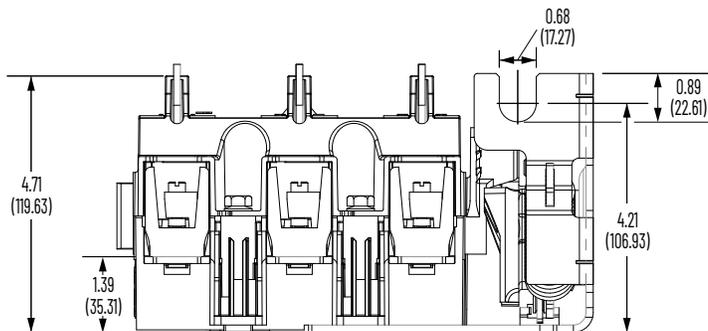
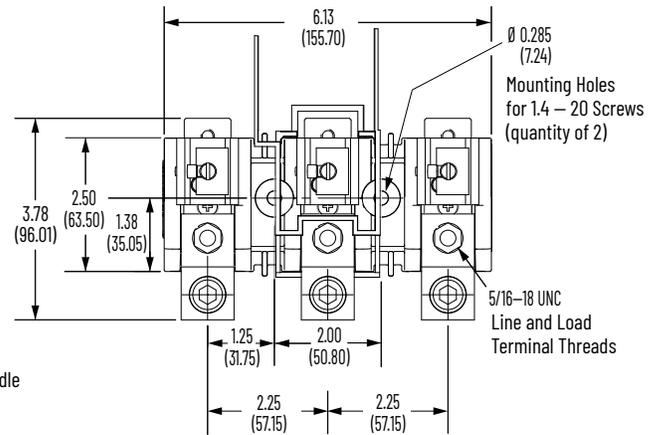
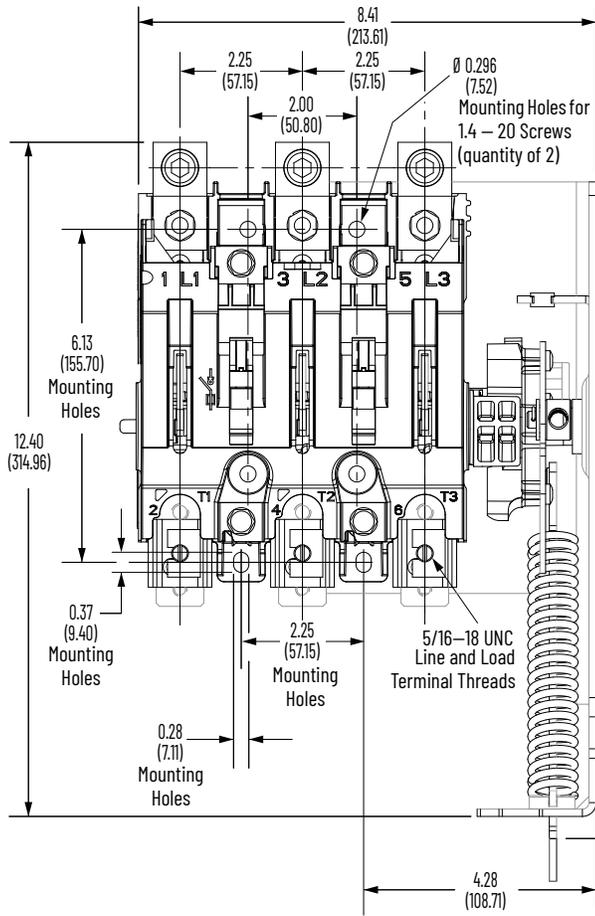
(2) The rating for 1 N.O., 200 A is B600.



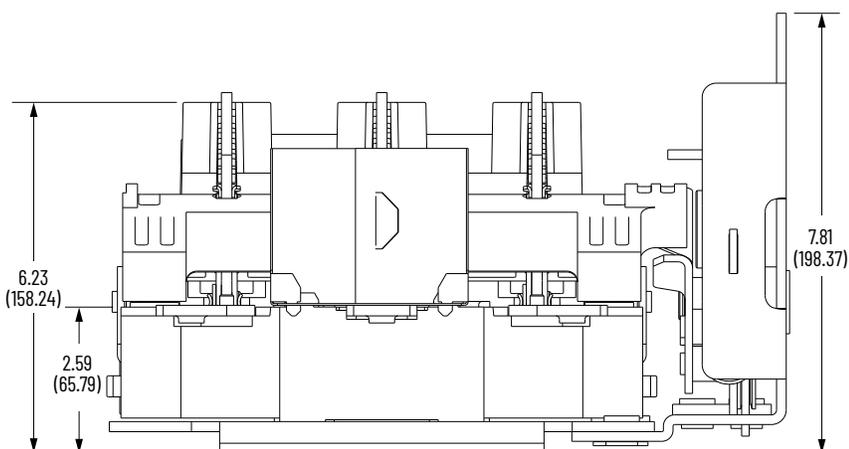
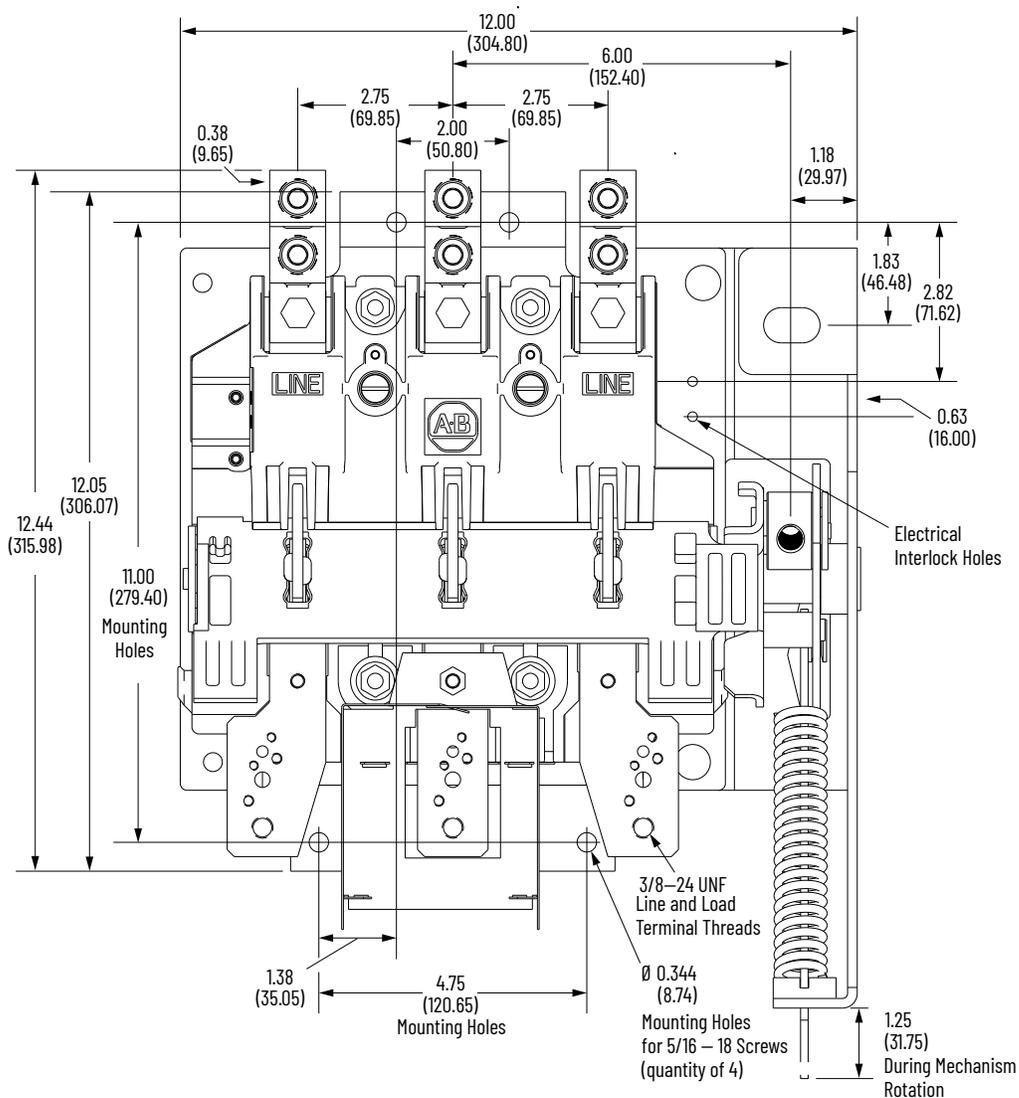
Universal Disconnect Switch and Fuse Block, 100 A



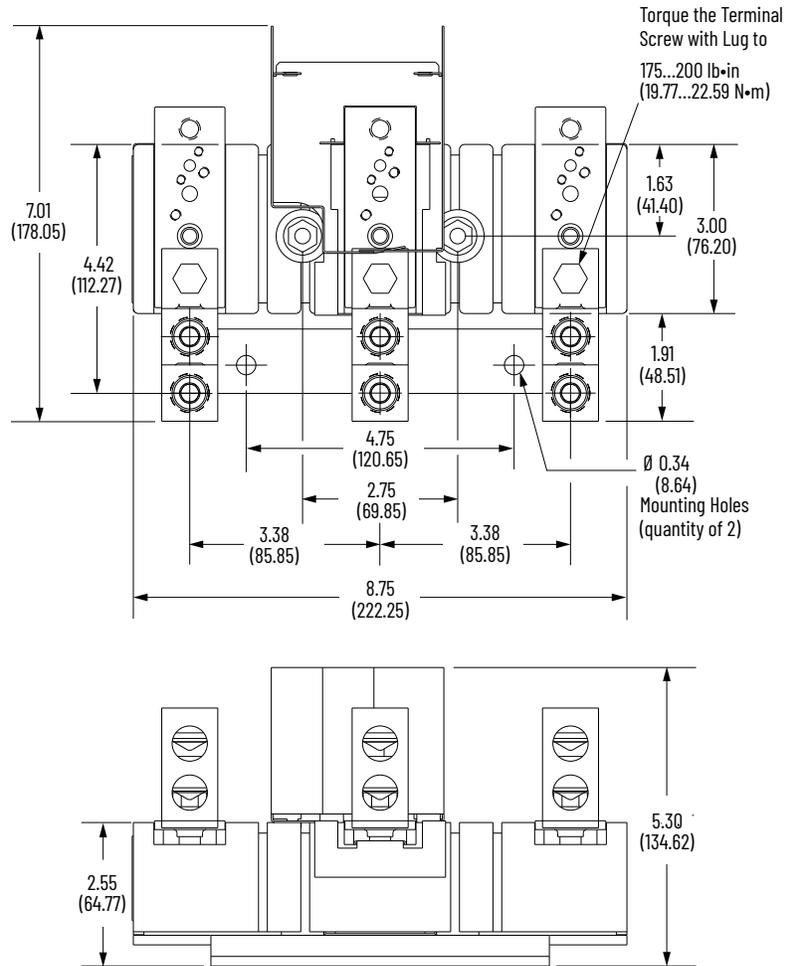
Universal Disconnect Switch and Fuse Block, 200 A



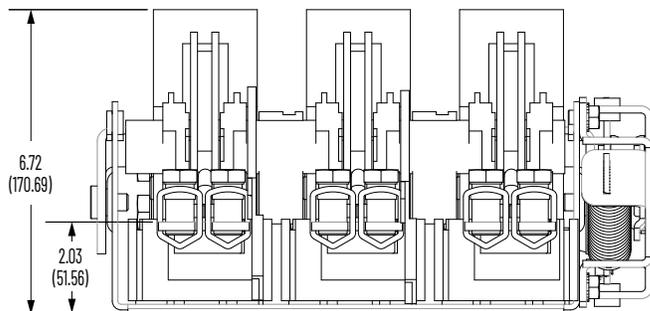
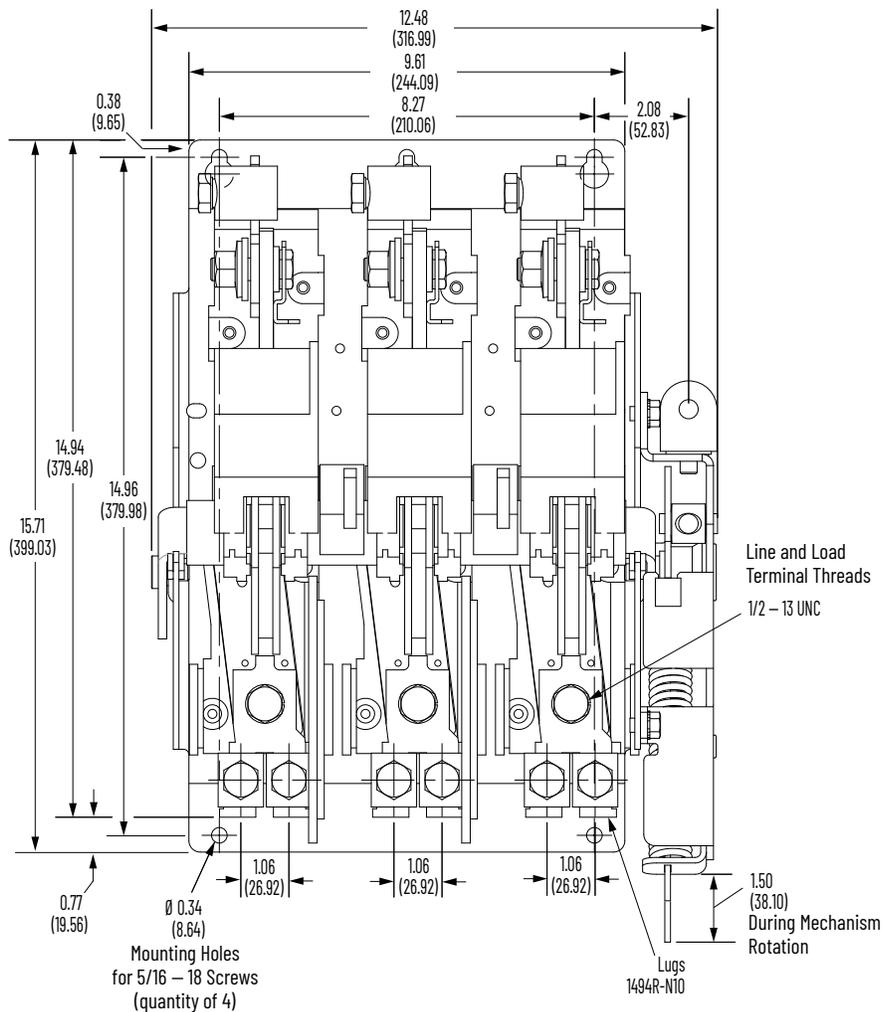
Universal Disconnect Switch, 400 A



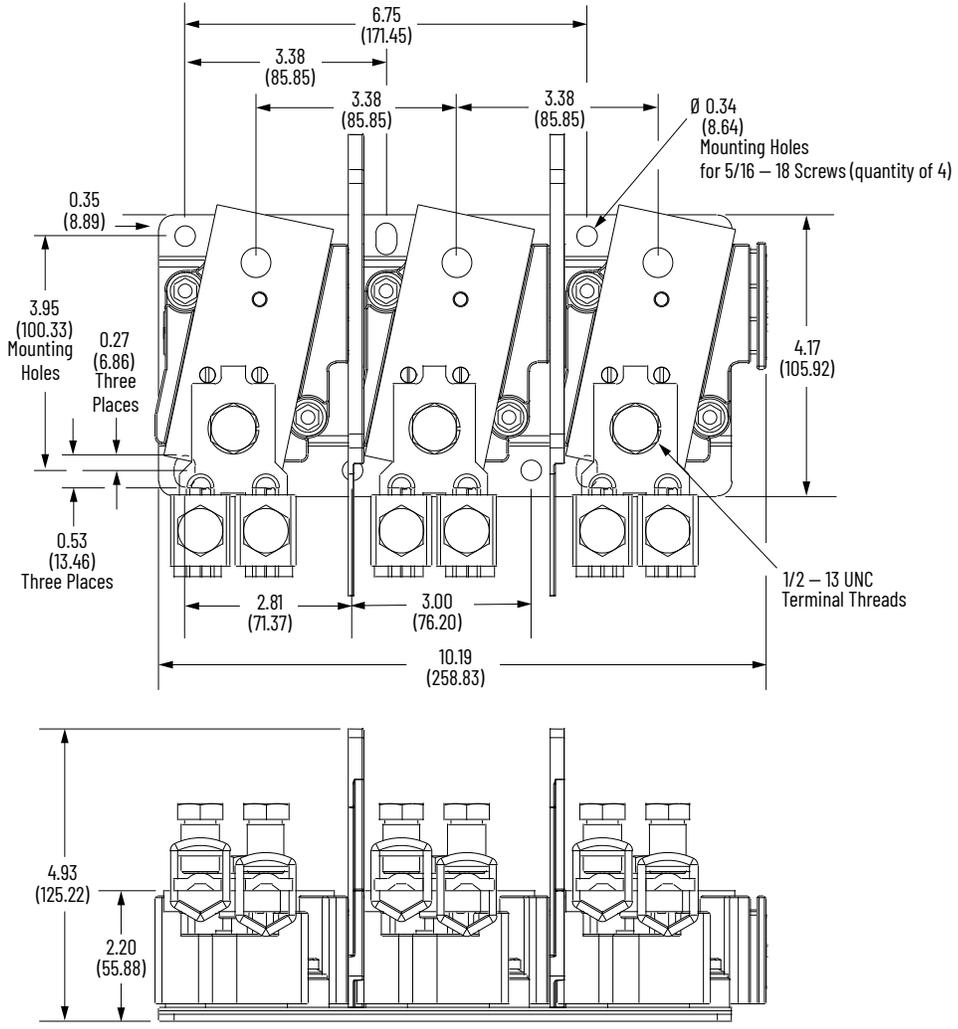
Universal Fuse Block, 400 A



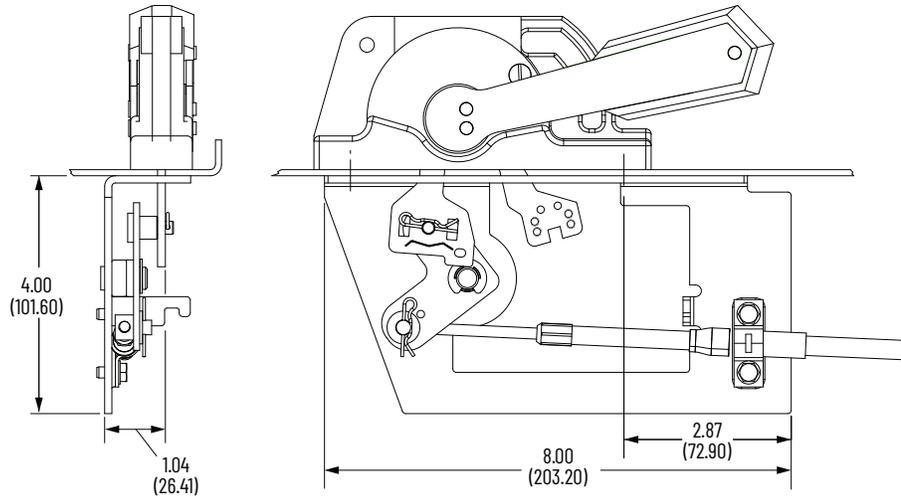
Universal Disconnect Switch, 600 A



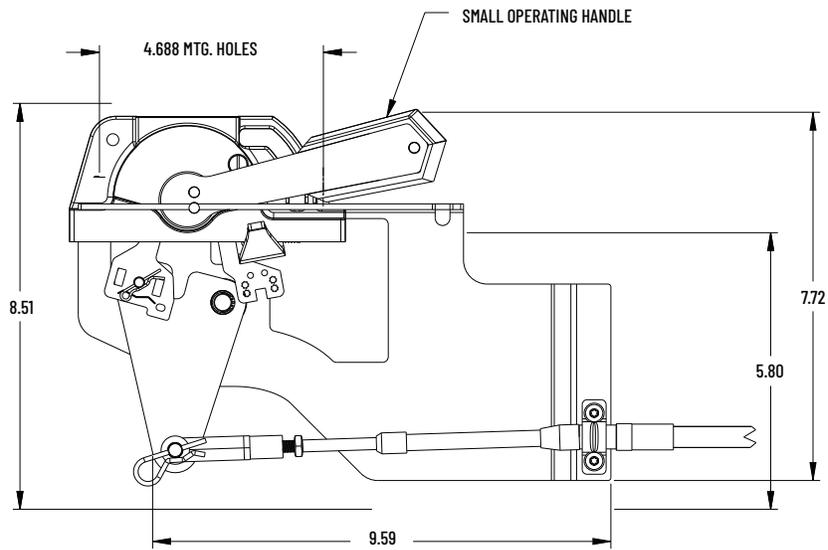
### Universal Fuse Block, 600 A



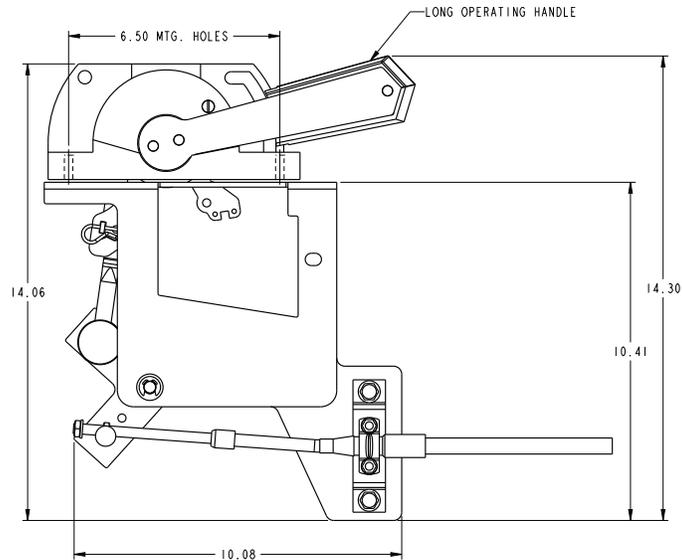
**Universal Handle with Support Bracket, 30...100 A Cable Operator**



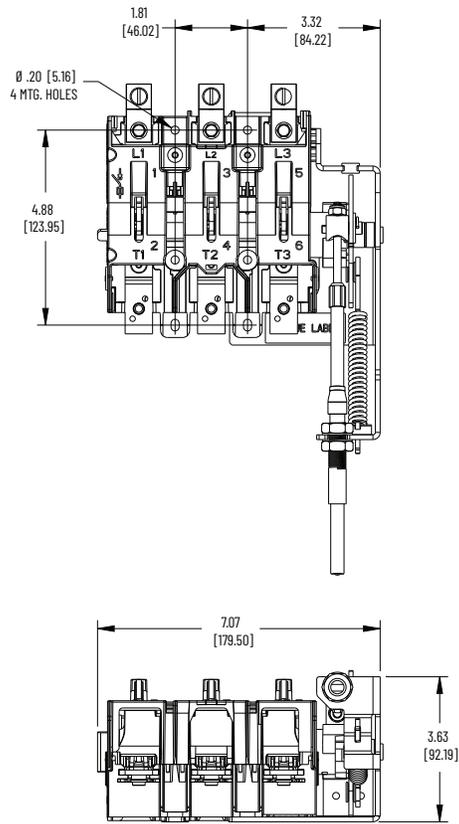
**Universal Handle with Support Bracket, 200 A Cable Operator**



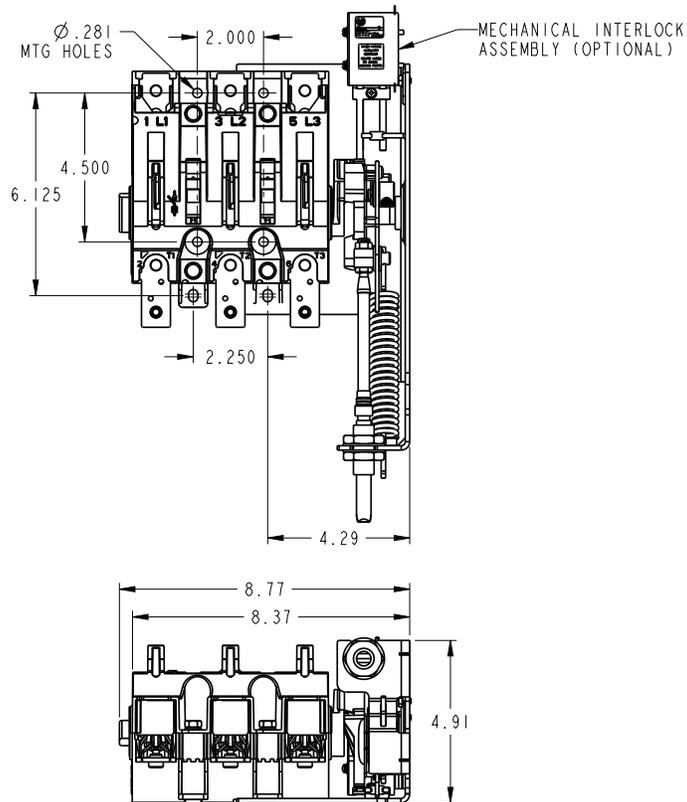
**Universal Handle with Support Bracket, 400 A and 600 A Cable Operator**



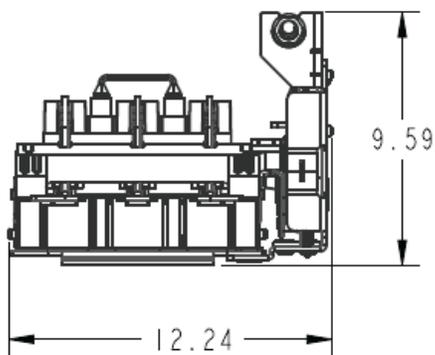
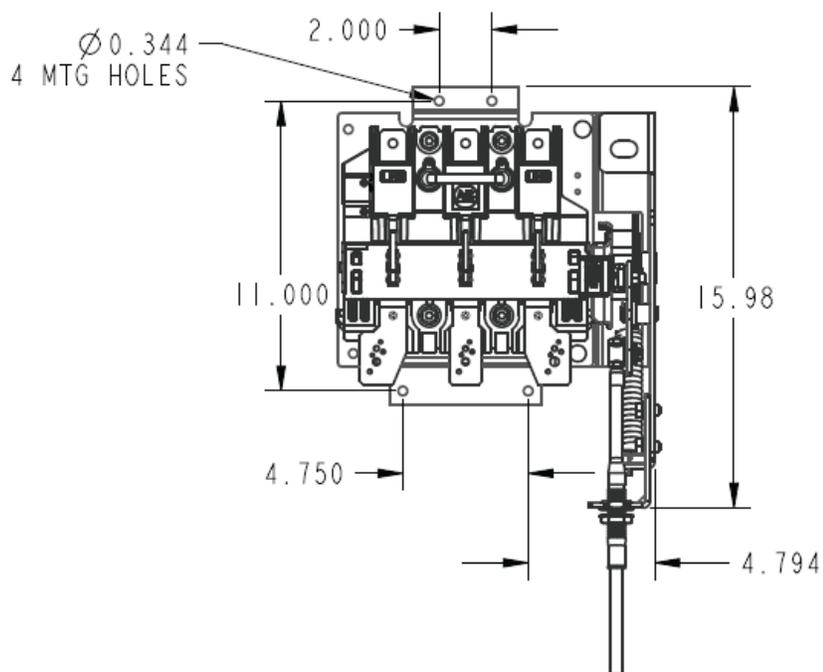
Switch with Cable Bracket 30...100 A



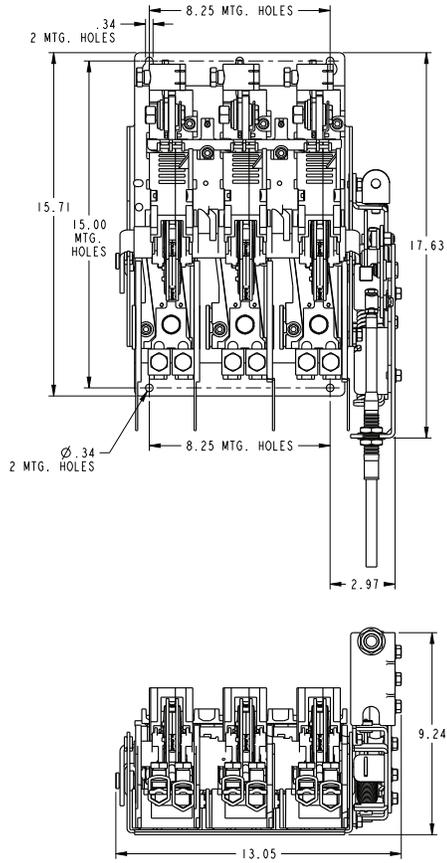
Switch with Cable Bracket 200 A



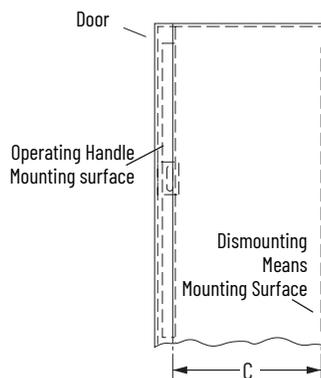
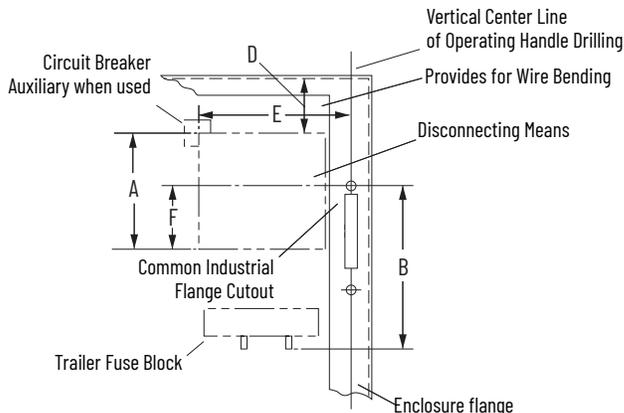
Switch with Cable Bracket 400 A



Switch with Cable Bracket 600 A

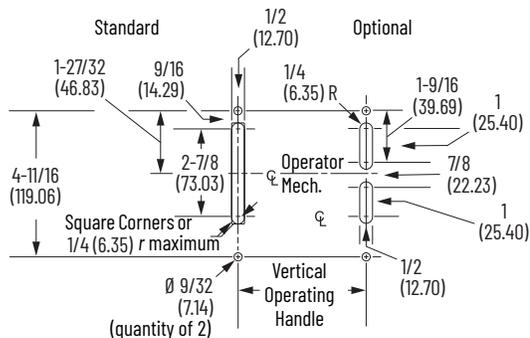


### 1494U Flange Cutout

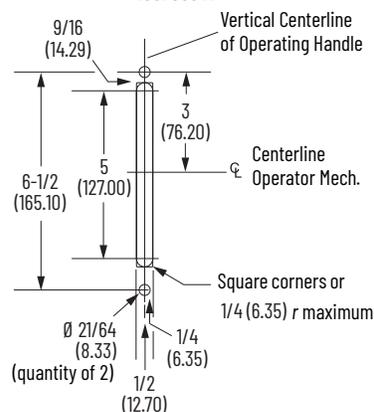


**Flange Cutout  
30/60/100/200 A**

**Flange Drilling**



**Flange Cutout  
400/600 A**



| NEMA Size | (A)               | (B) <sup>(1)</sup>               |                 | (C)             |                  | (D)               | (E)              | (F)          | Switch Mounting Hole Diameter |
|-----------|-------------------|----------------------------------|-----------------|-----------------|------------------|-------------------|------------------|--------------|-------------------------------|
|           |                   | Max                              | Min             | Max             | Max              |                   |                  |              |                               |
| 30        | 6-19/64 (159.94)  | 7-31/32 (202.41)                 | 8-1/2 (215.90)  | 21-5/8 (549.28) | 2-3/4 (69.85)    | 7-9/16 (192.09)   | 3-7/8 (98.43)    | 7/32 (5.56)  |                               |
| 60        |                   | 8-15/32 (215.11)                 |                 |                 |                  |                   |                  |              |                               |
| 100       |                   | 9-1/8 (231.78)                   |                 |                 |                  |                   |                  |              |                               |
| 200       | 8-5/64 (205.18)   | 15-9/64 (384.57)                 | 9-1/2 (241.30)  | 21-5/8 (549.28) | 6-35/64 (166.30) | 8-25/32 (223.04)  | 4-21/32 (118.27) | 19/64 (7.54) |                               |
| 400       | 11 (279.4)        | 18-7/32 (462.76)                 | 10-1/2 (266.70) | 21-5/8 (549.28) | 8 (203.2)        | 10 (254.00)       | 5-1/2 (139.70)   | 11/32 (8.73) |                               |
| 600       | 15-23/32 (399.26) | 17-19/32 (446.88) <sup>(2)</sup> |                 |                 | 12 (304.8)       | 11-27/32 (300.83) | 8-51/64 (223.44) |              |                               |

(1) This approximation varies by fuse class and size.  
 (2) Approximate dimension with Class J fuses.

# Bulletin 1494F Fixed-Depth Flange-Mounted Disconnect Switches

## Overview



Cat. No. 1494F-N30  
Disconnect Switch with Cat. No.  
1494F-F30 Fuse Block Adapter  
Plate and Operating Mechanism

### Bulletin 1494F – Fixed-Depth Flange-Mounted Disconnect Switches

Industrial rated disconnects. Pre-assembled switch, mechanism, and handle on a mounting bracket for use in flange constructed enclosures. **Such as the Hoffman NVent Bulletin A22.**

- 3-pole, 600V AC rating
- 30, 60, 100 ratings
- Same switch used for fusible and non-fusible applications
- Few catalog numbers to choose from, that accommodate a wide range of fuse clip types (Class H, J, and R)
- Accessories field installed
- NFPA 79 Compliant –

Disconnect switch linked to the handle at all times

- Visible blade construction for safety
- Right-hand flange operation
- Standard painted metal handle for Type 1, 3R, and 12, environments
- Lockable handle in the Off position; handle can be modified to lock in the On position.

## Product Selection

Choose a disconnect switch catalog number plus any additional accessories from the fuse clip kit and fuse block adapter plate kit tables.

### Disconnect Switches for Type 1, 3R, and 12 Enclosures

| Continuous Current Rating [A]<br>600V AC<br>250V DC | UL and CSA Applications<br>Maximum Hp |      |      |      | AC 1-Phase |      | DC <sup>(1)</sup> | IEC Applications<br>Maximum kW (AC23) |            |    | Fusible or Non-Fusible Switch<br><br>Cat. No. |
|---|---------------------------------------|------|------|------|------------|------|-------------------|---------------------------------------|------------|----|---|
|   | 3-Phase, 60 Hz                        |      |      |      | 115V       | 230V |                   | 3-Phase, 50 Hz                        |            |    |   |
|   | 200...208V                            | 230V | 460V | 575V |            |      | 220...240V        | 380...440V                            | 500...600V |    |   |
| 30  | 7.5                                   | 7.5  | 15   | 20   | 2          | 3    | 5                 | 5.5                                   | 11         | 15 | 1494F-N30                                     |
| 60  | 15                                    | 15   | 30   | 50   | 3          | 10   | 10                | 11                                    | 22         | 30 | 1494F-N60                                     |
| 100   | 25                                    | 30   | 60   | 75   | ...        | 15   | 20                | 22                                    | 45         | 55 | 1494F-N100                                    |

(1) Ratings based on utilizing two poles in series to break one line of the DC supply voltage and the remaining pole breaking the second DC supply line.

Select both a fuse clip kit and a fuse block adapter plate.

**Fusible Disconnect Switches select both a fuse clip kit and a fuse block adapter plate**

| Switch Rating [A] | Fuse Clip Rating [A] |   |          |          |          |          |  |                              |
|-------------------|----------------------|---|----------|----------|----------|----------|---|------------------------------|
|                   |                      | Fuse Clip Kit   |          |          |          |          |   |                              |
|                   |                      | Class R   |          | Class J  | Class H  |          |   | Fuse Block Adapter Plate Kit |
|                   |                      | 250V  | 600V     | 250/600V | 250V     | 600V     |   |                              |
| Cat. No.          |                      | Cat. No.  | Cat. No. | Cat. No. | Cat. No. | Cat. No. |   |                              |
| 30                | 30                   | 1401-N50  | 1401-N51 | 1401-N42 | 1401-N41 | 1401-N42 | 1494F-F30   |                              |
| 60                | 30                   | 1401-N50  | 1401-N51 | 1401-N42 | 1401-N41 | 1401-N42 | 1494F-F60   |                              |
|                   | 60                   | 1401-N51  | 1401-N52 | 1401-N43 | 1401-N42 | 1401-N43 |   |                              |
| 100               | 60                   | 1401-N51  | 1401-N52 | 1401-N43 | 1401-N42 | 1401-N43 | 1494F-F100  |                              |
|                   | 100                  | 1401-N53  | 1401-N53 | 1401-N44 | 1401-N44 | 1401-N44 |   |                              |

## Terminal Lug Connectors

| Product   | Disconnect Switch Size [A]  | Conductor Type | Number of Conductors | Wire Size [AWG]  | Cat. No.    |             |
|---|---|----------------|----------------------|------------------|-------------|-------------|
|  | 30...60   | Cu wire        | 1                    | 14...4           | 1494U-LC36  |             |
|   |   |                | 2                    | 14...8           |             |             |
|   |   |                | 4                    | 16               |             |             |
|   | 30...60   | Cu wire        | 1                    | 14...2           | 1494U-LA36  |             |
|   |   |                | Al wire              | 1                |             | 12...2      |
|   |   |                | Cu wire              | 2 <sup>(1)</sup> |             | 14...10     |
|   |   |                | Al wire              | 2 <sup>(1)</sup> |             | 12...10     |
|   | 100   | Al wire        | 1                    | 8...1/0          | 1494U-LC100 |             |
|   |  | 100            | Cu wire              | 1                | 14...1/0    | 1494U-LA100 |
| Al wire   |   |                | 1                    | 12...10          |             |             |
| Cu wire   |   |                | 2 <sup>(1)</sup>     | 12...4           |             |             |
| Al wire   |   |                | 2 <sup>(1)</sup>     | 12...4           |             |             |

(1) Wire pairs must be consistent in type, stand, and wire size.

# Specifications

| <b>Disconnect Switch Electrical Ratings</b>  |                       |   |  |      |     |       |  |
|--|-----------------------|---|--|------|-----|-------|--|
| Switch Size  |                       | 30 A  |  | 60 A |     | 100 A |  |
| Rated insulation voltage Ui (UL) IEC   |                       | (600) 660V  |  |      |     |       |  |
| Ratings<br>UL/CSA/NEMA   | Hp                    | 230V/60 Hz  | 7.5  | 15   | 30  |       |  |
|  |                       | 460V/60 Hz  | 15   | 30   | 60  |       |  |
|  |                       | 575V/60 Hz  | 20   | 50   | 75  |       |  |
|  |                       | 250V DC   | 5  | 10   | 20  |       |  |
| Ratings<br>IEC Applications  | Maximum kW (AC23)     | 600V AC   | 30   | 60   | 100 |       |  |
|  |                       | 250V DC   |  |      |     |       |  |
| Ratings<br>IEC Applications  | Maximum kW (AC23)     | 220V/50 Hz  | 5.5  | 11   | 22  |       |  |
|  |                       | 440V/50 Hz  | 11   | 22   | 45  |       |  |
|  |                       | 550V/50 Hz  | 15   | 37   | 55  |       |  |
| <b>Auxiliary Contact Electrical Ratings<sup>(1) (2)</sup></b>  |                       |   |  |      |     |       |  |
| Standard Contact 1N.O. or 1 N.C.   | NEMA/EEMAC            | A600, Q600  |  |      |     |       |  |
|  | IEC                   | AC 15, DC 13 to IEC/EN60947-5-1 and UL 508, 17V, 5 mA minimum                                 |  |      |     |       |  |
| Low-level Contact 1 N.O. or 1 N.C.   | NEMA/EEMAC            | C300, R150  |  |      |     |       |  |
|  | IEC                   | AC 15, DC 13 to IEC/EN60947-5-1 and UL 508, 5V, 1 mA minimum                                  |  |      |     |       |  |
| <b>Electrical Interlock Ratings</b>  |                       |   |  |      |     |       |  |
| Standard Contact 2 N.O.  | NEMA/EEMAC            | 10 A: 250V AC, 0.3 A: 250V DC   |  |      |     |       |  |
| <b>Mechanical</b>  |                       |   |  |      |     |       |  |
| Degree of protection   | Operating handles     | Painted Type 1, 3R, 4, 12   |  |      |     |       |  |
| Mechanical life (Typical)  |                       | 20 000 operations (30...100 A)  |  |      |     |       |  |
| Switching frequency (operations/hr)  |                       | 30, 60 and 100, sizes – 300 max. (30...100 A)   |  |      |     |       |  |
| <b>Environmental</b>   |                       |   |  |      |     |       |  |
| Temperature  | Operating             | -35...+40 °C (-31...+104 °F)  |  |      |     |       |  |
|  | Storage               | -40...+65 °C (-40...+149 °F)  |  |      |     |       |  |
| Altitude (per IEC 947-5)   |                       | 2000 m per IEC 337-1  |  |      |     |       |  |
| Relative Humidity (per IEC 947-3)  |                       | 90% at 20 °C (68 °F) and 50% at 40 °C (104 °F)  |  |      |     |       |  |
| <b>Design Specification/Test Requirements</b>  |                       |   |  |      |     |       |  |
| Dielectric strength  |                       | 2200V for 1 minute  |  |      |     |       |  |
| Electrical life  |                       | 6000 operations at rated current  |  |      |     |       |  |
| Short Circuit Withstand Capability   |                       | 10 000 A: unfused<br>10 000 A: with Class H fuses<br>200 000 A: with Class J or Class R fuses |  |      |     |       |  |
| <b>Construction</b>  |                       |   |  |      |     |       |  |
| Switch body material   |                       | Glass filled thermoplastic  |  |      |     |       |  |
| Contact material   |                       | Copper, tin-plated  |  |      |     |       |  |
| Mounting Bus thread size   | 30 A...100 A          | #10 - 24 UNC  |  |      |     |       |  |
| All wire rated 75 °C (167 °F) or higher must be sized per the local Electric Code for 75 °C (167 °F) wire. |                       |   |  |      |     |       |  |
| Conductor Size (mm <sup>2</sup> )  | 30 A<br>60 A<br>100 A | Refer to <a href="#">Terminal Lug Connectors on page 27</a>                                   |  |      |     |       |  |
| Recommended Torque   | 30 A<br>60 A<br>100 A | <b>Conductor into Lug</b><br>20 lb•in<br>45 lb•in<br>150 lb•in                                | <b>Lug to Terminal</b><br>20 lb•in<br>50 lb•in<br>90 lb•in |      |     |       |  |
| Switches, Mechanisms, and Accessory Kits   |                       | Zinc-plated steel, RoHS Compliant finish  |  |      |     |       |  |

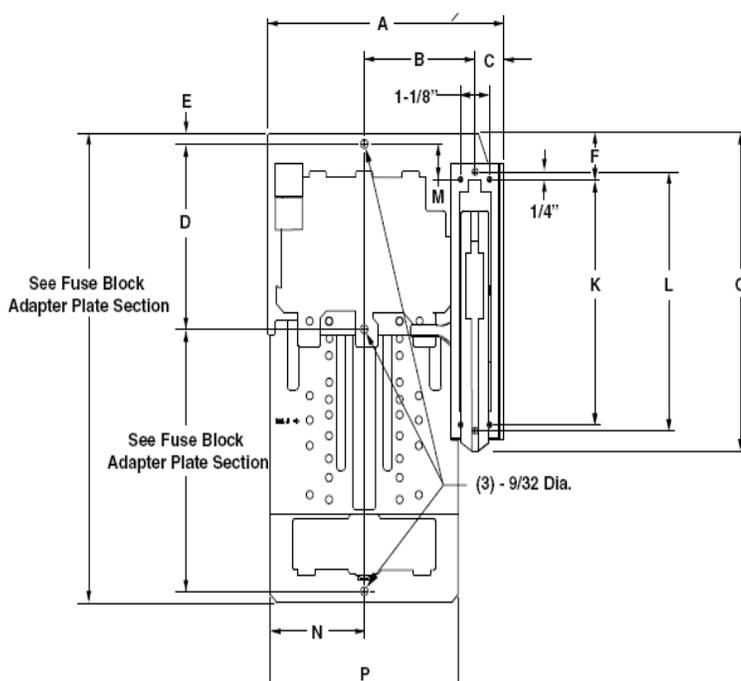
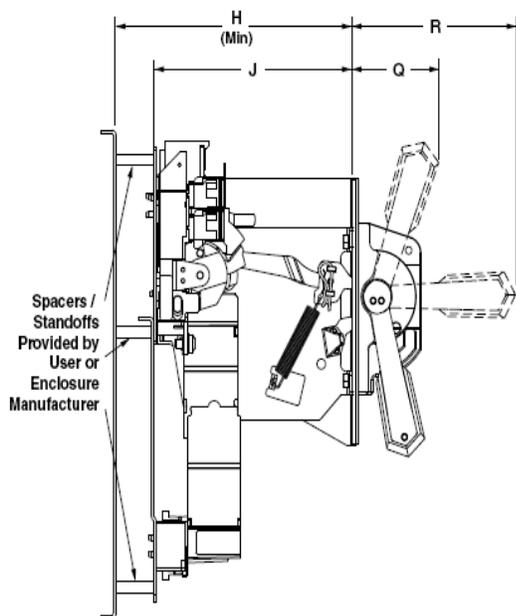
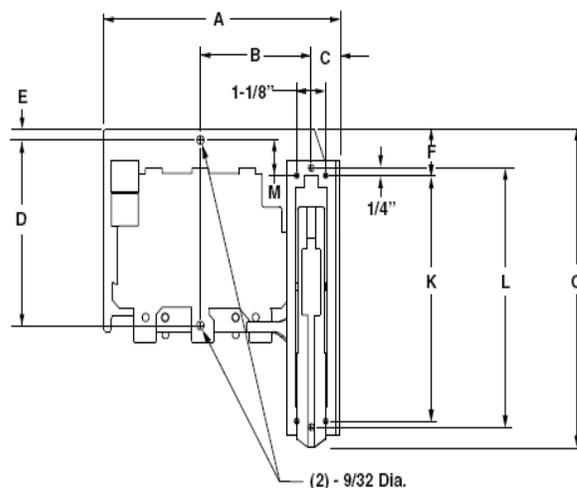
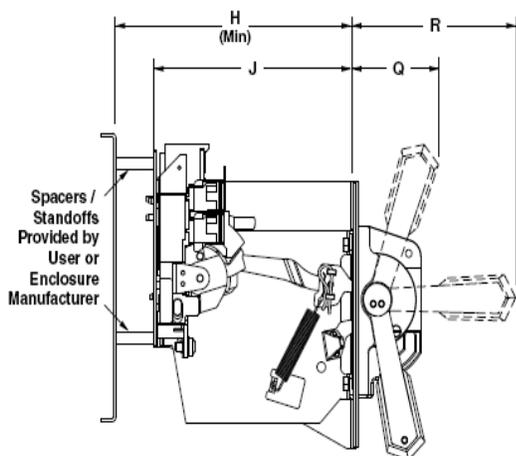
(1) The rating for 1 N.O., 200 A is B600.

(2) For contact ratings refer to [General Data on page 68](#).

## Approximate Dimensions

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

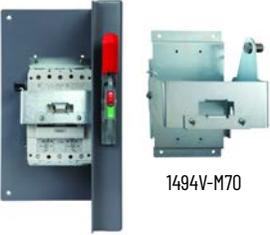
### Non-Fusible Disconnect Switch



| Switch Size [A] | A                 | B                 | C               | D            | E            | F                | G                 | H                | J                | K            | L                | M               | N                 | P                 | Q           | R                 |
|-----------------|-------------------|-------------------|-----------------|--------------|--------------|------------------|-------------------|------------------|------------------|--------------|------------------|-----------------|-------------------|-------------------|-------------|-------------------|
| 30              | 9-3/16<br>(233.4) | 4-5/16<br>(109.5) | 1-1/8<br>(28.6) | 6<br>(152.4) | 3/8<br>(9.5) | 1-9/16<br>(39.7) | 10-1/2<br>(266.7) | 8-1/2<br>(215.9) | 6-7/8<br>(174.6) | 8<br>(203.2) | 8-1/2<br>(215.9) | 15/16<br>(23.8) | 3-21/32<br>(92.9) | 7-5/16<br>(185.7) | 3<br>(76.2) | 5-7/16<br>(138.1) |
| 60              | 9-3/16<br>(233.4) | 4-5/16<br>(109.5) | 1-1/8<br>(28.6) | 6<br>(152.4) | 3/8<br>(9.5) | 1-9/16<br>(39.7) | 10-1/2<br>(266.7) | 8-1/2<br>(215.9) | 6-7/8<br>(174.6) | 8<br>(203.2) | 8-1/2<br>(215.9) | 15/16<br>(23.8) | 3-21/32<br>(92.9) | 7-5/16<br>(185.7) | 3<br>(76.2) | 5-7/16<br>(138.1) |
| 100             | 9-3/16<br>(233.4) | 4-5/16<br>(109.5) | 1-1/8<br>(28.6) | 6<br>(152.4) | 3/8<br>(9.5) | 1-9/16<br>(39.7) | 10-1/2<br>(266.7) | 9-3/4<br>(247.7) | 8-1/8<br>(206.4) | 8<br>(203.2) | 8-1/2<br>(215.9) | 15/16<br>(23.8) | 3-21/32<br>(92.9) | 7-5/16<br>(185.7) | 3<br>(76.2) | 5-7/16<br>(138.1) |

# Bulletin 1494F Variable-Depth Flange-Mounted, Components 140G, 140MG Circuit Breakers

**Table 1 - Variable Depth Flange-mounted Circuit Breaker Operating Mechanism**

|  | Description  | Compatible 3-Pole Circuit Breaker <sup>(1)</sup> |            | Cat. No.  |
|--|--|--|------------|-----------|
|  |  | Frame Size [A]                                   | Frame Size |           |
|  <p>1494V-M70</p> | <ul style="list-style-type: none"> <li>Allows actuation and status indication of breaker states: On, Off, Trip, and Reset</li> <li>Standards Compliance: UL 489, CSA C22.2 No. 5, CSA C22.2 No. 94.2</li> <li>Breaker must be installed directly behind flange handle cutout                             <ul style="list-style-type: none"> <li>Operator is installed to surround breaker</li> </ul> </li> <li>Complete mechanism consists of                             <ul style="list-style-type: none"> <li>Operating mechanism (<a href="#">Table 1</a>) and handle (<a href="#">Table 3</a>)</li> <li>Connecting Rod (<a href="#">Table 2</a>)</li> <li>Insulation Kit (if required) (<a href="#">Table 5</a>)</li> <li>Auxiliary contacts (if required) (<a href="#">Table 4</a>)</li> </ul> </li> </ul> | 125, 225, 250                                    | G, H, I, J | 1494V-M70 |
|  |  | 400  | K          | 1494V-M71 |
|  |  | 800, 1200  | M, N       | 1494V-M72 |

(1) 140G, 140MG Circuit Breaker must be purchased separately.



The mechanism that is listed in [Table 1](#) must be combined with a connecting rod, operating handle, and a circuit breaker (supplied by customer) to obtain a functional device. G-, H-, I-, and J-Frame devices require an insulation kit ([Table 5](#)).

**Table 2 - Connecting Rods for Circuit Breaker Operating Mechanism**

|   | Circuit Breaker Frame Size [A] | Enclosure Working Depth [in. (mm)] |              | Cat. No.  |
|---|--------------------------------|------------------------------------|--------------|-----------|
|   |                                | Minimum                            | Maximum      |           |
|  | 125, 150, 225, 250             | 6-3/4 (172)                        | 21-5/8 (549) | 1494V-RA4 |
|   | 400                            | 8-1/2 (216)                        | 21-5/8 (549) | 1494V-RA4 |
|   | 800, 1200                      | 9-1/2 (241)                        | 23 (584)     | 1494V-RB4 |

**Table 3 - Operating Handle for Circuit Breaker Operating Mechanism**

|   | Handle Type           | Description              | Circuit Breaker Frame Size [A] | Operating Handle Cat. No. |
|---|-----------------------|--------------------------|--------------------------------|---------------------------|
|  | Type 1, 3R, 4, 4X, 12 | Nonmetallic              | 125, 150, 250, 400             | 1494U-HP1                 |
|   | Type 1, 3R, 4, 12     | Painted Metal            | 125, 150, 250, 400             | 1494U-HM1                 |
|   | Type 4, 4X            | Stainless <sup>(1)</sup> | 125, 150, 250, 400             | 1494U-HS1                 |
|   | Type 1, 3R, 4, 12     | Painted Metal            | 800, 1200                      | 1494F-M2                  |
|   | Type 4, 4X            | Stainless <sup>(1)</sup> | 800, 1200                      | 1494F-S2                  |

(1) Stainless handles have a chrome-plated steel handle base made from Type 304 Stainless material.

**Table 4 - Auxiliary Contacts for Circuit Breaker Operating Mechanism**

|   | Description  | For Use With  | Contact Type | Cat. No. |
|---|--|---|--------------|----------|
|  | Auxiliary Contact Kit for Circuit Breakers <ul style="list-style-type: none"> <li>includes contacts and adapter</li> </ul> | 125...1200 A Allen-Bradley Bul. 140G Circuit Breakers | 1 N.O.       | 1495-N85 |
|   |  |   | 1 N.C.       | 1495-N86 |

**Table 5 - Insulation Kit for Circuit Breaker Operating Mechanism**

|   | Description    | For Use With   | Cat No.  |
|---|----------------|--|----------|
|  | Insulation Kit | 140G-G, 140MG-G<br>140G-H, 140MG-H<br>140G-I, 140MG-I<br>140G-J, 140MG-J | 1495-N87 |

## Overview

The Allen-Bradley® Enclosed 1494G Heavy Industrial Safety Disconnect Switches are designed for industrial, heavy commercial applications and for hazardous locations. These safety disconnect switches feature a lockable handle with a disconnect switch that is linked to the handle at all times. These safety disconnect switches are available with switch ratings 30...600 A. Switches are offered in fusible (accommodates Class J, R, and H fuses) and non-fusible configurations.

Other key features:

- 240V available in 2-pole, single-phase, and 3-pole, 3-phase versions.
- 600V (fusible and non-fusible) switches available in 3-pole, 3-phase versions
  - 6-pole, 3-phase only available for 600V non-fusible
- 30...100 A switch ratings in extra-capacity enclosures and 6-pole, 3-phase applications
- Standard non-metallic handle (30...200 A), metal, or stainless-steel handle optional
- Visible blade construction for safety
- Type 3R/4/12 (painted metal), Type 4/4X (stainless-steel) enclosures available
  - Non-metallic Type 4/4X enclosures offered for 600V fusible only
  - Large and Extra large enclosures available to provide extra space for user supplied components
- Options – factory-installed
- Accessories – field installed
- Handle lockable in the Off position. locking in the On position will require field modification by the end user of the handle.



Extra space for user supplied components is available for Large and extra large enclosures

## Catalog Number Explanation

Examples that are given in this section are for reference purposes. This basic explanation is not to be used for product selection; not all combinations produce a valid catalog number.

The examples that are listed represent factory-assembled kits.

1494G
– B
F
3
J
6
– 98
– 203 W
– 414

a
b
c
d
e
f
g

| a               |  |
|-----------------|--|
| Bulletin Number |  |
| Code            | Description  |
| 1494G           | Enclosed disconnect safety switch in standard-size enclosure (30...600 A)    |
| 1494GY          | Enclosed disconnect safety switch in large-size enclosure (30...200 A)       |
| 1494GX          | Enclosed disconnect safety switch in extra large-size enclosure (30...100 A) |

| b                  |             |
|--------------------|-------------|
| Switch Ratings [A] |             |
| Code               | Description |
| B                  | 30          |
| C                  | 60          |
| D                  | 100         |
| E                  | 200         |
| F                  | 400         |
| G                  | 600         |

| c              |   |
|----------------|---|
| Enclosure Type |   |
| Code           | Description   |
| F              | Type 3R/4/12: Rainproof, water-resistant, dust-tight, painted metal enclosure with screw fasteners and non-metallic handle  |
| C              | Type 4/4X: Water-resistant, corrosion-resistant, 304 stainless-steel enclosure with screw fasteners and non-metallic handle                                       |
| K              | Type 12: Hazardous location (Class II, Division 2, Group F+G and Class III Division 1 and 2) painted metal enclosure with screw fasteners and non-metallic handle |

| d     |                 |
|-------|-----------------|
| Poles |                 |
| Code  | Description     |
| 2     | 2-pole, 1-phase |
| 3     | 3-pole, 3-phase |

| e      |                    |
|--------|--------------------|
| Fusing |                    |
| Code   | Description        |
| N      | Non-fusible        |
| H      | Class H fuse clips |
| J      | Class J fuse clips |
| R      | Class R fuse clips |

| f            |                 |
|--------------|-----------------|
| Fuse Voltage |                 |
| Code         | Description     |
| Blank        | Non-fusible     |
| 2            | 240V AC/250V DC |
| 6            | 600V AC/600V DC |

| g                           |   |
|-----------------------------|---|
| Options (Factory-installed) |   |
| Code                        | Description   |
| 1S                          | Momentary push button <sup>(1)</sup> (flange-mounted)                 |
| 3                           | 3-position selector switch <sup>(1)</sup>                             |
| 3E                          | 2-position selector switch <sup>(1)</sup>                             |
| 3EI                         | 2-position selector switch (Illuminated) <sup>(1)</sup>               |
| 3S                          | 3-position selector switch (spring return) <sup>(1)</sup>             |
| 4                           | Pilot light <sup>(1)(2)</sup>   |
| 5                           | Push-to-test pilot light <sup>(1)(2)</sup>                            |
| 98                          | N.O. auxiliary – disconnect   |
| 99                          | N.C. auxiliary – disconnect   |
| 203 W                       | Viewing window  |
| 412                         | Painted metal handle  |
| 413                         | Stainless-steel handle  |
| 414                         | Protective fuse cover   |
| 420                         | 1 N.O. and 1 N.C., interlock (400 A, 600 A)                           |
| 421                         | 2 N.O. and 2 N.C., interlocks (200 A, 400 A, 600 A) <sup>(3)</sup>    |
| 422                         | Line side terminal cover (400 A, 600 A)                               |
| 423                         | 2 N.O. electrical interlock for disconnect switch (30 A, 60 A, 100 A) |
| 988                         | (2) N.O. auxiliary – disconnect                                       |
| 989                         | (1) N.O. - (1) N.C. auxiliary – disconnect                            |
| 999                         | (2) N.C. auxiliary – disconnect                                       |

(1) Specify lens color by adding one of the following letters: **R** = Red, **A** = Amber, **B** = Blue, **G** = Green.  
 (2) 3-pole enclosed switches can accommodate one pilot device. Maximum of two auxiliary switches.  
 (3) This option is not available when a 30 A, 60 A, or 100 A switch rating is selected.

## Industrial Safety Disconnect Switches – Non-fusible Type

### Standard-Size Enclosure (3-pole, 3-phase)



| Continuous Current Rating [A]<br>600V AC/250V DC | Horsepower |     |          |     |         | Cat. No.                                     |                                  |
|--|------------|-----|----------|-----|---------|--|----------------------------------|
|  | 480V AC    |     | 600V AC  |     | 250V DC | 3-pole, 3-phase                              |                                  |
|  | Standard   | Max | Standard | Max |         | Type 3R/4/12 <sup>(1)</sup><br>Painted Metal | Type 4/4X<br>304 Stainless-steel |
| 30   | 5          | 20  | 7.5      | 30  | 5       | 1494G-BF3N                                   | 1494G-BC3N                       |
| 60   | 15         | 50  | 15       | 60  | 10      | 1494G-CF3N                                   | 1494G-CC3N                       |
| 100  | 25         | 60  | 30       | 75  | 20      | 1494G-DF3N                                   | 1494G-DC3N                       |
| 200  | 50         | 125 | 60       | 150 | 40      | 1494G-EF3N                                   | 1494G-EC3N                       |
| 400  | 100        | 250 | 125      | 350 | 50      | 1494G-FF3N                                   | 1494G-FC3N                       |
| 600  | 150        | 400 | 300      | 500 | 50      | 1494G-GF3N                                   | 1494G-GC3N                       |

### Large Enclosure (3-pole, 3-phase)

| Continuous Current Rating [A]<br>600V AC/250V DC | Horsepower |     |          |     |         | Cat. No.                                     |                                  |
|--|------------|-----|----------|-----|---------|--|----------------------------------|
|  | 480V AC    |     | 600V AC  |     | 250V DC | Type 3R/4/12 <sup>(1)</sup><br>Painted Metal | Type 4/4X<br>304 Stainless-steel |
|  | Standard   | Max | Standard | Max |         | 3-pole, 3-phase                              |                                  |
| 30   | 5          | 20  | 7.5      | 30  | 5       | 1494GY-BF3N                                  | 1494GY-BC3N                      |
| 60   | 15         | 50  | 15       | 60  | 10      | 1494GY-CF3N                                  | 1494GY-CC3N                      |
| 100  | 25         | 60  | 30       | 75  | 20      | 1494GY-DF3N                                  | –                                |
| 200  | 50         | 125 | 60       | 150 | 40      | 1494GY-EF3N                                  | –                                |

### Extra Large-Size Enclosure (3-pole, 3-phase)

| Continuous Current Rating [A]<br>600V AC/250V DC | Horsepower |     |          |     |         | Cat. No.                                     |                                  |
|--|------------|-----|----------|-----|---------|--|----------------------------------|
|  | 480V AC    |     | 600V AC  |     | 250V DC | Type 3R/4/12 <sup>(1)</sup><br>Painted Metal | Type 4/4X<br>304 Stainless-steel |
|  | Standard   | Max | Standard | Max |         | 3-pole, 3-phase                              |                                  |
| 30   | 5          | 20  | 7.5      | 30  | 5       | 1494GX-BF3N                                  | 1494GX-BC3N                      |
| 60   | 15         | 50  | 15       | 60  | 10      | 1494GX-CF3N                                  | 1494GX-CC3N                      |
| 100  | 25         | 60  | 30       | 75  | 20      | 1494GX-DF3N                                  | 1494GX-DC3N                      |

(1) Type 12 hazardous location enclosure (Class II, Division 2, Group F+G and Class III, Divisions 1 and 2) can be supplied by replacing the **F** in the listed Cat. No. with the letter **K**.  
Example: **Cat. No. 1494G-BK3N**

### 600V Fusible Switches with Class J Fuse Clips

#### Standard-Size Enclosure <sup>(1)</sup> (3-pole, 3-phase)



| Continuous Current Rating [A]<br>600V AC/250V DC | Horsepower |     |          |     |         | Cat. No.                                     |                                  |
|--|------------|-----|----------|-----|---------|--|----------------------------------|
|  | 480V AC    |     | 600V AC  |     | 250V DC | Type 3R/4/12 <sup>(2)</sup><br>Painted Metal | Type 4/4X<br>304 Stainless-steel |
|  | Standard   | Max | Standard | Max |         | 3-pole, 3-phase                              |                                  |
| 30   | 5          | 15  | 7.5      | 20  | 5       | 1494G-BF3J6                                  | 1494G-BC3J6                      |
| 60   | 15         | 30  | 15       | 50  | 10      | 1494G-CF3J6                                  | 1494G-CC3J6                      |
| 100  | 25         | 60  | 30       | 75  | 20      | 1494G-DF3J6                                  | 1494G-DC3J6                      |
| 200  | 50         | 125 | 60       | 150 | 40      | 1494G-EF3J6                                  | 1494G-EC3J6                      |
| 400  | 100        | 250 | 125      | 350 | 50      | 1494G-FF3J6                                  | 1494G-FC3J6                      |
| 600  | 150        | 400 | 200      | 500 | 50      | 1494G-GF3J6                                  | 1494G-GC3J6                      |

- (1) Class R and H fuse clips can be supplied as a factory option in place of Class J clips. To order Class R fuse clips, replace **J** from the Cat. No. with **R**.  
Example: **Cat. No. 1494G-BF3J6** becomes **Cat. No. 1494G-BF3R6**. To order Class H fuse clips, replace **J** from the Cat. No. with **H**.  
Example: **Cat. No. 1494G-BF3J6** becomes **Cat. No. 1494G-BF3H6**.
- (2) Type 12 hazardous location enclosure (Class II, Division 2, Group F+G and Class III, Divisions 1 and 2) can be supplied by replacing the **F** in the listed Cat. No. with the letter **K**.  
Example: **Cat. No. 1494G-BK3J6**

#### Large-Size Enclosure <sup>(1)</sup> (3-pole, 3-phase)

| Continuous Current Rating [A]<br>600V AC/250V DC | Horsepower |     |          |     |         | Cat. No.                                     |                                  |
|--|------------|-----|----------|-----|---------|--|----------------------------------|
|  | 480V AC    |     | 600V AC  |     | 250V DC | Type 3R/4/12 <sup>(2)</sup><br>Painted Metal | Type 4/4X<br>304 Stainless-steel |
|  | Standard   | Max | Standard | Max |         | 3-pole, 3-phase                              |                                  |
| 30   | 5          | 15  | 7.5      | 20  | 5       | 1494GY-BF3J6                                 | 1494GY-BC3J6                     |
| 60   | 15         | 30  | 15       | 50  | 10      | 1494GY-CF3J6                                 | 1494GY-CC3J6                     |
| 100  | 25         | 60  | 30       | 75  | 20      | 1494GY-DF3J6                                 | —                                |
| 200  | 50         | 125 | 60       | 150 | 40      | 1494GY-EF3J6                                 | —                                |

- (1) Class R and H fuse clips can be supplied as a factory option in place of Class J clips. To order Class R fuse clips, replace **J** from the Cat. No. with **R**.  
Example: **Cat. No. 1494GY-BF3J6** becomes **Cat. No. 1494GY-BF3R6**. To order Class H fuse clips, replace **J** from the Cat. No. with **H**.  
Example: **Cat. No. 1494GY-BF3J6** becomes **1494GY-BF3H6**.
- (2) Type 12 hazardous location enclosure (Class II, Division 2, Group F+G and Class III, Divisions 1 and 2) can be supplied by replacing the **F** in the listed Cat. No. with the letter **K**.  
Example: **Cat. No. 1494G-BK3J6**.

#### Extra Large-Size Enclosure <sup>(1)</sup> (3-pole, 3-phase)

| Continuous Current Rating [A]<br>600V AC/250V DC | Horsepower |     |          |     |         | Cat. No.                                     |                                  |
|--|------------|-----|----------|-----|---------|--|----------------------------------|
|  | 480V AC    |     | 600V AC  |     | 250V DC | Type 3R/4/12 <sup>(2)</sup><br>Painted Metal | Type 4/4X<br>304 Stainless-steel |
|  | Standard   | Max | Standard | Max |         | 3-pole, 3-phase                              |                                  |
| 30   | 5          | 15  | 7.5      | 20  | 5       | 1494GX-BF3J6                                 | 1494GX-BC3J6                     |
| 60   | 15         | 30  | 15       | 50  | 10      | 1494GX-CF3J6                                 | 1494GX-CC3J6                     |
| 100  | 25         | 60  | 30       | 75  | 20      | 1494GX-DF3J6                                 | 1494GX-DC3J6                     |

- (1) Class R and H fuse clips can be supplied as a factory option in place of Class J clips. To order Class R fuse clips, replace **J** from the Cat. No. with **R**.  
Example: **Cat. No. 1494GX-BF3J6** becomes **1494GX-BF3R6**. To order Class H fuse clips, replace **J** from the Cat. No. with **H**.  
Example: **Cat. No. 1494GX-BF3J6** becomes **1494GX-BF3H6**.
- (2) Type 12 hazardous location enclosure (Class II, Division 2, Group F+G and Class III, Divisions 1 and 2) can be supplied by replacing the **F** in the listed Cat. No. with the letter **K**.  
Example: **Cat. No. 1494G-BK3J6**

## Product Selection

### Industrial Safety Disconnect Switches – Fusible non-fusible Type

#### 240V Fusible Switches with Class H Fuse Clips



#### Standard-Size Enclosure<sup>(1)</sup> (240V, 2-pole, 1-phase/3-pole, 3-phase)

| Continuous Current Rating [A]<br>600V AC/250V DC | Horsepower      |     |                 |     |         | Cat. No.                                  |                 |                               |                 |
|--|-----------------|-----|-----------------|-----|---------|---|-----------------|-------------------------------|-----------------|
|  | 240V AC 1-phase |     | 240V AC 3-phase |     | 250V DC | Type 3R/4/12 <sup>(2)</sup> Painted Metal |                 | Type 4/4X 304 Stainless-steel |                 |
|  | Standard        | Max | Standard        | Max |         | 2-pole, 1-phase                           | 3-pole, 3-phase | 2-pole, 1-phase               | 3-pole, 3-phase |
| 30   | 1.5             | 3   | 3               | 7.5 | 5       | 1494G-BF2H2                               | 1494G-BF3H2     | 1494G-BC2H2                   | 1494G-BC3H2     |
| 60   | 3               | 10  | 7.5             | 15  | 10      | 1494G-CF2H2                               | 1494G-CF3H2     | 1494G-CC2H2                   | 1494G-CC3H2     |
| 100  | 7.5             | 15  | 15              | 30  | 20      | 1494G-DF2H2                               | 1494G-DF3H2     | 1494G-DC2H2                   | 1494G-DC3H2     |
| 200  | 15              | 15  | 25              | 60  | 40      | 1494G-EF2H2                               | 1494G-EF3H2     | 1494G-EC2H2                   | 1494G-EC3H2     |
| 400  | –               | –   | 50              | 125 | 50      | –   | 1494G-FF3H2     | –                             | 1494G-FC3H2     |
| 600  | –               | –   | 75              | 200 | 60      | –   | 1494G-GF3H2     | –                             | 1494G-GC3H2     |

#### Large-Size Enclosure<sup>(1)</sup> (240V, 2-pole, 1-phase/3-pole, 3-phase)

| Continuous Current Rating [A]<br>600V AC/250V DC | Horsepower      |     |                 |     |         | Cat. No.                                  |                 |                               |                 |
|--|-----------------|-----|-----------------|-----|---------|---|-----------------|-------------------------------|-----------------|
|  | 240V AC 1-phase |     | 240V AC 3-phase |     | 250V DC | Type 3R/4/12 <sup>(2)</sup> Painted Metal |                 | Type 4/4X 304 Stainless-steel |                 |
|  | Standard        | Max | Standard        | Max |         | 2-pole, 1-phase                           | 3-pole, 3-phase | 2-pole, 1-phase               | 3-pole, 3-phase |
| 30   | 1.5             | 3   | 3               | 7.5 | 5       | 1494GY-BF2H2                              | 1494GY-BF3H2    | 1494GY-BC2H2                  | 1494GY-BC3H2    |
| 60   | 3               | 10  | 7.5             | 15  | 10      | 1494GY-CF2H2                              | 1494GY-CF3H2    | 1494GY-CC2H2                  | 1494GY-CC3H2    |
| 100  | 7.5             | 15  | 15              | 30  | 20      | 1494GY-DF2H2                              | 1494GY-DF3H2    | –                             | –               |
| 200  | 15              | 15  | 25              | 60  | 40      | 1494GY-EF2H2                              | 1494GY-EF3H2    | –                             | –               |

#### Extra Large-Size Enclosure<sup>(1)</sup> (240V, 2-pole, 1-phase/3-pole, 3-phase)

| Continuous Current Rating [A]<br>600V AC/250V DC | Horsepower      |     |                 |     |         | Cat. No.                                  |                 |                               |                 |
|--|-----------------|-----|-----------------|-----|---------|---|-----------------|-------------------------------|-----------------|
|  | 240V AC 1-phase |     | 240V AC 3-phase |     | 250V DC | Type 3R/4/12 <sup>(2)</sup> Painted Metal |                 | Type 4/4X 304 Stainless-steel |                 |
|  | Standard        | Max | Standard        | Max |         | 2-pole, 1-phase                           | 3-pole, 3-phase | 2-pole, 1-phase               | 3-pole, 3-phase |
| 30   | 1.5             | 3   | 3               | 7.5 | 5       | 1494GX-BF2H2                              | 1494GX-BF3H2    | 1494GX-BC2H2                  | 1494GX-BC3H2    |
| 60   | 3               | 10  | 7.5             | 15  | 10      | 1494GX-CF2H2                              | 1494GX-CF3H2    | 1494GX-CC2H2                  | 1494GX-CC3H2    |
| 100  | 7.5             | 15  | 15              | 30  | 20      | 1494GX-DF2H2                              | 1494GX-DF3H2    | 1494GX-DC2H2                  | 1494GX-DC3H2    |

(1) Class R fuse clips can be supplied as a factory option in place of Class H clips. To order Class R fuse clips, replace H from the Cat. No. with R.

Example: Cat. No. **1494G-BF2H2** becomes **1494G-BF2R2**.

(2) Type 12 hazardous location enclosure (Class II, Division 2, Group F+G and Class III, Divisions 1 and 2) can be supplied by replacing the F in the listed Cat. No. with the letter K.

Example: Cat. No. **1494G-BK2H2**

## Modifications

To configure your product, add the Suffix Code to your Catalog Number to include the modifications listed.

### Bulletin 1494G/GX/GY Modifications

| Description  | Enclosure Type   | Suffix Code          | Switch Rating [A] |    |     |     |          |     |
|--|--|----------------------|-------------------|----|-----|-----|----------|-----|
|  |  |                      | 30                | 60 | 100 | 200 | 400      | 600 |
| Momentary Push Button (1 N.O.) (located on enclosure flange) | 3R/4/12 painted metal,<br>4/4X stainless-steel                       | -1S <sup>(1)</sup>   | Available Option  |    |     |     |          |     |
| HAND-OFF-AUTO Selector Switch                                |  | -3 <sup>(1)</sup>    |                   |    |     |     |          |     |
| 3-position Selector Switch                                   |  | -3S <sup>(1)</sup>   |                   |    |     |     |          |     |
| 2-position Selector Switch                                   |  | -3E <sup>(1)</sup>   |                   |    |     |     |          |     |
| 2-position Illuminated Selector Switch                       |  | -3EI <sup>(1)</sup>  |                   |    |     |     |          |     |
| Pilot Light  |  | -4 <sup>(1)(2)</sup> |                   |    |     |     |          |     |
| Push-to-test Pilot Light                                     |  | 5 <sup>(1)(2)</sup>  |                   |    |     |     |          |     |
| Auxiliary Contact (1 N.O.)                                   | 3R/4/12 painted metal,<br>4/4X stainless-steel,<br>4/4X non-metallic | -98 <sup>(3)</sup>   | Available Option  |    |     |     |          |     |
| Auxiliary Contact (1 N.C.)                                   |  | -99 <sup>(3)</sup>   |                   |    |     |     |          |     |
| Enclosure Door Viewing Window                                | 3R/4/12 painted metal,<br>4/4X stainless-steel                       | -203W                | Available Option  |    |     |     |          |     |
| Painted Metal Handle   | 3R/4/12 painted metal  | -412 <sup>(4)</sup>  | Available Option  |    |     |     | Standard |     |
| Stainless-steel Handle                                       | 4/4X stainless-steel   | -413 <sup>(4)</sup>  | Available Option  |    |     |     |          |     |
| Protective Fuse Cover with Door (transparent)                | 3R/4/12 painted metal,<br>4/4X stainless-steel                       | -414                 | Available Option  |    |     |     |          |     |
| Electrical Interlock - Early Break (1 N.O. and 1 N.C.)       |  | -420                 |                   |    |     |     |          |     |
| Electrical Interlock - Early Break (2 N.O. and 2 N.C.)       |  | -421                 |                   |    |     |     |          |     |
| Protective Line Side Cover (transparent)                     |  | -422                 |                   |    |     |     |          |     |

(1) 3 pole enclosed switches can accommodate (1) pilot device.

(2) Specify lens color by adding one of the following letters: **R** = Red, **G** = Green, **A** = Amber, **B** = Blue

(3) Maximum of (2) auxiliary contacts.

(4) Non-metallic handle is standard (30...200 A). For painted metal handle, select suffix code **-412**. For stainless-steel handle, select suffix code **-413**.

## Accessories

### Auxiliary Contacts and Electrical Interlocks

|  | Description   | Contacts  | Disconnect Switch Size [A] | Cat. No. |               |                   |
|--|---|---|----------------------------|----------|---------------|-------------------|
| <b>Auxiliary Contact</b>   |    | • Indicates ON/OFF status of Bulletin 1494U   | 1 N.O.                     | 30...200 | 1494U-NOLV    |                   |
|  |   | • Duplicates position of switch blades  | 1 N.C.                     | 30...200 | 1494U-NCLV    |                   |
|  | • QuadConnect™ contact  | • 2.5 A   | • C300, R150               | 1 N.O.   | 30...200      | 1494U-NO          |
|  |   |   |                            | 1 N.C.   | 30...200      | 1494U-NC          |
|  |   |   |                            | 1 N.O.   | 400           | 1495-N8           |
|  |   |   |                            | 1 N.O.   | 400           | 1495-N8X          |
|  |   |   |                            | 1 N.C.   | 400           | 1495-N9X          |
|  |   |   |                            | 1 N.C.   | 400           | 1495-N9           |
|  |   |   |                            | 1 N.O.   | 600           | 595-A             |
|  |   |   |                            | 1 N.C.   | 600           | 595-B             |
| <b>Contact Adapter Kit (1)</b>   |    | • One adapter kit required per auxiliary contact  | –                          | 600      | 595-N1        |                   |
| <b>Electrical Interlock (2)</b>  |   | • Removes system voltage from electronics to help prevent damage by transient voltage that is caused by opening the switch  | 2 N.O.                     | 30...100 | 1494U-AE      |                   |
|  |   | • Early break   | 1 N.O. and 1 N.C.          | 400      | 1495-N43      |                   |
|  |   | • 10 A  |                            |          |               |                   |
|  |   | • 250V AC/DC  |                            |          |               |                   |
|  |   | • Removes system voltage from electronics to help prevent damage by transient voltage that is caused by opening the switch  |                            |          |               | 1 N.O. and 1 N.C. |
|  |   | • Early break   | 2 N.O. and 2 N.C.          | 400      | 1495-N44      |                   |
| • Right-hand mechanism   | 2 N.O. and 2 N.C.   | 600   | 1495-N35                   |          |               |                   |
| • Removes system voltage from electronics to help prevent damage by transient voltage that is caused by opening the switch | 2 N.O. and 2 N.C.   | 200   | 1494U-AE200                |          |               |                   |
| • Early break  |   |   |                            |          |               |                   |
| • Standard contact   |   |   |                            |          |               |                   |
| <b>Control Voltage Taps</b>  |  | • 2 per package   | –                          | 30...100 | 1494U-ALT31   |                   |
|  |   |   |                            | 200      | 1494U-ALT200  |                   |
|  |   |   |                            | 400      | 1494R-N19 (4) |                   |
|  |   |   |                            | 600      | 1494U-ALT600  |                   |
| <b>Defeater Bracket Extension Kit</b>  |  | • For use with operating handles that do not align properly with the door catch or door hardware on enclosures with a rolled lip flange construction.                         | –                          | 30...200 | 1494V-H12     |                   |
| <b>Channel Support Kit</b>   |  | • For use to prevent flexing of the operating handle mounting surface. This is especially useful when the operating handle is mounted on a channel in a multi-door enclosure. | –                          | 30...200 | 1494V-H15     |                   |

(1) One adapter kit is required per auxiliary contact.

(2) Not configurable; must be purchased individually.

(3) An additional adapter kit, Cat. No. 1495-N36, is required for installation.

(4) For 1494R-N19, 6 pieces per package.

**Lug Connectors (3 per package) – Provided as standard on all enclosed 1494G switches**



| Disconnect Size [A] | Wire Size                     | Cat. No. <sup>(1)</sup>  |
|---------------------|-------------------------------|--------------------------|
| 30...60             | 14...2 Cu                     | 1494U-LA36               |
|                     | 12...2 Al                     |                          |
|                     | (2) 14...10 Cu <sup>(2)</sup> |                          |
|                     | (2) 12...10 Al <sup>(2)</sup> |                          |
| 100                 | 14...1/0 Cu                   | 1494U-LA100              |
|                     | 12...4 Al                     |                          |
|                     | (2) 12...4 Cu-Al              |                          |
| 200                 | 6...250 MCM Cu-Al             | 1494U-LA200              |
| 400                 | (2) 6...300 MCM Cu-Al         | 1494U-LA400              |
| 600                 | (2) 1/0...500 MCM Cu-Al       | 1494U-LA600              |
|                     | (2) 1/0...350 MCM Cu          | 1494R-N11 <sup>(3)</sup> |

- (1) Package quantity 3.
- (2) Wire pairs must be consistent type, strand and wire size.
- (3) Supplied load side on the H/R fuse block.

**Ground Connectors and Ground Lug Kits – Provided as standard on all enclosed 1494G switches**



| Description       | Disconnect Size [A] | Wire Size         | For Use With              | Cat. No. |
|-------------------|---------------------|-------------------|---------------------------|----------|
| Ground Connectors | –                   |                   | 1494G Disconnect Switches | 599-GR1  |
| Ground Lug Kits   | 30...60 A           | #14...4 AWG Wire  | 1494G Disconnect Switches | 599-GR1  |
|                   | 100...200 A         | #8...1/0 AWG Wire |                           | 599-GR2  |
|                   | 400 A               | #6...250 MCM      |                           | X-320451 |
|                   | 600 A None-fused    |                   |                           | X-320451 |
|                   | 600 A Fused         |                   |                           | 599-GR3  |
|                   | 600 A               |                   |                           | 599-GR3  |

**Phase Barrier Kits – Provided as standard on all 1494G enclosed switches**

| Disconnect Size [A] | For Use With              | Cat. No.  |
|---------------------|---------------------------|-----------|
| 30, 60              | 1494G Disconnect Switches | 1494F-PH2 |
| 100                 |                           | 1494F-PH3 |
| 200                 |                           | 1494F-PH4 |
| 400                 |                           | 1494F-PH5 |

## Fuse Clips (6 per package) provided as standard on all 1494G enclosed switches



1401-N42  
(Spring Type Fuse Clip)

| Fuse Class | Fuse Clip Rating   |                    | Cat. No. <sup>(1)</sup>     |
|------------|--------------------|--------------------|-----------------------------|
|            | 250V               | 600V               |                             |
| H          | 30                 | —                  | 1494U-FC302J                |
|            | 60                 | 30                 | 1494U-FC30J                 |
|            | —                  | 60                 | 1494U-FC60J                 |
|            | 100                | 100                | 1494U-FC100J                |
|            | 200                | 200                | 1401-N45                    |
|            | 400                | 400                | 1401-N46                    |
|            | 600                | 600 <sup>(4)</sup> | —                           |
| J          | ...                | 30                 | 1494U-FC30J                 |
|            |                    | 60                 | 1494U-FC60J                 |
|            |                    | 100                | 1494U-FC100J <sup>(2)</sup> |
|            |                    | 200                | 1401-N45 <sup>(2)</sup>     |
|            |                    | 400                | 1401-N46 <sup>(2)</sup>     |
|            |                    | 600 <sup>(3)</sup> | —                           |
| R          | 30                 | —                  | 1494U-FC302R                |
|            | 60                 | 30                 | 1494U-FC30R                 |
|            | —                  | 60                 | 1494U-FC60R                 |
|            | 100                | 100                | 1494U-FC100R                |
|            | 200                | 200                | 1401-N54                    |
|            | 400                | 400                | 1401-N55                    |
|            | 600 <sup>(4)</sup> | 600 <sup>(4)</sup> | —                           |

(1) Six clips and mounting hardware are included per kit.

(2) Fuse clips are not required when bolted to a terminal.

(3) For Class J 600 amp fuse clips: Class J 600A fuses bolt directly to 600A 1494V-DS600 switch and 1494V-FS600 fuse block with supplied mounting hardware (no clips required).

(4) Included with Bulletin 1491 separately mounted fuse blocks - catalog numbers 1491-N621 (Class H) and 1491-R621 (Class R) fuse blocks.

Fuse Covers

| Product   | Disconnect Switch Size [A] | Fuse Class  | Fuse Clip Rating |              | Use with Fuse Clips    | Cat. No.                |                               |
|---|----------------------------|-------------|------------------|--------------|------------------------|-------------------------|-------------------------------|
|   |                            |             | 250V             | 600V         |                        | Fuse Cover              | IP20 and IP1XB Fuse Cover     |
|    | 30, 60, 100                | Non-fusible | –                | –            | –                      | 1494U-PC1               | 1494U-PC2-IP20 <sup>(1)</sup> |
|   | 30                         | H, J        | 30               | –            | 1494U-FC302J           |                         |                               |
|   | 30                         | R           | 30               | –            | 1494U-FC302R           |                         |                               |
|   | 30                         | H, J        | –                | 30           | 1494U-FC30J            |                         |                               |
|   | 60                         | H, J        | –                | 60           | 1494U-FC60J            | 1494U-PC2               | 1494U-PC2-IP20 <sup>(1)</sup> |
|   | 100                        | H, J        | –                | 100          | 1494U-FC100J           |                         |                               |
|   | 30                         | R           | –                | 30           | 1494U-FC30R            |                         |                               |
|   | 60                         | R           | –                | 60           | 1494U-FC60R            |                         |                               |
| 100   | R                          | –           | 100              | 1494U-FC100R |                        |                         |                               |
|    | 200                        | H, J        | 200              | 200          | 1401-N45               | 1494U-PC200             | 1494U-PC200-IP20              |
|   |                            | R           | 200              | 200          | 1401-N54               | 1494U-PC200             | 1494U-PC200-IP20              |
|   | 400                        | H, J        | 400              | 400          | 1401-N46               | 1494U-PC400             | 1494U-PC400-IP1XB             |
|   |                            | R           | 400              | 400          | 1401-N55               |                         |                               |
|  | 600                        | Non-fusible | –                | –            | –                      | 1495-N61                | –                             |
|   |                            | H, J        | 400              | 400          | 1401-N46               |                         |                               |
|   |                            | R           | 400              | 400          | 1401-N55               |                         |                               |
|   |                            | J           | 600              | 600          | – <sup>(2)</sup>       |                         |                               |
|   |                            | H, R        | 600              | 600          | 1491-R621<br>1491-N621 | 1495-N69 <sup>(3)</sup> | –                             |

(1) For use with fused disconnects or non-fused is a larger enclosure.  
 (2) Fuse clips are not required when bolted to the terminals.  
 (3) For use with separately mounted fuse blocks. See publication [1495-IN012](#).

# Specifications

## 1494G Disconnect Switches

| <b>Disconnect Switch Electrical Ratings</b>                   |   |   |     |                                      |     |     |     |     |
|---|---|---|-----|--------------------------------------|-----|-----|-----|-----|
| Switch Size   |   | 30  | 60  | 100                                  | 200 | 400 | 600 |     |
| Rated insulation voltage $U_i$ (UL) IEC                       |   | (600) 660V  |     |                                      |     |     |     |     |
| Ratings UL/CSA/NEMA   | Hp  | 230V/60 Hz  | 7.5 | 15                                   | 30  | 60  | 125 | 200 |
|   |   | 460V/60 Hz  | 15  | 30                                   | 60  | 125 | 250 | 400 |
|   |   | 575V/60 Hz  | 20  | 50                                   | 75  | 150 | 350 | 500 |
|   |   | 250V DC   | 5   | 10                                   | 20  | 40  | 50  | 50  |
|   | Continuous Current                                      | 600V AC   | 30  | 60                                   | 100 | 200 | 400 | 600 |
| 250V AC   |   |   |     |                                      |     |     |     |     |
| Ratings IEC Applications                                      | Maximum kW (AC23)                                       | 220V/50 Hz  | 5.5 | 11                                   | 22  | 48  | 90  | 150 |
|   |   | 440V/50 Hz  | 11  | 22                                   | 45  | 90  | 185 | 295 |
|   |   | 550V/50 Hz  | 15  | 37                                   | 55  | 110 | 257 | 375 |
| Conductor Size (mm <sup>2</sup> )                             | 30...60 A   | 14...2 Cu / 12...2 Al   |     |                                      |     |     |     |     |
|   |   | (2) 14...10 Cu / 12...10 Al <sup>(1)</sup>  |     |                                      |     |     |     |     |
|   | 100 A   | 14...1/0 Cu / 12...4 Al / (2) 12...4 Cu - Al  |     |                                      |     |     |     |     |
|   | 200 A   | 6...250 MCM Cu-Al   |     |                                      |     |     |     |     |
|   | 400 A   | (2) 6...300 MCM Cu -Al  |     |                                      |     |     |     |     |
| 600 A   | (2) 1/0 500 MCM Cu-Al <sup>(2)</sup> (2) 1/0 350 MCM Cu |   |     |                                      |     |     |     |     |
| Recommended Torque  |   | <b>Conductor into Lug [lb-in (N-m)]</b>   |     | <b>Lug to Terminal [lb-in (N-m)]</b> |     |     |     |     |
|   | 30 A  | 20...25 (2.3...2.8)   |     | 20...2.5 (4.5...6.8)                 |     |     |     |     |
|   | 60 A  | 45...50 (5.1...5.6)   |     | 40...60 (4.5...6.8)                  |     |     |     |     |
|   | 100 A   | 150...165 (16.9...18.6)   |     | 90...110 (4.5...6.8)                 |     |     |     |     |
|   | 200 A   | 275...305 (31.1...34.5)   |     | 175...200 (20...23)                  |     |     |     |     |
|   | 400 A   | 275...305 (31.1...34.5)   |     | 175...200 (20...23)                  |     |     |     |     |
|   | 600 A   | 275...305 (31.1...34.5)   |     | 175...200 (20...23)                  |     |     |     |     |
| <b>Auxiliary Contact Electrical Ratings<sup>(3) (4)</sup></b> |   |   |     |                                      |     |     |     |     |
| Standard Contact 1 N.O. or 1 N.C.                             | NEMA/EEMAC  | A600, Q600  |     |                                      |     |     |     |     |
|   | IEC   | AC 15, DC 13 to IEC/EN60947-5-1 and UL 508, 17V, 5 mA minimum                                 |     |                                      |     |     |     |     |
| Low-level Contact 1 N.O. or 1 N.C.                            | NEMA/EEMAC  | C300, R150  |     |                                      |     |     |     |     |
|   | IEC   | AC 15, DC 13 to IEC/EN60947-5-1 and UL 508, 5V, 1 mA minimum                                  |     |                                      |     |     |     |     |
| <b>Mechanical</b>   |   |   |     |                                      |     |     |     |     |
| Degree of protection  | Operating Handles                                       | Non-metallic Type 1, 3R, 4, 4X, 12<br>Painted Type 1, 3R, 4, 12<br>Stainless-steel Type 4, 4X |     |                                      |     |     |     |     |
| Mechanical life (Typical)                                     |   | 20,000 operations (30...200 A)<br>10,000 operations (400...600 A)                             |     |                                      |     |     |     |     |
| Switching frequency (operations/hr)                           |   | 30, 60, 100, and 200 A sizes – 300 max.<br>400 and 600 A sizes – 240 max                      |     |                                      |     |     |     |     |
| <b>Environment Specifications</b>                             |   |   |     |                                      |     |     |     |     |
| Temperature   | Operating   | -35...+40 °C (-31...+104 °F)  |     |                                      |     |     |     |     |
|   | Storage   | -40...+65 °C (-40...+149 °F)  |     |                                      |     |     |     |     |
| Altitude (per IEC 947-5)                                      |   | 2000 m (6561.7 ft) per IED 337-1  |     |                                      |     |     |     |     |
| Relative Humidity (per IEC 947-3)                             |   | 90% at +20 °C (+68 °F) and 50% at +40 °C (+104 °F)  |     |                                      |     |     |     |     |
| <b>Design Specification/Test Requirements</b>                 |   |   |     |                                      |     |     |     |     |
| Dialectic strength  |   | 2200V for 1 minute  |     |                                      |     |     |     |     |
| Electrical life   |   | 6000 operations at rated current  |     |                                      |     |     |     |     |
| Short Circuit Withstand Capability                            |   | 10,000 A: unfused<br>10,000 A: with Class H fuses<br>200,000 A: with class J or Class R fuses |     |                                      |     |     |     |     |
| <b>Construction</b>   |   |   |     |                                      |     |     |     |     |
| Switch body material  |   | Glass filled thermoplastic  |     |                                      |     |     |     |     |
| Contact material  |   | Copper, tin-plated  |     |                                      |     |     |     |     |

**1494G Disconnect Switches (Continued)**

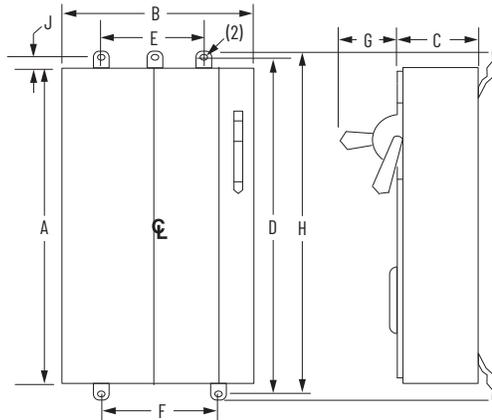
| <b>Disconnect Switch Electrical Ratings</b>  |               |              |
|--|---------------|--------------|
| Mounting Bus thread Size   | 30 A...100 A  | #12 - 24 UNC |
|  | 200 A...400 A | 3/8 - 24 UNF |
|  | 600 A         | 1/2 - 13 UNC |
| All wire rated +75 °C (+167 °F) or higher must be sized per the local Electric Code for +75 °C (+167 °F) wire. |               |              |

- (1) Wire pairs must be consistent in type, strand, and wire size.
- (2) Supplied load side on the H/R fuseblock.
- (3) The rating for 1 N.O., 200 A is B600.
- (4) For contact ratings refer to [NEMA Ratings and Test Values for auxiliary contacts on page 69](#).

## Approximate Dimensions

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

### Type 3R/4/12 (Enclosure Code "F" Painted Metal Enclosures)

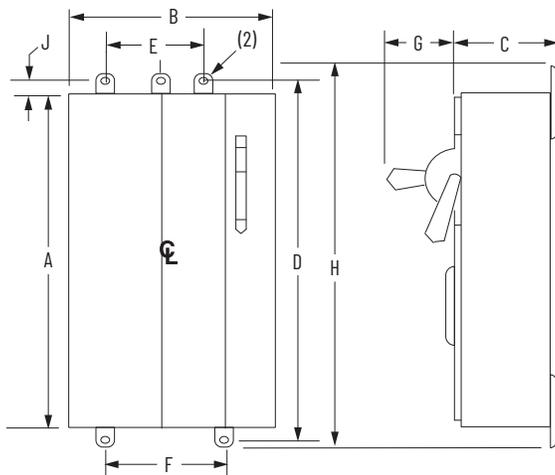


| Size [A] | Fuse Style (1) | Number of Poles | Bulletin No. | Height (A)      | Width (B)       | Depth (C)        | Mounting          |              |                | Handle Depth (G) | H                 | J          | Approx. Shipping Weight |
|----------|----------------|-----------------|--------------|-----------------|-----------------|------------------|-------------------|--------------|----------------|------------------|-------------------|------------|-------------------------|
|          |                |                 |              |                 |                 |                  | (D)               | (E)          | (F)            |                  |                   |            |                         |
| 30       | A              | 2 or 3          | 1494G        | 13-23/32 (348)  | 10-1/2 (266.70) | 8-1/4 (209.55)   | 14-11/16 (373.06) | (2)          | 5-1/4 (133.35) | 5-1/2 (140)      | 15-21/32 (397.67) | 5/8 (16)   | 20 lb (9.07 kg)         |
| 60       |                |                 |              | 20 15/32 (520)  | 10-1/2 (266.70) | 10 (254)         | 21-7/16 (544.51)  | (2)          | 5-1/4 (133.35) | 5-1/2 (140)      | 22-13/32 (569.04) | 5/8 (16)   | 30 lb (13.6 kg)         |
| 30       | B              | 2 or 3          | 1494G        | 20 15/32 (520)  | 10-1/2 (266.70) | 10 (254)         | 21-7/16 (544.51)  | (2)          | 5-1/4 (133.35) | 5-1/2 (140)      | 22-13/32 (569.04) | 5/8 (16)   | 30 lb (13.6 kg)         |
| 60       |                |                 |              | 20 15/32 (520)  | 10-1/2 (266.70) | 10 (254)         | 21-7/16 (544.51)  | (2)          | 5-1/4 (133.35) | 5-9/16 (141.29)  | 22-13/32 (569.04) | 5/8 (16)   | 60 lb (27.21 kg)        |
| 100      | A              | 2 or 3          | 1494G        | 20 (508.00)     | 10-1/2 (266.70) | 10-3/16 (258.76) | 21-7/16 (544.51)  | (2)          | 5-1/4 (133.35) | 5-9/16 (141.29)  | 22-13/32 (569.04) | 5/8 (16)   | 60 lb (27.21 kg)        |
| 30       | A              | 2 or 3          | 1494GY       | 27-29/32 (709)  | 10-1/2 (267)    | 8-9/32 (210)     | 28-7/8 (733.43)   | (2)          | 5-1/4 (133)    | 5-1/2 (140)      | 29-27/32 (758)    | 5/8 (16)   | 60 lb (27.21 kg)        |
|          | B              |                 |              | 27-29/32 (709)  | 10-1/2 (267)    | 8-9/32 (210)     | 28-7/8 (733.43)   | (2)          | 5-1/4 (133)    | 5-1/2 (140)      | 29-27/32 (758)    | 5/8 (16)   | 60 lb (27.21 kg)        |
| 60       | A              | 2 or 3          | 1494GY       | 27-29/32 (709)  | 10-1/2 (267)    | 8-9/32 (210)     | 28-7/8 (733.43)   | (2)          | 5-1/4 (133)    | 5-1/2 (140)      | 29-27/32 (758)    | 5/8 (16)   | 60 lb (27.21 kg)        |
|          | B              |                 |              | 27-29/32 (709)  | 10-1/2 (267)    | 8-9/32 (210)     | 28-7/8 (733.43)   | (2)          | 5-1/4 (133)    | 5-1/2 (140)      | 29-27/32 (758)    | 5/8 (16)   | 60 lb (27.21 kg)        |
| 30       | A              | 2 or 3          | 1494GX       | 30-13/32 (772)  | 20-1/2 (521)    | 9-19/32 (244)    | 31-3/8 (797)      | 15-1/4 (387) | 15-1/4 (387)   | 5-1/2 (140)      | 32-11/32 (822)    | 19/32 (15) | 90 lb (40.28kg)         |
|          | B              |                 |              | 30-13/32 (772)  | 20-1/2 (521)    | 9-19/32 (244)    | 31-3/8 (797)      | 15-1/4 (387) | 15-1/4 (387)   | 5-1/2 (140)      | 32-11/32 (822)    | 19/32 (15) | 90 lb (40.28kg)         |
| 60       | A              | 2 or 3          | 1494GX       | 30-13/32 (772)  | 20-1/2 (521)    | 9-19/32 (244)    | 31-3/8 (797)      | 15-1/4 (387) | 15-1/4 (387)   | 5-1/2 (140)      | 32-11/32 (822)    | 19/32 (15) | 90 lb (40.28kg)         |
|          | B              |                 |              | 30-13/32 (772)  | 20-1/2 (521)    | 9-19/32 (244)    | 31-3/8 (797)      | 15-1/4 (387) | 15-1/4 (387)   | 5-1/2 (140)      | 32-11/32 (822)    | 19/32 (15) | 90 lb (40.28kg)         |
| 100      | A              | 2 or 3          | 1494GY       | 30-13/32 (772)  | 20-1/2 (521)    | 9-19/32 (244)    | 31-3/8 (797)      | 15-1/4 (387) | 15-1/4 (387)   | 5-1/2 (140)      | 32-11/32 (822)    | 19/32 (15) | 90 lb (40.28kg)         |
|          | B              |                 |              | 30-13/32 (772)  | 20-1/2 (521)    | 9-19/32 (244)    | 31-3/8 (797)      | 15-1/4 (387) | 15-1/4 (387)   | 5-1/2 (140)      | 32-11/32 (822)    | 19/32 (15) | 90 lb (40.28kg)         |
| 100      | B              | 2 or 3          | 1494G        | 31-15/16 (811)  | 10-1/2 (267)    | 9-9/16 (243)     | 32-7/8 (835)      | (2)          | 5-1/4 (133)    | 5-1/2 (140)      | 33-27/32 (860)    | 5/8 (16)   | 70 (31.73)              |
| 200      | A              | 2 or 3          | 1494G        | 31-15/16 (811)  | 10-1/2 (267)    | 9-9/16 (243)     | 32-7/8 (835)      | (2)          | 5-1/4 (133)    | 5-1/2 (140)      | 33-27/32 (860)    | 5/8 (16)   | 70 (31.73)              |
|          | B              |                 |              | 31-15/16 (811)  | 10-1/2 (267)    | 9-9/16 (243)     | 32-7/8 (835)      | (2)          | 5-1/4 (133)    | 5-1/2 (140)      | 33-27/32 (860)    | 5/8 (16)   | 70 (31.73)              |
| 100      | A              | 2 or 3          | 1494GX       | 50-13/23 (1280) | 22 (559)        | 11 (279)         | 51-3/8 (1305)     | 15-1/4 (387) | 15-1/4 (387)   | 5-1/2 (140)      | 52-11/32 (1330)   | 19/32 (15) | 200 lb (90.7 kg)        |
|          | B              |                 |              |                 |                 |                  |                   |              |                |                  |                   |            |                         |
| 200      | A              | 2 or 3          | 1494GY       | 50-13/23 (1280) | 22 (559)        | 11 (279)         | 51-3/8 (1305)     | 15-1/4 (387) | 15-1/4 (387)   | 5-1/2 (140)      | 52-11/32 (1330)   | 19/32 (15) | 200 lb (90.7 kg)        |
|          | B              |                 |              |                 |                 |                  |                   |              |                |                  |                   |            |                         |
| 400      | A              | 2 or 3          | 1494G        | 50-13/23 (1280) | 22 (559)        | 11 (279)         | 51-3/8 (1305)     | 15-1/4 (387) | 15-1/4 (387)   | 8-5/32 (2077)    | 52-11/32 (1320)   | 5/8 (16)   | 200 lb (90.7 kg)        |
| 600      |                |                 |              |                 |                 |                  |                   |              |                | 8 (203)          | 85-19/32 (1488)   | 3/4 (19)   | 300 lb (136.05 kg)      |
| 400      | B              | 2 or 3          | 1494G        | 56 (1422)       | 30-1/2 (775)    | 13-21/32 (345)   | 57-5/8 (1464)     | 20 (508)     | 25-1/4 (641)   | 8 (203)          | 85-19/32 (1488)   | 3/4 (19)   | 300 lb (136.05 kg)      |
|          |                |                 |              |                 |                 |                  |                   |              |                |                  |                   |            |                         |

(1) A = Non-fusible, Fusible 250V – Class H/R, Fusible 600V – Class J; B = Fusible 600V – Class H/R.

(2) These enclosures have one top mounting hole that is located on the center line. All other enclosures have two top mounting holes that are located as shown.

**Type 4/4X (Enclosure Code “C”) Stainless-steel Enclosures**



| Size [A] | Fuse Style (1) | Number of Poles | Bulletin No. | Height (A)    | Width (B)    | Depth (C)      | Mounting       |                 |              | Handle Depth (G) | H              | J           | Approx. Shipping Weight |
|----------|----------------|-----------------|--------------|---------------|--------------|----------------|----------------|-----------------|--------------|------------------|----------------|-------------|-------------------------|
|          |                |                 |              |               |              |                | (D)            | (E)             | (F)          |                  |                |             |                         |
| 30       | A              | 2 or 3          | 1494G        | 13-5/16 (338) | 10-1/2 (267) | 8-5/16 (211)   | 14-11/16 (373) | (2)             | 5-1/4 (133)  | 5-9/16 (142)     | 15-17/32 (395) | 13/16 (21)  | 20 lb (9.07 kg)         |
| 60       |                |                 |              |               |              |                |                |                 |              |                  |                |             |                         |
| 30       | B              | 2 or 3          | 1494G        | 27-1/2 (699)  | 10-1/2 (267) | 8-5/16 (211)   | 28-7/8 (733)   | (2)             | 7 (178)      | 5-9/16 (142)     | 29-23/32 (753) | 13/16 (21)  | 60 lb (27.21 kg)        |
| 60       | B              |                 |              |               |              |                |                |                 |              |                  |                |             |                         |
| 30       | A              | 2 or 3          | 1494GY       | 27-1/2 (699)  | 10-1/2 (267) | 8-5/16 (211)   | 28-7/8 (733)   | (2)             | 7 (178)      | 5-9/16 (142)     | 29-23/32 (753) | 13/16 (21)  | 60 lb (27.21 kg)        |
|          | B              |                 |              |               |              |                |                |                 |              |                  |                |             |                         |
| 60       | A              |                 |              |               |              |                |                |                 |              |                  |                |             |                         |
|          | B              |                 |              |               |              |                |                |                 |              |                  |                |             |                         |
| 30       | A              | 2 or 3          | 1494GX       | 30 (762)      | 20-1/2 (521) | 9-11/16 (246)  | 31-3/8 (797)   | 17 (432)        | 17 (432)     | 5-9/16 (142)     | 32-7/32 (819)  | 13/16 (21)  | 90 lb (40.28 kg)        |
|          | B              |                 |              |               |              |                |                |                 |              |                  |                |             |                         |
| 60       | A              |                 |              |               |              |                |                |                 |              |                  |                |             |                         |
|          | B              |                 |              |               |              |                |                |                 |              |                  |                |             |                         |
| 100      | A              | 2 or 3          | 1494G        | 30 (762)      | 20-1/2 (521) | 9-11/16 (246)  | 31-3/8 (797)   | 17 (432)        | 17 (432)     | 5-9/16 (142)     | 32-7/32 (819)  | 13/16 (21)  | 90 lb (40.28 kg)        |
|          | B              |                 |              |               |              |                |                |                 |              |                  |                |             |                         |
|          | C              | 6               |              |               |              |                |                |                 |              |                  |                |             |                         |
|          | D              |                 |              |               |              |                |                |                 |              |                  |                |             |                         |
|          | A              | 2 or 3          | 1494GX       |               |              |                |                |                 |              |                  |                |             |                         |
|          | B              |                 |              |               |              |                |                |                 |              |                  |                |             |                         |
| 200      | A              | 2 or 3          | 1494G        | 50 (1270)     | 22 (559)     | 11-3/32 (282)  | 51-3/8 (1305)  | 18-1/2 (469.90) | 18-1/2 (470) | 5-9/16 (141)     | 52-1/4 (1327)  | 13/16 (21)  | 200 lb (90.7 kg)        |
|          | B              |                 |              |               |              |                |                |                 |              |                  |                |             |                         |
|          | C              | 6               |              |               |              |                |                |                 |              |                  |                |             |                         |
|          | D              |                 |              |               |              |                |                |                 |              |                  |                |             |                         |
| 400      | A              | 2 or 3          | 1494G        | 56 (1422)     | 30-1/2 (775) | 13-25/32 (350) | 57-5/8 (1464)  | 25-1/4 (641)    | 25-1/4 (641) | 8-1/32 (204)     | 58-1/2 (1486)  | 1-1/32 (26) | 300 lb (136.05 kg)      |
|          | B              |                 |              |               |              |                |                |                 |              |                  |                |             |                         |
| 600      | A              |                 |              |               |              |                |                |                 |              |                  |                |             |                         |
|          | B              |                 |              |               |              |                |                |                 |              |                  |                |             |                         |

(1) A = Non-fusible, Fusible 250V – Class H/R, Fusible 600V – Class J; B = Fusible 600V – Class H/R; C = Non-fusible; D = Fusible 250V – Class H/R, Fusible 600V – Class J  
 (2) These enclosures have one top mounting hole that is located on the center line. All other enclosures have two top mounting holes that are located as shown.

# Bulletin 1494G Safety Disconnect Switches – Hazardous Locations

## Overview

Bulletin 1494G safety disconnect switches for hazardous locations can be used for 30 A, 60 A, and 100 A applications. They are available in 3R, 7, and 9 bolted enclosure types for indoor or outdoor use. These switches are certified for use in Class I, Division 1 & 2, Groups C & D, and Class II, Groups E, F & G hazardous gas or dust locations.

Other key features include:

- hinged cover for easy access
- auxiliary contact that is provided as standard
- viewing window that is provided as standard for easy viewing of switch blades
- provisions for a mechanical key interlock switch
- non-fusible version only
- Handle lockable in the Off position only



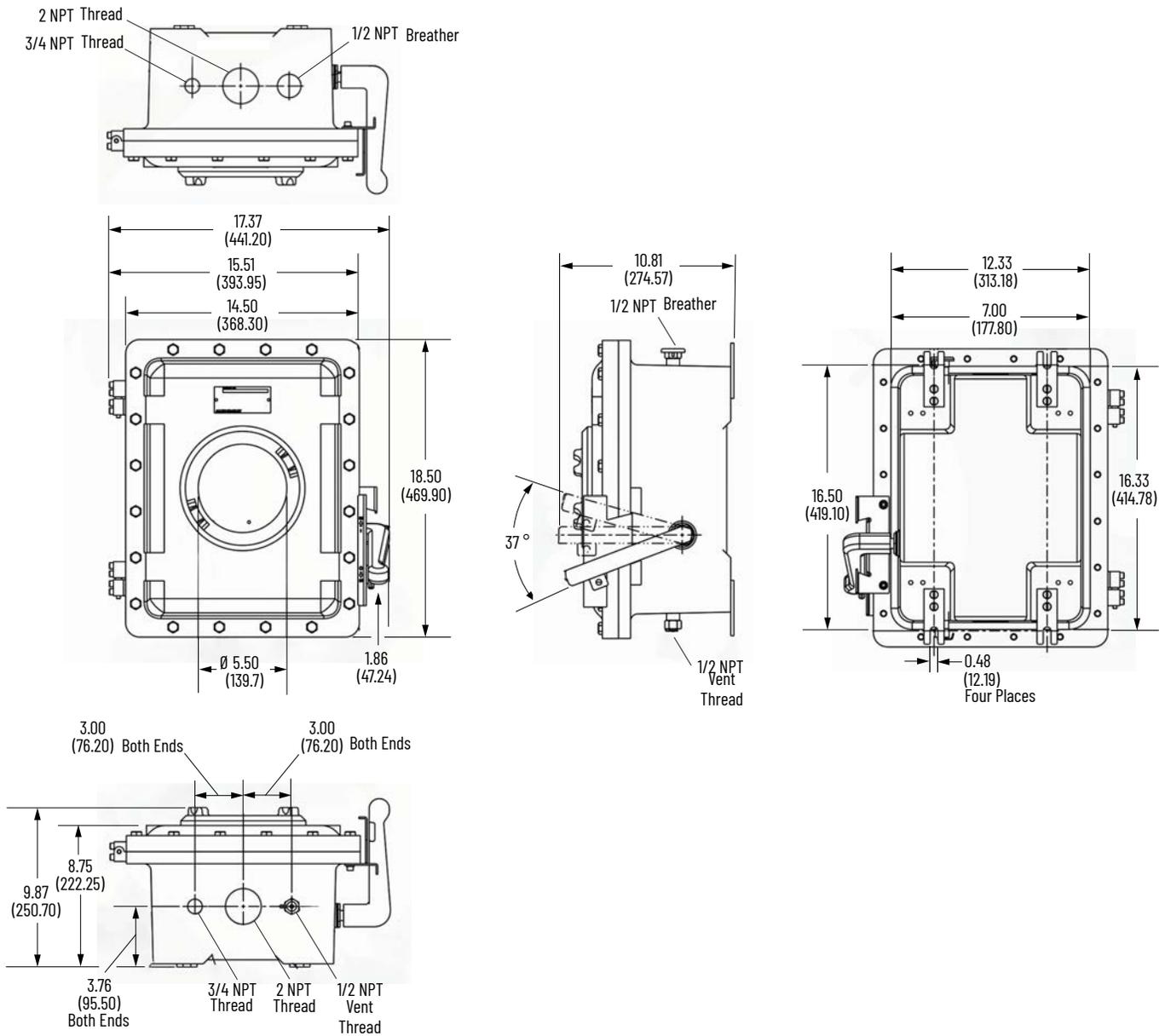
## Safety Switch for Hazardous Locations



| Size [A] | Horsepower |         |          |         |         | Cat. No.<br>Type 3R, 7 & 9 Bolted Enclosure<br>Class I, Div. 1 and 2, Groups C&D<br>Class II, Groups E, F, G<br><br>1494G-DH3N-203W |
|----------|------------|---------|----------|---------|---------|---|
|          | 480V AC    |         | 600V AC  |         | 250V AC |   |
|          | Standard   | Maximum | Standard | Maximum |         |   |
| 30       | 5          | 15      | 7.5      | 20      | 5       |   |
| 60       | 15         | 30      | 15       | 50      | 10      |   |
| 100      | 20         | 60      | 30       | 75      | 20      |   |

## Approximate Dimensions

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



## Overview

Designed for industrial and heavy commercial applications, the Allen-Bradley® 1494H heavy-duty safety disconnect switches are available with switch ratings 30...200 A and in Type 1, 3R, or 12 enclosures. These heavy-duty safety disconnect switches feature a visible-blade construction with a side-mounted, lockable metal handle with three padlocks in the OFF position. It is available in 240V and 600V, 1-phase and 3-phase, fusible and non-fusible configurations. The enclosure can accommodate Class H, J, and R fuses.



## Product Selection

### Non-fusible Disconnect Switch (600V AC)

| Continuous Current Rating [A] | UL and CSA Application Max Horsepower |  |                 |         |         |                 | Cat. No. |  |            |                 |            |
|-------------------------------|---------------------------------------|--|-----------------|---------|---------|-----------------|----------|--|------------|-----------------|------------|
|                               | 1-phase (60 Hz)                       |  | 3-phase (60 Hz) |         |         | 1-phase (60 Hz) |          |  |            | 3-phase (60 Hz) |            |
|                               | 240V AC                               |  | 240V AC         | 480V AC | 600V AC | 125V DC         | 250V DC  |  | Type 1     | Type 3R         | Type 12    |
| 30                            | 3                                     |  | 10              | 20      | 30      | 3               | 5        |  | 1494H-BA3N | 1494H-BN3N      | 1494H-BF3N |
| 60                            | 10                                    |  | 20              | 50      | 60      | 5               | 10       |  | 1494H-CA3N | 1494H-CN3N      | 1494H-CF3N |
| 100                           | 20                                    |  | 40              | 75      | 100     | —               | 20       |  | 1494H-DA3N | 1494H-DN3N      | 1494H-DF3N |
| 200                           | 30                                    |  | 60              | 125     | 150     | —               | 40       |  | 1494H-EA3N | 1494H-EN3N      | 1494H-EF3N |

### Fusible Disconnect Switch (600V AC)

| Continuous Current Rating [A] | UL and CSA Application Max Horsepower |     |                 |         |          |     |          |     |                 |     |          |     | Cat. No.    |             |             |
|-------------------------------|---------------------------------------|-----|-----------------|---------|----------|-----|----------|-----|-----------------|-----|----------|-----|-------------|-------------|-------------|
|                               | 1-phase (60 Hz)                       |     | 3-phase (60 Hz) |         |          |     |          |     | 1-phase (60 Hz) |     | 250V DC  |     |             |             |             |
|                               | 240V AC                               |     | 240V AC         | 480V AC | 600V AC  |     | 125V DC  |     |                 |     |          |     |             |             |             |
|                               | Standard                              | Max | Standard        | Max     | Standard | Max | Standard | Max | Standard        | Max | Standard | Max | Type 1      | Type 3R     | Type 12     |
| 30                            | 1.5                                   | 3   | 3               | 7.5     | 5        | 15  | 7.5      | 20  | 2               | 3   | 5        | —   | 1494H-BA3H6 | 1494H-BN3H6 | 1494H-BF3H6 |
| 60                            | 3                                     | 10  | 7.5             | 15      | 15       | 30  | 15       | 50  | 5               | —   | 10       | —   | 1494H-CA3H6 | 1494H-CN3H6 | 1494H-CF3H6 |
| 100                           | 7.5                                   | 15  | 15              | 30      | 25       | 60  | 30       | 75  | —               | —   | 20       | —   | 1494H-DA3H6 | 1494H-DN3H6 | 1494H-DF3H6 |
| 200                           | 15                                    | —   | 25              | 60      | 50       | 125 | 60       | 150 | —               | —   | 40       | —   | 1494H-EA3H6 | 1494H-EN3H6 | 1494H-EF3H6 |

### Fusible Disconnect Switch (240V AC) <sup>(1)</sup>

| Continuous Current Rating [A] | UL and CSA Application Max Horsepower |     |                 |     |          |         |                 |     |          |     | Cat. No.    |             |             |
|-------------------------------|---------------------------------------|-----|-----------------|-----|----------|---------|-----------------|-----|----------|-----|-------------|-------------|-------------|
|                               | 1-phase (60 Hz)                       |     | 3-phase (60 Hz) |     |          |         | 1-phase (60 Hz) |     |          |     |             |             |             |
|                               | 240V AC                               |     | 240V AC         |     | 480V AC  | 600V AC | 125V DC         |     | 250V DC  |     |             |             |             |
|                               | Standard                              | Max | Standard        | Max | Standard | Max     | Standard        | Max | Standard | Max | Type 1      | Type 3R     | Type 12     |
| 30                            | 1.5                                   | 3   | 3               | 7.5 | —        | —       | 2               | 3   | 5        | —   | 1494H-BA3H2 | 1494H-BN3H2 | 1494H-BF3H2 |
| 60                            | 3                                     | 10  | 7.5             | 15  | —        | —       | 5               | —   | 10       | —   | 1494H-CA3H2 | 1494H-CN3H2 | 1494H-CF3H2 |
| 100                           | 7.5                                   | 15  | 15              | 30  | —        | —       | —               | —   | 20       | —   | —           | 1494H-DN3H2 | 1494H-DF3H2 |
| 200                           | 15                                    | —   | 25              | 60  | —        | —       | —               | —   | 40       | —   | 1494H-EA3H2 | 1494H-EN3H2 | 1494H-EF3H2 |

(1) Includes a neutral lug for four wire applications.

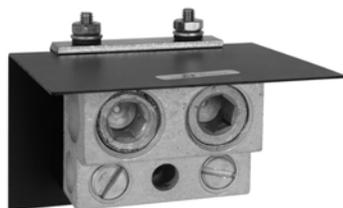
## Accessories

Optional accessories are available for all 1494H disconnect sizes.

### Ground Lugs

| Description           | Cat. No. |
|-----------------------|----------|
| For 30, 60 A switch   | 599-GR4  |
| For 100, 200 A switch | 599-GR5  |

### Neutral Kits



| Description   | Cat. No. |
|---|----------|
| 30 A @ 250/600V AC Fusible (Type 1 & 3R)                  | 599-NK1  |
| 30 A @ 250/600V AC Non-Fusible (Type 1 & 3R)              | 599-NK2  |
| 30 A @ 250/600V AC Fusible and Non-Fusible (Type 12)      | 599-NK3  |
| 60 A @ 250/600V AC Fusible and Non-Fusible (Type 1 & 3R)  | 599-NK4  |
| 60 A @ 250/600V AC Fusible (Type 12)                      | 599-NK5  |
| 60 A @ 250/600V AC Non-Fusible (Type 12)                  | 599-NK6  |
| 100 A @ 250/600V AC Fusible (Type 1 & 3R)                 | 599-NK7  |
| 100 A @ 250/600V AC Non-Fusible (Type 1, 3R, and 12)      | 599-NK8  |
| 100 A @ 250/600V AC Fusible (Type 12)                     | 599-NK9  |
| 200 A @ 250/600V AC Fusible and Non-Fusible (Type 1 & 3R) | 599-NK10 |
| 200 A @ 250/600V AC Fusible and Non-Fusible (Type 12)     | 599-NK11 |

### Conduit Hubs Type 3R (Package Quantity of 10)



| Description [in. (mm)] | Cat. No. |
|------------------------|----------|
| 0.75 (19.05) hub       | 1495-N71 |
| 1.00 (25.40) hub       | 1495-N72 |
| 1.25 (31.75) hub       | 1495-N73 |
| 1.50 (38.10) hub       | 1495-N74 |
| 2.00 (50.80) hub       | 1495-N75 |
| 2.50 (63.50) hub       | 1495-N76 |

### Electrical Interlock

| Description  | Cat. No. |
|--|----------|
| 10 A DPDT – early break (for 30 A, Type 1 & 3R only)                       | 1495-N77 |
| 15 A DPDT – early break (for 30 A, Type 12)                                | 1495-N78 |
| 15 A DPDT – early break (for all 60 A, 100 A, & 200 A, Type 1, 3R, and 12) |          |

### Heavy-Duty Class R Fuse Clip Kits (Quantity of 1 Kit Required per Switch)



| Description                              | Cat. No. |
|--|----------|
| 30 A @ 250V AC (Type 1, 3R, and 12)      | 1401-N70 |
| 30 A @ 600V AC (Type 1 & 3R)             | 1401-N71 |
| 30 A @ 600V AC (Type 12)                 | 1401-N72 |
| 30 A @ 600V AC (Type 12)                 | 1401-N73 |
| 60 A @ 600V AC (Type 1, 3R, and 12)      | 1401-N74 |
| 100 A @ 250/600V AC (Type 12)            | 1401-N76 |
| 100 A @ 250/600V AC (Type 1 & 3R)        | 1401-N77 |
| 200 A @ 250/600V AC (Type 1, 3R, and 12) |          |

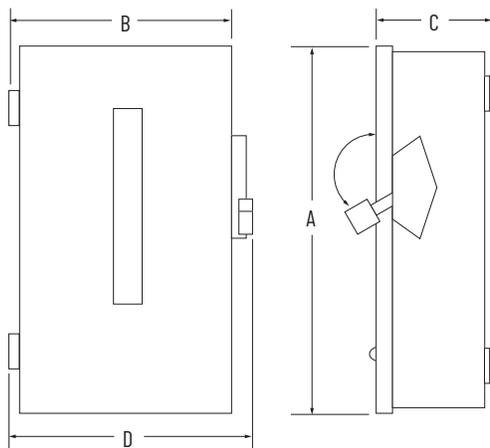
# Specifications

| <b>Disconnect Switch Electrical Ratings</b>   |                    |   |   |      |       |       |
|---|--------------------|---|---|------|-------|-------|
| Switch Size   |                    |   | 30 A                                      | 60 A | 100 A | 200 A |
| Rated insulation voltage $U_i$ (UL) IEC   |                    |   | (600) 660V                                |      |       |       |
| Ratings: UL/CSA/NEMA  | Horsepower         | 230V/60 Hz  | 10  | 20   | 40    | 60    |
|   |                    | 460V/60 Hz  | 20  | 50   | 75    | 125   |
|   |                    | 575V/60 Hz  | 30  | 60   | 100   | 150   |
|   |                    | 250V DC   | 5   | 10   | 20    | 40    |
|   | Continuous Current | 600V AC   | 30  | 60   | 100   | 200   |
|   |                    | 250V DC   |   |      |       |       |
| <b>Auxiliary Contact Electrical Ratings</b>   |                    |   |   |      |       |       |
| Continuous Current  |                    |   | 10 A                                      | 15 A |       |       |
| Pole Configuration  |                    |   | DPDT                                      |      |       |       |
| <b>Mechanical</b>   |                    |   |   |      |       |       |
| Degree of protection  |                    | Operating handles                                     | Painted Type 1, 3R, 12                    |      |       |       |
| Mechanical life (Typical)   |                    | 10,000 operations                                     |   |      |       |       |
| Switching frequency (operations/hr)   |                    | 300 max   |   |      |       |       |
| <b>Environment Specifications</b>   |                    |   |   |      |       |       |
| Temperature   | Operating          |   | -35...+40 °C (-31...+104 °F)              |      |       |       |
|   | Storage            |   | -40...+65 °C (-40...+149 °F)              |      |       |       |
| Altitude (per IEC 947-5)  |                    | 2000 m (6561.68 ft) per IEC 337-1                     |   |      |       |       |
| Relative Humidity (per IEC 947-3)   |                    | 90% at 20 °C (68 °F) and 50% at 40 °C (104 °F)        |   |      |       |       |
| <b>Design Specification/Test Requirements</b>   |                    |   |   |      |       |       |
| Dielectric strength   |                    | 2200 for 1 minute                                     |   |      |       |       |
| Electrical life   |                    | 6000 operations at rated current                      |   |      |       |       |
| Short Circuit Withstand Capability  |                    | 10,000 A: unfused                                     |   |      |       |       |
|   |                    | 10,000 A: with Class H fuses                          |   |      |       |       |
|   |                    | 200,000 A: with Class J or Class R fuses (30...100 A) |   |      |       |       |
|   |                    | 100,000 A: with Class J or Class R fuses (200 A)      |   |      |       |       |
| <b>Construction</b>   |                    |   |   |      |       |       |
| Switch body material  |                    | Plastic   |   |      |       |       |
| Contact material  |                    | Copper, tin-plated                                    |   |      |       |       |
| Terminals   | 30 A               | #10 - 32 screw and self-lifting pressure plate        |   |      |       |       |
|   | 60 A               | 1/4 in. – 28 screw-lug, copper                        |   |      |       |       |
|   | 100 A              | 5/16 in. – 24 screw-lug, copper                       |   |      |       |       |
|   | 200 A              | 3/8 in. – 24 screw-lug, copper                        |   |      |       |       |
| All wires rated +75 °C (+167 °F) or higher must be sized per the local Electric Code for +75 °C (+167 °F) wire. |                    |   |   |      |       |       |
| Conductor size (mm <sup>2</sup> )   | 30 A               | #14...8 AWG   |   |      |       |       |
|   | 60 A               | #12...2 AWG   |   |      |       |       |
|   | 100 A              | 10... 1/0 AWG   |   |      |       |       |
|   | 200 A              | #3...250 MCM AWG                                      |   |      |       |       |
| Recommended torque  |                    |   | <b>Conductor into Lug [lb·in (N·m)]</b>   |      |       |       |
|   | 30 A               | 36...40 (4.07...4.52)                                 |   |      |       |       |
|   | 60 A               | 35...45 (3.95...4.08)                                 |   |      |       |       |
|   | 100 A              | 35...50 (3.95...5.65)                                 |   |      |       |       |
| Mechanisms  | 200 A              | 275 (31.07)   |   |      |       |       |
|   |                    |   | Zinc-plated steel, bronze chromate finish |      |       |       |

## Approximate Dimensions

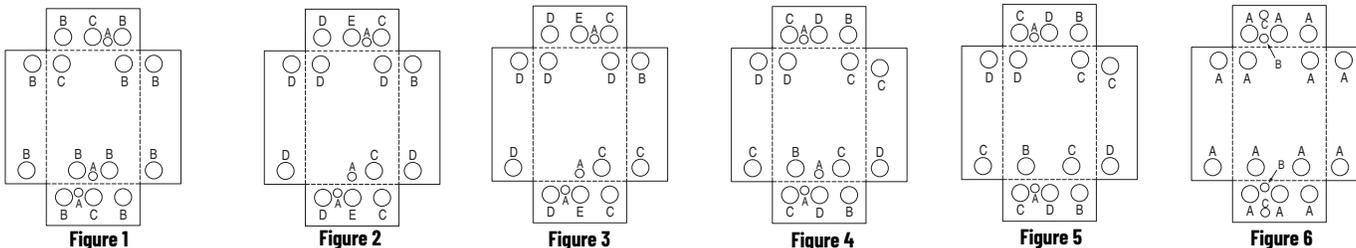
Approximate dimensions are shown in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.

### Type 1 (Enclosure Code "A") General-purpose Painted Metal Enclosures



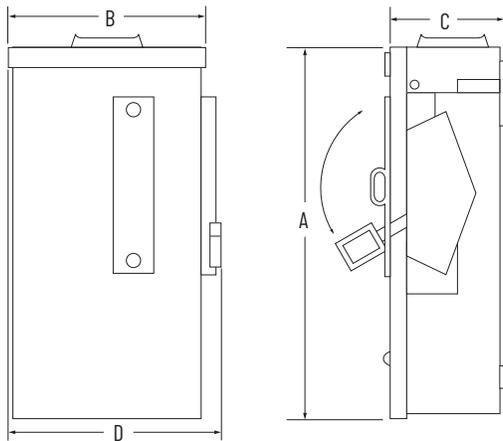
| Switch Size [A] | Fuse Style  | Height (A)        | Width (B)        | Depth (C)      | Width with Handle (D) | Knockout Figure No. |
|-----------------|-------------|-------------------|------------------|----------------|-----------------------|---------------------|
| 30              | 240V        | 10-9/32 (261.14)  | 6-3/8 (161.93)   | 3-5/16 (84.14) | 7-1/8 (180.98)        | 1                   |
|                 | 600V        | 12-19/32 (319.88) | 8-3/8 (212.73)   | 4 (101.60)     | 9-1/2 (241.30)        | 2                   |
|                 | Non-fusible | 10-3/8 (263.53)   | 8-3/8 (212.73)   | 4 (101.60)     | 9-1/4 (235.00)        | 3                   |
| 60              | 240V        | 17-19/32 (446.88) | 9-3/8 (238.13)   | 5 (127.00)     | 10-3/64 (255.19)      | 4                   |
|                 | 600V        | 21-11/32 (542.13) |                  |                |                       | 5                   |
|                 | Non-fusible | 17-19/32 (446.88) |                  |                |                       | 4                   |
| 100             | 240V        | 21-11/32 (542.13) | 9-3/8 (238.13)   | 5 (127.00)     | 10-3/64 (255.19)      | 5                   |
|                 | 600V        | 22-11/32 (567.53) |                  |                |                       | 4                   |
|                 | Non-fusible | 17-19/32 (446.88) |                  |                |                       | 4                   |
| 200             | 240V        | 31-5/8 (803.28)   | 13-7/16 (341.31) | 5-1/4 (133.35) | 14-7/16 (366.71)      | 6                   |
|                 | 600V        |                   |                  |                |                       |                     |
|                 | Non-fusible |                   |                  |                |                       |                     |

### Knockouts – Conduit Size for Type 1 Enclosures



| Switch Size [A] | Fuse Style  | Knockouts   |   |   |   |   |
|-----------------|-------------|---|---|---|---|---|
|                 |             | A   | B   | C   | D   | E   |
| 30              | 240V        | 9/32 (7.14)                                       | 1/2 x 3/4 (12.7 x 19.05)                            | 3/8 x 1/2 x 3/4 x 1 (9.5 x 12.7 x 19.05 x 25.4)       | -   |   |
| 30              | 600V        | 9/32 (7.14)                                       | 1/2 x 3/4 (12.7 x 19.05)                            | 1/2 x 3/4 x 1 (12.7 x 19.05 x 25.4)                   | 1/2 x 3/4 x 1 x 1-1/4 (12.7 x 19.05 x 25.4 x 31.75) | 3/4 x 1 x 1-1/4 x 1-1/2 (19.05 x 25.4 x 31.75 x 38.1) |
|                 | Non-fusible |   |   |   |   |   |
| 60              | 240V        | 9/32 (7.14)                                       | 1/2 x 3/4 x 1 x 1-1/4 (12.7 x 19.05 x 25.4 x 31.75) | 3/4 x 1 x 1-1/4 x 1-1/2 (19.05 x 25.4 x 31.75 x 38.1) | 1 x 1-1/4 x 1-1/2 x 2 (25.4 x 31.75 x 38.1 x 50.8)  | -   |
|                 | 600V        |   |   |   |   |   |
|                 | Non-fusible |   |   |   |   |   |
| 100             | 240V        | 9/32 (7.14)                                       | 1/2 x 3/4 x 1 x 1-1/4 (12.7 x 19.05 x 25.4 x 31.75) | 3/4 x 1 x 1-1/4 x 1-1/2 (19.05 x 25.4 x 31.75 x 38.1) | 1 x 1-1/4 x 1-1/2 x 2 (25.4 x 31.75 x 38.1 x 50.8)  | -   |
|                 | 600V        |   |   |   |   |   |
|                 | Non-fusible |   |   |   |   |   |
| 200             | 240V        | 1 x 1-1/2 x 2 x 2-1/2 (25.4 x 38.1 x 50.8 x 63.5) | 9/32 (7.14)   | 1/2 (12.7)  | -   | -   |
|                 | 600V        |   |   |   |   |   |
|                 | Non-fusible |   |   |   |   |   |

Type 3R (Enclosure Code "N") Rain-proof Painted Metal Enclosures



| Switch Size [A] | Fuse Style  | Height (A)           | Width (B)          | Depth (C)           | Width with Handle (D) | Knockout Figure No. |
|-----------------|-------------|----------------------|--------------------|---------------------|-----------------------|---------------------|
| 30              | 240V        | 10-5/8<br>(269.88)   | 6-3/8<br>(161.93)  | 3-5/16<br>(84.14)   | 7-1/8<br>(180.98)     | 7                   |
|                 | 600V        | 13-13/64<br>(335.36) | 8-1/2<br>(215.90)  | 4<br>(101.60)       | 9-1/8<br>(231.78)     | 8                   |
|                 | Non-fusible |                      |                    |                     |                       |                     |
| 60              | 240V        | 17-7/16<br>(442.91)  | 9-3/8<br>(238.13)  | 5<br>(127.00)       | 10-3/4<br>(273.05)    | 9                   |
|                 | 600V        | 22-3/16<br>(563.56)  |                    |                     | 10-1/2<br>(266.70)    |                     |
|                 | Non-fusible | 17-7/16<br>(442.91)  |                    |                     | 10-3/64<br>(255.19)   |                     |
| 100             | 240V        | 22-3/16<br>(563.56)  | 9-3/8<br>(238.13)  | 5<br>(127.00)       | 10-5/32<br>(257.97)   | 9                   |
|                 | 600V        | 17-7/16<br>(442.91)  |                    |                     | 10-3/64<br>(255.19)   |                     |
|                 | Non-fusible |                      |                    |                     |                       |                     |
| 200             | 240V        | 31-7/16<br>(798.51)  | 13-3/8<br>(339.73) | 5-15/32<br>(138.91) | 14-1/8<br>(358.78)    | 10                  |
|                 | 600V        |                      |                    |                     |                       |                     |
|                 | Non-fusible |                      |                    |                     |                       |                     |

Knockouts – Conduit Size

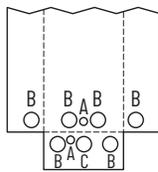


Figure 7

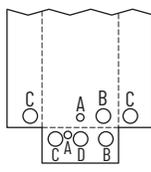


Figure 8

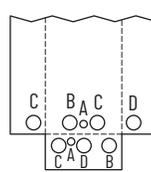


Figure 9

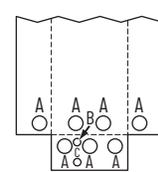
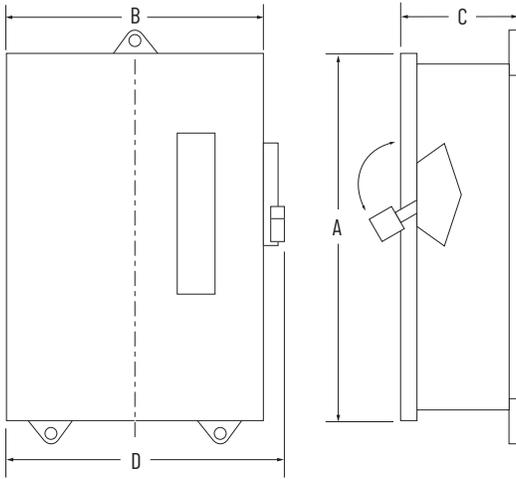


Figure 10

| Switch Size [A] | Fuse Style  | Knockout Dimensions in. (mm)                             |  |  |  |
|-----------------|-------------|--|--|--|--|
|                 |             | A  | B  | C  | D  |
| 30              | 240V        | 9/32<br>(7.14)   | 1/2 x 3/4<br>(12.70 x 19.05)                             | 3/8 x 1/2 x 3/4 x 1<br>(9.53 x 12.70 x 19.05 x 25.40)      | –  |
|                 | 240V        |  |  |  |  |
|                 | 600V        | 9/32<br>(7.14)   | 1/2 x 3/4 x 1<br>(12.70 x 19.05 x 25.40)                 | 1/2 x 3/4 x 1 x 1-1/4<br>(12.70 x 19.05 x 25.40 x 31.75)   | 3/4 x 1 x 1-1/4 x 1-1/2<br>(19.05 x 25.40 x 31.75 x 38.10) |
| 60              | 240V        | 9/32<br>(7.14)   | 1/2 x 3/4 x 1<br>(12.70 x 19.05 x 25.40)                 | 3/4 x 1 x 1-1/4 x 1-1/2<br>(19.05 x 25.40 x 31.75 x 38.10) | 1 x 1-1/4 x 1-1/2 x 2<br>(25.40 x 31.75 x 38.10 x 50.80)   |
|                 | 600V        | 9/32<br>(7.14)   | 1/2 x 3/4 x 1 x 1-1/4<br>(12.70 x 19.05 x 25.40 x 31.75) | 3/4 x 1 x 1-1/4 x 1-1/2<br>(19.05 x 25.40 x 31.75 x 38.10) | 1 x 1-1/4 x 1-1/2 x 2<br>(25.40 x 31.75 x 38.10 x 50.80)   |
|                 | Non-fusible |  |  |  |  |
| 100             | 240V        | 9/32<br>(7.14)   | 1/2 x 3/4 x 1 x 1-1/4<br>(12.70 x 19.05 x 25.40 x 31.75) | 3/4 x 1 x 1-1/4 x 1-1/2<br>(19.05 x 25.40 x 31.75 x 38.10) | 1 x 1-1/4 x 1-1/2 x 2<br>(25.40 x 31.75 x 38.10 x 50.80)   |
|                 | 600V        |  |  |  |  |
|                 | Non-fusible |  |  |  |  |
| 200             | 240V        | 1 x 1-1/2 x 2 x 2-1/2<br>(25.40 x 38.10 x 50.80 x 63.50) | 9/32<br>(7.14)   | 1/2<br>(12.70)   | –  |
|                 | 600V        |  |  |  |  |
|                 | Non-fusible |  |  |  |  |

**Type 12 (Enclosure Code "F") Dust-tight Painted Metal Enclosures**



| Switch Size [A] | Fuse Style  | Height (A)          | Width (B)           | Depth (C)           | Width with Handle (D) |
|-----------------|-------------|---------------------|---------------------|---------------------|-----------------------|
| 30              | 240V        | 11-3/8<br>(288.93)  | 7-3/8<br>(187.33)   | 5-1/16<br>(128.59)  | 8-1/8<br>(206.38)     |
|                 | 600V        | 13-3/8<br>(339.73)  | 9-3/8<br>(238.13)   | 5-1/32<br>(127.79)  | 10-1/4<br>(260.35)    |
|                 | Non-fusible | 11-5/16<br>(287.33) |                     |                     |                       |
| 60              | 240V        | 19-3/8<br>(492.13)  | 9-3/8<br>(238.13)   | 5-13/32<br>(137.32) | 10-1/4<br>(260.35)    |
|                 | 600V        | 13-3/8<br>(339.73)  |                     | 5-5/16<br>(134.94)  |                       |
|                 | Non-fusible | 13-3/8<br>(339.73)  |                     | 5-1/16<br>(128.59)  |                       |
| 100             | 240V        | 25-3/8<br>(644.53)  | 13-1/2<br>(342.90)  | 5-9/32<br>(134.14)  | 14-1/4<br>(361.95)    |
|                 | 600V        | 25-3/8<br>(644.53)  |                     | 5-5/16<br>(134.94)  |                       |
|                 | Non-fusible |                     |                     | 5-5/16<br>(134.94)  |                       |
| 200             | 240V        | 35-1/8<br>(892.18)  | 14-7/16<br>(366.71) | 5-5/16<br>(134.94)  | 15-1/4<br>(387.35)    |
|                 | 600V        | 35-1/8<br>(892.18)  | 14-1/2<br>(368.30)  |                     |                       |
|                 | Non-fusible |                     | 14-1/2<br>(368.30)  |                     |                       |

## Overview

Bulletin 1491 Control Circuit Fuse Blocks are designed for protection of transformers and control circuits capable of delivering a maximum of 600V and no more than 200,000 RMS symmetrical amps.

## Product Selection

### Circuit Control Power Fuse Blocks

| Circuit Control Power Fuse Blocks   | Fuse Size [A] | Number of Poles | Fuse Class | Cat. No.                   |
|---|---------------|-----------------|------------|----------------------------|
|    | 0.5...6       | 1               | CC         | 599-FR04 <sup>(1)(2)</sup> |
|    | 0.5...30      | 1               | 10x38mm    | 1491-R165 <sup>(3)</sup>   |
|   | 0.5...30      | 2               | CC         | 1491-R162 <sup>(3)</sup>   |
|  | 0.5...30      | 2               | 10x38mm    | 1491-R167 <sup>(3)</sup>   |
|  | 0.5...30      | 3               | CC         | 1491-R169 <sup>(3)</sup>   |
|  | 0.5...30      | 3               | CC         | 1491-R171 <sup>(3)</sup>   |

(1) Rated for a 6A fuse maximum. Designed to be direct mounted to 500 Line Contactors and Starters, NEMA Size 0...5. Optional bracket for separate panel mounting is included.

(2) When direct mounted to 500 Line Contactors and Starters this kit occupies two pockets (spaces) where bulletin 595 auxiliary contacts are mounted.

(3) These kits use only Class CC or midget fuses (rated 0.5...30 A) such as those offered by Bussmann KTK-R, Ferraz-Shawmut ATM R, or Littelfuse KLK.

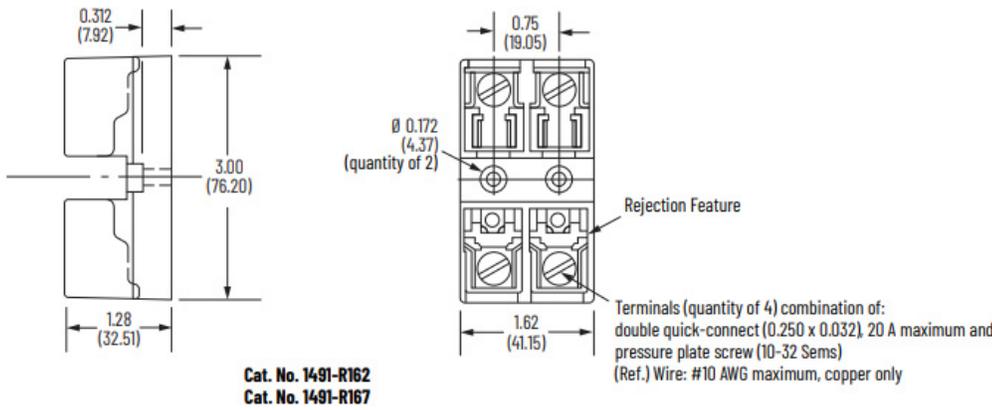
**Fuse Cover**

| Fuse Cover  | Cat. No.  |
|---|-----------|
|  | 1491-R150 |

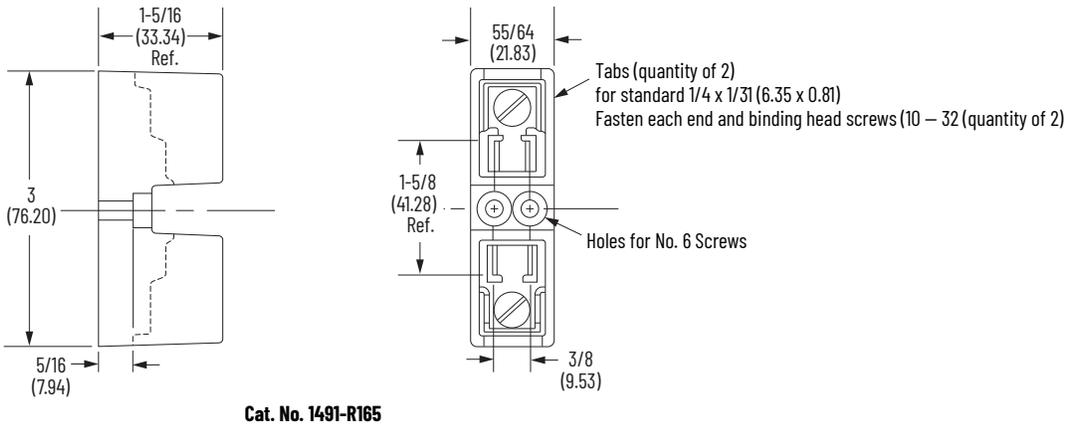
**Approximate Dimensions**

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

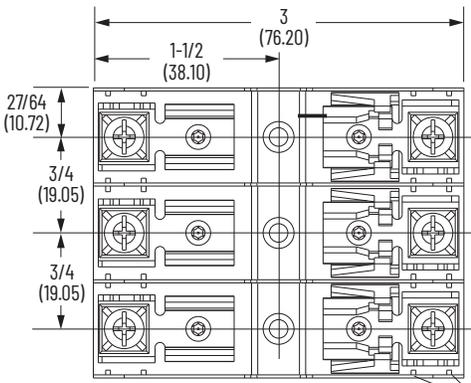
**Fuse Block, 0.5...30 A, Class CC or 10x38 mm Fuse, 600V, 2 Pole**



**Control Circuit Fuse Block, 0...30 A, Class CC or 10x38 mm Fuse, 600V, 1 Pole**



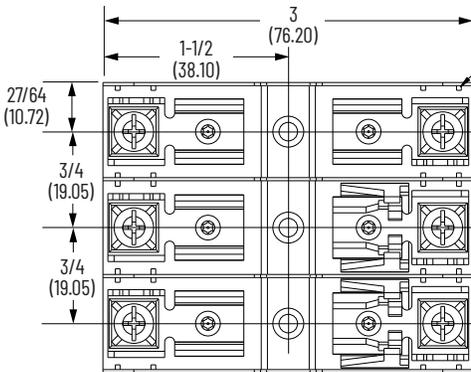
**Control Circuit Fuse Block, 0...30 A, Class CC or 10x38 mm Fuse, 600V, 3 Pole**



Tabs (quantity of 2)  
 for standard 1/4 x 1/31 (6.35 x 0.81)  
 Fasten (20 A maximum) and 10 – 32 pressure plate screws  
 Typ. six places

**Cat. No. 1491-R171**

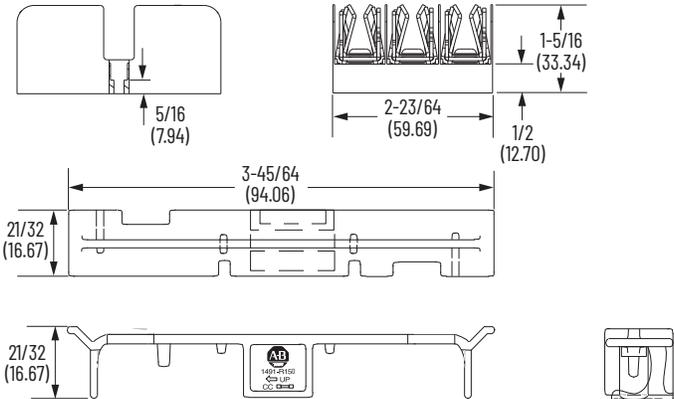
**Control Circuit Fuse Block, 0...30 A, Class R Fuse, 600V, 3 Pole**



Clip to be used for standard fuse  
 (midget), not Class CC (Rejection)

**Cat. No. 1491-R169**

**Fuse Cover without Fuse, For Separate Mount Control Circuit Holders**



**Cat. No. 1491-R150**

**Notes:**

## Overview

Bulletin 1491 Power Fuse Blocks are designed for general-purpose applications. The bases of the fuse blocks (either phenolic or porcelain in construction) are rugged and provide ease in mounting and wiring. Fuse blocks are available with ratings from 30...600 A and can be used with Class H, J, and R fuses.



| Spring-Type Fuse Clips              |                       |                                     | Wedge-Type Fuse Clamps                    |  |
|-------------------------------------|-----------------------|-------------------------------------|---|--|
| Self-lifting Wiring Terminal Clamps | Tang-type Connections | Self-Lifting Wiring Terminal Clamps | Tang-Type Connections on Wiring Terminals |  |
| —                                   | —                     | Class R Rejection Feature           | —   |  |
| —                                   | —                     | —                                   | —   |  |

## Product Selection

### Power Fuse Blocks

| Fuse Size [A] | Maximum Voltage [V] | Number of Poles | Cat. No. <sup>(1)(2)</sup>                  |           |                           |
|---------------|---------------------|-----------------|---|-----------|---------------------------|
|               |                     |                 | Class H                                     | Class J   | Class R                   |
| 0...30        | 250                 | 1               | 1491-N121                                   | —         | —                         |
|               |                     | 2               | 1491-N122                                   |           | —                         |
|               |                     | 3               | 1491-N125                                   |           | 1491-R125                 |
|               | 600                 | 1               | 1491-N161                                   | —         | —                         |
|               |                     | 3               | 1491-N126                                   | 1491-N126 | 1491-R126                 |
|               |                     | 3               | 1491-N226                                   | —         | 1491-R226                 |
| 31...60       | 250                 | 3               | 1491-N266                                   | 1491-N266 | 1491-R266                 |
|               | 600                 | 3               | 1491-N333                                   | 1491-N333 | 1491-R333                 |
| 61...100      | 250...600           | 3               | 1491-N333                                   | 1491-N333 | 1491-R333                 |
| 101...200     | 250...600           | 1               | 1491-N421 (use two for 2-pole applications) |           | —                         |
|               |                     | 2               | 1491-N421 (quantity of 2)                   |           |                           |
|               |                     | 3               | 1491-N433                                   |           |                           |
| 201...400     | 250...600           | 1               | 1491-N521 (use two for 2-pole applications) |           | 1491-R523                 |
|               |                     | 2               | 1491-N521 (quantity of 2)                   |           |                           |
|               |                     | 3               | 1491-N521 (quantity of 3)                   |           |                           |
| 401...600     | 250...600           | 1               | 1491-N621                                   |           | 1491-R621                 |
|               |                     | 2               | 1491-N621 (quantity of 2)                   | —         | 1491-R621 (quantity of 2) |
|               |                     | 3               | 1491-N621 (quantity of 3)                   |           | 1491-R621 (quantity of 3) |

(1) Spring Type Fuse Clips are provided with 30 through 60A power fuse blocks.

(2) Wedge type Fuse Clamps are provided with 100 through 400A power fuse blocks.

## Spare Parts

### Lugs



| Lug Connectors 3 per package) |                          | For Use with Cat. No. | Cat. No.  |
|-------------------------------|--------------------------|-----------------------|-----------|
| Disconnect Size [A]           | Wire Size                |                       |           |
| 30                            | #14...#8 AWG wire        | 1491 Fuse Blocks      | (1)       |
| 60                            | #14...#4 AWG wire        | 1491 Fuse Blocks      | 1494R-N1  |
| 100                           | #8...#1/0 AWG wire       | 1491 Fuse Blocks      | 1494R-N2  |
| 200                           | #6...#4/0 AWG wire       | 1491 Fuse Blocks      | 1494R-N3  |
| 400                           | 2 of #1/0...350 MCM wire | 1491 Fuse Blocks      | 1494R-N10 |
| 600                           | 2 of #1/0...350 MCM wire | 1491 Fuse Blocks      | 1494R-N11 |

(1) All terminals of the 30 A switches are furnished with self-lifting pressure plate connectors as standard.

### Fuse Clip Kits – includes six clips and mounting hardware



1401-N42  
(Spring Type Fuse Clip)

| Fuse Class | Fuse Clip Rating [A] |      | Cat. No.     |
|------------|----------------------|------|--------------|
|            | 250V                 | 600V |              |
| H          | 30                   | —    | 1401-N41     |
| H, J       | 60                   | 30   | 1401-N42     |
| H, J       | —                    | 60   | 1401-N43     |
| H, J       | 100                  | 100  | 1401-N44     |
| H, J       | 200                  | 200  | 1401-N45     |
| H, J       | 400                  | 400  | 1401-N46 (1) |
| R          | 30                   | —    | 1401-N50     |
| R          | 60                   | 30   | 1401-N51     |
| R          | —                    | 60   | 1401-N52     |
| R          | 100                  | 100  | 1401-N53     |
| R          | 200                  | 200  | 1401-N54     |
| R          | 400                  | 400  | 1401-N55     |

(1) All terminals of the 30 A switches are furnished with self-lifting pressure plate connectors as standard.

### Certifications

|                                 |
|---------------------------------|
| <b>Bulletin 1491</b>            |
| UL Listed – File No. E34648     |
| CSA Certified – File No. LR1234 |
| CE                              |
| UKCA                            |

## Specifications

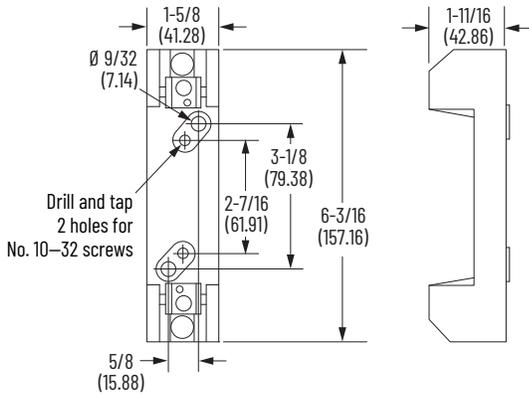
| <b>Electrical</b>                               |  |              |              |              |
|---|--|--------------|--------------|--------------|
| UL Fuse Type                                    | Class CC                                     | Class H      | Class J      | Class R      |
| CSA Fuse Type                                   | HRCI-Misc.                                   | HRCI-H       | HRCI-J       | HRCI-R       |
| Maximum Fuse Cartridge Size                     | 30 A   | 30 A - 600 A | 30 A - 400 A | 30 A - 400 A |
| Maximum Voltage AC                              | 600V   | 600V         | 600V         | 600V         |
| Maximum Voltage DC                              | 250V   | 250V         | 250V         | 250V         |
| Thermal Current Rating                          | 30 A   | 30 A - 600 A | 30 A - 400 A | 30 A - 400 A |
| Maximum Short Circuit Prospective Fault Current | 200 kA                                       | 10 kA        | 100 kA       | 200 kA       |
| <b>Mechanical</b>                               |  |              |              |              |
| Degree of Protection                            | IP00   | IP00         | IP00         | IP00         |
| Terminal Capacity mm <sup>2</sup>               | 6  | 10           | 10           | 10           |
| Terminal Capacity AWG                           | #10  | #8           | #8           | #8           |
| <b>Construction</b>                             |  |              |              |              |
| Fuse Clips                                      | Tin plated copper alloy                      |              |              |              |
| Terminals                                       | Tin plated copper alloy                      |              |              |              |
| Fuse Block Base                                 | Phenolic or Porcelain                        |              |              |              |
| <b>Environmental</b>                            |  |              |              |              |
| Ambient Temperature                             | Open -20 °C to +55 °C (-4 °F to +131 °F)     |              |              |              |
|   | Enclosed -20 °C to +40 °C (-4 °F to +104 °F) |              |              |              |
|   | Storage -40 °C to +65 °C (-40 °F to +149 °F) |              |              |              |
| Altitude (per IEC 947-5)                        | 2000 m                                       |              |              |              |
| Relative Humidity (per IEC 947-3)               | 90% at 20 °C and 50% at 40 °C                |              |              |              |

## Approximate Dimensions

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

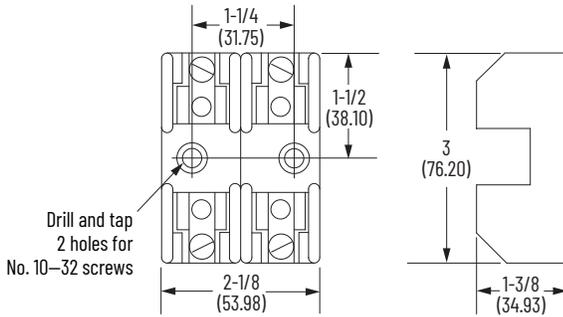
### Fuse Size 1...30 A

#### Fuse Block, 1...30 A, Class H Fuse, 600V, 1 Pole



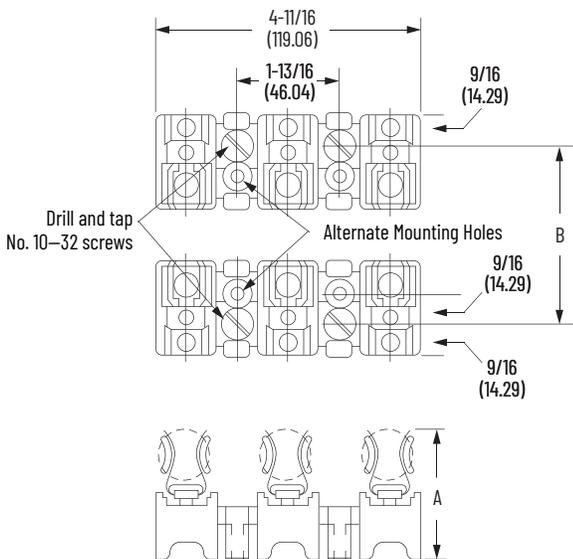
Cat. No. 1491-N161

#### Fuse Block, 1...30 A, Class H Fuse, 250V, 2 Pole



Cat. No. 1491-N122

#### Fuse Block, 1...30 A, Class H and J Fuse, 250/600V, 3 Pole



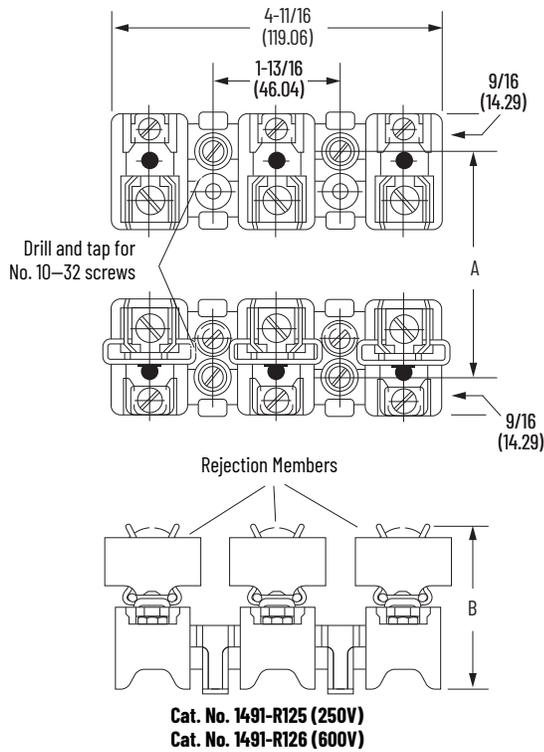
Cat. No. 1491-N125 (250V)  
Cat. No. 1491-N126 (600V)

| Voltage [V] | Class H          |                   | Class J          |              |
|-------------|------------------|-------------------|------------------|--------------|
|             | (A)              | (B)               | (A)              | (B)          |
| 250         | 2-1/8<br>(54.00) | 3<br>(76.20)      | -                |              |
| 600         | 2-3/8<br>(60.30) | 5-3/4<br>(146.10) | 2-3/8<br>(60.30) | 3<br>(76.20) |



When fuse blocks are installed in a vertical plane, the block with the rejection must be on the bottom.

### Fuse Block, 1...30 A, 250/600V, 3 Pole



| Voltage [V] | (A) <sup>(1)</sup> | (B)              |
|-------------|--------------------|------------------|
|             | ±0.020 (0.508)     | (Ref.)           |
| 250         | 2.94<br>(74.68)    | 2-1/8<br>(53.97) |
| 600         | 5.72<br>(145.29)   | 2-3/8<br>(60.33) |

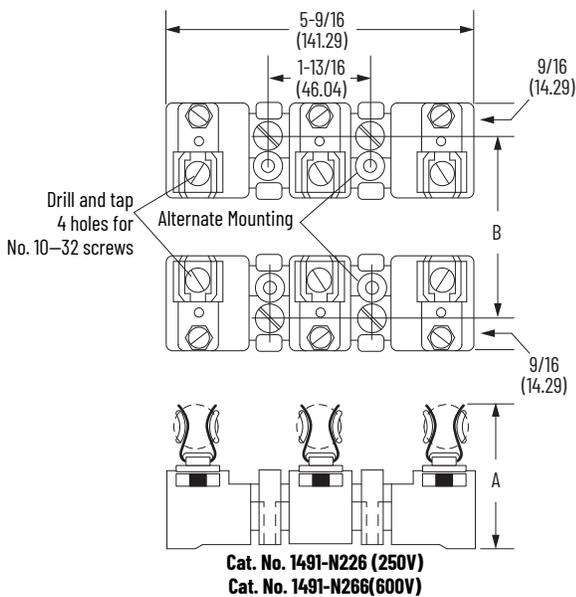
(1) Dimension "A" must be held to achieve fuse block rejection function.



When fuse blocks are installed in a vertical plane, the block with the rejection must be on the bottom.

### Fuse Size 31...60 A

#### Fuse Block, 31...60 A, Class H and J Fuse, 250/600V, 3 Pole

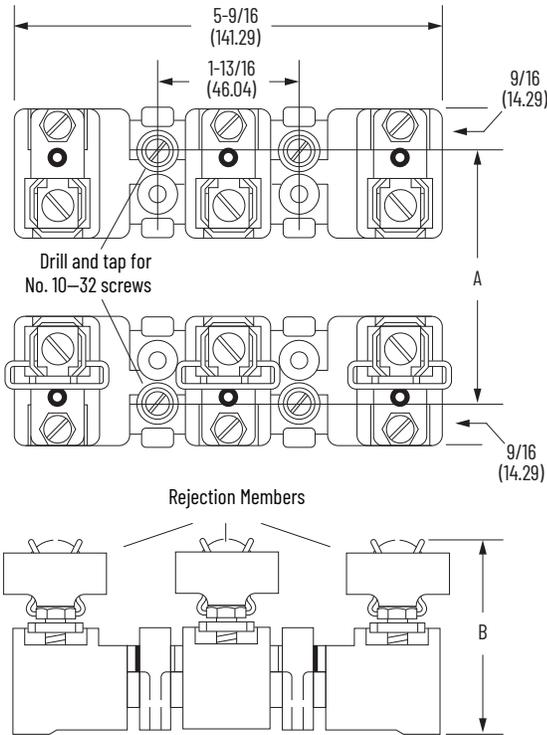


| Voltage [V] | Class H            |                   | Class J            |                  |
|-------------|--------------------|-------------------|--------------------|------------------|
|             | (A)                | (B)               | (A)                | (B)              |
| 250         | 2-3/8<br>(60.30)   | 3-3/4<br>(95.30)  | —                  | —                |
| 600         | 2-11/16<br>(68.30) | 6-1/4<br>(158.80) | 2-11/16<br>(68.30) | 3-1/8<br>(79.40) |



When fuse blocks are installed in a vertical plane, the block with the rejection must be on the bottom.

**Fuse Block, 31...60 A, 250/600V, 3 Pole**



**Cat. No. 1491-R226 (250V)**  
**Cat. No. 1491-R266 (600V)**

| Voltage [V] | (A) <sup>(1)</sup><br>±0.020 (0.508) | (B)<br>(Ref.)      |
|-------------|--------------------------------------|--------------------|
| 250         | 3.72<br>(94.49)                      | 2-3/8<br>(60.33)   |
| 600         | 6.22<br>(157.99)                     | 2-11/16<br>(68.26) |

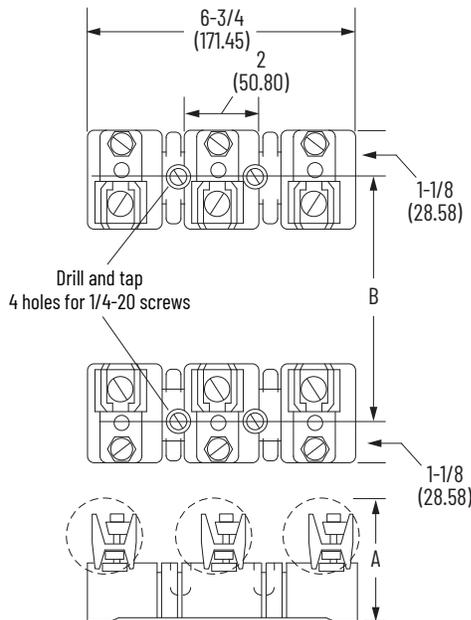
(1) Dimension "A" must be held to achieve fuse block rejection function.



When fuse blocks are installed in a vertical plane, the block with the rejection must be on the bottom.

**Fuse Size 61...100**

**Fuse Block, 61...100 A, Class H and J, 250/600V, 3 Pole**

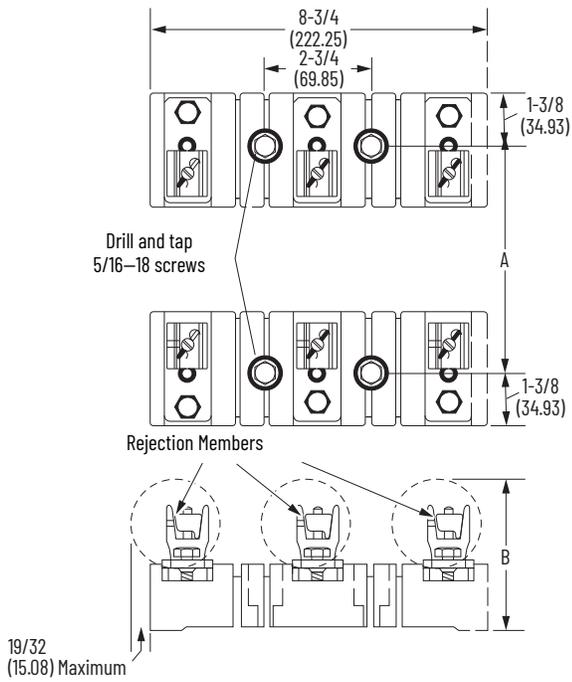


**Cat. No. 1491-N333**

| Voltage [V] | Class H         |                | Class J   |                |
|-------------|-----------------|----------------|-----------|----------------|
|             | (A)             | (B)            | (A)       | (B)            |
| 250         | 2-15/16 (74.60) | 5-7/8 (149.20) | —         | —              |
| 600         | 3-1/8 (79.40)   | 7-7/8 (200.00) | 3 (76.20) | 4-5/8 (117.50) |

## Fuse Size 101...200 A

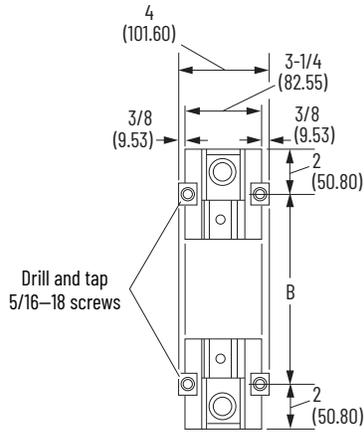
### Fuse Block, 101...200 A, 250/600V, 3 Pole



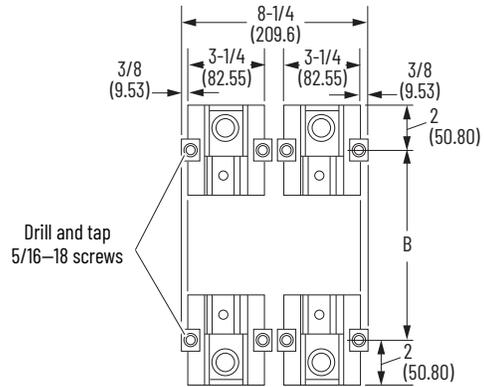
| Voltage [V] | (A) <sup>(1)</sup><br>±0.020 (0.508) | (B)<br>(Ref.)      |
|-------------|--------------------------------------|--------------------|
| 250         | 7.25<br>(184.15)                     | 4-3/16<br>(106.36) |
| 600         | 9.75<br>(247.60)                     | 4-5/16<br>(109.54) |

(1) Dimension "A" must be held to achieve fuse block rejection function.

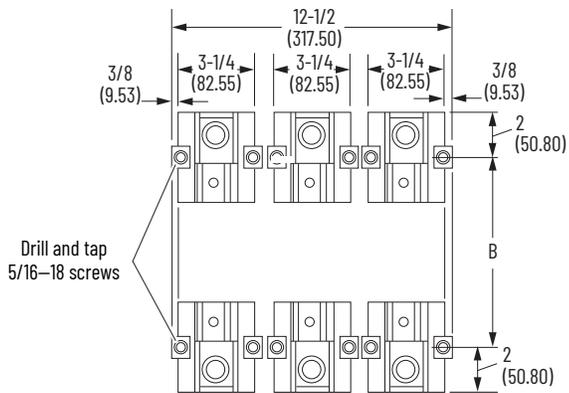
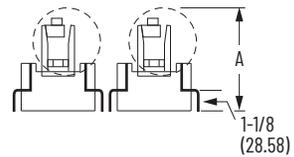
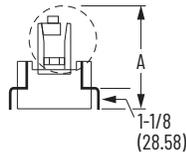
Fuse Block, 101...200 A, Fuse Class H, R, and J, 250/600V, Single Pole



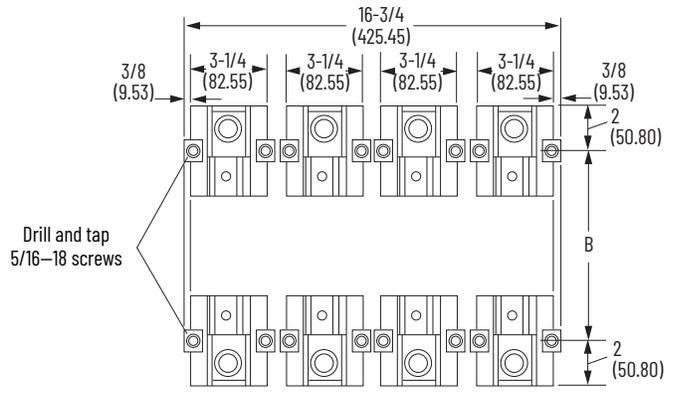
**Single Pole Application**  
Cat. No. 1491-N521



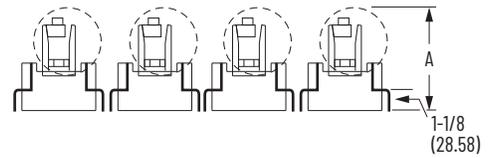
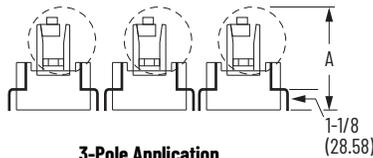
**2-Pole Application**  
Use (2) of Cat. No. 1491-N521



**3-Pole Application**  
Use (3) of Cat. No. 1491-N521



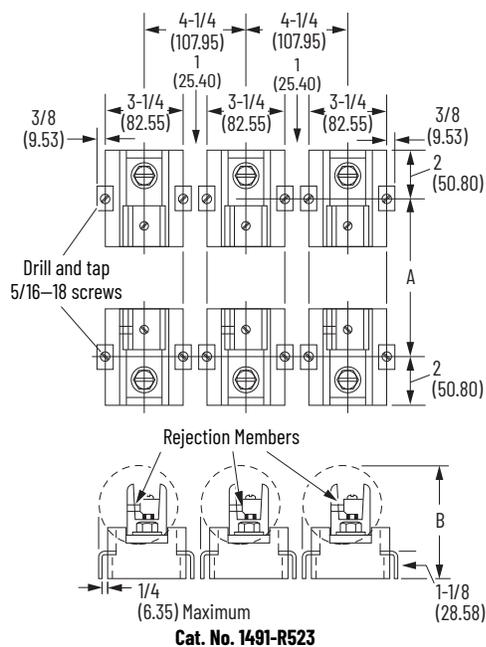
**4-Pole Application**  
Use (4) of Cat. No. 1491-N521



| Voltage [V] | Class H or R        |                | Class J           |                   |
|-------------|---------------------|----------------|-------------------|-------------------|
|             | (A)                 | (B)            | (A)               | (B)               |
| 250         | 4-3/4<br>(120.70)   | 9<br>(228.60)  | —                 | —                 |
| 600         | 4-61/64<br>(125.80) | 12<br>(304.80) | 4-5/8<br>(117.50) | 7-1/2<br>(190.50) |

## Fuse Size 201...400 A

Fuse Block, 201...400 A, 250/600 V, 3 Pole

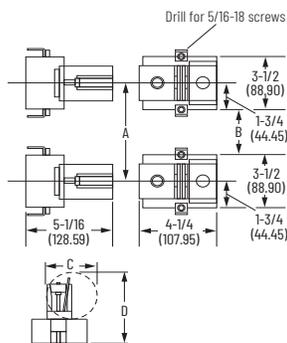


| Voltage [ V ] | (A) <sup>(1)</sup><br>±0.020 (0.508) | (B)<br>(Ref.)       |
|---------------|--------------------------------------|---------------------|
| 250           | 9<br>(228.60)                        | 4-3/4<br>(120.70)   |
| 600           | 12<br>(304.80)                       | 4-61/64<br>(125.81) |

(1) Dimension "A" must be held to achieve fuse block rejection function.

## Fuse Size 401...600 A

Fuse Block, 600 A, Class H, R, and J, 250/600V



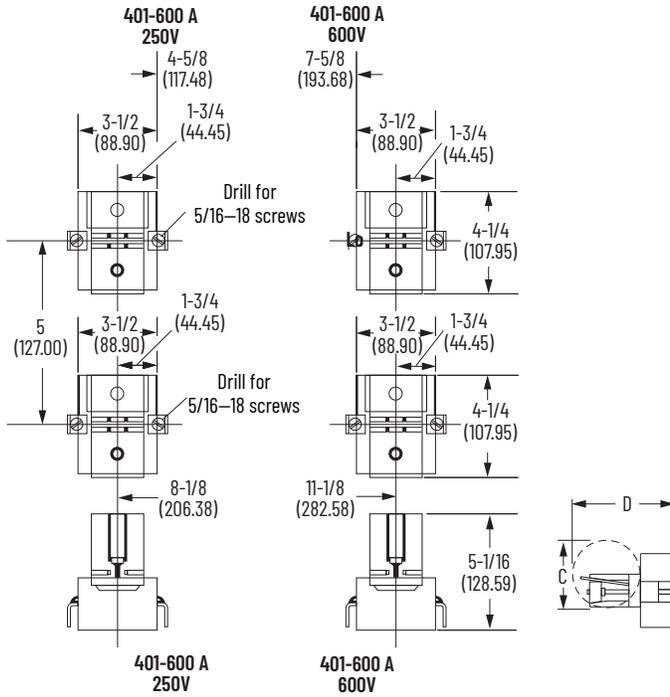
| Voltage [ V ] | Class H or R       |                   |                   |                  | Class J       |                  |
|---------------|--------------------|-------------------|-------------------|------------------|---------------|------------------|
|               | (A)                | (B)               | C                 | D                | (A)           | (B)              |
| 250           | 8-1/8<br>(206.38)  | 4-5/8<br>(117.47) | 2-13/16<br>(71.4) | 5-1/4<br>(133.4) | —             | —                |
| 600           | 11-1/8<br>(282.57) | 7-5/8<br>(193.68) | 3-1/16<br>(77.8)  | 5-1/2<br>(139.7) | 5<br>(127.00) | 2-1/2<br>(63.50) |

Cat. No. 1491-N621  
Cat. No. 1491-R621



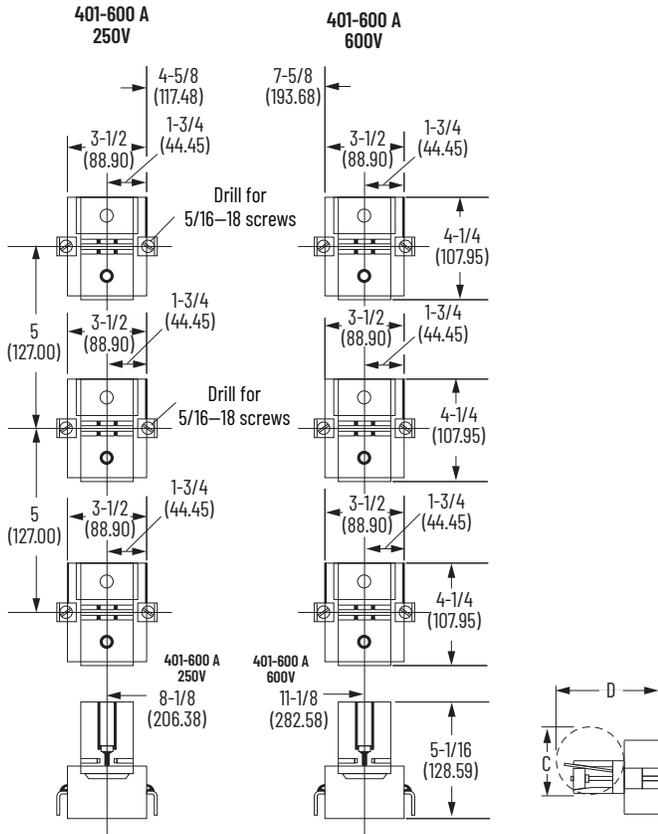
When fuse blocks are installed in a vertical plane, the block with the rejection must be on the bottom. Fuse blocks with wedge type clamps (61 A and above) can be oriented to mount all fuses either to the left or to the right of fuse clamp centers.

Fuse Blocks, 400 A Termination Only, 250/600V, 2 Pole



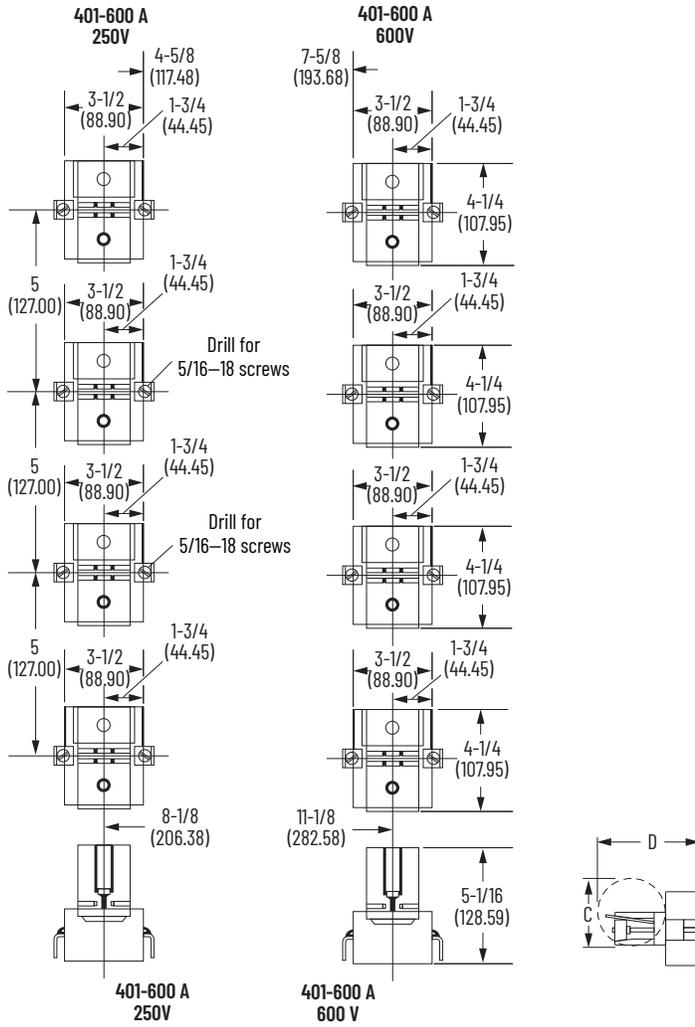
Cat. No. 1491-N621 (quantity of 2)

Fuse Blocks, 400 A Termination Only, 250/600V, 3 Pole



Cat. No. 1491-N621 (quantity of 3)

Fuse Blocks, 400 A Termination Only, 250/600V, 4 Pole



Cat. No. 1491-N621 (quantity of 4)

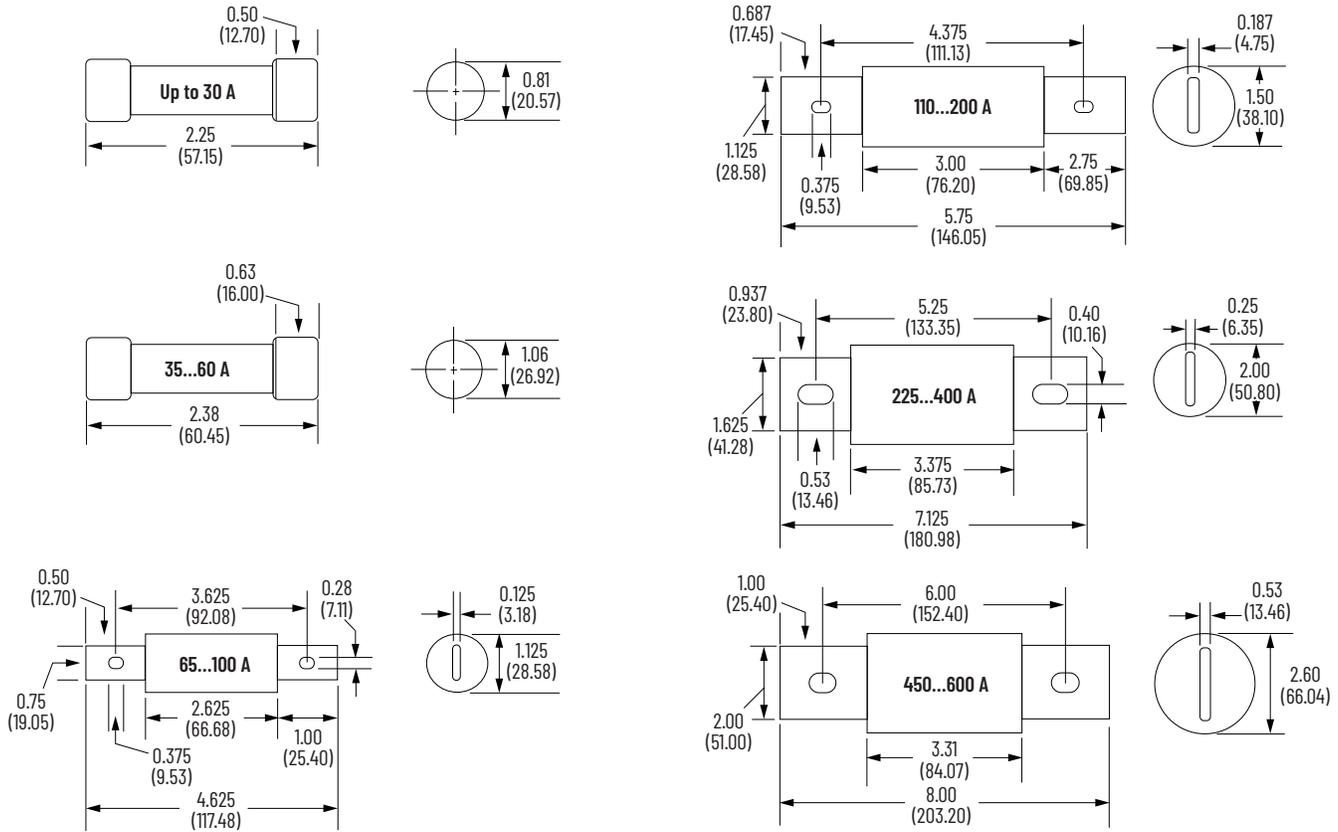
## General Data

### Fuses

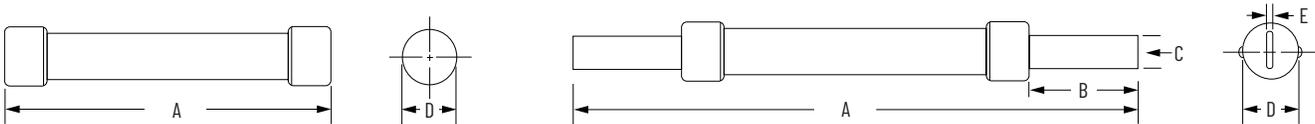
#### Approximate Dimensions

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

#### Class J

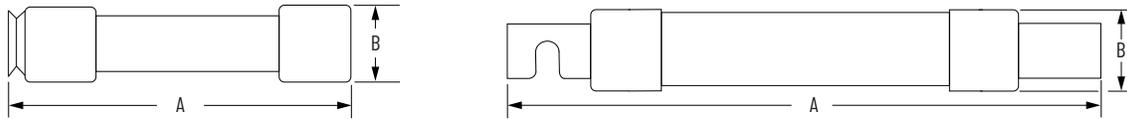


#### Class H



| Voltage | Amperage    | A              | B            | C            | D            | E           |
|---------|-------------|----------------|--------------|--------------|--------------|-------------|
| 250V    | Up to 30 A  | 2.00 (50.80)   | —            | —            | 0.56 (14.22) | —           |
|         | 35...60 A   | 3.00 (76.20)   | —            | —            | 0.81 (20.57) | —           |
|         | 70...100 A  | 5.88 (149.35)  | 1.00 (25.40) | 0.75 (19.05) | 1.06 (26.92) | 0.13 (3.30) |
|         | 110...200 A | 7.13 (181.10)  | 1.38 (35.05) | 1.13 (28.70) | 1.63 (41.40) | 0.19 (4.83) |
|         | 225...400 A | 8.63 (219.20)  | 1.88 (47.75) | 1.63 (41.40) | 2.13 (54.10) | 0.25 (6.35) |
|         | 450...600 A | 10.40 (264.16) | 2.25 (57.15) | 2.00 (50.80) | 2.63 (66.80) | 0.25 (6.35) |
| 600V    | Up to 30 A  | 5.00 (127.00)  | —            | —            | 0.81 (20.57) | —           |
|         | 35...60 A   | 5.50 (139.70)  | —            | —            | 1.09 (27.69) | —           |
|         | 70...100 A  | 7.88 (200.15)  | 1.00 (25.40) | 0.75 (19.05) | 1.38 (35.05) | 0.13 (3.30) |
|         | 110...200 A | 9.63 (244.60)  | 1.38 (35.05) | 1.13 (28.70) | 1.88 (47.75) | 0.19 (4.83) |
|         | 225...400 A | 11.60 (294.64) | 1.88 (47.75) | 1.63 (41.40) | 2.63 (66.80) | 0.25 (6.35) |
|         | 450...600 A | 13.40 (340.36) | 2.25 (57.15) | 2.00 (50.80) | 3.13 (79.50) | 0.25 (6.35) |

## Class R



| Voltage | Amperage    | A              | B            |
|---------|-------------|----------------|--------------|
| 250V    | Up to 30 A  | 2.00 (50.80)   | 0.56 (14.22) |
|         | 35...60 A   | 3.00 (76.20)   | 0.81 (20.57) |
|         | 70...100 A  | 5.88 (149.35)  | 1.16 (29.46) |
|         | 110...200 A | 7.13 (181.10)  | 1.66 (42.16) |
|         | 225...400 A | 8.63 (219.20)  | 2.38 (60.45) |
|         | 450...600 A | 10.38 (263.65) | 2.88 (73.15) |
| 600V    | Up to 30 A  | 5.00 (127.00)  | 0.81 (20.57) |
|         | 35...60 A   | 5.50 (139.70)  | 1.06 (26.92) |
|         | 70...100 A  | 7.88 (200.15)  | 1.34 (34.04) |
|         | 110...200 A | 9.63 (244.60)  | 1.84 (46.74) |
|         | 225...400 A | 11.63 (295.40) | 2.59 (65.79) |
|         | 450...600 A | 13.38 (339.85) | 3.13 (79.50) |

## NEMA Ratings and Test Values for auxiliary contacts

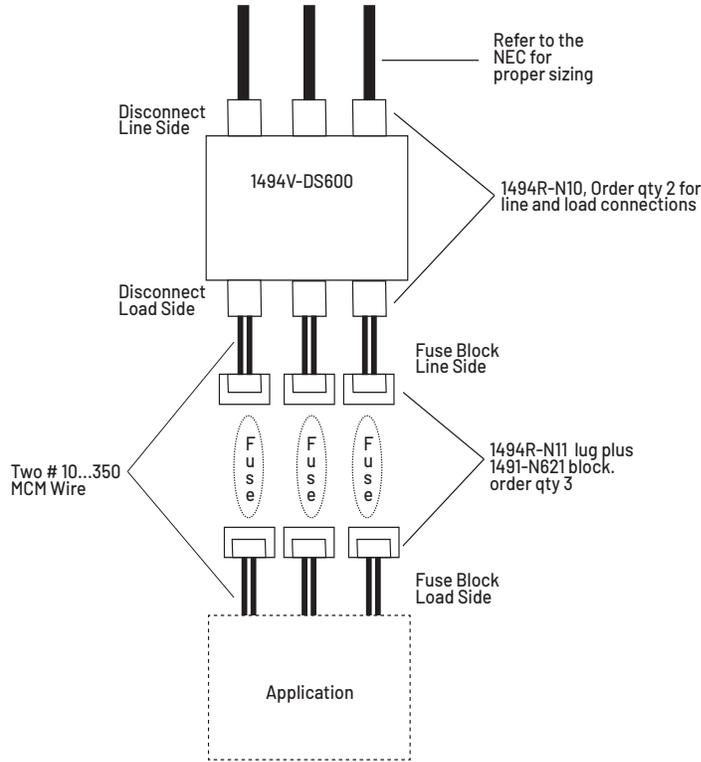
## NEMA Ratings and Test Values for AC Control Circuit Contacts at 50 Hz or 60 Hz

| NEMA Contact Rating Designation | Thermal Continuous Test Current [A] | Maximum Current [A] |       |      |       |      |       |      |       |      |       |
|---------------------------------|-------------------------------------|---------------------|-------|------|-------|------|-------|------|-------|------|-------|
|                                 |                                     | 120V                |       | 240V |       | 480V |       | 600V |       | VA   |       |
|                                 |                                     | Make                | Break | Make | Break | Make | Break | Make | Break | Make | Break |
| A600                            | 10                                  | 60                  | 6.00  | 30   | 3.00  | 15   | 1.50  | 12   | 1.20  | 7200 | 720   |
| C300                            | 2.5                                 | 15                  | 1.50  | 7.5  | 0.75  | —    | —     | —    | —     | 1800 | 1800  |

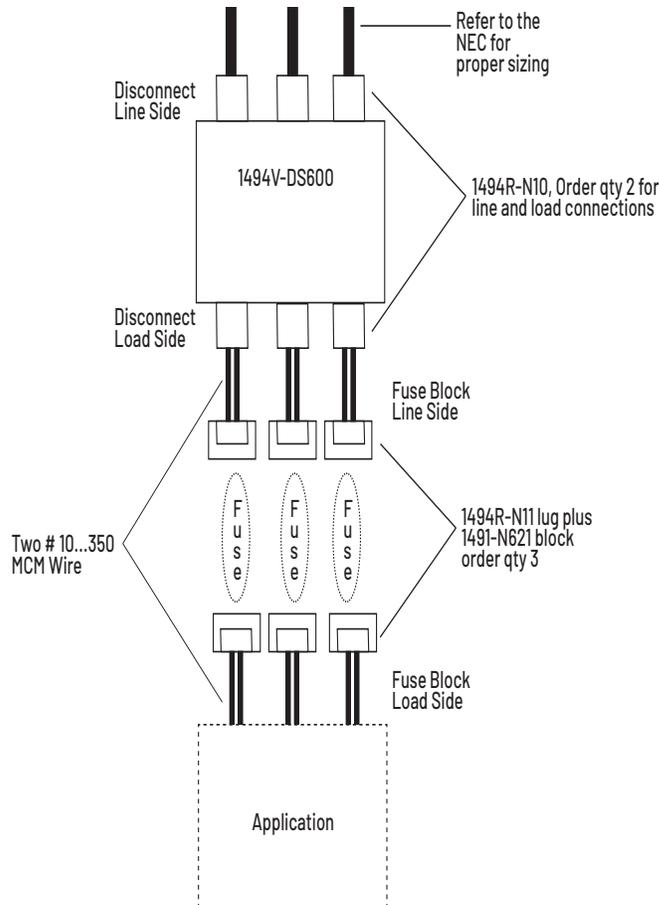
## NEMA Ratings and Test Values for DC Control Circuit Contacts

| NEMA Contact Rating Designation | Thermal Continuous Test Current [A] | Maximum Current [A] |       |      |            | Make or Break at 300V or less [VA] |
|---------------------------------|-------------------------------------|---------------------|-------|------|------------|------------------------------------|
|                                 |                                     | 5...28V             | 125V  | 250V | 301...600V |                                    |
| Q600                            | 2.5                                 | 2.5                 | 0.55  | 0.27 | 0.11       | 69                                 |
| R150                            | 1.0                                 | 1.0                 | 0.224 | —    | —          | 28                                 |

### 1494U-R600 Kit



### 1494U Application for 600A H Style



## Additional Resources

These documents contain additional information concerning related products from Rockwell Automation. You can view or download publications at [rok.auto/literature](http://rok.auto/literature).

| Resource  | Description   |
|---|---|
| Installing Your Main Disconnect Handle Just Became Easy, publication <a href="#">1494U-AT001</a>  | Provides information on use of flex cable operating mechanisms.   |
| Universal Disconnect Switch (30 A, 60 A, 100 A) Installation Instructions publication <a href="#">1494U-IN001</a>   | Provides information for 30 A, 60 A, and 100 A disconnect switch installation.  |
| Universal Disconnect Switch (200 A) Installation Instructions, publication <a href="#">1494U-IN007</a>  | Provides information for 200 A disconnect switch installation.  |
| IP20 Protective Cover (200 A) Installation Instructions, publication <a href="#">1494U-IN009</a>  | Provides information for IP20 protective cover installation.  |
| IP1XB Protective Cover (400 A) Installation Instructions, publication <a href="#">1494U-IN010</a>   | Provides information for IP1XB protective cover installation.   |
| Universal Disconnect Switch (400 A) Installation Instructions, publication <a href="#">1494U-IN012</a>  | Provides information for 400 A disconnect switch installation.  |
| Universal Disconnect Switch (600 A) Installation Instructions, publication <a href="#">1494V-IN028</a>  | Provides information for 600 A disconnect switch installation.  |
| Fuse Cover with Door Installation, Bulletin 1494V Disconnect Switch (400 A/ 600 A), publication <a href="#">1495-IN003</a>  | Provides information to install and remove a fuse cover with door.  |
| Bulletin 1495 Protective Fuse Cover for use with Separately Mounted Cat. No. 1491-N621 or 1491-R621 (600 A) Fuse Block Kits Installation Instructions, publication <a href="#">1495-IN012</a>   | Provides information for fuse cover installation.   |
| Fuse Blocks: Bulletin 1491 (201...600 A/250...600V) Dimensions, publication <a href="#">1491-DS003</a>  | Provides information for Cat. No. 1491-N621 or Cat. No. 1491-R621 installation.   |
| Universal Disconnect Switch (30 A, 60 A, 100 A) Installation Instructions, publication <a href="#">1494U-IN001</a>  | Provides information for 30 A, 60 A, and 100 A disconnect switch installation.  |
| Universal Disconnect Switch (200 A) Installation Instructions, publication <a href="#">1494U-IN007</a>  | Provides information for 200 A disconnect switch installation.  |
| IP20 Protective Cover (200 A) Installation Instructions, publication <a href="#">1494U-IN009</a>  | Provides information for IP20 protective cover installation.  |
| IP1XB Protective Cover (400 A) Installation Instructions, publication <a href="#">1494U-IN010</a>   | Provides information for IP1XB protective cover installation.   |
| Universal Disconnect Switch (400 A) Installation Instructions, publication <a href="#">1494U-IN012</a>  | Provides information for 400 A disconnect switch installation.  |
| Universal Disconnect Switch (600 A) Installation Instructions, publication <a href="#">1494V-IN028</a>  | Provides information for 600 A disconnect switch installation.  |
| Neutral Kit for Bulletin 1494H (Heavy Duty) and Bulletin 1494HL (General Duty) Safety Switches (30 A, 60 A, 100 A, 200 A) Installation Instructions, publication <a href="#">42052-189 (03)</a> | Provides information for neutral/grounding kit installation.  |
| Electrical Interlock Kit for Bulletin 1494H (Heavy Duty) Safety Switches Installation Instructions, publication <a href="#">42052-188 (03)</a>  | Provides information for Bulletin 1494H electrical interlock kit installation.  |
| Conduit Hub for Bulletin 1494H (Heavy Duty) and Bulletin 1494HL (General Duty) Safety Switches in Type 3R Enclosures Installation Instructions, publication <a href="#">42052-166 (02)</a>      | Provides information for Bulletin 1494H and 1494HL conduit hub installation in Type 3R enclosures.  |
| Service Disconnect Ground Kit for Bulletin 1494H (Heavy Duty) and Bulletin 1494HL (General Duty) Safety Switches Installation Instructions, publication <a href="#">42052-165 (02)</a>          | Provides information for Bulletin 1494H and 1494HL service disconnect ground kit installation.  |
| Class R Fuse Kit for Bulletin 1494H (Heavy Duty) Safety Switches Installation Instructions, publication <a href="#">42052-167-01 (05)</a>   | Provides information for Bulletin 1494H Class R fuse kit installation.  |
| Fuse Cover with Door Installation Bulletin 1494V Disconnect Switch - 400 A/600 A, publication <a href="#">1495-IN003</a>  | Provides information for fuse cover with door installation.   |
| Bulletin 1495 Protective Fuse Cover for use with Separately Mounted 1491-N621 or 1491-R621 (600 A) Fuse Block Kits Installation Instructions, publication <a href="#">1495-IN012</a>            | Provides information for fuse cover installation.   |
| UL Standards Listing for Industrial Control Products, publication <a href="#">CMPNTS-SR002</a>  | Assists original equipment manufacturers (OEMs) with construction of panels, to help ensure that they conform to the requirements of Underwriters Laboratories.   |
| American Standards, Configurations, and Ratings: Introduction to Motor Circuit Design, publication <a href="#">IC-AT001</a>   | Provides an overview of American motor circuit design based on methods that are outlined in the National Electrical Code (NEC).   |
| Industrial Components Preventive Maintenance, Enclosures, and Contact Ratings Specifications, publication <a href="#">IC-TD002</a>  | Provides a quick reference tool for Allen-Bradley industrial automation controls and assemblies.  |
| Safety Guidelines for the Application, Installation, and Maintenance of Solid-state Control, publication <a href="#">SGI-1.1</a>  | Designed to harmonize with National Electrical Manufacturers Association (NEMA) Standards Publication No. ICS 1.1-1987 and provides general guidelines for the application, installation, and maintenance of solid-state control in the form of individual devices or packaged assemblies incorporating solid-state components. |
| Industrial Automation Wiring and Grounding Guidelines, publication <a href="#">1770-4.1</a>   | Provides general guidelines for installing a Rockwell Automation industrial system.   |
| Product Certifications website, <a href="http://rok.auto/certifications">rok.auto/certifications</a> .  | Provides declarations of conformity, certificates, and other certification details.   |

# Rockwell Automation Support

Use these resources to access support information.

|   |   |  |
|---|---|--|
| <b>Technical Support Center</b>                         | Find help with how-to videos, FAQs, chat, user forums, Knowledgebase, and product notification updates. | <a href="http://rok.auto/support">rok.auto/support</a>           |
| <b>Local Technical Support Phone Numbers</b>            | Locate the telephone number for your country.   | <a href="http://rok.auto/phonesupport">rok.auto/phonesupport</a> |
| <b>Technical Documentation Center</b>                   | Quickly access and download technical specifications, installation instructions, and user manuals.      | <a href="http://rok.auto/techdocs">rok.auto/techdocs</a>         |
| <b>Literature Library</b>                               | Find installation instructions, manuals, brochures, and technical data publications.                    | <a href="http://rok.auto/literature">rok.auto/literature</a>     |
| <b>Product Compatibility and Download Center (PCDC)</b> | Download firmware, associated files (such as AOP, EDS, and DTM), and access product release notes.      | <a href="http://rok.auto/pcdc">rok.auto/pcdc</a>                 |

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Rockwell Automation maintains current product environmental compliance information on its website at [rok.auto/pec](http://rok.auto/pec).

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