Allen-Bradley

# Disconnect Switch and Circuit Breaker Mechanism Specifications

Bulletin Number 1494


| Topic | Page |
|---|---|
| Summary of Changes | 2 |
| Additional Resources | 2 |
| **Specifications** | |
| Bulletin 1494U Disconnect Switches | 3 |
| Bulletin 1494C, 1494F, 1494G, 1494R, 1494V Disconnect Switches | 4 |
| Bulletin 1494H, 1494HL Disconnect Switches | 5 |
| Bulletin 1494D, 1494V Circuit Breakers | 6 |
| **Approximate Dimensions** | |
| Bulletin 1494U Disconnect Switch and Fuse Block, 30…60 A | 7 |
| Bulletin 1494U Disconnect Switch and Fuse Block, 100 A | 8 |
| Bulletin 1494U Handle with Support Bracket | 9 |
| Bulletin 1494V | 10 |
| Bulletin 1494C | 11 |
| Bulletin 1494F Disconnect Switches | 12 |
| Bulletin 1494F Disconnect Switches Vault Hardware Latching (Enclosures that are not pre-drilled) | 13 |
| Bulletin 1494R Disconnect Switches | 14 |
| Bulletin 1494V | 15 |
| Bulletin 1494D Circuit Breakers | 16 |
| Bulletin 1494G, 1494GX, 1494GY Enclosed Disconnect Safety Switches Type 3R/4/12 (Enclosure Code “F”) Painted Metal Enclosures | 17 |
| Bulletin 1494G, 1494GX, 1494GY Enclosed Disconnect Safety Switches Type 4/4X (Enclosure Code “C”) Stainless Steel Enclosures | 18 |
| Bulletin 1494G Safety Switch — Hazardous Locations | 19 |
| Bulletin 1494H Heavy-Duty Safety Switches Type 1 (Enclosure Code “A”) General-Purpose Painted Metal Enclosures | 20 |
| Bulletin 1494H Heavy-Duty Safety Switches Type 3R (Enclosure Code “N”) Rain-Proof Painted Metal Enclosures | 21 |
| Bulletin 1494H Heavy-Duty Safety Switches Type 12 (Enclosure Code "F") Dust-Tight Painted Metal Enclosures | 22 |
| Bulletin 1494HL General Duty Safety Switches Type 1 (Enclosure Code “A”) General-Purpose Painted Metal Enclosures | 23 |


LISTEN. THINK. SOLVE.®

## Summary of Changes

This publication contains new and updated information as indicated in the following table.

| Topic | Page |
|---|---|
| Updated 1494U specifications | 3 |

## Additional Resources

These documents contain additional information concerning related products from Rockwell Automation®.

| Resource | Description |
|---|---|
| Industrial Automation Wiring and Grounding Guidelines, publication 1770-4.1 | Provides general guidelines for installing a Rockwell Automation industrial system. |
| Product Certifications website, http://www.rockwellautomation.com/global/certification/overview.page | Provides declarations of conformity, certificates, and other certification details. |

You can view or download publications at http://www.rockwellautomation.com/global/literature-library/overview.page. To order paper copies of technical documentation, contact your local Allen-Bradley® distributor or Rockwell Automation sales representative.

## Bulletin 1494U Disconnect Switches

| Disconnect Switch Electrical Ratings | | | | | |
|---|---|---|---|---|---|
| **Switch Size** | | | **30 A** | **60 A** | **100 A** |
| Rated Insulation Voltage (UL) IEC - Ui | | | (600) 1000V | | |
| Ratings UL/CSA/NEMA | Hp | 230V/60 Hz<br>460V/60 Hz<br>575V/60 Hz | 7.5<br>15<br>20 | 15<br>30<br>50 | 30<br>60<br>75 |
| | | 600V DC | 15 | 30 | 50 |
| | Continuous Current, $I_{the}$ | 600V AC<br>600V DC | 30 | 60 | 100 |
| Ratings IEC Applications | Maximum kW (AC23) | 220V/50 Hz<br>440V/50 Hz<br>550V/50 Hz | 5.5<br>11<br>15 | 11<br>22<br>37 | 22<br>45<br>55 |
| **Auxiliary Contact Electrical Ratings** | | | | | |
| 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 | | |
| **Electrical Interlock Ratings** | | | | | |
| Standard Contact 2 N.O. | | NEMA/EEMAC | 10 A: 250V AC, 0.3 A: 250V DC | | |
| **Mechanical** | | | | | |
| 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) | | | 10 000 operations (30…100 A) | | |
| Switching Frequency (operations/hr) | | | 30, 60, and 100 A sizes — 300 maximum | | |
| **Environmental** | | | | | |
| 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 | | |
| Relative Humidity (per IEC 947-1) | | | 90% at 20 °C (68 °F) and 50% at 40 °C (104 °F) | | |
| **Design Specification/Test Requirements** | | | | | |
| Dielectric Strength | | | 2200V for 1 minute | | |
| Electrical Life | | | 6000 operations at rated current | | |
| 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 | | |
| **Construction** | | | | | |
| Switch Body Material | | | Glass-filled thermoplastic | | |
| 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 and Lug Connectors | | Single port, aluminum lug | 30…60 A | (1) #14…2 AWG, copper - aluminum<br>(2) #14…10 AWG, copper<br>(2) #12…10 AWG, aluminum | |
| | | Single port, aluminum lug | 100 A | (2) #12…4 AWG, copper-aluminum<br>(1) #14…1/0 AWG, copper<br>(1) #12…1/0 AWG, aluminum | |
| | | Multi-port, aluminum lug | 30…100 A | (1) #14…4 AWG, copper<br>(1) #12…4 AWG, aluminum<br>(2) #10 AWG, copper-aluminum | |
| | | Single port, copper lug | 30…60 A | (1) #14…4 AWG, copper<br>(2) #14…8 AWG, copper<br>(4) #16 AWG, copper | |
| | | Line Terminal Adapter<br>Single port, copper lug | 30…100 A | (1) #14…8 AWG, copper | |
| | | Line Terminal Adapter<br>Single port, copper lug | 100 A | (1) #8…1/0 AWG, copper | |
| Recommended Torque | | 30 A<br>60 A<br>100 A | **Conductor into Lug**<br>45 lb•in<br>45 lb•in<br>50 lb•in | | **Lug to Terminal**<br>40…60 lb•in<br>40…60 lb•in<br>40…60 lb•in |
| Switches, Mechanisms, and Accessory Kits | | | Zinc-plated steel, RoHS Compliant finish | | |

## Bulletin 1494C, 1494F, 1494G, 1494R, 1494V Disconnect Switches

| Disconnect Switch Electrical Ratings | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Switch Size** | | | **30 A** | **60 A** | **100 A** | **200 A** | **400 A** | **600 A** |
| Rated Insulation Voltage (UL) IEC - Ui | | | (600) 660V | | | | | |
| Ratings UL/CSA/NEMA | Hp | 230V/60 Hz<br>460V/60 Hz<br>575V/60 Hz | 7.5<br>15<br>20 | 15<br>30<br>50 | 30<br>60<br>75 | 60<br>125<br>150 | 125<br>250<br>350 | 200<br>400<br>500 |
| | | 250V DC | 5 | 10 | 20 | 40 | 50 | 50 |
| | Continuous Current, $I_{the}$ | 600V AC<br>250V DC | 30 | 60 | 100 | 200 | 400 | 600 |
| Ratings IEC Applications | Maximum kW (AC23) | 220V/50 Hz<br>440V/50 Hz<br>550V/50 Hz | 5.5<br>11<br>15 | 11<br>22<br>37 | 22<br>45<br>55 | 48<br>90<br>110 | 90<br>185<br>257 | 150<br>295<br>375 |
| **Auxiliary Contact Electrical Ratings** | | | | | | | | |
| Standard Contact 1 N.O. or 1 N.C.(1) | | 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.(1) | | NEMA/EEMAC | C300, R150 | | | | | |
| | | IEC | AC 15, DC 13 to IEC/EN60947-5-1 and UL 508, 5V, 1 mA minimum | | | | | |
| **Electrical Interlock Ratings** | | | | | | | | |
| Standard Contact | 1 N.O. and 1 N.C.<br>2 N.O. and 2 N.C. | NEMA/EEMAC | 20 A: 480V AC, 0.25 A: 250V DC | | | | | |
| **Mechanical** | | | | | | | | |
| 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) | | | 10 000 operations (30…100 A)<br>8000 operations (200 A)<br>6000 operations (400 A)<br>5000 operations (600 A) | | | | | |
| Switching Frequency (operations/hr) | | | 30, 60, 100, and 200 A sizes — 300 maximum<br>400 and 600 A sizes — 240 maximum | | | | | |
| **Environmental** | | | | | | | | |
| 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 | | | | | |
| Relative Humidity (per IEC 947-1) | | | 90% at 20 °C (68 °F) and 50% at 40 °C (104 °F) | | | | | |
| **Design Specification/Test Requirements** | | | | | | | | |
| Dielectric Strength | | | 2200V for 1 minute | | | | | |
| Electrical Life | | | 6000 operations at rated current | | | | | |
| Short Circuit Withstand Capability | | | 10 000 A, 600V AC/250V DC: unfused<br>10 000 A, 600V AC: with Class H fuses<br>200 000 A, 600V AC: with Class J or Class R fuses | | | | | |
| **Construction** | | | | | | | | |
| Switch Body Material | | | Glass-filled thermoset plastic | | | | | |
| Terminals | | 30 A<br>60 A<br>100 A<br>200 A<br>400 A<br>600 A | #10 - 32 screw and self-lifting pressure plate<br>1/4 in. - 28 screw-lug, copper<br>5/16 in. - 24 screw-lug, copper<br>3/8 in. - 24 screw-lug, copper<br>3/8 in. - 24 screw-lug, copper<br>1/2 in. - 13 screw-lug, copper | | | | | |
| 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 ($mm^2$) | | 30 A<br>60 A<br>100 A<br>200 A<br>400 A<br>600 A | #14…8 AWG (1.5…10 $mm^2$)<br>#14…4 AWG (2.5…16 $mm^2$)<br>#8…1/0 AWG (10…50 $mm^2$)<br>#6…4/0 AWG (16…95 $mm^2$)<br>2 of #1/0 AWG…250 MCM (2 per lug) 2 of 185 $mm^2$…250 MCM or (1) #4 AWG…500 MCM<br>2 of #1/0 AWG…350 MCM (2 per lug) 2 of 185 $mm^2$…350 MCM or (1) #4 AWG…500 MCM | | | | | |
| Recommended Torque | | | **Conductor into Lug** | | | **Lug to Terminal** | | |
| | | 30 A | 20 lb•in | | | 20 lb•in | | |
| | | 60 A | 45 lb•in | | | 50 lb•in | | |
| | | 100 A | 150 lb•in | | | 90 lb•in | | |
| | | 200 A | 275 lb•in | | | 175 lb•in | | |
| | | 400 A | 275 lb•in | | | 175 lb•in | | |
| | | 600 A | 275 lb•in | | | 275 lb•in | | |
| Switches, Mechanisms, and Accessory Kits | | | Zinc-plated steel, RoHS Compliant finish | | | | | |

(1) When using a N.C. contact with a 400 A switch in a PLC sensing circuit, a false indicator may occur. To avoid the false indicator, add a 30 ms time delay into the circuit or add a N.O. contact next to the N.C. contact.

## Bulletin 1494H, 1494HL Disconnect Switches

| Disconnect Switch Electrical Ratings | | | | | | |
|---|---|---|---|---|---|---|
| **Switch Size** | | | **30 A** | **60 A** | **100 A** | **200 A** |
| Rated Insulation Voltage (UL) IEC - Ui | | | (600) 660V | | | |
| Ratings UL/CSA/NEMA | Hp | 230V/60 Hz<br>460V/60 Hz<br>575V/60 Hz | 10<br>20<br>30 | 20<br>50<br>60 | 40<br>75<br>100 | 60<br>125<br>150 |
| | | 250V DC | 5 | 10 | 20 | 40 |
| | Continuous Current, $I_{the}$ | 600V AC<br>250V DC | 30 | 60 | 100 | 200 |
| **Auxiliary Contact Electrical Ratings** | | | | | | |
| Continuous Current | | | 10 A | 15 A | | |
| Pole Configuration | | | DPDT | DPDT | | |
| **Mechanical** | | | | | | |
| Degree of Protection | | Operating handles | Painted Type 1, 3R, 12 | | | |
| Mechanical Life (Typical) | | | 10 000 operations | | | |
| Switching Frequency (operations/hr) | | | 300 maximum | | | |
| **Environmental** | | | | | | |
| Ambient Temperature | | Operating | -35…+40 °C (-31…+104 °F) | | | |
| | | Storage | -40…+65 °C (-40…+149 °F) | | | |
| Altitude (per IEC 947-5) | | | 2000 m | | | |
| Relative Humidity (per IEC 947-3) | | | 90% at 20 °C (68 °F) and 50% at 40 °C (104 °F) | | | |
| **Design Specification/Test Requirements** | | | | | | |
| 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 (30…100 A)<br>100 000 A: with Class J or Class R fuses (200 A) | | | |
| **Construction** | | | | | | |
| Switch Body Material | | | Phenolic | | | |
| Contact Material | | | Copper, tin-plated | | | |
| Terminals | | 30 A<br>60 A<br>100 A<br>200 A | #10 - 32 screw and self-lifting pressure plate<br>1/4 in. - 28 screw-lug, copper<br>5/16 in. - 24 screw-lug, copper<br>3/8 in. - 24 screw-lug, copper | | | |
| 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 ($mm^2$) | | 30 A<br>60 A<br>100 A<br>200 A | #14…8 AWG<br>#12…2 AWG<br>#10…1/0 AWG<br>#2…250 MCM AWG | | | |
| Recommended Torque | | 30 A<br>60 A<br>100 A<br>200 A | **Conductor into Lug**<br>36…40 lb•in<br>35…45 lb•in<br>35…50 lb•in<br>275 lb•in | | | |
| Mechanisms | | | Zinc-plated steel, bronze chromate finish | | | |

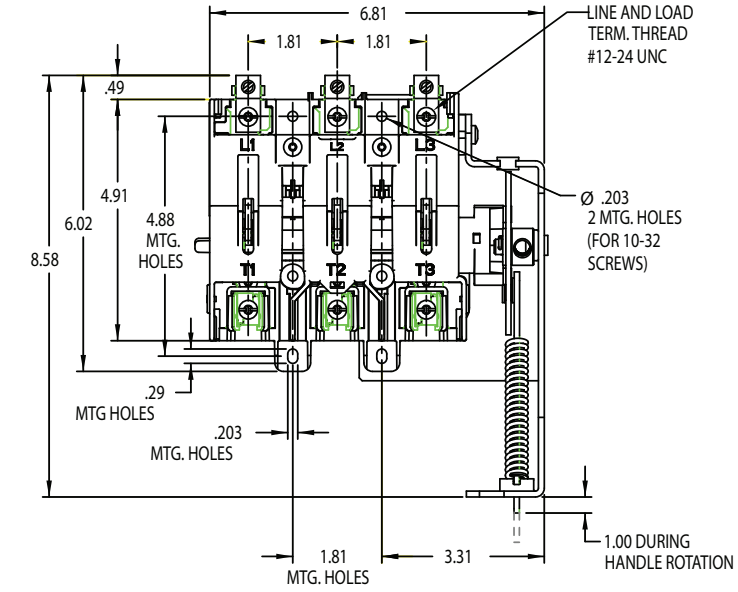
## Bulletin 1494D, 1494V Circuit Breakers

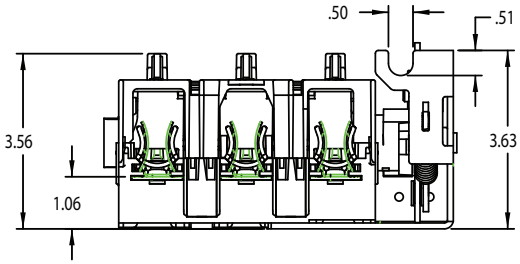
| Electrical Ratings | | | | | | | | |
|---|---|---|---|---|---|---|---|---|
| **Frame Size** | | **125 A** | **150 A** | **250 A** | **400 A** | **600 A** | **800 A** | **1200 A** |
| **Auxiliary Contacts** | | | | | | | | |
| Ratings<br>NEMA/EEMAC | | B600, P300 | | | | | | |
| Ratings<br>IEC Applications | | ACII $U_x$ | | 12…120V<br>220…240V<br>380…400V<br>500…600V | | $I_e$ | | 6 A<br>3 A<br>1.5 A<br>1.2 A |
| Maximum Number of Auxiliary Contacts | | 2 | | | | | | |
| **Mechanical** | | | | | | | | |
| Mechanical Life (Typical) | | 10 000 operations | | | | | | |
| **Environmental** | | | | | | | | |
| Ambient Temperature (1) | Operating | -20…+40 °C (-4…+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) | | | | | | |
| **Construction** | | | | | | | | |
| Mechanisms | | Zinc-plated steel | | | | | | |

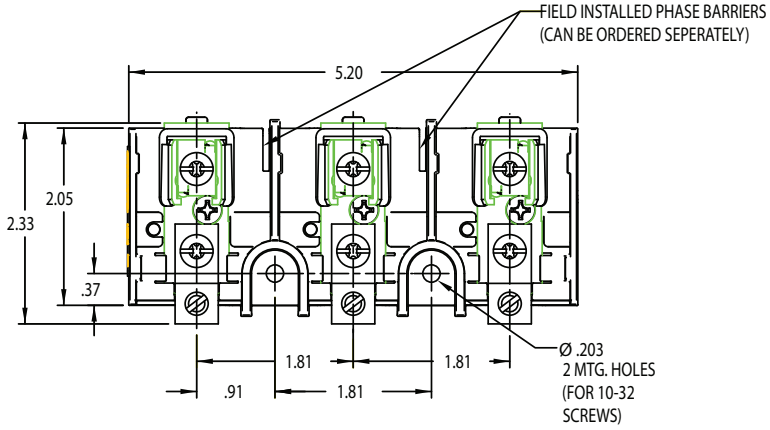
(1) See circuit breaker specifications for other limitations.

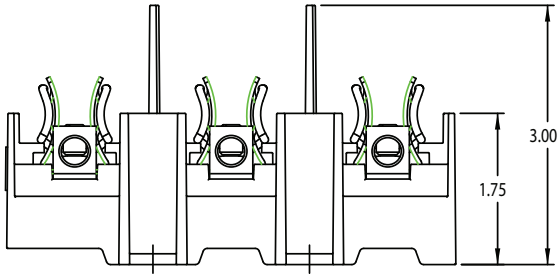
## Bulletin 1494U Disconnect Switch and Fuse Block, 30…60 A

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



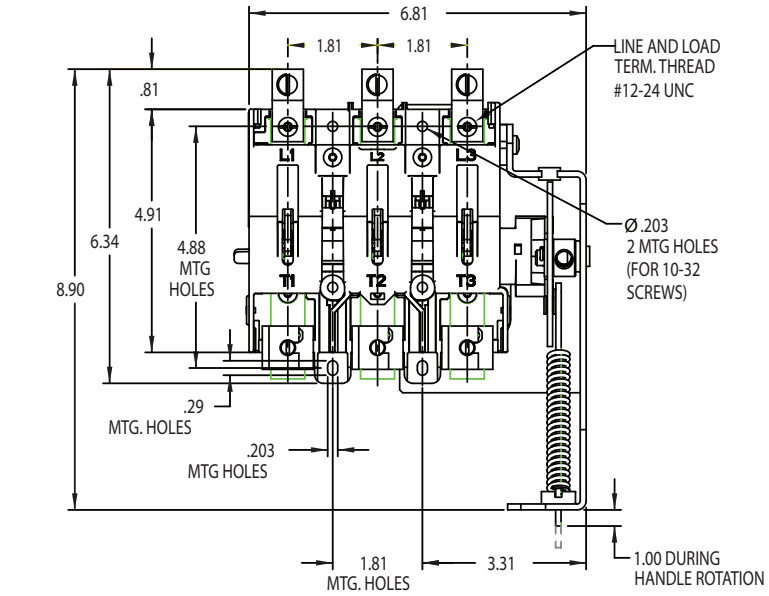



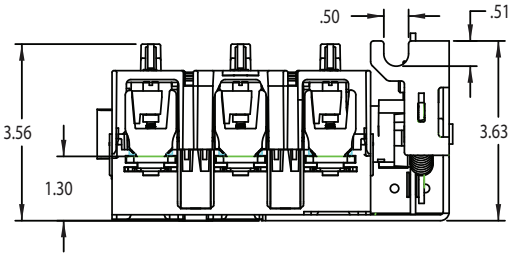



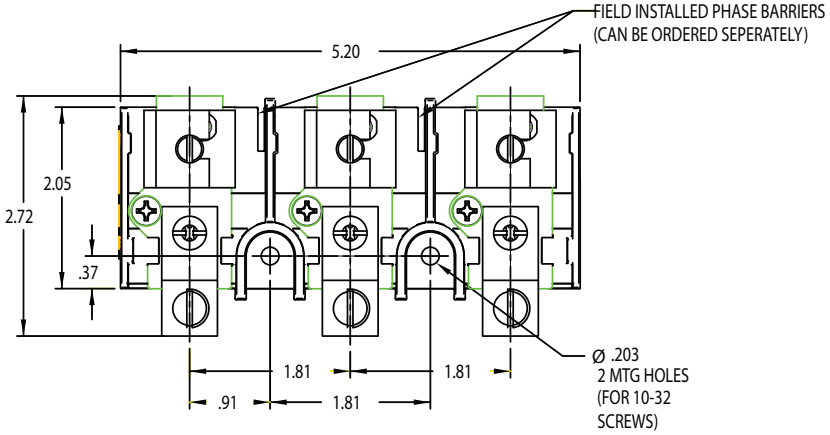



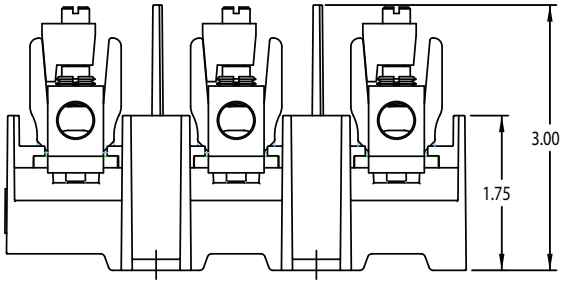
## Bulletin 1494U Disconnect Switch and Fuse Block, 100 A

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



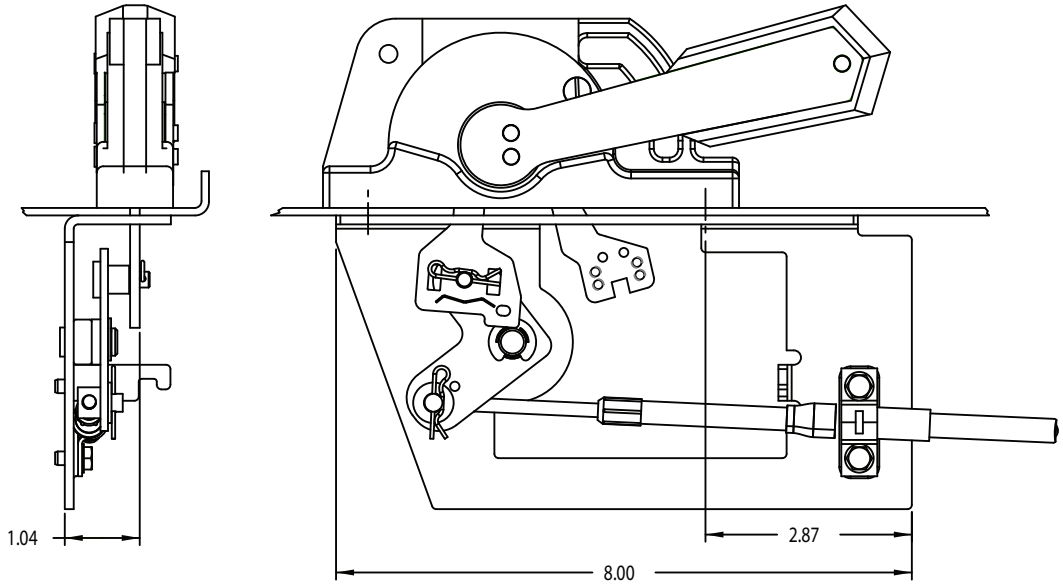



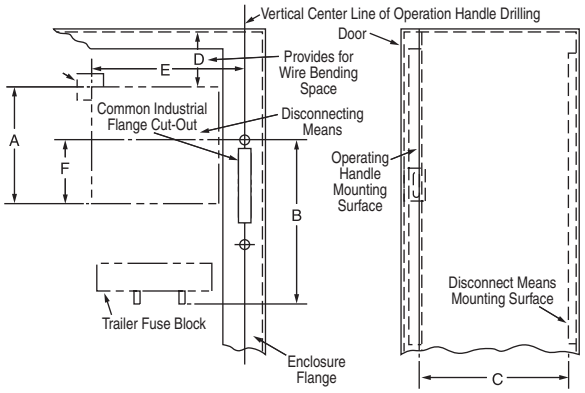
### Bulletin 1494U Handle with Support Bracket

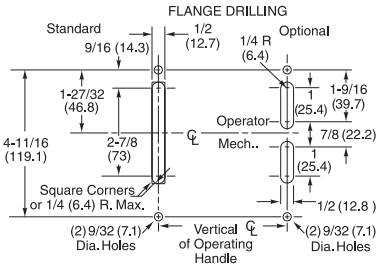
Approximate dimensions are shown in inches. Dimensions are not intended for to be used manufacturing purposes.



## Bulletin 1494V

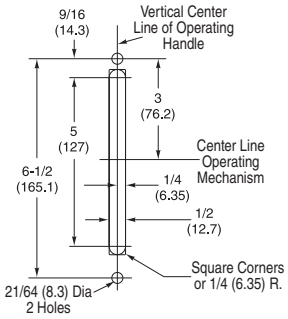
Approximate dimensions are shown in inches (millimeters). Dimensions are not intended to be used for manufacturing purposes.




*Flange Cut-Out*

**Bulletin 1494V — 30…200 A**




*Flange Cut-Out*

**Bulletin 1494V — 400…600 A**

*Disconnect Switches (Approximate dimensions are for reference only.)*

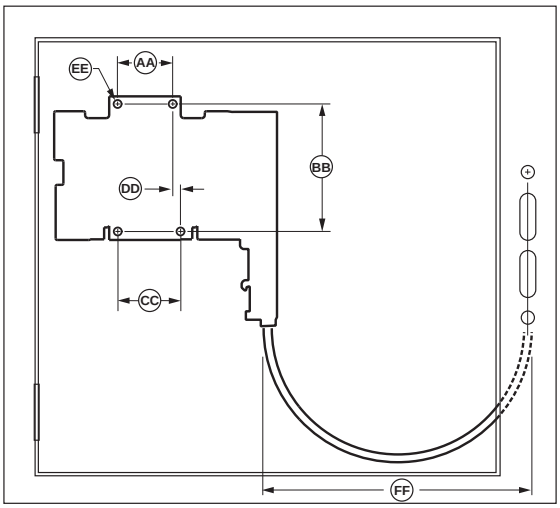
| NEMA Size [A] | A | B (1) | C | | D | E | F | Switch Mounting Hole Diameter |
|---|---|---|---|---|---|---|---|---|
| | | Maximum | Minimum | Maximum | | | | |
| 30 | 6-19/64 (160) | 7-31/32 (202) | 6-3/4 (171) | 21-5/8 (549) | 2-3/4 (69.9) | 7-9/16 (192) | 3-7/8 (98.5) | 7/32 in. |
| 60 | 6-19/64 (160) | 8-15/32 (215) | 6-3/4 (171) | 21-5/8 (549) | 2-9/16 (65.1) | 7-9/16 (192) | 3-7/8 (98.5) | 7/32 in. |
| 100 | 6-19/64 (160) | 9-1/8 (231.8) | 6-3/4 (171) | 21-5/8 (549) | 3-37/64 (90.9) | 7-9/16 (192) | 3-7/8 (98.5) | 7/32 in. |
| 200 | 8-5/64 (205.2) | 15-9/64 (384.5) | 9-1/2 (241.3) | 21-5/8 (549) | 6-35/64 (166.3) | 8-25/32 (223) | 4-21/32 (118) | 19/64 in. |
| 400 | 11 (279.4) | 18-7/32 (462.7) | 10-1/2 (266.7) | 21-5/8 (549) | 8 (203.2) | 10 (254) | 5-1/2 (139.7) | 11/32 in. |
| 600 | 15-23/32 (399.2) | 17-19/32 (446.8) (2) | 10-1/2 (266.7) | 21-5/8 (549) | 12 (304.8) | 11-27/32 (300.8) | 8-51/64 (223.3) | 11/32 in. |

(1) This approximate dimension varies by fuse class and size.

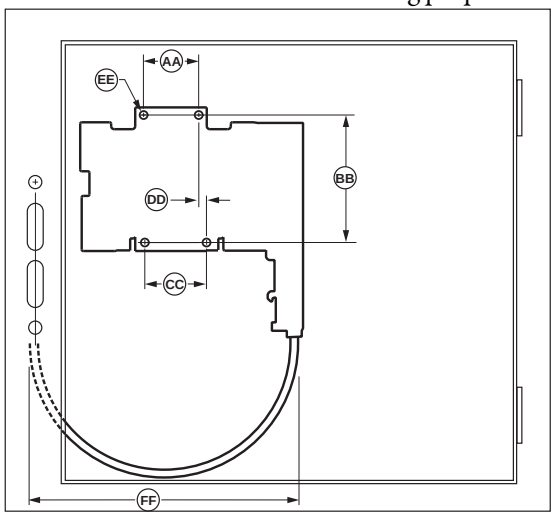
(2) Approximate dimension with Class J fuses.

## Bulletin 1494C

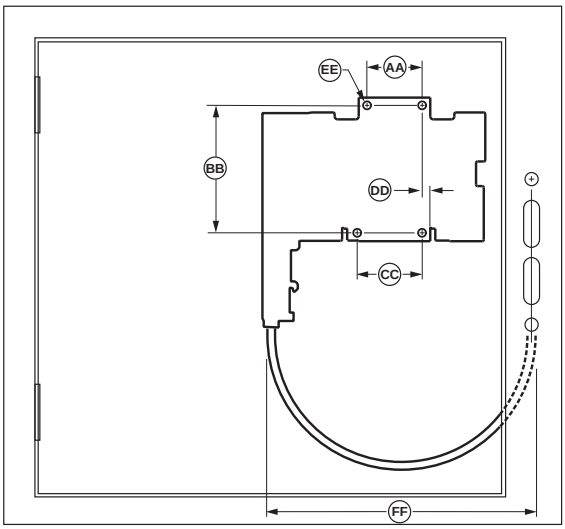
Approximate dimensions are shown in inches. Dimensions are not intended to be used for manufacturing purposes.



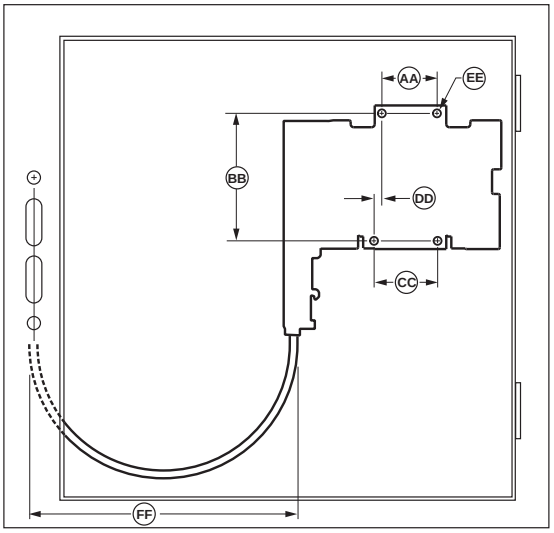

**Enclosure with Right Hand Flange**




**Enclosure with Left Hand Flange**




**Enclosure with Right Hand Flange**




**Enclosure with Left Hand Flange**

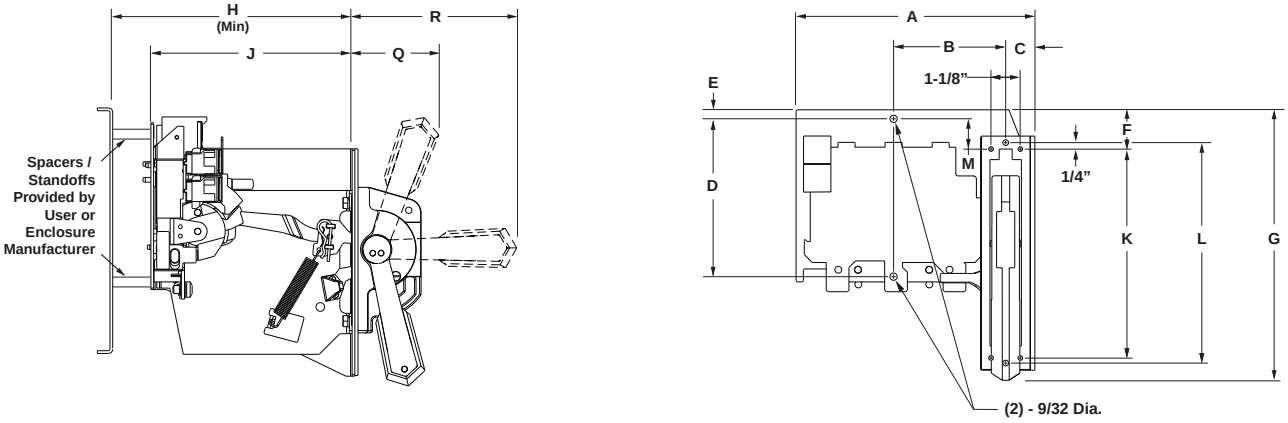
*Disconnect Switches*

| NEMA Size [A] | AA | B B | CC | DD | EE<br>Mounting Plate Hole Diameter | FF<br>Minimum Bevel Diameter |
|---|---|---|---|---|---|---|
| 30 | 2-1/4<br>(57.2) | 5-1/4<br>(133.4) | 2-1/4<br>(57.2) | — | 7/32<br>(5.54) | 12<br>(304.8) |
| 60 | 2-1/4<br>(57.2) | 5-1/4<br>(133.4) | 2-1/4<br>(57.2) | — | 7/32<br>(5.54) | 12<br>(304.8) |
| 100 | 2-1/4<br>(57.2) | 5-1/4<br>(133.4) | 2-1/4<br>(57.2) | — | 7/32<br>(5.54) | 12<br>(304.8) |
| 200 | 2<br>(50.8) | 8-1/4<br>(209.6) | 4-1/4<br>(108) | 1-1/8<br>(28.6) | 7/32<br>(5.54) | 16<br>(406.4) |
| 400 | 2<br>(50.8) | 11<br>(279.4) | 4-3/4<br>(120.7) | 1-3/8<br>(34.9) | 9/32<br>(7.14) | 16<br>(406.4) |
| 600 | 8-1/4<br>(209.6) | 15<br>(381) | 8-1/4<br>(209.6) | — | — | 16<br>(406.4) |

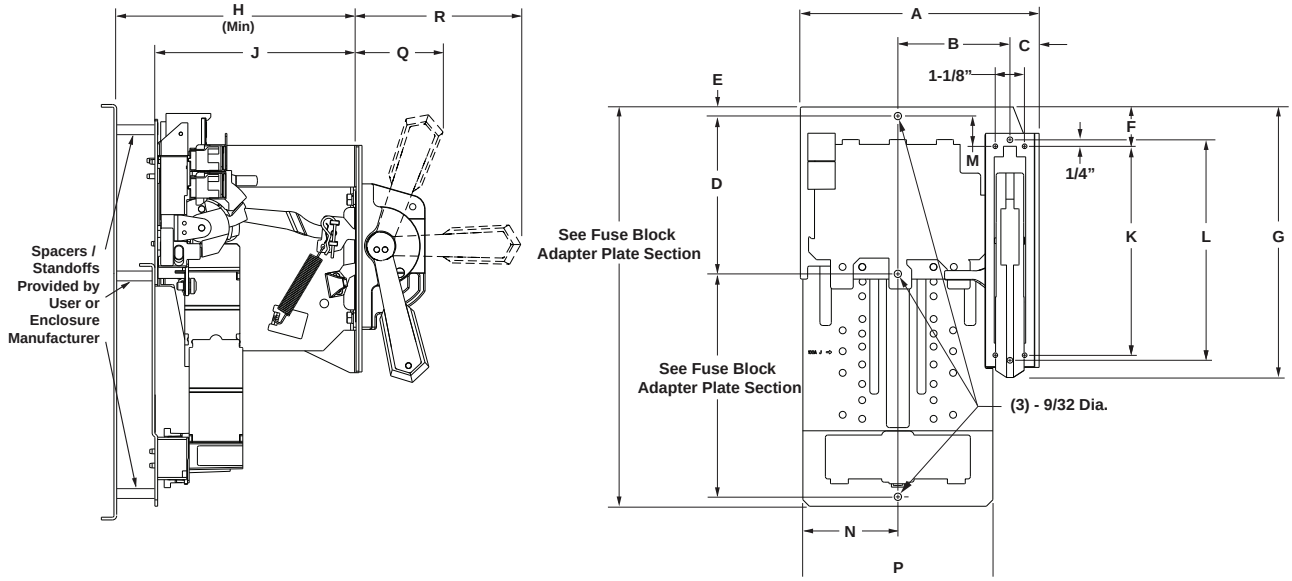
## Bulletin 1494F Disconnect Switches

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

### Non-Fusible Disconnect Switch



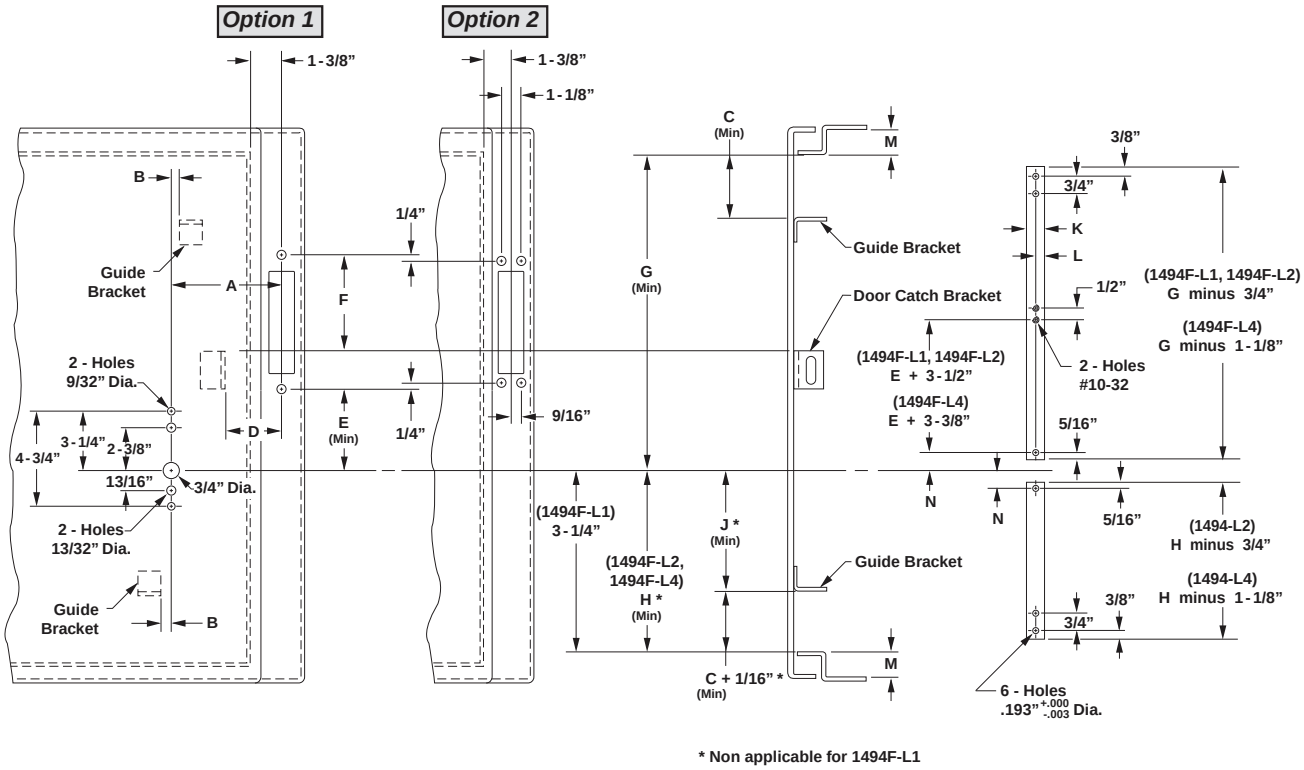

### Fusible Disconnect Switch




| Switch Size [A] | A | B | C | D | E | F | G | H | J | K | L | M | N | P | Q | R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 30 | 9-3/16 (233.4) | 4-5/16 (109.5) | 1-1/8 (28.6) | 6 (152.4) | 3/8 (9.5) | 1-9/16 (39.7) | 10-1/2 (266.7) | 8-1/2 (215.9) | 6-7/8 (174.6) | 8 (203.2) | 8-1/2 (215.9) | 15/16 (23.8) | 3-21/32 (92.9) | 7-5/16 (185.7) | 3 (76.2) | 5-7/16 (138.1) |
| 60 | 9-3/16 (233.4) | 4-5/16 (109.5) | 1-1/8 (28.6) | 6 (152.4) | 3/8 (9.5) | 1-9/16 (39.7) | 10-1/2 (266.7) | 8-1/2 (215.9) | 6-7/8 (174.6) | 8 (203.2) | 8-1/2 (215.9) | 15/16 (23.8) | 3-21/32 (92.9) | 7-5/16 (185.7) | 3 (76.2) | 5-7/16 (138.1) |
| 100 | 9-3/16 (233.4) | 4-5/16 (109.5) | 1-1/8 (28.6) | 6 (152.4) | 3/8 (9.5) | 1-9/16 (39.7) | 10-1/2 (266.7) | 9-3/4 (247.7) | 8-1/8 (206.4) | 8 (203.2) | 8-1/2 (215.9) | 15/16 (23.8) | 3-21/32 (92.9) | 7-5/16 (185.7) | 3 (76.2) | 5-7/16 (138.1) |
| 200 | 9-5/8 (244.5) | 4-3/4 (120.7) | 1-5/32 (29.4) | 8-3/16 (208) | 7/16 (11.1) | 2 (50.8) | 10-29/32 (277) | 9-3/4 (247.7) | 8-1/8 (206.4) | 8 (203.2) | 8-1/2 (215.9) | 1-5/16 (33.3) | 3-3/4 (95.3) | 7-1/2 (190.5) | 3 (76.2) | 5-7/16 (138.1) |

## Bulletin 1494F Disconnect Switches Vault Hardware Latching (Enclosures that are not pre-drilled)

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

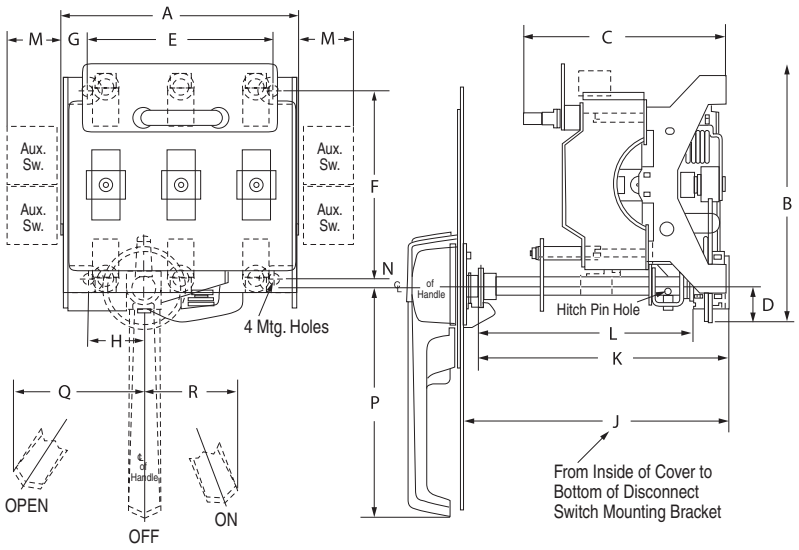



* Non applicable for 1494F-L1

| Vault Hardware Kits | Switch Size [A] | A | B | C (Min.) | D | E (Min.) | F | G (Min.) | H (Min.) | J (Min.) | K | L | M | N |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Small and Intermediate Enclosures | | | | | | | | | | | | | | |
| 1494F-L1<br>1494F-L2<br>1494F-L3 | 30 | 3-7/8 (98.4) | 3/8 (9.5) | 3-1/16 (77.8) | 2-1/8 (54) | 4-1/2 (114.3) | 3-13/16 (96.8) | 13 (330.2) | 8-1/8 (206.4) | 5 (127) | 1/2 (12.7) | 1/4 (6.4) | 11/16 (17.5) | 1/2 (12.7) |
| | 60 | | | | | | | 14 (355.6) | | | | | | |
| | 100 | | | | | | | 18-7/8 (479.4) | | | | | | |
| | 200 | | | | | | | 23-25/32 (604) | | | | | | |
| Large Enclosures | | | | | | | | | | | | | | |
| 1494F-L4 | 30 | 4 (101.6) | 1/2 (12.7) | 3-3/4 (95.3) | 2-1/8 (54) | 5 (127) | 3-13/16 (96.8) | 13-1/8 (333.4) | 9-13/16 (249.2) | 6 (152.4) | 5/8 (15.9) | 5/16 (7.9) | 1-1/4 (31.8) | 3/4 (19.1) |
| | 60 | | | | | | | 13-5/8 (346.1) | | | | | | |
| | 100 | | | | | | | 18-1/2 (469.9) | | | | | | |
| | 200 | | | | | | | 23-13/32 (594.5) | | | | | | |

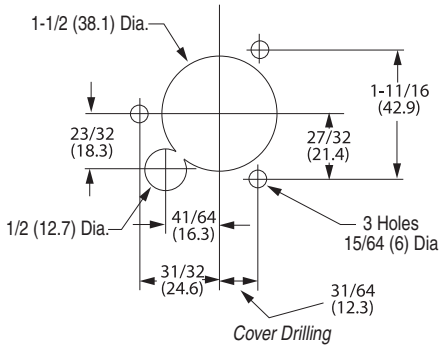
## Bulletin 1494R Disconnect Switches

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




*Switch*

**Bulletin 1494R — 100…200 A**




*Cover Drilling*

**Bulletin 1494R — 100…200 A**

| NEMA Size [A] | A | B | C | D | E | F | G | H | J | | | | K | L | M | N | P | Q | R |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | | | | | | Standard Shaft | | Long Shaft | | | | | | | | |
| | | | | | | | | | Min. | Max. | Min. | Max. | | | | | | | |
| 30 | 3-31/32 (100.8) | 4-13/16 (122.2) | 3-9/16 (90.5) | 1-1/8 (28.6) | 3-1/8 (79.4) | 3-1/8 (79.4) | 27/64 (10.7) | 1 (25.4) | 4-3/8 (111.1) | 10-7/8 (276.2) | 4-3/8 (111.1) | 19-3/8 (492.1) | (1) | (3) | 1 (25.4) | 3/16 (4.8) | 5 (127.0) | 2-13/16 (71.4) | 2-13/16 (71.4) |
| 60 | 4-21/32 (118.3) | 5-1/4 (133.4) | 3-9/16 (90.5) | 1-1/16 (27.0) | 3-13/16 (96.8) | 3-1/8 (79.4) | 27/64 (10.7) | 1 (25.4) | 4-1/2 (114.3) | 10-7/8 (276.2) | 4-1/2 (114.3) | 19-3/8 (492.1) | | | 1 (25.4) | 3/16 (4.8) | 5 (127.0) | 2-13/16 (71.4) | 2-13/16 (71.4) |
| 100 | 6-7/16 (163.5) | 7-3/16 (187.3) | 5-7/16 (138.1) | 15/16 (23.8) | 5 (127.0) | 5 (127.0) | 23/32 (18.3) | 1-1/2 (38.1) | 6-1/4 (158.8) | 12-7/8 (327.0) | 6-1/4 (158.8) | 25-7/8 (657.2) | (2) | (4) | 1-3/8 (34.9) | 1/4 (6.4) | 7-11/16 (195.3) | 4-3/16 (106.4) | 3 (76.2) |
| 200 | 7-1/4 (184.2) | 9-1/2 (241.3) | 6-1/2 (165.1) | 1-7/16 (36.5) | 5-3/4 (146.1) | 5-3/4 (146.1) | 3/4 (19.1) | 1-23/32 (43.7) | 7-7/16 (188.9) | 12-7/8 (327.0) | 7-7/16 (188.9) | 25-7/8 (657.2) | | | 1-3/8 (34.9) | 1/4 (6.4) | 7-11/16 (195.3) | 4-3/16 (106.4) | 3 (76.2) |

(1) The adjusted coupling position is determined by measuring the cabinet depth and subtracting 9/16 in.

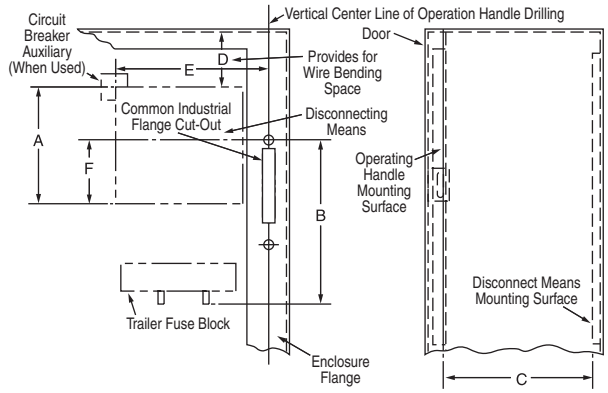
(2) The shaft length is determined by measuring the cabinet depth (dimension J) and subtracting 1-3/8 in.

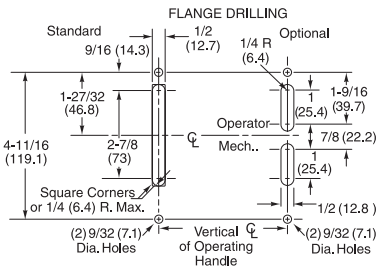
(3) The adjusted coupling position is determined by measuring the cabinet depth and subtracting 15/16 in.

(4) The shaft length is determined by measuring the cabinet depth (dimension J) and subtracting 1-7/8 in.

## Bulletin 1494V

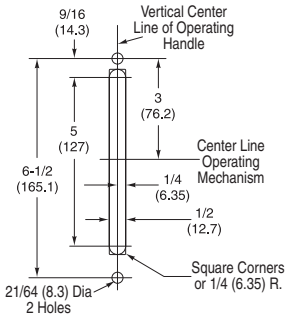
Approximate dimensions are shown in inches. Dimensions are not intended to be used for manufacturing purposes.




*Flange Cut-Out*

**Bulletin 1494V — 125…400 A**




*Flange Cut-Out*

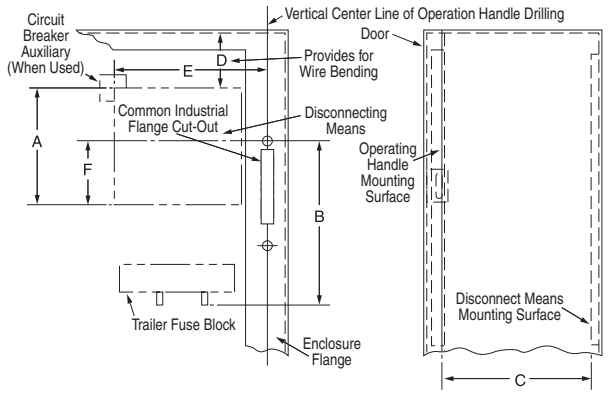
**Bulletin 1494R — 800…1200 A**

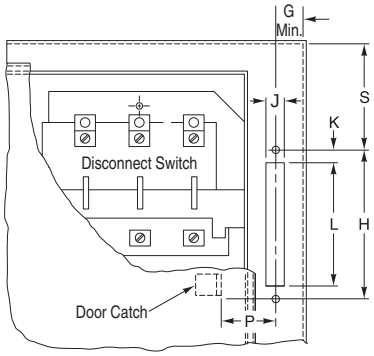
*Bulletin 140G Circuit Breakers (Approximate dimensions are for reference only.)*

| Frame | A | C | | D | E | F |
|---|---|---|---|---|---|---|
| | | Minimum | Maximum | | | |
| 125 A<br>140G-G, -H<br>140MG-G, -H | 5-7/64<br>(130.0) | 6-3/4<br>(171.5) | 23<br>(584.2) | 2<br>(50.8) | 5-3/4<br>(147.0) | 7-13/64<br>(182.8) |
| 225 A<br>140G-I, 140MG-I | 5-13/32<br>(150.0) | 7-7/8<br>(200.0) | 22-9/16<br>(573.1) | 6<br>(152.4) | 5-3/4<br>(147.0) | 7-13/64<br>(182.8) |
| 250 A<br>140G-J, 140MG-J | 6-19/64<br>(160.0) | 7-7/8<br>(200.0) | 22-9/16<br>(573.1) | 6<br>(152.4) | 5-3/4<br>(147.0) | 7-13/64<br>(182.8) |
| 400 A<br>140G-K, 140MG-K | 8.1<br>(204.9) | 7-7/8<br>(200.0) | 22-9/16<br>(573.1) | 12<br>(304.8) | 7-1/4<br>(183.0) | 8-23/64<br>(225.1) |
| 800 A<br>140G-M, 140MG-M | 10-3/64<br>(268.0) | 11-3/16<br>(284.2) | 22-9/16<br>(573.1) | 12<br>(304.8) | 10-3/64<br>(255.2) | 9-3/64<br>(229.6) |
| 1200 A<br>140G-N, 140MG-N | 10-3/64<br>(268.0) | 11-3/16<br>(284.2) | 22-9/16<br>(573.1) | 12<br>(304.8) | 10-3/64<br>(255.2) | 9-3/64<br>(229.6) |

## Bulletin 1494D Circuit Breakers

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



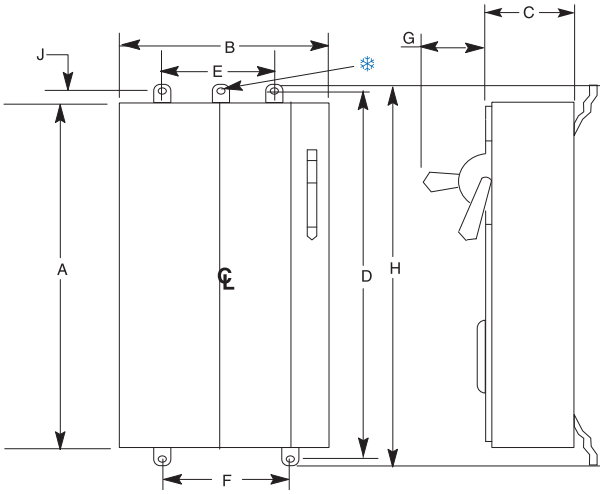

*Flange Cut-Out*

Approximate dimensions are for reference only.

| Cutler-Hammer Frame | A | C | | D | E | F |
|---|---|---|---|---|---|---|
| | | Minimum | Maximum | | | |
| 150 A — EHD, FD, FDB, FDC, HFD, HMCP | 7-13/16 (198.4) | 6-3/8 (161.9) | — | 6 (152.4) | 5-5/8 (142.9) | 6-7/16 (163.5) |
| 250 A — JD, JDB, JDC, HJD, HMCP | 11-1/2 (292.1) | 8-3/8 (212.7) | — | 8 (203.2) | 5-13/16 (147.6) | 9-7/16 (239.7) |
| 400 A — KD, KDB, KDC, HKD, HMCP | 11-1/2 (292.1) | 8-3/8 (212.7) | — | 12 (304.8) | 6-7/8 (174.6) | 9-7/16 (239.7) |
| 600 A — LD, HLD, LDC, LA, HLA, LC, HLC | 11-3/8 (288.9) | 9-1/2 (241.3) | — | 8 (203.2) | 12 (304.8) | 10-17/32 (267.5) |
| 800 A — MA, MDL, HMDL, HMA, MC, ND, HND, NDC | 16 (406.4) | 9-1/2 (241.3) | — | 10 (254) | 12-5/16 (312.7) | 15-3/32 (183.4) |
| 1200 A — NB TRIPAK | 22 (558.8 | 9-1/2 (241.3) | — | 10 (254) | 12-5/16 (312.7) | 21-3/32 (535.8) |
| 1200 A — HNC, ND, HND, NDC, NB, HNB, NC, HNC | 16 (406.4) | 9-1/2 (241.3) | — | 12 (304.8) | 12-5/16 (312.7) | 25-3/32 (183.4) |

## Bulletin 1494G, 1494GX, 1494GY Enclosed Disconnect Safety Switches
## Type 3R/4/12 (Enclosure Code "F") Painted Metal Enclosures

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



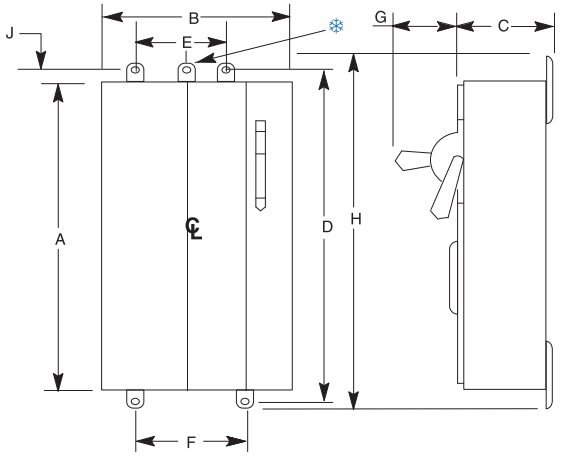

| Size [A] | Fuse Style(1) | Number of Poles | Bulletin Number | Approximate Dimensions in Inches (Millimeters) | | | | | | | | | Approx. Shipping Weight [lb (kg)] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | A Height | B Width | C Depth | D Mounting | E Mounting | F Mounting | G Handle Depth | H | J | |
| 30 | A | 2 or 3 | 1494G | 13-5/16 (338) | 10-1/2 (267) | 8-1/4 (210) | 14-11/16 (373) | (2) | 5-1/4 (133) | 5-9/16 (141) | 15-21/32 (398) | 11/32 (9) | 20 60 (9.07) |
| 60 | | | | | | | | | | | | | |
| 30 | B | 2 or 3 | 1494G | 20 (509) | 10-1/2 (267) | 10-3/16 (259) | 21-7/16 (545) | (2) | 5-1/4 (133) | 5-9/16 (141) | 22-13/32 (569) | 11/32 (9) | 30 60 (13.6) |
| 60 | | | | | | | | | | | | | |
| 100 | A | | | | | | | | | | | | |
| 30 | C | 6 | 1494G | 27-1/2 (698) | 10-1/2 (267) | 8-1/4 (210) | 28-7/8 (733) | (2) | 5-1/4 (133) | 5-9/16 (141) | 29-7/8 (759) | 13/16 (21) | 60 (27.21) |
| | D | | | | | | | | | | | | |
| 60 | C | | | | | | | | | | | | |
| | D | | | | | | | | | | | | |
| 30 | A | 2 or 3 | 1494GY | | | | | | | | | | |
| | B | | | | | | | | | | | | |
| 60 | A | | | | | | | | | | | | |
| | B | | | | | | | | | | | | |
| 30 | A | 2 or 3 | 1494GX | 30 (762) | 20-1/2 (521) | 10-3/16 (259) | 31-3/8 (797) | 15-1/4 (387) | 15-1/4 (387) | 5-9/16 (141) | 32-3/8 (822) | 13/16 (21) | 90 (40.82) |
| | B | | | | | | | | | | | | |
| 60 | A | | | | | | | | | | | | |
| | B | | | | | | | | | | | | |
| 100 | D | 6 | 1494G | | | | | | | | | | |
| 100 | A | 2 or 3 | 1494GY | | | | | | | | | | |
| | B | | | | | | | | | | | | |
| 100 | B | 2 or 3 | 1494G | 31-1/2 (800) | 10-1/2 (267) | 10-3/32 (257) | 32-7/8 (835) | (2) | 5-1/4 (133) | 5-9/16 (141) | 33-27/32 (860) | 11/32 (9) | 70 (31.73) |
| | C | 6 | | | | | | | | | | | |
| 200 | A | 2 or 3 | | | | | | | | | | | |
| | B | | | | | | | | | | | | |
| 100 | A | 2 or 3 | 1494GX | 50 (1270) | 22 (559) | 11-1/2 (292) | 51-3/8 (1305) | 15-1/4 (387) | 15-1/4 (387) | 5-9/16 (141) | 52-11/32 (1330) | 11/32 (9) | 200 (90.7) |
| | B | | | | | | | | | | | | |
| 200 | C | 6 | 1494G | | | | | | | | | | |
| | D | | | | | | | | | | | | |
| 200 | A | 2 or 3 | 1494GY | | | | | | | | | | |
| | B | | | | | | | | | | | | |
| 400 | A | 2 or 3 | 1494G | 50 (1270) | 22 (559) | 11-1/2 (292) | 51-3/8 (1305) | 15-1/4 (387) | 15-1/4 (387) | 7-5/8 (194) | 52-11/32 (1330) | 11/32 (9) | 200 (90.7) |
| 600 | A | | | | | | | | | | | | |
| 400 | B | 2 or 3 | 1494G | 56 (1422) | 30-1/2 (775) | 13-51/64 (350) | 57-5/8 (1464) | 20 (508) | 25-1/4 (641) | 7-5/8 (194) | 62-5/8 (1590) | 1 (25.4) | 300 (136.05) |
| 600 | 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 on the center line. All other enclosures have two top mounting holes located as shown.

## Bulletin 1494G, 1494GX, 1494GY Enclosed Disconnect Safety Switches
## Type 4/4X (Enclosure Code "C") Stainless Steel Enclosures

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



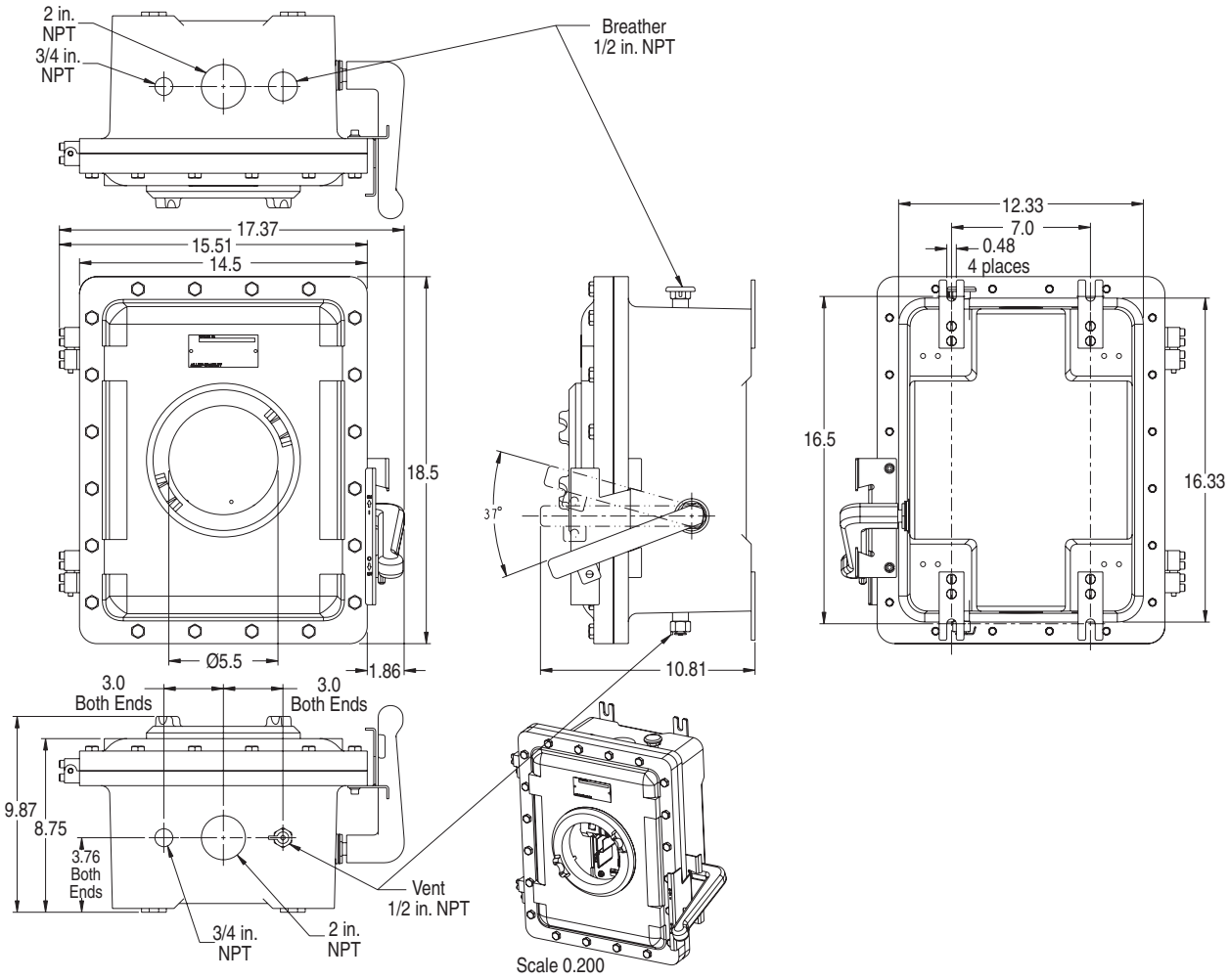

| Size [A] | Fuse Style(1) | Number of Poles | Bulletin Number | Approximate Dimensions in Inches (Millimeters) | | | | | | | | | Approx. Shipping Weight [lb (kg)] |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | | A Height | B Width | C Depth | D Mounting | E Mounting | F Mounting | G Handle Depth | H | J | |
| 30 | A | 2 or 3 | 1494G | 13-5/16 (338) | 10-1/2 (267) | 8-1/4 (210) | 14-11/16 (373) | (2) | 7 (178) | 5-9/16 (141) | 15-21/32 (398) | 13/16 (21) | 20 60 (9.07) |
| 60 | | | | | | | | | | | | | |
| 30 | B | 2 or 3 | 1494G | 27-1/2 (698) | 10-1/2 (267) | 8-1/4 (210) | 28-7/8 (733) | (2) | 7 (178) | 5-9/16 (141) | 29-3/4 (756) | 13/16 (21) | 60 (27.21) |
| | C | 6 | | | | | | | | | | | |
| | D | | | | | | | | | | | | |
| 60 | B | 2 or 3 | | | | | | | | | | | |
| | C | 6 | | | | | | | | | | | |
| | D | | | | | | | | | | | | |
| 30 | A | 2 or 3 | 1494GY | | | | | | | | | | |
| | B | | | | | | | | | | | | |
| 60 | A | | | | | | | | | | | | |
| | B | | | | | | | | | | | | |
| 30 | A | 2 or 3 | 1494GX | 30 (762) | 20-1/2 (521) | 9-7/8 (254) | 31-3/8 (797) | 17 (432) | 17 (432) | 5-9/16 (141) | 32-1/4 (819) | 13/16 (21) | 90 (40.82) |
| | B | | | | | | | | | | | | |
| 60 | A | | | | | | | | | | | | |
| | B | | | | | | | | | | | | |
| 100 | A | 2 or 3 | 1494G | | | | | | | | | | |
| | B | | | | | | | | | | | | |
| | C | 6 | | | | | | | | | | | |
| | D | | | | | | | | | | | | |
| 100 | A | 2 or 3 | 1494GX | 50 (1270) | 22 (559) | 11-3/16 (284) | 51-3/8 (1305) | 18-1/2 (470) | 18-1/2 (470) | 5-9/16 (141) | 52-1/4 (1327) | 13/16 (21) | 200 (90.7) |
| | B | | | | | | | | | | | | |
| 200 | A | 2 or 3 | 1494G | | | | | | | | | | |
| | B | | | | | | | | | | | | |
| | C | 6 | | | | | | | | | | | |
| | D | | | | | | | | | | | | |
| 400 | A | 2 or 3 | 1494G | 56 (1422) | 30-1/2 (775) | 13-51/64 (350) | 57-5/8 (1464) | 20 (508) | 25-1/4 (641) | 7-5/8 (194) | 58-5/8 (1489) | 1 (25.4) | 300 (136.05) |
| | 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 on the center line. All other enclosures have two top mounting holes located as shown.

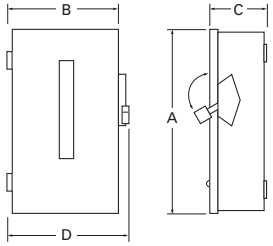
### Bulletin 1494G Safety Switch — Hazardous Locations

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



## Bulletin 1494H Heavy-Duty Safety Switches
## Type 1 (Enclosure Code "A") General-Purpose Painted Metal Enclosures

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




| Switch Size [A] | Fuse Style | A Height | B Width | C Depth | D Width (with handle) | Knockout Figure # |
|---|---|---|---|---|---|---|
| 30 | 240V | 10-9/32 (261.1) | 6-3/8 (162.1) | 3-5/16 (84.1) | 7-1/8 (181) | 1 |
| | 600V | 12-19/32 (319.8) | 8-3/8 (212.9) | 4 (101.6) | 9-1/2 (241.3) | 2 |
| | Non-fusible | 10-3/8 (263.7) | 8-3/8 (212.9) | 4 (101.6) | 9-1/4 (235) | 3 |
| 60 | 240V | 17-19/32 (446.8) | 9-3/8 (238.3) | 5 (127) | 10-3/64 (255.3) | 4 |
| | 600V | 21-11/32 (542) | | | | 5 |
| | Non-fusible | 17-19/32 (446.8) | | | | 4 |
| 100 | 240V | 21-11/32 (542) | 9-3/8 (238.3) | 5 (127) | 10-3/64 (255.3) | 5 |
| | 600V | 22-11/32 (567.4) | | | | 4 |
| | Non-fusible | 17-19/32 (446.8) | | | | 4 |
| 200 | 240V | 31-5/8 (803.3) | 13-7/16 (341.4) | 5-1/4 (133.4) | 14-7/16 (366) | 6 |
| | 600V | | | | | |
| | Non-fusible | | | | | |

*Knockouts — Conduit Size*

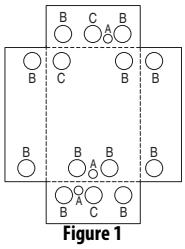



**Figure 1**

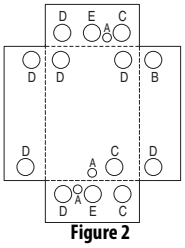



**Figure 2**

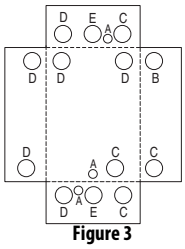



**Figure 3**

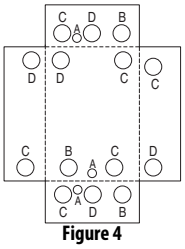



**Figure 4**

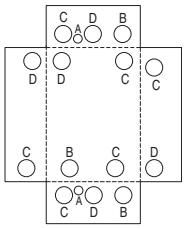



**Figure 5**

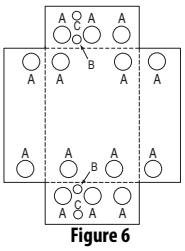
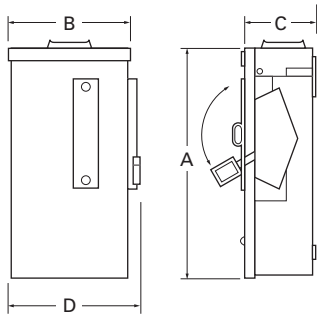



**Figure 6**

| Switch Size [A] | Fuse Style | Knockouts | | | | |
|---|---|---|---|---|---|---|
| | | A | B | C | D | E |
| 30 | 240V | 9/32 (7.1) | 1/2 x 3/4 (12.7 x 19.1) | 3/8 x 1/2 x 3/4 x 1 (9.5 x 12.7 x 19.1 x 25.4) | — | — |
| | 600V | | | 1/2 x 3/4 x 1 (12.7 x 19.1 x 25.4) | 1/2 x 3/4 x 1 x 1-1/4 (12.7 x 19.1 x 25.4 x 31.8) | 3/4 x 1 x 1-1/4 x 1-1/2 (19.1 x 25.4 x 31.8 x 38.1) |
| | Non-fusible | | | | | |
| 60 | 240V | 9/32 (7.1) | 1/2 x 3/4 x 1 x 1-1/4 (12.7 x 19.1 x 25.4 x 31.8) | 3/4 x 1 x 1-1/4 x 1-1/2 (19.1 x 25.4 x 31.8 x 38.1) | 1 x 1-1/4 x 1-1/2 x 2 (25.4 x 31.8 x 38.1 x 50.8) | — |
| | 600V | | | | | |
| | Non-fusible | | | | | |
| 100 | 240V | 9/32 (7.1) | 1/2 x 3/4 x 1 x 1-1/4 (12.7 x 19.1 x 25.4 x 31.8) | 3/4 x 1 x 1-1/4 x 1-1/2 (19.1 x 25.4 x 31.8 x 38.1) | 1 x 1-1/4 x 1-1/2 x 2 (25.4 x 31.8 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 (7.1) | 1/2 (12.7) | — | — |
| | 600V | | | | | |
| | Non-fusible | | | | | |

## Bulletin 1494H Heavy-Duty Safety Switches
## Type 3R (Enclosure Code "N") Rain-Proof Painted Metal Enclosures

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




| Switch Size [A] | Fuse Style | A Height | B Width | C Depth | D Width (with handle) | Knockout Figure # |
|---|---|---|---|---|---|---|
| 30 | 240V | 10-5/8 (269.9) | 6-3/8 (162.1) | 3-5/16 (84.1) | 7-1/8 (181) | 7 |
| | 600V | 13-13/64 (335.3) | 8-3/8 (212.9) | 4 (101.6) | 9-13/32 (239) | 8 |
| | Non-fusible | | | | | |
| 60 | 240V | 17-7/16 (443) | 9-3/8 (238.3) | 5 (127) | 10-3/64 (255.3) | 9 |
| | 600V | 22-3/16 (563.6) | | | 10-1/2 (267) | |
| | Non-fusible | 17-7/16 (443) | | | 10-3/64 (255.3) | |
| 100 | 240V | 22-3/16 (563.6) | 9-3/8 (238.3) | 5 (127) | 10-1/2 (267) | 9 |
| | 600V | 22-3/16 (563.6) | | | 10-1/2 (267) | |
| | Non-fusible | 17-7/16 (443) | | | 10-3/64 (255.3) | |
| 200 | 240V | 31-7/16 (798.6) | 13-3/8 (339.9) | 5-15/32 (138.9) | 14-1/8 (361.9) | 10 |
| | 600V | | | | | |
| | Non-fusible | | | | | |

*Knockouts — Conduit Size*

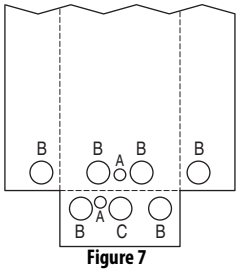



**Figure 7**

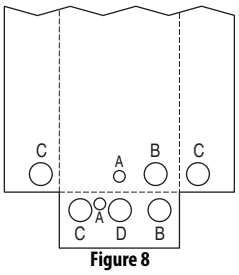



**Figure 8**

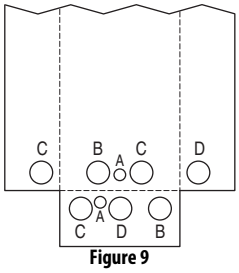



**Figure 9**

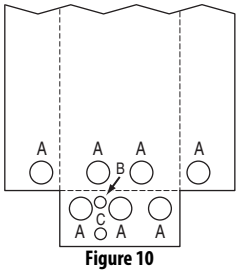
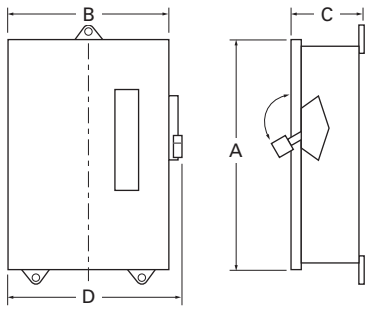



**Figure 10**

| Switch Size [A] | Fuse Style | Knockouts | | | |
|---|---|---|---|---|---|
| | | A | B | C | D |
| 30 | 240V | 9/32 (7.1) | 1/2 x 3/4 (12.7 x 19.1) | 3/8 x 1/2 x 3/4 x 1 (9.5 x 12.7 x 19.1 x 25.4) | — |
| | 600V | | 1/2 x 3/4 x 1 (12.7 x 19.1 x 25.4) | 1/2 x 3/4 x 1 x 1-1/4 (12.7 x 19.1 x 25.4 x 31.8) | 3/4 x 1 x 1-1/4 x 1-1/2 (19.1 x 25.4 x 31.8 x 38.1) |
| | Non-fusible | | | | |
| 60 | 240V | 9/32 (7.1) | 1/2 x 3/4 x 1 x 1-1/4 (12.7 x 19.1 x 25.4 x 31.8) | 3/4 x 1 x 1-1/4 x 1-1/2 (19.1 x 25.4 x 31.8 x 38.1) | 1 x 1-1/4 x 1-1/2 x 2 (25.4 x 31.8 x 38.1 x 50.8) |
| | 600V | | | | |
| | Non-fusible | | | | |
| 100 | 240V | 9/32 (7.1) | 1/2 x 3/4 x 1 x 1-1/4 (12.7 x 19.1 x 25.4 x 31.8) | 3/4 x 1 x 1-1/4 x 1-1/2 (19.1 x 25.4 x 31.8 x 38.1) | 1 x 1-1/4 x 1-1/2 x 2 (25.4 x 31.8 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 (7.1) | 1/2 (12.7) | — |
| | 600V | | | | |
| | Non-fusible | | | | |

## Bulletin 1494H Heavy-Duty Safety Switches
## Type 12 (Enclosure Code "F") Dust-Tight Painted Metal Enclosures

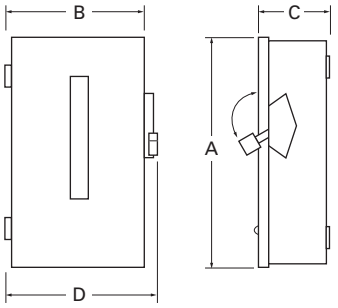
Approximate dimensions are shown in inches. Dimensions are not intended to be used for manufacturing purposes.




| Switch Size [A] | Fuse Style | A<br>Height | B<br>Width | C<br>Depth | D<br>Width (with handle) |
|---|---|---|---|---|---|
| 30 | 240V | 11-3/8 (288.9) | 7-3/8 (187.3) | 5-1/16 (128.6) | 8-1/8 (206.4) |
| | 600V | 13-3/8 (339.7) | 9-3/8 (238.3) | 5-1/16 (128.6) | 10-1/4 (260.4) |
| | Non-fusible | | | | |
| 60 | 240V | 19-3/8 (492.1) | 9-3/8 (238.3) | 5-1/16 (128.6) | 10-1/4 (260.4) |
| | 600V | | | | |
| | Non-fusible | | | | |
| 100 | 240V | 25-3/8 (644.5) | 13-1/2 (342.9) | 5-1/16 (128.6) | 14-1/4 (362) |
| | 600V | | | | |
| | Non-fusible | | | | |
| 200 | 240V | 35-1/8 (892.2) | 13-1/2 (342.9) | 5-1/16 (128.6) | 15-1/4 (387.4) |
| | 600V | | 14-1/2 (368.3) | | |
| | Non-fusible | | 14-1/2 (368.3) | | |

## Bulletin 1494HL General Duty Safety Switches
## Type 1 (Enclosure Code "A") General-Purpose Painted Metal Enclosures

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




| Switch Size [A] | Fuse Style | A<br>Height | B<br>Width | C<br>Depth | D<br>Width (with handle) | Knockout Figure # |
|---|---|---|---|---|---|---|
| 30 | 240V | 10-9/32 (261.1) | 6-1/2 (165.1) | 3-5/16 (84.1) | 6-29/32 (175.3) | 1 |
| 60 | | 13-27/32 (351.5) | 8-1/2 (215.9) | 4 (101.6) | 8-7/8 (225.6) | 2 |
| 100 | | 21-11/32 (542) | 9-1/2 (241.3) | 5 (127) | 9-7/8 (251) | 3 |
| 200 | | 29-1/8 (739.6) | 13-7/16 (341.4) | 5-5/16 (134.9) | 13-15/16 (354.1) | 4 |

*Knockouts — Conduit Size*

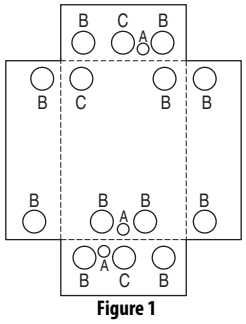


**Figure 1**

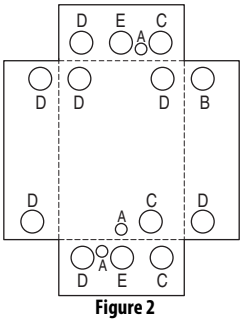


**Figure 2**

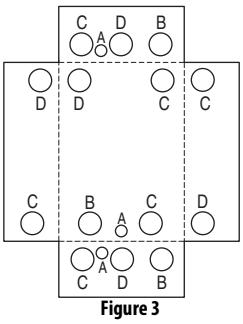


**Figure 3**

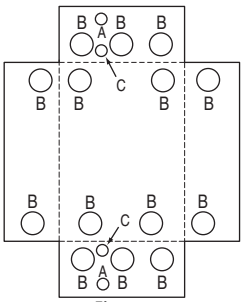
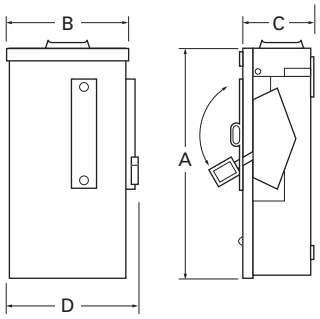


**Figure 4**

| Switch Size [A] | Knockouts | | | | |
|---|---|---|---|---|---|
| | A | B | C | D | E |
| 30 | 9/32 (7.1) | 1/2 x 3/4<br>(12.7 x 19.1) | 3/8 x 1/2 x 3/4 x 1<br>(9.5 x 12.7 x 19.1 x 25.4) | — | — |
| 60 | 9/32 (7.1) | 1/2 x 3/4<br>(12.7 x 19.1) | 1/2 x 3/4 x 1<br>(12.7 x 19.1 x 25.4) | 1/2 x 3/4 x 1 x 1-1/4<br>(12.7 x 19.1 x 25.4 x 31.8) | 3/4 x 1 x 1-1/4 x 1-1/2<br>(19.1 x 25.4 x 31.8 x 38.1) |
| 100 | 9/32 (7.1) | 1/2 x 3/4 x 1 x 1-1/4<br>(12.7 x 19.1 x 25.4 x 31.8) | 3/4 x 1 x 1-1/4 x 1-1/2<br>(19.1 x 25.4 x 31.8 x 38.1) | 1 x 1-1/4 x 1-1/2 x 2<br>(25.4 x 31.8 x 38.1 x 50.8) | — |
| 200 | 1/2 (12.7) | 1 x 1-1/2 x 2 x 2-1/2<br>(25.4 x 38.1 x 50.8 x 63.5) | 9/32 (7.1) | — | — |

## Bulletin 1494HL General Duty Safety Switches
## Type 3R (Enclosure Code "N") Rain-Proof Painted Metal Enclosures

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




| Switch Size [A] | Fuse Style | A Height | B Width | C Depth | D Width (with handle) | Knockout Figure # |
|---|---|---|---|---|---|---|
| 30 | 240V | 10-1/32 (254.8) | 6-3/8 (162.1) | 3-5/16 (84.1) | 7-1/8 (180.8) | 5 |
| 60 | | 13-15/16 (353.8) | 8-3/8 (212.9) | 3-7/8 (225.6) | 9-3/32 (230.9) | 6 |
| 100 | | 21-7/16 (544.3) | 9-3/8 (238.3) | 5 (127) | 9-61/64 (252.7) | 7 |
| 200 | | 28-15/16 (735.1) | 13-3/8 (339.9) | 5-5/16 (134.9) | 14-1/16 (357.1) | 8 |

*Knockouts — Conduit Size*

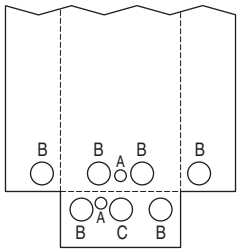



**Figure 5**

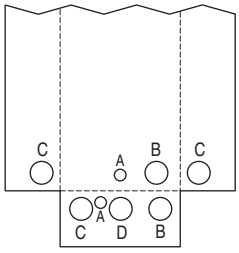



**Figure 6**

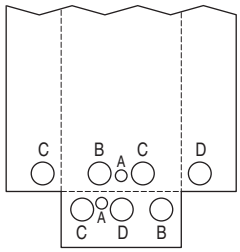



**Figure 7**

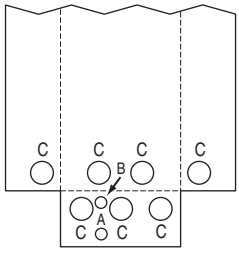



**Figure 8**

| Switch Size [A] | Knockouts | | | |
|---|---|---|---|---|
| | A | B | C | D |
| 30 | 9/32 (7.1) | 1/2 x 3/4<br>(12.7 x 19.1) | 3/8 x 1/2 x 3/4 x 1<br>(9.5 x 12.7 x 19.1 x 25.4) | — |
| 60 | 9/32 (7.1) | 1/2 x 3/4 x 1<br>(12.7 x 19.1 x 25.4) | 1/2 x 3/4 x 1 x 1-1/4<br>(12.7 x 19.1 x 25.4 x 31.8) | 3/4 x 1 x 1-1/4 x 1-1/2<br>(19.1 x 25.4 x 31.8 x 38.1) |
| 100 | 9/32 (7.1) | 1/2 x 3/4 x 1 x 1-1/4<br>(12.7 x 19.1 x 25.4 x 31.8) | 3/4 x 1 x 1-1/4 x 1-1/2<br>(19.1 x 25.4 x 31.8 x 38.1) | 1 x 1-1/4 x 1-1/2 x 2<br>(25.4 x 31.8 x 38.1 x 50.8) |
| 200 | 1/2 (12.7) | 1 x 1-1/2 x 2 x 2-1/2<br>(25.4 x 38.1 x 50.8 x 63.5) | 1 x 1-1/2 x 2 x 2-1/2<br>(25.4 x 38.1 x 50.8 x 63.5) | — |

## Notes:

## Rockwell Automation Support

Use the following resources to access support information.

| | | |
|---|---|---|
| **Technical Support Center** | Knowledgebase Articles, How-to Videos, FAQs, Chat, User Forums, and Product Notification Updates. | www.rockwellautomation.com/knowledgebase |
| **Local Technical Support Phone Numbers** | Locate the phone number for your country. | www.rockwellautomation.com/global/support/get-support-now.page |
| **Direct Dial Codes** | Find the Direct Dial Code for your product. Use the code to route your call directly to a technical support engineer. | www.rockwellautomation.com/global/support/direct-dial.page |
| **Literature Library** | Installation Instructions, Manuals, Brochures, and Technical Data. | www.rockwellautomation.com/literature |
| **Product Compatibility and Download Center (PCDC)** | Get help determining how products interact, check features and capabilities, and find associated firmware. | www.rockwellautomation.com/global/support/pcdc.page |

## Documentation Feedback

Your comments will help us serve your documentation needs better. If you have any suggestions on how to improve this document, complete the How Are We Doing? form at http://literature.rockwellautomation.com/idc/groups/literature/documents/du/ra-du002_-en-e.pdf.

Rockwell Automation maintains current product environmental information on its website at http://www.rockwellautomation.com/rockwellautomation/about-us/sustainability-ethics/product-environmental-compliance.page.

Allen-Bradley, Rockwell Software, Rockwell Automation, and LISTEN. THINK. SOLVE are trademarks of Rockwell Automation, Inc.
Trademarks not belonging to Rockwell Automation are property of their respective companies.

Rockwell Otomasyon Ticaret A.Ş., Kar Plaza İş Merkezi E Blok Kat:6 34752 İçerenköy, İstanbul, Tel: +90 (216) 5698400

**www.rockwellautomation.com**

**Power, Control and Information Solutions Headquarters**

Americas: Rockwell Automation, 1201 South Second Street, Milwaukee, WI 53204-2496 USA, Tel: (1) 414.382.2000, Fax: (1) 414.382.4444
Europe/Middle East/Africa: Rockwell Automation NV, Pegasus Park, De Kleetlaan 12a, 1831 Diegem, Belgium, Tel: (32) 2 663 0600, Fax: (32) 2 663 0640
Asia Pacific: Rockwell Automation, Level 14, Core F, Cyberport 3, 100 Cyberport Road, Hong Kong, Tel: (852) 2887 4788, Fax: (852) 2508 1846

Publication 1494-TD001E-EN-P - February 2016
Supersedes Publication 1494-TD001D-EN-P - April 2015

Copyright © 2016 Rockwell Automation, Inc. All rights reserved. Printed in the U.S.A.