



Disconnect Switch and Circuit Breaker Mechanism Specifications

Bulletin Number 1494

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LISTEN.
THINK.
SOLVE.



Summary of Changes

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

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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	7.5	15	30
		460V/60 Hz	15	30	60
		575V/60 Hz	20	50	75
	600V DC	15	30	50	
	Continuous Current, Ithe	600V AC 600V DC	30	60	100
Ratings IEC Applications	Maximum kW (AC23)	220V/50 Hz	5.5	11	22
		440V/50 Hz	11	22	45
		550V/50 Hz	15	37	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 Painted Type 1, 3R, 4, 12 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 10 000 A, 600V DC: with Class J or Class R fuses 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 (2) #14...10 AWG, copper (2) #12...10 AWG, aluminum		
	Single port, aluminum lug	100 A	(2) #12...4 AWG, copper-aluminum (1) #14...1/0 AWG, copper (1) #12...1/0 AWG, aluminum		
	Multi-port, aluminum lug	30...100 A	(1) #14...4 AWG, copper (1) #12...4 AWG, aluminum (2) #10 AWG, copper-aluminum		
	Single port, copper lug	30...60 A	(1) #14...4 AWG, copper (2) #14...8 AWG, copper (4) #16 AWG, copper		
	Line Terminal Adapter Single port, copper lug	30...100 A	(1) #14...8 AWG, copper		
	Line Terminal Adapter Single port, copper lug	100 A	(1) #8...1/0 AWG, copper		
Recommended Torque	30 A 60 A 100 A	Conductor into Lug 45 lb-in 45 lb-in 50 lb-in			Lug to Terminal 40...60 lb-in 40...60 lb-in 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	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
Ratings IEC Applications	Continuous Current, Ithe	600V AC 250V DC	30	60	100	200	400	600
	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
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. 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 Painted Type 1, 3R, 4, 12 Stainless steel Type 4, 4X						
Mechanical Life (Typical)		10 000 operations (30...100 A) 8000 operations (200 A) 6000 operations (400 A) 5000 operations (600 A)						
Switching Frequency (operations/hr)		30, 60, 100, and 200 A sizes — 300 maximum 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 10 000 A, 600V AC: with Class H fuses 200 000 A, 600V AC: with Class J or Class R fuses						
Construction								
Switch Body Material		Glass-filled thermoset plastic						
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						
	400 A	3/8 in. - 24 screw-lug, copper						
	600 A	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	#14...8 AWG (1.5...10 mm ²)						
	60 A	#14...4 AWG (2.5...16 mm ²)						
	100 A	#8...1/0 AWG (10...50 mm ²)						
	200 A	#6...4/0 AWG (16...95 mm ²)						
	400 A	2 of #1/0 AWG...250 MCM (2 per lug) 2 of 185 mm ² ...250 MCM or (1) #4 AWG...500 MCM						
	600 A	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	30 A	Conductor into Lug				Lug to Terminal		
	60 A	20 lb•in				20 lb•in		
	100 A	45 lb•in				50 lb•in		
	200 A	150 lb•in				90 lb•in		
	400 A	275 lb•in				175 lb•in		
	600 A	275 lb•in				175 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	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, Ithe	600V AC 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 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)			
Construction						
Switch Body Material			Phenolic			
Contact Material			Copper, tin-plated			
Terminals	30 A 60 A 100 A 200 A	#10 - 32 screw and self-lifting pressure plate 1/4 in. - 28 screw-lug, copper 5/16 in. - 24 screw-lug, copper 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 60 A 100 A 200 A	#14...8 AWG #12...2 AWG #10...1/0 AWG #2...250 MCM AWG				
Recommended Torque	30 A 60 A 100 A 200 A	Conductor into Lug 36...40 lb•in 35...45 lb•in 35...50 lb•in 275 lb•in				
Mechanisms			Zinc-plated steel, bronze chromate finish			

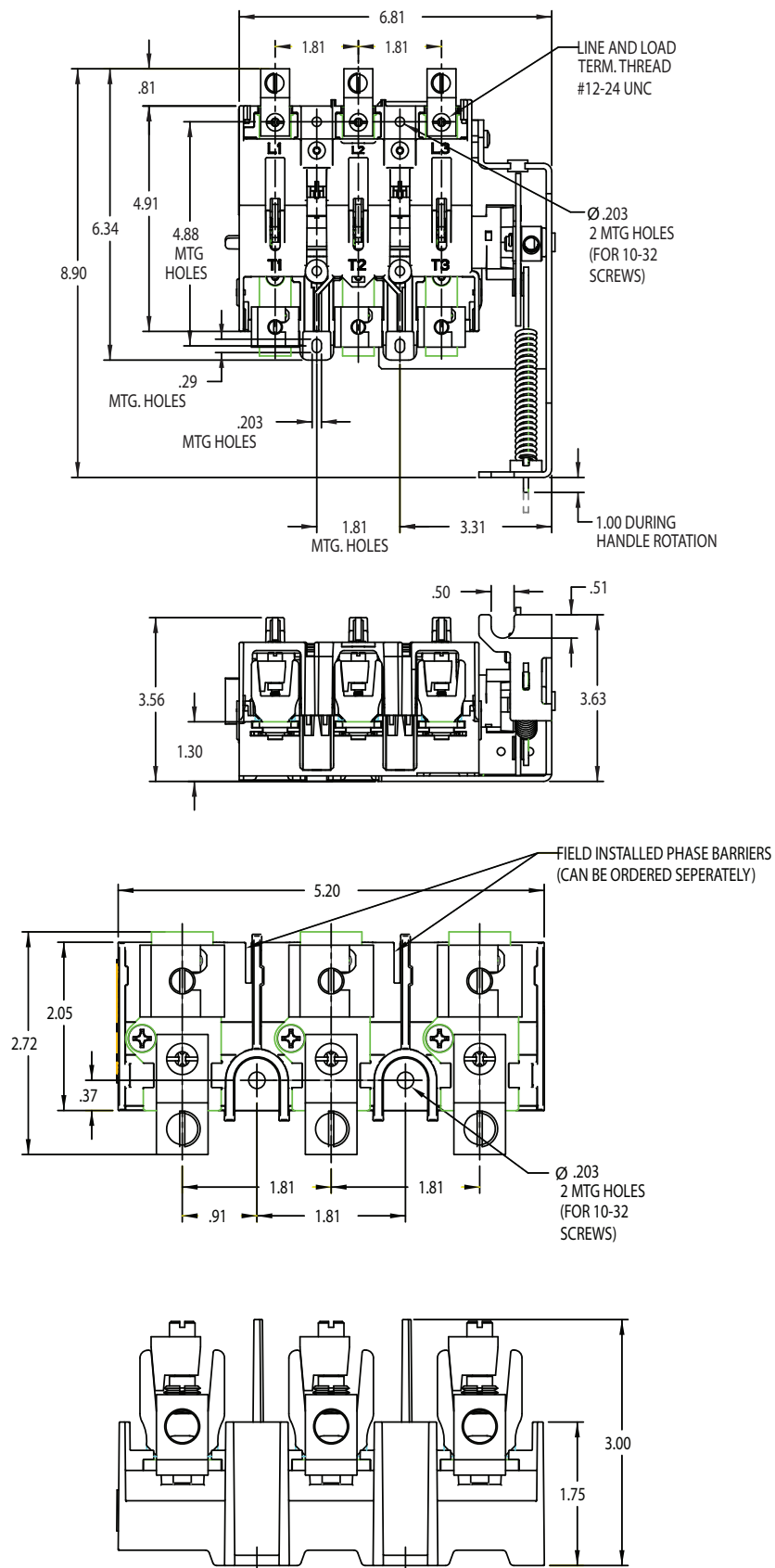
Bulletin 1494D, 1494V Circuit Breakers

Electrical Ratings							
Frame Size	125 A	150 A	250 A	400 A	600 A	800 A	1200 A
Auxiliary Contacts							
Ratings NEMA/EEMAC	B600, P300						
Ratings IEC Applications	ACII U _x	12...120V 220...240V 380...400V 500...600V	I _e				6 A 3 A 1.5 A 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.

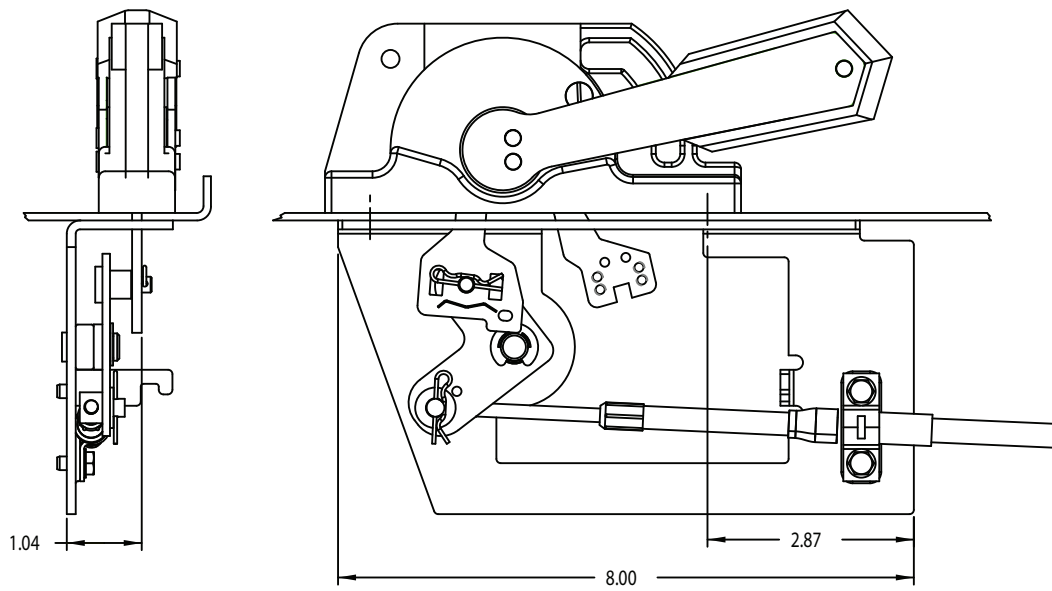
Bulletin 1494U Disconnect Switch and Fuse Block, 100 A

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



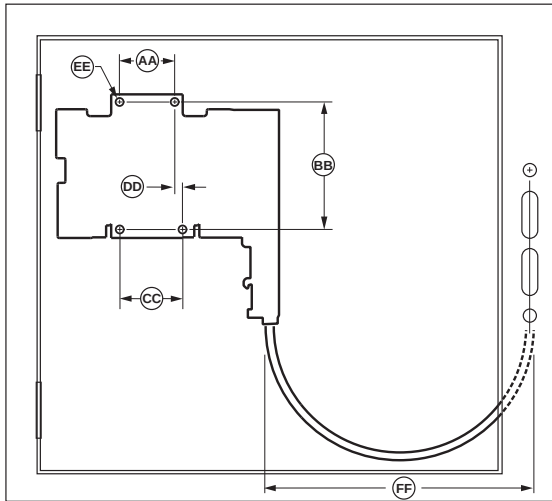
Bulletin 1494U Handle with Support Bracket

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

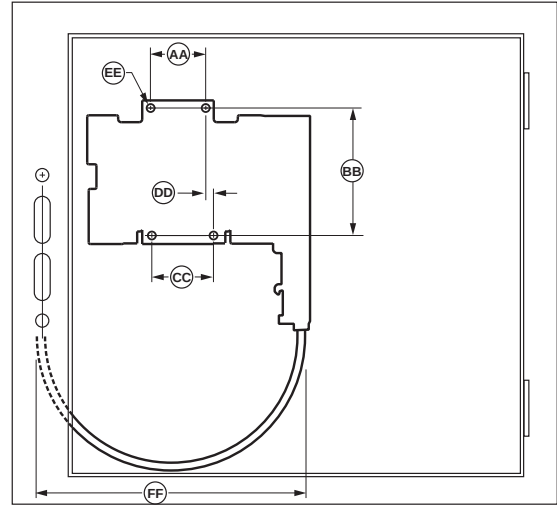


Bulletin 1494C

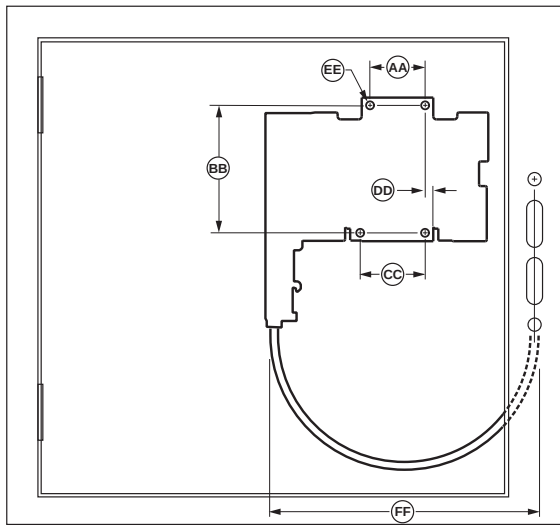
Approximate dimensions are shown in inches. Dimensions are not intended to be used for manufacturing purposes.



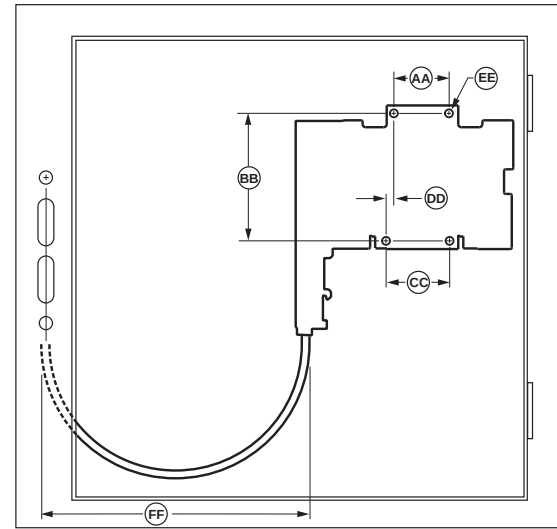
Enclosure with Right Hand Flange



Enclosure with Left Hand Flange



Enclosure with Right Hand Flange



Enclosure with Left Hand Flange

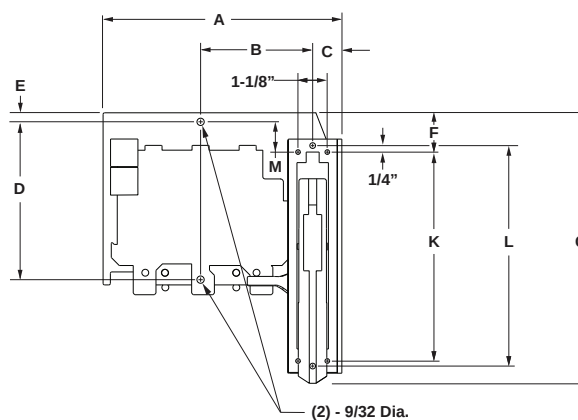
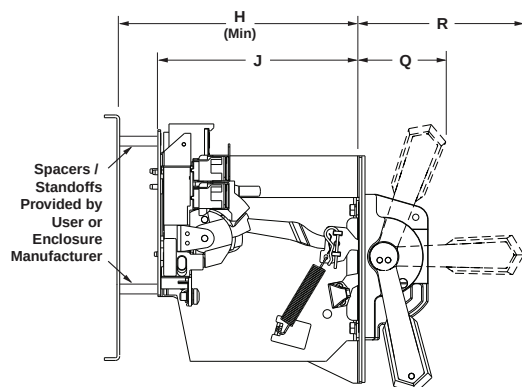
Disconnect Switches

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

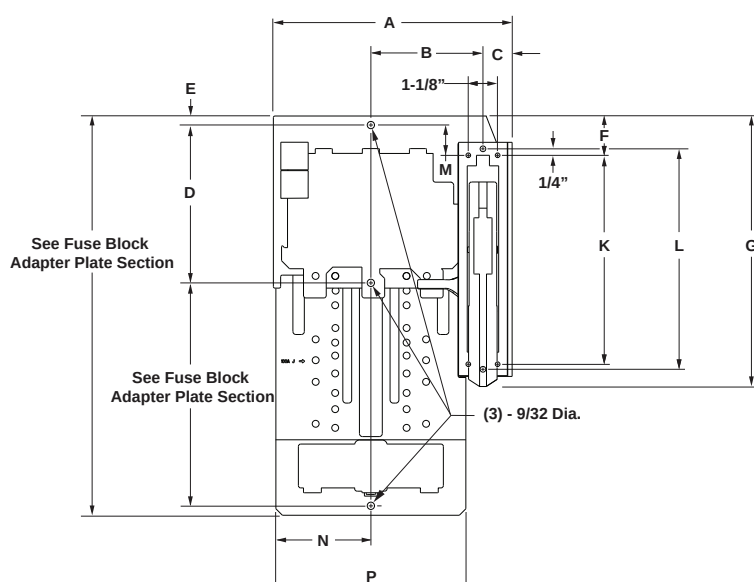
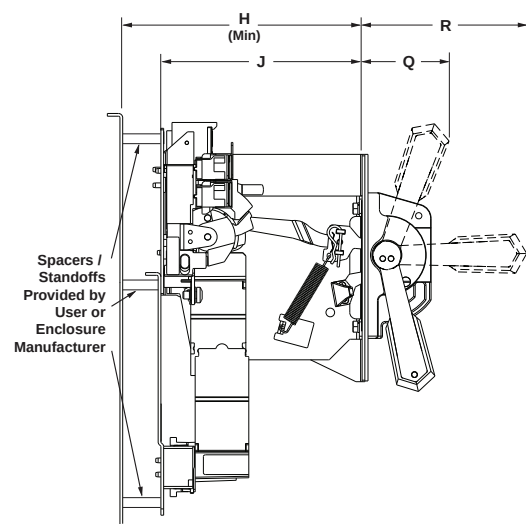
Bulletin 1494F Disconnect Switches

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

Non-Fusible Disconnect Switch



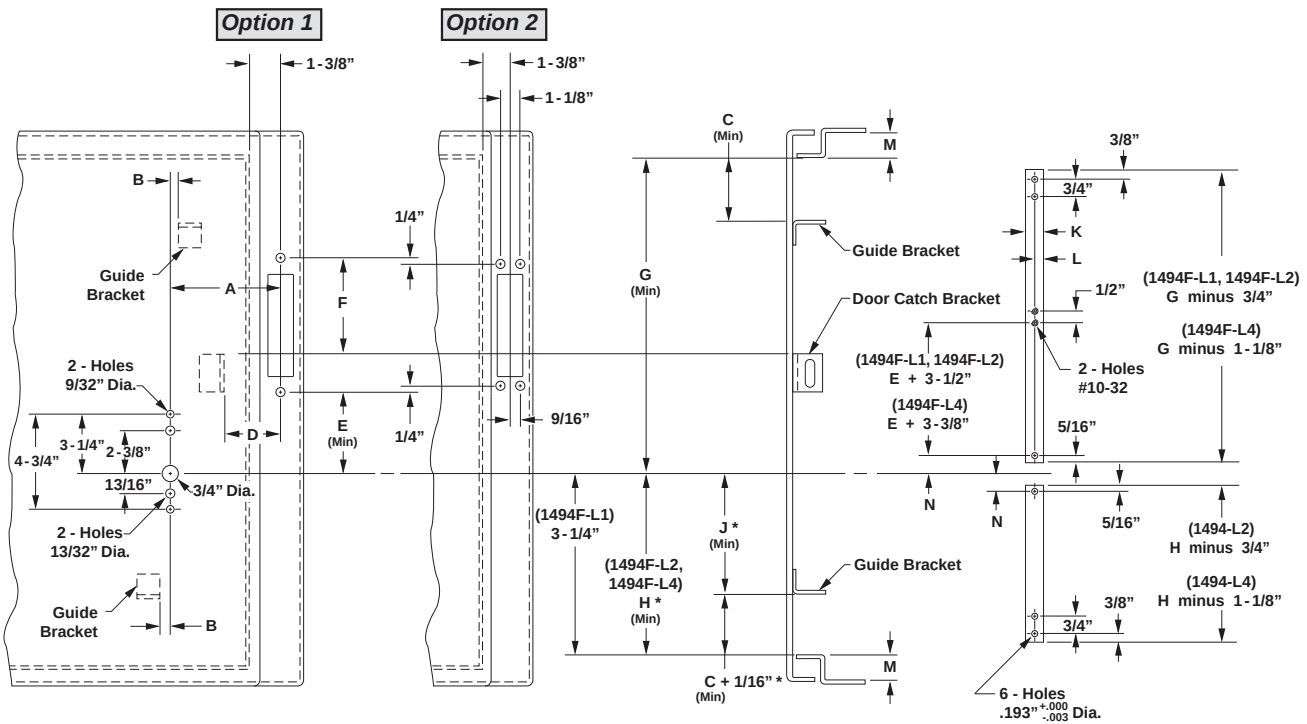
Fusible Disconnect Switch



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.

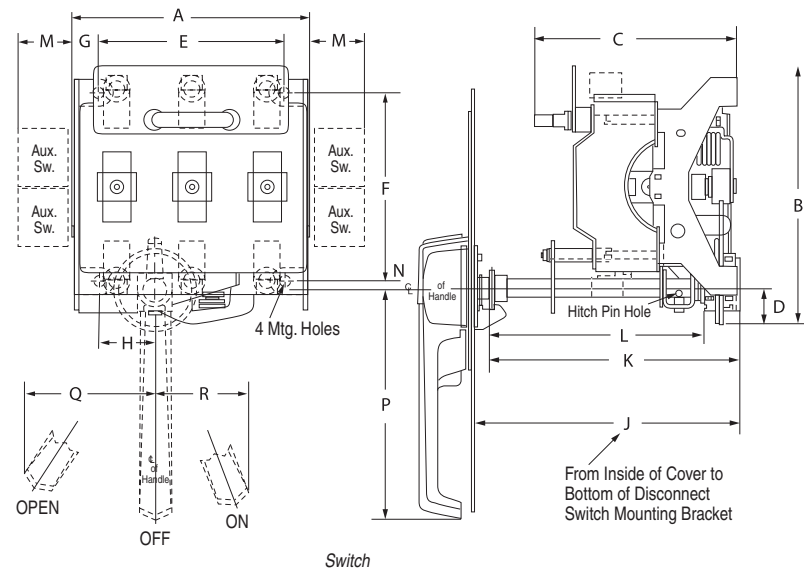


* Non applicable for 1494F-L1

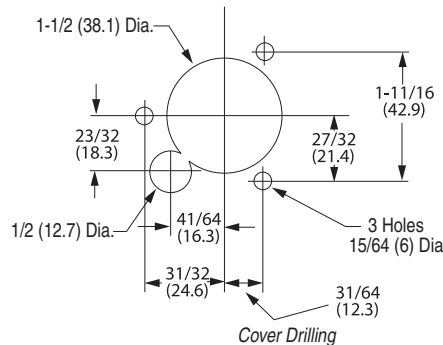
Vault Hardware Kits	Switch Size [A]	A	B	C (Min.)	D	E (Min.)	F	G (Min.)	H (Min.)	J (Min.)	K	L	M	N
Small and Intermediate Enclosures														
1494F-L1 1494F-L2 1494F-L3	30	3-7/8 (98.4)	3/8 (9.5)	3-1/16 (77.8)	2-1/8 (54)	4-1/2 (114.3)	3-13/16 (96.8)	13 (330.2)	8-1/8 (206.4)	5 (127)	1/2 (12.7)	1/4 (6.4)	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.



Bulletin 1494R — 100...200 A



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.

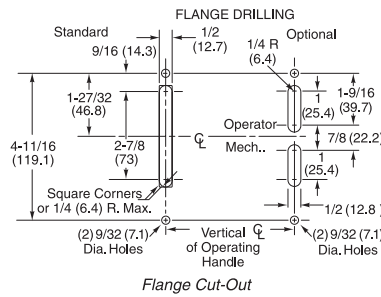
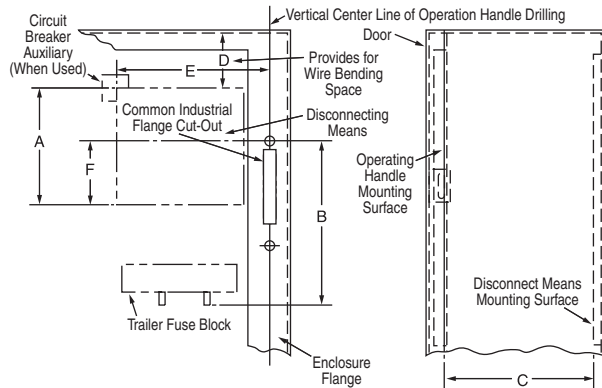
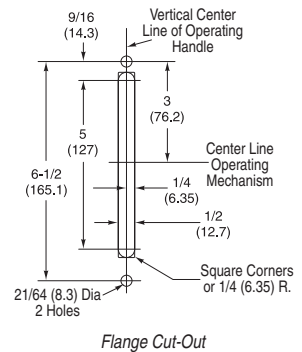
(2) The shaft length is determined by measuring the cabinet depth (dimension J) and subtracting 1-3/8 in.

(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.

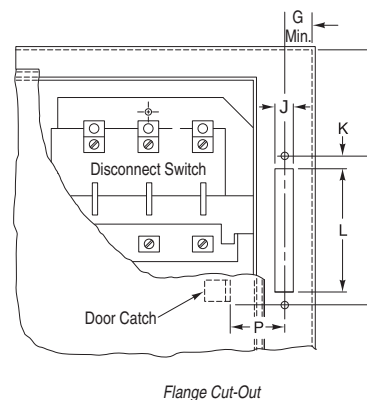
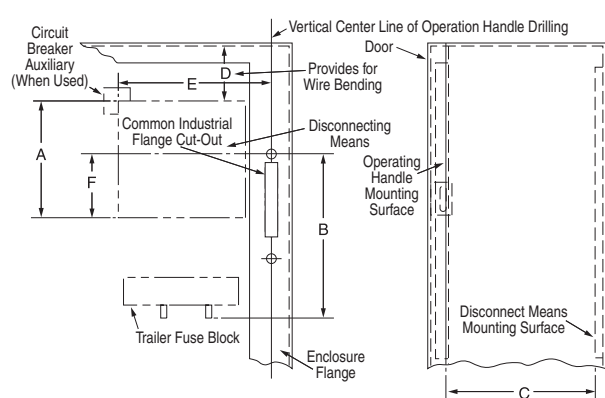
**Bulletin 1494V — 125...400 A****Bulletin 1494R — 800...1200 A**

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

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

Bulletin 1494D Circuit Breakers

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

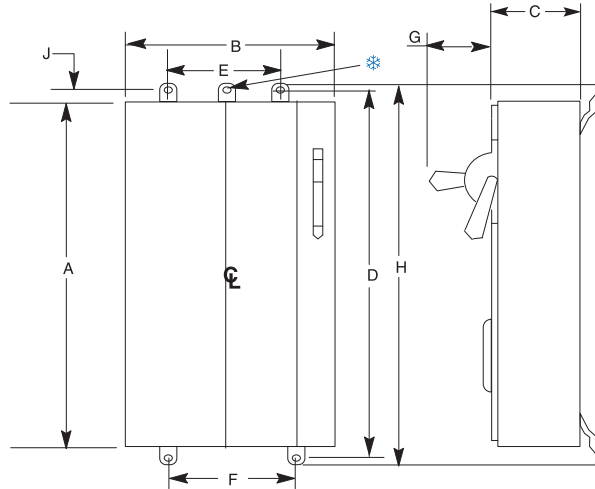


Approximate dimensions are for reference only.

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.



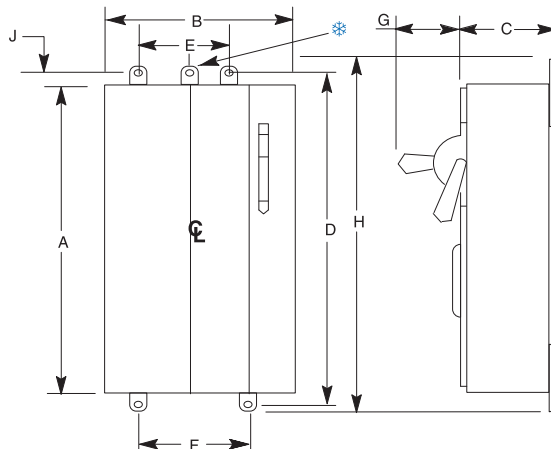
Size [A]	Fuse Style ⁽¹⁾	Number of Poles	Bulletin Number	Approximate Dimensions in Inches (Millimeters)									Approx. Shipping Weight [lb (kg)]											
				A Height	B Width	C Depth	D Mounting	E Mounting	F Mounting	G Handle Depth	H	J												
30	A	2 or 3	1494G	13-5/16 (338)	10-1/2 (267)	8-1/4 (210)	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	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)											
30	C																							
60	D																							
	C																							
30	A	2 or 3	1494GY	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)											
	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)											
60	B																							
	A													6	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)
100	D																							
100	A	2 or 3	1494GY	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																							
100	B	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)	
200	C	6																						1494G
	D		2 or 3	1494GY	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)											
100	A	2 or 3																						1494G
200	B		2 or 3	1494G																				
	400	A												2 or 3	1494G									
600	A	2 or 3	1494G																					
400	B			2 or 3	1494G																			
600	B	2 or 3	1494G																					

- (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 (9.07)
60		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)
30	B	2 or 3											
	C	6											
	D	6											
60	B	2 or 3											
	C	6											
	D	6											
30	A	2 or 3	1494GY	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												
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	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	2 or 3											
	C	6											
	D	6											
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	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	2 or 3											
	C	6											
	D	6											
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	2 or 3											
	C	6											
	D	6											

(1) A = Non-Fusible, Fusible 250V - Class H/R, Fusible 600V - Class J

B = Fusible 600V - Class H/R

C = Non-fusible

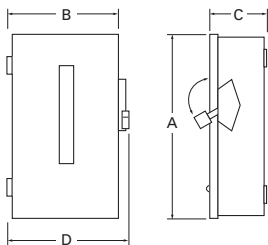
D = Fusible 250V - Class H/R, Fusible 600V - Class J

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

Bulletin 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

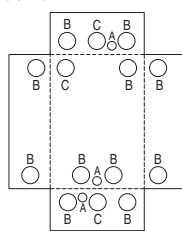


Figure 1

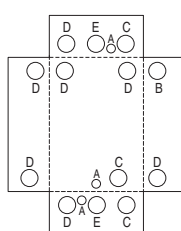


Figure 2

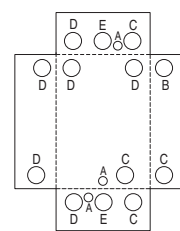


Figure 3

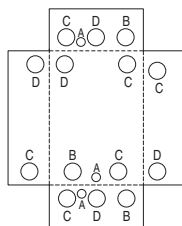


Figure 4

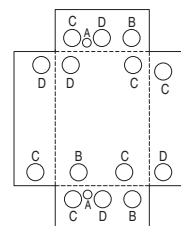


Figure 5

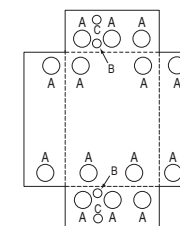


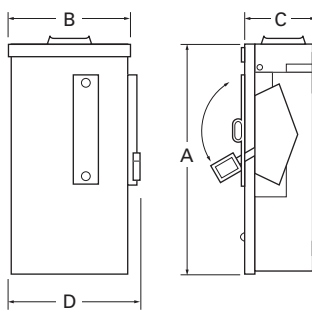
Figure 6

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			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)
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

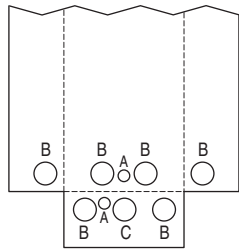


Figure 7

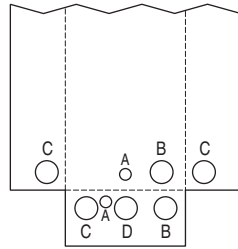


Figure 8

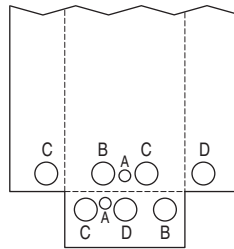


Figure 9

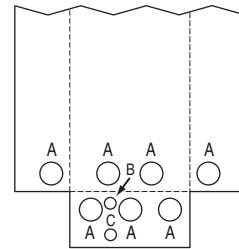
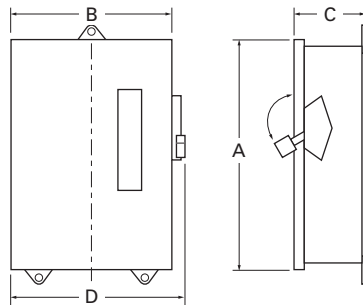


Figure 10

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**

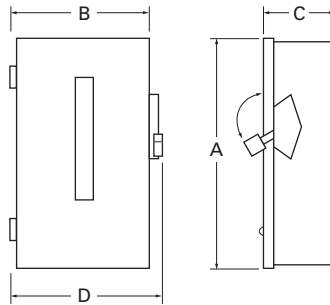
Approximate dimensions are shown in inches. Dimensions are not intended to be used for manufacturing purposes.



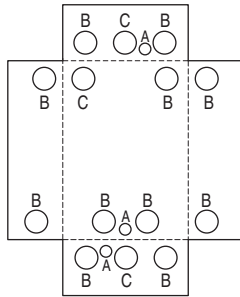
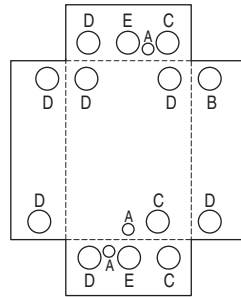
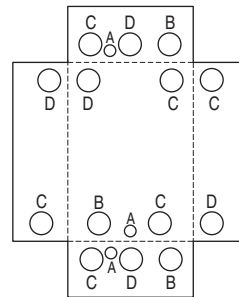
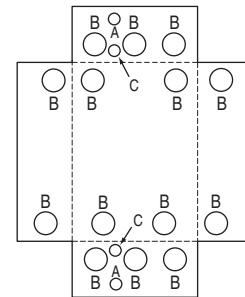
Switch Size [A]	Fuse Style	A Height	B Width	C Depth	D Width (with handle)
30	240V	11-3/8 (288.9)	7-3/8 (187.3)	5-1/16 (128.6)	8-1/8 (206.4)
	600V	13-3/8 (339.7)	9-3/8 (238.3)	5-1/16 (128.6)	10-1/4 (260.4)
	Non-fusible				
60	240V	19-3/8 (492.1)	9-3/8 (238.3)	5-1/16 (128.6)	10-1/4 (260.4)
	600V				
	Non-fusible				
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.



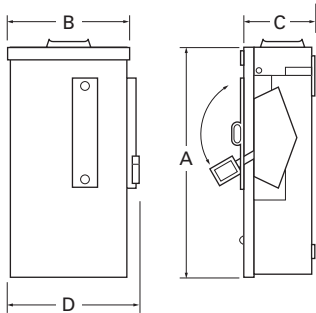
Switch Size [A]	Fuse Style	A Height	B Width	C Depth	D Width (with handle)	Knockout Figure #
30	240V	10-9/32 (261.1)	6-1/2 (165.1)	3-5/16 (84.1)	6-29/32 (175.3)	1
60		13-27/32 (351.5)	8-1/2 (215.9)	4 (101.6)	8-7/8 (225.6)	2
100		21-11/32 (542)	9-1/2 (241.3)	5 (127)	9-7/8 (251)	3
200		29-1/8 (739.6)	13-7/16 (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 (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)	—	—
60	9/32 (7.1)	1/2 x 3/4 (12.7 x 19.1)	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)
100	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)	—
200	1/2 (12.7)	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)	—	—

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

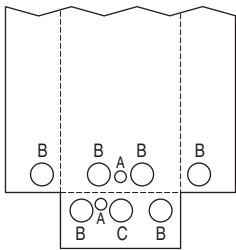


Figure 5

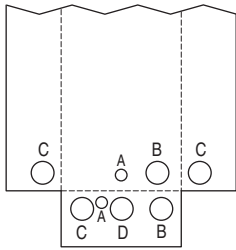


Figure 6

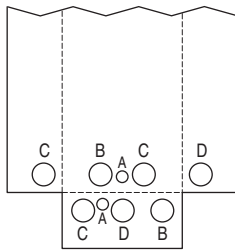


Figure 7

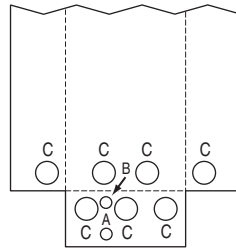


Figure 8

Switch Size [A]	Knockouts			
	A	B	C	D
30	9/32 (7.1)	1/2 x 3/4 (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)	—
60	9/32 (7.1)	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)
100	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)
200	1/2 (12.7)	1 x 1-1/2 x 2 x 2-1/2 (25.4 x 38.1 x 50.8 x 63.5)	1 x 1-1/2 x 2 x 2-1/2 (25.4 x 38.1 x 50.8 x 63.5)	—

Notes:

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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

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