

Industrial Safety Disconnect Switches

Product Overview/Product Selection — Non-Fusible Type

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Cat. No. 1494GX-BF3N
Enclosed Disconnect Switch

Bulletin 1494G/1494GX/1494GY — Non-Fusible

- 30...600 A switch ratings
- 600V: 3-pole, 3-phase and 6-pole, 3-phase versions
- Non-fusible versions only
- Type 3R/4/12 (painted metal), Type 4/4X (stainless steel), and Type 4/4X (non-metallic) enclosures
- 30...100 A switch ratings in extra-capacity enclosures
- 30...100 A switch ratings for 6-pole 3-phase applications
- Disconnect switch linked to the handle at all times
- Visible blade construction for safety
- Non-metallic handle — standard (30...200 A)
- Metal or stainless steel handle — optional
- Lockable handle
- Options — factory installed
- Accessories — field installed

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Standards Compliance

UL 98
UL 508
CSA C22.2, No. 4

Certifications

cULus Listed (File No.
E227497, Guide No. WIAX)

600V, Non-Fusible, (3-pole, 3-phase), standard size enclosure

Continuous Current Rating [A] 600V AC 250V DC	Horsepower					Type 3R/4/12* Painted Metal	Type 4/4X Stainless Steel
	480V AC		600V AC		250V DC	3-Pole, 3-Phase	3-Pole, 3-Phase
	Std.	Max.	Std.	Max.		Cat. No.	Cat. No.
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	200	500	50	1494G-GF3N	1494G-GC3N

600V, Non-Fusible, (3-pole, 3-phase), extra large size enclosure

Continuous Current Rating [A] 600V AC 250V DC	Horsepower					Type 3R/4/12* Painted Metal	Type 4/4X Stainless Steel
	480V AC		600V AC		250V DC	3-Pole, 3-Phase	3-Pole, 3-Phase
	Std.	Max.	Std.	Max.		Cat. No.	Cat. No.
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

600V, Non-Fusible, (3-pole, 3-phase), large size enclosure

Continuous Current Rating [A] 600V AC 250V DC	Horsepower					Type 3R/4/12* Painted Metal	Type 4/4X Stainless Steel
	480V AC		600V AC		250V DC	3-Pole, 3-Phase	3-Pole, 3-Phase
	Std.	Max.	Std.	Max.		Cat. No.	Cat. No.
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	—

600V, Non-Fusible, (6-pole, 3-phase), standard size enclosure

Continuous Current Rating [A] 600V AC 250V DC	Horsepower					Type 3R/4/12* Painted Metal	Type 4/4X Stainless Steel
	480V AC		600V AC		250V DC	6-Pole, 3-Phase	6-Pole, 3-Phase
	Std.	Max.	Std.	Max.		Cat. No.	Cat. No.
30	5	15	7.5	20	5	1494G-BF6N	1494G-BC6N
60	15	30	15	50	10	1494G-CF6N	1494G-CC6N
100	25	60	30	75	20	1494G-DF6N	1494G-DC6N

* 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**.

Bulletin 1494

NEMA Disconnect Switches

Specifications

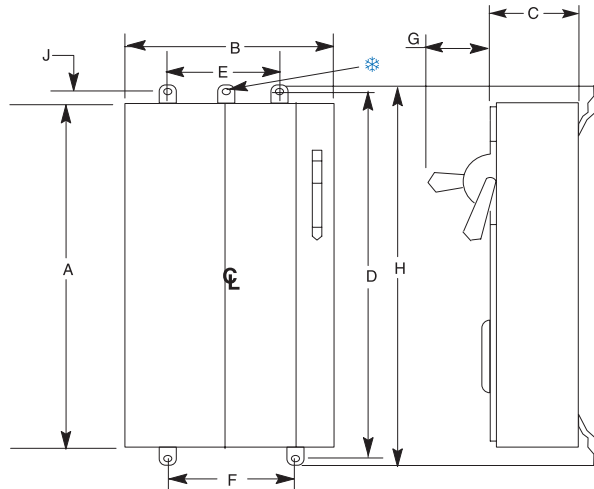
Bulletin 1494C, 1494F, 1494G, 1494R, 1494V Disconnect Switches

Disconnect Switch Electrical Ratings								
Switch Size			30 A	60 A	100 A	200 A	400 A	600 A
Rated insulation voltage Ui (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 250V DC	30	60	100	200	400	600
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
Auxiliary Contact Electrical Ratings								
NEMA/EEMAC			B600, P300					
IEC Ratings			Ui 660V		Ith 10 A			
			ACII Ux		12...120V		Ic	6 A 3 A 1.5 A 1.2 A
					220...240V			
					380...400V			
500...600V								
Low level switching			5 mA @ 12V 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)			20 000 operations (30...200 A) 10 000 operations (400...600 A)					
Switching frequency (operations/hr)			30, 60, 100, and 200 A sizes — 300 max. 400 and 600 A sizes — 240 max.					
Environmental								
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)					
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					
Construction								
Switch body material			Phenolic					
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						
	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 (mm²)	30 A	#14...8 AWG (1.5...10 mm²)						
	60 A	#14...4 AWG (2.5...16 mm²)						
	100 A	#8...1/0 AWG (10...50 mm²)						
	200 A	#6...4/0 AWG (16...95 mm²)						
	400 A	2 of #1/0 AWG...250 MCM (2 per lug) 2 of 185 mm²...250 MCM or (1) #4 AWG...500 MCM						
	600 A	2 of #1/0 AWG...350 MCM (2 per lug) 2 of 185 mm²...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	325 lb•in				175 lb•in		
Switches, Mechanisms, and Accessory Kits			Zinc-plated steel, RoHS Compliant finish					

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

Bulletin 1494G, 1494GX, 1494GY Enclosed Disconnect Safety Switches

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



Size [A]	Fuse Style*	Number of Poles	Bulletin No.	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)	*	5-1/4 (133)	5-9/16 (141)	15-21/32 (398)	11/32 (9)	20 (9.07)
60													
30	B	2 or 3	1494G	20 (509)	10-1/2 (267)	10-3/16 (259)	21-7/16 (545)	*	5-1/4 (133)	5-9/16 (141)	22-13/32 (569)	11/32 (9)	30 (13.6)
60													
100	A	6	1494G	27-1/2 (698)	10-1/2 (267)	8-1/4 (210)	28-7/8 (733)	*	5-1/4 (133)	5-9/16 (141)	29-7/8 (759)	13/16 (21)	60 (27.21)
30	C												
60	D												
100	C												
30	A	2 or 3	1494GY	27-1/2 (698)	10-1/2 (267)	8-1/4 (210)	28-7/8 (733)	*	5-1/4 (133)	5-9/16 (141)	29-7/8 (759)	13/16 (21)	60 (27.21)
60	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												
100	D	6	1494G	31-1/2 (800)	10-1/2 (267)	10-3/32 (257)	32-7/8 (835)	*	5-1/4 (133)	5-9/16 (141)	33-27/32 (860)	11/32 (9)	70 (31.73)
100	A	2 or 3	1494GY										
100	B	2 or 3	1494G	31-1/2 (800)	10-1/2 (267)	10-3/32 (257)	32-7/8 (835)	*	5-1/4 (133)	5-9/16 (141)	33-27/32 (860)	11/32 (9)	70 (31.73)
100	C	6											
200	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)	5-9/16 (141)	52-11/32 (1330)	11/32 (9)	200 (90.7)
200	B	2 or 3											
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	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)
400	B												
600	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												

* 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

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



Allen-Bradley

www.ab.com/catalogs Preferred availability cat. nos. are **bold**.

Publication A117-CA001A-EN-P