Safety Switches

Catalog

3130CT2401
Release date 05/25

Light Duty

General Duty

Heavy Duty


Stainless Steel Heavy Duty

Legal Information

The information provided in this document contains general descriptions, technical characteristics and/or recommendations related to products/solutions.

This document is not intended as a substitute for a detailed study or operational and site-specific development or schematic plan. It is not to be used for determining suitability or reliability of the products/solutions for specific user applications. It is the duty of any such user to perform or have any professional expert of its choice (integrator, specifier or the like) perform the appropriate and comprehensive risk analysis, evaluation and testing of the products/solutions with respect to the relevant specific application or use thereof.

The Schneider Electric brand and any trademarks of Schneider Electric SE and its subsidiaries referred to in this document are the property of Schneider Electric SE or its subsidiaries. All other brands may be trademarks of their respective owner.

Schneider Electric does not grant any right or license for commercial use of the document or its content, except for a non-exclusive and personal license to consult it on an "as is" basis.

Schneider Electric reserves the right to make changes or updates with respect to or in the content of this document or the format thereof, at any time without notice.

To the extent permitted by applicable law, no responsibility or liability is assumed by Schneider Electric and its subsidiaries for any errors or omissions in the informational content of this document, as well as any non-intended use or misuse of the content thereof.

Table of Contents

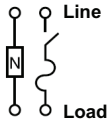
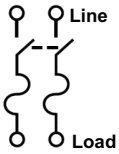
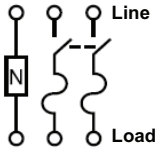
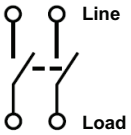
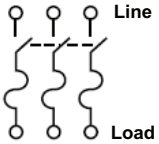
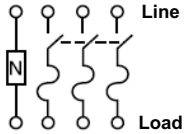
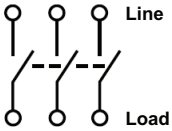
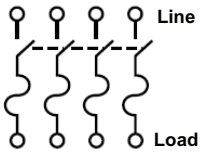
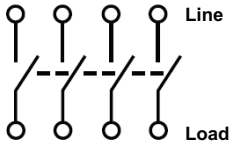
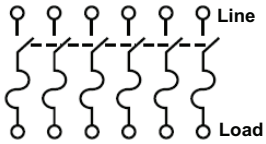
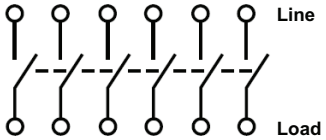
EZ Selector–Selection Assistance

Steps to select a safety switch

1. Select product type:
   - General duty safety switch
   - Heavy duty safety switch
   - Double throw safety switch
2. Select switch type.
3. Select fuse type: fused, non-fused, cartridge, or plug
4. Select maximum voltage: 240 Vac / 250 Vdc, 600 Vac / 600 Vdc
5. Select amperes:
   - General/light duty–30, 60, 100, 200, 400, 600 A
   - Heavy duty–30, 60, 100, 200, 225, 400, 600, 800, 1200 A
   - Double throw–30, 60, 100, 200, 600 A
6. Select number of poles:
   - General/light duty–1, 2 or 3
   - Heavy duty–2, 3, 4 or 6
   - Double Throw–2, 3, 4 or 6
7. Select if neutral is needed.
8. Select enclosure type:
   - General/light duty– 1, 3R
   - Heavy duty– 1, 3R, 12, 4, 4X (stainless steel 304), 4, 4X (stainless steel 316)
   - Double throw– 1, 3R, 12, 4, 4X (stainless steel 304)
   - Optional enclosure types for special heavy duty applications.

Wiring Diagrams

Table 1 - Wiring Diagrams

Fuse	Fused with Neutral	Non-Fused
	Two-wire (1 blade and fuse holder) 	
Two-wire (2 blades and fuse holder) 	Three-wire (2 blades and fuse holder) 	Two-wire (2 blades) 
Three-wire (3 blades and fuse holders) 	Four-wire (3 blades and fuse holders) 	Three-wire (3 blades) 
Four-wire (4 blades and fuse holders) 		Four wires (4 blades) 
Six-wire (6 blades and fuse holders) 		Six-wires (6 blades) 

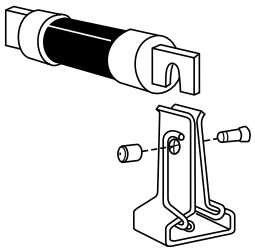
Enclosure Options

Enclosure units are third party certified to Underwriters Laboratories UL® 50E and CSA C22.2 No. 94.2.

Type 1	Design for indoor use provide degree of protection against access to hazardous parts, protects against ingress of solid foreign objects.
Type 3R	Design for indoor or outdoor use provide degree of protection against access to hazardous parts, protects against ingress of solid foreign objects, degree of protection to due ingress of water (rain, sleet, snow) and will remain undamaged by external formation of ice.
Type 4X	Design for indoor or outdoor use provide degree of protection against access to hazardous parts, prevents ingress of solid foreign objects, degree of protection to due ingress of water (rain, sleet, snow, splashing water, and hose directed water) and provides additional protection against corrosion, and will remain undamaged by external formation of ice.
Type 12	Design for indoor use provide degree of protection against access to hazardous parts, protects against ingress of solid foreign objects (falling dirt and circulating dust, ling, fibers, and flyings) provide degree of protection due to ingress of water (dripping and light splashing).

- Type 4X enclosures can be used for Type 4 or Type 5 applications.
- Type 12 enclosures can be used for Type 5 applications and Type 3R via removal of drip hole knock out or drain screw.
- Type 3R (800 and 1200 A Heavy Duty) are shipped as Type 5 must remove drain screw for Type 3R applications.

Class H, R, J, and L Fuse Provisions



Class R Fuse

Plug Type Fuses: Fuses for standard circuits (not high-voltage appliance circuits) are called plug fuses and have screw-in bases. There are two different types of bases and screw-in fuses: the Edison base (found on Type T fuses) and the rejection base (found on Type S fuses).

Class H or K Fuse Provisions: Fusible Square D™ 30–600 A heavy duty safety switches accept Class H or K fuses as standard. With Class H or K fuses installed, the switch is UL Listed and/or CSA certified for use on systems with up to 10 kA available short circuit current.

Class R Fuse Provisions: Fusible Square D 30–600 A heavy duty safety switches will accept Class R fuses as standard. A field-installed rejection kit is available which, when installed, accepts only Class R fuses. With the installation of the rejection kit and Class R fuses, the switch is UL Listed and/or CSA certified for use on systems with up to 200 kA available short circuit current.

Class J Fuse Provisions: Provisions for installing Class J fuses are included in 30–400 A 600 Volt, and 100–400 A 240 Volt, fusible heavy duty safety switches. Conversion to Class J fuse spacing requires relocating the load side fuse base assembly from the standard Class H fuse location to an alternate position as marked in the enclosure. With Class J fuses installed, the switch is UL Listed and/or CSA certified for use on systems with up to 200 kA available short circuit current. Switches rated 600 A, 240 or 600 Volt require the addition of an adapter kit: H600J.

Class L Fuse Provisions: Fusible 800 and 1200 A safety switches use Class L bolt-in fuses and are rated for use on systems with up to 200 kA at 600 Vac maximum. 1200 A switches accept class L fuses from 601–1200 A, 800 A switches accept Class L fuses from 601–800 A.

Light Duty Safety Switches

Light Duty–Visible Blades 10 kA Short Circuit Current Rating

L111N

The Square D light duty enclosed switch is ideal for home applications in disconnecting power to workshops, hobby rooms, furnaces, and garages. Not suitable for use as service equipment.

The light duty safety switch has visible blades and a ground lug as standard features.

Table 2 - Light Duty 120 V or 120/240 Volt–Single Throw Fusible Switches

System	Amperes	Type 1 Indoor Cat. No.	Equipment Ground Kit	Horsepower Ratings			
				Std (Fast Acting One-Time Fuses)		Max (Dual Element Time-Delay Fuses)	
				120 V	240 V	120 V	240 V
Two–Wire (One Blade and Fuseholder, One Neutral)–120 Vac Plug Type Fuses							
	30	L111N	Standard	–	–	–	–
Three–Wire (Two Blade and Fuseholder, One Neutral)–120/240 Vac Plug Type Fuses							
	30	L211N	Standard	1/2	1 1/2	2	3
Three–Wire (Two Blade and Fuseholder, One Neutral)–120/240 Vac Cartridge Type Fuses							
	30	L221N	Standard	1/2	1 1/2	2	2

General Duty Safety Switches

General Duty–Up To 100 kA Short Circuit Current Rating

CD223N

General duty safety switches are designed for residential and commercial applications where durability and economy are prime considerations. Typical loads are lighting, air conditioning, and appliances.

General duty safety switches are suitable for use as service equipment when equipped with a factory bonded neutral assembly and ground lug.

240 Volt–Single Throw Fusible Switches

Table 3 - Fusible Single Throw Safety Switches

System	Amperes	Type 1	Type 3R[1]	Line Side Barrier	Horsepower Ratings					
					STD (Fast Acting One-Time Fuses)			MAX. (Dual Element Time-Delay Fuses)		
					120 Vac	240 Vac		120 Vac	240 Vac	
					1Ø	1Ø	3Ø	1Ø	1Ø	3Ø
Two–Wire (One Blade and Fuseholder, One Neutral)–120 Vac										
Use Light Duty Devices or use three-wire devices										
Three–Wire (Two Blade and Fuseholder, One Neutral)–120/240 Vac Plug Type Fuses										
	30	CD211N[2]	–	–	1/2	1-1/2	–	2	3	–
Three–Wire (Two Blade and Fuseholder, One Neutral)–120/240 Vac Cart. Type Fuses										
	30	CD221N[2]	–	–	–	1-1/2	3[3]	–	3	7-1/2[3]
	60	CD222N	CD222NRB	Factory Included	1-1/2	3	7-1/2[3]	3	10	15[3]
	100	CD223N	CD223NRB		–	7-1/2	15[3]	–	15	30[3]
	200	CD224N[4]	CD224NRB[4]		–	15	25[3]	–	–	60[3]
	400	CD225N	CD225NRB	LSBI02	–	–	50	–	–	125
	600[5]	CD226N	CD226NRB	LSBI02	–	–	75	–	–	150
Four–Wire (Three Blade and Fuseholder, One Neutral)–120/240 Vac Cart. Type Fuses										
	30	CD321N[2]	CD321NRB[2]	–	–	–	-	–	3	7-1/2
	60	CD322N	CD322NRB	Factory Included	1-1/2	3	7-1/2[6]	3	10	15[6]
	100	CD323N	CD323NRB		–	7-1/2	15[6]	–	15	30[6]
	200	CD324N[4]	CD324NRB[4]		–	15	25[6]	–	–	60[6]
	400	CD325N	CD325NRB	LSBI02	–	–	50	–	–	125
	600[5]	CD326N	CD326NRB	LSBI02	–	–	75	–	–	150

1. Bolt-on hubs–Refer to Rainproof Bolt-On Hubs, page 28.
2. These items are NOT suitable for use as service equipment.
3. For corner grounded delta systems, use switching poles for ungrounded conductors. See data bulletin 2700DB0202 for additional information.
4. For 200% neutral, order (1) additional neutral kit CSN20 and (1) neutral jumper kit SN20NI.
5. Order Class J Fuse Kit GDJK600 if using Class J fuses.
6. If corner grounded delta system, use outer switching poles for ungrounded conductors.

Table 4 - Short Circuit Current Ratings–AC Only

Fuse Class	Short Circuit Rating
Plug	10 kA
H, K	
R	10 kA [7]
R with Rejection Fuse Clips	100 kA
J	

NOTE:

- Class J fuse provisions:
  - Not available on 30–100 A general duty safety switches.
  - Available on 200–400 A general duty safety switches. Field relocation of the load side fuse base assemblies to the alternate Class J fuse position marked in the switch is required.
  - Available on 600 A general duty safety switches. Field installation on Class J Fuse kit GDJK600 is required.

Accessories and Lug Data

Field-Installed Fuse Puller Kits

FPK03 Fuse Puller Kit
Series F Fusible Switches Only

Kit consists of three fuse pullers as required for a three-pole, fusible, 60 or 100 A general duty switch. Kits can be installed only in 60 or 100 A Series F fusible switches.

Table 5 - Fuse Puller Kits

Switch Ampere Rating	Series No.	Cat. No.
60	F	FPK03
100		FPK0610

7. Class R fuses are rated for 100 kA. However, without the rejection fuse clips the system is limited to 10 kA since Class H or K fused could be installed in the future.

Field-Installed Electrical Interlock Kits

EIK031

EIK1

Electrical interlocks for Series F 100–200 A general duty safety switches and Series F 60 A fusible general duty safety switches are available in kit form for field installation. Each kit contains instructions for proper field mounting. A pivot arm operates from switch mechanism, breaking the control circuit before the main switch blades break. Electrical interlock kits are CSA certified.

Table 6 - Electrical Interlock Kit

Switch Amperes Rating	Electrical Interlock Kit Cat. No. [8]
Series F 60	EIK031 or EIK032
Series F 100–200	EIK1 or EIK2

Table 7 - Electrical Interlock Contact Ratings[9]

Interlock Type	AC 50 or 60 Hz				DC		
	Volts	Make	Break	Cont.	Volts	Make / Break	Cont.
1 N. O. / 1 N. C. Contact (-1 Suffix [10])	120	40 A	15 A	15 A	115	0.50 A	15 A
	240	20 A	10 A		230	0.25 A	
2 N. O. / 2 N. C. Contacts (-2 Suffix [11])	120	30 A	3 A	10 A	115	1.00 A	10 A
	240	15 A	1.5 A		230	0.30 A	

Class R Fuse Kits

CSA certified rejection kits are available. When installed, the kit rejects all but class R fuses. Kits are available for field installation.

Ampere Rating	Catalog Number
30	DRK30
60 (F-series)	RFK03H
100 (F-series)	RFK10
200	HRK1020
400	DRK40
600	DRK600

8. Electrical interlock kit catalog numbers with -1 suffix indicate one normally open and one normally closed contact; -2 indicates two normally open and two normally closed contacts.
9. Single-pole single-throw interlock kits are rated 1/2 hp at 110 and 220 Vac.
10. -1 Suffix uses a 9007A01 limit switch.
11. -2 Suffix uses a 9007C03 limit switch.

Equipment Grounding Kits

PK3GTA1

GTK0610

PKOGTA2

Table 8 - Equipment Grounding Kits

Switch Ampere Rating	Cat. No.	Lug Wire Range (AWG)
30 [12]	Std.	(1) 14–10 Cu or (1) 12–8 Al
30	PK3GTA1	(3) 14–4 Cu or (3) 12–4 Al or (6) 14–12 Cu or (6) 12–10 Al
60 [13]	GTK03	(2) 14–4 Cu or (2) 12–4 Al (4) 14–12 Cu or (4) 12–10 Al
100	GTK0610	(2) 14–1/0 Cu or (2) 12–1/0 Al (2) 14–6 Cu or (2) 12–6 Al
200	PKOGTA2	(2) 10–2/0 Cu or (2) 6–2/0 Cu Al
400, 600	PKOGTA2 [14]	(2) 10–2/0 Cu or (2) 6–2/0 Cu Al

NOTE: Canadian general duty safety switches come complete with factory installed grounding kits.

Field-Installed Lug Kit 400–600 A

Table 9 - Field-Installed Lug Kit 400–600 A

Switch Ampere Rating	Lug Kit Cat. No.	Wire Range
400 or 600 Series E01, E02, and E03[15]	GD4060LK	1-1/0-600 kcmil 2-1/0-500 kcmil 4-1/0-250 kcmil

Line Side Barrier Kits

Barrier kits protect against inadvertent contact with line side, uninsulated, ungrounded, or service terminal live parts.

Table 10 - Line Side Barrier Kits for General Duty Safety Switches

Amperes	Voltage	Blades/Fuses	Catalog
60[16]	240	2 or 3	LSBD202
100	240		LSBC02
200	240	2	LSBE202
		3	LSBE203
400 / 600 / 800	240	2 or 3	LSBI02

12. Light duty switches only.
13. 60 A non-fusible switches accept PK3GTA1.
14. Two required if ground conductors are run in parrellel.
15. Not suitable for use on 400 A Type 3R.
16. Only for fused applications.

Terminal Lug Data

Table 11 - Terminal Lug Data [17]

Amperes	Conductors Per Phase	Lug Wire Range AWG/kcmil
30[18]	1	12–8 (Al) or 14–8 (Cu)
30		12–6 (Al) or 14–6 (Cu)
60		12–2 (Al) or 14–2 (Cu)
100		12–1/0 (Al) or 14–1/0 (Cu)
200		6–250 (Al/Cu)
400 Type 1	1 or 2	(1) 1/0–750 (Al/Cu) or (2) 1/0–300 (Al/Cu)
400 Type 3R	2	(1) 1–600 (Al/Cu) or (2) 1/0–250 (Al/Cu)
600		4–600 (Al/Cu)
800	3	3/0–500 (Al/Cu)

17. 30–100 A switches suitable for 60°C or 75°C conductors. 200–600 A switches suitable for 75°C conductors.
18. Light duty switches only.

Dimensions for General Duty Safety Switches

Table 12 - Approximate Dimensions

Cat. No.	Series	H		W		W/H		D		Std. Pack
		in.	mm	in.	mm	in.	mm	in.	mm	
L111N	E2	7.63	194	5.00	127	6.13	156	4.00	102	1
L211N	E2	7.63	194	5.00	127	6.13	156	4.00	102	1
L221N	E2	7.63	194	5.00	127	6.13	156	4.00	102	1
CD211N	E3	9.25	235	6.75	171	7.25	184	3.63	92	5
CD221N	E3	9.25	235	6.75	171	7.25	184	3.63	92	5
CD221NRB	E3	9.63	245	7.25	184	7.75	197	3.75	95	5
CD222N	F1	14.63	372	6.50	165	7.45	189	4.88	124	1
CD222NRB	F1	14.88	378	6.63	168	7.45	189	4.88	124	1
CD223N	F3	17.50	445	8.50	216	10.50	267	6.50	165	1
CD223NRB	F3	17.50	445	8.50	216	10.50	267	6.50	165	1
CD224N	F1	29.00	737	17.25	438	19.00	483	8.25	210	1
CD224NRB	F1	29.25	743	17.25	438	19.00	483	8.25	210	1
CD225N	E3	45.12	1146	24.00	610	24.88	632	8.88	226	1
CD225NR	E1	30.63	778	21.38	543	22.25	565	10.13	257	1
CD226N	E3	49.13	1248	24.00	610	24.88	632	8.88	226	1
CD226NR	E1	49.13	1248	24.75	629	25.13	638	8.88	226	1
CD321N	E3	9.25	235	6.75	171	7.25	184	3.63	92	5
CD321NRB	E3	9.63	245	7.25	184	7.75	197	3.75	95	5
CD322N	F1	14.63	372	6.50	165	7.45	189	4.88	124	1
CD322NRB	F1	14.88	378	6.63	168	7.45	189	4.88	124	1
CD323N	F3	17.50	445	8.50	216	10.50	267	6.50	165	1
CD323NRB	F3	17.50	445	8.50	216	10.50	267	6.50	165	1
CD324N	F1	29.00	737	17.25	438	19.00	483	8.25	210	1
CD324NRB	F1	29.25	743	17.25	438	19.00	483	8.25	210	1
CD325N	E3	45.12	1146	24.00	610	24.88	632	8.88	226	1
CD325NR	E1	30.63	778	21.38	543	22.25	565	10.13	257	1
CD326N	E3	49.13	1248	24.00	610	24.88	632	8.88	226	1
CD326NR	E1	49.13	1248	24.75	629	25.13	638	8.88	226	1

Heavy Duty Safety Switches

Type 1

Type 3R

Type 12

Type 4, 4x, 5 Stainless Steel

Visible blade heavy duty safety switches are designed for application where maximum performance and continuity of service are required. Heavy duty safety switches feature quick-make, quick-break operating mechanism, a dual cover interlock and a color coded indicator handle. They are suitable for use as service equipment when equipped with a factory-installed neutral assembly and grounding lugs, unless a 600Y/347 V or 480 Y/277 V, 1000 A or greater, solidly grounded Wye system is used. For short circuit current ratings, see Maximum Short Circuit Current Ratings, page 20.

240 Volt–Single Throw Fusible Switches

Table 13 - 240 Volt–Single Throw Fusible Switches (Suitable for Service Entrance)

System	Amperes	Type 1[19]	Type 3R[19 20]	Type 12[20 21]	Type 4X 304 SS[20]	Line Side Barriers[22]	Horsepower Ratings				
							Std (Fast Acting One-Time Fuses)		Max (Dual Element Time-Delay Fuses)		250 Vdc[23]
							1Ø	3Ø[24]	1Ø	3Ø[24]	
Three–Wire (Two Blade and Fuseholder, One Neutral)–240 Vac 250 Vdc											
	30	VH221BGL	VH221BRBGL	VH221BAWKGL	VH221BDSGL	Factory Included	1-1/2	3	3	7-1/2	5
	60	VH222BGL	VH222BRBGL	VH222BAWKGL	VH222BDSGL		3	7-1/2	10	15	10
	100	VH223BGL	VH223BRBGL	VH223BAWKGL	VH223BDSGL		7-1/2	15	15	30	20
	200	VH224BGL	VH224BRGL[25]	VH224BAWKGL	VH224BDSGL		15	25	–	60	40
	400	CH225N	CH225NR	CH225NAWK	–	LSBG202	–	50	–	125	50
	600	CH226N	CH226NR	–		LSBG202	–	75	–	200	50
	800	CH227N	CH227NR	CH227NAWK		LSBF202	50	–	–	–	50
	1200	CH228N	CH228NR	CH228NAWK		LSBF202	50	–	–	–	50
Four–Wire (Three Blade and Fuseholder, One Neutral)–240 Vac 250 Vdc											
	30	VH321BGL	VH321BRBGL	VH321BAWKGL	VH321BDSGL	Factory Included	1-1/2	3	3	7-1/2	5
	60	VH322BGL	VH322BRBGL	VH322BAWKGL	VH322BDSGL		3	7-1/2	10	15	10
	100	VH323BGL	VH323BRBGL	VH323BAWKGL	VH323BDSGL		7-1/2	15	15	30	20
	200	VH324BGL	VH324BRGL[25]	VH324BAWKGL	VH324BDSGL		15	25	–	60	40
	400	CH325N	CH325NR	CH325NAWK	CH325NDS	LSBG203	–	50	–	125	50
	600	CH326N	CH326NR	CH326NAWK	CH326NDS	LSBG203	–	75	–	200	50
	800	CH327N	CH327NR	CH327NAWK	–	LSBF203	–	100	–	250	50
	1200	CH328N	CH328NR	CH328NAWK	–	LSBF203	–	100	–	250	50

NOTE:

- For installing class J fuses:
  - Relocation of the load side fuse base assembly is required in 100–400 A, 240 V switches.
  - Addition of an adapter kit H600J is required in 600 A switches.
- 30–600 A 240 V switches accept class R fuses as standard.

19. Type 3R switches with “RB” suffix are supplied with main entry hole cut in top endwall and closing cap (BCAP) installed. Hole accepts 3/4 in. to 2-1/2 in. hubs.
20. For rainproof bolt-on hubs and water-resistant hubs.
21. Type 12 switches are suitable for Type 3R application by removing the drain screw from bottom endwall.
22. Between 30-200 A line side barriers are factory included to protect against inadvertent contact with live parts. For other ranges kit numbers are listed.
23. For switching DC, use two outside switching poles.
24. For corner grounded delta systems, use switching poles for ungrounded conductors. See data bulletin 2700DB0202 for additional information.
25. This catalog is shipped with HUB provision and knockouts.

600 Volt–Single Throw Fusible Switches

Table 14 - 600 Volt–Single Throw Fusible

System	Amperes	Type 1	Type 3R[26]	Type 12[26]	Type 4X 304 SS[26]	Line Side Barriers	Horsepower Ratings					
							Std (Fast Acting One-Time Fuses)		Max (Dual Element Time-Delay Fuses)		250 Vdc[27]	600 Vdc[27]
							480 Vac		600 Vac			
							1Ø	3Ø	1Ø	3Ø		
Three–Wire (Three Blade and Fuseholder)–600 Vac 600 Vdc												
	30	VH361GL	VH361RBGL	VH361AWKGL	VH361DSGL	Factory Included	3	5	–	20	5	10
	60	VH362GL	VH362RBGL	VH362AWKGL	VH362DSGL		5	15	–	50	–	25
	100	VH363GL	VH363RBGL	VH363AWKGL	VH363DSGL		10	25	–	75	–	40
	200	VH364GL	VH362RGL[28]	VH364AWKGL	VH364DSGL		25	50	50	150	40	50
	400	CH365	CH365R	CH365AWK	CH365DS	LSBG602	–	100	–	350	50	50
	600	CH366	CH366R	CH366AWK	CH366DS	LSBG602	–	150	–	500	50	50
	800	H367	H367R	H367AWK	–	LSBF602	–	200	–	500	50	50
	1200	H368	H368R	H368AWK		LSBF602	–	200	–	500	50	50
Four–Wire (Three Blade and Fuseholder, One Neutral)–600 Vac 600 Vdc[29]												
	30	VH361BGL	VH361BRBGL	VH361BAWKGL	VH361BDSGL	Factory Included	3	5	–	20	5	15
	60	VH362BGL	VH362BRBGL	VH362BAWKGL	VH362BDSGL		5	15	–	50	–	25
	100	VH363BGL	VH363BRBGL	VH363BAWKGL	VH363BDSGL		10	25	–	75	–	40
	200	VH364BGL	VH364BRGL[28]	VH364BAWKGL	VH364BDSGL		25	50	50	150	40	50
	400	CH365N	CH365NR	CH365NAWK	CH365NDS	LSBG602	–	100	–	350	50	50
	600	CH366N	CH366NR	CH366NAWK	–	LSBG602	–	150	–	500	50	50
	800	CH367N	CH367NR	CH367NAWK		LSBF602	–	200	–	500	50	50
	1200	CH368N	CH368NR	CH368NAWK		LSBF602	–	200	–	500	50	50

NOTE:

- Provisions for installing class H, R fuses are included in 30–200 A 600 V fusible switches. Relocation of the load side fuse base assembly is required.
- For installing class J fuses:
  - Relocation of the load side fuse base assembly is required in 400 A, 600 V fusible switches.
  - Addition of an adapter kit H600J is required for 600 A, 600 V fusible switches.

26. For rainproof bolt-on hubs and water-resistant hubs.
27. For switching DC, use two outside switching poles. HP ratings are showing Std (Fast Acting One-Time Fuses).
28. This catalog is shipped with HUB provision and knockouts.
29. Four–wire fusible switches are suitable for service entrance applications except 1200 A.

600 Volt–Single Throw Non-Fusible Switches

Table 15 - 600 Volt–Single Throw Non-Fusible (Not Suitable for Service Entrance)

System	Amperes	Type 1	Type 3R[30 31]	Type 12[30 32]	Type 4X 304 SS[30]	Line Side Barriers	Horsepower Ratings				
							240 Vac Max. 3Ø	480 Vac Max. 3Ø	600 Vac Max. 3Ø	250 Vdc[33]	600 Vdc[3334]
Three–Wire (Three Blade)–600 Vac 600 Vdc											
	30	VHU361GL	VHU361RBGL	VHU361AWKGL	VHU361DSGL	Factory Included [35]	10	20	30	5	15
	60	VHU362GL	VHU362RBGL	VHU362AWKGL	VHU362DSGL		20[36]	50[36]	60	10	30
	100	VHU363GL	VHU363RBGL	VHU363AWKGL	VHU363DSGL		40	75[36]	100	20	50
	200	VHU364GL	VHU364RGL[37]	VHU364AWKGL	VHU364DSGL		60	125	150	40	50
	400	CHU365	CHU365R	CHU365AWK	CHU365DS	LSBG602	125	250	350	50	50
	600	CHU366	CHU366R	CHU366AWK	CHU366DS	LSBG602	200	400	500	50	50
	800	HU367	HU367R	HU367AWK	–	LSBF602	250	500	500	50	50
	1200	HU368	HU368R	HU368AWK		LSBF602	250	500	500	50	50

30. For rainproof bolt-on hubs and water-resistant hubs.
31. Type 3R switches with “RB” suffix are supplied with main entry hole cut in top endwall and closing cap (BCAP) installed. Hole accepts 3/4 in. to 2-1/2 in. hubs.
32. Type 12 switches are suitable for Type 3R application by removing the drain screw from bottom endwall.
33. For switching DC, use two outside switching poles.
34. 400–1200 A reflect Std (Fast Acting One-Time Fuses) HP. 30–200 A reflect Max (Dual Element Time- Delay Fuses) HP.
35. Factory Included to protect against inadvertent contact with live parts.
36. Not applicable for corner grounded delta.
37. This catalog is shipped with HUB provision and knockouts.

Four– and Six–Pole Single Throw Switches

Table 16 - Four– and Six–Pole Single Throw Fusible (Not Suitable for Service Entrance)

System	Amperes	Type 1	Type 12[38]	Type 4X	Class R Fuse Kits	Line Side Barriers	Horsepower Ratings Max (Dual Element Time-Delay Fuses)						Vdc Std. (Fast Acting One-time Fuses)	
							240 V		480 V		600 V		250 Vdc[39]	600 Vdc[39]
							2Ø	3Ø	2Ø	3Ø	2Ø	3Ø		
Four-Wire (Four Blades and Fuse Holders)–600 Vac 600 Vdc														
	30	H461	H461AWK	H461DS	RFK03L	Factory Included	10	7-1/2	20	15	25	20	5	10
	60	H462	H462AWK	H462DS	RFK03H		20	15	40	30	50	50	10	25
	100	H463	H463AWK	H463DS	RFK10		30	30	50	60	50	75	20	25
	200	H464	H464AWK	H464DS	HRK1020		50	60	–	125	–	150	40	50
	400	–	H465AWK	–	HRK4060	Qty. 2 LSBG602	–	125	–	250	–	350	50	50
Six-Wire (Six Blades and Fuse Holders)–600 Vac 600 Vdc														
	100	–	H663AWK	–	RFK10	Factory Included	–	30	–	60	–	75	–	–
	200		H664AWK[40]		HRK1020		50	60	–	125	–	150	40	50

Table 17 - Four– and Six–Pole Single Throw Non-Fusible (Not Suitable for Service Entrance)

System	Amperes	Type 1	Type 12[38]	Type 4X	Class R Fuse Kits	Line Side Barriers	Horsepower Ratings Max (Dual Element Time-Delay Fuses)							
							240 V		480 V		600 V		250 Vdc[41]	600 Vdc[41]
							2Ø	3Ø	2Ø	3Ø	2Ø	3Ø		
Four-Wire (Four Blades)–600 Vac 600 Vdc														
	30	HU461[42]	HU461AWK[43]	HU461DS	RFK03L	Factory Included	10	10	20	20	25	30	10	15
	60	HU462[42]	HU462AWK	HU462DS	RFK03H		20	20	40	50	50	60	10	30
	100	HU463[42]	HU463AWK	HU463DS	RFK10		–	40	–	75	–	100	20	30
	200	HU464[42]	HU464AWK	HU464DS	HRK1020		15	60	50	125	50	150	40	50
	400	–	CHU465AWK[44]	–	HRK4060	Qty. (2): LSBG602	–	–	–	–	–	350	–	–
Six-Wire (Six Blades)–600 Vac 600 Vdc														
	30	–	HU661AWK	HU661DS	–	Factory Included	–	10	–	20	–	30	–	–
	60	–	HU662AWK	HU662DS	–		–	20	–	50	–	60	–	–
	100	–	HU663AWK	HU663DS	RFK10		–	40	–	75	–	75	–	–
	200	–	HU664AWK	HU664DS	HRK1020		–	60	–	125	–	150	–	–

38. Type 12 switches are suitable for type 3R applications by removing the drain screw from bottom endwall.
39. Use outside two poles for switching DC. 250 and 600 Vdc are showing standard ratings.
40. For applications requiring motor disconnect capability, use electrical interlock.
41. Use outside two poles for switching DC.
42. No knockouts are provided.
43. HU461AWK (Series F6) is rated 5 HP @ 250 Vdc, 10 HP @ 600 Vdc.
44. 600 Vac only.

Maximum Short Circuit Current Ratings–AC

NOTE: Consult the wiring diagram of the switch to verify certified short circuit current rating.

Fusible Safety Switches Ratings

Table 18 - Fusible Safety Switches

Heavy Duty Safety Switch Type	Fuse Class	Short Circuit Current Ratings
Fusible	H, K	10 kA
	R, J, L	200 kA [45]

45. On 600 V, 200 A switches, 100,000 A max. on corner grounded delta when using Class J or R fuses.

Non-Fusible Safety Switches – Ratings

Systems equal or less than 10 kAIR SCCR–Any brand of circuit breaker or fuse not exceeding the ampere rating of the switch may be used in conjunction with a non-fusible safety switch.

Systems above 10 kAIR SCCR–When applied on systems greater than 10 kA short circuit current available, the CSA certified short circuit current rating for Square D non-fusible switches is based upon the switch being used in conjunction with fuses or Square D circuit breakers.

Table 19 - Non-Fusible Safety Switches[46] [47]

Switch Rating (A)	Fuse or Circuit Breaker Type[48]	Three-Phase			250 Vdc / 600 Vdc
		240 Vac	480 Vac	600 Vac	
With Upstream Fuse Protection					
All	H, K	10 kA	10 kA	10 kA	Up to 10 kA
	R,T,J,L	200 kA	200 kA	200 kA	
With Upstream Circuit Breaker Protection					
All	Any brand circuit breaker	10 kA	10 kA	10 kA	Up to 10 kA
30–100	HD	25 kA	18 kA	14 kA	
	HG	65 kA	35 kA	18 kA	
	HJ			25 kA	
	HL			35 kA	
	HR				
	FA	14 kA	14 kA	14 kA	
	FH	18 kA	18 kA	18 kA	
200	HD, JD	25 kA		14 kA	
	HG, JG	65 kA	35 kA	18 kA	
	HJ, JJ		35 kA	25 kA	
	HL, JL			35 kA	
	HR, JR				
400	LA	22 kA	22 kA	22 kA	
	LH	25 kA	25 kA	25 kA	
400–600	LD		18 kA	14 kA	
	LG	65 kA	35 kA	18 kA	
	LJ	100 kA	65 kA	25 kA	
	LL			50 kA	
	LR			65 kA	

46. For Type 4X Fiberglass Reinforced Polyester switches, see Fiberglass Reinforced Polyester Enclosures Type 4X 3 Pole 600 Vac, 600 Vdc, page 23.
47. NEMA Type 7/9 SCCR 10 kAIR 600 Vac maximum.
48. Ampere rating of fuse or circuit breaker not to exceed switch ampere rating.

Special Application Heavy Duty Safety Switches

VH361SSGL

H363DF

H361DX

316 Grade Stainless Steel–Type 3, 3R, 4, 4X, 5, 12

VH361SSGL

316 stainless steel enclosure safety switches offer superior corrosion resistance to a wider range of chemicals than 304 stainless switches. 316 better resists chloride and is often used in marine, waste treatment and transportation applications. Use water resistant hubs, see Water Resistant Hubs, page 28. Equipment grounding lugs are supplied as standard through 200 A. See Terminal Lug Data, page 13 for wire Termination data for grounding lugs.

For 304 stainless switches, see 240 Volt, page 16 and 600 Volt, page 17.

Table 20 - 316 Grade Stainless Steel Three–Pole 600 Vac, 600 Vdc (Not Suitable for use as service equipment)

System	Amperes	Cat. No	Line Side Barriers[49]	Horsepower Ratings					
				Std. (Using Fast Acting, One-time Fuses)		Max. (Using Dual Element Time Delay Fuses)		250 Vdc[50]	600 Vdc[50]
				480 Vac		600 Vac			
				1Ø	3Ø	1Ø	3Ø		
Fusible Three–Wire (Three Blade and Fuse Holders)–600 Vac 600 Vdc									
	30	VH361SSGL	Factory included	3	5	–	20	5	10
	60	VH362SSGL		5	15	–	50	–	25
	100	VH363SSGL		10	25	–	75	–	40
	200	VH364SSGL		25	50	50	150	40	50
	400	H365SS	LSBG602	–	100	–	350	50	50
	600	H366SS		–	150	–	500	50	50
Non-Fusible Three–Wire (Three Blades)–600 Vac 600 Vdc									
	30	VHU361SSGL	Factory included	3	5	–	20	5	10
	60	VHU362SSGL		5	15	–	50	–	25
	100	VHU363SSGL		10	25	–	75	–	40
	200	VHU364SSGL		25	50	50	150	40	50
	400	HU365SS	LSBG602	–	100	–	350	50	50
	600	HU366SS		–	150	–	500	50	50

49. Factory included to protect against inadvertent contact with live parts.
50. For switching DC use two switching poles. HP ratings are showing standard ratings.

Fiberglass Reinforced Polyester Enclosures–Type 4X

H363DF

Fiberglass reinforced polyester enclosures are water resistant, corrosion resistant, and resists to windblown dust, rain, and splashing liquid. The molded fiberglass can withstand a wide range of operating temperatures and can withstand heavy impact. Switches are furnished with hubs, conduit provisions , and Equipment Grounding Kits, page 34 lugs. See CAD drawings of the switch to verify the short circuit current rating.

Table 21 - Fiberglass Reinforced Polyester Enclosures Type 4X Three–Pole 600 Vac, 600 Vdc (Not Suitable for use as service equipment)

System	Amperes	Cat. No.	Solid Neutral Assembly Kit	Class R Fuse Kits	Electrical Interlock Kits Field-Installed Cat. No.		Line Side Barriers Factory Included	Horsepower Ratings–3Ø					Hubs[51]
								480 Vac[52]		600 Vac[52]		600 Vdc Max.	
				Cat. No.	1 NO/1 NC Contacts	2 NO/2 NC Contacts		Std.	Max.	Std.	Max.		
Fusible Three–Wire (Three Blade and Fuse Holders)–600 Vac 600 Vdc													
	30	H361DF	CSN03	RFK06	9999TC10	9999TC20	Factory Included	5	15	7-1/2	20	15	3/4
	60	H362DF		RFK06H				15	30	15	50	25	1-1/4
	100	H363DF	CSN0610	RFK10				25	60	30	75	50	2
	200	H364DF	–	HRK1020	9999R8	–	–	50	125	60	150	50	2-1/2
Non-Fusible Three–Wire (Three Blade)–600 Vac 600 Vdc													
	30	HU361DF	CSN03	–	9999TC10	9999TC20	Factory Included	–	20	–	30	15	3/4
	60	HU362DF							50		60	30	1-1/4
	100	HU363DF	CSN0610						75		75	50	2
	200	HU364DF	–		9999R8	–	–		125		150	50	2–1/2

51. Two hubs and hub drilling template are provided for field installation.
52. Std.–Using fast acting, one-time fuses. Max.–Using dual element time delay fuses.

Krydon™ Enclosures – Type 4X

H361DX

Krydon enclosures are compression molded of fiberglass reinforced polyester, specially formulated to withstand attack from almost any corrosive atmosphere found in the toughest industrial application. Switches are furnished with water resistant hubs and equipment grounding lugs.

Safety Switches with Kydron Enclosures are UL Listed only and do not have Canadian compliance.

Table 22 - Krydon Enclosures–Type 4X Three-Pole 600 Vac, 600 Vdc

System	Amperes	Cat. No. [53]	Solid Neutral Assembly Kit	Class R Fuse Kits Cat. No.	Electrical Interlock Kits Field-Installed Cat. No.		Line Side Barriers Factory Included	Horsepower Ratings–3Ø					Hubs[54]
					1 NO / 1 NC Contact	2 NO / 2 NC Contacts		480 Vac[55]		600 Vac[55]		600 Vdc[56]	
								Std.	Max.	Std.	Max.	Max.	
Fusible Three–Wire (Three Blade and Fuse Holders)–600 Vac 600 Vdc													
	30	H361DX	CH60SN	RFK06	9999TC10	9999TC20	Factory Included	5	15	7-1/2	20	15	3/4 in.
	60	H362DX	CH60SN	RFK06H				15	30	15	50	30	1-1/4 in.
Non-Fusible Three– Wire (Three Blade)–600 Vac 600 Vdc													
	30	HU361DX	CH60SN	–	9999TC10	9999TC20	Factory Included	–	20	–	30	15	3/4 in.
	60	HU362DX	CH60SN						50		60	30	1-1/4 in.
	100	HU363DX	CSN0610						75		75	50	2 in.

53. Krydon Enclosures are UL Listed only.
54. Two hubs and hub drilling template are provided for field installation.
55. Std–Using fast acting one lime fuses. Max–Using dual element time delay fuses.
56. For switching DC, use two outside switching poles.

RCD Switches

The Schneider Electric RCD Safety Switch is a cost effective commercial disconnect, perfect for use in outdoor HVAC (Heating Ventilation and Air Conditioning), air handling and air compressor applications The RCD line provides a compact, yet easy to work in EEMAC 3R painted steel enclosures. Two sets of 1/2–3/4 in. combination knockouts are provided on the bottom and the back of the switch. The switch mechanism features front accessible terminals for easy installation. The RCD can be padlocked in the OFF position and provision only is made for padlocking in the ON position. All exposed hardware is rustproof stainless steel.

- Front accessible terminals
- Compact design
- Flush blackwall
- 1/2–3/4 in. knockouts
- Stainless steel hardware

Table 23 - EEMAC 3R Non-Fusible Weatherproof Switches (600 V Maximum)

Poles	Amperes	Cat. No.	Dimensions–in. (mm)				Max. HP Rating			
			H	W	D	Height	120 Vac	240 Vac	480 Vac	600 Vac
2	30	RCD5326	8 3/4 (222)	4 1/2 (222)	3 1/4 (83)	9 3/8 (238)	2	5	10	15
3		RCD5336					3	7.5	15	20
2	60	RCD5626					-	10		
3		RCD5636							25	30

NEMA Type 7 and 9 – Hazardous Locations

H60XBD

An enclosed automatic molded case switch for use in Divisions 1 and 2 of the following: Class I, Groups C and D; Class II, Groups E, F and G; or Class III, Hazardous Locations as defined in NEC Article 500. Furnished with threaded conduit openings in both top and bottom endwall. Not Suitable for use as service equipment. Listed as “Raintight” for outdoor applications.

Equipment grounding lugs supplied as standard. See CAD drawing of the switch to verify the short circuit current rating or the enclosed safety switch catalog.

Ampere Rating	Enclosed Molded Case Switch	Solid Neutral Assembly	Horsepower Ratings–3Ø			Size of Threaded Conduit Openings
	Cat. No.	Cat No.	240 Vac	480 Vac	600 Vac	
60	H60XBD	100SNA	15	30	50	3/4 in.
60	H60XBDAA					
100	H100XBD		30	60	75	1-1/4 in.
100	H100XBDAA					
225	H225XJG[57]	225SNA	60	125	150	2-1/2 in.

57. Not cULus listed.

Heavy Duty Receptacle Switches

Receptacle Switches with Appleton Receptacles

HU362AWAVW

Interlocked Receptacle Switches are furnished with a factory-installed three-phase four-wire Appleton Powertite™. The fourth wire is connected to the switch equipment grounding terminal and is not a solid neutral termination. Interlocking linkage between the receptacle and switch mechanism protects against insertion or removal of the plug while the switch is in the “ON” position or insertion of any plug other than specified. Grounding lugs are included. Receptacles are epoxy powder coated over copper-free cast aluminum.

Table 24 - Receptacle Switches with Appleton Receptacles Single Throw 600 Vac, Three-Pole

System	Amperes	Fuse Type Provision	Type 3R/12[58] [59]	Type 4/4X (Stainless Steel)[59]	Use with Appleton Plug	Horsepower Ratings–3Ø					
						480 Vac[60]		600 Vac[60]		250 Vdc[61]	
						Std.	Max.	Std.	Max.	Std.	Max.
Fusible Three-Pole, 600 Vac, 250 Vdc											
	30	H	H361AWAVW	H361DSWAVW	ACP3034BC	5	15	7-1/2	20	5	–
	60		H362AWAVW	H362DSWAVW	ACP6034BC	15	30	15	50	10	
	100		H363AWAVW	H363DSWAVW	ACP1034CD	25	60	30	75	20	
Non-Fusible Three-Pole, 600 Vac, 250 Vdc											
	30	–	HU361AWAVW	–	ACP3034BC	–	20	–	30	–	5
	60		HU362AWAVW		ACP6034BC		50		60		10
	100		HU363AWAVW		ACP1034CD		75		100		20

58. Type 3R/12 switches are suitable for Type 3R application by removing the drain screw from bottom endwall.
59. Type 3R/12, 4/4X are supplied with viewing window standard.
60. Std.–Using fast acting one time fuses. Max–Using dual element time delay fuses.
61. For switching DC, use two outside switching poles.

Receptacle Switches with Crouse-Hinds Receptacles

CHU361AWC

Interlocked Receptacle Switches are furnished with a factory-installed three-phase, four-wire Crouse-Hinds Style 2 Arktite™. The fourth wire is connected to the switch equipment grounding terminal and is not a solid neutral termination. Interlocking linkage between the receptacle and switch mechanism protects against insertion or removal of the plug while the switch is in the “ON’’ position or insertion of any plug other than specified. Grounding lugs are included. [62]

Table 25 - Receptacle Switches with Crouse-Hinds Receptacles

System	Amperes	Fuse Type Provi-sion	Type 3R/12[63]	Type 4/4X (Stainless Steel)	Use with Crouse-Hinds Plug	Horsepower Ratings–3Ø					
						480 Vac[64]		600 Vac[64]		250 Vdc[65]	
						Std.	Max.	Std.	Max.	Std.	Max.
Fusible Three–Pole, 600 Vac, 250 Vdc											
	30	J	CH361AWC	CH361DSWC	APJ3485	5	15	7 1/2	20	5	–
	60		CH362AWC	CH362DSWC	APJ6485	15	30	15	50	10	
	100		CH363AWC	CH363DSWC	APJ10487	25	60	30	75	20	
Non-Fusible Three–Pole, 600 Vac, 250 Vdc											
	30	–	CHU361AWC	CHU361DSWC	APJ3485	–	20	–	30	5	–
	60		CHU362AWC	CHU362DSWC	APJ6485		50		60	–	10
	100		CHU363AWC	CHU363DSWC	APJ10487		60		100	–	20

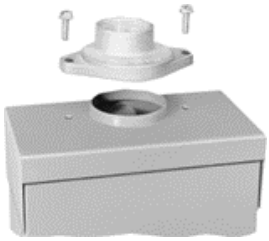
Table 26 - Appleton and Crouse-Hinds Receptacle Switch 600 Vac Short Circuit Current Rating

Amperes	10 kAIR Fuses	100 kAIR Fuses	200 kAIR Fuses	14 kAIR Circuit Breaker	18 kAIR Circuit Breaker
Fusible Three–Pole, 600 Vac, 250 Vdc					
30	H, K	–	J, R	–	–
60	H, K				
100	H, K				
Non-Fusible Three–Pole, 600 Vac, 250 Vdc					
30	H, K	J, R, T[66]	J, R, T	FA	FH
60	H, K	–			
100	H, K				

62. Type 3R/12 and 4/4X are supplied with viewing window standard.
63. For switching dc, use two outside switching poles.
64. Std.–Using fast acting one time fuses. Max.–Using dual element time delay fuses.
65. For switching DC, use two outside switching poles.
66. SCCR when using 60 A Max Fuse.

Heavy Duty Safety Switch Accessories

Rainproof Bolt-On Hubs and Water-Resistant Hubs



Rainproof Bolt-On Hubs

Rainproof Bolt-On Hubs

All hubs are for indoor or rainproof applications.

Suitable for use with conduit having ANSI standard taper pipe thread.

Type 3R switches with catalog number ending in RB have a bolt-on closing cap factory installed:

- Accepts 3/4 in. through 2-1/2 in. bolt-on hubs.
- No gaskets required.

Type 3R switches with R suffix have blank top endwalls [67]

- Accepts 3 in. through 4 in. bolt on hubs.
- Gaskets provided.
- Conduit entry holes must be cut in the field.

Table 27 - Rainproof Bolt-On Hubs [68]

Conduit Size	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	Closing Cap
Hub Cat. No	B075	B100	B125	B150	B200	B250	B300	B400	BCAP

Water Resistant Hubs

Water Resistant Hubs

- Suitable for use with conduit having ANSI standard taper pipe thread.
- Water resistant hubs are field installed on Type 4/4X/5 stainless steel and Type 12/3R and 12K enclosures.
- Water resistant hubs are available in zinc or chrome plated finish.
- Gaskets are provided.

Table 28 - Water Resistant Hubs[69]

Conduit Size	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
Standard-Zinc Hub Cat. No	-	H075	H100	H125	H150	H200	H250	H300	H350	H400
Chrome Plated Hub Cat. No.	H050CP	H075CP	H100CP	H125CP	H150CP	H200CP	–	–	–	–

67. 200 A Heavy Duty catalogs VH364NR , VH364R, VHU364R, VH224NR, VH324NR, and variants, comes with HUB provision and knockouts.
68. Gaskets are provided on 3 in. and larger hubs.
69. Gaskets are provided.

Electrical Interlock Kits

EIK1 Electrical Interlock Kit

Electrical interlocks for heavy duty safety switches 30 A through 1200 A are available as field installed kits, or on Type 12 or Type 4X enclosure factory installed. A pivot arm operates from the switch mechanism, breaking the control circuit before the main switch blades break.

For factory installation catalog numbers available on Type 12 or 4X enclosures use the product configurator.

Table 29 - Electrical Interlock Kits [70] [71] [72]

Switch Amperes Rating	Series Number[73]	Electrical Interlock Kit Cat. No.[74]
30	F5–F8	EIK031
		EIK032
60 (600 V)	F5–F8	EIK1
		EIK2
60 (240 V)	F5–F8	EIK031
		EIK032
100–200	F5–F8	EIK1
		EIK2
30–100 Receptacle Switches	F5–F7	EIK1
		EIK2
30–200 4- and 6-Pole Switches	F5–F6	EIK1
		EIK2
400–1200	E4–E5	EIK40601
		EIK40602

Table 30 - Electrical Interlock Contact Ratings [75]

Interlock Type	AC 50 or 60 Hz				DC		
	Volts	Make	Break	Cont.	Volts	Make / Break	Cont.
1 N. O. / 1 N. C. Contact (-1 Suffix [76])	120	40 A	15 A	15 A	115	0.50 A	15 A
	240	20 A	10 A		230	0.25 A	
	480	10 A	6 A		-	-	-
	600	8 A	5 A		600	0.05 A	15 A
2 N. O. / 2 N. C. Contacts (-2 Suffix [77])	120	30 A	3 A	10 A	115	1.0 A	10 A
	240	15 A	1.5 A		230	0.30 A	
	480	7.5 A	0.75 A		-	-	-
	600	6.0 A	0.60 A		600	0.10 A	10 A

70. For series not shown in table refer to the switch wiring diagram.
71. Electrical interlocks for Type 4X fiberblass reinforced polyester and Krydon™ see Fiberglass Reinforced Polyester Enclosures Type 4X 3 Pole 600 Vac, 600 Vdc, page 23 and Krydon Enclosures–Type 4X 3 Pole 600 Vac, 600 Vdc, page 24 respectively.
72. Electrical interlock kits are CSA and UL certified for installation in F and E series switches shown on this table.
73. See Dimensions for Heavy Duty Safety Switches, page 39 for safety switch series.
74. Electrical interlock kit catalog numbers ending in 1 indicates one normally open and one normally closed contact. These kits use a 9007A01 industrial snap switch. Electrical interlock kit catalog numbers ending in 2 indicates two normally open and two normally closed contacts. These kits use a 9007C03 industrial snap switch. Not suitable for Elevator use.
75. Single-pole single-throw interlock kits are rated 1/2 hp at 110 and 220 Vac.
76. -1 Suffix uses a 9007A01 limit switch.
77. -2 Suffix uses a 9007C03 limit switch.

Table 31 - Elevator Rated Electrical Interlocks [78] [79]

Amperes	240 VAC Elevator Interlock	600 VAC Elevator Interlock
30	EIK031EV	EIK031EV
60	EIK031EV	EIK06101EV
100	EIK06101EV	EIK06101EV
200	EIK201EV	EIK201EV

Class R Fuse Kits

When installed, the kit limits switch to Class R fuses only. Kits are available for field installation. Each kit supports one three pole switch.

Table 32 - 240 Vac–Class R Fuse Kits [80]

Amperes	Series Number	Class R Fuse Kit Cat. No.
30	F5–F6	RFK03L
60		RFK03H
100		RFK10
200		HRK1020
400–600	E4–E5	HRK4060

Table 33 - 600 Vac–Class R Fuse Kits [80] [81]

Amperes	Series Number	Class R Fuse Kit Cat. No.
30 [82]	F5–F6	RFK03H
30 A Receptacle Switches	F7	RFK06
30 A Four-Pole Switches	F5–F6	RFK06
60	F5–F7	RFK06H
100		RFK10
200	F5–F6	HRK1020
400–600	E4–E5	HRK4060

78. CSA approved for Type 1, 3R, 4 / 4X and 3R / 12 applications.
79. VH series. *For 200 A, check availability.
80. For series not shown in the table, refer to the switch wiring diagram.
81. Class R Fuse Kits for Fiberglass Reinforced Polyester enclosures and Krydon enclosures, see Fiberglass Reinforced Polyester Enclosures Type 4X 3 Pole 600 Vac, 600 Vdc, page 23 and Krydon Enclosures–Type 4X 3 Pole 600 Vac, 600 Vdc, page 24 respectively.
82. H361-2, H361-2A, H361-2AWK and H361-2RB use RFK06.

Line Side Barrier Kits

Barrier kits protect against inadvertent contact with line side, uninsulated, ungrounded, or service terminal live parts.

Table 34 - Line Side Barrier Kits for Heavy Duty Safety Switch

Amperes	Voltage	Blades/Fuses	Catalog
30	600	2 or 3	LSBD602
30 / 60	240	2 or 3	LSBD202
60	600	2 or 3	LSBC02
100	240 / 600	2 or 3	LSBC02
200	240	3	LSBE203
		3	
	600	3	LSBE603
400 / 600	240	2 or 3	LSBG203
	600	2 or 3	LSBG602
800 / 1200	240	2	LSBF202
		3	LSBF203
	600	2 or 3	LSBF602

Internal Barrier Kits

SS06

Internal barrier kits provide an additional barrier that helps prevent accidental contact with live parts. Field-installed transparent barriers do not restrict visual inspection of the switch. Barrier provides IEC529 IP2X protection when door of enclosed disconnect switch is open. Designed with convenient door for accessing fuses for replacement without removing barrier and allows use of test probes.

Table 35 - Internal Barrier Kits for Heavy Duty

Amperes	Voltage	Blades	Barrier for	Cat. No.
30	240 / 600	2 or 3	Line and Load	SS03 [83]
60	240			SS03 [83]
60	600			SS06 [83]
100	240 / 600			SS10 [83]
200				SS20 [83]
400 / 600			Line Side	SS4060LI
			Load Side	SS4060LO [84]
800 / 1200			Line Side	SS80120LI
			Load Side	SS80120LO [84]

83. Can only be applied to F series.
84. Must purchase line side.

Solid Neutral Assembly Kits

Table 36 - Solid Neutral Assembly Kits [85] [86] [87] [88]

Amperes	Series Number	Standard Neutral Kit Cat. No.	Terminal Data AWG / kcmil	Optional Copper Only Neutral Kit Cat. No.	Terminal Data AWG / kcmil
30	F5–F6	CSN03	(2) 14-3 Al / Cu plus (1) 14-3 Al / Cu Svc Ground	CSN03C	(2) 14-6 Cu plus (1) 14-6 Cu Svc Ground
60	F5–F6 (240 V)	CSN03	(2) 14-3 Al / Cu plus (1) 14-3 Al / Cu Svc Ground	CSN03C	(2) 14-6 Cu plus (1) 14-6 Cu Svc Ground
	F5–F6 (600 V)	CSN0610	(2) 14-1/0 Al / Cu plus (2) 14-6 Al / Cu Svc Ground	CSN0610C	(2) 14-1/0 Cu plus (2) 14-6 Cu Svc Ground
100	F5–F6	CSN0610	(2) 14-1/0 Al / Cu plus (2) 14-6 Al / Cu Svc Ground	CSN0610C	(2) 14-1/0 Cu plus (2) 14-6 Cu Svc Ground
200 [89]	F5–F6	CSN20	(2) 6-250 Al / Cu plus (1) 14-10 Al / Cu Svc Ground	CSN20C	(2) 6-250 Cu plus (1) 14-1/0 Cu Svc Ground
400 and 600	E4–E5	CH600SN	(4) 1-750 Al / Cu plus (1) 4-300 Al / Cu Svc Ground	CH600SNC	(2) 1-600 Cu and (2) 4-350 Cu plus (2) 6-250 Cu Svc Ground
800	E4	H800SNE4	(6) 3/0-750 Al / Cu plus (2) 6-350 Al / Cu Svc Ground	–	–
1200	E4	H1200SNE4	(8) 3/0-750 Al / Cu plus (2) 6-350 Al / Cu Svc Ground		

Table 37 - Solid Neutral Assemblies for Type 7/9 Enclosed Molded Case Switches

Ampere Rating	Cat. No.
30	100SNA
60	
100	
200	225SNA

85. For Solid Neutral Assembly Kits for Fiberglass Reinforced Polyester enclosures see Fiberglass Reinforced Polyester Enclosures Type 4X 3 Pole 600 Vac, 600 Vdc, page 23.
86. Neutrals cannot be installed in 4– or 6–pole switches or receptacle switches.
87. For 30 A switches in 60 A enclosures use CSN0610 or CSN0610C.
88. For service entrance applications factory installed and bonded neutral is required.
89. For 200% neutral, order (2) neutral kits and (1) SN20N1 neutral jumper kit.

Fuse Puller Kits

Fuse Puller Kits

Fuse Puller Kits are standard equipment on the following 30–100 A switches: Type 12, Type 4/4X/5 stainless steel, Type 4X fiberglass reinforced polyester and Krydon.

Fuse Puller Kit available for field installation on Type 1 and Type 3R, 30–100 A switches. One Fuse Puller Kit required for a three-pole fusible 240 V or 600 V heavy duty switch. Fuse Puller Kits can be field installed on switches manufactured since February 1980.

Table 38 - Fuse Puller Kits for Heavy Duty Safety Switches

Amperes	Series Number	Fuse Puller Kit Cat. No.
30	F5–F7	FPK03[90]
60	F5–F7 (600 V)	FPK0610
	F5 (240 V)	FPK03
100	F5–F7	FPK0610

90. 30 A 4–pole, H361-2 and H361-2RB Series F5, H361WA and H361WC Series F6 use FPK0610.

Equipment Grounding Kits

Safety Switches with “GL” suffix come complete with factory installed Grounding Kits. Additional Grounding Kits are available for field or factory installation in 30–1200 A, 240 and 600 Volt Heavy Duty Switches.

Table 39 - Equipment Grounding Kits and Terminal Data [91] [92]

Amperes	Series Number	Standard Cat. No.	Terminal Data AWG/kcmil	Optional Copper Only Cat. No.	Terminal Data AWG/kcmil
30	F5–F6	GTK03	(2) 14-4 Cu or (2) 12-4 Al or (4) 14-12 Cu or (4) 12-10 Al	GTK03C [93] [94]	(2) 14-6 Cu
60	F5–F6 (600 V)	GTK0610	(2) 14-1/0 Cu or (2) 12-1/0 Al and (2) 14-6 Cu or (2) 12-6 Al	GTK0610C	(2) 14-1/0 Cu and (2) 14-6 Cu
60	F5–F6 (240 V)	GTK03	(2) 14-4 Cu or (2) 12-4 Al or (4) 14-12 Cu or (4) 12-10 Al	GTK03C	(2) 14-6 Cu
100	F5–F6	GTK0610	(2) 14-1/0 Cu or (2) 12-1/0 Al or and (2) 14-6 Cu or (2) 12-6 Al	GTK0610C	(2) 14-1/0 Cu and (2) 14-6 Cu
200	F5–F6	PKOGTA2	(2) 10-2/0 Cu or (2) 6-2/0 Al	PKOGTC2	(2) 14-4 Cu
400 and 600	E4–E5	PKOGTA2 [95]	(2) 10-2/0 Cu or (2) 6-2/0 Al	PKOGTC3	(4) 14-1/0 Cu
800	E4	PKOGTA7	(4) 4-350 Al / Cu	–	–
1200	E4	PKOGTA8	(8) 4-350 Al / Cu	–	–

Touch-Up Paint for Safety Switches

Table 40 - Touch-Up Paint for Safety Switches [96]

Description	Cat. No.
12 oz. Aerosol Paint Can, Square D ANSI-49 Gray Touch-Up Paint	PK49SP

91. For series not shown in chart refer to the switch wiring diagram.
92. Equipment Ground Kits (Al/Cu) are factory installed standard in 30-200 A Series F Type 4/4X/5 (stainless steel). Equipment Ground Kits are standard factory installed on receptacle switches and Series F 30-200 A, 4– and 6–pole switches.
93. Optional copper equipment grounding kit for the 4 and 6 pole 30 A F Series: H461DS, H461AWK, HU461DS, HU661DS and HU661AWK accepts GTK03C and HU461AWK accepts GTK0610C.
94. For equipment grounding kits for the 30 A switches inside 60 A enclosures please refer to the switch wiring diagram.
95. Two required if equipment grounding conductors are run in parallel.
96. Standard package quantity is six cans.

Cover Viewing Window–Heavy Duty Single Throw Switches

Cover viewing window is positioned over the blades to allow visual verification of “ON” / “OFF” status.

- Available as standard on Heavy Duty Single Throw Safety Switches 30, 60, 100, and 200 A , Type 1, Type 3R, Type 12, and Type 4X Stainless Steel Enclosures. * Except 4- and 6-pole switches.
- Units can be obtained without window on Type 12 and Type 4X stainless steel devices–shipped from factory.
- Available as factory modification on Type 12 and Type 4X enclosures–400, 600, 800, and 1200 A.
- Viewing windows are not available on Type 7/9, 4X Fiberglass-reinforced Polyester Enclosures.

Lock OFF / Lock ON

Optional Lock-OFF Guard Kit Installed

Lock off provisions are standard on Heavy Duty Switches.

Lock-on is also available as a factory modification on Type 12 and 304 Stainless Steel Type 4X enclosures. Obtain by selecting on product configurator.

Modifying a switch in the field may be done to the 30—200 A, Series F switches, all NEMA enclosure types, and to 400—1200 A switches, Series E, all NEMA enclosure types. The lockplate on the side of the switch next to the handle has a very small indentation (a center punch) towards the top of the lockplate, which may be drilled out to accommodate a padlock. Note that drilling a hole in the steel of our painted devices will expose unpainted steel, which should be touched up with paint. Gray paint in a spray paint can be ordered, catalog number PK49SP.

Lock Off Guard Kits

For field installed kits, the lock off guard works by covering the lockout tagout openings whenever the switch is in the “ON” position. This protects against a padlock from being inadvertently inserted into the switch lockplate. Available ONLY for use on Type 1, Type 3R, Type 12, Heavy Duty Safety Switches. The lock off guard is designed to help prevent accidents caused by an untrained or distracted employee, who could inadvertently attempt to apply a lockout device to a switch without turning the switch to “OFF”. Lock-off guard kits can be installed on Square D 30 A to 200 A F series Type 1, 3R, and 12 switches in less than 30 seconds. The bright red colour reminds users of the seriousness of lockout/tag-out procedures.

Table 41 - Lock-Off Guard Kits for Heavy Duty Safety Switches

Switch Rating	Cat. No.
30 A	LOGK1
60 A 240 V	
60 A 600 V	LOGK2
100 and 200 A	

Key Interlock Systems

Key Interlock System

Interlocks help protect against unauthorized operation Factory installed only on heavy duty safety switches from 30 A to 1200 A, Type 12 and 304 stainless steel Type 4X. Not available on hazardous location devices (Type 7/9) or fiberglass reinforced polyester (Type 4X).

The key interlock system is a simple and easy method of applying individual key interlock units and assemblies to the above equipment so as to require operation in a predetermined sequence.

Quoting: Contact Schneider Electric for catalog number, availability, and pricing prior to quoting a job. Detailed information is required before an order can be processed.

Ordering: Order cannot be released for production until the following information has been provided:

- End User—Company name, address.
- Function of each lock (e.g., switch to be locked open with key removed, key held when switch is closed).
- Existing Equipment—if switch is to be interlocked with equipment already on site, provide brand of existing lock and key number.
- Other New Equipment—if switch is to be interlocked with new equipment not yet installed at the site, then provide contact person and phone number so that locks may be coordinated.
- Additional information may be required upon order entry.

Use these suffixes on switch catalog numbers:

- KI = 1 lock per switch
- KI2 = 1 lock with 2 cylinders (2 keys) per switch
- KIKI = 2 separate locks per switch

Voltage Monitors for Safety Switches

Safety Switch with Voltage Monitoring

Voltage monitors installed on safety switches indicate when voltage is present, helping to prevent hazards during maintenance work. Voltage monitors can be combined with other safety features such as Key Interlock, Viewing Windows or Lock-ON provisions.

- CSA Certified
- Available on 30–1200 A Type 12 [97] and 4X–304 stainless-steel heavy-duty safety switches
- Obtain by selecting on product configurator [98]
- Not available on NEMA Type 7 and 9 and Type 4X Fiberglass and Krydon switches

NOTE: When voltage monitoring is required for 30 and 60 A application, a 100 A enclosure is used.

Description	
Line side monitor	SI
Load side monitor	LI
Line and load side monitor	LI2

97. Check availability via product selector - currently LI2 is not available at 30, 60, and 100 A - Type-12
98. For 30-60 A 240 Vac application, order 600 Vac heavy duty safety switch.

Load Side Double Lug Kits

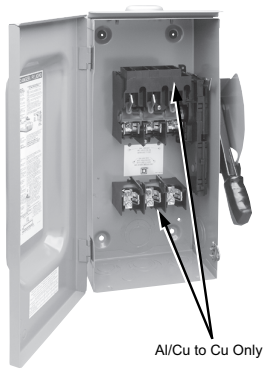
AL20DTF

200 A heavy duty F-Series switches are supplied standard with lugs suitable for one wire per phase. For two wires per phase and neutral, order the Double Lug Kit. Not included on switch wiring diagram as an accessory, available for Load Connections only. Lug can only be field installed on load side terminals. [99]

Table 42 - Double Lug Kits

Amperes	Cat. No.[100]	Lug Wire Range per Phase and Neutral AWG / kcmil
200	AL20DTF	(2) 6–300 Cu / Al

Copper Lug Kits



Lug kits that accept only copper wire are available for field installation:

- Heavy Duty safety switches are supplied standard with Al lugs, which accept both Cu and Al wires.
- Not available for use on Type 4X Fiberglass, Krydon or Type 7 and 9 switches.
- For field installation, order copper lug kits. See Copper Lug Kits, page 37.

Table 43 - Copper Lug Kits [101]

Amperes	Lug Kit Cat. No.	Lug Wire Range AWG/kcmil
30–60	CL0306F	(1) 14-8 Cu solid or 14-4 Cu stranded
100	CL10F	(1) 14-8 Cu solid or 14-1/0 Cu stranded
200	CL20F	(1) 6-250 Cu
400	CL40F	(1) 1-600 Cu plus (1) 6-250 Cu
600	CL60F	(1) 4-350 Cu
800	–	–
1200		

99. Double lug kit is a cURus recognized component accessory kit.
100. Kit contains three lugs. Order two kits for line and load lugs.
101. One kit includes line/load lugs for a 3-pole switch. CL0306F, CL10F and CL20F includes six lugs. CL40F and CL60F includes twelve lugs.

Compression Lug Kits–800 and 1200 A Safety Switches

H12LKE2

- Compression Lug Kits available for field installation
- Compression Lug Kits contain VCEL07512H1 Versa-Crimp™ compression lugs
- Order one Compression Lug Kit per switching pole and/or neutral (see Compression Lug Kits, page 38)
- Example: Three-pole three-wire requires three kits; three-pole four-wire requires four kits.

Table 44 - Compression Lug Kits

Amperes	Lug Kit Cat. No.	Conductors per phase	Lug Wire Range kcmil
800	H8LKE2	(3) Line and (3) Load	500-750 kcmil (Al) or 500 kcmil (CU)
1200	H12LKE2	(4) Line and (4) Load	500-750 kcmil (Al) or 500 kcmil (CU)

Table 45 - Terminal Lug Data [102]

Rating (A)	Wires Per Phase and Neutral	Lug Wire Range AWG / kcmil
30	1 or 2	12–2 (Al) or 14–2 (Cu)
60 [103]	1	12–2 (Al) or 14–2 (Cu)
100 [104]	1	12–1/0 (Al) or 14–1/0 (Cu)
200 [105]	1	6–250 (Al / Cu)
400 [106]	1 or 2	1/0–750 (Al / Cu) or 1/0–300 (Al / Cu)
600	2	3/0–500 (Al / Cu)
800	3	3/0–750 (Al / Cu)
1200	4	3/0–750 (Al / Cu)

Conduit Provisions

Table 46 - Conduit Provisions [107]

Amperes	Top and Bottom Endwall Type 4X Fiberglass Reinforced Polyester and Krydon
30	3/4 in.
60	1-1/4 in.
100	2 in.
200	2-1/2 in.

102. 30–100 A switches suitable for 60°C or 75°C conductors. 200–1200 A switches suitable for 75°C conductors.
103. H60XBD and H60XBDAA — use 75°C copper wire only. #6 AWG copper wire required for 60 A rating.
104. H100XBD and H100XBDAA–use 75°C copper wire only. #3 AWG copper wire required for 100 A rating.
105. H225XJG and H225XJGAA–use 75°C copper wire only. Lug wire range is #3 AWG–350 kcmil. Not UL Listed due to inadequate wire bending space (5” on ON end, 6” on OFF end).
106. Maximum wire bending space allows for (1) 600 kcmil or (2) 300 kcmil Al/Cu on Type 4/4X/5 stainless steel and Type 12 switches.
107. Hubs and hub drilling templates are provided for field-installation.

Dimensions for Heavy Duty Safety Switches

VisiPacT Type 1 and 3R

See Terminal Lug Data, page 13 for terminal lug data for the series switches listed in the dimension the Approximate Dimensions, page 39 table.

Table 47 - Approximate Dimensions

Cat. No.	Series	H		W		D		W/H		Cat. No.	Series	H		W		D		W/H	
		in.	mm	in.	mm	in.	mm	in.	mm			in.	mm	in.	mm	in.	mm	in.	mm
VH221BGL	F8	14.57	370	6.36	162	5.11	130	7.48	190	VH221BRBGL	F8	14.84	377	6.63	168	5.05	128	7.6	193
VH321BGL	F8	14.57	370	6.36	162	5.11	130	7.48	190	VH321BRBGL	F8	14.84	377	6.63	168	5.05	128	7.6	193
VH361GL	F8	14.57	370	6.36	162	5.11	130	7.48	190	VH361RBGL	F8	14.84	377	6.63	168	5.05	128	7.6	193
VH361BGL	F8	14.57	370	6.36	162	5.11	130	7.48	190	VH361BRBGL	F8	14.84	377	6.63	168	5.05	128	7.6	193
VHU361GL	F8	14.57	370	6.36	162	5.11	130	7.48	190	VHU361RBGL	F8	14.84	377	6.63	168	5.05	128	7.6	193
VH222BGL	F8	14.57	370	6.36	162	5.11	130	7.48	190	VH222BRBGL	F8	14.84	377	6.63	168	5.05	128	7.6	193
VH322BGL	F8	14.57	370	6.36	162	5.11	130	7.48	190	VH322BRBGL	F8	14.84	377	6.63	168	5.05	128	7.6	193
VH362GL	F8	18.18	462	8.91	226	7.04	179	10.26	261	VH362RBGL	F8	18.4	467	9.08	231	6.98	177	10.39	264
VH362BGL	F8	18.18	462	8.91	226	7.04	179	10.26	261	VH362BRBGL	F8	18.4	467	9.08	231	6.98	177	10.39	264
VHU362GL	F8	18.18	462	8.91	226	7.04	179	10.26	261	VHU362RBGL	F8	18.4	467	9.08	231	6.98	177	10.39	264
VH223BGL	F8	21.84	555	8.91	226	7.04	179	10.28	261	VH223BRBGL	F8	22.1	561	9.08	231	7.02	178	10.42	265
VH323BGL	F8	21.84	555	8.91	226	7.04	179	10.28	261	VH323BRBGL	F8	22.1	561	9.08	231	7.02	178	10.42	265
VH363GL	F8	21.84	555	8.91	226	7.04	179	10.28	261	VH363RBGL	F8	22.1	561	9.08	231	7.02	178	10.42	265
VH363BGL	F8	21.84	555	8.91	226	7.04	179	10.28	261	VH363BRBGL	F8	22.1	561	9.08	231	7.02	178	10.42	265
VHU363GL	F8	21.84	555	8.91	226	7.04	179	10.28	261	VHU363RBGL	F8	22.1	561	9.08	231	7.02	178	10.42	265
VH224BGL	F8	28	711	16.61	422	8.51	216	18.55	471	VH224BRGL	F8	28.94	735	17.02	432	8.51	216	18.36	466
VH324BGL	F8	28	711	16.61	422	8.51	216	18.55	471	VH324BRGL	F8	28.94	735	17.02	432	8.51	216	18.36	466
VH364GL	F8	28	711	16.61	422	8.51	216	18.55	471	VH364RGL	F8	28.94	735	17.02	432	8.51	216	18.36	466
VH364BGL	F8	28	711	16.61	422	8.51	216	18.55	471	VH364BRGL	F8	28.94	735	17.02	432	8.51	216	18.36	466
VHU364GL	F8	28	711	16.61	422	8.51	216	18.55	471	VHU364RGL	F8	28.94	735	17.02	432	8.51	216	18.36	466

VisiPacT Type 4X and 12

Table 48 - Approximate Dimensions

Cat. No.	Series	H		W		D		W / H		Cat. No.	Series	H		W		D		W / H	
		in.	mm	in.	mm	in.	mm	in.	mm			in.	mm	in.	mm	in.	mm	in.	mm
VH221DSGL	F8	14.93	379	7.91	201	5.4	137	8.4	213	VH364SSGL	F8	28.9	734	17.47	444	8.94	227	19.27	489
VH221BDSGL	F8	14.93	379	7.91	201	5.4	137	8.4	213	VHU364SSGL	F8	28.9	734	17.47	444	8.94	227	19.27	489
VH321DSGL	F8	14.93	379	7.91	201	5.4	137	8.4	213	VH221AWKGL	F8	14.57	370	6.48	165	5.25	133	7.67	195
VH321BDSGL	F8	14.93	379	7.91	201	5.4	137	8.4	213	VH221BAWKGL	F8	14.57	370	6.48	165	5.25	133	7.67	195
VH361DSGL	F8	14.93	379	7.91	201	5.4	137	8.4	213	VH321AWKGL	F8	14.57	370	6.48	165	5.25	133	7.67	195
VH361BDSGL	F8	14.93	379	7.91	201	5.4	137	8.4	213	VH321BAWKGL	F8	14.57	370	6.48	165	5.25	133	7.67	195
VHU361DSGL	F8	14.93	379	7.91	201	5.4	137	8.4	213	VH361AWKGL	F8	14.57	370	6.48	165	5.25	133	7.67	195
VH361SSGL	F8	14.93	379	7.91	201	5.4	137	8.4	213	VH361BAWKGL	F8	14.57	370	6.48	165	5.25	133	7.67	195
VHU361SSGL	F8	14.93	379	7.91	201	5.4	137	8.4	213	VHU361AWKGL	F8	14.57	370	6.48	165	5.25	133	7.67	195
VH222DSGL	F8	14.93	379	7.91	201	5.4	137	8.4	213	VHU361BAWKGL	F8	14.57	370	6.48	165	5.25	133	7.67	195
VH222BDSGL	F8	14.93	379	7.91	201	5.4	137	8.4	213	VH222AWKGL	F8	14.57	370	6.48	165	5.25	133	7.67	195
VH322DSGL	F8	14.93	379	7.91	201	5.4	137	8.4	213	VH222BAWKGL	F8	14.57	370	6.48	165	5.25	133	7.67	195
VH322BDSGL	F8	14.93	379	7.91	201	5.4	137	8.4	213	VH322AWKGL	F8	14.57	370	6.48	165	5.25	133	7.67	195
VH362DSGL	F8	16.93	430	8.9	226	7.26	184	10.71	272	VH322BAWKGL	F8	14.57	370	6.48	165	5.25	133	7.67	195
VH362BDSGL	F8	16.93	430	8.9	226	7.26	184	10.71	272	VH362AWKGL	F8	16.53	420	8.91	226	7.17	182	10.45	265
VHU362DSGL	F8	16.93	430	8.9	226	7.26	184	10.71	272	VH362BAWKGL	F8	16.53	420	8.91	226	7.17	182	10.45	265
VH362SSGL	F8	16.93	430	8.9	226	7.26	184	10.71	272	VHU362AWKGL	F8	16.53	420	8.91	226	7.17	182	10.45	265
VHU362SSGL	F8	16.93	430	8.9	226	7.26	184	10.71	272	VHU362BAWKGL	F8	16.53	420	8.91	226	7.17	182	10.45	265
VH223DSGL	F8	20.73	527	9.34	237	7.2	183	11.15	283	VH223AWKGL	F8	20.49	520	8.92	227	7.15	182	10.44	265
VH223BDSGL	F8	20.73	527	9.34	237	7.2	183	11.15	283	VH223BAWKGL	F8	20.49	520	8.92	227	7.15	182	10.44	265
VH323DSGL	F8	20.73	527	9.34	237	7.2	183	11.15	283	VH323AWKGL	F8	20.49	520	8.92	227	7.15	182	10.44	265
VH323BDSGL	F8	20.73	527	9.34	237	7.2	183	11.15	283	VH323BAWKGL	F8	20.49	520	8.92	227	7.15	182	10.44	265
VH363DSGL	F8	20.73	527	9.34	237	7.2	183	11.15	283	VH363AWKGL	F8	20.49	520	8.92	227	7.15	182	10.44	265
VH363BDSGL	F8	20.73	527	9.34	237	7.2	183	11.15	283	VH363BAWKGL	F8	20.49	520	8.92	227	7.15	182	10.44	265
VHU363DSGL	F8	20.73	527	9.34	237	7.2	183	11.15	283	VHU363AWKGL	F8	20.49	520	8.92	227	7.15	182	10.44	265
VH363SSGL	F8	20.73	527	9.34	237	7.2	183	11.15	283	VHU363BAWKGL	F8	20.49	520	8.92	227	7.15	182	10.44	265
VHU363SSGL	F8	20.73	527	9.34	237	7.2	183	11.15	283	VH224AWKGL	F8	28.93	735	17.01	432	9.02	229	18.58	472
VH224DSGL	F8	28.9	734	17.47	444	8.94	227	19.27	489	VH224BAWKGL	F8	28.93	735	17.01	432	9.02	229	18.58	472
VH224BDSGL	F8	28.9	734	17.47	444	8.94	227	19.27	489	VH324AWKGL	F8	28.93	735	17.01	432	9.02	229	18.58	472
VH324DSGL	F8	28.9	734	17.47	444	8.94	227	19.27	489	VH324BAWKGL	F8	28.93	735	17.01	432	9.02	229	18.58	472
VH324BDSGL	F8	28.9	734	17.47	444	8.94	227	19.27	489	VH364AWKGL	F8	28.93	735	17.01	432	9.02	229	18.58	472
VH364DSGL	F8	28.9	734	17.47	444	8.94	227	19.27	489	VH364BAWKGL	F8	28.93	735	17.01	432	9.02	229	18.58	472
VH364BDSGL	F8	28.9	734	17.47	444	8.94	227	19.27	489	VHU364AWKGL	F8	28.93	735	17.01	432	9.02	229	18.58	472
VHU364DSGL	F8	28.9	734	17.47	444	8.94	227	19.27	489	VHU364BAWKGL	F8	28.93	735	17.01	432	9.02	229	18.58	472

Type 1 and 3R

Table 49 - Approximate Dimensions

Cat. No.	Series	H		W		D		W/H		Cat. No.	Series	H		W		D		W/H	
		in.	mm	in.	mm	in.	mm	in.	mm			in.	mm	in.	mm	in.	mm	in.	mm
H225	E4	50.25	1276	27.63	702	10.13	257	27.63	702	H328NR	E4	69.13	1756	36.62	930	17.75	451	36.62	930
CH225N	E4	50.25	1276	27.63	702	10.13	257	27.63	702	CH365	E4	50.25	1276	27.63	702	10.13	257	27.63	702
CH225NR	E5	50.31	1278	27.76	705	9.53	242	27.88	708	H365N	E4	50.25	1276	27.63	702	10.13	257	27.63	702
H225R	E5	50.31	1278	27.76	705	9.53	242	27.88	708	CH365R	E5	50.31	1278	27.76	705	9.53	242	27.88	708
H226	E4	50.25	1276	27.63	702	10.13	257	27.63	702	H365NR	E5	50.31	1278	27.76	705	9.53	242	27.88	708
CH226N	E4	50.25	1276	27.63	702	10.13	257	27.63	702	CH366	E4	50.25	1276	27.63	702	10.13	257	27.63	702
CH226NR	E5	50.31	1278	27.76	705	9.53	242	27.88	708	H366N	E4	50.25	1276	27.63	702	10.13	257	27.63	702
H226R	E5	50.31	1278	27.76	705	9.53	242	27.88	708	H366NR	E5	50.31	1278	27.76	705	9.53	242	27.88	708
H227	E4	69.13	1756	36.62	930	17.75	451	36.62	930	CH366R	E5	50.31	1278	27.76	705	9.53	242	27.88	708
H227N	E4	69.13	1756	36.62	930	17.75	451	36.62	930	H367	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H227NR	E4	69.13	1756	36.62	930	17.75	451	36.62	930	CH367N	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H227R	E4	69.13	1756	36.62	930	17.75	451	36.62	930	CH367NR	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H228	E4	69.13	1756	36.62	930	17.75	451	36.62	930	H367R	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H228N	E4	69.13	1756	36.62	930	17.75	451	36.62	930	H368	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H228NR	E4	69.13	1756	36.62	930	17.75	451	36.62	930	H368N	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H228R	E4	69.13	1756	36.62	930	17.75	451	36.62	930	H368NR	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H265	E4	50.25	1276	27.63	702	10.13	257	27.63	702	H368R	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H265R	E5	50.31	1278	27.76	705	9.53	242	27.88	708	HU265	E4	50.25	1276	27.63	702	10.13	257	27.63	702
H266	E4	50.25	1276	27.63	702	10.13	257	27.63	702	HU265R	E5	50.31	1278	27.76	705	9.53	242	27.88	708
H266R	E5	50.31	1278	27.76	705	9.53	242	27.88	708	HU266	E4	50.25	1276	27.63	702	10.13	257	27.63	702
H267	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU266R	E5	50.31	1278	27.76	705	9.53	242	27.88	708
H267R	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU267	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H268	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU267R	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H268R	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU268	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H325	E4	50.25	1276	27.88	708	10.13	257	27.88	708	HU268R	E4	69.13	1756	36.62	930	17.75	451	36.62	930
CH325N	E4	50.25	1276	27.88	708	10.13	257	27.88	708	CHU365	E4	50.25	1276	27.63	702	10.13	257	27.63	702
H325R	E5	50.31	1278	27.76	705	9.53	242	27.88	708	CHU365R	E5	50.31	1278	27.76	705	9.53	242	27.88	708
CH325NR	E5	50.31	1278	27.76	705	9.53	242	27.88	708	CHU366	E4	50.25	1276	27.63	702	10.13	257	27.63	702
H326	E4	50.25	1276	27.63	702	10.13	257	27.63	702	CHU366R	E5	50.31	1278	27.76	705	9.53	242	27.88	708
CH326N	E4	50.25	1276	27.63	702	10.13	257	27.63	702	HU367	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H326R	E5	50.31	1278	27.76	705	9.53	242	27.88	708	HU367R	E4	69.13	1756	36.62	930	17.75	451	36.62	930
CH326NR	E5	50.31	1278	27.76	705	9.53	242	27.88	708	HU368	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H327	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU368R	E4	69.13	1756	36.62	930	17.75	451	36.62	930
CH327N	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU461	F5	20.5	521	14.75	375	6.85	174	16.13	410
H327R	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU462	F5	20.5	521	14.75	375	6.85	174	16.13	410
H327NR	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU463	F5	20.5	521	14.75	375	6.85	174	16.13	410
H328	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU464	F5	29	737	23.25	591	8.75	222	24.88	632
H328N	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU465	E4	50.25	1276	33.88	861	10.13	257	33.88	861
H328R	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU466	E4	50.25	1276	33.88	861	10.13	257	33.88	861

Type 4, 4X, 5, 12, NEMA Type 7 and 9

See Terminal Lug Data, page 13, for terminal lug data for the series switches listed in the following table.

Table 50 - Approximate Dimensions

Cat. No.	Series	H		W		D		W/H		Cat. No.	Series	H		W		D		W/H	
		in.	mm	in.	mm	in.	mm	in.	mm			in.	mm	in.	mm	in.	mm	in.	mm
CH225NAWK	E4	46.25	1175	26.25	667	10.13	259	26.25	667	H461AWK	F6	20.5	521	14.75	375	6.8	173	16.13	410
H225NAWK	E4	46.25	1175	26.25	667	10.13	259	26.25	667	H461DS	F6	20.82	529	15.08	383	6.97	177	16.85	428
H225NDS	E4	46.25	1175	26.25	667	10.13	259	26.25	667	H462AWK	F6	20.5	521	14.75	375	6.8	173	16.13	410
H225XJG	A1	22.56	573	10.88	276	7.75	197	10.88	276	H462DS	F6	20.82	529	15.08	383	6.97	177	16.85	428
H226AWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667	H463AWK	F6	20.5	521	14.75	375	6.8	173	16.13	410
H226DS	E5	46.25	1175	26.25	667	10.13	259	26.25	667	H463DS	F6	20.82	529	15.08	383	6.97	177	16.85	428
H226NDS	E5	46.25	1175	26.25	667	10.13	259	26.25	667	H464AWK	F6	29	737	23.25	591	8.75	222	24.88	632
CH226NAWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667	H464DS	F6	29	737	23.75	603	8.88	226	25.25	641
H227AWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930	H465AWK	E5	46.25	1175	32.5	826	10.13	259	32.5	826
H227NAWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930	H663AWK	F6	20.5	521	14.75	375	6.8	173	16.13	410
H228AWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930	H663DS	F6	20.82	529	15.08	383	6.97	177	16.85	428
H228NAWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930	H664AWK	F6	29	737	23.25	591	8.75	222	24.88	632
H265AWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667	H664DS	F6	29	737	23.75	603	8.88	226	25.25	641
H265DS	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU265AWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667
H266AWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU265DS	E5	46.25	1175	26.25	667	10.13	259	26.25	667
H266A	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU266AWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667
H266DS	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU266DS	E5	46.25	1175	26.25	667	10.13	259	26.25	667
H267AWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU267AWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H267NAWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU268AWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H268AWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU361DF	F1	16.5	419	11	279	8.8	224	11	279
H268NAWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU361DX	F1	19.4	493	11.4	290	8.6	218	11.4	290
H325AWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU362DF	F1	16.5	419	11	279	8.8	224	11	279
H325DS	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU362DX	F1	19.4	493	11.4	290	8.6	218	11.4	290
CH325NAWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU363DF	F1	24.8	630	13.7	348	12	305	13.7	348
H325NDS	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU363DX	F1	25.25	641	11.4	290	8.6	218	11.4	290
H326AWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU364DF	E1	31.3	795	26.3	668	11.8	300	26.3	668
H327AWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930	CHU365AWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667
H327NAWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930	CHU365DS	E5	46.25	1175	26.25	667	10.13	259	26.25	667
H328AWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU365SS	E5	46.25	1175	26.25	667	10.13	259	26.25	667
H328NAWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930	CHU366AWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667
H361DF	F1	16.5	419	11	279	8.8	224	11	279	CHU366DS	E5	46.25	1175	26.25	667	10.13	259	26.25	667
H361DX	F1	19.4	493	11.4	290	8.6	218	11.4	290	HU366SS	E5	46.25	1175	26.25	667	10.13	259	26.25	667
H362DF	F1	16.5	419	11	279	8.8	224	11	279	HU367AWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H362DX	F1	19.4	493	11.4	290	8.6	218	11.4	290	HU368AWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H363DF	F1	24.8	630	13.7	348	12	305	13.7	348	HU461AWK	F6	20.5	521	14.75	375	6.8	173	16.13	411
H363DX	F1	25.25	641	11.4	290	8.6	218	11.4	290	HU461DS	F6	20.82	529	15.08	383	6.97	177	16.85	428
H365SS	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU462AWK	F6	21.25	540	16.13	410	6.8	173	16.13	410
H364DF	E1	31.3	795	26.3	668	11.8	300	26.3	668	HU462DS	F6	20.82	529	15.08	383	6.97	177	16.85	428
CH365AWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU463AWK	F6	20.5	521	14.75	375	6.8	173	16.13	410

Table 50 - Approximate Dimensions (Continued)

Cat. No.	Series	H		W		D		W/H		Cat. No.	Series	H		W		D		W/H	
		in.	mm	in.	mm	in.	mm	in.	mm			in.	mm	in.	mm	in.	mm	in.	mm
H365DS	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU463DS	F6	20.82	529	15.08	383	6.97	177	16.85	428
H365NAWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU464AWK	F6	29	737	23.25	591	8.75	222	24.88	632
H365NDS	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU464DS	F6	29	737	23.75	603	8.88	226	25.25	641
CH366AWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667	CHU465AWK	E5	46.25	1175	32.5	826	10.13	259	32.5	826
H366DS	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU661AWK	F6	20.5	521	14.75	375	6.8	173	16.13	410
H366NAWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU661DS	F6	20.82	529	15.08	383	6.97	177	16.85	428
H366NDS	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU662AWK	F6	20.5	521	14.75	375	6.8	173	16.13	410
H366SS	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU662DS	F6	20.82	529	15.08	383	6.97	177	16.85	428
H367AWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU663AWK	F6	20.5	521	14.75	375	6.8	173	16.13	410
H367NAWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU663DS	F6	20.82	529	15.08	383	6.97	177	16.85	428
H368AWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU664AWK	F6	29	737	23.25	591	8.75	222	24.88	632
H368NAWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU664DS	F6	29	737	23.75	603	8.88	226	25.25	641

Double-Throw Safety Switches

30-100 A Types DT, DTU (Series F)

30–100 A DT, DTU (Series F) Type 1

- Fusible (DT) and non-fusible (DTU) switches available
- Manual transfer of a load between two power sources (or one power source between two loads on series A, F DT & DTU only)
- Standards: UL 98, Type KS1, CSA
- Modular design–switch handle, lock-plate, switch mechanism; line and load bases are field replaceable.
- Load make/break rated
- Horsepower rated
- Dual cover interlock
- May be padlocked ON (I) or OFF (O)
- Lock-off accepts up to three padlocks
- Padlock provisions in the center “OFF” position.
- Padlock provisions in the “ON” positions
- Side-opening door
- Quick make / quick break mechanism
- Meets NEMA requirements as heavy duty switch
- Field-installed electrical interlock kits
- Field-installed neutral assembly kits (Two–pole and three–pole switches)
- Supplied as standard for switching one load between two power sources, and may be field-converted to switch one power source between two loads.

30 (Series T4), 200–600 A Types 82,000 and 200 A DTU (Series E, A)

82,000 Line Type 1

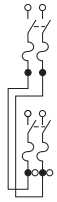
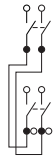
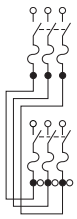
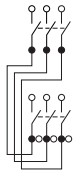
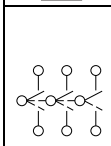
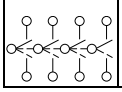
- Non-fusible
- Designed for manual transfer of one load between two power sources
- 82,000 and DTU double throw switches are continuous duty rated for their nameplate ampere rating.
- The 82,000 and DTU (Series E, A) switches are load make/break rated
- Horsepower rated only as footnoted.

Field-Installable Accessories

- Neutral
- Interlock
- Grounding Terminals

Double–Throw Fusible and Non-Fusible 240 Vac

Table 51 - Double Throw–Fusible and Non-Fusible 240 Vac, Two-Pole and Three-Pole and Four-Pole

System	Amperes	Series	Type 1	Type 3R	Type 12	Horsepower Ratings[108 109]					
						240 Vac				250 Vdc[110]	
						Std.		Max		Std.	Max.
						1Ø	3Ø	1Ø	3Ø		
Fusible Two–Pole, 240 Vac–250 Vdc											
	100	F	DT223	DT223RB	–	7-1/2	15[111]	15	30[111]	–	20
Non-Fusible Two–Pole, 240 Vac											
	30	T4	C92251[112 113]	–	–	–	–	–	–	–	–
	200	E	–	DTU224NRB[112 114]	–	15	–	–	–	–	–
	400	A	DTU225[112]	DTU225R[112]	–	–	–	–	–	50	–
	60	F	DTU222	–	–	–	–	10	15	–	10
	100		DTU223	DTU223RB	–	–	–	15	–	–	20
Fusible Three–Pole, 240 Vac–250 Vdc											
	30	F	–	DT321RB	–	1.5[115]	3[111]	3[115]	7-1/2[111]	–	5
	60		DT322	DT322RB	–	3[115]	7-1/2[111]	10[115]	15[111]	–	10
	100		DT323	DT323RB	–	7-1/2[115]	15[111]	15[115]	30[111]	–	20
Non-Fusible Three–Pole, 240 Vac–250 Vdc											
	30	F	DTU321	–	–	–	3	5[115]	10[111]	–	5
	60		DTU322	–	–	–	–	10[115]	15[111]	–	10
	100		DTU323	DTU323RB	–	–	–	15[115]	–	–	20
	30	T4	C92351[112 113]	–	–	–	–	–	–	–	–
	200	E	DTU324N[112 114]	DTU324NRB[112 114]	H82354[112]	–	15	–	–	–	–
	400	A	DTU325	DTU325R	–	–	125	–	–	50	–
	600		DTU326	DTU326R	–	–	125	–	–	50	–
Non-Fusible Four–Pole, 240 Vac											
	600	A	DTU426	DTU426R	–	–	125	–	–	50	–

108. The starting current of motors or more than standard horsepower may require the use of fuses with appropriate time delay characteristics.
109. Std.-Using fast acting one time fuses. Max.–Using dual element time delay fuses.
110. For switching dc, use two outside switching poles.
111. If used on corner grounded delta systems, install neutral and use outer switching pole for ungrounded conductors.
112. 240 Vac only, not Vdc rated.
113. Not available with padlock on provision.
114. Neutral included with device.
115. Use outer switching poles.

Double–Throw Fusible and Non-Fusible 600 Vac

Table 52 - Fusible Three–Pole, 600 Vac–600 Vdc

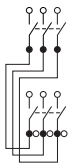
System	Amperes	Series	Type 1	Type 3R	Type 4,4X,5 304 Stainless Steel	Type 12 Gasketed	Horsepower Ratings[116] [117]							
							240 Vac		480 Vac		600 Vac		Vdc [118]	
							Std.	Max.	Std.	Max.	Std.	Max.	250	600
							3Ø	3Ø	3Ø	3Ø	3Ø	3Ø		
	30	F	DT361	DT361RB	–	–	3	7-1/2	5	15	7-1/2	20	–	–
	60	F	DT362	DT362RB	–	–	7-1/2	15	15	30	15	50	–	–
	100	F	DT363	DT363RB	–	–	15	30	25	60	30	75	20	50[119]

Table 53 - Non-Fusible Three–Pole, 600 Vac–600 Vdc

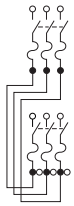
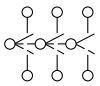
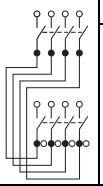
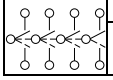
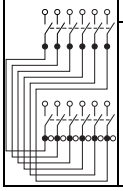
System	Amperes	Series	Type 1	Type 3R	Type 4,4X,5 304 Stainless Steel	Type 12 Gasketed	Horsepower Ratings[116] [117]						
							240 Vac		480 Vac		600 Vac		Vdc [118]
							Max.	Max.	Max.	Max.	Max.	Max.	250
							1Ø[120]	3Ø	1Ø[120]	3Ø[121]	1Ø[120]	3Ø	
	30	F	DTU361	DTU361RB	–	–	5	10	7-1/2	20	10	30	–
	60	F	DTU362	DTU362RB	DTU362DS	DTU362AWK[122]	10	20[123]	25	50[124]	30	60[125]	–
	100	F	DTU363	DTU363RB	DTU363DS	DTU363AWK[122]	20	40[126]	40	75[126]	40	75[126]	–
	200	E	C82344[127]	C82344RB[127]	–	–	–	–	–	–	–	–	–
	400	A	DTU365	DTU365R	DTU365DS	DTU365AWK	–	125[128]	–	250[128]	–	350[128]	50[128]
	600	A	DTU366[129]	DTU366R[129]	–	DTU366AWK[129]	–	125[128]	–	250[128]	–	350[128]	50[128]

Table 54 - Non-Fusible Four–Pole, 600 Vac–600 Vdc

System	Amperes	Series	Type 1	Type 3R	Type 4,4X,5 304 Stainless Steel	Type 12 Gasketed	Horsepower Ratings[116] [117]							
							240 Vac		480 Vac		600 Vac		Vdc [118]	
							Max. 2Ø	Max. 3Ø	Max. 2Ø	Max. 3Ø	Max. 2Ø	Max. 3Ø	250	600
	60	F	DTU462	Use Type 12	DTU462DS	DTU462AWK[122]	20	20	40	50	50	60	10	30
	100	F	DTU463	Use Type 12	DTU462DS	DTU463AWK[122]	30	40	50	75	50	75	20	50
	400	A	DTU465[129]	DTU465R[129]	–	–	–	125[128]	–	250[128]	–	350[128]	–	–
	600	A	DTU466[129]	DTU466R[129]	–	–	–	125[128]	–	250[128]	–	350[128]	–	–

116. The starting current of motors or more than standard horsepower may require the use of fuses with appropriate time delay characteristics.
117. Std.–Using fast acting one time fuses. Max.–Using dual element time delay fuses. (Non-fusible switches have max rating unless noted.)
118. Use outer switching poles. Ratings are maximum values.
119. 40 Std, 50 Max.
120. Use outer switching poles.
121. If used on corner grounded delta systems, install neutral and use outer switching pole for ungrounded conductors.
122. Complete rating on switch is Type 3R, 5 or 12. For 3R applications, remove drain screw from bottom endwall.
123. Maximum HP is 15 for corner grounded delta systems.
124. Maximum HP is 30 for corner grounded delta systems.
125. Use 75°C #4 Cu or #2 Al conductors only on DTU362 and DTU362RB.
126. Use 75°C #1 Cu conductors only.
127. 480 Vac, 250 Vdc maximum
128. Standard rating.
129. 250 Vdc maximum.

Table 55 - Non-Fusible Six–Pole, 600 Vac–600 Vdc

System	Amperes	Series	Type 3R	Type 4,4X,5 304 Stainless Steel	Type 12 Gasketed	Horsepower Ratings[130] [131]							
						240 Vac		480 Vac		600 Vac		Vdc [132]	
						Std. 2Ø	Max. 3Ø	Std. 2Ø	Max. 3Ø	Std. 2Ø	Max. 3Ø	250	600
	60	F	–	–	DTU662AWK[133]	20	20	40	50	50	60	10	30
	100	F	–	–	DTU663AWK[133]	30	40	50	75	50	75	20	50

Accessories and Lug Data

Electrical Interlocks

EIK1

Electrical interlocks for Double Throw Safety Switches are available in kit form for field installation. Each kit contains instructions for proper field mounting.

For Electrical Interlock Contact Ratings, see Electrical Interlock Contact Ratings , page 29.

Table 56 - Electrical Interlocks

Switch	Field-Installed Electrical Interlock Kit Cat. No. [134]
30–100 A Type DT, DTU (Series F)	EIK1, EIK2 [135]
200 A 4P–Type 82000 [136] and DTU (Series E)	– [137]
400–600 A Type DTU (Series A)	DS200EK2D

130. The starting current of motors or more than standard horsepower may require the use of fuses with appropriate time delay characteristics.
131. Std.–Using fast acting one time fuses. Max.–Using dual element time delay fuses. (Non-fusible switches have max rating unless noted.)
132. Use outer switching poles. Ratings are maximum values.
133. Complete rating on switch is Type 3R, 5 or 12. For 3R applications, remove drain screw from bottom endwall.
134. Electrical interlock kit catalog numbers with “1” suffix indicate one normally open and normally closed contact; “2” indicates two normally open and two normally closed contacts. See Electrical Interlock Contact Ratings, page 29.
135. 30–100 and 600 A Type DT, DTU (Series F) switches contain (2) separate switching mechanisms. Each mechanism will accept an electrical interlock. Some applications may therefore require (2) electrical interlocks.
136. Electrical interlock EK400DTU2 can be added to 200 A, 4-pole Type 82000 switches in the field.
137. Type 82000 and DTU switches are available with electrical interlock factory-installed only. Not UL listed. Electrical interlocks are furnished with 2 N.O./N.C. contacts and are installed in both “ON” positions. To order, add suffix EI to standard switch catalog number.

Neutral Assemblies Kits

Table 57 - Neutral Assemblies

Switch	Field-Installed Standard Neutral Kit Cat. No.	Terminal Data AWG / kcmil	Field-Installed Copper only Neutral Kit Cat. No.	Terminal Data AWG / kcmil
30–100 A Type DT, DTU (Series F) (two- and three-pole switches only)	SN0310	(3) 14-1/0 Al / Cu plus (2) 14-6 Al / Cu Svc Ground	SN0310C	(3) 14-1/0 Cu plus (2) 14-6 Cu Svc Ground
30 A (Series T4) (two- and three-pole switches only)	DT30SN	(3) 14-4 Al / Cu plus (2) 14-4 Al / Cu Svc Ground	–	–
200 A Type 82000 (Series E) (two- and three-pole switches only)	225SNA	(3) 6-300 Al / Cu (1) 6-2/0 Al or 10-2/0 Cu Svc Ground		
400 A Type DTU (Series A)	DT400NKD	(1) 1/0-720 Al / Cu or (2) 1/0-300 Al / Cu plus (2) 6-250 Al / Cu Svc Ground		
600 A Type DTU (Series A)	DT600NKD	(6) 250-500 Al / Cu plus (1) 6-250 Al / Cu Svc Ground		

Grounding Kits

DS468GKD

Table 58 - Grounding Kits

Switch	Grounding Lug Kit Cat. No.	Terminal Data AWG / kcmil
30–60 A Type DT, DTU (Series F)	Included	(3) 14-2 Al / Cu or (6) 14-10 Al / Cu
100 A Type DT, DTU (Series F)	Included	(3) 14–1/0 Al / Cu
30 A Type 92,000 (Series T4)	DT30SG	(4) 14-4 Al / Cu
200 A Type 82000 and DTU (Series E)	DT100SG	(3) 14–1/0 Al / Cu
400–600 A Type DTU (Series A)	DS468GKD	(2) 6–250 Al / Cu[138]

138. (3) 6-250 ground lugs are provided as standard. DS468GKD provides an additional (2) 6-250 ground lugs.

Class R Fuse Kits

RFK06

RFK10

When installed, this kit rejects all but Class R fuses. Kits are available for field installation.

Table 59 - Class R Fuse Kits

Switch	Series Number	Class R Fuse Kit Cat. No.
Class R Fuse Kits–240 V (two kits per three–pole switch)		
30 A	F5	RFK03
60 A		RFK06
100 A		RFK10
Class R Fuse Kits–600 V (two kits per three–pole switch)		
30 A	F5	RFK06
60 A		RFK06H
100 A		RFK10

Viewing Windows

Viewing window is not an offer in all double throws, consult with your local distributor to obtain more information.

Lock-ON Provisions

Lock-ON provisions are a standard feature on 30–100 A type DT and DTU (Series F), and type 92000 switches.

Rainproof Bolt-On Hubs for Double Throw Safety Switches

All hubs are for indoor or rainproof applications.

Suitable for use with conduit having ANSI standard taper pipe thread.

Type 3R switches with catalog number ending in RB have a bolt-on closing cap factory installed:

- Accepts 3/4 in. through 2-1/2 in. bolt-on hubs
- No gaskets required

Type 3R switches with R suffix have blank top endwalls:

- Accepts 3 in. through 4 in. bolt on hubs
- Gaskets provided
- Conduit entry holes must be cut in the field

Table 60 - Rainproof Bolt-On Hubs

Conduit Size	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4	Closing Cap
Hub Cat. No	B075	B100	B125	B150	B200	B250	B300	B350	B400	BCAP

Water Resistant Hubs

Water Resistant Hubs

- Suitable for use with conduit having ANSI standard taper pipe thread
- Water resistant hubs are field installed on Type 4 / 4X / 5 stainless steel and Type 12 / 3R and 12K enclosures
- Water resistant hubs are available in zinc or chrome plated finish
- Gaskets provided

Table 61 - Water Resistant Hubs

Conduit Size	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
Standard- Zinc Hub Cat. No.	H050	H075	H100	H125	H150	H200	H250	H300	H350	H400
Chrome Plated Hub Cat. No.	H050CP	H075CP	H100CP	H125CP	H150CP	H200CP	–	–	–	–

Application Data for Double Throw Safety Switches

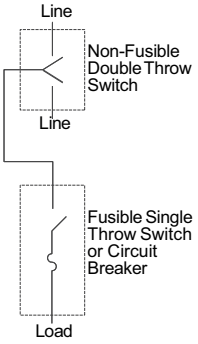


Diagram 1

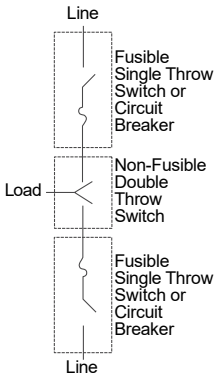


Diagram 2

Situations Requiring Fuses

- 30–100 A Type DT (Series F): Select DT switches from 240 Volt Double-Throw Safety Switches and 600 Volt Double Throw Safety Switches which have provisions for accepting fuses.
- 30 A, 200–600 A Type 82,000 (Series E, T4, A), DTU devices: Use the non-fusible double throw switches from 240 Volt Double-Throw Safety Switches, and 600 Volt Double Throw Safety Switches, in conjunction with standard fusible devices, and install them according to diagram 1, page 51 or diagram 2, page 51.

Table 62 - Maximum Short Circuit Current Ratings

Switch Type	Amperes	Voltage Rating	UL Listed Fuse Class	Short Circuit Current Rating [139] (A)
Type 92000	30	240 V	H, K	10,000 [140]
Type DT (Series F)	30–100	240 V – 600 V	H, K	10,000
			R, J	200,000
Type DTU [141] (Series F)	30–100	240 V – 600 V	H or K	10,000 [140]
			R, J or T	200,000
DTU224NRB and DTU324NRB (Series E)	200	240 V	H, K	10,000 [140]
DTU324N (Series E)	200	240 V	R, J	10,000
Type 82,000	All	240 V – 600 V	H, K	10,000 [140]
Type DTU (Series A)	400–600	240 V – 600 V	H, K	10,000
			R, J or T	100,000

139. Rating applies to AC only. The UL Listed short circuit current rating for non-fusible switches is based on the switch being used in conjunction with the corresponding fuse type. Evaluation of non-fusible switches in conjunction with molded case circuit breakers has not been performed.
140. Any brand of circuit breaker or fuse not exceeding the ampere rating of the switch may be used ahead of a non-fusible safety switch when there is up to 10 kA short circuit current available.
141. The DTU361 and DTU361RB are also suitable for use on a circuit capable of delivering not more than
(A) 18 kA, 600 Vac maximum when using Type FH circuit breaker rated 30 A maximum, or
(B) 14 kA, 600 Vac maximum when using Type FA circuit breaker rated 30 A maximum.

Terminal Lug Data for Double Throw Safety Switches

Table 63 - Terminal Lug Data for Type DT, DTU (Series F) Double Throw Safety Switches [142]

Switch Type	Wires per Phase	Type 1, 3R, 4, 4X, 12
		Standard Lug Wire Range AWG/kcmil
30–60 A Type DT, DTU (Series F)	1	12–2 Al or 14–2 Cu
100 A Type DT, DTU (Series F)	1	12–1/0 Al or 14–1/0 Cu

Table 64 - Terminal Lug Data for Types 82,000 and for A and E-Series DTU devices [142]

Amperes	Wires per Phase	Wire Range Wire Bending Space Per NEC Table 373-6	Lug Wire Range AWG/kcmil
		AWG/kcmil	
30 A (Series T4)	1	14–8 Al / Cu	12–2 Al or 14–2 Cu
200	1	6–300 Al / Cu	6–300 Al / Cu
400	1 or 2	1/0–600 Al / Cu or 1/0–300 Al / Cu	1/0–750 Al / Cu or 1/0–300 Al / Cu
600	2	250–500 Al / Cu	250–500 Al/Cu

142. 30-100 A switches suitable for 60°C or 75°C conductors. 200–600 A switches suitable for 75° C conductors.

Dimensions for Double Throw Safety Switches

Series F Devices 30–100 A

Table 65 - 30–100 A Type DT, DTU (Series F)–Approximate Dimensions

Cat. No.	Series	H		W		W/H		D	
		in.	mm	in.	mm	in.	mm	in.	mm
DT223	F5	38.00	965	9.88	251	11.13	283	6.75	171
DT223RB	F5	38.00	965	6.87	174	8.12	206	6.60	168
DT321RB	F5	38.00	965	10.25	260	11.80	300	6.60	168
DT322	F5	38.00	965	10.25	260	11.50	292	6.75	171
DT322RB	F5	38.00	965	10.25	260	11.80	300	6.60	168
DT323	F5	38.00	965	9.88	251	11.13	283	6.75	171
DT323RB	F5	38.00	965	6.87	174	8.12	206	6.60	168
DT361	F5	38.00	965	10.25	260	11.50	292	6.75	171
DT361RB	F5	38.00	965	10.25	260	11.80	300	6.60	168
DT362	F5	38.00	965	10.25	260	11.50	292	6.75	171
DT362RB	F5	38.00	965	10.25	260	11.80	300	6.60	168
DT363	F5	38.00	965	9.88	251	11.13	283	6.75	171
DT363RB	F5	38.00	965	6.87	174	8.12	206	6.60	168
DTU222	F5	29.94	760	10.25	260	11.96	304	6.93	176
DTU223	F5	29.94	760	10.25	260	11.96	304	6.93	176
DTU223RB	F5	30.50	775	10.25	260	11.96	304	6.93	176
DTU321	F5	29.94	760	10.25	260	11.96	304	6.93	176
DTU322	F5	29.94	760	10.25	260	11.96	304	6.93	176
DTU323	F5	29.94	760	10.25	260	11.96	304	6.93	176
DTU323RB	F5	30.50	775	10.25	260	11.96	304	6.93	176
DTU361	F5	29.94	760	10.25	260	11.96	304	6.93	176
DTU361RB	F5	30.50	775	10.25	260	11.96	304	6.93	176
DTU362	F5	29.94	760	10.25	260	11.96	304	6.93	176
DTU362AWK	F6	29.94	760	10.25	260	11.96	304	6.93	176
DTU362DS	F6	30.26	769	10.25	260	11.50	292	7.12	181
DTU362RB	F5	30.50	775	10.25	260	11.96	304	6.93	176
DTU363	F5	29.94	760	10.25	260	11.96	304	6.93	176
DTU363AWK	F6	29.94	760	10.25	260	11.96	304	6.93	176
DTU363DS	F6	30.26	769	10.25	260	11.50	292	7.12	181
DTU363RB	F5	30.50	775	10.25	260	11.96	304	6.93	176
DTU462	F5	29.94	760	10.25	260	11.96	304	6.93	176
DTU462AWK	F6	30.26	769	15.50	394	16.75	425	7.12	181
DTU462DS	F6	30.26	769	15.50	394	16.75	425	7.12	181
DTU463	F5	29.94	760	10.25	260	11.96	304	6.93	176
DTU463AWK	F6	30.26	769	15.50	394	16.75	425	7.12	181
DTU463DS	F6	30.26	769	15.50	394	16.75	425	7.12	181
DTU662AWK	F6	30.26	769	15.50	394	16.75	425	7.12	181
DTU663AWK	F6	30.26	769	15.50	394	16.75	425	7.12	181

Series A, E, and T4 Devices

Table 66 - 200–600 A Types 82,000 and E-Series DTU and 30 A devices–Approximate Dimensions

Cat. No.	Series	H		W		W/H		D	
		in.	mm	in.	mm	in.	mm	in.	mm
DTU224NRB	E1	32.50	826	20.63	524	24.00	610	10.63	270
CD82344	E2	30.88	784	20.00	508	23.88	607	11.75	298
C82344RB	E1	32.50	826	20.63	524	24.00	610	10.63	270
C82344DS	E1	30.88	784	20.00	508	23.88	667	11.75	298
DTU324N	E1	32.50	826	24.50	622	26.25	667	10.63	270
DTU324NRB	E1	32.50	826	24.50	622	26.25	667	10.63	270
H82344	E2	32.50	826	24.50	622	26.25	667	10.63	270
DTU326	A1	63.31	1608	23.66	601	24.46	621	8.88	226
DTU426	A1	63.31	1608	27.00	686	27.80	706	8.88	226
DTU366	A1	63.31	1608	23.66	601	24.46	621	8.88	226
DTU466	A1	63.31	1608	27.00	686	27.80	706	8.88	226
DTU326R	A1	63.76	1619	23.66	601	24.46	621	8.88	226
DTU426R	A1	63.76	1619	27.00	686	27.80	706	8.88	226
DTU366R	A1	63.76	1619	23.66	601	24.46	621	8.88	226
DTU466R	A1	63.76	1619	27.00	686	27.80	706	8.88	226
DTU366AWK	A1	63.76	1619	23.66	601	24.46	621	8.88	226
DTU225	A1	53.81	1367	23.13	588	23.88	607	7.25	184
DTU225R	A1	53.81	1367	23.13	588	23.88	607	7.25	184
DTU325	A1	53.81	1367	23.13	588	23.88	607	7.25	184
DTU325R	A1	53.81	1367	23.13	588	23.88	607	7.25	184
DTU365	A1	53.81	1367	23.13	588	23.88	607	7.25	184
DTU325R	A1	53.81	1367	23.13	588	23.88	607	7.25	184
DTU365AWK	A1	57.50	1461	23.00	584	23.75	603	7.25	184
DTU365DS	A1	57.50	1461	23.00	584	23.75	603	7.25	184
DTU465	A1	53.81	1367	23.13	588	23.88	607	7.25	184
DTU465R	A1	53.81	1367	23.13	588	23.88	607	7.25	184

Schneider Electric
800 Federal Street
Andover, MA. 01810
USA

888–778–2733

https://www.se.com/ca/en/

As standards, specifications, and design change from time to time, please ask for confirmation of the information given in this publication.

3130CT2401