

Section 3

Safety Switches



Light Duty



General Duty



Heavy Duty



Stainless Steel Heavy Duty

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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, class T or plug
4. Select maximum voltage: 240 Vac / 250 Vdc, 600 Vac / 600 Vdc
5. Select amperes:
 - General/light duty – 30 A, 60 A, 100 A, 200 A, 400 A, 800 A
 - Heavy duty – 30 A, 60 A, 100 A, 200 A, 225 A, 400 A, 600 A, 800 A, 1200 A
 - Double throw – 30 A, 60 A, 100 A, 200 A, 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 – NEMA 1, NEMA 3R
 - Heavy duty – NEMA1, NEMA 12K, NEMA 3R, 5, 12, NEMA 4, 4X, 5 (stainless steel 304), NEMA 4, 4X, 5 (stainless steel 316)
 - Double throw – NEMA1, NEMA 12K, NEMA 3R, 5, 12, NEMA 4, 4X, 5 (stainless steel 304)
 - Optional enclosure types for special heavy duty applications.

Wiring Diagrams

Fuse	Fused with Neutral Two-wire (1 blade and fuse holder)	Non-Fused
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)

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 AMP, Type 1, Type 3R, Type 12, and Type 4X Stainless Steel Enclosures.

- 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.



Enclosure Options

Enclosure units are third part certified to UL 50E by Underwriters Laboratories

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, lint, 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

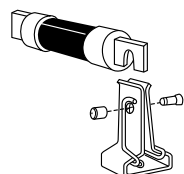
Plug Type Fuses: Fuses for standard circuits (not high-voltage appliance circuits) are called plug fuses and have screw-in bases. There are two different types of bases and screw-in fuses: the Edison base (found on Type T fuses) and the rejection base (found on Type S fuses).

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 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 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 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.






Class R Fuse

Light Duty—Visible Blades 10 kA Short Circuit Current Rating

The Square D light duty enclosed switch is ideal for home applications in disconnecting power to workshops, hobby rooms, furnaces, and garages. The light duty safety switch has visible blades and a ground lug as standard features. NEC 2023 404.30 protects against these units from being applied in any application, please obtain Heavy Duty Safety Switch if NEC 2023 compliance is required.

Table 3.1: 120 V or 120/240 Volt — Single Throw Fusible Switches

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

General Duty—Up To 100 kA Short Circuit Current Rating

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. They are suitable for use as service equipment when equipped with a factory or field-installed neutral assembly or a field-installed service grounding kit, (see page 3-7) as applicable. General duty safety switches are UL Listed, File E2875, and meet or exceed the NEMA Standard KS1. NEC 2023 404.30 protects against these units from being applied in any application, please obtain Heavy Duty Safety Switch if NEC 2023 compliance is required.

240 Volt—Single Throw Fusible Switches

Table 3.2: Fusible

Amperes	NEMA Type 1	NEMA Type 3R [1]	Class R Fuse Kits [2]	Line Side Barrier[3]	Equipment Ground Kit	Horsepower Ratings			
	Cat. No.	Cat. No.	Cat. No.		Cat. No.	Std. (Fast Acting One-Time Fuses)		Max. (Dual Element Time-Delay Fuses)	
2 Wire (1 Blade and Fuseholder, 1 Neutral)—120 Vac									
Use Light Duty Devices or use three-wire devices									
3 Wire (2 Blade and Fuseholder, 1 Neutral) – 120/240 Vac Plug Type Fuses									
30	D211N	D211NRB	—	—	PK3GTA1	1-1/2	—	3	—
3 Wire (2 Blade and Fuseholder, 1 Neutral)—240 Vac Cart. Type Fuses									
30	D221N	D221NRB	DRK30	Factory Included	PK3GTA1	1-1/2	3 [4]	3	7-1/2 [4]
60	D222N	D222NRB	RFK03H	Factory Included	GTK03	3	7-1/2 [4]	10	15 [4]
100	D223N	D223NRB	RFK10	Factory Included	GTK0610	7-1/2	15 [4]	15	30 [4]
200	D224N [5]	D224NRB [5]	HRK1020	Factory Included	PKOGTA2	15	25 [4]	—	60 [4]
400	D225N	D225NR	DRK40	LSBI02	PKOGTA2	—	—	—	—
600 [6]	D226N	D226NR	DRK600	LSBI02	PKOGTA2	—	—	—	—
4 Wire (3 Blade and Fuseholder, 1 Neutral)—240 Vac Cart. Type Fuses									
30	D321N	D321NRB	DRK30	Factory Included	PK3GTA1	1-1/2	3	3	7-1/2
60	D322N	D322NRB	RFK03H	Factory Included	GTK03	3	7-1/2 [7]	10	15 [7]
100	D323N	D323NRB	RFK10	Factory Included	GTK0610	7-1/2	15 [7]	15	30 [7]
200	D324N [5]	D324NRB [5]	HRK1020	Factory Included	PKOGTA2	15	25 [7]	—	60 [7]
400	D325N	D325NR	DRK40	LSBI02	PKOGTA2	—	50	—	—
600 [6]	D326N	D326NR	DRK600	LSBI02	PKOGTA2	—	75	—	150
4 Wire (3 Blade and Fuseholder, 1 Neutral)—240 Vac CLASS T Type Fuses									
400 [8]	D325NT	D325NTR	DRK40	LSBI02	PKOGTA2	—	50	—	—
600 [8]	D326NT	D326NTR	DRK600	LSBI02	PKOGTA2	—	75	—	150
800 [8]	T327N	T327NR	—	LSBI02	PKOGTA2	—	100	—	—



D223N

Table 3.3: Fusible Switch UL Listed Maximum Short Circuit Current Ratings — AC Only

Fuse Class	UL Listed Short Circuit Rating
Plug	10 kA
H, K	10 kA
R	10 kA [9]
R with Rejection Fuse Clips	100 kA
J	100 kA
T	100 kA

[1] Bolt-on hubs —Refer to Rainproof Bolt-On Hubs, Table 1.27, page 3-15.

[2] When properly installed, the Class R Fuse Kit accepts only Class R fuses.

[3] Factory included to protect against inadvertent contact with live parts per UL 869A and NEC Service entrance barrier requirements.

[4] For corner grounded delta systems, use switching poles for ungrounded conductors. See data bulletin 2700DB0202 for additional information.

[5] For 200% neutral, order (1) additional neutral kit SN20A and (1) neutral jumper kit SN20NI.

[6] Order Class J Fuse Kit GDJK600 if using Class J fuses.



[7] If corner grounded delta system, use outer switching poles for ungrounded conductors.

[8] D325NT, D325NTR, D326NT, D326NTR, T327N and T327NR accept only 300Vac Class T fuses.

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

240 Volt—Single Throw Non-Fusible Switches

Table 3.4: Non-Fusible

Table 3-4. Non-Fusible								
System	Amperes	NEMA Type 1	NEMA Type 3R ^[10]	Line Side Barriers ^[11]	Equipment Ground Kit	Neutral Kit	Horsepower Ratings (Max.) Max. (Dual Element Time-Delay Fuses)	
		Cat. No.	Cat. No.				1Ø	3Ø
2 Wire (2 Blade)—240 Vac								
	30	—	DU221RB	Factory Included	PK3GTA1	—	3	—
	60	—	DU222RB	Factory Included	GTK03	—	10	—
	100	Use three wire switch	—	—	—	—	—	—
	200		—	—	—	—	—	—
	400		—	—	—	—	—	—
	600		—	—	—	—	—	—
3 Wire (3 Blade and Fuseholder)—240 Vac								
	30	DU321	DU321RB	Factory Included	PK3GTA1	—	3	7-1/2
	60	DU322	DU322RB	Factory Included	GTK03	—	10	15
	100	DU323 ^[12]	DU323RB ^[12]	Factory Included	GTK0610	—	10	30
	200	DU324 ^[13]	DU324RB ^[13]	Factory Included	PKOGTA2	—	15	60
	400	DU325	—	LSBI02	PKOGTA2	—	—	125
	600	DU326 ^[14]	—	LSBI02	PKOGTA2	—	—	150

System equal or less than 10 kA 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 10kA SCCR — The UL listed 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 or Mag-Gard motor circuit protection

Table 3.5: Non-Fusible Safety Switch Short Circuit Current Rating

Fuse Class or Circuit Breaker Type ^[15]	UL Listed Short Circuit Rating
Any Brand Circuit Breaker	10 kA
H or J PowerPact Circuit Breaker	Up to 65 kA ^[16]
H, K	10 kA
J, R	100 kA ^[17]
T	100 kA ^[18]

^[10] Bolt-on hubs—Refer to [Hubs](#), page 3-15.

^[11] Factory included to protect against inadvertent contact with live parts per UL 869A and NEC Service entrance barrier requirements.

^[12] If a neutral assembly is required, order and field install SN0610.

^[13] If a neutral assembly is required, order and field install a SN20A Neutral Assembly Kit. For a 200% neutral application, order and field install (2) SN20A Neutral Assembly Kits and (1) SN20NI Neutral Jumper Kit.

^[14] If a neutral assembly is required, order and field install D600SN.

^[15] Ampere rating of fuse or circuit breaker not to exceed switch ampere rating.

^[16] Only applicable to DU324 and DU324RB. HD, JD = 25 kA maximum.

^[17] SCCR = 50 kA, applicable to DU222RB, DU322 and DU322RB.

^[18] Only applicable to DU323, DU323RB, DU325 and DU326.



Fuse Puller Kit
Series F Fusible Switches
Only

Field-Installed Fuse Puller Kits

Kit consists of three fuse pullers as required for a 3P, fusible, 60 or 100 A general duty switch. Kits can be installed only in 60 or 100 A Series F fusible switches.

Table 3.6: Fuse Puller Kits

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

Field-Installed Electrical Interlock Kits

Electrical interlocks for Series F 100–200 A general duty safety switches & 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. Switches with electrical interlocks installed are UL Listed.

Table 3.7: Electrical Interlock Kit

Switch Amperes Rating	Electrical Interlock Kit Cat. No. [19]
Fusible Series F 60	EIK031 or EIK032
Series F 100–200	EIK1 or EIK2

Table 3.8: Electrical Interlock Contact Ratings [20]

Interlock Type	AC 50 or 60Hz				DC		
	Volts	Make	Break	Cont.	Volts	Make / Break	Cont.
1 N. O. / 1 N. C. Contact (-1 Suffix [21])	120	40.00 A	15.00 A	15.00 A	115	0.50 A	15.00 A
	240	20.00 A	10.00 A	15.00 A	230	0.25 A	15.00 A
2 N. O. / 2 N. C. Contacts (-2 Suffix [22])	120	30.00 A	3.00 A	10.00 A	115	1.00 A	10.00 A
	240	15.00 A	1.5 A	10.00 A	230	0.30 A	10.00 A

Equipment Grounding Kits



PK3GTA1



GTK0610



PK0TGA2

Table 3.9: Equipment Grounding Kits

Switch Ampere Rating	Cat. No.	Lug Wire Range (AWG)
30 [23]	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 [24]	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	PK0TGA2	(2) 10 – 2/0 Cu or (2) 6 – 2/0 Cu Al
400, 600	PK0GTA2 [25]	(2) 10 – 2/0 Cu or (2) 6 – 2/0 Cu Al
800	PK0GTA3	(6) 6 – 3/0 Al/Cu Max.

Field-Installed Lug Kit 400 A – 600 A

Table 3.10: Field-Installed Lug Kit 400 A – 600 A

Switch Ampere Rating	Lug Kit Cat. No.	Wire Range/NEC	Lug Wire Range
400 or 600 Series [26]	GD4060LK	1-1/0-600 kcmil 2-1/0-500 kcmil 4-1/0-250 kcmil	2-1/0-600 kcmil 4-1/0-250 kcmil

Terminal Lug Data

Table 3.11: Terminal Lug Data [27]

Amperes	Conductors Per Phase	Wire Range Wire Bending Space Per NEC Table 312.6 AWG/kcmil	Lug Wire Range AWG/kcmil
30 [28]	1	12–8 (Al) or 14–8 (Cu)	12–8 (Al) or 14–8 (Cu)
30	1	12–6 (Al) or 14–6 (Cu)	12–6 (Al) or 14–6 (Cu)
60	1	12–3 (Al) or 14–3 (Cu)	12–2 (Al) or 14–2 (Cu)
100	1	12–1 (Al) or 14–1 (Cu)	12–1/0 (Al) or 14–1/0 (Cu)
200	1	6–250 (Al/Cu)	6–300 (Al/Cu)
400 NEMA Type 1	1 or 2	1/0–600 (Al/Cu) or 1/0–300 (Al/Cu)	(1) 1/0–750 (Al/Cu) or (2) 1/0–300 (Al/Cu)
400 NEMA Type 3R	2	1/0–250 (Al/Cu)	(1) 1–600 (Al/Cu) or (2) 1/0–250 (Al/Cu)
600	2	4–500 (Al/Cu)	4–600 (Al/Cu)
800	3	3/0–500 (Al/Cu)	3/0–500 (Al/Cu)

[19] 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. Kits are UL Listed.

[20] Single-pole single-throw interlock kits are rated 1/2 hp at 110 and 220 Vac.

[21] -1 Suffix uses a 9007A01 limit switch.

[22] -2 Suffix uses a 9007C03 limit switch.

[23] Light duty safety switches.

[24] 60 A non-fusible switches accept PK3GTA1.

[25] Two required if ground conductors are run in parallel.

[26] Not suitable for use on 400 A NEMA Type 3R.

[27] 30–100 A switches suitable for 60°C or 75°C conductors. 200–800 A switches suitable for 75°C conductors.

[28] Light duty switches only.

Dimensions for General Duty Safety Switches

Table 3.12: 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	127	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
D211N	E3	9.25	235	6.75	171	7.25	184	3.63	92	5
D211NRB	E2	9.63	245	7.25	184	7.75	197	3.75	95	5
D221N	E3	9.25	235	6.75	171	7.25	184	3.63	92	5
D221NRB	E3	9.63	245	7.25	184	7.75	197	3.75	95	5
D222N	F1	14.63	372	6.50	165	7.45	189	4.88	124	1
D222NRB	F1	14.88	378	6.63	168	7.45	189	4.88	124	1
D223N	F3	17.50	445	8.50	216	10.50	267	6.50	165	1
D223NRB	F3	17.50	445	8.50	216	10.50	267	6.50	165	1
D224N	F1	29.00	737	17.25	438	19.00	483	8.25	210	1
D224NRB	F1	29.25	743	17.25	438	19.00	483	8.25	210	1
D225N	E3	45.12	1146	24.00	610	24.88	632	8.88	226	1
D225NR	E1	30.63	778	21.38	543	22.25	565	10.13	257	1
D226N	E3	49.13	1248	24.00	610	24.88	632	8.88	226	1
D226NR	E1	49.13	1248	24.75	629	25.13	638	8.88	226	1
D321N	E3	9.25	235	6.75	171	7.25	184	3.63	92	5
D321NRB	E3	9.63	245	7.25	184	7.75	197	3.75	95	5
D322N	F1	14.63	372	6.50	165	7.45	189	4.88	124	1
D322NRB	F1	14.88	378	6.63	168	7.45	189	4.88	124	1
D323N	F3	17.50	445	8.50	216	10.50	267	6.50	165	1
D323NRB	F3	17.50	445	8.50	216	10.50	267	6.50	165	1
D324N	F1	29.00	737	17.25	438	19.00	483	8.25	210	1
D324NRB	F1	29.25	743	17.25	438	19.00	483	8.25	210	1
D325N	E3	45.12	1146	24.00	610	24.88	632	8.88	226	1
D325NT	E3	45.12	1146	24.00	610	24.88	632	8.88	226	1
D325NR	E1	30.63	778	21.38	543	22.25	565	10.13	257	1
D325NTR	E1	30.63	778	21.38	543	22.25	565	10.13	257	1
D326N	E3	49.13	1248	24.00	610	24.88	632	8.88	226	1
D326NT	E3	49.13	1248	24.00	610	24.88	632	8.88	226	1
D326NR	E1	49.13	1248	24.75	629	25.13	638	8.88	226	1
D326NTR	E1	49.13	1248	24.75	629	25.13	638	8.88	226	1
DU221RB	E2	9.63	245	7.25	184	7.75	197	3.75	95	5
DU222RB	E1	9.63	245	7.25	184	7.75	197	3.75	95	5
DU321	E2	9.25	235	6.75	171	7.25	184	3.63	92	5
DU321RB	E2	9.63	245	7.25	184	7.75	197	3.75	95	5
DU322	E1	9.25	235	6.75	171	7.25	184	3.63	92	5
DU322RB	E1	9.63	245	7.25	184	7.75	197	3.75	95	5
DU323	F3	17.50	445	8.50	216	10.50	267	6.50	165	1
DU323RB	F3	17.50	445	8.50	216	10.50	267	6.50	165	1
DU324	F1	29.00	737	17.25	438	19.00	483	8.25	210	1
DU324RB	F1	29.25	743	17.25	438	19.00	483	8.25	210	1
DU325	E3	45.12	1146	24.00	610	24.88	632	8.88	226	1
DU326	E3	49.13	1248	24.00	610	24.88	632	8.88	226	1
T327N	E1	49.13	1248	24.00	610	24.88	632	8.88	226	1
T327NR	E1	49.13	1248	24.75	629	25.13	638	8.88	226	1

Heavy Duty Safety Switches



NEMA Type 1



NEMA Type 3R



NEMA Type
4, 4X, 5
Stainless Steel



NEMA Type 12

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 field- or factory-installed neutral assembly or equipment grounding kit, unless a 600Y/347 V or 480 Y/277 V, 1000 A or greater, solidly grounded WYE system is used, per NEC 230-95. Heavy duty safety switches are UL Listed (except as noted). Files E2875 and E154828 meet or exceed the NEMA Standard KS1. For UL Listed short circuit current ratings, see

UL Listed Maximum Short Circuit Current Ratings-AC only, page 3-11.

Table 3.13: 240 Volt — Single Throw Fusible Switches

Amp	Type 1	Type 3R [1]	Equipment Ground Kit	Type 12[1]	Type 4X 304 SS[1]	Class R Fuse Kits	Line Side Barriers [2]	Horsepower Ratings				
								Std (Fast Acting One-Time Fuses)		Max (Dual Element Time-Delay Fuses)		250 Vdc [3]
								1Ø	3Ø [4]	1Ø	3Ø [4]	
2 Wire (2 Blade and Fuseholder) – 240 Vac 250 Vdc												
30	Use device with factory neutral			VH221AWKGL	VH221DSGL	RFK03L	Factory Included	1-1/2	3	3	7-1/2	5
30				VH2213AWKGL	VH2213DSGL	RFK03L	Factory Included	1-1/2	—	3	—	5
60				VH222AWKGL	VH222DSGL	RFK03H	Factory Included	3	7-1/2	10	15	10
100				VH223AWKGL	VH223DSGL	RFK10	Factory Included	7-1/2	15	15	30	20
200				VH224AWKGL	VH224DSGL	HRK1020	Factory Included	15	25	—	60	40
400	H225	H225R	PKOGTA2	H225AWK	H225DS	HRK4060	LSBG202	—	—	—	—	50
600	H226	H226R	PKOGTA2	H226AWK	H226DS	HRK4060	LSBG202	—	75	—	200	50
800	H227	H227R	PKOGTA7	H227AWK	—	—	LSBF202	50	—	—	—	50
1200	H228	H228R	PKOGTA8	H228AWK	—	—	LSBF202	50	—	—	—	50
3 Wire (2 Blade and Fuseholder, 1 neutral) – 240 Vac 250 Vdc												
30	VH221N	VH221NRB	GTK03	VH221NAWKGL	VH221NDSGL	RFK03L	Factory Included	1-1/2	3	3	7-1/2	5
60	VH222N	VH222NRB	GTK03	VH222NAWKGL	VH222NDSGL	RFK03H	Factory Included	3	7-1/2	10	15	10
100	VH223N	VH223NRB	GTK0610	VH223NAWKGL	VH223NDSGL	RFK10	Factory Included	7-1/2	15	15	30	20
200	VH224N	VH224NR	PKOGTA2	VH224NAWKGL	VH224NDSGL	HRK1020	Factory Included	15	25	—	60	40
400	H225N	H225NR	PKOGTA2	H225NAWK	H225NDS	HRK4060	LSBG202	—	50	—	125	50
600	H226N	H226NR	PKOGTA2	H226NAWK	H226NDS	HRK4060	LSBG202	—	75	—	200	50
800	H227N	H227NR	PKOGTA7	H227NAWK	—	—	LSBF202	50	—	—	—	50
1200	H228N	H228NR	PKOGTA8	H228NAWK	—	—	LSBF202	50	—	—	—	50
3 Wire (3 Blade and Fuseholder) – 240 Vac 250 Vdc												
30	Use device with factory neutral			VH321AWKGL	VH321DSGL	RFK03L	Factory Included	1-1/2	3	3	7-1/2	5
60				VH322AWKGL	VH322DSGL	RFK03H	Factory Included	3	7-1/2	10	15	10
100				VH323AWKGL	VH323DSGL	RFK10	Factory Included	7-1/2	15	15	30	20
200				VH324AWKGL	VH324DSGL	HRK1020	Factory Included	15	25	—	60	40
400	H325	H325R	PKOGTA2	H325AWK	H325DS	HRK4060	LSBG203	—	50	—	125	50
600	H326	H326R	PKOGTA2	H326AWK	H326DS	HRK4060	LSBG203	—	75	—	200	50
800	H327	H327R	PKOGTA7	H327AWK	—	—	LSBF203	50	—	—	—	50
1200	H328	H328R	PKOGTA8	H328AWK	—	—	LSBF203	50	—	—	—	50
4 Wire (3 Blade and Fuseholder, 1 neutral) –240 Vac 250 Vdc												
30	VH321N	VH321NRB	GTK03	VH321NAWKGL	VH321NDSGL	RFK03L	Factory Included	1-1/2	3	3	7-1/2	5
60	VH322N	VH322NRB	GTK03	VH322NAWKGL	VH322NDSGL	RFK03H	Factory Included	3	7-1/2	10	15	10
100	VH323N	VH323NRB	GTK0610	VH323NAWKGL	VH323NDSGL	RFK10	Factory Included	7-1/2	15	15	30	20
200	VH324N	VH324NR	PKOGTA2	VH324NAWKGL	VH324NDSGL	HRK1020	Factory Included	15	25	—	60	40
400	H325N	H325NR	PKOGTA2	H325NAWK	H325NDS	HRK4060	LSBG203	—	50	—	125	50
600	H326N	H326NR	PKOGTA2	H326NAWK	H326NDS	HRK4060	LSBG203	—	75	—	200	50
800	H327N	H327NR	PKOGTA7	H327NAWK	—	—	LSBF203	50	—	—	—	50
1200	H328N	H328NR	PKOGTA8	H328NAWK	—	—	LSBF203	50	—	—	—	50

[1] For rainproof bolt-on hubs and water resistant hubs.

[2] Factory included to protect against inadvertent contact with live parts per .UL 869A and NEC Service entrance barrier requirements.

[3] For switching dc, use two outside switching poles.

[4] For corner grounded delta systems, use switching poles for ungrounded conductors. See data bulletin 2700DB0202 for additional information.

Accessories: see page 3-15

Dimensions: NEMA Type 1 and 3R, see page 3-21

Dimensions: NEMA Type 4, 4X and 5 Stainless and NEMA Type 12, see page 3-22

600 Volt—Single Throw Fusible

Table 3.14: 600 Volt—Single Throw Fusible

Amp	Type 1	Type 3R [5]	Equipment Ground Kit	Type 12 [5]	Type 4X 304 SS [5]	Class R Fuse Kits	Line Side Barriers [6]	Horsepower Ratings						
								Std (Fast Acting One-Time Fuses)		Max (Dual Element Time-Delay Fuses)		250 Vdc [7]	600 Vdc	
2 Wire (2 Blade and Fuseholder) – 600 Vac 600 Vdc								1Ø	3Ø	1Ø	3Ø			
30	Use device with Three blade													
60														
100														
200														
400	H265	H265R	PKOGTA2	H265AWK	H265DS	HRK4060	LSBG602	100	250	—		50	50	
600	H266	H266R	PKOGTA2	H266AWK	H266DS	HRK4060	LSBG602	150	400	—		50	50	
800	H267	H267R	PKOGTA7	H267AWK	—	—	LSBF602	—	—	—	—	—	50	
1200	H268	H268R	PKOGTA8	H268AWK	—	—	LSBF602	—	—	—	—	—	50	

Amp	Type 1	Type 3R	Equipment Ground Kit	Type 12	Type 4X 304 SS	Class R Fuse Kits	Line Side Barriers	Horsepower Ratings					
								3Ø Std (Fast Acting One-Time Fuses)	3Ø Max (Dual Element Time-Delay Fuses)	250 Vdc	600 Vdc		
												480 V	600 V
3 Wire (3 Blade and Fuseholder) – 600 Vac 600 Vdc													
30	VH361	VH361RB	GTK03	VH361AWKGL	VH361DSGL	RFK03L	Factory Included	5	15	7-1/2	20	5	15
30	—	—	—	VH3613AWKGL	VH3613DSGL	RFK03L	Factory Included	5	15	7-1/2	20	—	15
60	VH362	VH362RB	GTK03	VH362AWKGL	VH362DSGL	RFK03H	Factory Included	15	30	15	50	—	30
100	VH363	VH363RB	GTK0610	VH363AWKGL	VH363DSGL	RFK10	Factory Included	25	60	30	100	—	50
200	VH364	VH364R	PKOGTA2	VH364AWKGL	VH364DSGL	HRK1020	Factory Included	50	125	60	150	40	50
400	H365	H365R	PKOGTA2	H365AWK	H365DS	HRK4060	LSBG602	100	250	125	350	50	50
600	H366	H366R	PKOGTA2	H366AWK	H366DS	HRK4060	LSBG602	150	400	200	500	50	50
800	H367	H367R	PKOGTA7	H367AWK	—	—	LSBF602	200	500	250	500	—	50
1200	H368	H368R	PKOGTA8	H368AWK	—	—	LSBF602	200	500	250	500	—	50
4 Wire (3 Blade and Fuseholder, 1 neutral) – 600 Vac 600 Vdc													
30	VH361N	VH361NRB	GTK03	VH361NAWKGL	VH361NDSGL	RFK03L	Factory Included	5	15	7-1/2	20	5	15
60	VH362N	VH362NRB	GTK03	VH362NAWKGL	VH362NDSGL	RFK03H	Factory Included	15	30	15	50	—	30
100	VH363N	VH363NRB	GTK0610	VH363NAWKGL	VH363NDSGL	RFK10	Factory Included	25	60	30	100	—	50
200	VH364N	VH364NR	PKOGTA2	VH364NAWKGL	VH364NDSGL	HRK1020	Factory Included	50	125	60	150	40	50
400	H365N	H365NR	PKOGTA2	H365NAWK	H365NDS	HRK4060	LSBG203	100	250	125	350	50	50
600	H366N	H366NR	PKOGTA2	H366NAWK	H366NDS	HRK4060	LSBG203	150	400	200	500	50	50
800	H367N	H367NR	PKOGTA7	H367NAWK	—	—	LSBF203	200	500	250	500	—	50
1200	H368N	H368NR	PKOGTA8	H368NAWK	—	—	LSBF203	200	500	250	500	—	50

Table 3.15: Fusible Switch UL Listed Maximum Short Circuit Current Ratings — AC Only

Fuse Class	UL Listed Short Circuit Rating
Plug	10 kA
H, K	10 kA
R	10 kA[8]
R with Rejection Fuse Clips	100 kA
J	100 kA
T	100 kA

Accessories: see page 3-15

Dimensions: NEMA Type 1 and 3R, see page 3-21

Dimensions: NEMA Type 4, 4X and 5 Stainless and NEMA Type 12, see page 3-22

[5] For rainproof bolt-on hubs and water resistant hubs.

[6] Factory Included to protect against inadvertent contact with live parts per UL 869A and NEC service entrance barrier requirements.

[7] For switching dc, use two outside switching poles.

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

600 Volt—Single Throw Non-Fusible

Table 3.16: 600 Volt—Single Throw Non-Fusible

Amp	Type 1	Type 3R [9]	Equipment Ground Kit	Type 12 [9]	Type 4X 304 SS [9]	Class R Fuse Kits	Line Side Barriers [10]	Horsepower Ratings					
								Std (Fast Acting One-Time Fuses)		Max (Dual Element Time-Delay Fuses)		250 Vdc [11]	600 Vdc
								1Ø	3Ø	1Ø	3Ø		
2 Wire (2 Blade and Fuseholder) – 600 Vac 600 Vdc													
30	Use device with Three blade												
60													
100													
200													
400	HU265	HU265R	PKOGTA2	HU265AWK	HU265DS	HRK4060	LSBG602	—	125	—	250	50	50
600	HU266	HU266R	PKOGTA2	HU266AWK	HU266DS	HRK4060	LSBG602	—	200	—	400	50	50
800	HU267	HU267R	PKOGTA7	HU267AWK	—	—	LSBF602	—	—	—	—	—	50
1200	HU268	HU268R	PKOGTA8	HU268AWK	—	—	LSBF602	—	—	—	—	—	50

Amp	Type 1	Type 3R	Equipment Ground Kit	Type 12	Type 4X 304 SS	Class R Fuse Kits	Line Side Barriers	Horsepower Ratings					
								3Ø Std (Fast Acting One-Time Fuses)	3Ø Max (Dual Element Time-Delay Fuses)	250 Vdc	600 Vdc		
												480 V	600 V
3 Wire (3 Blade and Fuseholder) – 600 Vac 600 Vdc													
30	VHU361	VHU361RB	GTK03	VHU361AWKGL	VHU361DSGL	RFK03L	Factory Included	5	15	7-1/2	20	5	15
30	—	—	—	VHU3613AWKGL	VHU3613DSGL	RFK03L	Factory Included	5	15	7-1/2	20	—	15
60	VHU362	VHU362RB	GTK03	VHU362AWKGL	VHU362DSGL	RFK03H	Factory Included	15	30	15	50	—	30
100	VHU363	VHU363RB	GTK0610	VHU363AWKGL	VHU363DSGL	RFK10	Factory Included	25	60	30	100	—	50
200	VHU364	VHU364R	PKOGTA2	VHU364AWKGL	VHU364DSGL	HRK1020	Factory Included	50	125	60	150	40	50
400	HU365	HU365R	PKOGTA2	HU365AWK	HU365DS	HRK4060	LSBG602	100	250	125	350	50	50
600	HU366	HU366R	PKOGTA2	HU366AWK	HU366DS	HRK4060	LSBG602	150	400	200	500	50	50
800	HU367	HU367R	PKOGTA7	HU367AWK	—	—	LSBF602	200	500	250	500	—	50
1200	HU368	HU368R	PKOGTA8	HU368AWK	—	—	LSBF602	200	500	250	500	—	50

UL Listed Maximum Short Circuit Current Ratings—AC only

Table 3.17: Fusible Safety Switches

Heavy Duty Safety Switch Type	UL Listed Fuse Class	UL Listed Short Circuit Current Ratings
Fusible	H, K	10 kA
	R, J, L	200 kA [12]

Non-Fusible Safety Switches

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—The UL Listed 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 or Mag-Gard motor circuit protectors.

Table 3.18: Non-Fusible Safety Switches [13] [14]

Switch Rating (A)	Fuse or Circuit Breaker Type [15]	3-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	
30–100	HG	65 kA	35 kA	18 kA	
30–100	HJ	65 kA	35 kA	25 kA	
30–100	HL	65 kA	35 kA	35 kA	
30–100	HR	65 kA	35 kA	35 kA	
30–100	FA	14 kA	14 kA	14 kA	
30–100	FH	18 kA	18 kA	18 kA	
200	HD, JD	25 kA	18 kA	14 kA	
200	HG, JG	65 kA	35 kA	18 kA	
200	HJ, JJ	65 kA	35 kA	25 kA	
200	HL, JL	65 kA	35 kA	35 kA	
200	HR, JR	65 kA	35 kA	35 kA	
400	LA	22 kA	22 kA	22 kA	
400	LH	25 kA	25 kA	25 kA	
400–600	LD	25 kA	18 kA	14 kA	
400–600	LG	65 kA	35 kA	18 kA	
400–600	LJ	100 kA	65 kA	25 kA	
400–600	LL	100 kA	65 kA	50 kA	
400–600	LR	100 kA	65 kA	65 kA	

[9] For rainproof bolt-on hubs and water resistant hubs.

[10] Factory Included to protect against inadvertent contact with live parts per UL 869A and NEC service entrance barrier requirements.

[11] For switching dc, use two outside switching poles.

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

[13] For NEMA Type 4X Fiberglass Reinforced Polyester switches, see page 3-13.

[14] NEMA Type 7/9 SCCR 10 kAIR 600 Vac maximum.

[15] Ampere rating of fuse or circuit breaker not to exceed switch ampere rating.

Table 3.19: 4-Pole and 6-Pole NOT SUITABLE FOR SERVICE ENTRANCE

Amp	Fusable	Class R		NonFusible	Line Side	Horsepower Ratings Max (Dual Element Time-Delay Fuses)								
		Fuse Kits				Barriers [16]	240 V		480 V		600 V		250 Vdc	600 Vdc
							2Ø	3Ø	2Ø	3Ø	2Ø	3Ø		
4-Wire (4 Blade) – 600 Vac 600 Vdc Type 12														
30	H461AWK	RFK03L	—	Factory Included	10	10	20	20	25	30	10	15		
30	—	—	HU461AWK (Series F6)	Factory Included	10	10	20	20	25	30	5	15		
60	H462AWK	RFK03H	HU462AWK	Factory Included	20	20	40	50	50	60	10	30		
100	H463AWK	RFK10	HU463AWK	Factory Included	30	40	50	75	50	75	20	30		
200	H464AWK	HRK1020	HU464AWK	Factory Included	50	60	50	125	50	150	40	50		
400	H465AWK	HRK4060	HU465AWK	Qty. (2): LSBG602	—	125	—	250	—	350	50	50		
4-Wire (4 Blade) – 600 Vac 600 Vdc Type 4X														
30	H461DS	RFK03L	HU461DS	Factory Included	10	10	20	20	25	30	10	15		
60	H462DS	RFK03H	HU462DS	Factory Included	20	20	40	50	50	60	10	30		
100	H463DS	RFK10	HU463DS	Factory Included	30	40	50	75	50	75	20	30		
200	H464DS	HRK1020	HU464DS	Factory Included	50	60	50	125	50	150	40	50		
400	H465DS	HRK4060	HU465DS	Qty. (2): LSBG602	—	125	—	250	—	350	50	50		
6-Wire (6 Blade) – 600 Vac 600 Vdc Type 12														
30	—	—	HU661AWK	Factory Included	—	10	—	20	—	30	—	—		
60	—	—	HU662AWK	Factory Included	—	20	—	50	—	60	—	—		
100	H663AWK	RFK10	HU663AWK	Factory Included	—	50	—	75	—	75	—	—		
200	H664AWK	HRK1020	HU664AWK	Factory Included	—	60	—	125	—	150	—	—		
6-Wire (6 Blade) – 600 Vac 600 Vdc Type 4X														
30	—	—	HU661DS	Factory Included	—	10	—	20	—	30	—	—		
60	—	—	HU662DS	Factory Included	—	20	—	50	—	60	—	—		
100	H663DS	RFK10	HU663DS	Factory Included	—	50	—	75	—	75	—	—		
200	H664DS	HRK1020	HU664DS	Factory Included	—	60	—	125	—	150	—	—		

[16] Factory Included to protect against inadvertent contact with live parts per UL 869A and NEC service entrance barrier requirements.

Special Application Heavy Duty Safety Switches



VH361SSGL



H363DF



H361DX

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

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 [Hubs, page 3-15](#). Equipment grounding lugs are supplied as standard through 200 A. See [Table 3.38 Terminal Lug Data, page 3-20](#) for wire Termination data for grounding lugs. (For 304 stainless switches, see [240 Volt, page 3-9](#) and [600 Volt, page 3-10](#).)

Table 3.20: 316 Grade Stainless Steel 3 Pole 600 Vac, 600 Vdc

Amperes	Cat. No	Line Side Barriers ^[17]	Horsepower Ratings— 3Ø				
			480 Vac ^[18]		600 Vac ^[18]		600 Vdc ^[19]
			Std.	Max.	Std.	Max.	Max.
Fusible—3P, 600 Vac, 600 Vdc							
30	VH361SSGL	Factory included	5	15	7 1/2	20	15
60	VH362SSGL	Factory included	15	30	15	50	30
100	VH363SSGL	Factory included	25	60	30	75	50
200	VH364SSGL	Factory included	50	125	60	150	50
400	H365SS	LSBG602	100	250	125	350	50
600	H366SS	LSBG602	150	400	200	500	50
Non-Fusible—3P, 600 Vac, 600 Vdc							
30	VHU361SSGL	Factory included	—	20	—	30	15
60	VHU362SSGL	Factory included	—	50	—	60	30
100	VHU363SSGL	Factory included	—	75	—	100	50
200	VHU364SSGL	Factory included	—	125	—	150	50
400	HU365SS	LSBG602	—	250	—	350	50
600	HU366SS	LSBG602	—	400	—	500	50

Fiberglass Reinforced Polyester Enclosures—NEMA Type 4X

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 [Table 3.39](#), and equipment grounding lugs. See CAD drawings of the switch to verify the UL listed short circuit current rating or the enclosed safety switch catalog. UL Listed.

Table 3.21: Fiberglass Reinforced Polyester Enclosures NEMA Type 4X 3 Pole 600 Vac, 600 Vdc

Amperes	Cat. No.	Solid Neutral Assembly Kit	Class R Fuse Kits	Electrical Interlock Kits Field-Installed Cat. No.		Line Side Barriers Factory Included ^[17]	Horsepower Ratings— 3Ø					Hubs ^[20]
			Cat. No.	1 NO/1 NC Contacts	2 NO/2 NC Contacts		480 Vac ^[21]		600 Vac ^[21]		600 Vdc ^[22]	
							Std.	Max.	Std.	Max.	Max.	
Fusible—3P, 600 Vac, 600 Vdc												
30	H361DF	SN03	RFK06	9999TC10	9999TC20	Factory Included	5	15	7-1/2	20	15	3/4
60	H362DF	SN03	RFK06H	9999TC10	9999TC20	Factory Included	15	30	15	50	30	1-1/4
100	H363DF	SN0610	RFK10	9999TC10	9999TC20	Factory Included	25	60	30	75	50	2
200	H364DF	—	HRK1020	9999R8	9999R9	Factory Included	50	125	60	150	50	2-1/2
Non-Fusible—3P, 600 Vac, 600 Vdc												
30	HU361DF	SN03	—	9999TC10	9999TC20	Factory Included	—	20	—	30	15	3/4
60	HU362DF	SN03	—	9999TC10	9999TC20	Factory Included	—	50	—	60	30	1-1/4
100	HU363DF	SN0610	—	9999TC10	9999TC20	Factory Included	—	75	—	75	50	2
200	HU364DF	—	—	9999R8	9999R9	Factory Included	—	125	—	150	50	2-1/2

^[17] Factory included to protect against inadvertent contact with live parts per UL 869A and NEC service entrance barrier requirements.

^[18] Std.—Using fast acting, one time fuses. Max.—Using dual element time delay fuses.

^[19] For switching dc use two switching poles.

^[20] Two hubs and hub drilling template are provided for field installation.

^[21] Std.—Using fast acting, one time fuses. Max.—Using dual element time delay fuses.

^[22] For switching dc use two switching poles.

Krydon™ Enclosures—NEMA Type 4X

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. See CAD drawing of the switch to verify the UL listed short circuit current rating or the enclosed safety switch catalog. UL Listed.

Table 3.22: Krydon™ Enclosures — NEMA Type 4X 3 Pole 600 Vac, 600 Vdc

Amperes	Cat. No.	Solid Neutral Assembly Kit	Class R Fuse Kits	Electrical Interlock Kits Field-Installed Cat. No.		Line Side Barriers Factory Included ^[23]	Horsepower Ratings—3Ø					Hubs ^[24]
			Cat. No.	1 NO/1 NC Contact	2 NO/2 NC Contacts		480 Vac ^[25]		600 Vac ^[25]		600 Vdc ^[26]	
							Std.	Max.	Std.	Max.	Max.	
Fusible—3P, 600 Vac, 600 Vdc												
30	H361DX	H60SN	RFK06	9999TC10	9999TC20	Factory Included	5	15	7-1/2	20	15	3/4
60	H362DX	H60SN	RFK06H	9999TC10	9999TC20	Factory Included	15	30	15	50	30	1-1/4
100	H363DX	SN0610	RFK10	9999TC10	9999TC20	Factory Included	25	60	30	75	50	2
Non-Fusible—3P, 600 Vac, 600 Vdc												
30	HU361DX	H60SN	—	9999TC10	9999TC20	Factory Included	—	20	—	30	15	3/4
60	HU362DX	H60SN	—	9999TC10	9999TC20	Factory Included	—	50	—	60	30	1-1/4
100	HU363DX	SN0610	—	9999TC10	9999TC20	Factory Included	—	75	—	75	50	2

[23] Factory included to protect against inadvertent contact with live parts per UL 869A and NEC service entrance barrier requirements.

[24] Two hubs and hub drilling template are provided for field installation.

[25] Std.—Using fast acting one time fuses. Max.—Using dual element time delay fuses.

[26] For switching dc, use two outside switching poles.

Square D by Schneider Electric brand heavy duty safety switches are UL listed for use with the following accessories:

Rainproof Bolt-On Hubs



- UL Listed for indoor or rainproof applications
- Suitable for use with conduit having ANSI standard taper pipe thread
- NEMA 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
- NEMA 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 3.23: Rainproof Bolt-On Hubs [27]

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

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

Table 3.24: Water Resistant Hubs [28]

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	—	—	—	—

Electrical Interlock Kits

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. See supplemental digest section 2 for contact ratings. UL Listed for factory or field installation. For factory installation catalog numbers available on Type 12 or 4X enclosures use the product configurator.



EIK2 Electrical Interlock Kit

Table 3.25: Electrical Interlock Kit [29] [30]

Switch Amperes Rating	Series Number [31]	Electrical Interlock Kit Cat. No. [32]
30	F5–F6	EIK031
60	F5–F6	EIK032
60 (600 V)	F5–F6	EIK1
60 (240 V)	F5–F6	EIK2
100–200	F5–F6	EIK031
30–100 Receptacle Switches	F5–F7	EIK032
30–200 Four- and Six-Pole Switches	F5–F6	EIK1
400–1200	E4–E5	EIK2
		EIK40601
		EIK40602

Table 3.26: Electrical Interlock Contact Ratings [33]

Interlock Type	AC 50 or 60Hz				DC		
	Volts	Make	Break	Cont.	Volts	Make / Break	Cont.
1 N. O. / 1 N. C. Contact (-1 Suffix [34])	120	40.00 A	15.00 A	15.00 A	115	0.50 A	15.00 A
	240	20.00 A	10.00 A	15.00 A	230	0.25 A	15.00 A
2 N. O. / 2 N. C. Contacts (-2 Suffix [35])	120	30.00 A	3.00 A	10.00 A	115	1.00 A	10.00 A
	240	15.00 A	1.5 A	10.00 A	230	0.30 A	10.00 A

[27] Gaskets are provided on 3 in. and larger hubs.

[28] Gaskets are provided.

[29] For series not shown in table refer to the switch wiring diagram.

[30] Electrical interlocks for NEMA Type 4X fiberglass reinforced polyester and Krydon™ see Table 3.21 and Table 3.22 respectively.

[31] See page 3-21 and page 3-22 for safety switch series.

[32] 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.

[33] Single-pole single-throw interlock kits are rated 1/2 hp at 110 and 220 Vac.

[34] -1 Suffix uses a 9007A01 limit switch.

[35] -2 Suffix uses a 9007C03 limit switch.

Class R Fuse Kits

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

Table 3.27: 240 Vac — Class R Fuse Kits [36]

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

Table 3.28: 600 Vac — Class R Fuse Kits [36] [37]

Amperes	Series Number	Class R Fuse Kit Cat. No.
30 [38]	F5-F6	RFK03H
30 A Receptacle Switches	F7	RFK06
30 A Four-Pole Switches	F5-F6	RFK06
60	F5-F7	RFK06H
100	F5-F7	RFK10
200	F5-F6	HRK1020
400-600	E4-E5	HRK4060

Line Side Barrier Kit

The field instable line side barrier kits are required to meet National Electric Code (NFPA 70) for service entrance applications. Barrier kits protect against inadvertent contact with line side, un-insulated, ungrounded or service terminal live parts.

Table 3.29: Line Side Barrier Kit

Catalog	Description	Blades / Fuses	Safety Switch Application
LSBD202	Line Side Barriers for General Duty and Heavy Duty	2 or 3	240 V — 30 A 240 V — 60 A
LSBC02	Line Side Barriers for General Duty and Heavy Duty	2 or 3	240 V — 100 A 600 V — 60 A 600 V — 100 A
LSBD602	Line Side Barriers for General Duty and Heavy Duty	2 or 3	600 V — 30 A
LSBE202	Line Side Barriers for General Duty and Heavy Duty	2	240 V — 200 A
LSBE203	Line Side Barriers for General Duty and Heavy Duty	3	240 V — 200 A
LSBE603	Line Side Barriers for General Duty and Heavy Duty	3	600 V — 200 A
LSBG202	Line Side Barriers for Heavy Duty	2	240 V — 400 A 240 V — 600 A
LSBG203	Line Side Barriers for Heavy Duty	3	240 V — 400 A 240 V — 600 A
LSBG602	Line Side Barriers for Heavy Duty	2 or 3	600 V — 400 A 600 V — 600 A
LSBI02	Line Side Barriers for General Duty	2 or 3	240 V — 400 A 240 V — 600 A 240 V — 800 A
LSBF202	Line Side Barriers for Heavy Duty	2	240 V — 800 A 240 V — 1200 A
LSBF203	Line Side Barriers for Heavy Duty	3	240 V — 800 A 240 V — 1200 A
LSBF602	Line Side Barriers for Heavy Duty	2 or 3	600 V — 800 A 600 V — 1200 A

[36] For series not shown in the table, refer to the switch wiring diagram.

[37] Class R Fuse Kits for Fiberglass Reinforced Polyester enclosures and Krydon™ enclosures see Table 3, page 3-13 and Table 5, page 3-14 respectively.

[38] H361-2, H361-2A, H361-2AWK and H361-2RB use RFK06.

Internal Barrier Kits

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 3.30: Internal Barrier Kits

Cat. No.	Description	Blades / Fuses	Safety Switch Application
SS03 [39]	Barriers for Heavy Duty	2 or 3	240 / 600 V — 30 A 240 V — 60 A
SS06[40]	Barriers for Heavy Duty	2 or 3	600 Vac — 60 A
SS10 [40]	Barriers for Heavy Duty	2 or 3	240 V — 100 A 600 V — 100 A
QTY (1)SS20 QTY (2) 4056677550)	Barriers for Heavy Duty	2	240 V — 200 A
QTY (1)SS20[40] QTY (3) 4056677550[39]	Barriers for Heavy Duty	3	240 V — 200 A
SS20 [40]	Barriers for Heavy Duty	2 or 3	600 V — 200 A
SS4060LI	Barriers Line Side for Heavy Duty	2 or 3	240 V — 400 A 240 V — 600 A 600 V — 400 A 600 V — 600 A
SS4060LO [41]	Barriers Load Side for Heavy Duty	2 or 3	240 V — 400 A 240 V — 600 A 600 V — 400 A 600 V — 600 A
SS80120LI	Barriers Line Side for Heavy Duty	2 or 3	240 V — 800 A 240 V — 1200 A 600 V — 800 A 600 V — 1200 A
SS80120LO [41]	Barriers Load Side for Heavy Duty	2 or 3	240 V — 800 A 240 V — 1200 A 600 V — 800 A 600 V — 1200 A

Fuse Puller Kits



Fuse Puller Kits

Fuse Puller Kits are standard equipment on the following 30 A - 100 A switches: NEMA Type 12, Type 4/4X/5 stainless steel, Type 4X fiberglass reinforced polyester and KrydonTM.
Fuse Puller Kit available for field installation on Type 1 and Type 3R, 30 A – 100 A switches. One Fuse Puller Kit required for a 3 pole fusible 240 V or 600 V heavy duty switch. Fuse Puller Kits can be field installed on switches manufactured since February 1980.

Amperes	Series Number [42]	Fuse Puller Kit Cat. No.
30	F5–F7	FPK03 [43]
60	F5–F7 (600 V)	FPK0610
60	F5 (240 V)	FPK03
100	F5–F7	FPK0610

Solid Neutral Assembly Kits

Table 3.31: Solid Neutral Assembly Kits [44] [45] [46] [47]

Amperes	Series Number [48]	Standard Neutral Kit Cat. No.	Terminal Data AWG/kcmil	Optional Copper Only Neutral Kit Cat. No.	Terminal Data AWG/kcmil
30	F5–F6	SN03 [49]	(2) 14-3 Al/Cu plus (1) 14-3 Al/Cu Svc Ground	SN03C [49]	(2) 14-6 Cu plus (1) 14-6 Cu Svc Ground
60	F5–F6, (600 V)	SN0610	(2) 14-1/0 Al/Cu plus (2) 14-6 Al/Cu Svc Ground	SN0610C	(2) 14-1/0 Cu plus (2) 14-6 Cu Svc Ground
	F5–F6 (240 V)	SN03	(2) 14-3 Al/Cu plus (1) 14-3 Al/Cu Svc Ground	SN03C	(2) 14-1/0 Cu plus (2) 14-6 Cu Svc Ground
100	F5–F6,	SN0610	(2) 14-1/0 Al/Cu plus (2) 14-6 Al/Cu Svc Ground	SN0610C	(2) 14-1/0 Cu plus (2) 14-6 Cu Svc Ground
200 [50]	F5–F6	SN20A	(2) 6-250 Al/Cu plus (1) 14-10 Al/Cu Svc Ground	SN20C	(2) 6-250 Cu plus (1) 14-1/0 Cu Svc Ground
400 and 600	E4–E5	H600SN	(4) 1-750 Al/Cu plus (1) 4-300 Al/Cu Svc Ground	H600SNC	(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	–	–

[39] Can only be applied to F series.

[40] Can only be applied to F series.

[41] Must buy line side also

[42] For series not shown in chart refer to the switch wiring diagram.

[43] 30 A 4 pole, H361-2 and H361-2RB Series F5, H361WA and H361WC Series F6 use FPK0610.

[44] For series not shown in chart refer to the switch wiring diagram.

[45] For solid Neutral Assembly Kits for KrydonTM enclosure see Table 3.22.

[46] For Solid Neutral Assembly Kits for Fiberglass Reinforced Polyester enclosures see Table 3.21.

[47] Neutrals cannot be installed in 4 or 6 pole switches or receptacle switches.

[48] See page 3-21 and page 3-22 for safety switch series.

[49] The following 30 A Series F5-F6 switches use SN0610 or SN0610C: H3612, H3612RB, H3612A, H3612AWK, HU3612, HU3612RB, HU3612A and HU3612AWK.

[50] For 200% neutral, order (2) SN20A Neutral Kits and (1) SN20NI Neutral Jumper Kit.

Equipment Grounding Kits

Equipment grounding kits are available for field installation.

Table 3.32: Equipment Grounding Kits and Terminal Data [51] [52]

Amperes	Series Number	Standard Cat. No.	Terminal Data AWG/kcmil	Optional Copper Only Cat. No.	Terminal Data AWG/kcmil
30	F5–F6	GTK03 [53]	(2) 14-4 Cu or (2) 12-4 Al or (4) 14-12 Cu or (4) 12-10 Al	GTK03C [53] [54]	(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 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 [55]	(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

Description	Cat. No.
12 oz. Aerosol Paint Can, Square D ANSI-49 Gray Touch-Up Paint	PK49SP
NOTE: Standard package quantity is 6 cans.	

Lock OFF / Lock ON

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.

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.

Table 3.33: Lock-Off Guard Kits

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



Optional Lock-OFF Guard Kit Installed

Key Interlock Systems

Key Interlock Systems

Factory installed only on heavy duty safety switches and double throw safety switches, from 30 amp to 1200 amp, Type 12 and 304 stainless steel 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. UL Listed.

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. Please see Supplemental Digest Section 2 for further information.

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



Key Interlock System

Cover Viewing Window

Standard on 30 to 200 amp Single Throw Heavy Duty Safety Switches. Available as factory option on Type 12 and Type 4X - 304 Stainless Steel 400 to 1200 Amp Solutions Single Throw Heavy Duty Safety Switches. The units with viewing windows as standard can be obtained without window on Type 12 and Type 4X solutions.

[51] For series not shown in table refer to the switch wiring diagram.

[52] Equipment Ground Kits (Al/Cu) are factory installed standard in 30-200 A Series F NEMA Type 4/4X/5 (stainless steel), 12. Equipment Ground Kits are standard factory installed on receptacle switches and Series F 30-200 A, 4 and 6 pole switches.

[53] H2212AWK accepts GTK03 or GTK03C. H3612A or AWK accepts GTK03C. H3612 and H3612RB accepts GTK0610 HU3612AWK accepts GTK03C. HU3612A accepts GTK0610C. HU3612RB accepts GTK0610 or GTK0610C.

[54] Optional copper equipment grounding kit for the 4 and 6 pole 30 A F Series: H461DS, H461AWK, HU461DS, HU661DS and HU661AWK accepts GTK03C HU461AWK accepts GTK0610C.

[55] Two required if equipment grounding conductors are run in parallel.

Voltage Monitors



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.

- UL Listed
- Factory installed only
- Order the voltage monitors by adding the appropriate suffix shown in the table below to the switch catalog number
- Not available on NEMA Type 7 and 9 and NEMA Type 4X Fiberglass and KrydonTM switches

Table 3.34: Voltage Monitors [56] [57] [58]

Description	Suffix [59]
Line Side Monitor	SI
Load Side Monitor	LI
Line and Load Side Monitors	LI2

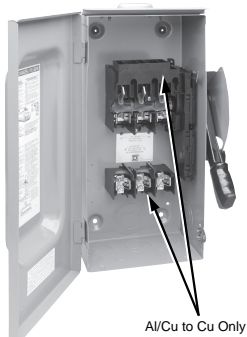
Copper Lug Kits

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

- UL Listed
- UL Marine Listed
 - UL Marine listing is applicable ONLY to 30 - 200 A, NEMA Type 12/3R, NEMA Type 12K and NEMA Type 4/4X/5 stainless steel, safety switches
 - When copper only lugs kits are factory installed the switch will bear the UL Marine mark and be suitable for use on vessels over 65 feet long
 - When the copper only lugs kits are field installed the switch will not bear the UL Marine mark and would not be suitable for use on vessels over 65 feet long
- Not available for use on NEMA Type 4X Fiberglass, Krydon or NEMA Type 7 and 9 switches
- For field installation, order copper lug kits. See Table below
- For factory installation of copper lugs, add the suffix SLC to the standard catalog number

Table 3.35: Copper Lug Kits [60]

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	—	—



[56] Available on 30–1200 A Heavy Duty Safety Switches.

[57] Order 600 Vac Heavy Duty Safety Switch for 30–60 A 240 Vac applications.

[58] Available on 30–200 A Double Throw Safety Switches. Two and three-pole, 200 A Type 3R switches are not available with these voltage monitors.

[59] In addition to the suffix shown in the table above, a 3 must be added to the switch catalog number for 30 and 60 A switches, i.e. H361AWK becomes H3613AWKLI. 30 and 60 A switches require 100 A enclosure accessories. Double Throw Safety Switches are exempt from this requirement.

[60] One kit includes line/load lugs for a 3-pole switch. CL0306F, CL10F and CL20F includes six lugs. CL40F and CL60F includes twelve lugs.

Load Side Double Lug Kits

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 listed on switch's wiring diagram as an accessory, available for Load Connections only. Lug can only be field installed on load side terminals.

Table 3.36: Double Lug Kits

Amperes	Cat. No. [61]	Lug Wire Range per Phase and Neutral AWG/kcmil	Wire Range Wire Bending Space per NEC Table 312.6 AWG/kcmil
200	AL20DTF	(2) 6–300 Cu/Al	(2) 6–250 Cu/Al

Compression Lug Kits — 800 A and 1200 A Safety Switches

- UL Listed.
- 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 Table below)

Table 3.37: 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 3.38: Terminal Lug Data [62]

Rating (A)	Wires Per Phase and Neutral	Wire Range Wire Bending Space per NEC Table 312.6 AWG/kcmil	Lug Wire Range AWG/kcmil	Optional [63] Compression Lug Field-Installed	Optional Copper Only [63] Compression Lug Field-Installed [64]
30	1	12–6 (Al) or 14–6 (Cu)	12–2 (Al) or 14–2 (Cu)	C10–14, [65] D8–14–SK, or E6–14	—
	2	12–10 (Al) or 14–10 (Cu)			
60 [66]	1	12–3 (Al) or 14–3 (Cu)	12–2 (Al) or 14–2 (Cu)	C10–14, [65] D8–14–SK, or E6–14	—
100 [67]	1	12–1/0 (Al) or 14–1/0 (Cu)	12–1/0 (Al) or 14–1/0 (Cu)	VCEL02114S1	VCEL02114S1
200 [68]	1	6–250 (Al/Cu)	6–300 (Al/Cu)	VCEL030516H1	VCEL030516H1
400 [69]	1 or 2	1/0–750 (Al/Cu) or 1/0–300 (Al/Cu)	1/0–750 (Al/Cu) or 1/0–300 (Al/Cu)	VCEL07512H1 or VCEL030516H1 [70] and VCEL05012H1	VCEL07512H1 or VCEL030516H1 [71] and VCEL05012H1
	2	3/0–500 (Al/Cu)	3/0–500 (Al/Cu)	VCEL05012H1	VCEL05012H1
800	3	3/0–750 (Al/Cu)	3/0–750 (Al/Cu)	H8LKE2 [72]	—
1200	4	3/0–750 (Al/Cu)	3/0–750 (Al/Cu)	H12LKE2 [72]	—

Table 3.39: Conduit Provisions

Amperes	Top and Bottom Endwall
	NEMA Type 4X Fiberglass Reinforced Polyester and Krydon [73]
30	3/4 in.
60	1-1/4 in.
100	2 in.
200	2-1/2 in.

[61] Kit contains 3 lugs. Order two kits for line and load lugs.

[62] 30–100 A switches suitable for 60°C or 75°C conductors. 200–1200 A switches suitable for 75°C conductors.

[63] Hubbell Versa-Crimp™ unless otherwise noted.

[64] For NEMA Type 1, 12/3R, 12K and 4/4X/5 stainless steel switches only.

[65] Order from Thomas and Betts.

[66] H60XFA and H60XFA1212 — use 75°C copper wire only. #6 AWG copper wire required for 60 A rating.

[67] H100XFA and H100XFA1212 — use 75°C copper wire only. #3 AWG copper wire required for 100 A rating.

[68] 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).

[69] Maximum wire bending space allows for (1) 600 kcmil or (2) 300 kcmil Al/Cu on NEMA Type 4/4X/5 stainless steel and NEMA Type 12 switches.

[70] Order two PK516KN mounting kits when installing VCEL030516H1 lugs. Only one kit is required on 2 pole switches. PK516KN consists of (4) 5/16-18 Keps Nuts.

[71] Order two PK516KN mounting kits when installing VCEL030516H1 or VCEL030516H1 lugs. Only one kit is required on 2 pole switches. PK516KN consists of (4) 5/16-18 Keps Nuts.

[72] For 800 and 1200 A compression lug kits see Table 3.37 for additional information.

[73] Hubs and hub drilling templates are provided for field-installation.

VisiPacT Type 1 and 3R

See [Table 3.38 Terminal Lug Data](#), page 3-20 for terminal lug data for the series switches listed in the dimension table below.

Table 3.40: 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
VH221N	F	14.57	370	6.36	162	5.11	130	7.48	190	VH221NRB	F	14.84	377	6.63	168	5.05	128	7.60	193
VH321N	F	14.57	370	6.36	162	5.11	130	7.48	190	VH321NRB	F	14.84	377	6.63	168	5.05	128	7.60	193
VH361	F	14.57	370	6.36	162	5.11	130	7.48	190	VH361RB	F	14.84	377	6.63	168	5.05	128	7.60	193
VH361N	F	14.57	370	6.36	162	5.11	130	7.48	190	VH361NRB	F	14.84	377	6.63	168	5.05	128	7.60	193
VHU361	F	14.57	370	6.36	162	5.11	130	7.48	190	VHU361RB	F	14.84	377	6.63	168	5.05	128	7.60	193
VH222N	F	14.57	370	6.36	162	5.11	130	7.48	190	VH222NRB	F	14.84	377	6.63	168	5.05	128	7.60	193
VH322N	F	14.57	370	6.36	162	5.11	130	7.48	190	VH322NRB	F	14.84	377	6.63	168	5.05	128	7.60	193
VH362	F	18.18	462	8.91	226	7.04	179	10.26	261	VH362RB	F	18.40	467	9.08	231	6.98	177	10.39	264
VH362N	F	18.18	462	8.91	226	7.04	179	10.26	261	VH362NRB	F	18.40	467	9.08	231	6.98	177	10.39	264
VHU362	F	18.18	462	8.91	226	7.04	179	10.26	261	VHU362RB	F	18.40	467	9.08	231	6.98	177	10.39	264
VH223N	F	21.84	555	8.91	226	7.04	179	10.28	261	VH223NRB	F	22.10	561	9.08	231	7.02	178	10.42	265
VH323N	F	21.84	555	8.91	226	7.04	179	10.28	261	VH323NRB	F	22.10	561	9.08	231	7.02	178	10.42	265
VH363	F	21.84	555	8.91	226	7.04	179	10.28	261	VH363RB	F	22.10	561	9.08	231	7.02	178	10.42	265
VH363N	F	21.84	555	8.91	226	7.04	179	10.28	261	VH363NRB	F	22.10	561	9.08	231	7.02	178	10.42	265
VHU363	F	21.84	555	8.91	226	7.04	179	10.28	261	VHU363RB	F	22.10	561	9.08	231	7.02	178	10.42	265
VH224N	F	28.00	711	16.61	422	8.51	216	18.55	471	VH224NRB	F	28.94	735	17.02	432	8.51	216	18.36	466
VH324N	F	28.00	711	16.61	422	8.51	216	18.55	471	VH324NRB	F	28.94	735	17.02	432	8.51	216	18.36	466
VH364	F	28.00	711	16.61	422	8.51	216	18.55	471	VH364RB	F	28.94	735	17.02	432	8.51	216	18.36	466
VH364N	F	28.00	711	16.61	422	8.51	216	18.55	471	VH364NRB	F	28.94	735	17.02	432	8.51	216	18.36	466
VHU364	F	28.00	711	16.61	422	8.51	216	18.55	471	VHU364RB	F	28.94	735	17.02	432	8.51	216	18.36	466

NEMA Type 1 and 3R

See [Table 3.38 Terminal Lug Data](#), page 3-20 for terminal lug data for the series switches listed in the dimension table below.

Table 3.41: 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	H327NR	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H225N	E4	50.25	1276	27.63	702	10.13	257	27.63	702	H328	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H225NR	E5	50.31	1278	27.76	705	9.53	242	27.88	708	H328N	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H225R	E5	50.31	1278	27.76	705	9.53	242	27.88	708	H328R	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H226	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
H226N	E4	50.25	1276	27.63	702	10.13	257	27.63	702	H365	E4	50.25	1276	27.63	702	10.13	257	27.63	702
H226NR	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
H226R	E5	50.31	1278	27.76	705	9.53	242	27.88	708	H365R	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	H365NR	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	H366	E4	50.25	1276	27.63	702	10.13	257	27.63	702
H227NR	E4	69.13	1756	36.62	930	17.75	451	36.62	930	H366N	E4	50.25	1276	27.63	702	10.13	257	27.63	702
H227R	E4	69.13	1756	36.62	930	17.75	451	36.62	930	H366NR	E5	50.31	1278	27.76	705	9.53	242	27.88	708
H228	E4	69.13	1756	36.62	930	17.75	451	36.62	930	H366R	E5	50.31	1278	27.76	705	9.53	242	27.88	708
H228N	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
H228NR	E4	69.13	1756	36.62	930	17.75	451	36.62	930	H367N	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	H367NR	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	H367R	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	H368	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H266	E4	50.25	1276	27.63	702	10.13	257	27.63	702	H368N	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H266R	E5	50.31	1278	27.76	705	9.53	242	27.88	708	H368NR	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H267	E4	69.13	1756	36.62	930	17.75	451	36.62	930	H368R	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H267R	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU265	E4	50.25	1276	27.63	702	10.13	257	27.63	702
H268	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU265R	E5	50.31	1278	27.76	705	9.53	242	27.88	708
H268R	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU266	E4	50.25	1276	27.63	702	10.13	257	27.63	702
H321N	F5	14.60	371	6.50	165	4.88	124	7.55	192	HU266R	E5	50.31	1278	27.76	705	9.53	242	27.88	708
H321NRB	F5	14.88	378	6.63	168	4.88	124	7.55	192	HU267	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H322N	F5	14.60	371	6.50	165	4.88	124	7.55	192	HU267R	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H322NRB	F5	14.88	378	6.63	168	4.88	124	7.55	192	HU268	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H323N	F5	21.25	540	8.50	216	6.38	162	10.50	267	HU268R	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H323NRB	F5	21.25	540	8.50	216	6.38	162	10.50	267	HU365	E4	50.25	1276	27.63	702	10.13	257	27.63	702
H324N	F5	29.00	737	17.13	435	8.25	210	18.50	470	HU365R	E5	50.31	1278	27.76	705	9.53	242	27.88	708
H324NRB	F5	29.25	743	17.25	438	8.50	216	18.63	473	HU366	E4	50.25	1276	27.63	702	10.13	257	27.63	702
H325	E4	50.25	1276	27.88	708	10.13	257	27.88	708	HU366R	E5	50.31	1278	27.76	705	9.53	242	27.88	708
H325N	E4	50.25	1276	27.88	708	10.13	257	27.88	708	HU367	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H325R	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
H325NR	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
H326	E4	50.25	1276	27.63	702	10.13	257	27.63	702	HU368R	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H326N	E4	50.25	1276	27.63	702	10.13	257	27.63	702	HU461	F5	20.50	521	14.75	375	6.85	174	16.13	410
H326R	E5	50.31	1278	27.76	705	9.53	242	27.88	708	HU462	F5	20.50	521	14.75	375	6.85	174	16.13	410
H326NR	E5	50.31	1278	27.76	705	9.53	242	27.88	708	HU463	F5	20.50	521	14.75	375	6.85	174	16.13	410
H327	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU464	F5	29.00	737	23.25	591	8.75	222	24.88	632
H327N	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
H327R	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

VisiPacT Type 4X and 12

See Table 3.38 Terminal Lug Data, page 3-20 for terminal lug data for the series switches listed in the dimension table below.

Table 3.42: 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	F	14.93	379	7.91	201	5.40	137	8.40	213	VH364SSGL	F	28.90	734	17.47	444	8.94	227	19.27	489
VH221NDSGL	F	14.93	379	7.91	201	5.40	137	8.40	213	VHU364SSGL	F	28.90	734	17.47	444	8.94	227	19.27	489
VH321DSGL	F	14.93	379	7.91	201	5.40	137	8.40	213	VH221AWKGL	F	14.57	370	6.48	165	5.25	133	7.67	195
VH321NDSGL	F	14.93	379	7.91	201	5.40	137	8.40	213	VH221NAWKGL	F	14.57	370	6.48	165	5.25	133	7.67	195
VH361DSGL	F	14.93	379	7.91	201	5.40	137	8.40	213	VH321AWKGL	F	14.57	370	6.48	165	5.25	133	7.67	195
VH361NDSGL	F	14.93	379	7.91	201	5.40	137	8.40	213	VH321NAWKGL	F	14.57	370	6.48	165	5.25	133	7.67	195
VHU361DSGL	F	14.93	379	7.91	201	5.40	137	8.40	213	VH361AWKGL	F	14.57	370	6.48	165	5.25	133	7.67	195
VHU361SSGL	F	14.93	379	7.91	201	5.40	137	8.40	213	VHU361NAWKGL	F	14.57	370	6.48	165	5.25	133	7.67	195
VH222DSGL	F	14.93	379	7.91	201	5.40	137	8.40	213	VHU361NAWKGL	F	14.57	370	6.48	165	5.25	133	7.67	195
VH222NDSGL	F	14.93	379	7.91	201	5.40	137	8.40	213	VH222AWKGL	F	14.57	370	6.48	165	5.25	133	7.67	195
VH322DSGL	F	14.93	379	7.91	201	5.40	137	8.40	213	VH222NAWKGL	F	14.57	370	6.48	165	5.25	133	7.67	195
VH322NDSGL	F	14.93	379	7.91	201	5.40	137	8.40	213	VH322AWKGL	F	14.57	370	6.48	165	5.25	133	7.67	195
VH362DSGL	F	16.93	430	8.90	226	7.26	184	10.71	272	VH322NAWKGL	F	14.57	370	6.48	165	5.25	133	7.67	195
VH362NDSGL	F	16.93	430	8.90	226	7.26	184	10.71	272	VH362AWKGL	F	16.53	420	8.91	226	7.17	182	10.45	265
VU362DSGL	F	16.93	430	8.90	226	7.26	184	10.71	272	VH362NAWKGL	F	16.53	420	8.91	226	7.17	182	10.45	265
VU362SSGL	F	16.93	430	8.90	226	7.26	184	10.71	272	VHU362AWKGL	F	16.53	420	8.91	226	7.17	182	10.45	265
VHU362SSGL	F	16.93	430	8.90	226	7.26	184	10.71	272	VHU362NAWKGL	F	16.53	420	8.91	226	7.17	182	10.45	265
VH223DSGL	F	20.73	527	9.34	237	7.20	183	11.15	283	VH223AWKGL	F	20.49	520	8.92	227	7.15	182	10.44	265
VH223NDSGL	F	20.73	527	9.34	237	7.20	183	11.15	283	VH223NAWKGL	F	20.49	520	8.92	227	7.15	182	10.44	265
VH323DSGL	F	20.73	527	9.34	237	7.20	183	11.15	283	VH323AWKGL	F	20.49	520	8.92	227	7.15	182	10.44	265
VH323NDSGL	F	20.73	527	9.34	237	7.20	183	11.15	283	VH323NAWKGL	F	20.49	520	8.92	227	7.15	182	10.44	265
VH363DSGL	F	20.73	527	9.34	237	7.20	183	11.15	283	VH363AWKGL	F	20.49	520	8.92	227	7.15	182	10.44	265
VH363NDSGL	F	20.73	527	9.34	237	7.20	183	11.15	283	VH363NAWKGL	F	20.49	520	8.92	227	7.15	182	10.44	265
VU363DSGL	F	20.73	527	9.34	237	7.20	183	11.15	283	VHU363AWKGL	F	20.49	520	8.92	227	7.15	182	10.44	265
VH363SSGL	F	20.73	527	9.34	237	7.20	183	11.15	283	VHU363NAWKGL	F	20.49	520	8.92	227	7.15	182	10.44	265
VHU363SSGL	F	20.73	527	9.34	237	7.20	183	11.15	283	VH224AWKGL	F	28.93	735	17.01	432	9.02	229	18.58	472
VH224DSGL	F	28.90	734	17.47	444	8.94	227	19.27	489	VH224NAWKGL	F	28.93	735	17.01	432	9.02	229	18.58	472
VH224NDSGL	F	28.90	734	17.47	444	8.94	227	19.27	489	VH324AWKGL	F	28.93	735	17.01	432	9.02	229	18.58	472
VH324DSGL	F	28.90	734	17.47	444	8.94	227	19.27	489	VH324NAWKGL	F	28.93	735	17.01	432	9.02	229	18.58	472
VH324NDSGL	F	28.90	734	17.47	444	8.94	227	19.27	489	VH364AWKGL	F	28.93	735	17.01	432	9.02	229	18.58	472
VH364DSGL	F	28.90	734	17.47	444	8.94	227	19.27	489	VH364NAWKGL	F	28.93	735	17.01	432	9.02	229	18.58	472
VH364NDSGL	F	28.90	734	17.47	444	8.94	227	19.27	489	VHU364AWKGL	F	28.93	735	17.01	432	9.02	229	18.58	472
VU364DSGL	F	28.90	734	17.47	444	8.94	227	19.27	489	VHU364NAWKGL	F	28.93	735	17.01	432	9.02	229	18.58	472

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

See Table 3.38 Terminal Lug Data, page 3-20 for terminal lug data for the series switches listed in the dimension table below.

Table 3.43: 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
H225AWK	E4	46.25	1175	26.25	667	10.13	259	26.25	667	H461AWK	F6	20.50	521	14.75	375	6.80	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	20.50	521	14.75	375	6.80	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	20.50	521	14.75	375	6.80	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	29.00	737	23.25	591	8.75	222	24.88	632
H226NAWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667	H464DS	F6	29.00	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	32.50	826	10.13	259	32.50	826
H227NAWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930	H663AWK	F6	20.50	521	14.75	375	6.80	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	29.00	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	29.00	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	16.50	419	11.00	279	8.80	224	11.00	279
H268NAWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU361DX	F1	19.40	493	11.40	290	8.60	218	11.40	290
H325AWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU362DF	F1	16.50	419	11.00	279	8.80	224	11.00	279
H325DS	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU362DX	F1	19.40	493	11.40	290	8.60	218	11.40	290
H325NAWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU363DF	F1	24.80	630	13.70	348	12.00	305	13.70	348
H325NDS	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU363DX	F1	25.25	641	11.40	290	8.60	218	11.40	290
H326AWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU364DF	E1	31.30	795	26.30	668	11.80	300	26.30	668
H327AWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930	HU365AWK	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	HU365DS	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	HU366AWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667
H361DF	F1	16.50	419	11.00	279	8.80	224	11.00	279	HU366DS	E5	46.25	1175	26.25	667	10.13	259	26.25	667
H361DX	F1	19.40	493	11.40	290	8.60	218	11.40	290	HU366SS	E5	46.25	1175	26.25	667	10.13	259	26.25	667
H362DF	F1	16.50	419	11.00	279	8.80	224	11.00	279	HU367AWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H362DX	F1	19.40	493	11.40	290	8.60	218	11.40	290	HU368AWK	E4	69.13	1756	36.62	930	17.75	451	36.62	930
H363DF	F1	24.80	630	13.70	348	12.00	305	13.70	348	HU461AWK	F6	20.50	521	14.75	375	6.80	173	16.13	411
H363DX	F1	25.25	641	11.40	290	8.60	218	11.40	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	6.80	173	16.13	410
H364DF	E1	31.30	795	26.30	668	11.80	300	26.30	668	HU462DS	F6	20.82	529	15.08	383	6.97	177	16.85	428
H365AWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU463AWK	F6	20.50	521	14.75	375	6.80	173	16.13	410
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	29.00	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	29.00	737	23.75	603	8.88	226	25.25	641
H366AWK	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU465AWK	E5	46.25	1175	32.50	826	10.13	259	32.50	826

Table 3.43 Approximate Dimensions (cont'd.)

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
H366DS	E5	46.25	1175	26.25	667	10.13	259	26.25	667	HU661AWK	F6	20.50	521	14.75	375	6.80	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	20.50	521	14.75	375	6.80	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	20.50	521	14.75	375	6.80	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	29.00	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	29.00	737	23.75	603	8.88	226	25.25	641



30–100 A DT, DTU (Series F)
NEMA Type 1



82,000 Line
NEMA Type 1

30–100 A Types DT, DTU (Series F)

- Fusible (DT) and non-fusible (DTU) switches available
- Manually-operated switch suitable for use in accordance with article 702 of the NEC, ANSI/NFPA 70
- Standards: UL 98, Type KS1, CSA, and NOM
- Modular design—switch handle, lock-plate, switch mechanism; line and load bases are field replaceable
- UL Listed short circuit current ratings up to 200 kA (using with (fusible) or (non-fusible) Class R, J, or T fuses—see table for rating)
- Load make/break rated
- Horsepower rated
- Dual cover interlock
- May be padlocked ON (I) or OFF (O)
- Lock-off accepts up to three padlocks
- 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 (2P and 3P switches)
- UL Listed as suitable for use as service equipment
- 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)

- Non-fusible
- Designed for manual transfer of one load between two power sources
- UL Listed switches are suitable for use in accordance with Article 702 of the National Electrical Code, ANSI / NFPA 70
- 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
- UL Listed as suitable for use as service equipment
- Horsepower rated only as footnoted

Field-Installable Accessories

- Neutral
- Electrical Interlock
- Grounding Terminals

Double-Throw Safety Switches

Table 3.44: 240 V Double Throw Safety Switches

System	Amperes	Current Series	NEMA Type 1	NEMA Type 3R	NEMA Type 4, 4X, 5 304 Stainless Steel	NEMA Type 12 Gasketed	Horsepower Ratings [1][2]				250 Vdc[3]
			Cat. No.	Cat. No.	Cat. No.	Cat. No.	240 Vac				
							Std.	Max.			
Fusible—2P, 240 Vac—250 Vdc											
	100	F	DT223	DT223RB	—	—	7.5	15 [4]	15	30 [4]	20
Fusible—3P, 240 Vac—250 Vdc											
	30	F	DT321	DT321RB	—	—	1.5 [5]	3 [4]	3 [5]	7.5 [4]	5
	60	F	DT322	DT322RB	—	—	3 [5]	7.5 [4]	10 [5]	15 [4]	10
	100	F	DT323	DT323RB	—	—	7.5 [5]	15 [4]	15 [5]	30 [4]	20
Non-Fusible—2P, 240 Vac—250 Vdc											
	60	F	DTU222	—	—	—	—	—	10	—	10 [6]
	100	F	DTU223	DTU223RB	—	—	—	—	15	—	20 [6]
	30	T4	92251 [7]	—	—	—	—	—	—	—	—
	200	E	82254	DTU224NRB [7] [8]	—	H82254	15	—	—	—	—
	400	A	DTU225	DTU225R	—	—	—	—	—	—	50
Non-Fusible—3P, 240 Vac—250 Vdc											
	30	F	DTU321	—	—	—	—	3 [4]	5 [5]	10 [4]	5 [6]
	60	F	DTU322	—	—	—	—	—	10 [5]	15 [4]	10 [6]
	100	F	DTU323	DTU323RB	—	—	—	—	15 [5]	30 [4]	20 [6]
	30	T4	92351 [7]	—	—	—	—	—	—	—	—
	200	E	82354 [7]	—	—	H82354 [7]	—	15	—	—	—
	200	E	DTU324N [7] [8]	DTU324NRB [7] [8]	—	—	—	15	—	—	—
	400	A	DTU325	DTU325R	—	—	—	125	—	—	50
	600	A	DTU326	DTU326R	—	—	—	125	—	—	50
Non-Fusible—4P, 240 Vac											
	30	T4	92451 [7]	—	—	—	—	—	—	—	—
	200	E	82454 [9]	82454R [9]	—	H82454 [10]	—	15 [10]	—	—	—
	600	A	DTU426	DTU426R	—	—	—	125	—	—	50

[1] The starting current of motors or more than standard horsepower may require the use of fuses with appropriate time delay characteristics.

[2] Std.—Using fast acting one time fuses. Max.—Using dual element time delay fuses.

[3] For switching dc, use two switching poles.

[4] If used on corner grounded delta systems, install neutral and use outer switching pole for ungrounded conductors. See data bulletin 2700DB0202 for additional information.

[5] Use outer switching poles.

[6] Maximum rating.

[7] 240 Vac only. Not Vdc rated.

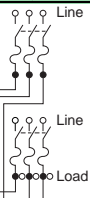
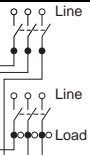

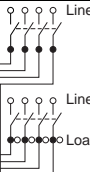

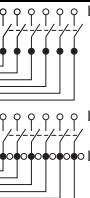
[8] Neutral included with device.

[9] 240 Vac, 250 Vdc.

[10] Hp rating applies only to H82454.

Double Throw Safety Switches

Table 3.45: 600 V Double Throw Safety Switches

System	Amperes	Current Series	NEMA Type 1	NEMA Type 3R	NEMA Type 4, 4X, 5 304 Stainless Steel	NEMA Type 12 Gasketed	Horsepower Ratings [11][12]								
			Cat. No.	Cat. No.	Cat. No.	Cat. No.	240 Vac		480 Vac		600 Vac		Vdc [13]		
							Std	Max	Std	Max	Std	Max	250	600	
Fusible 3P, 600 Vac—600 Vdc															
	30	F	DT361	DT361RB	—	—	—	—	5 [15]	15 [15]	7.5	20	5	15 [16]	
	60	F	DT362	DT362RB	—	—	—	—	15 [17]	30 [17]	15	50	—	30 [18]	
	100	F	DT363	DT363RB	—	—	—	—	25 [19]	60 [19]	30	75	—	50 [20]	
Non-Fusible 3P, 600 Vac—600 Vdc								1Ø [13] [21]	3Ø [14] [21]	1Ø [13] [21]	3Ø [14] [21]	1Ø [13] [21]	3Ø [21]		
	30	F	DTU361	DTU361RB	—	—	5	10	7.5	20	10	30	5	15	
	60	F	DTU362	DTU362RB	DTU362DS	DTU362AWK [22]	10	20 [23]	25	50 [24]	30	60 [25]	10	30	
	100	F	DTU363	DTU363RB	DTU363DS	DTU363AWK [22]	20	40 [26]	40	75 [26]	40	100 [26]	20	50	
	200	E	82344 [27]	82344RB [27]	82344DS [27] [28]	H82344 [27]	—	—	—	15 [29]	—	—	—	—	
	400	A	DTU365	DTU365R	DTU365DS	DTU365AWK	—	125	—	250	—	350	50	—	
	600	A	DTU366 [30]	DTU366R [30]	—	DTU366AWK [30]	—	125	—	250	—	350	50	—	
Non-Fusible 4P, 600 Vac—600 Vdc								2Ø	3Ø	2Ø	3Ø	2Ø	3Ø		
	60	F	DTU462 [31]	Use NEMA Type 12	DTU462DS [31]	DTU462AWK [22] [31]	20	20	40	50	50	60	10	30	
	100	F	DTU463 [31]		DTU463DS [31]	DTU463AWK [22] [31]	30	40	50	75	50	100	20	50	
	200	E	82444 [30]	82444R [30]	82444DS [30]	H82444 [22] [31] [32] [30]	—	—	—	—	—	—	—	—	
	400	A	DTU465 [30]	DTU465R [30]	—	—	—	125	—	250	—	350	50	—	
	600	A	DTU466 [30]	DTU466R [30]	—	—	—	125	—	250	—	350	50	—	
Non-Fusible 6P, 600 Vac—600 Vdc								1Ø	3Ø	1Ø	3Ø	1Ø	3Ø		
	60	F	—	—	—	DTU662AWK [22] [31]	—	20	—	50	—	60	10	30	
	100	F	—	—	—	DTU663AWK [22] [31]	—	40	—	75	—	100	20	50	

[11] The starting current of motors of more than standard horsepower may require the use of fuses with appropriate time delay characteristics.

[12] Std.—Using fast acting one time fuses. Max.—Using dual element time delay fuses. (Non-fusible switches have max rating unless noted.)

[13] Use outer switching poles.

[14] If used on corner grounded delta systems, install neutral and use outer switching pole for ungrounded conductors. See data bulletin 2700DB0202 for additional information.

[15] 480 Vac 1 Phase HP = 3 Std, 7.5 Max

[16] 10 Std, 15 Max

[17] 480 Vac 1 Phase HP = 5 Std, 20 Max

[18] 25 Std, 30 Max

[19] 480 Vac 1 Phase HP = 10 Std, 30 Max

[20] 40 Std, 50 Max

[21] Maximum HP

[22] Complete rating on switch is NEMA Type 3R, 5 or 12. For 3R applications, remove drain screw from bottom endwall.

[23] Maximum HP is 15 for corner grounded delta systems.

[24] Maximum HP is 30 for corner grounded delta systems.

[25] Use 75°C #4 Cu or #2 Al conductors only on DTU362 and DTU362RB.

[26] Use 75°C #1 Cu conductors only.

[27] 480 Vac, 250 Vdc maximum

[28] Not UL Listed.

[29] Standard Hp rating.

[30] 250 Vdc maximum.

[31] Not suitable for use as service equipment.

[32] 480 Vac, 250 Vdc maximum.

Accessories

Table 3.46: Electrical Interlocks (For Electrical Interlock Contact Ratings, see Supplemental Digest Section 2)

Switch	Field-Installed Electrical Interlock Kit Cat. No. [33]
30–100 A Type DT, DTU (Series F)	EIK1, EIK2 [34][35]
200 A Type 82000 and DTU (Series E) [36]	[37]
400–600 A Type DTU (Series A)	DS200EK2D

Table 3.47: Neutral Assembly

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) (2- and 3-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) (2- and 3-pole switches only)	DT30SN	(3) 14-4 Al/Cu plus (2) 14-4 Al/Cu Svc Ground	—	—
200 A Type 82000 (Series E) (2- and 3-pole switches only) [38]	[39]	(3) 6-300 Al/Cu plus (1) 6-2/0 Al or 10-2/0 Cu Svc Ground	—	—
200 A Type DTU (Series E)	Factory Installed	(3) 4-300 Al/Cu plus (1) 4-300 Al/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	—	—

Table 3.48: Service Grounding Kit—Required for service equipment use

Switch	Field-Installed Service 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 [40]

Table 3.49: Class R Fuse Kits

When properly installed, this kit accepts only Class R fuses. Kits are available for field installation. For factory installation add suffix CLR to the switch catalog number.		
Switch	Series Number	Class R Fuse Kit Cat. No.
Class R Fuse Kits—240 V (two kits per 3P switch)		
30 A	F5	RFK03
60 A	F5	RFK06
100 A	F5	RFK10
Class R Fuse Kits—600 V (two kits per 3P switch)		
30 A	F5	RFK06
60 A	F5	RFK06H
100 A	F5	RFK10

Viewing Windows: Accessory available on 30–100 A DT and DTU Series F switches only. Add the suffix VW to the catalog number.

Key Interlock Systems: For factory-installed key interlocks, refer to [page 3-18](#).

Lock-ON Provisions: Standard feature on 30–100 A type DT and DTU (Series F), and type 92,000 switches.

Feature available as factory installed option for Type 82,000 (200 A only) and 200 A DTU (Series E) switches. Add the suffix SPLO to the catalog number.

[33] 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 Kit](#), [page](#) for electrical interlock ratings.

[34] 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.

[35] Double throw switches 92251, 92351, and 92451 are not available with factory or field installed electrical interlocks.

[36] Electrical interlock EK400DTU2 can be added to 200 A, 4-pole Type 82000 switches in the field.

[37] 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.

[38] Neutral assembly catalog number DT200N can be added to 4P, 200 A, Type 82000 switches in the field.

[39] For 200 A Type 82000, a neutral assembly is available factory installed on 2P and 3P switches. Not UL Listed. To order, add suffix N to the standard catalog number. Neutral terminal lug data = (3) #4 - 250 kcmil Al/Cu wire and (1) #4 - 250 kcmil Al/Cu service ground.

[40] (3) 6-250 ground lugs are provided as standard. DS468GKD provides an additional (2) 6-250 ground lugs.



- UL Listed for indoor or rainproof applications
- Suitable for use with conduit having ANSI standard taper pipe thread
- NEMA 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
- NEMA 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

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

Watertight Hubs

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

Table 3.50: Water Resistant Hubs [41]

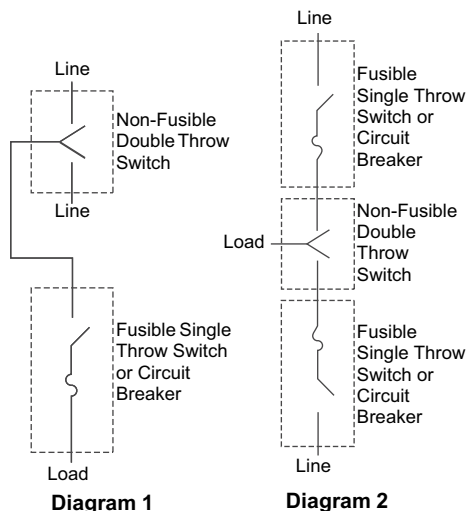
Conduit Size	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	3-1/2	4
Standard-Zinc Hub Cat. No	H050	H075	H100	H125	H150	H200	H250	H300	H350	H400
Chrome Plated Hub Cat. No.	H050CP	H075CP	H100CP	H125CP	H150CP	H200CP	—	—	—	—



Water resistant Hubs

[41] Gaskets are provided.
3-28

Application Data for Double Throw Safety Switches



Situations Requiring Fuses

30–100 A Type DT (Series F):

Select DT switches from 240 Volt Double-Throw Safety Switches, page 3-25 and 600 Volt Double Throw Safety Switches, page 3-26 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, page 3-25 and 600 Volt Double Throw Safety Switches, page 3-26 in conjunction with standard fusible devices, and install them according to diagram 1 or 2, below.

Table 3.51: UL Listed Short Circuit Current Ratings

Switch Type	Amperes	Voltage Rating	UL Listed Fuse Class	Short Circuit Current Rating [42] (A)
Type 92000	30 A	240 V	H, K	10,000 [43]
Type DT (Series F)	30–100 A	240 V or 600 V	H, K	10,000
			R, J	200,000
Type DTU [44] (Series F)	30–100 A	240 V or 600 V	H or K	10,000 [43]
			R, J or T	200,000
DTU224NRB and DTU324NRB (Series E)	200 A	240 V	H, K	10,000 [43]
DTU324N (Series E)	200 A	240 V	H, K	10,000 [43]
			R, J	100,000
Type 82,000	All	240 V or 600 V	H, J	10,000 [43]
Type DTU (Series A)	400–600 A	240 V or 600 V	H, K	10,000
			R, J, T	100,000

[42] 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.

[43] 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.

[44] 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

Table 3.52: Terminal Lug Data for Type DT, DTU (Series F) Double Throw Safety Switches [45]

Switch Type	Wires per Phase	NEMA Type 1, 3R, 4, 4X, 12			Optional Copper Only Lug
		Wire Range Wire Bending Space Per NEC Table 373-6 AWG/kcmil	Standard Lug Wire Range AWG/kcmil	Optional Compression Lug Field-Installed	
30–60 A Type DT, DTU (Series F)	1	12–2 Al or 14–2 Cu	12–2 Al or 14–2 Cu	C10-14, D8-14-SK, or E6-14 [46]	See Table 3.35 Copper Lug Kits, page 3-19 and Double Lug Kits, page 3-20 for appropriate kit. Order two kits per switch.
100 A Type DT, DTU (Series F)	1	12–1/0 Al or 14–1/0 Cu	12–1/0 Al or 14–1/0 Cu	VCEL02114S1 [47]	

Table 3.53: Terminal Lug Data for Types 82,000 and for A and E-Series DTU devices [45]

Amperes	Wires per Phase	Wire Range Wire Bending Space Per NEC Table 373-6 AWG/kcmil	Lug Wire Range AWG/kcmil	Optional Compression Lugs Field-Installed
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	VCEL030516H1 [47]
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	—

[45] 30–100 A switches suitable for 60° C or 75° C conductors. 200–600 A switches suitable for 75° C conductors.

[46] Order from Thomas and Betts

[47] Hubbell Versa-Crimp™ catalog numbers.

Series F Devices 30–100 A

Table 3.54: 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
DT321	F5	38.00	965	10.25	260	11.50	292	6.75	171
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 3.55: 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
82254	E1	30.88	784	15.75	400	19.63	499	9.75	248
82254NW	E1	30.88	784	20.00	508	23.88	607	11.75	298
82344	E2	30.88	784	20.00	508	23.88	607	11.75	298
82344RB	E1	32.50	826	20.63	524	24.00	610	10.63	270
82354	E1	30.88	784	20.00	508	23.88	607	11.75	298
92251	T4	10.00	254	8.00	203	9.75	248	4.75	121
82344DS	E1	30.88	784	20.00	508	23.88	607	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
H82444	E2	32.50	826	30.21	767	33.61	854	10.63	270
H82454	E3	32.50	826	30.21	767	33.61	854	10.63	270
82454	E3	38.00	965	29.62	753	33.02	839	10.63	270
82444	E3	38.00	965	29.62	753	33.02	839	10.63	270
82454R	E3	38.00	965	29.62	753	33.02	839	10.63	270
82444R	E3	38.00	965	29.62	753	33.02	839	10.63	270
H82254	E3	32.50	826	24.50	622	26.25	667	10.63	270
H82354	E3	32.50	826	24.50	622	26.25	667	10.63	270
82444DS	E3	38.00	965	29.62	753	33.02	839	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

