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Section 3

Safety Switches

SAFETY SWITCHES

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Light Duty



General Duty



Heavy Duty



Stainless Steel Heavy Duty

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Series A, E, and T4 Devices

3-32



EZ-Selector

Safety Switches EZ Selector - Selection Assistance Safety Switches EZ Selector - Selection Assistance

EZ Selector

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, 600 Vac
- 5. Select amperes:
 - General/light duty 30 A, 60 A, 100 A, 200 A, 400 A, 800 A
 - Heavy duty 30 Å, 60 Å, 100 Å, 200 Å, 225 Å, 400 Å, 600 Å, 800 Å, 1200 Å
 - 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.

Additional Information

- Search "Safety Switches" from our technical FAQs page: www.schneider-electric.us/ en/faqs/home/
- Refer to catalog 3100CT1602.

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3-2



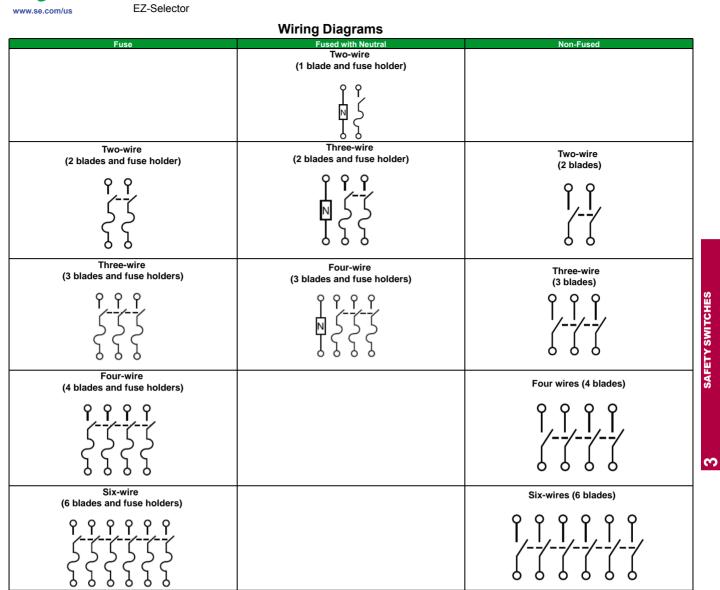


Table 3.1: Fusible



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.

L221N

| | | | | | | Horsepower Ratings | | | | | |
|---|---|--------------------|--------------------|----------------|------------|--------------------|----------------|--------|--|--|--|
| | System Amperes | Fuse | NEMA Type 1 Indoor | 120 Vac | | 240 Vac | | | | | |
| | Oystein | Amperes | Fuse | Cat. No. | Std. | Max. | Std. | Max. | | | |
| | | | | | 1Ø | 1Ø | 1Ø | 1Ø | | | |
| | 2 Wire (1 Blades and F | useholders, 1 Neut | ral)—120 Vac | | | | | | | | |
| 0 | و- ∕_ر_ر_ه 0∑0 | 30 | Plug | L111N | - | _ | - | - | | | |
| | 3 Wire (2 Blades and F | useholders, 1 Neut | ral)—120/240 Va | ac | | | | | | | |
| | ۰- [/] -∕,-∘ ۰- ⁽ -∕,-∘ ۰ <u> </u> ⊇۰ | 30 | Plug Cart | L211N L221N | 1/2 1/2 | 2 2 | 1-1/2 1-1/2 | 3 3 | | | |

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Table 3.2: Fusible

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.

240 Volt—Single Throw Fusible Switches



| | | NEMA | NEMA | Class R | Line Side | | Horsepov | ver Ratings | ; |
|-------------------|--|----------------------|--------------------------|---------------------|---------------------------------|-------|------------------------|-------------|-------------------------|
| Amperes | Fuse | Type 1 Indoor | Type 3R [1] Rainproof | Fuse Kits [2] | Barriers Factory Included[3] | | st Acting le Fuses) | | al Element ay Fuses) |
| | | Cat. No. | Cat. No. | Cat. No. | | 1Ø | 3Ø | 1Ø | 3Ø |
| 2 Wire (1 Blade a | 2 Wire (1 Blade and Fuseholder, 1 Neutral)—120 Vac | | | | | | | | |
| 30 | Plug | Use Light Duty | Device for this Applicat | ion (see above) | _ | | _ | I | _ |
| 30 | Cart. | Use three | -wire devices for this a | oplication. | _ | | _ | I | _ |
| 3 Wire (2 Blades | and Fusehold | ders, 1 Neutral)—120 |)/240 Vac (Plug), 240 V | /ac (Cart.) Maximum | 1 | | | | |
| 30 | Plug | D211N | D211NRB | _ | — | 1-1/2 | - | 3 | _ |
| 30 | Cart. | D221N | D221NRB | DRK30 | - | 1-1/2 | 3 [4] | 3 | 7-1/2 [4] |
| 60 | Cart. | D222N | D222NRB | RFK03H | Factory Included | 3 | 7-1/2 [4] | 10 | 15 [4] |
| 100 | Cart. | D223N | D223NRB | RFK10 | Factory Included | 7-1/2 | 15 [4] | 15 | 30 [4] |
| 200 | Cart. | D224N [5] | D224NRB [5] | HRK1020 | Factory Included | 15 | 25 [4] | _ | 60 [4] |
| 400 | Cart. | D225N | D225NR | DRK40 | _ | - | | - | _ |
| 600 [6] | Cart. | D226N | D226NR | DRK600 | — | | — | | _ |
| 4 Wire (3 Blades | and Fusehold | ders, 1 Neutral)—240 |) Vac Maximum | | | | | | |
| 30 | Cart. | D321N | D321NRB | DRK30 | _ | 1-1/2 | 3 | 3 | 7-1/2 |
| 60 | Cart. | D322N | D322NRB | RFK03H | Factory Included | 3 | 7-1/2 [7] | 10 | 15 [7] |
| 100 | Cart. | D323N | D323NRB | RFK10 | Factory Included | 7-1/2 | 15 [7] | 15 | 30 [7] |
| 200 | Cart. | D324N [5] | D324NRB [5] | HRK1020 | Factory Included | 15 | 25 [7] | - | 60 [7] |
| 400 | Cart. | D325N | D325NR | DRK40 | LSBI02 | — | 50 | _ | 125 |
| 400 [8] | Class T | D325NT | D325NTR | — | LSBI02 | — | 50 | _ | — |
| 600 [6] | Cart. | D326N | D326NR | DRK600 | LSBI02 | _ | 75 | _ | 150 |
| 600 [8] | Class T | D326NT | D326NTR | _ | LSBI02 | _ | 75 | _ | _ |
| 800 <i>[8]</i> | Class T | T327N | T327NR | _ | LSBI02 | - | 100 | | _ |

D223N

240 Volt—Single Throw Non-Fusible Switches

Table 3.3: Non-Fusible

| System | Amperes | NEMA Type 1 Indoor | NEMA Type 3R Rainproof [9] | Line Side Barriers[10] | Horsepower Ratings (Max.) | |
|--------------------|------------------|-------------------------|----------------------------|---------------------------|---------------------------|-------|
| | | Cat. No. | Cat. No. | | 1Ø | 3Ø |
| 2 Wire (2 Blades)- | –240 Vac Maximum | 1 | | | | |
| | 30 | _ | DU221RB | LSBD202 | 3 | - |
| | 60 | — | DU222RB | LSBD202 | 10 | — |
| ŶΫ́ | 60 | QO260NATS [11] [12][13] | QO200TR [11] [12] [13] | LSBD202 | 10 | _ |
| '/- ' / | 100 | QO2000NS [11] [12] | QO2000NRB [11] | LSBD202 | 20 | — |
| 66 | 200 | Use 3P Switch | Use 3P Switch | _ | _ | — |
| | 400 | Use 3P Switch | Use 3P Switch | — | _ | — |
| | 600 | Use 3P Switch | Use 3P Switch | _ | _ | — |
| 3 Wire (3 Blades)- | –240 Vac Maximum | 1 | | | | |
| | 30 | DU321 | DU321RB | LSBD202 | 3 | 7-1/2 |
| 000 | 60 | DU322 | DU322RB | LSBD202 | 10 | 15 |
| <u> _ _</u> _ | 100 | DU323 [14] | DU323RB [14] | [10] | 15 | 30 |
| | 200 | DU324 [15] | DU324RB [15] | [10] | 15 | 60 |
| 999 | 400 | DU325 | | LSBI02 | _ | 125 |
| | 600 | DU326 [16] | _ | LSBI02 | _ | 150 |

UL Listed Maximum Short Circuit Current Ratings - AC Only

Table 3.4: Fusible Safety Switch Short Circuit Current Rating

| Fuse Class | UL Listed Short Circuit Rating |
|------------|--------------------------------|
| Plug | 10 kA |
| Н, К | 10 kA |

[1] Bolt-on hubs —Refer to Rainproof Bolt-On Hubs, Table 1.27, page 3-16.

[2] When properly installed, the Class R Fuse Kit rejects all but Class R fuses.

[3] Factory included to prevent 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] Bolt-on hubs—Refer to Hubs, page 3-16.
- [10] Factory included to prevent inadvertent contact with live parts per UL 869A and NEC Service entrance barrier requirements.
- [11] Enclosed molded case switch—Refer to Section 1.
- [12] Includes factory-installed grounding kit.
- [13] Not service entrance rated—Refer to Table 3.34 for more information.
- [14] If a neutral assembly is required, order and field install SN0610.

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

SAFETY SWITCHES

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^[15] 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) SN20N Neutral Jumper Kit.

General Duty-Up to 100 kA Short Circuit **Current Rating**



Class 3130 / Refer to Catalog 3100CT1602

Table 3.4 Fusible Safety Switch Short Circuit Current Rating (cont'd.)

| Fuse Class | UL Listed Short Circuit Rating |
|-------------------|--------------------------------|
| J <i>[17]</i> , R | 100 kA |
| T [18] | 100 kA |

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 3.5: Non-Fusible Safety Switch Short Circuit Current Rating

| Fuse Class or Circuit Breaker Type [19] | UL Listed Short Circuit Rating |
|---|--------------------------------|
| Any Brand Circuit Breaker | 10 kA |
| H or J PowerPact Circuit Breaker | Up to 65 kA [20] |
| H, K | 10 kA |
| J, R | 100 kA [21] |
| Т | 100 kA [22] |

[17] Only applicable to 200 A - 600 A except D325NT, D325NTR, D326NT and D326NTR.

- [18] Only applicable to D325NT, D325NTR, D326NT, D326NTR, T327N and T327NR.
- [19] Ampere rating of fuse or circuit breaker not to exceed switch ampere rating. Only applicable to DU324 and DU324RB. HD, JD = 25 kA maximum.
- [20] SCCR = 50 kA, applicable to DU222RB, DU322 and DU322RB. [21]
- [22] Only applicable to DU323, DU323RB, DU325 and DU326.



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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.

| St. |
|--|
| Fuse Puller Kit Series F Fusible Switches Only |

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| Table 3.6: Fuse Puller Kits | | | | | | |
|-----------------------------|------------|----------|--|--|--|--|
| Switch Ampere Rating | Series No. | Cat. No. | | | | |
| 60 | F | FPK03 | | | | |
| 100 | F | FPK0610 | | | | |
| 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

| Electrical Interlock Kit Cat. No. [23] |
|---|
| EIK031 or EIK032 |
| EIK1 or EIK2 |
| |

Table 3.8: Electrical Interlock Contact Ratings [24]

| ······································ | | | | | | | |
|--|-------|---------|---------|---------|-------|-----------------|---------|
| | | AC 50 (| or 60Hz | | DC | | |
| Interlock Type | Volts | Make | Break | Cont. | Volts | Make / Break | Cont. |
| 1 N. O. / 1 N. C. | 120 | 40.00 A | 15.00 A | 15.00 A | 115 | 0.50 A | 15.00 A |
| Contact (-1 Suffix [25]) | 240 | 20.00 A | 10.00 A | 15.00 A | 230 | 0.25 A | 15.00 A |
| 2 N. O. / 2 N. C. | 120 | 30.00 A | 3.00 A | 10.00 A | 115 | 1.00 A | 10.00 A |
| Contacts (-2 Suffix [26]) | 240 | 15.00 A | 1.5 A | 10.00 A | 230 | 0.30 A | 10.00 A |

Equipment Grounding Kits



GTK0610



Table 3.9: Equipment Grounding Kits

..... PK3GTA1

| Switch Ampere Rating | Cat. No. | Lug Wire Range (AWG) |
|----------------------|--------------|--|
| 30 [27] | 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 [28] | GTK03 | (2) 14 – 4 Cu or (2) 12 – 4 Al (4) 14 – 12 Cu or (4) 12 – 10 Al |
| 100 | GTK0610 | (2) 14 – 1/0 Cu or (2) 12 – 1/0 Al (2) 14 – 6 Cu or (2) 12 – 6 Al |
| 200 | PKOGTA2 | (2) 10 – 2/0 Cu or (2) 6 – 2/0 Cu Al |
| 400, 600 | PKOGTA2 [29] | (2) 10 – 2/0 Cu or (2) 6 – 2/0 Cu Al |
| 800 | PKOGTA3 | (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

| 1 | Switch Ampere Rating | Lug Kit Cat. No. | Wire Range/NEC | Lug Wire Range |
|---|------------------------|------------------|---|------------------------------------|
| | 400 or 600 Series [30] | 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 [31]

| Amperes | Conductors Per Phase | Wire Range Wire Bending Space Per NEC Table 312.6 AWG/kcmil | Lug Wire Range AWG/kcmil |
|------------------------|-------------------------|---|---|
| 30 [32] | 1 | 12–8 (AI) or 14–8 (Cu) | 12-8 (Al) or 14-8 (Cu) |
| 30 | 1 | 12–6 (AI) or 14–6 (Cu) | 12-6 (Al) or 14-6 (Cu) |
| 60 | 1 | 12–3 (AI) or 14–3 (Cu) | 12–2 (AI) or 14–2 (Cu) |
| 100 | 1 | 12–1 (AI) or 14–1 (Cu) | 12-1/0 (AI) 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) |

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 [23] UL Listed.

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

[25] -1 Suffix uses a 9007A01 limit switch.

[26] -2 Suffix uses a 9007C03 limit switch

[27] Light duty safety switches.

[28] 60 A non-fusible switches accept PK3GTA1.

[29] Two required if ground conductors are run in parrellel.

Not suitable for use on 400 A NEMA Type 3R. [30]

30–100 A switches suitable for 60°C or 75°C conductors. 200–800 A switches suitable for 75°C conductors. [31] 1321

Light duty switches only.

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Dimensions for General Duty Safety Switches

Table 3.12: Approximate Dimensions

| Cat.No. | Series | ŀ | | ۷ | ٧ | W/H | | D | | Std. |
|-------------------|----------|----------------|--------------|-------|------------|----------------|------------|----------------|------------|----------|
| | | in. | mm | in. | mm | in. | mm | in. | mm | Pack |
| 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 |
| D323NRB D324N | F3 F1 | 29.00 | 737 | 17.25 | 438 | 19.00 | 483 | 8.25 | 210 | 1 |
| D324NRB | F1 | 29.00 | 743 | 17.25 | | | 483 | 8.25 | | 1 |
| D324NRB D325N | E3 | | | | 438 | 19.00 | | | 210 226 | 1 |
| D325N D325NT | | 45.12 | 1146 1146 | 24.00 | 610 610 | 24.88 | 632 | 8.88 8.88 | | 1 |
| | E3 | 45.12 | | 24.00 | | 24.88 | 632 | | 226 | 1 |
| D325NR D325NTR | E1 E1 | 30.63 30.63 | 778 778 | 21.38 | 543 543 | 22.25 22.25 | 565 565 | 10.13 10.13 | 257 257 | |
| | | | | 21.38 | | | | | | 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 | 1246 | 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 |
| QO200TR | G3 | 6.50 | 165 | 4.63 | 118 | — | _ | 3.88 | 99 | 5 |
| QO260NATS | E2 | 9.25 | 235 | 4.88 | 124 | _ | _ | 3.25 | 83 | 1 |
| QO2000NRB | E1 | 14.00 | 356 | 7.75 | 197 | — | _ | 4.50 | 114 | 1 |
| QO2000NS | E1 | 13.38 | 340 | 6.13 | 156 | - | _ | 3.50 | 89 | 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 | <u> </u> |

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Heavy Duty Safety Switches









NEMA Type 12

Visible blade heavy duty safety switches are designed for application where maximum performance and continuity of service are required. All 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 Vor 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 3-12.

Table 3.13: 240 Volt—Single Throw Fusible

| | | | NEMA Type | | | | | Hors | sepower | Ratings | |
|--------------|--------------------------|--------------------------------------|---|---|---|---|---|----------------|-------------|--|-------------|
| | | NEMA Type 3R | 4, 4X, 5, [2] 304 Stainless Steel | NEMA Type 12K With | NEMA Type 3R, 5 or 12 [4] | | | 240 | Vac | | |
| Amperes | NEMA Type 1 Indoor | Rainproof (Bolt-on Hubs [1]) | (3) Dust tight, Watertight, Corrosion Resistant (Watertight Hubs [1]) | With Knockouts (Watertight Hubs [1]) | Without Knockouts (Watertight Hubs [⁷]) | Line Side Barriers Factory Included <i>[5]</i> | Std. (Using Fast Acting, One Time Fuses) | | (Us Elem | Max. ing Dual ent, Time ıy Fuses) | 250 Vdc [6] |
| | Cat. No. | Cat. No. | Cat. No. | Cat. No. | Cat. No. | | 1Ø | 3Ø | 1Ø | 3Ø | |
| 2-Wire (2 Bl | ades and Fu | seholders)—240 V | ac, 250 Vdc | | | | | | | | |
| 30 | | | H221DS | H221A | H221AWK | Factory Included | 1-1/2 | 3 [7] | 3 | 7-1/2 [7] | 5 |
| 30 | l loo thru | a wire devices | _ | — | H2212AWK [8] | Factory Included | 1-1/2 | - | 3 | - | 5 |
| 60 | | ee-wire devices vire applications | H222DS | - | H222AWK | Factory Included | 3 | 7-1/2 [7] | 10 | 15 [7] | 10 |
| 100 | | | H223DS | H223A | H223AWK | Factory Included | 7-1/2 | 15 [7] | 15 | 30 [9] | 20 |
| 200 | | | H224DS | H224A | H224AWK | Factory Included | 15 | 25 [7] | | 60 [7] | 40 |
| 400 | H225 | H225R | H225DS | — | H225AWK | LSBG202 | _ | _ | Ι | _ | 50 |
| 600 | H226 | H226R | H226DS | — | H226AWK | LSBG202 | — | 75 [7] | - | 200 [7] | 50 |
| 800 | H227 | H227R[10] | — | _ | H227AWK | LSBF202 | 50 | - | _ | — | 50 |
| 1200 | H228 | H228R [10] | — | _ | H228AWK | LSBF202 | 50 | | - | - | 50 |
| 3-Wire (2 Bl | ades and Fu | seholders, 1 Neutr | al)—240 Vac, 250 Vdc | | | | | | | | |
| 30 | H221N | H221NRB | | | | Factory Included | 1-1/2 | 3 [7] | 3 | 7-1/2 [9] | 5 |
| 60 | H222N | H222NRB | | se two-wire devices, ed Neutral Assembli | es, page 3-19 | Factory Included | 3 | 7-1/2 [7] | 10 | 15 [7] | 10 |
| 100 | H223N | H223NRB | | | | Factory Included | 7-1/2 | 15 [7] | 15 | 30 [7] | 20 |
| 200 | H224N | H224NRB | | | | Factory Included | 15 | 25 [7] | I | 60 [7] | 40 |
| 400 | H225N | H225NR | H225NDS | _ | H225NAWK | LSBG202 | - | 50 [7] | _ | 125 [7] | 50 |
| 600 | H226N | H226NR | H226NDS | - | H226NAWK | LSBG202 | Ι | 75 [7] | I | 200 [7] | 50 |
| 800 | H227N | H227NR [10] | - | - | H227NAWK | LSBF202 | 50 | - | I | - | 50 |
| 1200 | H228N | H228NR [10] | _ | _ | H228NAWK | LSBF202 | 50 | _ | _ | _ | 50 |
| 3-Wire (3 Bl | ades and Fu | seholders)—240 V | ac, 250 Vdc | | | | | | | | |
| 30 | | | H321DS | H321A | H321AWK | Factory Included | 1-1/2 | 3 | 3 | 7-1/2 | 5 |
| 60 | Use for | Ir-wire devices | H322DS | H322A | H322AWK | Factory Included | 3 | 7-1/2 | 10 | 15 | 10 |
| 100 | | wire applications | H323DS | H323A | H323AWK | Factory Included | 7-1/2 | 15 | 15 | 30 | 20 |
| 200 | | | H324DS | H324A | H324AWK | Factory Included | 15 | 25 | - | 60 | 40 |
| 400 | H325 | H325R | H325DS | _ | H325AWK | LSBG203 | _ | 50 | - | 125 | 50 |
| 600 | H326 | H326R | H326DS | _ | H326AWK | LSBG203 | - | 75 | _ | 200 | 50 |
| 800 | H327 | H327R [10] | _ | _ | H327AWK | LSBF203 | 50 | 100 | — | 250 | 50 |
| 1200 | H328 | H328R [10] | _ | _ | H328AWK | LSBF203 | 50 | 100 | — | 250 | 50 |
| 4-Wire (3 Bl | ades and Fu | seholders, 1 Neutr | al)—240 Vac, 250 Vdc | | | | | | | | |
| 30 | H321N | H321NRB | | | | Factory Included | 1-1/2 | 3 | 3 | 7-1/ 2 | 5 |
| 60 | H322N | H322NRB | | e three-wire devices, ed Neutral Assembli | | Factory Included | 3 | 7-1/ 2 | 10 | 15 | 10 |
| 100 | H323N | H323NRB | | | | Factory Included | 7-1/2 | 15 | 15 | 30 | 20 |
| 200 | H324N | H324NRB | | | | Factory Included | 15 | 25 | | 60 | 40 |
| 400 | H325N | H325NR | H325NDS | _ | H325NAWK | LSBG203 | _ | 50 | _ | 125 | 50 |
| 600 | H326N | H326NR | H326NDS | — | H326NAWK | LSBG203 | - | 75 | - | 200 | 50 |
| 800 | H327N | H327NR [10] | _ | _ | H327NAWK | LSBF203 | 50 | 100 | — | 250 | 50 |
| 1200 | H328N | H328NR [10] | 1 | 1 | H328NAWK | LSBF203 | 50 | 100 | 1 | 250 | 50 |

Accessories: see page 3-16 Dimensions: NEMA Type 1 and 3R, see page 3-22 Dimensions: NEMA Type 4, 4X and 5 Stainless and NEMA Type 12, see page 3-23

For Rainproof Bolt-On Hubs and Watertight Hubs see Hubs, page 3-16. [1]

[2] Complete rating is NEMA Type 3, 3R, 4, 4X, 5 and 12. For NEMA Type 3R applications, remove drain screw from bottom endwall.

[3] See 316 Grade Stainless Steel-NEMA Type 3, 3R, 4, 4X, 5, 12, page 3-13.

[4] Also suitable for NEMA Type 3R application by removing drain screw from bottom endwall.

- [5] Factory included to prevent inadvertent contact with live parts per .UL 869A and NEC Service entrance barrier requirements.
- [6] For switching dc, use two outside switching poles.

For corner grounded delta systems, use switching poles for ungrounded conductors. See data bulletin 2700DB0202 for additional information. [7]

60 ampere switch with 30 ampere fuse spacing and clips. Must use 60 A enclosure accessories including electrical interlocks. [8]

For corner grounded delta systems, use switching poles for ungrounded conductors [9]

[10] Suitable for NEMA Type 5 applications with drain screw installed.

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600 Volt—Single Throw Fusible

| | | | NEMA Type | | | | | Hors | epower Ratin | gs | | |
|--------------|--------------------------|--|---|--|---|---|---|---|--|---|------------|--------|
| | | | 4, 4X, 5 [12] 304 Stainless | | | | 480 | Vac | 600 |) Vac | | |
| Am- peres | NEMA Type 1 Indoor | NEMA Type 3R Rainproof (Bolt-on Hubs [11]) | Steel (316 stainless [13]) Dust tight, Watertight, Corrosion Resistant (Watertight Hubs [11]) | NEMA Type 12K With Knockouts (Watertight Hubs [11]) | NEMA Type 3R, 5 or 12 [14] Without Knockouts (Watertight Hubs [11]) | Line Side Barriers Factory Included [15] | Std. (Using Fast Acting, One Time Fuses) | Max. (Using Dual Element, Time Delay Fuses) | Std. (Using Fast Acting, One Time Fuses) | Max. (Using Dual Element, Time Delay Fuses) | dc | [16] |
| | Cat. No. | Cat. No. | Cat. No. | Cat. No. | Cat. No. | | 3Ø | 3Ø | 3Ø | 3Ø | 250 | 600 |
| | 2 Blades and | Fuseholders)- | -600 Vac, 600 Vd | c | | | | | - | | | |
| 30 | | | | | | _ | _ | _ | _ | _ | - | — |
| 60 | | | Use three-wire de or two-wire applic | | | - | _ | _ | _ | - | - | — |
| 100 200 | | ' | or two-write applic | auons | | | | | | | = | - |
| 400 | H265 | H265R | H265DS | _ | H265AWK | LSBG602 | 100 [17] | 250 [17] | | | 50 | 50 |
| 600 | H266 | H266R | H266DS | _ | H266AWK | LSBG602 | 150 [17] | 400 [17] | _ | _ | 50 | 50 |
| 800 | H267 | H267R [18] | | _ | H267AWK | LSBF602 | | _ | _ | _ | _ | 50 |
| 1200 | H268 | H268R [18] | _ | _ | H268AWK | LSBF602 | _ | _ | _ | _ | - | 50 |
| | | | -600 Vac, 600 Vd | c | 11200/11/11 | 2001002 | | | 1 | | | |
| 30 | H361 | H361RB | H361DS | H361A | H361AWK | Factory included | 5 | 15 | 7-1/2 | 20 | 5 | 15 |
| 30 | H3612 [19] | H3612RB [19] | _ | H3612A [19] | H3612AWK [19] | Factory included | 5 | 15 | 7-1/2 | 20 | _ | 15 |
| 60 | H362 | H362RB | H362DS | H362A | H362AWK | Factory included | 15 | 30 | 15 | 50 | _ | 30 |
| 100 | H363 | H363RB | H363DS | H363A | H363AWK | Factory included | 25 | 60 | 30 | 100 | _ | 50 |
| 200 | H364 | H364RB | H364DS | H364A | H364AWK | Factory included | 50 | 125 | 60 | 150 | 40 | 50 |
| 400 | H365 | H365R | H365DS | _ | H365AWK | LSBG602 | 100 | 250 | 125 | 350 | 50 | 50 |
| 600 | H366 | H366R | H366DS | _ | H366AWK | LSBG602 | 150 | 400 | 200 | 500 | 50 | 50 |
| 800 | H367 | H367R [18] | — | — | H367AWK | LSBF602 | 200 | 500 | 250 | 500 | — | 50 |
| 1200 | H368 | H368R [18] | _ | _ | H368AWK | LSBF602 | 200 | 500 | 250 | 500 | — | 50 |
| 4-Wire (| 3 Blades and | Fuseholders, 1 | Neutral)-600 Va | ac, 600 Vdc | | | | | | | | |
| 30 | H361N | H361NRB | | a three wire dowi | | Factory included | 5 | 15 | 7-1/2 | 20 | — | 15 |
| 60 | H362N | H362NRB | | e three-wire devid led Neutral Assen | | Factory included | 15 | 30 | 15 | 50 | — | 30 |
| 100 | H363N | H363NRB | | | , paga a ra | Factory included | 25 | 60 | 30 | 75 | — | 50 |
| 200 | H364N | H364NRB | H364NDS | H364NA | H364NAWK | Factory included | 50 | 125 | 60 | 150 | 40 | 50 |
| 400 | H365N | H365NR | H365NDS | — | H365NAWK | LSBG602 | 100 | 250 | 125 | 350 | 50 | 50 |
| 600 | H366N | H366NR | H366NDS | _ | H366NAWK | LSBG602 | 150 | 400 | 200 | 500 | 50 | 50 |
| 800 | H367N | H367NR [18] | - | - | H367NAWK | LSBF602 | 200 | 500 | 250 | 500 | - | 50 |
| 1200 | H368N | H368NR [18] | — | | H368NAWK | LSBF602 | 200 | 500 | 250 | 500 | - | 50 |
| | | Fuseholders)- | -600 Vac, 600 Vd | c [20] | | | 2Ø | 2Ø | 2Ø | 2Ø | | |
| 30 | H461 | — | H461DS | — | H461AWK | Factory included | 7-1/2 | 20 | 10 | 25 | 5 | 15 |
| 60 | H462 | _ | H462DS | _ | H462AWK | Factory included | 15 | 40 | 20 | 50 | 10 | 30 |
| 100 | H463 | _ | H463DS | _ | H463AWK | Factory included | 25 | 60 | 30 | 75 | 20 | 30 |
| 200 | H464 | - | H464DS | — | H464AWK | Factory included | 50 | 125 | 60 | 150 | 40 | 50 |
| 400 | H465 | _ | _ | _ | H465AWK | QTY (2): LSBG602 | 100 | 250 | 125 | 350 | 50 | 50 |
| 600 | H466 | | | — | | QTY (2): LSBG602 | 150 | 400 | 200 | 500 | 50 | 50 |
| | 6 Blades and | Fuseholders)- | 1 | | | | 3Ø | 3Ø | 3Ø | 3Ø | | |
| 100 | - | — | H663DS | — | H663AWK | Factory included | 25 | 60 | 30 | 75 | 1 — | _ |
| 200 | — | - | H664DS | - | H664AWK | Factory included | For application | s requiring motor K | disconnect cap (its, page 3-17 | bability, see Elec | trical Int | erlock |

Accessories: see page 3-16 Dimensions: NEMA Type 1 and 3R, see page 3-22 Dimensions: NEMA Type 4, 4X and 5 Stainless and NEMA Type 12, see page 3-23

For Rainproof Bolt-On Hubs and Watertight Hubs see Hubs, page 3-16. [11]

- [12] Complete rating is NEMA Type 3, 3R, 4, 4X, 5 and 12.
- [13] See 316 Grade Stainless Steel 3 Pole 600 Vac, 600 Vdc, page .

[14] Also suitable for NEMA Type 3R application by removing drain screw from bottom endwall.

- [15] Factory included to prevent inadvertent contact with live parts per UL 869A and NEC Service entrance barrier requirements.
- [16] For switching dc, use two outside switching poles.
- [17] For corner grounded delta systems, use switching poles for ungrounded conductors. See data bulletin 2700DB0202 for additional information.
 [18] Suitable for NEMA Type 5 applications with drain screw installed.

[19] 60 A switch with 30 A fuse spacing and clips. Must use 60 A enclosure accessories including electrical interlocks.

[20] Not suitable for use as service equipment.

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SAFETY SWITCHES

Switches Class 3110 / Refer to Catalog 3100CT1602

Class H, R, J, and L Fuse Provisions:

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 fault 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, rejects all but 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 fault current. See Class R Fuse Kits, page 3-17.

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 fault current. Switches rated 600 A, 240 or 600 Volt, require the addition of an adapter kit, H600J. One kit per three-pole switch.

Class L Fuse Provisions: Fusible 800 A 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.

600 Volt—Single Throw Non-Fusible

Table 3.15: 600 Volt—Single Throw Non-Fusible

| | | | | NEMA Type 4, 4X, 5 [22] | NEMA Type | NEMA Type 3R, | | | | Hor | sepow (Ma | er Ra ax.) | tings | | |
|-------------|-----------------|--------------------------|--------------------------------|--|-------------------------------|---|---------------------------|-----|----------|--------------|--------------|---------------|-------|--------|------------|
| System | Am- peres | NEMA Type 1 Indoor | NEMA Type 3R Rainproof [21] | 304 Stainless Steel [23] Dust tight, Watertight Corrosion Resistant | 12K With Knockouts [21] | 5 or 12 [24] Without Knockouts [21] | Line Side Barriers[25] | 2 | 40 | Volts Lin | 0 | 6 | 00 | dc [| [26] |
| | | | | [21] | | | | | <u> </u> | 480 | | | | | |
| 2 M/ine (2 | Blades) 6 | Cat. No. 00 Vac, 600 | Cat. No. | Cat. No. | Cat. No. | Cat. No. | | 1Ø | 3Ø | 1Ø | 3Ø | 1Ø | 3Ø | 250 | 600 |
| z-wire (z | , | 00 vac, 600 | vac | | | | | 1 | r – | | 1 | 1 | | | |
| | <u>30</u> 60 | | | Use three-wire device | 26 | | _ | = | _ | | _ | - | _ | | _ |
| | 100 | | | for two-wire applicatio | | | | Ē | _ | _ | = | _ | - | _ | _ |
| Ϋ́ | 200 | | | | | | _ | — | _ | | _ | - | _ | _ | _ |
| Î -Î (-7 | 400 | HU265 | HU265R | HU265DS | _ | HU265AWK | LSBG602 | — | 125 | _ | 250 | | _ | 50 | 50 |
| 00 | 600 | HU266 | HU266R | HU266DS | _ | HU266AWK | LSBG602 | _ | 200 | - | 400 | I | | 50 | 50 |
| | 800 | HU267 | HU267R [27] | _ | — | HU267AWK | LSBF602 | — | — | | — | 50 | | | 50 |
| | 1200 | HU268 | HU268R [27] | - | — | HU268AWK | LSBF602 | _ | - | I | _ | 50 | - | I | 50 |
| 3-Wire (3 | Blades)—6 | 600 Vac, 600 | Vdc | | | | | | | | | | | | |
| | 30 | HU361 | HU361RB | HU361DS | HU361A | HU361AWK | [25] | 5 | 10 | 7-1/2 | 20 | 10 | 30 | 5 | 15 |
| | 30 | HU361EI [28] | HU361RBEI [28] | HU361DSEI [28] | HU361AEI [28] | HU361AWKEI [28] | [25] | 5 | 10 | 7-1/2 | 20 | 10 | 30 | 5 | 15 |
| | 30 | _ | HU3612RB [29] | _ | HU3612A[29] | HU3612AWK[29] | [25] | 5 | 10 | 7-1/2 | 20 | 10 | 30 | 5 | 15 |
| | 60 | HU362 | HU362RB | HU362DS | HU362A | HU362AWK | [25] | 10 | 20 | 25 | 50 | 30 | 60 | 10 | 30 |
| Î.Î.Î. | 60 | _ | _ | HU362DSEI/28/ | _ | _ | [25] | 10 | 20 | 25 | 50 | 30 | 60 | 10 | 30 |
| | 100 | HU363 | HU363RB | HU363DS | HU363A | HU363AWK | [25] | 20 | 40 | 40 | 75 | 40 | 100 | 20 | 50 |
| 000 | 200 | HU364 | HU364RB | HU364DS | HU364A | HU364AWK | [25] | 15 | 60 | 50 | 125 | 50 | 150 | 40 | 50 |
| | 400 | HU365 | HU365R | HU365DS | _ | HU365AWK | LSBG602 | _ | 125 | _ | 250 | _ | 350 | 50 | 50 |
| | 600 | HU366 | HU366R | HU366DS | _ | HU366AWK | LSBG602 | _ | 200 | | 400 | I | 500 | 50 | 50 |
| | 800 | HU367 | HU367R [27] | - | _ | HU367AWK | LSBF602 | - | _ | | 500 | 50 | 500 | I | 50 |
| | 1200 | HU368 | HU368R [27] | _ | — | HU368AWK | LSBF602 | - | _ | - | - | 50 | 500 | _ | 50 |
| 4-Wire (4 | Blades)—6 | 000 Vac, 600 | Vdc [30] | | | | | 2Ø | 3Ø | 2Ø | 3Ø | 2Ø | 3Ø | | |
| | 30 | HU461 <i>[</i> 31] | - | HU461DS | _ | HU461AWK [32] | [25] | 10 | 10 | 20 | 20 | 25 | 30 | 10[33] | 15 [33] |
| | 60 | HU462 [31] | _ | HU462DS | _ | HU462AWK | [25] | 20 | 20 | 40 | 50 | 50 | 60 | 10 | 30 |
| | 100 | HU463 [31] | _ | HU463DS | _ | HU463AWK | [25] | 30 | 40 | 50 | 75 | 50 | 75 | 20 | 30 |
| [[[| 200 | HU464 [31] | _ | HU464DS | _ | HU464AWK | [34] | 50 | 60 | 50 | 125 | 50 | 150 | 40 | 50 |
| | 400 | HU465 | _ | | _ | HU465AWK | QTY (2): LSBG602 | — | 125 | ١ | 250 | | 350 | 50 | 50 |
| | 600 | HU466 | _ | _ | — | — | QTY (2): LSBG602 | _ | 200 | | 400 | _ | 500 | 50 | 50 |
| 6-Wire (6 | Blades)-6 | 00 Vac [30] | | | | | | | 3Ø | | 3Ø | | 3Ø | | |
| | 30 | _ | _ | HU661DS | — | HU661AWK | [25] | — | 10 | _ | 20 | — | 30 | _ | — |
| | 60 | _ | — | HU662DS | — | HU662AWK | [25] | — | 20 | - | 50 | — | 60 | - | — |
| 111111 | 100 | _ | — | HU663DS | — | HU663AWK | [25] | — | 50 | - | 75 | — | 75 | - | — |
| | 200 | — | | HU664DS | _ | HU664AWK | [25] | I — | 60 | I | 125 | | 150 | _ | |

[21] For Rainproof Bolt-On Hubs and Watertight Hubs see Hubs, page 3-16.

[22] Complete rating is NEMA Type 3, 3R, 4, 4X, 5 and 12.

[23] For 316 stainless, see 316 Grade Stainless Steel—NEMA Type 3, 3R, 4, 4X, 5, 12, page 3-13.

[24] Also suitable for NEMA Type 3R application by removing drain screw from bottom endwall.

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

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

[27] Suitable for NEMA Type 5 applications with drain screw installed.

[28] Switches with El suffix are stocked with factory-installed electrical interlocks with one normally-open and one normally-closed contact.

[29] Use 60 A enclosure accessories, including electrical interlocks.

[30] Not suitable for use as service equipment.

[31] No knockouts are provided.

[32] Requires 60 A accessories. See NEMA Type 4, 4X, 5, 7, 9, and 12, page 3-23 for series rating

[33] HU461AWK (Series F6) is rated 5 hp@250 Vdc, 15 hp@600 Vdc.

[34] Factory Included to prevent inadvertent contact with live parts. UL 869A and NEC service entrance barrier requirements.

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Class H or K standard. With

Class R Fuse

UL Listed Maximum Short Circuit Current



Class 3110 / Refer to Catalog 3100CT1602

UL Listed Maximum Short Circuit Current Ratings—AC only

Table 3.16: Fusible Safety Switches

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

| Heavy Duty Safety Switch Type | UL Listed Fuse Class | UL Listed Short Circuit Current Ratings |
|----------------------------------|-------------------------|--|
| F . 34 | H, K | 10 kA |
| Fusible | R, J, L | 200 kA <i>[35]</i> |

Ratings—AC only

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 3.17: Non-Fusible Safety Switches [36] [37]

| Switch Rating | Fuse or Circuit Breaker Type [38] | | 3-Phase | | 250 Vdc / |
|------------------------------------|-----------------------------------|---------|---------|---------|-------------|
| (A) | Fuse of Circuit Breaker Type [36] | 240 Vac | 480 Vac | 600 Vac | 600 Vdc |
| With Upstream Fuse Protection | | | | | |
| A.I. | H, K | 10 kA | 10 kA | 10 kA | Up to 10 kA |
| All | R,T,J,L | 200 kA | 200 kA | 200 kA | 00101017 |
| Vith Upstream Circuit Breaker Prot | ection | | | | |
| All | Any brand circuit breaker | 10 kA | 10 kA | 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 | Up to 10 k/ |
| 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 | |

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

For NEMA Type 4X Fiberglass Reinforced Polyester switches, see page 3-13. [36]

NEMA Type 7/9 SCCR 10 kAIR 600 Vac maximum. [37]



Special Application Heavy Duty Safety Switches



H363DF



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 watertight hubs, see Hubs, page 3-16. Equipment grounding lugs are supplied as standard through 200 A. See Table 3.40 Terminal Lug Data, page 3-21 for wire Termination data for grounding lugs. (For 304 stainless switches, see 240 Volt, page 3-9 and 600 Volt, page 3-10.

Table 3.18: 316 Grade Stainless Steel 3 Pole 600 Vac, 600 Vdc

| Amperes | Cat. No | Line Side Barriers[39] | 480 | Vac[40] | 600 | Vac [40] | 600 Vdc [41] |
|--------------------|-----------------|------------------------|------|---------|-------|----------|--------------|
| | | | Std. | Max. | Std. | Max. | Max. |
| Fusible—3P, 600 Va | ac, 600 Vdc | | | | | | |
| 30 | H361SS | Factory Included | 5 | 15 | 7-1/2 | 20 | 15 |
| 60 | H362SS | Factory Included | 15 | 30 | 15 | 50 | 30 |
| 100 | H363SS | Factory Included | 25 | 60 | 30 | 75 | 50 |
| 200 | H364SS | 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, 6 | 00 Vac, 600 Vdc | | | | | | |
| 30 | HU361SS | Factory Included | _ | 20 | _ | 30 | 15 |
| 60 | HU362SS | Factory Included | _ | 50 | _ | 60 | 30 |
| 100 | HU363SS | Factory Included | _ | 75 | _ | 100 | 50 |
| 200 | HU364SS | 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 watertight, corrosion resistant, and impervious to windblown dust, rain, and splashing liquid. The molded fiberglass is extremely stable in a wide range of operating temperatures and can withstand heavy impact. Switches are furnished with hubs, conduit provisions Table 3.41, 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 3.19: Fiberglass Reinforced Polyester Enclosures NEMA Type 4X 3 Pole 600 Vac, 600 Vdc

| | | | | | | Line Side | | Horsepow | ver Ratings- | 3Ø | | |
|-------------|--------------------|----------------------------------|----------------------|---|-----------------------|---------------------------------|----------------------|----------|--------------|------|--------------|-------|
| Amperes | Cat. No. | Solid Neutral Assembly Kit | Class R Fuse Kits | Electrical Interlock Kits Field-Installed Cat. No. | | Barriers Factory Included | 480 Vac [43] 600 Vac | | 600 Vac [43] | | Hubs [42] | |
| | | NIL I | Cat. No. | 1 NO/1 NC Contacts | 2 NO/2 NC Contacts | [39] | | Max. | Std. | Max. | Max. | |
| Fusible—3F | P, 600 Vac, 600 Vo | dc | | | | | | | | | | |
| 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 | _ | 50 | 125 | 60 | 150 | 50 | 2-1/2 |
| Non-Fusible | e—3P, 600 Vac, 6 | 00 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 | — | - | 125 | _ | 150 | 50 | 2-1/2 |

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

[40] Std.-Using fast acting, one time fuses. Max.-Using dual element time delay fuses.

[41] For switching dc use two switching poles.

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

Std.—Using fast acting, one time fuses. Max.—Using dual element time delay fuses. For switching dc use two switching poles. [43]

[44]

Special Applications Class 3110 / Refer to Catalog 3100CT1602



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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 watertight 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 3.20: Krydon™ Enclosures - NEMA Type 4X 3 Pole 600 Vac, 600 Vdc

| | | | Class R Fuse | Electrical In | terlock Kits | | | Но | rsepowe | r Ratings– 3 | 3Ø | 3] Hubs [46] 3/4 1-1/4 2 |
|-------------|----------------|---------------|--------------|--|-----------------------|-------------------------|----|-----------------|--|--------------|----|-----------------------------------|
| Amperes | Cat. No. | Solid Neutral | Kits | Field-Installed Cat. No. Factory Included 480 Va | | 480 Vac [47] 600 Vac [4 | | /ac [47] | 600 Vdc [48] Max. 15 30 50 15 | Hubs [46] | | |
| , mperce | out. No. | Assembly Kit | Cat. No. | 1 NO/1 NC Contact | 2 NO/2 NC Contacts | [45] | | | Max. | 11000 [10] | | |
| 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 | I | 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 | I | 75 | 50 | 2 |

Factory included to prevent inadvertent contact with live parts per UL 869A and NEC service entrance barrier requirements. Two hubs and hub drilling template are provided for field installation. Std.—Using fast acting one time fuses. Max.—Using dual element time delay fuses. [45]

[46]

[47]

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





Interlocked Receptacle Switches

Interlocked Receptacle Switches [49] are furnished with a factory-installed three-phase four-wire Appleton PowertiteTM, Crouse-Hinds Style 2 ArktiteTM, or HubbellockTM receptacle. The fourth wire is connected to the switch equipment grounding terminal and is not a solid neutral termination. Interlocking linkage between the receptacle and switch mechanism prevents insertion or removal of the plug while the switch is in the "ON" position or insertion of any plug other than specified. Grounding lugs are included. See wiring diagram of the switch to verify the UL listed short circuit current rating or the enclosed safety switch catalog.

Appleton Powertite Receptacle

- UL Listed and CSA Certified
- Available in 30 -100 A, 600 Vac/250 Vdc, fused or non-fused, NEMA Type 1, NEMA Type 4/4X/5 stainless steel and NEMA Type 12/3R
- Suitable for use as service equipment (USA only)
- Receptacles are epoxy powder coated over copper-free cast aluminum

Table 3.21: Appleton Powertite Receptacle Switches

| | | NEMA Type 3, 3R, 4, | NEMA Туре | | Horsepower Ratings–3Ø | | | | | |
|-----------------|--------------------|----------------------------------|------------------|--------------------|--------------------------|-----------------|--------|---------|-------|----------------|
| Amperes | NEMA Type 1 | 4X, 5, 12 304 Stainless Steel | 12, 3Ř | Use with Plug [50] | 480 \ | /ac [51] | 600 Va | ac [52] | 250 V | dc [53] |
| | | Enclosure | | | Std. | Max. | Std. | Max. | Std. | Max. |
| Fusible—3P, 600 | Vac, 250 Vdc | | | | | | | | | |
| 30 | H361WA | H361DSWA | H361AWA | ACP3034BC | 5 | 15 | 7-1/2 | 20 | 5 | _ |
| 60 | H362WA | H362DSWA | H362AWA | ACP6034BC | 15 | 30 | 15 | 50 | 10 | _ |
| 100 | H363WA | H363DSWA | H363AWA | ACP1034CD | 25 | 60 | 30 | 75 | 20 | _ |
| Non-Fusible—3P | , 600 Vac, 250 Vdc | | | | | | | | | |
| 30 | HU361WA | HU361DSWA | HU361AWA | ACP3034BC | _ | 20 | - | 30 | | 5 |
| 60 | HU362WA | HU362DSWA | HU362AWA | ACP6034BC | | 50 | _ | 60 | _ | 10 |
| 100 | HU363WA | HU363DSWA | HU363AWA | ACP1034CD | | 75 | _ | 100 | _ | 20 |

Table 3.22: Appleton Powertite 600 Vac Short Circuit Current Rating

| Amperes | 10 kAIR Fuses | 100 kAIR Fuses | 200 kAIR Fuses | 14 kAIR Circuit Breaker | 18kAIR Circuit Breaker |
|-------------------------|------------------|---------------------|-------------------|----------------------------|---------------------------|
| Fusible—3P, 600 Vac, 28 | 50 Vdc | | | | |
| 30 | H, K | _ | J, R | _ | _ |
| 60 | H, K | _ | J, R | _ | _ |
| 100 | H, K | _ | J, R | _ | _ |
| Non-Fusible—3P, 600 Va | ac, 250 Vdc | | | | |
| 30 | H, K | J, R, T <i>[54]</i> | J, R, T | FA | FH |
| 60 | H, K | — | J, R, T | FA | FH |
| 100 | H, K | _ | J, R, T | FA | FH |

- [49] Accessories and Special Features, page 3-16
- [50] Receptacle UL listed for use with Appleton™ ACP or CPH plugs; UL Classified for use with Crouse-Hinds APJ Arktite™ plugs. (see Table 3.23.
- Std.—Using fast acting one time fuses. Max.—Using dual element time delay fuses. Std.—Using fast acting one time fuses. Max.—Using dual element time delay fuses. [51]
- [52]
- For switching dc, use two outside switching poles. [53]
- SCCR when using 60 Amp Max fuse. [54]

Accessories and Special Features

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Crouse-Hinds Arktite Receptacle

- UL Listed
- Available in 30 -100 A, 600 Vac/250 Vdc, fused or non-fused, NEMA Type 1, NEMA Type 4/4X/5 stainless steel and NEMA Type 12/3R
- Suitable for use as service equipment
- Receptacles are cast aluminum, copper free for NEMA Type 1 and NEMA Type 12/3R safety switches
- Receptacles are epoxy powder coated, copper free cast aluminum for NEMA Type 4/4X/5 stainless steel safety switches

Table 3.23: Crouse-Hinds Arktite Safety Switch

| | NEMA Type 1 | NEMA Type 1 004 0 004 0 004 | NEMA Type 12, 3R Use with Plug | | Horsepower Ratings–3Ø | | | | | |
|-------------------|------------------|----------------------------------|--------------------------------|---------------------------|--------------------------|------|-------|---------|---------------------|------|
| Amperes | | 304 Stainless Steel Enclosure | , | 480 Vac [55] 600 Vac [56] | | | | ac [56] | 250 Vdc [57] | |
| | Cat. No. | Cat. No. | Cat. No. | Cat. No. | Std. | Max. | Std. | Max. | Std. | Max. |
| Fusible—3P, 600 V | /ac, 250 Vdc | | | | | | | | | |
| 30 | H361WC | H361DSWC | H361AWC | APJ3485 | 5 | 15 | 7-1/2 | 20 | 5 | _ |
| 60 | H362WC | H362DSWC | H362AWC | APJ6485 | 15 | 30 | 15 | 50 | 10 | _ |
| 100 | H363WC | H363DSWC | H363AWC | APJ10487 | 25 | 60 | 30 | 75 | 20 | _ |
| Non-Fusible—3P, | 600 Vac, 250 Vdc | | | | | | | | | |
| 30 | HU361WC | HU361DSWC | HU361AWC | APJ3485 | — | 20 | _ | 30 | _ | 5 |
| 60 | HU362WC | HU362DSWC | HU362AWC | APJ6485 | — | 50 | - | 60 | _ | 10 |
| 100 | HU363WC | HU363DSWC | HU363AWC | APJ10487 | _ | 60 | _ | 100 | - | 20 |

Table 3.24: Crouse-Hinds 600 Vac Short Circuit Current Rating

| Amperes | 10 kAIR Fuses | 100 kAIR Fuses | 200 kAIR Fuses | 14 kAIR Circuit Breaker | 18kAIR Circuit Breaker |
|------------------------|------------------|----------------------|-------------------|----------------------------|---------------------------|
| Fusible—3P, 600 Vac, 2 | 50 Vdc | | | | |
| 30 | H, K | — | J, R | _ | _ |
| 60 | H, K | — | J, R | | _ |
| 100 | H, K | — | J, R | | _ |
| Non-Fusible—3P, 600 V | ac, 250 Vdc | | | | |
| 30 | H, K | J, R, T <i>[</i> 58] | J, R, T | FA | FH |
| 60 | H, K | _ | J, R, T | FA | FH |
| 100 | H, K | — | J, R, T | FA | FH |

UL Listed

Hubbellock Receptacle

- Available in 30 -100 A, 600 Vac/250 Vdc, fused or non-fused, NEMA Type 1, and NEMA Type 12
- Suitable for use as service equipment [59]
- Receptacles are zinc plated steel for NEMA Type 1 and 12 safety switches
- Short Circuit Current Rating for fusible switches is 10 kAIR maximum when used with Class H, K, J or R fuses
- · Short Circuit Current Rating for non-fusible switches is 10 kAIR maximum when protected by Class H, K, J, R or T fuses

Table 3.25: Hubbellock Receptacle Safety Switch

| | NEMA | NEMA | Use with Plug [60] | eo, H | | Ratings—3Ø | |
|---------------------|----------|----------|--------------------|-------|---------|------------|---------|
| Amperes | Type 1 | Type 12 | | 480 V | ac [56] | 600 Va | ac [56] |
| | Cat. No. | Cat. No. | Cat. No. | Std. | Max. | Std. | Max. |
| Fusible—3P, 600 Vac | | | | | | | |
| 60 | H362WH | H362AWH | SD12781 | 15 | 30 | 15 | 50 |
| Non-Fusible—3P, 600 | Vac | | | | | | |
| 60 | HU362WH | HU362AWH | SD12781 | _ | 50 | _ | 60 |

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 3.26: Rainproof Bolt-On Hubs [61]

| 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 |

- [55] Std.—Using fast acting one time fuses. Max.—Using dual element time delay fuses.
- [56] Std.-Using fast acting one time fuses. Max.-Using dual element time delay fuses.
- [57] For switching dc, use two outside switching poles.
- [58] SCCR when using 60 Amp Max fuse.
- [59] Receptacle only rated for NEMA Type 1 and 12 applications.
- [60] Hubbell plug is furnished with a Kellems grip for 1-1/2 in. to 1-21/64 in. cable diameter.
 [61] Gaskets are provided on 3 in. and larger hubs.



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Accessories and Special Features

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Watertight Hubs

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

Watertight Hubs

Table 3.27: Watertight Hubs [62]

| | •••••••••••••••••••••••••••••••••••••• | | | | | | | | | |
|-------------------------------|--|--------|--------|--------|--------|--------|-------|------|-------|------|
| 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.

Table 3.28: Electrical Interlock Kit [63] [64]



EIK2 Electrical Interlock Kit

Switch peres Rating Electrical Inter Cat. No. [6 Series Number [65] Amr EIK031 30 F5-F6 60 EIK1 F5–F6 (600 V) EIK2 60 (240 V) EIK031 F5-F6 EIK03 EIK1 100-200 F5–F6 FIK2 30-100 EIK1 E5-E7 Receptable Switches EIK2 30-200 EIK1 F5–F6 Four- and Six-Pole Switches FIK2 EIK4060⁻ 400-1200 F4_F5 EIK40602

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 3.29: 240 Vac — Class R Fuse Kits [67]

| 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 3.30: 600 Vac — Class R Fuse Kits [67] [68]

| Amperes | Series Number | Class R Fuse Kit Cat. No. |
|-----------------------------|---------------|------------------------------|
| 30 [69] | F5–F6 | RFK03H |
| 30 A Receptacle Switches | F7 | RFK06 |
| 30 A Four-Pole Switches | F5F6 | RFK06 |
| 60 | F5–F7 | RFK06H |
| 100 | F5–F7 | RFK10 |
| 200 | F5–F6 | HRK1020 |
| 400–600 | E4–E5 | HRK4060 |

[62] Gaskets are provided.

- [63] For series not shown in table refer to the switch wiring diagram.
- [64] Electrical interlocks for NEMA Type 4X fiberblass reinforced polyester and Krydon™ see Table 3.19 and Table 3.20 respectively.

[65] See page 3-22 and page 3-23 for safety switch series.

[66] 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.

I671 For series not shown in the table, refer to the switch wiring diagram.

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

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

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Accessories and Special Features



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Line Side Barrier Kit

The field instable line side barrier kits are required to meet the code for service entrance applications. Barrier kits prevent accidental contact with line side, un-insullated, ungrounded or service terminal live parts.

Table 3.31: 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 |

SAFETY SWITCHES

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 "finger safe" 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.

|--|

| Cat. No. | Description | Blades / Fuses | Safety Switch Application |
|---|-----------------------------------|----------------|--|
| SS03 [70] | Barriers for Heavy Duty | 2 or 3 | 240 / 600 V – 30 A 240 V – 60 A |
| SS06[71] | Barriers for Heavy Duty | 2 or 3 | 600 Vac – 60 A |
| SS10 [71] | 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[71] QTY (3) 4056677550[70] | Barriers for Heavy Duty | 3 | 240 V — 200 A |
| SS20 [71] | 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 [72] | 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 [72] | 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 and 12K, NEMA Type 4/4X/5 stainless steel, NEMA Type 4X fiberglass reinforced polyester and KrydonTM. Fuse Puller Kit available for field installation on NEMA Type 1 and NEMA 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 [73] | Fuse Puller Kit Cat. No. |
|----------|-----------------------------|--------------------------|
| 30 | F5–F7 | FPK03 [74] |
| 60 60 | F5–F7 (600 V) F5 (240 V) | FPK0610 FPK03 |
| 100 | F5–F7 | FPK0610 |

[70] Can only be applied to F series.

[71] Can only be applied to F series.

[72] Must buy line side also

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

[74] 30 A 4 pole, H361-2 and H361-2RB Series F5, H361WA and H361WC Series F6 use FPK0610.



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Solid Neutral Assembly Kits

Table 3.33: Solid Neutral Assembly Kits[75] [76] [77] [78]

| Amperes | Series Number [79] | Standard Neutral Kit Cat. No. | Terminal Data AWG/kcmil | Optional Copper Only Neutral Kit Cat. No. | Terminal Data AWG/kcmil |
|-------------|--------------------|-------------------------------|---|--|--|
| 30 | F5–F6 | SN03 [80] | (2) 14-3 Al/Cu plus (1) 14-3 Al/Cu Svc Ground | SN03C [80] | (2) 14-6 Cu plus (1) 14-6 Cu Svc Ground |
| 60 | F5–F6, (600 V) | SN0610 | (2) 14-6 Al/Cu SVC Glouinu | | (2) 14-1/0 Cu plus (2) 14-6 Cu Svc Ground |
| 60 | 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 | 10 (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 [81] | 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 | 3/0-750 Al/Cu plus 50 Al/Cu Svc Ground - | |
| 1200 | E4 | H1200SNE4 | (8) 3/0-750 Al/Cu plus (2) 6-350 Al/Cu Svc Ground | - | _ |

Equipment Grounding Kits

Equipment grounding kits are available for field installation.

Table 3.34: Equipment Grounding Kits and Terminal Data [82] [83]

| Amperes | Series Number | Standard Cat. No. | Terminal Data AWG/kcmil | Optional Copper Only Cat. No. | Terminal Data AWG/kcmil |
|-------------|------------------|----------------------|---|----------------------------------|----------------------------------|
| 30 | F5–F6 | GTK03 [84] | (2) 14-4 Cu or (2) 12-4 Al or (4) 14-12 Cu or (4) 12-10 Al | GTK03C [84] [85] | (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 [86] | (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 all 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 prevents 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 3.35: Lock-Off Guard Kits

| Switch Rating | Cat. No. | | |
|---------------|----------|--|--|
| 30 A | LOCK1 | | |
| 60 A 240 V | LOGK1 | | |
| 60 A 600 V | LOGK2 | | |
| 100 and 200 A | LUGK2 | | |

Optional Lock-OFF Guard Kit Installed

- [75] For series not shown in chart refer to the switch wiring diagram
- [76] For solid Neutral Assembly Kits for Krydon ™ enclosure see Table 3.20.
- For Solid Neutral Assembly Kits for Fiberglass Reinforced Ployester enclosures see Table 3.19. [77]
- 1781 Neutrals cannot be installed in 4 or 6 pole switches or receptable switches
- See page 3-22 and page 3-23 for safety switch series [79]
- [80] The following 30 A Series F5-F6 switches use SN0610 or SN0610C: H3612, H3612RB, H3612A, H3612AWK, HU3612, HU3612RB, HU3612A and HU3612AWK.
- [81] For 200% neutral, order (2) SN20A Neutral Kits and (1) SN20NI Neutral Jumper Kit.
- [82] For series not shown in table refer to the switch wiring diagram.
- [83] Equipment Ground Kits (AI/Cu) are factory installed standard in 30-200 A Series F NEMA Type 4/4X/5 (stainless steel), 12 and 12K. Equipment Ground Kits are standard factory installed on all receptacle switches and all Series F 30-200 A, 4 and 6 pole switches.
- H2212AWK accepts GTK03 or GTK03C. H3612A or AWK accepts GTK03C. H3612 and H3612RB accepts GTK0610 HU3612AWK accepts GTK03C. HU3612A accepts GTK0610C. [84] HU3612RB accepts GTK0610 or GTK0610C
- 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. [85] 1861 Two required if equipment grounding conductors are run in parallel.

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3

Heavy Duty Safety Switches

Accessories and Special Features Class 3110 / Refer to Catalog 3100CT1602

SQUARE D

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Key Interlock Systems

Key Interlock System

ω

SAFETY SWITCHES

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

Cover Viewing Window

Optional cover viewing window is positioned over the blades to allow visual verification of "ON-OFF" status. Available on 30 through 1200 A heavy duty switches, NEMA Type 1, 3R, 4/4X/5 Stainless Steel, 12 and 12K. (Not available on NEMA Type 4X, Fiberglass, Krydon or NEMA Type 7 and 9 switches). Add VW suffix to the catalog number for factory installation.

Voltage Monitors

Voltage monitors installed on safety switches indicate when voltage is present, helping to prevent arc-flash hazards and electric shocks 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 Krydon™ switches

Table 3.36: Voltage Monitors [87] [88] [89]

| Description | Suffix [90] |
|-----------------------------|-------------|
| Line Side Monitor | SI |
| Load Side Monitor | L |
| Line and Load Side Monitors | L12 |

Copper Lug Kits

- Lug kits that accept only copper wire are available for field or factory installation:
- ULListed
- 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 lona
- 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 3.37: Copper Lug Kits [91]

| 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 | _ | _ |

Available on 30-1200 A Heavy Duty Safety Switches [87]

- [88] Order 600 Vac Heavy Duty Safety Switch for all 30-60 A 240 Vac applications.
- 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. [89]
- In addition to the suffix shown in the table above, a 3 must be added to the switch catalog number for all 30 and 60 A switches, i.e. H361AWK becomes H3613AWKLI. 30 and 60 A switches [90] require 100 A enclosure accessories. Double Throw Safety Switches are exempt from this requirement.
- [91] One kit includes all phase line/load lugs for a 3-pole switch. CL0306F, CL10F and CL20F includes six lugs. CL40F and CL60F includes twelve lugs









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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 UL Listed. Not listed on switch's wiring diagram as an accessory.

Table 3.38: Double Lug Kits

| Amperes | Cat. No. [92] | 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 available for factory installation; Add suffix LK
 to standard catalog number
- Compression Lug Kits contain VCEL07512H1 Versa-Crimp™ compression lugs
 - Order one Compression Lug Kit per switching pole and/or neutral (see Table below)

Table 3.39: 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 (AI) or 500 kcmil (CU) |
| 1200 | H12LKE2 | (4) Line and (4) Load | 500-750 kcmil (AI) or 500 kcmil (CU) |

Table 3.40: Terminal Lug Data [93]

| 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 <i>[94]</i> Compression Lug Field-Installed | Optional Copper Only [94] Compression Lug Field- Installed [95] |
|------------|--------------------------------|---|--|---|---|
| 30 | 1 | 12–6 (Al) or 14–6 (Cu) | 12–2 (Al) or | C10–14, [96] D8–14–SK, | _ |
| | 2 | 12–10 (Al) or 14–10 (Cu) | 14–2 (Cu) | E6–14 | |
| 60 [97] | 1 | 12–3 (Al) or 14–3 (Cu) | 12–2 (Al) or 14–2 (Cu) | C10–14, <i>[96]</i> D8–14–SK, or E6–14 | _ |
| 100 [98] | 1 | 12–1/0 (Al) or 14–1/0 (Cu) | 12–1/0 (Al) or 14–1/0 (Cu) | VCEL02114S1 | VCELC02114S1 |
| 200 [99] | 1 | 6–250 (Al/Cu) | 6–300 (Al/Cu) | VCEL030516H1 | VCELC030516H1 |
| 400 [100] | 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 [101] and VCEL05012H1 | VCELC07512H1 or VCELC030516H1 [102] and VCELC05012H1 |
| 600 | 2 | 3/0–500 (Al/Cu) | 3/0-500 (Al/Cu) | VCEL05012H1 | VCELC05012H1 |
| 800 | 3 | 3/0-750 (Al/Cu) | 3/0-750 (Al/Cu) | H8LKE2 [103] | _ |
| 1200 | 4 | 3/0-750 (Al/Cu) | 3/0-750 (Al/Cu) | H12LKE2 [103] | _ |

Table 3.41: Conduit Provisions

| A | Top and Bottom Endwall | | | | | | | |
|----------|--|-------------------------|--|--|--|--|--|--|
| Amperes | NEMA Type 4X Fiberglass Reinforced Polyester and Krydon [104] | NEMA Type 7 and 9 [105] | | | | | | |
| 30 | 3/4 in. | _ | | | | | | |
| 60 | 1-1/4 in. | 3/4 in. | | | | | | |
| 100 | 2 in. | 1-1/4 in. | | | | | | |
| 200 | 2-1/2 in. | 2-1/2 in. | | | | | | |

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

- [93] 30–100 A switches suitable for 60°C or 75°C conductors. 200–1200 A switches suitable for 75°C conductors.
- [94] Hubbell Versa-Crimp™ unless otherwise noted.
- [95] For NEMA Type 1, 12/3R, 12K and 4/4X/5 stainless steel switches only.
- [96] Order from Thomas and Betts.
- [97] H60XFA and H60XFA1212 use 75°C copper wire only. #6 AWG copper wire required for 60 A rating.
- [98] H100XFA and H100XFA1212 use 75°C copper wire only. #3 AWG copper wire required for 100 A rating.
- [99] 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).
 [100] 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.
- [101] 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.
- [102] Order two PK516KN mounting kits when installing VCEL030516H1 or VCELC030516H1 lugs. Only one kit is required on 2 pole switches. PK516KN consists of (4) 5/16-18 Keps Nuts.

[103] For 800 and 1200 A compression lug kits see Table 3.39 for additional information.

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

[105] Threaded conduit opening.

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NEMA Type 1 and 3R See Table 3.40 Terminal Lug Data, page 3-21 for terminal lug data for the series switches listed in the dimension table below.

Table 3.42: Approximate Dimensions

| | | | | | N | Г | | 10 | //H | | | | - | V | N | | | W | /14 |
|-----------------|----------|----------------|--------------|----------------|------------|----------------|------------|----------------|------------|------------------|----------|----------------|-------------|----------------|------------|---------------|------------|----------------|------------|
| Cat. No. | Series | in. | | | | | | | | Cat. No. | Series | in. | _ | | - | | | in. | |
| H221N | F5 | 14.60 | mm 371 | in. 6.50 | mm 165 | in. 4.88 | mm 124 | in. 7.55 | mm 192 | H363 | F5 | 21.25 | mm 540 | in. 8.50 | mm 216 | in. 6.38 | mm 162 | 10.50 | mm 267 |
| H221NRB | F5 | 14.88 | 378 | 6.63 | 168 | 4.88 | 124 | 7.55 | 192 | H363N | F5 | 21.25 | 540 | 8.50 | 210 | 6.38 | 162 | 10.50 | 267 |
| H222N | F5 | 14.60 | 371 | 6.50 | 165 | 4.88 | 124 | 7.55 | 192 | H363NRB | F5 | 21.25 | 540 | 8.50 | 216 | 6.38 | 162 | 10.50 | 267 |
| H222NRB | F5 | 14.88 | 378 | 6.63 | 168 | 4.88 | 124 | 7.55 | 192 | H363RB | F5 | 21.25 | 540 | 8.50 | 216 | 6.38 | 162 | 10.50 | 267 |
| H223N | F5 | 21.25 | 540 | 8.50 | 216 | 6.38 | 162 | 10.50 | 267 | H363WA | F6 | 21.85 | 462 | 9.00 | 229 | 6.81 | 173 | 10.50 | 267 |
| H223NRB | F5 | 21.25 | 540 | 8.50 | 216 | 6.38 | 162 | 10.50 | 267 | H363WC | F6 | 21.85 | 555 | 9.00 | 229 | 6.81 | 173 | 10.50 | 267 |
| H224N | F5 | 29.00 | 737 | 17.13 | 435 | 8.25 | 210 | 18.50 | 470 | H364 | F5 | 29.00 | 737 | 17.13 | 435 | 8.25 | 210 | 18.50 | 470 |
| H224NRB | F5 | 29.25 | 743 | 17.25 | 438 | 8.50 | 216 | 18.63 | 473 | H364N | F5 | 29.00 | 737 | 17.13 | 435 | 8.25 | 210 | 18.50 | 470 |
| H225 | E4 | 50.25 | 1276 | 27.63 | 702 | 10.13 | 257 | 27.63 | 702 | H364RB | F5 | 29.25 | 743 | 17.25 | 438 | 8.50 | 216 | 18.63 | 473 |
| H225N | E4 | 50.25 | 1276 | 27.63 | 702 | 10.13 | 257 | 27.63 | 702 | H364NRB | F5 | 29.25 | 743 | 17.25 | 438 | 8.50 | 216 | 18.63 | 473 |
| H225NR | E5 | 50.31 | 1278 | 27.76 | 705 | 9.53 | 242 | 27.88 | 708 | H365 | E4 | 50.25 | 1276 | 27.63 | 702 | 10.13 | 257 | 27.63 | 702 |
| H225R | E5 | 50.31 | 1278 | 27.76 | 705 | 9.53 | 242 | 27.88 | 708 | H365N | E4 | 50.25 | 1276 | 27.63 | 702 | 10.13 | 257 | 27.63 | 702 |
| H226 | E4 | 50.25 | 1276 | 27.63 | 702 | 10.13 | 257 | 27.63 | 702 | H365R | E5 | 50.31 | 1278 | 27.76 | 705 | 9.53 | 242 | 27.88 | 708 |
| H226N | E4 | 50.25 | 1276 | 27.63 | 702 | 10.13 | 257 | 27.63 | 702 | H365NR | E5 | 50.31 | 1278 | 27.76 | 705 | 9.53 | 242 | 27.88 | 708 |
| H226NR | E5 | 50.31 | 1278 | 27.76 | 705 | 9.53 | 242 | 27.88 | 708 | H366 | 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 | H366N | E4 | 50.25 | 1276 | 27.63 | 702 | 10.13 | 257 | 27.63 | 702 |
| H227, N | 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 |
| H227N | 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 |
| H227NR | 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 |
| H227R | 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 |
| H228 | 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 |
| H228N | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 | H367R | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 |
| H228NR | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 | H368 | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 |
| H228R | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 | H368N | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 |
| H265 | E4 | 50.25 | 1276 | 27.63 | 702 | 10.13 | 257 | 27.63 | 702 | H368NR | 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 | H368R | 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 | H461 | F5 | 20.50 | 521 | 14.75 | 375 | 6.85 | 174 | 16.13 | 410 |
| H266R | E5 | 50.31 | 1278 | 27.76 | 705 | 9.53 | 242 | 27.88 | 708 | H462 | F5 | 20.50 | 521 | 14.75 | 375 | 6.85 | 174 | 16.13 | 410 |
| H267 | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 | H463 | F5 | 20.50 | 521 | 14.75 | 375 | 6.85 | 174 | 16.13 | 410 |
| H267R H268 | E4 E4 | 69.13 69.13 | 1756 1756 | 36.62 | 930 930 | 17.75 17.75 | 451 451 | 36.62 | 930 930 | H464 H465 | F5 E4 | 29.00 50.25 | 737 1276 | 23.25 | 591 861 | 8.75 10.13 | 222 | 24.88 | 632 861 |
| H268R | E4 E4 | 69.13 | 1756 | 36.62 36.62 | 930 | 17.75 | 451 | 36.62 36.62 | 930 | H465 | E4 E4 | 50.25 | 1276 | 33.88 33.88 | 861 | 10.13 | 257 257 | 33.88 33.88 | 861 |
| H321N | F5 | 14.60 | 371 | 6.50 | 165 | 4.88 | 124 | 7.55 | 1930 | HU265 | E4 E4 | 50.25 | 1276 | 27.63 | 702 | 10.13 | 257 | 27.63 | 702 |
| H321NRB | F5 | 14.88 | 378 | 6.63 | 168 | 4.88 | 124 | 7.55 | 192 | HU265R | E5 | 50.23 | 1278 | 27.76 | 702 | 9.53 | 242 | 27.88 | 702 |
| H322N | F5 | 14.60 | 371 | 6.50 | 165 | 4.88 | 124 | 7.55 | 192 | HU266 | E4 | 50.25 | 1276 | 27.63 | 703 | 10.13 | 257 | 27.63 | 708 |
| H322NRB | F5 | 14.88 | 378 | 6.63 | 168 | 4.88 | 124 | 7.55 | 192 | HU266R | E5 | 50.31 | 1278 | 27.76 | 705 | 9.53 | 242 | 27.88 | 708 |
| H323N | F5 | 21.25 | 540 | 8.50 | 216 | 6.38 | 162 | 10.50 | 267 | HU267 | 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 | HU267R | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 |
| H324N | F5 | 29.00 | 737 | 17.13 | 435 | 8.25 | 210 | 18.50 | 470 | HU268 | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 |
| H324NRB | F5 | 29.25 | 743 | 17.25 | 438 | 8.50 | 216 | 18.63 | 473 | HU268R | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 |
| H325 | E4 | 50.25 | 1276 | 27.88 | 708 | 10.13 | 257 | 27.88 | 708 | HU361 | F5 | 14.60 | 371 | 6.50 | 165 | 4.88 | 124 | 7.55 | 192 |
| H325N | E4 | 50.25 | 1276 | 27.88 | 708 | 10.13 | 257 | 27.88 | 708 | HU361RB | F5 | 14.88 | 378 | 6.63 | 168 | 4.88 | 124 | 7.55 | 192 |
| H325R | E5 | 50.31 | 1278 | 27.76 | 705 | 9.53 | 242 | 27.88 | 708 | HU361WA | F6 | 18.19 | 462 | 9.00 | 229 | 6.81 | 173 | 10.50 | 267 |
| H325NR | E5 | 50.31 | 1278 | 27.76 | 705 | 9.53 | 242 | 27.88 | 708 | HU361WC | F6 | 18.19 | 462 | 9.00 | 229 | 6.81 | 173 | 10.50 | 267 |
| H326 | E4 | 50.25 | 1276 | 27.63 | 702 | 10.13 | 257 | 27.63 | 702 | HU362 | F5 | 17.50 | 445 | 9.00 | 229 | 6.38 | 162 | 10.50 | 267 |
| H326N | E4 | 50.25 | 1276 | 27.63 | 702 | 10.13 | 257 | 27.63 | 702 | HU362RB | F5 | 17.50 | 445 | 9.00 | 229 | 6.38 | 162 | 10.50 | 267 |
| H326R | E5 | 50.31 | 1278 | 27.76 | 705 | 9.53 | 242 | 27.88 | 708 | HU362WA | F6 | 18.19 | 462 | 9.00 | 229 | 6.81 | 173 | 10.50 | 267 |
| H326NR | E5 | 50.31 | 1278 | 27.76 | 705 | 9.53 | 242 | 27.88 | 708 | HU362WC | F6 | 16.75 | 425 | 9.00 | 229 | 7.00 | 178 | 10.50 | 267 |
| H327 | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 | HU362WH | F5 | 18.19 | 462 | 9.00 | 229 | 6.81 | 173 | 10.50 | 267 |
| H327N | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 | HU363 | F5 | 21.25 | 540 | 8.50 | 216 | 6.38 | 162 | 10.50 | 267 |
| H327R | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 | HU363RB | F5 | 21.25 | 540 | 8.50 | 216 | 6.38 | 162 | 10.50 | 267 |
| H327NR | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 | HU363WA | F6 | 21.85 | 462 | 9.00 | 229 | 6.81 | 173 | 10.50 | 267 |
| H328 | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 | HU363WC | F6 | 21.85 | 555 | 9.00 | 229 | 6.81 | 173 | 10.50 | 267 |
| H328N H328R | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 | HU364 | F5 F5 | 29.00 29.25 | 737 | 17.13 17.25 | 435 | 8.25 8.50 | 210 216 | 18.50 18.63 | 470 |
| H328R H328NR | E4 E4 | 69.13 69.13 | 1756 1756 | 36.62 36.62 | 930 930 | 17.75 17.75 | 451 451 | 36.62 36.62 | 930 930 | HU364RB HU365 | E4 | 29.25 | 743 1276 | 27.63 | 438 702 | 8.50 | 216 | 27.63 | 473 702 |
| H361 | F5 | 14.60 | 371 | 6.50 | 165 | 4.88 | 124 | 7.55 | 1930 | HU365R | E4 E5 | 50.25 | 1278 | 27.03 | 702 | 9.53 | 242 | 27.88 | 702 |
| H361N | F5 | 14.60 | 371 | 6.50 | 165 | 4.88 | 124 | 7.55 | 192 | HU366 | E3 E4 | 50.31 | 1276 | 27.63 | 705 | 10.13 | 257 | 27.63 | 708 |
| H361-2 | F5 F5 | 17.50 | 445 | 9.00 | 229 | 6.38 | 162 | 10.50 | 267 | HU366R | E4 E5 | 50.25 | 1278 | 27.03 | 702 | 9.53 | 242 | 27.88 | 702 |
| H361NRB | F5 | 14.88 | 378 | 6.63 | 168 | 4.88 | 124 | 7.55 | 192 | HU367 | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 |
| H361RB | F5 | 14.88 | 378 | 6.63 | 168 | 4.88 | 124 | 7.55 | 192 | HU367R | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 |
| H361WA | F6 | 18.19 | 462 | 9.00 | 229 | 6.81 | 173 | 10.50 | 267 | HU368 | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 |
| H361WC | F6 | 18.19 | 462 | 9.00 | 229 | 6.81 | 173 | 10.50 | 267 | HU368R | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 |
| H362 | F5 | 17.50 | 445 | 9.00 | 229 | 6.38 | 162 | 10.50 | 267 | HU461 | F5 | 20.50 | 521 | 14.75 | 375 | 6.85 | 174 | 16.13 | 410 |
| H362N | F5 | 17.50 | 445 | 9.00 | 229 | 6.38 | 162 | 10.50 | 267 | HU462 | F5 | 20.50 | 521 | 14.75 | 375 | 6.85 | 174 | 16.13 | 410 |
| H362RB | F5 | 17.50 | 445 | 9.00 | 229 | 6.38 | 162 | 10.50 | 267 | HU463 | F5 | 20.50 | 521 | 14.75 | 375 | 6.85 | 174 | 16.13 | 410 |
| H362WA | F6 | 18.19 | 462 | 9.00 | 229 | 6.81 | 173 | 10.50 | 267 | HU464 | F5 | 29.00 | 737 | 23.25 | 591 | 8.75 | 222 | 24.88 | 632 |
| H362WC | F6 | 16.75 | 425 | 9.00 | 229 | 7.00 | 178 | 10.50 | 267 | HU465 | E4 | 50.25 | 1276 | 33.88 | 861 | 10.13 | 257 | 33.88 | 861 |
| H362WH | F5 | 18.19 | 462 | 9.00 | 229 | 6.81 | 173 | 10.50 | 267 | HU466 | E4 | 50.25 | 1276 | 33.88 | 861 | 10.13 | 257 | 33.88 | 861 |

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Dimensions for Heavy Duty Safety

Switches Class 3110 / Refer to Catalog 3100CT1602

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

See Table 3.40 Terminal Lug Data, page 3-21 for terminal lug data for the series switches listed in the dimension table below.

Table 3.43: Approximate Dimensions

| Table 5.45. Ap | | | | v | v | |) | W | /H | | Ser- | | 1 | V | v | l I |) | N | //H |
|---------------------|------------|----------------|--------------|----------------|------------|----------------|------------|----------------|------------|------------------------|-----------------|----------------|--------------|----------------|------------|----------------|------------|----------------|------------|
| Cat. No. | Series | in. | mm | in. | mm | in. | mm | in. | mm | Cat. No. | ies | in. | mm | in. | mm | in. | mm | in. | mm |
| H60XFA | E1 | 15.93 | 405 | 9.87 | 251 | 6.96 | 177 | 9.87 | 251 | H363SS | F6 | 20.82 | 529 | 9.36 | 238 | 6.97 | 177 | 11.25 | 286 |
| H100XFA | E1 | 15.93 | 405 | 9.87 | 251 | 6.96 | 177 | 9.87 | 251 | H364A | F6 | 29.00 | 737 | 17.25 | 438 | 8.75 | 216 | 18.63 | 473 |
| H221A | F6 | 14.60 | 371 | 6.63 | 168 | 4.96 | 125 | 7.55 | 192 | H36AWK | F6 | 29.00 | 737 | 17.25 | 438 | 8.75 | 216 | 18.63 | 473 |
| H221AWK | F6 | 14.60 | 371 | 6.63 | 168 | 4.96 | 125 | 7.55 | 192 | H364DS | F6 | 29.00 | 737 | 17.75 | 451 | 8.88 | 226 | 19.25 | 489 |
| H221DS H221-2AWK | F6 F6 | 14.93 16.50 | 379 419 | 7.22 9.00 | 183 229 | 5.11 7.00 | 130 178 | 8.67 10.50 | 220 267 | H364NDS H364NA | F6 F6 | 29.00 29.00 | 737 737 | 17.75 17.25 | 451 438 | 8.88 8.75 | 226 216 | 19.25 18.63 | 489 473 |
| H222A | F6 | 14.60 | 371 | 6.63 | 168 | 4.96 | 125 | 7.55 | 192 | H364NAWK | F6 | 29.00 | 737 | 17.25 | 438 | 8.75 | 210 | 18.63 | 473 |
| H222AWK | F6 | 14.60 | 371 | 6.63 | 168 | 4.96 | 125 | 7.55 | 192 | H364DF | E1 | 31.30 | 795 | 26.30 | 668 | 11.80 | 300 | 26.30 | 668 |
| H222DS | F6 | 14.93 | 379 | 7.22 | 183 | 5.11 | 130 | 8.67 | 220 | H364SS | F6 | 29.00 | 737 | 17.75 | 451 | 8.88 | 226 | 19.25 | 489 |
| H223A | F6 | 20.50 | 521 | 9.00 | 229 | 7.00 | 178 | 10.50 | 267 | H365AWK | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 |
| H223AWK | F6 | 20.50 | 521 | 9.00 | 229 | 7.00 | 178 | 10.50 | 267 | H365DS | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 |
| H223DS | F6 | 20.82 | 529 | 9.36 | 238 | 6.97 | 177 | 11.25 | 286 | H365NAWK | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 |
| H224A | F6 | 29.00 | 737 | 17.25 | 438 | 8.75 | 216 | 18.63 | 473 | H365NDS | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 |
| H224AWK | F6 | 29.00 | 737 | 17.25 | 438 | 8.75 | 216 | 18.63 | 473 | H366AWK | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 |
| H224DS H225AWK | F6 E4 | 29.00 46.25 | 737 1175 | 17.75 26.25 | 451 667 | 8.88 10.13 | 226 259 | 19.25 26.25 | 489 667 | H366DS H366NAWK | E5 E5 | 46.25 46.25 | 1175 1175 | 26.25 26.25 | 667 667 | 10.13 10.13 | 259 259 | 26.25 26.25 | 667 667 |
| H225NAWK | E4 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 | H366NDS | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 |
| H225NDS | E4 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 | H366SS | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 |
| H225XJG | A1 | 22.56 | 573 | 10.88 | 276 | 7.75 | 197 | 10.88 | 276 | H367AWK | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 |
| H226AWK | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 | H367NAWK | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 |
| H226DS | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 | H368AWK | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 |
| H226NDS | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 | H368NAWK | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 |
| H226NAWK | E5 | 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 |
| H227AWK H227NAWK | E4 E4 | 69.13 69.13 | 1756 1756 | 36.62 36.62 | 930 930 | 17.75 17.75 | 451 451 | 36.62 36.62 | 930 930 | H461DS H462AWK | F6 F6 | 20.82 20.50 | 529 521 | 15.08 14.75 | 383 375 | 6.97 6.80 | 177 173 | 16.85 16.13 | 428 410 |
| H227NAWK H228AWK | E4 E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 | H462AVVK H462DS | F6 | 20.50 | 521 | 14.75 | 375 | 6.80 | 173 | 16.13 | 410 |
| H228NAWK | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 | H463AWK | F6 | 20.52 | 529 | 14.75 | 375 | 6.80 | 173 | 16.13 | 410 |
| H265AWK | 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 |
| H265DS | 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 |
| H266AWK | 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 |
| H266A | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 | H465AWK | E5 | 46.25 | 1175 | 32.50 | 826 | 10.13 | 259 | 32.50 | 826 |
| H266DS | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 | H663AWK | F6 | 20.50 | 521 | 14.75 | 375 | 6.80 | 173 | 16.13 | 410 |
| H267AWK H267NAWK | E4 E4 | 69.13 69.13 | 1756 1756 | 36.62 36.62 | 930 930 | 17.75 17.75 | 451 451 | 36.62 36.62 | 930 930 | H663DS H664AWK | F6 F6 | 20.82 29.00 | 529 737 | 15.08 23.25 | 383 591 | 6.97 8.75 | 177 222 | 16.85 24.88 | 428 632 |
| H268AWK | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 | H664DS | F6 | 29.00 | 737 | 23.75 | 603 | 8.88 | 226 | 25.25 | 641 |
| H268NAWK | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 | HU265AWK | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 |
| H321AWK | F6 | 14.60 | 371 | 6.63 | 168 | 4.96 | 125 | 7.55 | 192 | HU265DS | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 |
| H321A | F6 | 14.60 | 371 | 6.63 | 168 | 4.96 | 125 | 7.55 | 192 | HU266AWK | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 |
| H321DS | F6 | 14.93 | 379 | 7.22 | 183 | 5.11 | 130 | 8.67 | 220 | HU266DS | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 |
| H322AWK | F6 | 14.60 | 371 | 6.63 | 168 | 4.96 | 125 | 7.55 7.55 | 192 | HU267AWK | <u>E4</u> E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 |
| H322A H322DS | F6 F6 | 14.60 14.93 | 371 379 | 6.63 7.22 | 168 183 | 4.96 5.11 | 125 130 | 8.67 | 192 220 | HU268AWK HU361AWA | E4 F7 | 69.13 16.50 | 1756 419 | 36.62 9.00 | 930 229 | 17.75 7.00 | 451 178 | 36.62 10.50 | 930 267 |
| H323AWK | F6 | 20.50 | 521 | 9.00 | 229 | 7.00 | 178 | 10.50 | 267 | HU361AWC | F7 | 16.50 | 419 | 9.00 | 229 | 7.00 | 178 | 10.50 | 267 |
| H323A | F6 | 20.50 | 521 | 9.00 | 229 | 7.00 | 178 | 10.50 | 267 | HU361A | F6 | 14.60 | 371 | 6.63 | 168 | 4.96 | 125 | 7.55 | 192 |
| H323DS | F6 | 20.82 | 529 | 9.36 | 238 | 6.97 | 177 | 11.25 | 286 | HU361AWK | F6 | 14.60 | 371 | 6.63 | 168 | 4.96 | 125 | 7.55 | 192 |
| H324A | F6 | 29.00 | 737 | 17.25 | 438 | 8.75 | 216 | 18.63 | 473 | HU361DS | F6 | 14.93 | 379 | 7.22 | 183 | 5.11 | 130 | 8.67 | 220 |
| H324AWK H324DS | F6 F6 | 29.00 29.00 | 737 737 | 17.25 17.75 | 438 451 | 8.75 8.88 | 216 226 | 18.63 19.25 | 473 489 | HU361DSWA HU361DSWC | F7 F7 | 16.87 16.87 | 428 428 | 8.92 8.92 | 227 227 | 5.11 5.11 | 130 130 | 10.81 10.79 | 275 274 |
| H325AWK | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 | HU361DF | 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 | HU361DX | 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 | HU361SS | F6 | 14.93 | 379 | 7.22 | 183 | 5.11 | 130 | 8.67 | 220 |
| H325NDS | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 | HU362DSWA | F7 | 16.87 | 428 | 8.92 | 227 | 5.11 | 130 | 10.81 | 275 |
| H326AWK H326DS | E5 | 46.25 46.25 | 1175 1175 | 26.25 26.25 | 667 667 | 10.13 10.13 | 259 259 | 26.25 26.25 | 667 | HU362DSWC HU362DF | F7 F1 | 16.87 16.50 | 428 419 | 8.92 11.00 | 227 279 | 5.11 8.80 | 130 224 | 10.79 11.00 | 274 279 |
| H326NAWK | E5 E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 667 | HU362DX | F1 | 19.40 | 493 | 11.40 | 290 | 8.60 | 218 | 11.40 | 279 |
| H326DS | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 | HU362SS | F6 | 16.87 | 428 | 8.92 | 227 | 6.97 | 177 | 10.81 | 275 |
| H326NAWK | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 | HU363AWA | F7 | 20.50 | 521 | 9.00 | 229 | 7.00 | 178 | 10.50 | 267 |
| H326NDS | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 | HU363AWC | F7 | 20.50 | 521 | 9.00 | 229 | 7.00 | 178 | 10.50 | 267 |
| H327AWK | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 | HU363A | F6 | 20.50 | 521 | 9.00 | 229 | 7.00 | 178 | 10.50 | 267 |
| H327NAWK | E4 | 69.13 | 1756 | 36.62 | 930 | 17.75 | 451 | 36.62 | 930 | HU363AWK | F6 | 20.50 | 521 | 9.00 | 229 | 7.00 | 178 | 10.50 | 267 |
| H328AWK H328NAWK | E4 E4 | 69.13 69.13 | 1756 1756 | 36.62 | 930 | 17.75 17.75 | 451 451 | 36.62 | 930 930 | HU363DS HU363DSWA | F6 F7 | 20.82 | 529 529 | 9.36 | 238 | 6.97 | 177 177 | 11.25 11.25 | 286 286 |
| H328NAWK H361AWA | E4 F7 | 16.5 | 419 | 36.62 10.50 | 930 267 | 7.0 | 178 | 36.62 10.50 | 930 267 | HU363DSWA | F7 | 20.82 20.82 | 529 529 | 9.36 9.36 | 238 238 | 6.97 6.97 | 177 | 11.25 | 286 |
| H361AWC | F7 | 16.5 | 419 | 10.50 | 267 | 7.0 | 178 | 10.50 | 267 | HU363DF | F1 | 24.80 | 630 | 13.70 | 348 | 12.00 | 305 | 13.70 | 348 |
| H361AWK | F7 | 14.60 | 371 | 7.55 | 192 | 4.96 | 125 | 7.55 | 192 | HU363DX | F1 | 25.25 | 641 | 11.40 | 290 | 8.60 | 218 | 11.40 | 290 |
| H361A | F7 | 14.60 | 371 | 7.55 | 192 | 4.96 | 125 | 7.55 | 192 | HU363SS | F6 | 20.82 | 529 | 9.36 | 238 | 6.97 | 177 | 11.25 | 286 |
| H361DS | F6 | 14.93 | 379 | 8.67 | 220 | 5.11 | 130 | 8.67 | 220 | HU364A | F6 | 29.00 | 737 | 17.25 | 438 | 8.75 | 216 | 18.63 | 473 |
| H361DSWA | F7 | 16.87 | 428 | 8.92 | 227 | 5.11 | 130 | 10.81 | 275 | HU364AWK | F6 | 29.00 | 737 | 17.25 | 438 | 8.75 | 216 | 18.63 | 473 |
| H361DSWC | F7 | 16.87 | 428 | 8.92 | 227 | 5.11 | 130 | 10.79 | 274 | HU364DF | E1 | 31.30 | 795 | 26.30 | 668 | 11.80 | 300 | 26.30 | 668 |
| H361DF H361DX | F1 F1 | 16.50 19.40 | 419 493 | 11.00 11.40 | 279 290 | 8.80 8.60 | 224 218 | 11.00 11.40 | 279 290 | HU364DS HU364SS | F6 F6 | 29.00 29.00 | 737 737 | 17.75 17.75 | 451 451 | 8.88 8.88 | 226 226 | 19.25 19.25 | 489 489 |
| H361SS | F6 | 14.93 | 379 | 7.22 | 183 | 5.11 | 130 | 8.67 | 230 | HU365AWK | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 |
| H361–2A | F6 | 16.50 | 419 | 9.00 | 229 | 7.00 | 178 | 10.50 | 267 | HU365DS | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 |
| H361–2AWK | F6 | 16.50 | 419 | 9.00 | 229 | 7.00 | 178 | 10.50 | 267 | HU365SS | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 |
| H362AWA | F7 | 16.50 | 419 | 9.00 | 229 | 7.00 | 178 | 10.50 | 267 | HU366AWK | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 |
| H362AWC | F7 | 16.50 | 419 | 9.00 | 229 | 7.00 | 178 | 10.50 | 267 | HU366DS | E5 | 46.25 | 1175 | 26.25 | 667 | 10.13 | 259 | 26.25 | 667 |
| H362AWH H362A | F6 F6 | 16.50 16.50 | 419 419 | 9.00 9.00 | 229 229 | 7.00 | 178 178 | 10.50 10.50 | 267 267 | HU366SS HU367AWK | E5 E4 | 46.25 69.13 | 1175 1756 | 26.25 | 667 930 | 10.13 17.75 | 259 451 | 26.25 36.62 | 667 930 |
| H362AWK | F6 F6 | 16.50 | 419 | 9.00 | 229 | 7.00 | 178 | 10.50 | 267 | HU367AWK HU368AWK | E4 E4 | 69.13 | 1756 | 36.62 36.62 | 930 930 | 17.75 | 451 | 36.62 | 930 |
| H362DS | F6 | 16.87 | 419 | 8.92 | 229 | 6.97 | 178 | 10.50 | 207 | HU461AWK | E4 F6 | 20.50 | 521 | 14.75 | 375 | 6.80 | 173 | 16.13 | 930 411 |
| H362DSWA | F7 | 16.87 | 428 | 8.92 | 227 | 5.11 | 130 | 10.81 | 275 | HU461DS | F6 | 20.82 | 529 | 15.08 | 383 | 6.97 | 177 | 16.85 | 428 |
| H362DSWC | F7 | 16.87 | 428 | 8.92 | 227 | 5.11 | 130 | 10.79 | 274 | HU462AWK | F6 | 21.25 | 540 | 16.13 | 410 | 6.80 | 173 | 16.13 | 410 |
| H362DF | F1 | 16.50 | 419 | 11.00 | 279 | 8.80 | 224 | 11.00 | 279 | HU462DS | F6 | 20.82 | 529 | 15.08 | 383 | 6.97 | 177 | 16.85 | 428 |
| H362DX | F1 | 19.40 | 493 | 11.40 | 290 | 8.60 | 218 | 11.40 | 290 | HU463AWK | F6 | 20.50 | 521 | 14.75 | 375 | 6.80 | 173 | 16.13 | 410 |
| H362SS H363AWA | F6 F7 | 16.87 | 428 | 8.92 | 227 | 6.97 | 177 178 | 10.81 | 275 267 | HU463DS HU464AWK | F6 F6 | 20.82 | 529 | 15.08 | 383 591 | 6.97 | 177 222 | 16.85 24.88 | 428 632 |
| HJUJAWA | Г <i>1</i> | 20.50 | 521 | 9.00 | 229 | 7.00 | 1/0 | 10.50 | 207 | | г0 | 29.00 | 737 | 23.25 | 291 | 8.75 | 222 | 24.00 | 032 |

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Dimensions for Heavy Duty Safety



Switches Class 3110 / Refer to Catalog 3100CT1602

Table 3.43 Approximate Dimensions (cont'd.)

| Cat. No. | Series | ł | 1 | ٧ | ٧ | 1 |) | W | 'H | Cat. No. | Ser- | ł | 1 | v | / | |) | W | //H |
|----------|--------|-------|------|-------|-----|-------|-----|-------|-----|----------|------|-------|------|-------|-----|-------|-----|-------|-----|
| Gal. NO. | Series | in. | mm | in. | mm | in. | mm | in. | mm | Gat. NO. | ies | in. | mm | in. | mm | in. | mm | in. | mm |
| H363AWC | F7 | 20.50 | 521 | 9.00 | 229 | 7.00 | 178 | 10.50 | 267 | HU464DS | F6 | 29.00 | 737 | 23.75 | 603 | 8.88 | 226 | 25.25 | 641 |
| H363A | F6 | 20.50 | 521 | 9.00 | 229 | 7.00 | 178 | 10.50 | 267 | HU465AWK | E5 | 46.25 | 1175 | 32.50 | 826 | 10.13 | 259 | 32.50 | 826 |
| H363AWK | F6 | 20.50 | 521 | 9.00 | 229 | 7.00 | 178 | 10.50 | 267 | HU661AWK | F6 | 20.50 | 521 | 14.75 | 375 | 6.80 | 173 | 16.13 | 410 |
| H363DS | F6 | 20.82 | 529 | 9.36 | 238 | 6.97 | 177 | 11.25 | 286 | HU661DS | F6 | 20.82 | 529 | 15.08 | 383 | 6.97 | 177 | 16.85 | 428 |
| H363DSWA | F7 | 20.82 | 529 | 9.36 | 238 | 6.97 | 177 | 11.25 | 286 | HU662AWK | F6 | 20.50 | 521 | 14.75 | 375 | 6.80 | 173 | 16.13 | 410 |
| H363DSWC | F7 | 20.82 | 529 | 9.36 | 238 | 6.97 | 177 | 11.25 | 286 | HU662DS | F6 | 20.82 | 529 | 15.08 | 383 | 6.97 | 177 | 16.85 | 428 |
| H363DF | F1 | 24.80 | 630 | 13.70 | 348 | 12.00 | 305 | 13.70 | 348 | HU663AWK | F6 | 20.50 | 521 | 14.75 | 375 | 6.80 | 173 | 16.13 | 410 |
| H363DX | F1 | 25.25 | 641 | 11.40 | 290 | 8.60 | 218 | 11.40 | 290 | HU663DS | 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 | HU664AWK | F6 | 29.00 | 737 | 23.25 | 591 | 8.75 | 222 | 24.88 | 632 |
| | | | | | | | | | | HU664DS | F6 | 29.00 | 737 | 23.75 | 603 | 8.88 | 226 | 25.25 | 641 |

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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 protected by (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
- All 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

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SAFETY SWITCHES



Double-Throw Safety Switches

Table 3.44: 240 V Double Throw Safety Switches

| | | Current | NEMA Type 1 | NEMA Type 3R | NEMA Type 4,4X,5 304 Stainless | NEMA Type 12 Gasketed | | | power Ra Vac | atings [1][2] | |
|--|--------------------------------|------------------------|---|----------------------------------|--------------------------------------|--------------------------|----------------|-----------------------|-----------------|---------------|------------|
| System | Amperes | Series | | | Steel | Gasketed | | Std. | | Max. | 250 Vdc[3] |
| | | | Cat. No. | Cat. No. | Cat. No. | Cat. No. | 1Ø | 3Ø | 1Ø | 3Ø | |
| Fusible—2P, 240 Vac—250 \ | Vdc | | | | | | | | | | |
| o o Line | 100 | F | DT223 | DT223RB | _ | _ | 7.5 | 15 <i>[4]</i> | 15 | 30 [4] | 20 |
| Fusible—3P, 240 Vac—250 V | | r | r | | T | . | 1 | | | - | T |
| γγγ Line | 30 | F | DT321 | DT321RB | — | — | 1.5 [5] | 3 [4] | 3 [5] | 7.5 [4] | 5 |
| 1-1-1 | 60 | F | DT322 | DT322RB | — | _ | 3 [5] | 7.5 [4] | 10 [5] | 15 [4] | 10 |
| , co c Line , co c Line , co c Load | 100 | F | DT323 | DT323RB | _ | _ | 7.5 [5] | 15 [4] | 15 [5] | 30 [4] | 20 |
| Non-Fusible—2P, 240 Vac— | 250 Vdc | | | | | | | | | | |
| φ φ Line | 60 | F | DTU222 | | _ | — | _ | — | 10 | _ | 10 [6] |
| | 100 | F | DTU223 | DTU223RB | _ | _ | _ | _ | 15 | _ | 20 [6] |
| Q _Q | 30 | T4 | 92251 [7] | _ | _ | _ | _ | _ | _ | _ | _ |
| լ լ լ | 200 | E | 82254 | DTU224NRB [7] [8] | _ | H82254 | 15 | _ | _ | _ | _ |
| ≪-× | | | | | | 1102234 | | | _ | | |
| 66 | 400 | A | DTU225 | DTU225R | - | — | — | - | — | — | 50 |
| Non-Fusible—3P, 240 Vac— | 250 Vdc | | | | • | | | | | | • |
| o o o Line | 30 | F | DTU321 | | _ | — | _ | 3 [4] | 5 [5] | 10 [4] | 5 [6] |
| 7-7-7 | 60 | F | DTU322 | _ | _ | _ | _ | _ | 10 [5] | 15 [4] | 10 [6] |
| ↓< | 100 | F | DTU323 | DTU323RB | _ | _ | _ | _ | 15 [5] | 30 [4] | 20 [6] |
| Load | | | | | | | | | | | |
| | 30 | T4 | 92351 [7] | | | _ | _ | _ | _ | _ | _ |
| γ γ γ | | | 92351 [7] 82354 [7] | | | | | — 15 | - | | |
| | 200 | E | 82354 [7] | | | H82354 [7] | | — 15 15 | — | | |
| | 200 200 | E | 82354 [7] DTU324N [7] [8] | DTU324NRB [7] [8] | | | - | 15 | - | | _ |
| <u> </u> | 200 200 400 | E E A | 82354 [7] DTU324N [7] [8] DTU325 | DTU324NRB [7] [8] DTU325R | - | _ | _ | 15 125 | - | _ | |
| | 200 200 | E | 82354 [7] DTU324N [7] [8] | DTU324NRB [7] [8] | | | | 15 | - | | _ |
| | 200 200 400 600 | E E A A | 82354 [7] DTU324N [7] [8] DTU325 DTU326 | DTU324NRB [7] [8] DTU325R | | | | 15 125 | | | |
| Image: Weight of the second | 200 200 400 600 30 | E E A A T4 | 82354 [7] DTU324N [7] [8] DTU325 DTU326 92451 [7] | | | | | 15 125 125 — | | | |
| Non-Fusible-4P, 240 Vac | 200 200 400 600 | E E A A | 82354 [7] DTU324N [7] [8] DTU325 DTU326 | | | | | 15 125 125 | | 1 1 1 | |

ω

SAFETY SWITCHES

600 V Double Throw: page 3-27 Accessories: page 3-28 Application Data: Application Data, page 3-30 Dimensions, 30-100 A (Series F): page 3-32 Dimensions, 30, 200–600 A (Series E, T4, A): page 3-32

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

Std.-Using fast acting one time fuses. Max.-Using dual element time delay fuses.

For switching dc, use two switching poles.

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

Use outer switching poles.

[2] [3] [4] [5] [6] [7] [8] [9] [10] Maximum rating.

240 Vac only. Not Vdc rated. Neutral included with device.

240 Vac, 250 Vdc.

Hp rating applies only to H82454

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Class 3110 / Refer to Catalog 3100CT1602

Double Throw Safety Switches

Table 3.45: 600 V Double Throw Safety Switches

| | | | NEMA | NEMA | NEMA Type 4,4X,5 | | | | | ower Rati | _ | | | |
|---|-----------|----------|-------------|---------------------|----------------------|-------------------------------|------------|--------------------|-----------------|-----------------|--------------------|-------------|-----|------------|
| System | Amperes | Current | Type 1 | Type 3R | 304 Stainless | NEMA Type 12 Gasketed | | Vac | | Vac | | Vac | Vdo | :[13] |
| | | Series | | | Steel | | Std | Max | Std | Max | Std | Max | 250 | 600 |
| usible 3P, 600 Vac—60 | 0.V/do | | Cat. No. | Cat. No. | Cat. No. | Cat. No. | 3Ø | 3Ø | 3Ø [14] | 3Ø [14] | 3Ø | 3Ø | | |
| -usible 3F, 600 Vac—60 γγγ Line | | _ | | l | | | <u> </u> | r – – | 5 | 15 | | | | 15 |
| 1-1-1 | 30 | F | DT361 | DT361RB | _ | _ | _ | - | [15] | [15] | 7.5 | 20 | 5 | [16] |
| <i>???</i> | 60 | F | DT362 | DT362RB | _ | — | — | — | 15 [17] | 30 [17] | 15 | 50 | — | 30 [18] |
| ο ο ο Line | | | | | | | | | | | | | | |
| 2221 222 ••••• Load | 100 | F | DT363 | DT363RB | _ | _ | - | - | 25 [19] | 60 [19] | 30 | 75 | - | 50 [20] |
| Non-Fusible 3P, 600 Va | c—600 Vdc | <u> </u> | | | | | 1Ø [13] | 3Ø [14] [21] | 1Ø [13] [21] | 3Ø [14] [21] | 1Ø [13] [21] | 3Ø [21] | | |
| o o o Line | 30 | F | DTU361 | DTU361RB | | | [21] 5 | [21] 10 | 7.5 | 20 | [21] 10 | 30 | 5 | 15 |
| 0 0 0 Line - - - - - - - - - - - - - - - - - - - | | | | | | | | | | <u>20</u> 50 | | <u> </u> | | |
| + + + | 60 | F | DTU362 | DTU362RB | DTU362DS | DTU362AWK[22] | 10 | 20[23] | 25 | [24] | 30 | [25] | 10 | 30 |
| o o o Line /-/-/ •oeoeo Load | 100 | F | DTU363 | DTU363RB | DTU363DS | DTU363AWK [22] | 20 | 40[26] | 40 | 75[26] | 40 | 100 [26] | 20 | 50 |
| <u> </u> | 200 | Е | 82344 [27] | 82344RB [27] | 82344DS [27] [28] | H82344 [27] | _ | _ | _ | 15 [29] | - | _ | _ | _ |
| o€-o€-o< | 400 | Α | DTU365 | DTU365R | DTU365DS | DTU365AWK | _ | 125 | _ | 250 | _ | 350 | 50 | _ |
| 666 | 600 | Α | DTU366[30] | DTU366R[30] | _ | DTU366AWK[30] | _ | 125 | _ | 250 | | 350 | 50 | _ |
| lon-Fusible 4P, 600 Va | c—600 Vdc | | | | | | 2Ø | 3Ø | 2Ø | 3Ø | 2Ø | 3Ø | | |
| 0 0 0 0 Line | 60 | F | DTU462[31] | | DTU462DS [31] | DTU462AWK[22] [31] | 20 | 20 | 40 | 50 | 50 | 60 | 10 | 30 |
| φοφοφο Load | 100 | F | DTU463 [31] | Use NEMA Type 12 | DTU463DS [31] | DTU463AWK [22] [31] | 30 | 40 | 50 | 75 | 50 | 100 | 20 | 50 |
| 9 9 9 9 | 200 | E | 82444[30] | 82444R [30] | 82444DS [30] | H82444 [22] [31] [32] [30] | _ | _ | _ | _ | _ | _ | — | _ |
| ≪-≪-≪-≪ | 400 | А | DTU465[30] | DTU465R[30] | _ | _ | - | 125 | _ | 250 | | 350 | 50 | - |
| 6666 | 600 | А | DTU466 [30] | DTU466R /30] | _ | _ | _ | 125 | _ | 250 | _ | 350 | 50 | _ |
| on-Fusible 6P, 600 Va | c—600 Vdc | | 1 | [00] | | | 1Ø | 3Ø | 1Ø | 3Ø | 1Ø | 3Ø | | |
| 0 0 0 0 0 0 Line | 60 | F | _ | _ | _ | DTU662AWK [22] [31] | _ | 20 | _ | 50 | | 60 | 10 | 30 |
| Image: constraint of the second se | 100 | F | _ | _ | _ | DTU663AWK [22] [31] | _ | 40 | _ | 75 | _ | 100 | 20 | 50 |

240 V Double Throw: page 3-26 Accessories: page 3-28 Application Data: page 3-30 Dimensions, 30-100 A (Series F): page 3-32 Dimensions, 30, 200–600 A (Series E, T4, A): page 3-32

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

[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
- Maximum HP [21]
- Complete rating on switch is NEMA Type 3R, 5 or 12. For 3R applications, remove drain screw from bottom endwall. [22]
- [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.

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Accessories and Lug Data



Class 3110 / Refer to Catalog 3100CT1602

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 <i>[34][35]</i> |
| 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 rejects | When properly installed, this kit rejects all but 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 pe | r 3P switch) | | | | | | | | | |
| 30 A | 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 3-20. 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.

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 [33] Electrical Interlock Kit, page for electrical interlock ratings

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 [34] 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. 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 [39] 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.

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6.5



Accessories and Lug Data

Class 3110 / Refer to Catalog 3100CT1602

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

Watertight Hubs

Table 3.50: Watertight 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 | - | _ | - | — |

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3

Non-Fusible

Switch

Double Throw

Fusible Single

Throw Switch

or Circuit

Breaker

Line

Fusible Single Throw Switch or

Circuit

Breaker

Double

Throw Switch

Fusible

Circuit Breaker

Single Throw Switch or

Non-Fusible



Application Data for Double Throw Safety Switches

Line

Line

Load **Diagram 1**

Situations Requiring Fuses 30–100 A Type DT (Series F): Select DT switches from 240 Volt Double-Throw Safety Switches, page 3-26 and 600 Volt Double Throw Safety Switches, page 3-27 which have provisions for accepting fuses.

Load

30 A, 200–600 A Type 82,000 (Series E, T4, A), all DTU devices: Use the non-fusible double throw switches from 240_Volt Double-Throw Safety Switches, page 3-26 and 600 Volt Double Throw Safety Switches, page 3-27 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

Line

Diagram 2

| Switch Type | Amperes | Voltage Rating | UL Listed Fuse Class | Short Circuit Current Rating <i>[42]</i> (A) |
|---|-------------|-------------------|-------------------------|--|
| Туре 92000 | 30 A | 240 V | H, K | 10,000 <i>[</i> 43] |
| Type DT (Series F) | 30–100 A | 240 V or 600 V | H, K R, J | 10,000 200,000 |
| Type DTU [44] (Series F) | 30–100 A | 240 V or 600 V | H or K | 10,000 [43] |
| (Series I) | | 000 1 | R, J or T | 200,000 |
| DTU224NRB and DTU324NRB (Series E) | 200 A | 240 V | Н, К | 10,000 [43] |
| DTU324N | 200 A | 040.14 | H, K | 10,000 [43] |
| (Series E) | 200 A | 240 V | R, J | 100,000 |
| Type 82,000 | All | 240 V or 600 V | H, J | 10,000[43] |
| Type DTU | 400, 600, 4 | 240 V or | H, K | 10,000 |
| (Šeries A) | 400–600 A | 600 V | 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.

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. The DTU361 and DTU361RB are also suitable for use on a circuit capable of delivering not more than [43] [44]

(A) 18 kA, 600 Vac maximum when protected by Type FH circuit breaker rated 30 A maximum or (B) 14 kA, 600 Vac maximum when protected by 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]

| | Wires | NEW | | | |
|---------------------------------------|-------|---|---|--|---|
| Switch Type per Phase | | Wire Range Wire Bending Space Per NEC Table 373-6 AWG/kcmil | Standard Lug Wire Range AWG/kcmil | Optional Compression Lug Field-Installed | Optional Copper Only Lug |
| 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 <i>[</i> 46] | See Table 3.37 Copper Lug Kits, page 3-20 and Double Lug Kits, page 3-21 for |
| 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] | appropriate kit. Order two kits per switch. |

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 | 400 1 2 | | 1/0 - 750 Al/Cu or 1/0 - 300 Al/Cu | _ | | |
| 600 | 2 | 250–500 Al/Cu | 250–500 Al/Cu | _ | | |

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

Order from Thomas and Betts [46]

[47] Hubbell Versa-Crimp™ catalog numbers. 3



Series F Devices 30–100 A

Table 3.54: 30–100 A Type DT, DTU (Series F)—Approximate Dimensions

| Cat. No. | Series | Н | | | N | W/H | | D | |
|-----------|--------|-------|-----|-------|-----|-------|-----|------|----|
| | | in. | mm | in. | mm | in. | mm | in. | mn |
| DT223 | F5 | 38.00 | 965 | 9.88 | 251 | 11.13 | 283 | 6.75 | 17 |
| DT223RB | F5 | 38.00 | 965 | 6.87 | 174 | 8.12 | 206 | 6.60 | 16 |
| DT321 | F5 | 38.00 | 965 | 10.25 | 260 | 11.50 | 292 | 6.75 | 17 |
| DT321RB | F5 | 38.00 | 965 | 10.25 | 260 | 11.80 | 300 | 6.60 | 16 |
| DT322 | F5 | 38.00 | 965 | 10.25 | 260 | 11.50 | 292 | 6.75 | 17 |
| DT322RB | F5 | 38.00 | 965 | 10.25 | 260 | 11.80 | 300 | 6.60 | 16 |
| DT323 | F5 | 38.00 | 965 | 9.88 | 251 | 11.13 | 283 | 6.75 | 17 |
| DT323RB | F5 | 38.00 | 965 | 6.87 | 174 | 8.12 | 206 | 6.60 | 16 |
| DT361 | F5 | 38.00 | 965 | 10.25 | 260 | 11.50 | 292 | 6.75 | 17 |
| DT361RB | F5 | 38.00 | 965 | 10.25 | 260 | 11.80 | 300 | 6.60 | 16 |
| DT362 | F5 | 38.00 | 965 | 10.25 | 260 | 11.50 | 292 | 6.75 | 17 |
| DT362RB | F5 | 38.00 | 965 | 10.25 | 260 | 11.80 | 300 | 6.60 | 16 |
| DT363 | F5 | 38.00 | 965 | 9.88 | 251 | 11.13 | 283 | 6.75 | 17 |
| DT363RB | F5 | 38.00 | 965 | 6.87 | 174 | 8.12 | 206 | 6.60 | 16 |
| DTU222 | F5 | 29.94 | 760 | 10.25 | 260 | 11.96 | 304 | 6.93 | 17 |
| DTU223 | F5 | 29.94 | 760 | 10.25 | 260 | 11.96 | 304 | 6.93 | 17 |
| DTU223RB | F5 | 30.50 | 775 | 10.25 | 260 | 11.96 | 304 | 6.93 | 17 |
| DTU321 | F5 | 29.94 | 760 | 10.25 | 260 | 11.96 | 304 | 6.93 | 17 |
| DTU322 | F5 | 29.94 | 760 | 10.25 | 260 | 11.96 | 304 | 6.93 | 17 |
| DTU323 | F5 | 29.94 | 760 | 10.25 | 260 | 11.96 | 304 | 6.93 | 17 |
| DTU323RB | F5 | 30.50 | 775 | 10.25 | 260 | 11.96 | 304 | 6.93 | 17 |
| DTU361 | F5 | 29.94 | 760 | 10.25 | 260 | 11.96 | 304 | 6.93 | 17 |
| DTU361RB | F5 | 30.50 | 775 | 10.25 | 260 | 11.96 | 304 | 6.93 | 17 |
| DTU362 | F5 | 29.94 | 760 | 10.25 | 260 | 11.96 | 304 | 6.93 | 17 |
| DTU362AWK | F6 | 29.94 | 760 | 10.25 | 260 | 11.96 | 304 | 6.93 | 17 |
| DTU362DS | F6 | 30.26 | 769 | 10.25 | 260 | 11.50 | 292 | 7.12 | 18 |
| DTU362RB | F5 | 30.50 | 775 | 10.25 | 260 | 11.96 | 304 | 6.93 | 17 |
| DTU363 | F5 | 29.94 | 760 | 10.25 | 260 | 11.96 | 304 | 6.93 | 17 |
| DTU363AWK | F6 | 29.94 | 760 | 10.25 | 260 | 11.96 | 304 | 6.93 | 17 |
| DTU363DS | F6 | 30.26 | 769 | 10.25 | 260 | 11.50 | 292 | 7.12 | 18 |
| DTU363RB | F5 | 30.50 | 775 | 10.25 | 260 | 11.96 | 304 | 6.93 | 17 |
| DTU462 | F5 | 29.94 | 760 | 10.25 | 260 | 11.96 | 304 | 6.93 | 17 |
| DTU462AWK | F6 | 30.26 | 769 | 15.50 | 394 | 16.75 | 425 | 7.12 | 18 |
| DTU462DS | F6 | 30.26 | 769 | 15.50 | 394 | 16.75 | 425 | 7.12 | 18 |
| DTU463 | F5 | 29.94 | 760 | 10.25 | 260 | 11.96 | 304 | 6.93 | 17 |
| DTU463AWK | F6 | 30.26 | 769 | 15.50 | 394 | 16.75 | 425 | 7.12 | 18 |
| DTU463DS | F6 | 30.26 | 769 | 15.50 | 394 | 16.75 | 425 | 7.12 | 18 |
| DTU662AWK | F6 | 30.26 | 769 | 15.50 | 394 | 16.75 | 425 | 7.12 | 18 |
| DTU663AWK | F6 | 30.26 | 769 | 15.50 | 394 | 16.75 | 425 | 7.12 | 18 |

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240 V Double Throw: page 3-26 600 V Double Throw: page 3-27 Accessories: page 3-28 Application Data: page 3-30

Dimensions, 30, 200-600 A (Series E, T4, A): page 3-32

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. | Ourier | н | | W | | W | //H | D | |
|-----------|--------|-------|------|-------|-----|-------|-----|-------|-----|
| | Series | 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 | 220 |
| 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 | 18 |
| 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 |



Dimensions for Double Throw Safety

Class 3110 / Refer to Catalog 3100CT1602

Switches

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Table 3.55 200-600 A Types 82,000 and E-Series DTU and 30 A devices—Approximate Dimensions (cont'd.)

| Cat. No. | Series | Н | | W | | W/H | | D | | |
|--|--------|-------|------|--------------------------------|-----|--|-----|------|-----|--|
| | | in. | mm | in. | mm | in. | mm | in. | mm | |
| DTU465R | A1 | 53.81 | 1367 | 23.13 | 588 | 23.88 | 607 | 7.25 | 184 | |
| 240 V Double Throw: page 3-26 600 V Double Throw: page 3-27 | | | | s: page 3-28 ata: page 3-30 | | Dimensions, 30–100 A (Series F): page 3-32 | | | | |