



Industrial
Solutions

BROCHURE

Spec-Setter™

Safety switches



 **by ABB**

**GE[®] Spec-Setter safety switches
from ABB are available for all your
disconnect needs, no matter what
the application.**

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Spec-Setter Safety switches

ABB offers a variety of GE safety switches to fit many applications

ABB offers a wide variety of GE general duty switches for residential and light commercial purposes, while the extensive line of heavy duty switches is best suited for commercial and industrial applications. For the toughest industrial environments — like cement foundries, steel mills and processing plants — mill duty and stainless steel switches are available. We also offer a variety of double throw switches for emergency generators.

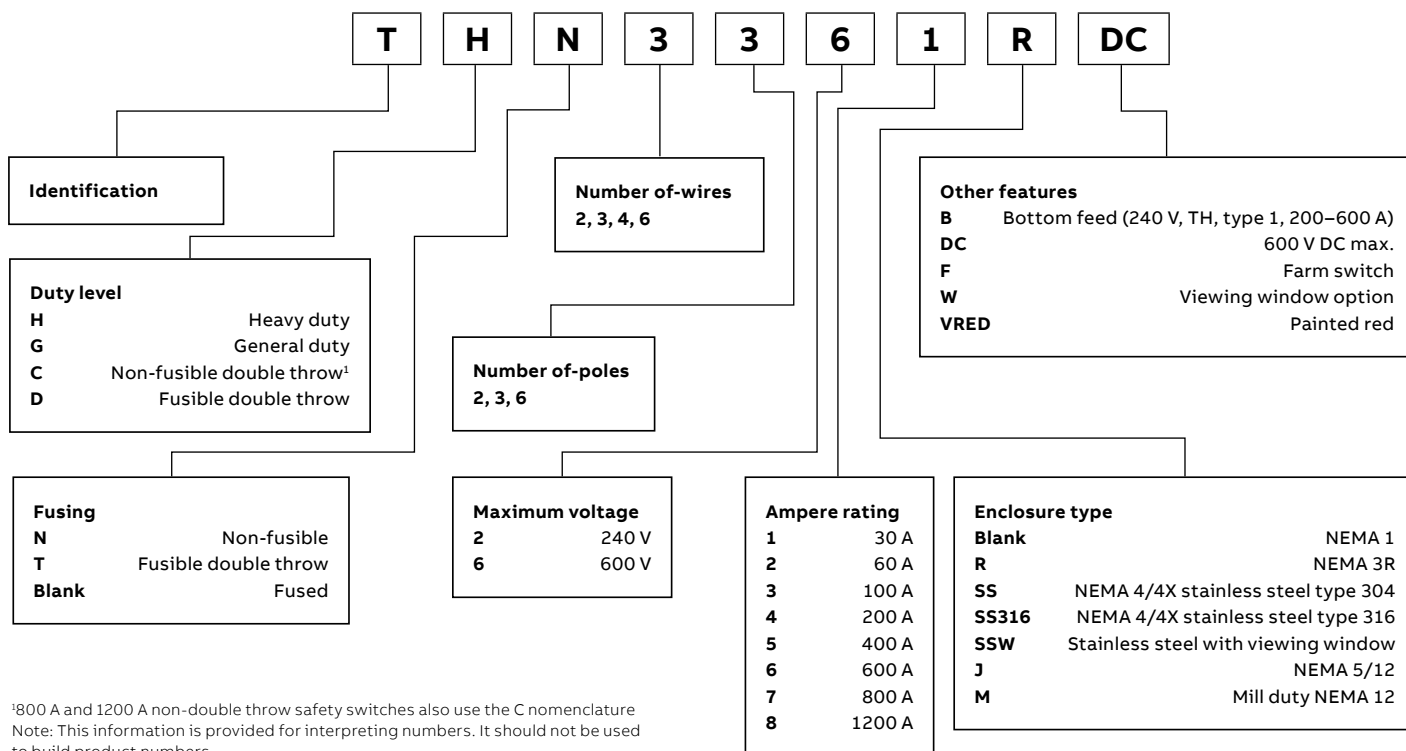
No matter what the application, we've got you covered with a rugged, reliable and easy-to-install Spec-Setter safety switch.

When it comes to getting the job done right, you can count on GE safety switches from ABB



Spec-Setter safety switches

Product number structure



Applications for enclosures in non-hazardous locations

Provides a degree of protection against the following environmental conditions	Type of enclosure					
	12	3R ²	4	4X	5	12
Incidental contact with enclosed equipment	X	X	X	X	X	X
Falling dirt	X	–	X	X	X	X
Falling liquids and light splashing	–	–	X	X	X	X
Windblown/circulating dust, lint, fibers and flyings ³	–	–	X	X	–	X
Settling airborne dust, lint, fibers and flyings ³	–	–	X	X	X	X
Rain, snow and sleet ⁴	–	X	X	X	–	–
Hosedown and splashing water	–	–	X	X	–	–
Oil and coolant	–	–	–	–	–	X
Corrosive agents	–	–	–	X	–	–

²These enclosures may be ventilated.

³These fibers and flyings are non-hazardous materials and are not considered Class III type ignitable fibers or combustible flyings. For Class III type ignitable fibers or combustible flyings, see the National Electrical Code, Article 500.

⁴External operating mechanisms are not required to be operable when the enclosure is ice covered.

General duty safety switches

—
01 60 A fusible 3-pole,
240 V NEMA 1
TG4322

General duty safety switches are available in 30–600 amps, 240 V AC, 250 V DC maximum in both fusible and non-fusible units, and in NEMA type 1 (indoor) and type 3R (outdoor) enclosures. The UL listed short-circuit rating is 10,000 rms symmetrical amps as standard. When Class R fuses and fuse kits are installed, 30–200 amp switches have a UL listed short circuit rating of 100,000 rms symmetrical amps. The general duty safety switches are UL listed as service entrance equipment when installed in accordance with the National Electrical Code.

- All our general duty safety switches carry the following certifications:
- UL listed and cUL listed (UL98 enclosed switches/CSA-C22.2 No. 4-04)
 - Federal specification WS-865C
 - NEMA enclosed safety switch standard KS1-2013
 - Seismic certified

Features

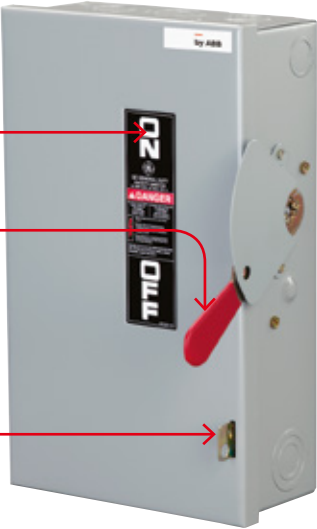
Highly visible ON/OFF label.

Highly visible, easy-to-grip red handle accepts one padlock in the OFF position.

Lockable cover catch.

Safety

Ease of installation and maintenance



01

Self-leveling, three-point mounting system.

Visible confirmation of plated blade contact positions.

Spring-reinforced fuse clips assure reliable contact for cool operation. Suitable for Class H, K or R fuses, where applicable.

Integral interlock.

Direct-drive, quick-make, quick-break mechanism snaps contacts open and closed, providing positive ON/OFF indication.

Unobstructed gutter.

General duty safety switch short circuit ratings

Maximum system voltage	Ampere rating	UL listed fusing		NEMA enclosure type
		Class	Withstand rating (rms sym. amps)	
Fusible				
240 V AC	30–600	K	10,000	1, 3R
250 V DC		H	10,000	
		R ¹	100,000	
Non-fusible: Fuse withstand ratings apply to non-fused switches when protected by an upstream fuse as listed				
240 V AC	30–600	Any other protective device	10,000	1, 3R
250 V DC		K upstream	10,000	
		H upstream	10,000	
		R upstream	100,000	

¹Class R fuse is not available for 400 A or 600 A general duty switches.

Lug-wire sizes line and load terminals

Ampere rating	Wire range AWG/ kcmil copper	Wire range AWG/ kcmil aluminum
30 (250 V)	14–8	12–8
60	12–2	12–2
100	10–1/0	10–1/0
200	2–250	2–250
400	(1) 2–800 or (2) 1/0–250	(1) 2–800 or (2) 1/0–250
600	(2) 4–500	(2) 4–500

General duty safety switches

—
01 60 A fusible 3-pole
240 V NEMA 1
TG4322VRED

—
02 60 A fusible
3-pole 240 V NEMA 1
TG4322

—
03 100 A non-fusible
3-pole 240 V NEMA 3R
TGN3323R

—
04 30 A non-fusible
3-pole 240 V NEMA 3R
TGN3321R



—
01



—
02



—
03



—
04

	Product number		Horsepower rating		DC HP	
			Single-phase 240 V AC		250 V DC	
	Amperage rating	NEMA type 1 indoor	NEMA type 3R outdoor	Standard fuse	Time delay	Standard fuse
Fusible 2-pole 3-wire 240 V 50/60 Hz						
	30	TG3221	TG3221R	1.5	3	5
	60	TG3222	TG3222R	3	10	10
	100	TG3223	TG3223R	7.5	15	20
	200	TG3224 ¹	TG3224R	15	15	—
	400	TG3225 ^{1,2}	TG3225R ²	—	—	—
	600	TG3226 ^{1,2}	TG3226R ²	—	—	—
Fusible 3-pole 4-wire 240 V 50/60 Hz						
	30	TG4321	TG4321R	1.5	3	5
	60	TG4322	TG4322R	3	10	10
	100	TG4323	TG4323R	7.5	15	20
	200	TG4324 ¹	TG4324R	15	15	—
	400	TG4325 ^{1,2}	⁴	—	—	—
	600	TG4326 ^{1,2}	⁴	—	—	—

	Product number		Horsepower rating		DC HP	
			Single-phase 240 V AC		250 V DC	
	Amperage rating	NEMA type 1 indoor	NEMA type 3R outdoor	Standard fuse	Time delay	Standard fuse
Fusible 2-pole 3-wire 240 V 50/60 Hz (painted red)						
	30	TG3221VRED	—	1.5	3	5
	60	TG3222VRED	—	3	10	10
Fusible 3-pole 4-wire 240 V 50/60 Hz (painted red)						
	30	TG4321VRED	—	1.5	3	10
	60	TG4322VRED	—	3	10	20

	Product number		Horsepower rating		DC HP	
			Single-phase 240 V AC standard		250 V DC	
	Amperage rating	NEMA type 1 indoor	NEMA type 3R outdoor	Standard	Standard	Standard
Non-fusible 3-pole 3-wire 240 V 50/60 Hz						
	30	TGN3321	TGN3321R	3	7.5	5
	60	TGN3322 ³	TGN3322R ³	10	15	10
	100	TGN3323 ³	TGN3323R ³	15	30	20
	200	TGN3324 ¹	TGN3324R	15	50	—
	400	TGN3325 ^{1,2}	⁴	—	100	—
	600	TGN3326 ^{1,2}	⁴	—	100	—

For type 3R enclosure: 30–200 amp devices have removable closing cap. Order hubs for these devices separately on page 31.

Larger amp devices require field cut openings and customer-supplied hub.

General duty safety switches are not suitable for use as service equipment in Canada. Use heavy duty safety switches.

¹Add B suffix for factory reversed bottom feed. (e.g., TG3224B).

²Single make/single break mechanism

³Not suitable for use as service equipment. Solid neutral not available.

⁴NEMA type 3R fusible or non-fusible versions, 400–600 ampere rating, available in heavy duty, type TH models. See pages 9–13.

Heavy duty safety switches

—
01 200 A fusible
3-pole 600 V NEMA 3R
TH3364R

Type TH heavy duty safety switches are designed for commercial and industrial applications where safety, high performance and continuity of service are essential. Heavy duty switches are available in 30–1200 amps, 600 V AC, 600 V DC maximum, fusible and non-fusible units, and in NEMA type 1 (indoor), type 3R (outdoor), type 4/4X (water- and dust-tight, corrosion-resistant), and type 5/12 (drip- and dust-tight) enclosures. When used with Class R or J fuses, 30–600 amp switches have a UL listed short circuit rating of 200,000 rms symmetrical amps. Switches rated 800–1200 amps use Class L fuses and have a UL listed short circuit

rating of 100,000 rms symmetrical amps. Heavy duty safety switches are UL listed as service entrance equipment when installed in accordance with the National Electrical Code.

All our heavy duty safety switches carry the following certifications:

- UL listed and cUL listed (UL98 enclosed switches/CSA-C22.2 No. 4-04)
- Federal specification WS-865C
- NEMA enclosed safety switch standard KS1-2013
- Seismic certified

Features

Donut handle, ideal for hook stick operation, accepts three padlocks in the OFF position.



Highly visible ON/OFF label.



Coin-proof, defeatable interlock.

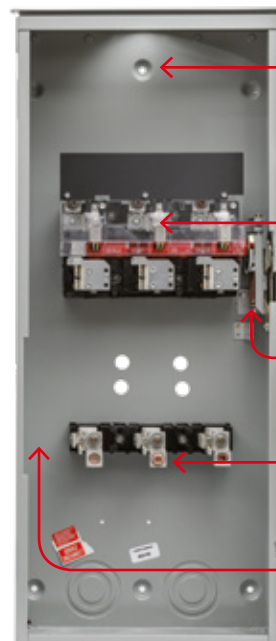


Safety

Ease of installation and maintenance



—
01



Self-leveling, three-point mounting system.



Clear line shield allows visual confirmation of blade positions while helping to protect against accidental contact with live parts.



Direct-drive, quick-make, quick-break mechanism snaps contacts open and closed, providing positive ON/OFF indication.



Spring-reinforced fuse clips assure reliable contact for cool operation. Suitable for Class H, K, J or R fuses, where applicable.



Wide, unobstructed gutter.

Heavy duty safety switches

Short circuit rating and wire size

Heavy duty safety switch short circuit ratings

Maximum system voltage	Ampere rating	Class	UL listed fusing Withstand rating (RMS sym. amps)	NEMA enclosure type
Fusible				
600 V AC	30–1200	H	10,000	1
600 V DC		R	200,000 ⁷	3R
		J	200,000 ⁷	4/4X
		L ⁶	100,000	5
				12
Non-fusible: Fuse withstand ratings apply to non-fused switches when protected by an upstream fuse as listed				
600 V AC	30–1200	Any other protective device ⁸	10,000	1
600 V DC		H upstream	10,000	3R
		R upstream	200,000	4/4X
		J upstream	200,000	5
		L upstream	100,000	12

⁶Class L fuses are only applicable when used with 800 and 1200 A Type TC safety switches.

⁷Unless otherwise noted on the enclosure.

⁸For 800 A and 1200 A only when protected with upstream fuses.

Lug wire sizes line and load terminals

Ampere rating	Wire range AWG/kcmil copper	Wire range AWG/kcmil aluminum
30 (250 V)	14–8	12–8
30 (600 V)	12–2	12–2
60	12–2	12–2
100	10–1/0	10–1/0
200	2–250	2–250
400	(1) 2–600 or (2) 1/0–250	(1) 2–600 or (2) 1/0–250
600	(2) 4–500	(2) 4–500
800	(3) 2–600 or (6) 1/0–250	(3) 2–600 or (6) 1/0–250
1200	(4) 3/0–800	(4) 3/0–800

Heavy duty safety switches

Fusible

01 60 A fusible
3-pole 240 V NEMA 1
TH4322

02 200 A fusible
3-pole 600 V NEMA 3R
TH3364R

03 30 A fusible
3-pole 600 V NEMA 3R
TH3361R



01



02



03

Product number					Horsepower rating				DC HP
Amperage rating	NEMA type 1 indoor	NEMA type 3R outdoor	NEMA type 5, 12	Single-phase 240 V AC		Three-phase 240 V AC		250 V DC	
				Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse	
Fusible 2-pole 3-wire 240 V 50/60 Hz									
30	TH3221	TH3221R	TH3221J ⁴	1.5	3	–	–	5	
60	TH3222	TH3222R	TH3222J ⁴	3	10	–	–	10	
100	TH3223	TH3223R	TH3223J ⁴	7.5	15	–	–	20	
200	TH3224 ^{1,2}	TH3224R ²	TH3224J ⁴	15	–	–	–	40	
400	TH3225 ^{1,2}	TH3225R ²	TH3225J	–	–	50	125	50	
600	TH3226 ^{1,2}	TH3226R ²	TH3226J	–	–	75	200	50	
800	TC72267 ^{3,6,7}	TC72267R ^{3,6,7}	–	–	–	–	–	–	
1200	TC72268 ^{3,6,7}	TC72268R ^{3,6,7}	–	–	–	–	–	–	

Product number					Horsepower rating				DC HP
Amperage rating	NEMA type 1 indoor	NEMA type 3R outdoor	NEMA type 5, 12	Single-phase 240 V AC		Three-phase 240 V AC		250 V DC	
				Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse	
Fusible 3-pole 3-wire 240 V 50/60 Hz									
30	–	–	TH3321J ⁴	1.5	3	3	7.5	5	
60	–	–	TH3322J ⁴	3	10	7.5	15	10	
400	TH3325 ¹	TH3325R	–	–	–	50	125	50	
600	TH3326 ¹	TH3326R	–	–	–	75	200	50	
800	TC72367 ^{3,6,7}	TC72367R ^{3,6,7}	–	–	–	–	–	–	
1200	TC72368 ^{3,6,7}	TC72368R ^{3,6,7}	–	–	–	–	–	–	
Fusible 3-pole 4-wire 240 V 50/60 Hz									
30	TH4321	TH4321R	TH4321J ⁴	1.5	3	3	7.5	5	
60	TH4322	TH4322R	TH4322J ⁴	3	10	7.5	15	10	
100	TH4323	TH4323R	TH4323J ⁴	7.5	15	15	30	20	
200	TH4324 ^{1,2}	TH4324R ²	TH4324J ⁴	15	–	25	60	40	
400	TH4325 ^{1,2}	TH3325R ^{5,8}	TH4325J	–	–	50	125	50	
600	TH4326 ^{1,2}	TH3326R ^{5,9}	TH4326J	–	–	75	200	50	
800	TC72367 ^{3,6} TNI6 ⁷	TC72367R ^{3,6} TNI6 ⁷	–	–	–	–	–	–	
1200	TC72368 ^{3,6} TNI68A ⁷	TC72368R ^{3,6} TNI68A ⁷	–	–	–	–	–	–	

¹Type 1 enclosure: 200–600 amp devices available factory reversed for bottom feed. Add B suffix.

²For switches CSA certified for service entrance, add C suffix.

³For switches suitable for service entrance applications in Canada, order TH3267C, TH3267RC, TH3268C and TH3268RC.

⁴Available with viewing window. Add W suffix.

⁵For switches suitable for service entrance applications in Canada, order TH4325RC and TH4326RC.

⁶Rated 600 V AC only. Accepts Class L fuses only. Type HD electrical performance does not apply.

⁷3- or 4-wire with neutral kit ordered separately. For 800 A use TNI67; for 1200 A use TNI68A ordered separately.

⁸4-wire with neutral kit ordered separately. For 400 A use TNI65 or TNI65A.

⁹4-wire with neutral kit ordered separately. For 600 A use TNI66.

Many heavy duty switches are available with a stainless steel enclosure. See page 15.

Heavy duty safety switches

Fusible

Product number										Horsepower rating				DC HP	
Amperage rating	NEMA type 1 indoor	NEMA type 3E outdoor	Three-phase 240 V AC		Single-phase 480 V AC		Three-phase 480 V AC		Single-phase 600 V AC		Three-phase 600 V AC		125 V DC	250 V DC	
			Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse		
Fusible 2-pole 2-wire 600 V 50/60 Hz															
	800	TC72267 ^{1,2,3}	TC72267R ^{1,2,3}	–	–	–	–	–	–	–	–	–	–	–	–
	1200	TC72268 ^{1,2,3,8}	TC72268R ^{1,2,3,8}	–	–	–	–	–	–	–	–	–	–	–	–
Fusible 3-pole 3-wire 600 V 50/60 Hz															
	30	TH3361	TH3361R	–	7.5	3	7.5	5	15	3	10	7.5	20	–	5
			TH3361RF ⁶	–	–	–	–	–	–	–	–	–	–	–	–
			TH3361RF2 ⁶	–	–	–	–	–	–	–	–	–	–	–	–
	60	TH3362	TH3362R	–	–	5	20	15	30	10	25	15	50	5	10
			TH3362RF ⁶	–	–	–	–	–	–	–	–	–	–	–	–
	100	TH3363	TH3363R	–	–	10	30	25	60	15	40	30	75		20
	200	TH3364 ⁴	TH3364R ⁷	–	–	25	50	50	125	30	50	60	150		40
	400	TH3365 ⁴	TH3365R	50	125	–	–	100	250	–	–	125	350		50
	600	TH3366 ⁴	TH3366R	75	200	–	–	150	400	–	–	200	500		50
	800	TC72367 ^{2,3,5}	TC72367R ^{3,5}	–	–	–	–	–	–	–	–	–	–	–	–
1200	TC72368 ^{2,3,5,8}	TC72368R ^{3,5,8}	–	–	–	–	–	–	–	–	–	–	–	–	
Fusible 3-pole 4-wire 600 V 50/60 Hz (neutral factory installed)															
	30	TH4361	TH4361R	–	7.5	3	7.5	5	15	3	10	7.5	20	–	5
	60	TH4362	TH4362R	–	–	5	20	15	30	10	25	15	50	5	10
	100	TH4363	TH4363R	–	–	10	30	25	60	15	40	30	75	–	20
	200	TH4364	TH4364R	–	–	25	50	50	125	30	50	60	150	–	40
Fusible 3-pole 4-wire 600 V 50/60 Hz (CSA certified for service entrance)															
	200	TH4364C	TH4364RC	–	–	25	50	50	125	30	50	60	150	–	40
	400	TH4365C	TH4365RC	50	125	–	–	100	250	–	–	125	350	–	50
	600	TH4366C	TH4366RC	75	200	–	–	150	400	–	–	200	500	–	50
	800	TH4367C ²	TH4367RC ²	–	–	–	–	–	–	–	–	–	–	–	–
	1200	TH4368C ^{2,8}	TH4368RC ^{2,7,8}	–	–	–	–	–	–	–	–	–	–	–	–

Product number													Horsepower rating				DC HP	
Amperage rating	NEMA type 5, 12 indoor	NEMA type 3R, 5, 12 outdoor	Three-phase 240 V AC		Single-phase 480 V AC		Three-phase 480 V AC		Single-phase 600 V AC		Three-phase 600 V AC		125 V DC	250 V DC				
			Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse					
Fusible 3-pole 3-wire 600 V 50/60 Hz																		
	30	TH3361J ⁷	TH3361JR	–	7.5	3	7.5	5	15	3	10	7.5	20	–	5			
	60	TH3362J ⁷	TH3362JR	–	–	5	20	15	30	10	25	15	50	5	10			
	100	TH3363J ⁷	TH3363JR	–	–	10	30	25	60	15	40	30	75	–	20			
	200	TH3364J ⁷	TH3364JR	–	–	25	50	50	125	30	50	60	150	–	40			
	400	TH3365J	TH3365JR	50	125	–	–	100	250	–	–	125	350	–	50			
	600	TH3366J	TH3366JR	75	200	–	–	150	400	–	–	200	500	–	50			

¹3-wire with neutral kit. For 800 A use TNI67; for 1200 A use TNI68A.

²Rated 600 V AC only. Accepts Class L fuses only. Type HD electrical performance does not apply.

³Order switch and neutral separately.

⁴Type 1 enclosure: 200–600 amp devices available, factory reversed for bottom feed. Add “B” suffix.

⁵4-wire with neutral kit. For 800 A use TNI67; for 1200 A use TNI68A.

⁶Farm switch with oversize type 3R enclosure with vertical hinge. See page 39 for dimensions.

⁷Available with viewing window. Add “W” suffix.

⁸Suitable for use as service entrance equipment except on 1200 A solidly grounded wye systems per NEC 230.95

Heavy duty safety switches

Non-fusible and DC rated

Non-fusible

		Product number								Horsepower rating		DC HP
	Amperage rating	NEMA type 1 indoor	NEMA type 3R outdoor	NEMA type 5, 12	Single-phase	Three-phase	Single-phase	Three-phase	Single-phase	Three-phase	250 V DC	
					240 V AC standard		480 V AC standard		600 V AC standard	Standard		
Non-fusible 3-pole 3-wire 240 V 50/60 Hz												
	30	THN3321	–	–	3	10	–	–	–	–	5	
Non-fusible 3-pole 3-wire 600 V 50/60 Hz												
	30	THN3361	THN3361R	THN3361J ²	3	10	7.5	20	10	30	5	
		–	TH3361RF ³	–	–	–	–	–	–	–	–	
		–	TH3361RF2 ³	–	–	–	–	–	–	–	–	
	60	THN3362	THN3362R	THN3362J ²	10	20	20	50	25	60	103	
		–	THN3362RF ³	–	–	–	–	–	–	–	–	
	100	THN3363	THN3363R	THN3363J ²	20	40	30	75	40	100	20	
	200	THN3364 ¹	THN3364R	THN3364J ²	30	60	50	125	50	150	40	
	400	THN3365 ¹	THN3365R	THN3365J	–	125	–	250	–	350	50	
	600	THN3366 ¹	THN3366R	THN3366J	–	200	–	400	–	500	50	
	800	TC36367	–	–	–	–	–	–	–	–	–	
1200	TC36368 ⁴	–	–	–	–	–	–	–	–	–		

¹Type 1 Enclosure: 200-600 Amp devices available factory reversed for bottom feed. Add "B" suffix.

²Available with viewing window. Add "W" suffix.

³Farm switch with oversize Type 3R enclosure and vertical hinge. See page 40 for dimensions.

⁴Suitable for use as service entrance equipment except on 1200 A solidly grounded wye systems per NEC 230.95

600 V DC rated heavy duty safety switches

Product number					DC horsepower ratings				
Amperage rating	NEMA type 1 indoor	NEMA type 3R outdoor	NEMA type 5, 12	125 V DC		250 V DC		600 V DC	
				Standard fuse	Time delay	Standard fuse	Standard fuse	Time delay	
Fusible 2-pole 2-wire 600 V DC 50/60 Hz									
	30	TH2261DC	TH2261RDC	TH2261JDC	2	3	5	10	15
	60	TH2262DC	TH2262RDC	TH2262JDC	5	–	10	25	–
	100	TH2263DC	TH2263RDC	TH2263JDC	–	–	20	25	–
Non-fusible 2-pole 2-wire 600 V DC 50/60 Hz									
	30	THN2261DC	THN2261RDC	THN2261JDC	3	–	5	15	–
	60	THN2262DC	THN2262RDC	THN2262JDC	5	–	10	25	–
	100	THN2263DC	THN2263RDC	THN2263JDC	–	–	20	25	–

Heavy duty safety switches

6-Pole heavy duty safety switches

Fusible

	Amperage rating	Product number NEMA type 1, 3R, 5, 12 indoor/outdoor	Horsepower rating				DC HP
			Single-phase 240 V AC		Three-phase 240 V AC		250 V DC
			Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse
Fusible 6-pole 6-wire 240 V 50/60 Hz							
	30	TH6621	1.5	3	3	7.5	5
	60	TH6622	3	10	7.5	15	10
	100	TH6623	7.5	15	15	30	20
	200	TH6624	15	–	25	60	40

							Horsepower rating				DC HP
	Amperage rating	Product number NEMA type 1, 3R, 5, 12 indoor/outdoor	Single-phase 480 V AC		Three-phase 480 V AC		Single-phase 600 V AC		Three-phase 600 V AC		250 V DC
			Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse
			Fusible 6-pole 6-wire 600 V 50/60 Hz								
	30	TH6661	3	7.5	5	15	3	10	7.5	20	5
	60	TH6662	5	20	15	30	10	25	15	50	10
	100	TH6663	10	30	25	60	15	40	30	75	20
	200	TH6664	25	50	50	125	30	50	60	150	40

Non-fusible

							Horsepower rating		DC HP
	Amperage rating	Product number NEMA type 1, 3R, 5, 12 indoor/outdoor	Single-phase	Three-phase	Single-phase	Three-phase	Single-phase	Three-phase	250 V DC
			240 V AC standard		480 V AC standard		600 V AC standard		Standard
			Non-fusible 6-pole 6-wire 600 V 50/60 Hz						
	30	THN6661	3	7.5	7.5	15	10	20	5
	60	THN6662	10	20	20	30	25	50	10
	100	THN6663	15	30	30	60	40	75	20
	200	THN6664	15	50	50	125	50	150	40

Interlocked receptacle switches

Amperage rating	Product number		Receptacle manufacturer	Mating receptacle	Horsepower rating
	NEMA type 5, 12 indoor	NEMA type 4/4X			
Fusible 3-pole 3-wire 600 V 50/60 Hz					
60	TH3362JCH	TH3362JCHSS	Crouse Hinds	Arktite #APJ6485	For horsepower ratings, see switch without "CH" suffix.
Non-fusible 3-pole 3-wire 600 V 50/60 Hz					
60	THN3362JCH	THN3362JCHSS	Crouse Hinds	Arktite #APJ6485	For horsepower ratings, see switch without "CH" suffix.

Heavy duty stainless steel safety switches

Stainless steel safety switches are designed for commercial and industrial applications in corrosive environments where safety, high performance and continuity of service are essential. They are suitable for use as service equipment. The conductor rating is 60/75 °C. Horsepower ratings are to UL listed maximums. Short circuit ratings are UL listed to 200,000 rms symmetrical amps when Class J or R fuses are installed.

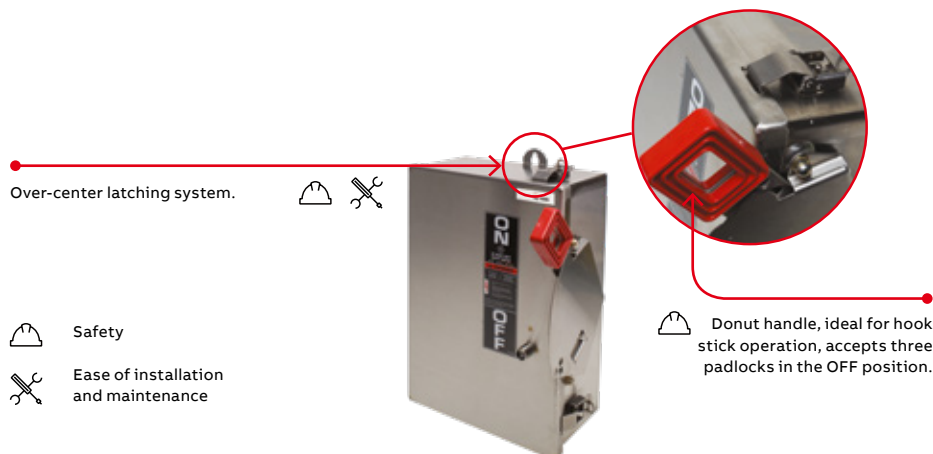
We offer two types of NEMA 4X enclosures:

- Grade 304 stainless steel (order product numbers with SS suffix)
- Grade 316 stainless steel (order product numbers with SS316 suffix)

All our heavy duty stainless steel safety switches carry the following certifications:

- UL listed and cUL listed (UL98 enclosed switches/ CSA-C22.2 No. 4-04)
- Federal specification WS-865C
- NEMA enclosed safety switch standard KS1-2013
- Seismic certified

Features



Heavy duty stainless steel safety switches

NEMA type 4X

NEMA type 4X enclosure grade 304 stainless steel (see footnotes below for 316 stainless steel offering)

		Product number	Horsepower ratings				DC HP ratings
			Single-phase 240 V AC		Three-phase 240 V AC		250 V DC
Amperage			Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse
Fusible 2-pole 2-wire 240 V 50/60 Hz							
	30	TH2221SS ^{1,2}	1.5	3	–	–	5
	60	TH2222SS ^{1,2}	3	10	–	–	10
Fusible 2-pole 3-wire 240 V 50/60 Hz							
	30	TH3221SS ^{1,2}	1.5	3	–	–	5
	60	TH3222SS ^{1,2}	3	10	–	–	10
	100	TH3223SS ^{1,2}	7.5	15	–	–	20
	200	TH3224SS ^{1,2}	15	–	–	–	40
	400	TH3225SS	–	–	50	125	50
	600	TH3226SS	–	–	75	200	50
Fusible 3-pole 3-wire 240 V 50/60 Hz							
	30	TH3321SS ^{1,2}	1.5	3	3	7.5	5
	60	TH3322SS ^{1,2}	3	10	7.5	15	10
Fusible 3-pole 4-wire 240 V 50/60 Hz							
	30	TH4321SS ^{1,2}	1.5	3	3	7.5	5
	60	TH4322SS ^{1,2}	3	10	7.5	15	10
	100	TH4323SS ^{1,2}	7.5	15	15	30	20
	200	TH4324SS ^{1,2}	15	–	25	60	40
	400	TH4325SS	–	–	50	125	50
	600	TH4326SS	–	–	75	200	50

			Horsepower ratings										DC HP ratings		
			Three-phase 240 V AC		Single-phase 480 V AC		Three-phase 480 V AC		Single-phase 600 V AC		Three-phase 600 V AC		125 V DC		250 V DC
			Std. fuse	Time delay	Std. fuse	Time delay	Std. fuse	Time delay	Std. fuse	Time delay	Std. fuse	Time delay	Std. fuse	Time delay	Std. fuse
Amperage	Product number														
Fusible 3-pole 3-wire 600 V 50/60 Hz															
	30	TH3361SS ^{1,2}	–	7.5	3	7.5	5	15	3	10	7.5	20	2	3	5
	60	TH3362SS ^{1,2}	–	–	5	20	15	30	10	25	15	50	5	–	10
	100	TH3363SS ^{1,2}	–	–	10	30	25	60	15	40	30	75	–	–	20
	200	TH3364SS ^{1,2}	–	–	25	50	50	125	30	50	60	150	–	–	40
	400	TH3365SS ²	50	125	–	–	100	250	–	–	125	350	–	–	50
	600	TH3366SS ²	75	200	–	–	150	400	–	–	200	500	–	–	50
Non-fusible 3-pole 3-wire 600 V 50/60 Hz															
	30	THN3361SS ^{1,2}	10	–	7.5	–	20	–	10	–	30	–	3	–	5
	60	THN3362SS ^{1,2}	20	–	20	–	50	–	25	–	60	–	5	–	10
	100	THN3363SS ^{1,2}	40	–	30	–	75	–	40	–	100	–	–	–	20
	200	THN3364SS ^{1,2}	60	–	50	–	125	–	50	–	150	–	–	–	40
	400	THN3365SS ²	125	–	–	–	250	–	–	–	350	–	–	–	50
	600	THN3366SS ²	200	–	–	–	400	–	–	–	500	–	–	–	50

¹Available with viewing window – add W suffix.

²Available in NEMA type 4X enclosure grade 316 stainless steel – add “316” suffix.

Note: See page 9 for short circuit ratings and lug wire sizes line and load terminals.

Heavy duty stainless steel safety switches

DC rated

DC rated heavy duty stainless steel safety switches

		Product number	DC HP ratings					
			125 V DC		250 V DC		600 V DC	
Amperage			Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse	Time delay
Fusible 2-pole 2-wire 600 V DC 50/60 Hz								
	30	TH2261SSDC	2	3	5	–	10	15
	60	TH2262SSDC	5	–	10	–	25	
	100	TH2263SSDC		–	20	–	25	
Non-fusible 2-pole 2-wire 600 V DC 50/60 Hz								
	30	THN2261SSDC	3	–	5	–	15	–
	60	THN2262SSDC	5	–	10	–	25	–
	100	THN2263SSDC	–	–	20	–	25	–

Mill duty safety switches

Mill duty safety switches are designed for mills, foundries and industrial applications where safety, high performance and continuity of service are required. A standard NEMA 12 enclosure protects the interior from dust, lint, fibers, coolants, metal filings and other non-corrosive contaminants. The stainless steel NEMA 4/4X enclosure additionally shields the interior from corrosive environments, hose-directed water and splashing and falling liquids. Interlocks on all enclosure covers assure gasket compression before the switch can be turned ON. A special knob located on the front of the switch allows access to the switch while wearing gloves. These switches are suitable for use as service entrance equipment when installed in accordance with the National Electric Code.

Mill duty switches are available in 30–600 amps, 600 V AC, 600 V DC maximum, fusible or non-fusible units. Horsepower ratings are to UL listed maximums. Short circuit ratings are UL listed to 200,000 rms symmetrical amps when Class J or R fuses are installed.

All our mill duty safety switches carry the following certifications:

- UL listed and cUL listed (UL98 enclosed switches/CSA-C22.2 No. 4-04)
- Federal specification WS-865C
- NEMA enclosed safety switch standard KS1-2013
- Seismic certified

Type TH interrupting and withstand ratings

Ampere rating	Interrupting rating amps ³ symmetrical 600 V AC, 3-phase	Fuse clearing ⁴ (I ² t x 10 ³)
30	360	50
60	1200	200
100	1200	500
200	3,400	2,000
400	10,000	6,000
600	10,000	12,000

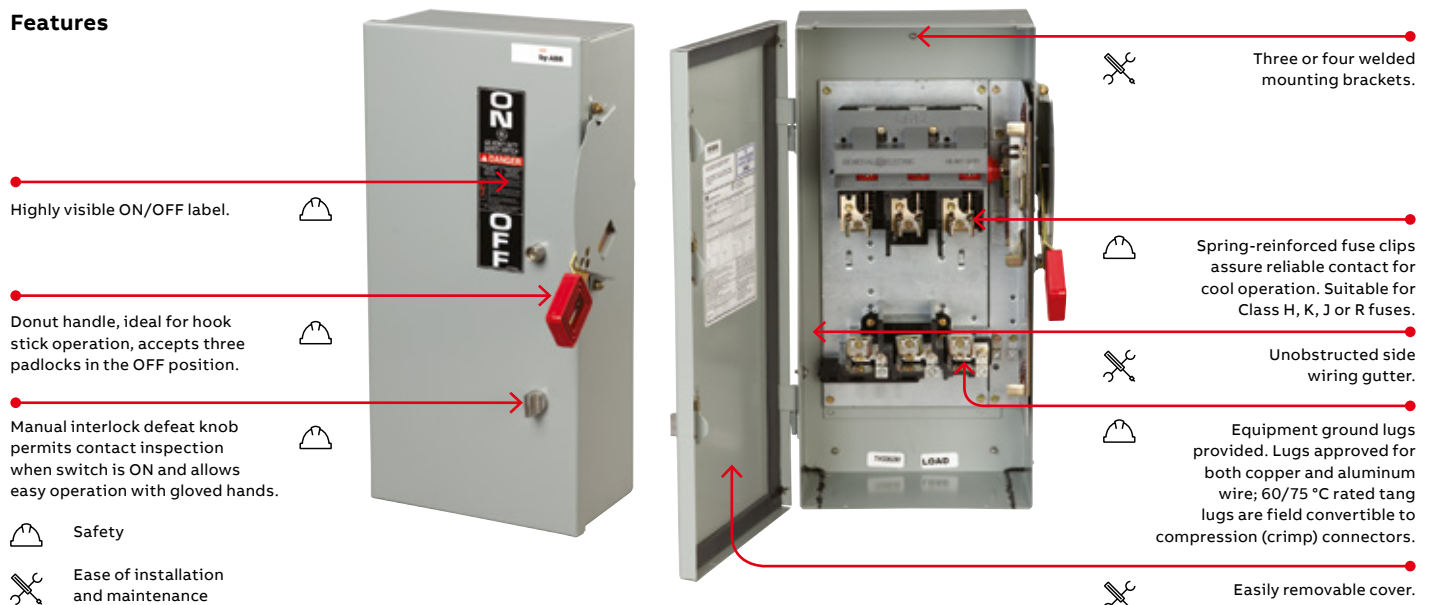
³Maximum current at rated voltage that switch will interrupt three times without assistance from an external device.

⁴Peak let-through energy for withstandability and circuit closing tests.

Lug-wire sizes line and load terminals

Ampere rating	Wire range AWG/kcmil copper	Wire range AWG/kcmil aluminum
30 (240 V)	14–8	12–8
30 (600 V)	14–6	14–6
60	14–2	14–2
100	14–1/0	12–1/0
200	6–250	6–250
400	(1) 2–600 or (2) 1/0–250	(1) 2–600 or (2) 1/0–250
600	(2) 4–600	(2) 4–600

Features



Mill duty safety switches

Fusible and non-fusible

Amperage rating	Product number		Horsepower rating				DC HP rating
	NEMA type 12	NEMA type 4X grade 304 stainless steel	Single-phase 240 V AC		Three-phase 240 V AC		250 V DC
			Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse
Fusible 2-pole 2-wire 240 V 50/60 Hz							
30	TH2221M	TH2221MSS	1.5	3	–	–	5
60	TH2222M	TH2222MSS	3	10	–	–	10
100	TH2223M	TH2223MSS	7.5	15	–	–	10
200	TH2224M	TH2224MSS	15	–	–	–	40
Fusible 3-pole 3-wire 240 V 50/60 Hz							
30	TH3321M	TH3321MSS	1.5	3	3	7.5	5
60	TH3322M ¹	TH3322MSS	3	10	7.5	15	10
100	TH3323M	TH3323MSS	7.5	15	15	30	20
200	TH3324M	TH3324MSS	15	–	25	60	40
400	TH3325M	TH3325MSS	–	–	50	125	50
600	TH3326M	TH3326MSS	–	–	75	200	50

Amperage rating	Product number						Horsepower rating						DC HP rating		
	NEMA type 4X		Three-phase 240 V AC		Single-phase 480 V AC		Three-phase 480 V AC		Single-phase 600 V AC		Three-phase 600 V AC		125 V DC		250 V DC
	NEMA type 12	grade 304 stainless steel	Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse
Fusible 3-pole 3-wire 600 V 50/60 Hz															
30	TH3361M ¹	TH3361MSS	–	7.5	5	7.5	5	15	3	10	7.5	20	2	3	5
60	TH3362M	TH3362MSS ¹	–	–	5	20	15	30	10	25	15	50	5	–	10
100	TH3363M	TH3363MSS	–	–	10	30	25	60	15	40	30	75	–	–	20
200	TH3364M	TH3364MSS	–	–	25	50	50	125	30	50	60	150	–	–	40
400	TH3365M	TH3365MSS	50	125	–	–	100	250	–	–	125	350	–	–	50
600	TH3366M	TH3366MSS	75	200	–	–	150	400	–	–	200	500	–	–	50
Non-fusible 3-pole 3-wire 600 V 50/60 Hz															
30	THN3361M	THN3361MSS ¹	10	–	7.5	–	20	–	10	–	30	–	–	–	5
60	THN3362M ¹	THN3362MSS	20	–	20	–	50	–	25	–	60	–	–	–	10
100	THN3363M	THN3363MSS	40	–	30	–	75	–	40	–	100	–	–	–	20
200	THN3364M	THN3364MSS	60	–	50	–	125	–	50	–	150	–	–	–	40
400	THN3365M	THN3365MSS	125	–	–	–	250	–	–	–	350	–	–	–	50
600	THN3366M	THN3366MSS	200	–	–	–	400	–	–	–	500	–	–	–	50

¹ Available with viewing window; add W suffix

Note: All mill duty switches accept neutral and auxiliary contact kits. See pages 26–27.

Mill duty safety switches

DC rated, ratings and wire sizes

DC rated mill duty safety switches

Product number		125 V DC		250 V DC		Horsepower rating	
Amperage rating	NEMA type 12	Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse	Time delay
Fusible 2-pole 2-wire 600 V DC 50/60 Hz							
30	TH2261MDC	2	3	5	–	10	15
60	TH2262MDC	5	–	10	–	25	–
100	TH2263MDC	–	–	20	–	25	–
Non-fusible 2-pole 2-wire 600 V DC 50/60 Hz							
30	THN2261MDC	3	–	5	–	15	–
60	THN2262MDC	5	–	10	–	25	–
100	THN2263MDC	–	–	20	–	25	–

¹ Available with viewing window; add W suffix
Note: All mill duty switches accept neutral and auxiliary contact kits. See pages 26–27.



Double throw safety switches

—
01 60 A fusible 3-pole
600 V NEMA 1
TDT3362

Double throw safety switches are designed for applications where safety, high performance and continuity of service are required. Double throw safety switches are used for switching one load between two different power sources such as utility and backup generators. Applications include commercial buildings, healthcare facilities, manufacturing/mining and more.

- Our double throw safety switches meet the following standards:
- UL listed and cUL listed (UL98 enclosed switches/ CSA-C22.2 No. 4-04)
 - Federal specification W-S-865C
 - NEMA enclosed switch standard KS1 – 2013
 - Seismic certified

Double throw safety switch short circuit ratings

Maximum system voltage	Ampere rating	Class	UL listed fusing	NEMA enclosure type
			Withstand rating (rms sym. amps)	
Fusible				
600 V AC	30–1200	R	100,000	1
		J	100,000	3R
		T	100,000	4X
		L	100,000	
Non-fusible: Fuse withstand ratings apply to non-fused switches when protected by an upstream fuse as listed				
600 V AC	30–1200	No upstream protection	10,000	1
		R upstream	100,000	3R
		J upstream	100,000	4X
		T upstream	100,000	
		L upstream	100,000	

Lug wire sizes line and load terminals

Ampere rating	Wire range AWG/kcmil Cu/Al
30	14–2
60	14–1/0
100	14–1/0
200	6–250
400	(2) 1/0–(2) 300 or (1) 1/0–(1) 750 ⁶
600	(1) 2–(1) 600 or (1) 1/0–(1) 750 ⁷
800	(3) 250–(3) 500
1200	(4) 1/0–(4) 750

⁶Single barrel lug that accepts one or two cables per phase as detailed above.
⁷Double barrel lug that accepts two cables per phase as detailed above.

Features

Highly visible ON/OFF label.

Lockable three position (ON-OFF-ON) handle.

Lockable cover latch.

01

Safety

Ease of installation and maintenance

Self-leveling three-point mounting pattern on 30–200 A models. Z-rail mounting brackets on 400–1200 A models.

Bright red handle.

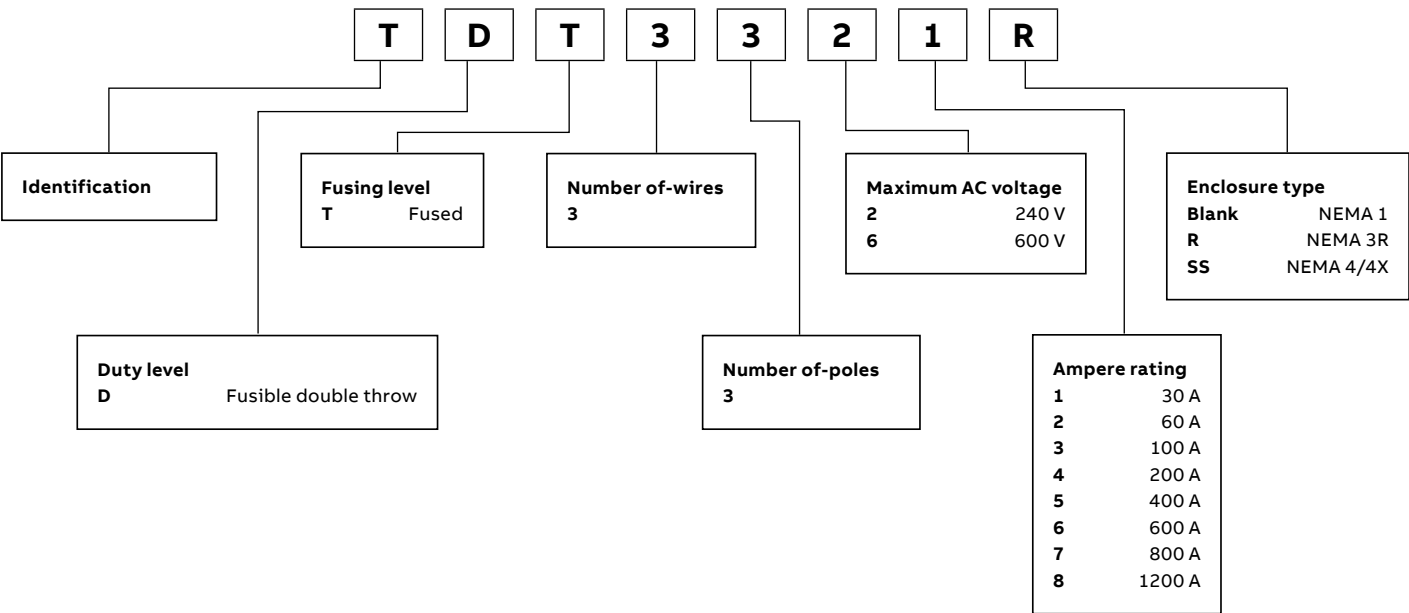
Quick-make, quick-break mechanisms 30–1200 A.

Ample wire-bending space.

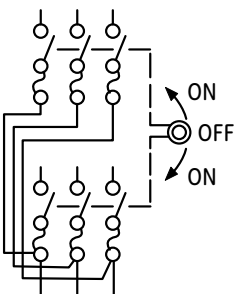
Use of common fuses in stacked design; fewer fuses required and reduced enclosure size: 600–1200 A (not shown).

Double throw safety switches

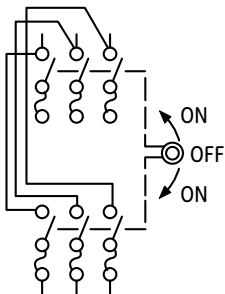
Fusible



Diagrams



Fusible 3-pole 3-wire 240 V, two sources one load



Fusible 3-pole 3-wire 600 V, one source two loads

Double throw safety switches

Fusible

Amperage rating	Product number		Horsepower rating															
	NEMA type 1 indoor	NEMA type 3R outdoor	Single-phase								Three-phase				DC HP rating			
			120 V AC		240 V AC		120 V AC		240 V AC		480 V AC		600 V AC		125 V DC		250 V DC	
			Std. fuse	Time delay	Std. fuse	Time delay	Std. fuse	Time delay	Std. fuse	Time delay	Std. fuse	Time delay	Std. fuse	Time delay	Std. fuse	Time delay	Std. fuse	Time delay
Fusible 3-pole 3-wire 240 V																		
30	TDT3321	TDT3321R	0.5	2	1.5	3	1.5	3	3	7.5	–	–	–	–	2	3	5	5
60	TDT3322	TDT3322R	1.5	3	3	10	3	7.5	7.5	15	–	–	–	–	5	–	10	10
100	TDT3323 ¹	TDT3323R ¹	–	–	7.5	15	–	–	15	30	–	–	–	–	–	–	20	–
200	TDT3324 ¹	TDT3324R ¹	–	–	15	15	–	–	25	60	–	–	–	–	–	–	40	40
400	TDT3325 ¹	TDT3325R ¹	–	–	–	–	–	–	50	125	–	–	–	–	–	–	50	–
600	TDT3326 ^{3,4}	TDT3326R ^{3,4}	–	–	–	–	–	–	50	125	100	250	125	350	–	–	50	50
800	TDT3327 ^{3,4}	TDT3327R ^{3,4}	–	–	–	–	–	–	100	125	–	–	–	–	–	–	–	–
1200	TDT3328 ⁴	TDT3328R ⁴	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–	–

Product number				Horsepower rating							
				Single-phase							
Amperage rating	NEMA type 1 indoor	NEMA type 3R outdoor	NEMA type 4x stainless steel	120 V AC		240 V AC		480 V AC		600 V AC	
				Std. fuse	Time delay	Std. fuse	Time delay	Std. fuse	Time delay	Std. fuse	Time delay
Fusible 3-pole 3-wire 600 V											
30	TDT3361	TDT3361R	TDT3361SS	0.5	2	–	–	3	7.5	3	10
60	TDT3362 ¹	TDT3362R ¹	TDT3362SS ¹	1.5	3	3	10	5	20	10	25
100	TDT3363 ¹	TDT3363R ¹	TDT3363SS ¹	–	–	7.5	15	10	30	15	40
200	TDT3364 ¹	TDT3364R ¹	TDT3364SS ¹	–	–	15	15	25	50	30	50
400	TDT3365 ²	TDT3365R ²	TDT3365SS ²	–	–	–	–	–	–	–	–
600	TDT3366 ^{3,4}	TDT3366R ^{3,4}	–	–	–	–	–	–	–	–	–
800	TDT3367 ^{3,4}	TDT3367R ^{3,4}	–	–	–	–	–	–	–	–	–
1200	TDT3368 ^{4,5}	TDT3368R ^{4,5}	–	–	–	–	–	–	–	–	–

¹Class J fuse option available when load base is moved.

²400 amp at 600 V switches available with Class T fuse provision only.

³Field convertible to Class T.

⁴Stacked design requiring only one set of fuses.

⁵Suitable for use as service entrance equipment except on 1200 A solidly grounded wye systems per NEC 230.95

Product number														
Amperage rating	NEMA type 1 indoor	NEMA type 3R outdoor stainless steel	NEMA type 4x	Three-phase								DC HP rating		
				120 V AC		240 V AC		480 V AC		600 V AC		125 V DC	250 V DC	
				Std. fuse	Time delay	Std. fuse	Time delay	Std. fuse	Time delay	Std. fuse	Time delay	Time delay	Std. fuse	Time delay
Fusible 3-pole 3-wire 600 V														
30	TDT3361	TDT3361R	TDT3361SS	1.5	3	3	7.5	5	15	7.5	20	3	–	5
60	TDT3362 ¹	TDT3362R ¹	TDT3362SS ¹	3	7.5	7.5	15	15	30	15	50	5	–	10
100	TDT3363 ¹	TDT3363R ¹	TDT3363SS ¹	–	–	15	30	25	60	30	75	–	–	20
200	TDT3364 ¹	TDT3364R ¹	TDT3364SS ¹	–	–	25	25	50	125	60	150	–	40	40
400	TDT3365 ²	TDT3365R ²	TDT3365SS ²	–	–	50	125	100	250	125	350	–	50	50
600	TDT3366 ^{3,4}	TDT3366R ^{3,4}	–	–	–	50	125	100	250	125	350	–	50	–
800	TDT3367 ^{3,4}	TDT3367R ^{3,4}	–	–	–	100	125	200	250	250	350	–	–	–
1200	TDT3368 ^{4,5}	TDT3368R ^{4,5}	–	–	–	–	–	–	–	–	–	–	–	–

¹Class J fuse option available when load base is moved.

²400 amp at 600 V switches available with Class T fuse provision only.

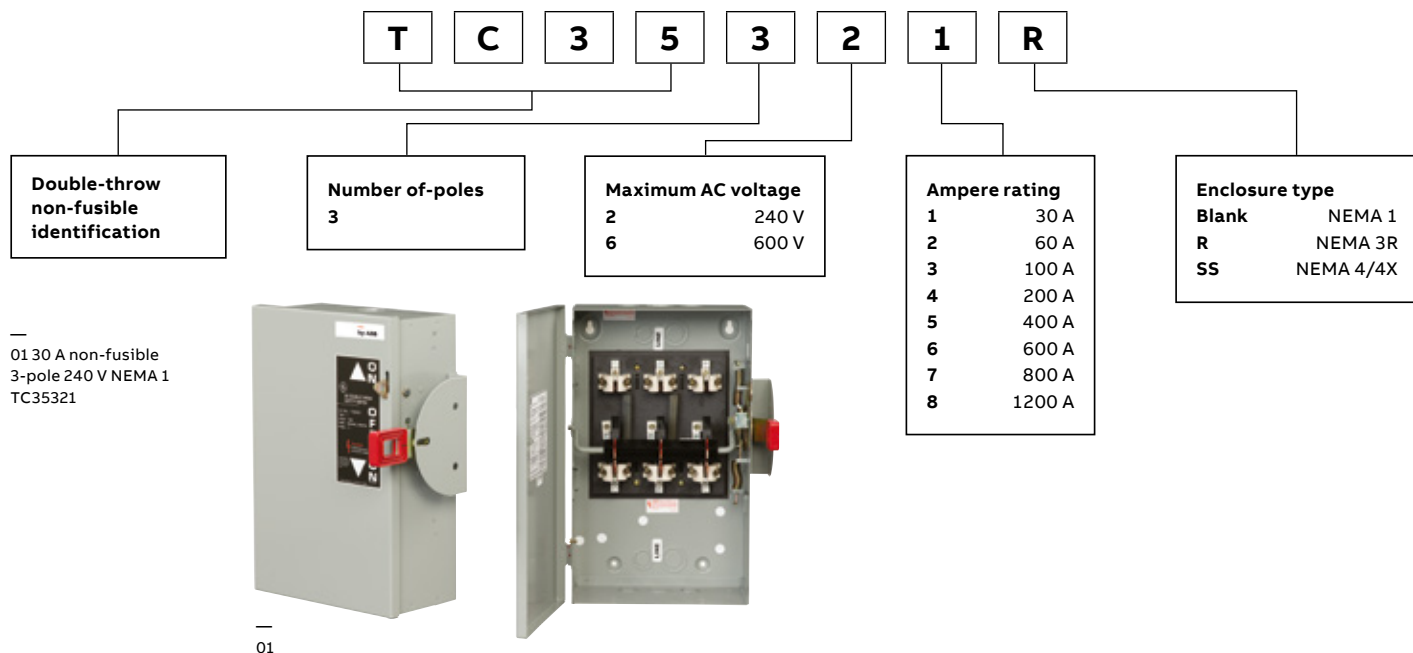
³Field convertible to Class T.

⁴Stacked design requiring only one set of fuses.

⁵Suitable for use as service entrance equipment except on 1200 A solidly grounded wye systems per NEC 230.95

Double throw safety switches

Non-fusible



Amperage rating	Product number			Horsepower rating			DC HP rating		Lug wire sizes line and load terminals
	NEMA type 1 indoor	NEMA type 3R outdoor	NEMA type 4X stainless steel	Three-phase					
				240 V AC	480 V AC	600 V AC	125 V DC	250 V DC	
Non-fusible 3-pole 3-wire 240 V 50/60 Hz									
30	TC35321	TC35321R	–	2	–	–	–	–	14–8 (Cu)
60	TC35322	TC35322R	–	3	–	–	–	–	14–4 (Cu)
100	TC35323	TC35323R	–	7.5	–	–	–	–	14–1/0 (Cu)
200	TC35324	TC35324R	–	15	–	–	–	–	6–250 (Cu)
400	TC35325	TC35325R	–	30	–	–	–	–	(2) 1/0–250 (Cu) or 2–600 (Cu)
600	TC35326 ²	–	–	50	–	–	–	–	(2) 3/0–350 (Cu) or 2–600 (Cu)
	–	TC35326R	–	125	250	350	–	50	(2) 250 – (2) 500 (Cu/Al)
800	TC35327 ⁴	TC35327R ⁴	–	125	–	–	–	–	(3) 250 – (3) 500 (Cu/Al)
1200	TC35328	TC35328R	–	–	–	–	–	–	(4) 1/0 – (4) 750 (Cu/Al)
Non-fusible 3-pole 3-wire 600 V 50/60 Hz									
30	TC35361	TC35361R	TC35361SS	10	20	30	3	5	14–2 (Cu/Al)
60	TC35362	TC35362R	–	10	10	10	–	–	14–4 (Cu)
	–	–	TC35362SS	20	50	60	5	10	14–2 (Cu/Al)
100	TC35363	TC35363R	–	15	15	15	–	–	14–1/0 (Cu)
	–	–	TC35363SS	40	75	100	–	20	14–1/0 (Cu/Al)
200	TC35364	TC35364R	–	30	30	30	–	–	6–250 (Cu)
	–	–	TC35364SS	60	125	150	–	40	6–250 (Cu/Al)
400	TC35365 ^{1,2,3}	–	–	–	–	–	–	–	(2) 1/0–250 (Cu) or 2–600 (Cu)
	–	TC35365R	TC35365SS	125	250	350	–	50	(2) 1/0 – (2) 300 (Cu/Al) or 5 (1) 1/0 – 750 (Cu/Al)
600	TC35366 ^{1,2}	–	–	–	–	–	–	–	(2) 3/0–350 (Cu) or 2–600 (Cu)
	–	TC35366R	TC35366SS	125	250	350	–	–	(2) 250 – (2) 500 (Cu/Al)
800	TC35367 ⁴	TC35367R ⁴	TC35367SS	125	250	350	–	–	(3) 250 – (3) 500 (Cu/Al)
1200	TC35368 ⁶	TC35368R ⁶	–	–	–	–	–	–	(4) 1/0 – (4) 750 (Cu/Al)

¹Not UL Listed.²Not suitable for use as service equipment per NEC Article 702³No provision for auxiliary contact kit⁴Available with factory-installed neutral. Add N suffix. For example: TC35327N.⁵Single-barrel lug that accepts one or two cables per phase.⁶Suitable for use as service entrance equipment except on 1200 A solidly grounded wye systems per NEC 230.95

Emergency power transfer switches

—
01 100 A non-fusible
2-pole 120/240 V
NEMA 3R
TC10323R

Type TC emergency power transfer switches are specifically designed to permit the connection of power from a standby generator or other emergency source of electricity and are ideally suited for outdoor applications in rural dwellings and farm buildings. They are suitable for use as service entrance equipment when installed in accordance with the National Electrical Code. Emergency power transfer switches are non-fusible and are available in 100–200 amps for 120/240 V three-wire systems and in 200 amps for 240 V four-wire systems, in NEMA type 3R (outdoor) enclosures. The side operated handle can be locked in either the ON or OFF position.

- All our emergency power transfer switches carry the following certifications:
- UL listed and cUL listed (UL98 enclosed switches/ CSA-C22.2 No. 4-04)
 - Federal specification WS-865C
 - NEMA enclosed safety switch standard KS1-2013
 - Seismic certified

Features

Wide range of interchangeable rain-tight conduit hubs available.

Lockable three position (ON-OFF-ON) handle.

Safety

Ease of installation and maintenance



01

Galvanized steel enclosure with drip shield.

Ample wiring space.

Positive make and break is provided by fiber loop straps between knife blade contacts and one-piece operating yoke.

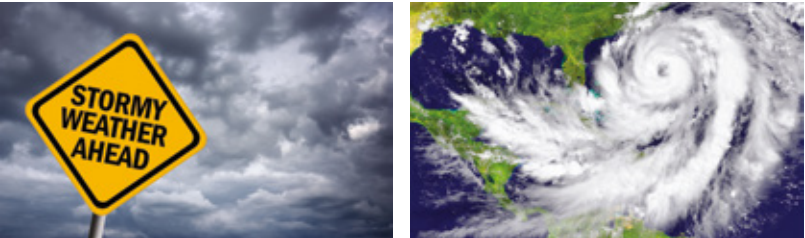
Plated copper current-carrying parts increase longevity and performance.

Bonding strap can be used to ground factory-installed neutral for service entrance applications.

Ample wiring space.

Emergency power transfer switches

Amperage rating	Wire range AWG/ kcmil CU/AL	Product number NEMA type 3 outdoor
Non-fusible 2-pole 3-wire 120/240 V 50/60 Hz		
100	12–1	TC10323R
200	6–250	TC10324R
Non-fusible 3-pole 4-wire 240 V 50/60 Hz		
200	6–250	TC10424R



Safety switch accessories

- 01 Equipment ground kit
TGL1
- 02 Equipment ground kit
TNG3
- 03 Neutral kit insulated,
groundable and bondable
TNIA64

- NEMA type 1 and 3R enclosures
- 30–600 amperes: TG and TH
- 800–1200 amperes: TC (single throw fusible only)

Equipment ground kits

Ampere rating	Product number	Wire range AWG/kcmil copper	Wire range AWG/kcmil aluminum
30	TGL1	(4) 14–8, (3) 14–4	(4) 12–8, (3) 6–4
60			
100	TNG3	(3) 10–1/0	(3) 10–1/0
200			
400	TGL6	(3) 2–250	(3) 2–250
600			

01

Neutral kit insulated, groundable and bondable

Ampere rating	Product number	System voltage (V AC)	Fusible/ non-fusible	Wire range AWG/kcmil copper	Wire range AWG/kcmil aluminum
30	TNI21	240	Either	14–8	12–8
30	TNI62 ¹	600	Either	12–2	12–2
60	TNI62 ¹	600	Non-fusible	12–2	12–2
60	TNIA62	600	Fusible	12–2	12–2
100	TNI63 ¹	600	Non-fusible	10–1/0	10–1/0
100	TNIA63	600	Fusible	10–1/0	10–1/0
200	TNIA64	600	Either	2–250	2–250
400	TNI65	240	Either	(1) 2–600 or (2) 1/0–250	(1) 2–600 or (2) 1/0–250
400	TNI65A	or 600	Either	(1) 350–800	(1) 350–800
600	TNI66		Either	(2) 4–500	(2) 4–500
800	TNI67		Fusible	(3) 2–600 or (6) 1/0–250	(3) 2–600 or (6) 1/0–250
1200	TNI68A		Fusible	(4) 3/0–800	(4) 3/0–800

Switching neutral: Order standard switch of required number of-poles and use dummy fuse in neutral-pole.

¹Not suitable for type TG switches.

03

Safety switch accessories

- NEMA type 1 and 3R enclosures
- Heavy duty switches
- 30–600 Amperes: TH

Auxiliary contact kits

Auxiliary contacts designed to open before switch blades. UL listed for field installation.
Product number listed is for field-installed kit.

Ampere rating	No. of poles	Contacts	Contact ratings	Product number
30	2 3	DPDT	10 A, 125/250 V AC 0.30 A, 125 V DC 0.15 A, 250 V DC	THAUX21D
30	2 3	SPDT	15 A, 600 V AC 0.50 A, 125 V DC 0.25 A, 250 V DC	THAUX61S
60 100 200	2 3	DPDT	15 A, 600 V AC 0.50 A, 125 V DC 0.25 A, 250 V DC	THAUX64D
400 600	2 3	DPDT	15 A, 600 V AC 0.50 A, 125 V DC 0.25 A, 250 V DC	THAUX66D
30 60 100	6	DPDT	15 A, 600 V AC 0.50 A, 125 V DC 0.25 A, 250 V DC	THAUX66D
200	6	DPDT	15 A, 600 V AC 0.50 A, 125 V DC 0.25 A, 250 V DC	THAUX66D2

Contact pilot duty ratings — 600 volt kits

Inrush current (A)			AC	DC (resistive)	
Volts	NC	NO	Break normal current	Volts	Break normal current
115	30	15	15	125	0.5
230	30	15	25	0.25	—
460	30	15	15	—	—
575	15	15	2	—	—

Semi-dust-tight door gasket kits

Types TH indoor, TG and TH outdoor switches.
Product number listed is for field-mounted kit.

Ampere rating	Product number
30 60 100	THG106
200	THG107
400 600	THG108

Safety switch accessories

- NEMA type 4/4X, 12 and mill duty enclosures
- Heavy duty switches
- 30–600 amperes: TH

Lug wire sizes

Line and load terminals

Ampere rating	Factory-installed		Field-installed crimp lugs (see table on page 29)	
	Wire range AWG/kcmil copper	Wire range AWG/kcmil aluminum	Wire range AWG/kcmil copper	Wire range AWG/kcmil aluminum
30 (250 V)	14–8	12–8	–	–
30 (600 V)	14–6	14–6	14–8	–
60	14–2	14–2	8–4	–
100	14–1/0	12–1/0	6–1/0	6–2/0
200	6–250	–	1/0–250	–
400	(1) 2–600 or (2) 1/0–250	–	(2) 300–600 or (1) 750	(2) 250–600 or (1) 750
600	(2) 4–600	–	(2) 300–600 or (1) 750	(2) 250–600 or (1) 750

Equipment ground terminals are factory installed—two lugs supplied per switch, provision for one additional lug.

Switch ampere rating	Factory-installed		Field-installed crimp lugs (see table on page 29)	
	Copper	Aluminum	Copper	Aluminum
30	14–6	14–6	14–8	–
60	14–6	14–6	14–8	–
100	14–4	14–4	8	6
200	14–4	14–4	6	4
400	14–1/0	14–1/0	3–2	1
600	14–2/0	14–2/0	1	2/0

Auxiliary contact kits

Auxiliary contacts designed to open before switch blades. UL listed for field installation. Product number listed is for field-installed kit. For auxiliary contact kits, see page 27.

Optional copper lug neutrals

Ampere rating	Fusible	Lug wire size, AWG/kcmil, cu only	Product number
30–60	No	14–2	TNIJA62CL

Neutral kit insulated, groundable and bondable

Ampere rating	Product number	System voltage (V AC)	Fusible/ non-fusible	Lug wire size AWG/ kcmil factory-installed copper	Lug wire size AWG/kcmil factory-installed aluminum	Lug wire size AWG/kcmil field- installed crimp lugs copper	Lug wire size AWG/ kcmil field-installed crimp lugs aluminum
30	TNIJ61	240	Fusible	14–8	12–8	–	–
30	TNIJ61	600 ¹	Either	14–6	14–6	14–8	–
60	TNIJ62	240 ²	Fusible	14–2	14–2	8–4	–
60	TNIJ62	600 ²	Fusible	14–2	14–2	8–4	–
60	TNIJ62	600	Fusible	14–2	14–2	8–4	–
60	TNIJA62	600	Non-fusible	14–2	14–2	8–4	–
100	TNIJ63	240	Either	14–1/0	12–1/0	6–1/0	6–2/0
200	TNIJ64	or 600	Either	6–250	6–250	1/0–250	1/0–250
400–600	TNIJ66		Either	(2) 4–600	(2) 4–600	(2) 300–600 or (1) 750	(2) 250–600 or (1) 750

¹Type 4, 4X, 12

²Mill duty type

Safety switch accessories

- NEMA type 4/4X, 12 and mill duty enclosures
- Heavy duty switches
- 30–600 amperes: TH

— Crimp-type connectors — field replaceable¹

Line and load terminals

Switch ampere rating	Lug wire size AWG/kcmil	ABB product number		Burndy® product number	
		Copper	Aluminum	Copper	Aluminum
30	14–12	–	–	YAV12 G2	–
30	12–10	–	–	YAV10	–
30	8	54104	–	YAV8C-L	–
60	8	54130	–	YAV8C-L1	–
60	6	54105	–	YAV6C-L	–
60	4	54106	–	YAV4CLY1	–
100	6	54105	60107	–	–
100	4	54106	60112	–	–
100	2	54017	60116	–	–
100	1	54108	60122	–	–
100	1/0	–	–	YA25-L	YA25A1
200	1/0	54153	60129	–	–
200	1/0	54109	60130	–	–
200	2/0	54158	60135	–	–
200	2/0	54110	60136	–	–
200	3/0	54163	60141	–	–
200	3/0	54111	60142	–	–
200	4/0	54168	60147	–	–
200	4/0	54112	60148	–	–
200	250	54173	60153	–	–
200	250	54174	60154	–	–
400 and 600	250	–	60156	–	–
400 and 600	300	54114	60162	–	–
400 and 600	350	54115	60165	–	–
400 and 600	400	54116	–	–	–
400 and 600	500	54118	60171	–	–
400 and 600	600	54120	60174	–	–
400 and 600	750	54123	60178	–	–

— Equipment ground terminals (provision for three per switch)

Switch ampere rating	Lug wire size AWG/kcmil	ABB product number		Burndy product number	
		Copper	Aluminum	Copper	Aluminum
30	10	–	–	–	–
30	8	54104	–	YAV8C-L	–
60	8	54104	–	YAV8C-L	–
100	8	54105	–	–	–
100	6	–	60106	–	–
200	6	54105	–	–	–
200	4	–	60112	–	–
400	3–2	54107	–	–	–
400	1	–	60122	–	–
600	1	54108	–	–	–
600	2/0	–	60134	–	–

¹Not furnished with switches.

Safety switch accessories

—
01 TGRK22 Class
R rejection kit

—
02 TRK46A Class
R rejection kit



—
01

- General duty: TG
- Heavy duty: TH

Class R fusing kit, field installable, general duty, type TG, UL listed

When specifications permit only Class R fuses to be used, these kits may be installed in the safety switch to deter fuses other than Class R from being installed.

- 30–60 A = Fuse clips
- 100–200 A = Rejection pins
- One kit required per two-pole or three-pole switch

Series prefix	Ampere rating	NEMA enclosure type	Product number
TG	30	1, 3R	TGRK12
	60	1, 3R	TGRK22
	100	1, 3R	TGRK42
	200	1, 3R	TGRK42

Class J fuse field conversion kit, heavy duty, type TH, UL listed

TH switches, 30–400 amperes, 600 volt and 100–400 amperes, 240 volt, may be adapted to accept Class J fuses without a kit by moving the load-block toward the switch base and remounting.

- One kit required per two-pole or three-pole switch

Series prefix	Ampere rating	System voltage (V AC)	Product number
TH	600	240 or 600	THJ6
TH	30–400	600	Move load-block
TH	100–400	240	Move load-block

Class R fusing kit, field-installable, heavy duty, type TH, UL listed

When specifications permit only Class R fuses to be used, these kits may be installed in the safety switch to deter fuses other than Class R from being installed.

- 30–60 A = Fuse clips
- 100–600 A = Rejection pins
- One kit required per two-pole or three-pole switch



—
02

Series prefix	Ampere rating	System voltage (V AC)	NEMA enclosure type	Product number
TH	30	240	1, 3R, 4/4X, 12	TRK12B
	30	600	1, 3R	TRK16B
	30	600	4/4X, 12	TRK16SA
	60	240	1, 3R, 4/4X, 12	TRK22A
	60	600	1, 3R, 4/4X, 12	TRK26A
	100	240	1, 3R	TRK46A
	100	240	4/4X, 12	TPBRK36A
	100	600		
	200	240	1, 3R, 4/4X, 12	TRK46A
	200	600		
	400	240	1, 3R, 4/4X, 12	TRK56A
	400	600		
	600	240	1, 3R, 4/4X, 12	TRK66A
	600	600		

Safety switch accessories

- 01 TC200 universal
raintight hub
— 02 THRPLHD6
replacement handle
— 03 THSHLD1



— 01

- **Universal raintight aluminum hubs**
For outdoor enclosures that have removable closing caps.

Nominal conduit diameter (in.)	Product number
$\frac{3}{4}$	TC75
1	TC100
$1\frac{1}{4}$	TC125
$1\frac{1}{2}$	TC150
2	TC200
$2\frac{1}{2}$	TC250

- **Closing cap for universal raintight aluminum hub**

Product number

TCCP

- **Replacement red handle grip for HD switches**

Product number

THGRIP



— 02

- **Replacement handles for HD switches**

Amps min.	Amps max.	Max. volts	Steel type	Description	Product number
30	30	240	Steel	Handle and pouch	THRPLHDL1
30	30	600	Steel		THRPLHDL2
60	200	600	Steel		THRPLHDL3
30	200	600	Stainless		THRPLHDL4
400	600	600	Steel		THRPLHDL6
400	600	600	Stainless		THRPLHDL7

- **Clear line shield replacement kits (for 600 V only)**



— 03

Series prefix	Amps	Volts	Product number
TH	30	600	THSHLD1
	60–100		THSHLD3
	200		THSHLD4

Safety switch accessories

- NEMA Type 1, 3R and 4X (grade 304 stainless steel)
- Double throw switches
- 30–1200 amperes: TC, TDT

Type TC accessories

Amperage rating	Product number				Auxiliary contact			
	NEMA type 1 indoor	NEMA type 3R outdoor	NEMA type 4X grade 304 stainless steel	Neutral kit	Ground kit	1 Normally open 1 Normally closed	2 Normally open 2 Normally closed	Control pole
Non-fusible 3-pole 3-wire 240 V								
30	TC35321	TC35321R	–	TNK100	TGL1	THAUXDT	THAUXDT	–
60	TC35322	TC35322R	–					–
100	TC35323	TC35323R	–	TNK100	TNG3			–
200	TC35324	TC35324R	–	TNK200	TNG3			–
400	TC35325	TC35325R	–	TNK400	TGL6			–
600	TC35326	–	–	–	TGL6			–
	–	TC35326R	–	DT600NK	DS468GK	DS200EK1	DS200EK2	DS16CP
800	TC35327	TC35327R ¹	–	DT800NK				DS16CP
1200	TC35328	TC35328R	–	DT1200NK				–
Non-fusible 3-pole 3-wire 600 V								
30	TC35361	TC35361R	TC35361SS	DT100NK	DS100GK	DS200EK1	DS200EK2	DS16CP
60	TC35362	TC35362R	–	TNK100	TGL1	THAUXDT	THAUXDT	–
	–	–	TC35362SS	DT100NK	DS100GK	DS200EK1	DS200EK2	DS16CP
100	TC35363	TC35363R	–	TNK100	TNG3	THAUXDT	THAUXDT	–
	–	–	TC35363SS	DT100NK	DS100GK	DS200EK1	DS200EK2	DS16CP
200	TC35364	TC35364R	–	TNK200	TNG3	THAUXDT	THAUXDT	–
	–	–	TC35364SS	DT200NK	DS200GK	DS200EK1	DS200EK2	DS16CP
400	TC35365	–	–	TNK400	TGL6	THAUXDT	THAUXDT	–
	–	TC35365R	TC35365SS	DT400NK	DS468GK	DS200EK1	DS200EK2	DS16CP
600	TC35366	–	–	–	TGL6	–	–	–
	–	TC35366R	TC35366SS	DT600NK	DS468GK	DS200EK1	DS200EK2	DS16CP
800	TC35367	TC35367R ¹	TC35367SS	DT800NK				DS16CP
1200	TC35368	TC35368R	–	DT1200NK				–

¹Order same accessories for the “N” version.

Safety switch accessories

Type TDT accessories

		Product number									Auxiliary contact		
Voltage	Amps	NEMA type 1 indoor	NEMA type 3R outdoor	NEMA type 4X stainless steel	Neutral kit	Ground kit	Standard fuse class	R fuse adapter kit	T fuse adapter kit	J fuse adapter kit	1 Normally open 1 Normally closed	2 Normally open 2 Normally closed	Control pole
240	30	TDT3321	TDT3321R	–	DT100NK	DS100GK	H	DS12FK	–	–	DS200EK1	DS200EK2	DS16CP
	60	TDT3322	TDT3322R	–			H	DS16FK	–	–			
	100	TDT3323	TDT3323R	–			H	DS36FK	–	–			
	200	TDT3324	TDT3324R	–	DT200NK	DS200GK	H	DS46FK	–	–			
	400	TDT3325	TDT3325R	–	DT400NK	DS468GK	H	DS56FK	DS526TK ²	–			
	600	TDT3326	TDT3326R	–	DT600NK	DS468GK	J	–	DT626TK ²	–			
	800	TDT3327	TDT3327R	–	DT800NK		L	–	DT726TK ²	–			
	1200	TDT3328	TDT3328R	–	DT1200NK		L	–	move up	–			–
600	30	TDT3361	TDT3361R	TDT3361SS	DT100NK	DS100GK	H	DS16FK	–	–	DS200EK1	DS200EK2	DS16CP
	60	TDT3362	TDT3362R	TDT3361SS			H	DS26FK	–	–			
	100	TDT3363	TDT3363R	TDT3361SS			H	DS36FK	–	–			
	200	TDT3364	TDT3364R	TDT3361SS	DT200NK	DS200GK	H	DS46FK	–	move up			
	400	TDT3365	TDT3365R	TDT3361SS	DT400NK	DS468GK	T	–	–	DT400JK ³			
	600	TDT3366	TDT3366R	–	DT600NK	DS468GK	J	–	DT666TK ²	–			
	800	TDT3367	TDT3367R	–	DT800NK		L	–	DS766TK ²	–			
	1200	TDT3368	TDT3368R	–	DT1200NK		L	–	move up	–			–

²Kits come with 1 pole — must order (6) for 400 A 240 V switches and (3) for 600 A and 800 A 240 V or 600 V switches.

³Kits come with 6 poles.

Service equipment ratings and fuse class chart for double throw switches

Non-fusible switches

Fusible switches

Max. voltage	Amps	Product no.	Suitable for use as service equipment	Product no.	Suitable for use as service equipment	When used with a neutral, the following ratings also apply:	Std. fuse class	Optional fuse kit
120/240	100	TC10323R	Yes	–	–	–	–	–
	200	TC10324R						
240	30	TC35321	Yes ¹	TDT3321	with DT100NK	120/240 V AC	H	R - DS12FK 3P
		TC35321R		TDT3321R		125/250 V DC		
	60	TC35322	Yes ¹	TDT3322		4 Wire S/N		R - DS16FK 3P
		TC35322R		TDT3322R				
	100	TC35323	Yes ¹	TDT3323				R - DS36FK 3P
		TC35323R		TDT3323R				
	200	TC10424R	Yes ¹	–	with DT200NK	120/240 V AC	H	R - DS46FK 3P
		TC35324		TDT3324		125/250 V DC		J - move up
		TC35324R		TDT3324R		4-wire S/N		
	400	TC35325	Yes ¹	TDT3325	with DS800NK	120/240 V AC	H	R - DS56FK 3P
		TC35325R		TDT3325R		125/250 V DC		
	600	TC35326	No	TDT3326		4-wire S/N	J	T - DT626TK 1P
		TC35326R	with DS468GK	TDT3326R				
	800	TC35327	with DT800BK	TDT3327			L	T - DT726TK 1P
		TC35327N	Yes (neutral inc.)	–				
		TC35327R	with DT800BK	TDT3327R				
		TC35327RN	Yes (neutral inc.)	–				
	1200	TC35328	Yes	TDT3328	with DT1200NK	120/240 V AC	L	T - move up
		TC35328R		TDT3328R		4-wire S/N		
600	30	TC35361	with DT100NK or DT100BK	TDT3361	with DT100NK	277/480 V AC	H	R - DS16FK 3P
		TC35361R		TDT3361R		4-wire S/N		
		TC35361SS		TDT3361SS				
	60	TC35362	Yes ¹	TDT3362				R - DS26FK 3P
		TC35362R		TDT3362R				
		TC35362SS	with DT100NK or DT100BK	TDT3362SS				
	100	TC35363	Yes ¹	TDT3363				R - DS36FK 3P
		TC35363R		TDT3363R				
		TC35363SS	with DT100NK	TDT3363SS				
	200	TC35364	Yes ¹	TDT3324	with DT200NK	120/240 V AC	H	R - DS46FK 3P
		TC35364R		TDT3324R		125/250 V DC		J - move up
		TC35364SS	with DT200NK or DT200BK	–		4-wire S/N		
	400	TC35365	Yes	TDT3365	with DS800NK	277/480 V AC	T	J - DT400JK 6P
		TC35365R	with DT400NK or DT400BK	TDT3365R		4-wire S/N		
		TC35365SS		TDT3365SS				
	600	TC35366	No	TDT3366			J	T - DT666TK 1P
		TC35366R	with DT600NK or DT600BK	TDT3366R				
		TC35366SS	with DS468GK	–				
	800	TC35367	with DT800BK	TDT3367			L	T - DS766TK 1P
		TC35367N	Yes	–				
		TC35367R	with DT800BK	TDT3367R				
		TC35367RN	Yes	–				
		TC35367SS	with DS468GK	–				
	1200	TC35368	with DT1200NK ²	TDT3368	with DT1200NK		2	L
		TC35368R		TDT3368R				T - move up

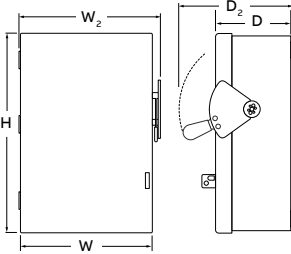
¹Not suitable for service entrance in Canada.

²120/208 V AC; 4-wire S/N up to 600 V AC; 3-wire with <150 V to ground 277/480 V AC; for continuous industrial process or where neutral is not solidly grounded or source intended for fire pump.

Safety switch enclosure dimensions

General duty, NEMA type 1

General duty, NEMA type 1
Approximate dimensions in inches

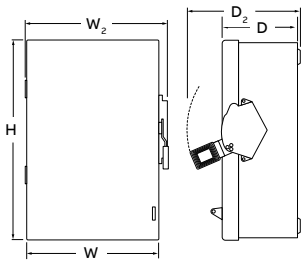
Diagram	Product number	Dimension H	Dimension W (box)	Dimension W ₂ (w/handle)	Dimension D (box)	Dimension D ₂ (w/handle)	Weight (lbs.)	Drawing #	KO figure number
	TG3221	10.3	6.4	6.9	3.3	6.3	5	10103091SH104	1
	TG3221VRED	10.3	6.4	6.9	3.3	6.3	5	10103091SH104	1
	TG3222	13.8	8.4	8.9	4.0	7.9	10	10103091SH104	15
	TG3223	21.3	9.4	10.6	4.9	9.9	16	10103091SH108	3
	TG3224	29.1	13.4	14.6	5.2	9.3	30	10103091SH108	4
	TG3224B	29.1	13.4	14.6	5.2	9.3	30	10103091SH108	4
	TG3225	49.4	21.6	22.8	8.7	14.6	102	10103091SH116	5
	TG3225B	49.4	21.6	22.8	8.7	14.6	102	10103091SH116	5
	TG3226	49.9	22.9	24.1	9.0	14.8	107	10103091SH116	6
	TG3325	49.4	21.6	22.8	8.7	14.6	107	10103091SH116	7
	TG3325B	49.4	21.6	22.8	8.7	14.6	107	10103091SH116	7
	TG3326	49.9	22.9	24.1	9.0	14.8	124	10103091SH116	6
	TG3326B	49.9	22.9	24.1	9.0	14.8	124	10103091SH116	6
	TG4321	10.3	6.4	6.9	3.3	6.3	5	10103091SH104	1
	TG4321VRED	10.3	6.4	6.9	3.3	6.3	5	10103091SH104	1
	TG4322	13.8	8.4	8.9	4.0	7.9	10	10103091SH104	15
	TG4322VRED	13.8	8.4	8.9	4.0	7.9	10	10103091SH104	15
	TG4323	21.3	9.4	10.6	4.9	9.9	17	10103091SH108	3
	TG4324	29.1	13.4	14.6	5.2	9.3	32	10103091SH108	4
	TG4324B	29.1	13.4	14.6	5.2	9.3	32	10103091SH108	4
	TG4325	49.4	21.6	22.8	8.7	14.6	111	10103091SH116	7
	TG4325B	49.4	21.6	22.8	8.7	14.6	111	10103091SH116	7
	TG4326	49.9	22.9	24.1	9.0	14.8	126	10103091SH116	6
	TG4326B	49.9	22.9	24.1	9.0	14.8	126	10103091SH116	6
	TGN3321	10.3	6.4	6.9	3.3	6.3	5	10103091SH104	1
	TGN3322	13.8	8.4	8.9	4.0	7.9	10	10103091SH104	15
	TGN3323	21.3	9.4	10.6	4.9	9.9	16	10103091SH108	3
	TGN3324	29.1	13.4	14.6	5.2	9.3	30	10103091SH108	4
	TGN3324B	29.1	13.4	14.6	5.2	9.3	30	10103091SH108	4
	TGN3325	49.4	21.6	22.8	8.7	14.6	118	10103091SH116	7
	TGN3325B	49.4	21.6	22.8	8.7	14.6	118	10103091SH116	7
	TGN3326	49.9	22.9	24.1	9.0	14.8	120	10103091SH116	6
	TGN3326B	49.9	22.9	24.1	9.0	14.8	120	10103091SH116	6

Safety switch enclosure dimensions

Heavy duty, NEMA Type 1

Heavy duty, NEMA Type 1

Approximate dimensions in inches

Diagram	Product number	Dimension H	Dimension W (box)	Dimension W2 (w/handle)	Dimension D (box)	Dimension D2 (w/handle)	Weight (lbs.)	Drawing #	KO figure number
	TH2261DC	12.6	8.3	9.5	4.0	7.6	11	10103091SH102	15
	TH2262DC	21.3	9.1	9.4	5.0	8.6	18	10103091SH102	3
	TH2263DC	22.3	9.3	10.1	4.8	9.8	19	10103091SH105	14
	TH3221	10.3	6.3	7.1	3.3	6.1	6	10103091SH102	1
	TH3222	17.6	9.4	10.1	5.0	9.0	15	10103091SH102	3
	TH3223	21.3	9.3	10.1	4.8	9.8	17	10103091SH105	3
	TH3224	31.5	13.3	14.1	5.1	10.5	33	10103091SH105	4
	TH3224B	31.5	13.3	14.1	5.1	10.5	33	10103091SH105	4
	TH3224C	31.5	13.3	14.1	5.1	10.5	33	10103091SH105	4
	TH3225	50.9	22.9	23.6	8.3	14.4	120	10103091SH112	6
	TH3225B	50.9	22.9	23.6	8.3	14.4	120	10103091SH112	6
	TH3225C	50.9	22.9	23.6	8.3	14.4	135	10103091SH112	6
	TH3226	50.9	22.9	23.6	8.3	14.4	134	10103091SH112	6
	TH3226B	50.9	22.9	23.6	8.3	14.4	134	10103091SH112	6
	TH3226C	50.9	22.9	23.6	8.3	14.4	134	10103091SH112	6
	TH3267C	61.5	40.8	44.0	11.9	18.5	500	10103091SH112	6
	TH3268C	76.6	46.6	45.8	12.9	18.9	480	10103091SH112	6
	TH3325	50.9	22.9	23.6	8.3	14.4	126	10103091SH112	6
	TH3325B	50.9	22.9	23.6	8.3	14.4	126	10103091SH112	6
	TH3326	50.9	22.9	23.6	8.3	14.4	138	10103091SH112	6
	TH3326B	50.9	22.9	23.6	8.3	14.4	138	10103091SH112	6
	TH3361	12.6	8.3	9.5	4.0	7.6	11	10103091SH102	15
	TH3362	21.3	9.1	9.4	5.0	8.6	18	10103091SH102	3
	TH3363	22.3	9.3	10.1	4.8	9.8	18	10103091SH105	14
	TH3364	31.5	13.3	14.1	5.1	10.5	33	10103091SH105	4
	TH3364B	31.5	13.3	14.1	5.1	10.5	34	10103091SH105	4
	TH3365	53.9	22.9	23.6	8.3	14.4	126	10103091SH112	6
	TH3365B	53.9	22.9	23.6	8.3	14.4	122	10103091SH112	6
	TH3366	53.9	22.9	23.6	8.3	14.4	139	10103091SH112	6
	TH3366B	53.9	22.9	23.6	8.3	14.4	139	10103091SH112	6
	TH4321	10.3	6.3	7.1	3.3	6.1	6	10103091SH102	1

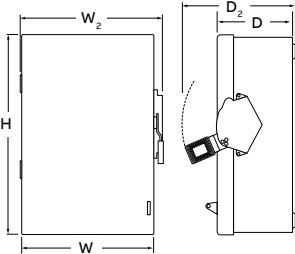
(table continued on next page)

Safety switch enclosure dimensions

Heavy duty, NEMA type 1

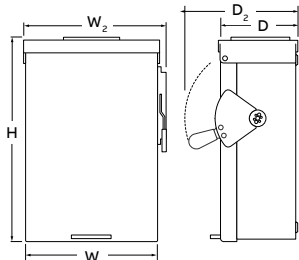
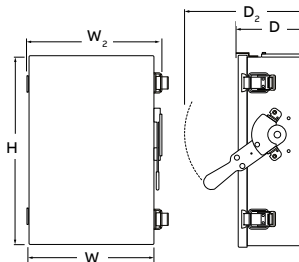
Heavy duty, NEMA type 1

Approximate dimensions in inches

Diagram	Product number	Dimension H	Dimension W (box)	Dimension W2 (w/handle)	Dimension D (box)	Dimension D2 (w/handle)	Weight (lbs.)	Drawing #	KO figure number
	TH4322	17.6	9.4	10.1	5.0	9.0	16	10103091SH102	3
	TH4323	21.3	9.3	10.1	4.8	9.8	17	10103091SH105	3
	TH4324	31.5	13.3	14.1	5.1	10.5	33	10103091SH105	4
	TH4324B	31.5	13.3	14.1	5.1	10.5	32	10103091SH105	4
	TH4324C	31.5	13.3	14.1	5.1	10.5	32	10103091SH105	4
	TH4325	50.9	22.9	23.6	8.3	14.4	128	10103091SH112	6
	TH4325B	50.9	22.9	23.6	8.3	14.4	128	10103091SH112	6
	TH4325C	50.9	22.9	23.6	8.3	14.4	128	10103091SH112	6
	TH4326	50.9	22.9	23.6	8.3	14.4	139	10103091SH112	6
	TH4326B	50.9	22.9	23.6	8.3	14.4	139	10103091SH112	6
	TH4326C	50.9	22.9	23.6	8.3	14.4	80	10103091SH112	6
	TH4361	12.6	8.3	9.5	4.0	7.6	11	10103091SH102	15
	TH4362	21.3	9.1	9.4	5.0	8.6	18	10103091SH102	3
	TH4363	22.3	9.3	10.1	4.8	9.8	18	10103091SH105	14
	TH4364	31.5	13.3	14.1	5.1	10.5	33	10103091SH105	4
	TH4364C	31.5	13.3	14.1	5.1	10.5	32	10103091SH105	4
	TH4365C	53.9	22.9	23.6	8.3	14.4	132	10103091SH112	6
	TH4366C	53.9	22.9	23.6	8.3	14.4	132	10103091SH112	6
	TH4367C	61.5	40.8	44.0	11.9	18.5	331	10103091SH118	No KO
	TH4368C	76.6	46.6	45.8	12.9	18.9	377	10103091SH118	No KO
	TH6621	14.4	18.7	19.9	5.9	12.3	33	10103091SH121	20
	TH6622	23.9	18.7	19.9	5.9	12.7	40	10103091SH121	20
	TH6623	23.9	18.7	19.8	5.8	10.9	45	10103091SH127	20
	TH6624	35.1	26.0	26.8	5.7	10.4	45	10103091SH127	20
	TH6661	14.4	18.7	19.9	5.9	12.3	33	10103091SH121	20
	TH6662	23.9	18.7	19.9	5.9	12.7	46	10103091SH121	20
	TH6663	23.9	18.7	19.8	5.8	10.9	46	10103091SH127	20
	TH6664	35.1	26.0	26.8	5.7	10.4	45	10103091SH127	20
	THN2261DC	10.3	8.3	9.3	4.0	7.7	9	10103091SH102	15
	THN2262DC	23.4	13.4	15.3	5.0	10.1	15	10103091SH102	3
	THN2263DC	17.6	9.3	10.1	4.8	9.8	23	10103091-SH105	3
	THN3321	10.3	6.3	7.1	3.3	6.1	6	10103091SH102	1
	THN3361	10.3	8.3	9.3	4.0	7.7	9	10103091SH102	15
	THN3361CL	10.3	8.3	9.3	4.0	7.7	9	10103091SH102	15
	THN3362	17.6	9.4	10.1	5.0	9.0	15	10103091SH102	3
	THN3362CL	17.6	9.4	10.1	5.0	9.0	15	10103091SH102	3
	THN3363	17.6	9.3	10.1	4.8	9.8	15	10103091SH105	3
	THN3363CL	17.6	9.3	10.1	4.8	9.8	15	10103091SH105	3
	THN3364	31.5	13.3	14.1	5.1	10.5	32	10103091SH105	4
	THN3364B	31.5	13.3	14.1	5.1	10.5	32	10103091SH105	4
	THN3364CL	31.5	13.3	14.1	5.1	10.5	33	10103091SH105	4
	THN3365	42.6	22.9	23.6	8.3	14.4	108	10103091SH112	6
	THN3365B	42.6	22.9	23.6	8.3	14.4	108	10103091SH112	6
	THN3366	42.6	22.9	23.6	8.3	14.4	109	10103091SH112	6
	THN3366B	42.6	22.9	23.6	8.3	14.4	109	10103091SH112	6
	THN3366CL	42.6	22.9	23.6	8.3	14.4	109	10103091SH112	6
	THN6661	14.4	18.7	19.9	5.9	12.3	33	10103091SH121	20
	THN6662	23.9	18.7	19.9	5.9	12.7	46	10103091SH121	20
	THN6663	23.9	18.7	19.8	5.8	10.9	46	10103091SH127	20
	THN6664	35.1	26.0	26.8	5.7	10.4	47	10103091SH127	20

General duty, NEMA type 3R

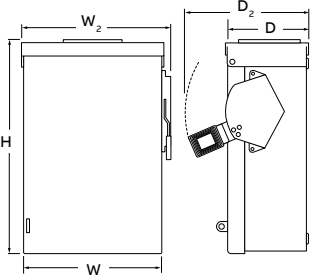
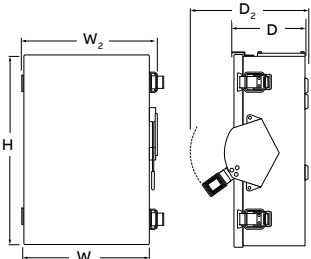
General duty, NEMA type 3R
Approximate dimensions in inches

Diagrams	Product number	Dimension H	Dimension W (box)	Dimension W2 (w/handle)	Dimension D (box)	Dimension D2 (w/handle)	Weight (lbs.)	Drawing #	KO figure number
 General duty NEMA type 3R	TG3221R	9.8	6.4	6.8	3.3	6.3	6	10103091SH103	8
	TG3222R	13.7	8.4	8.8	3.9	7.9	11	10103091SH103	19
	TG3223R	21.1	9.3	10.3	5.0	9.1	17	10103091SH107	10
	TG3224R	29.3	13.4	13.7	5.4	9.9	31	10103091SH183	11
	TG3225R	49.7	21.7	22.4	8.9	14.7	110	10103091SH141	12
	TG3226R	50.1	23.0	23.8	9.4	15.1	119	10103091SH141	13
	TG3325R	49.7	21.7	22.4	8.9	14.7	109	10103091SH141	12
	TG3326R	50.1	23.0	23.8	9.4	15.1	124	10103091SH141	13
 General duty NEMA type 3R 200-600 A side swing	TG4321R	9.8	6.4	6.8	3.3	6.3	6	10103091SH103	8
	TG4322R	13.7	8.4	8.8	3.9	7.9	11	10103091SH103	19
	TG4323R	21.1	9.3	10.3	5.0	9.1	17	10103091SH107	10
	TG4324R	29.3	13.4	13.7	5.4	9.9	32	10103091SH183	11
	TGN3321R	9.8	6.4	6.8	3.3	6.3	6	10103091SH103	8
	TGN3322R	13.7	8.4	8.8	3.9	7.9	10	10103091SH103	19
	TGN3323R	15.6	9.3	10.3	5.0	9.1	13	10103091SH107	10
	TGN3324R	29.3	13.4	13.7	5.4	9.9	31	10103091SH183	11

Safety switch enclosure dimensions

Heavy duty, NEMA type 3R

Heavy duty, NEMA type 3R
Approximate dimensions in inches

Diagrams	Product number	Dimension H	Dimension W (box)	Dimension W2 (w/handle)	Dimension D (box)	Dimension D2 (w/handle)	Weight (lbs.)	Drawing #	KO figure number
 Heavy duty NEMA type 3R	TH2261RDC	13.1	8.2	8.9	4.0	7.9	11	10103091SH101	19
	TH2262RDC	22.0	9.2	9.7	4.8	7.9	19	10103091SH101	10
	TH2263RDC	22.1	9.3	10.2	4.9	9.8	20	10103091SH106	10
	TH3221R	10.5	6.2	6.6	3.1	7.7	7	10103091SH101	8
	TH3222R	17.2	9.2	9.7	4.8	7.9	16	10103091SH101	10
	TH3223R	22.1	9.3	10.2	4.9	9.8	18	10103091SH106	10
	TH3224R	31.7	13.4	14.3	5.4	9.5	34	10103091SH182	11
	TH3224RC	31.7	13.4	14.3	5.4	9.5	34	10103091SH182	11
	TH3225R	49.5	23.0	24.1	8.5	13.9	128	10103091SH140	18
	TH3225RC	49.5	23.0	24.1	8.5	13.9	128	10103091SH140	18
 Heavy duty NEMA type 3R 200-600 A side swing	TH3226R	53.5	23.0	24.1	8.5	13.9	134	10103091SH140	18
	TH3226RC	53.5	23.0	24.1	8.5	13.9	134	10103091SH140	18
	TH3267RC	61.5	40.8	44.0	11.9	18.5	500	10103091SH118	No KO
	TH3268RC	76.6	46.6	45.8	12.9	18.9	490	10103091SH118	No KO
	TH3325R	49.5	23.0	24.1	8.5	13.9	127	10103091SH140	18
	TH3326R	53.5	23.0	24.1	8.5	13.9	139	10103091SH140	18
	TH3361R	13.1	8.2	8.9	4.0	7.9	11	10103091SH101	19
	TH3361RF	14.9	10.3	10.9	3.9	8.0	11	10103091SH133	No KO
	TH3361RF2	22.4	13.3	14.0	4.8	9.9	23	10103091SH134	No KO
	TH3362R	22.0	9.2	9.7	4.8	7.9	18	10103091SH101	10
	TH3362RF	22.4	13.3	14.0	4.8	9.9	18	10103091SH134	No KO
	TH3363R	22.1	9.3	10.2	4.9	9.8	19	10103091SH106	10
	TH3364R	31.7	13.4	14.3	5.4	9.5	33	10103091SH182	11
	TH3365R	53.5	23.0	24.1	8.5	13.9	132	10103091SH140	18
	TH3366R	53.5	23.0	24.1	8.5	13.9	136	10103091SH140	18
	TH4321R	10.5	6.2	6.6	3.1	7.7	7	10103091SH101	8
	TH4322R	17.2	9.2	9.7	4.8	7.9	16	10103091SH101	10
	TH4323R	22.1	9.3	10.2	4.9	9.8	18	10103091SH106	10
	TH4324R	31.7	13.4	14.3	5.4	9.5	34	10103091SH182	11
	TH4324RC	31.7	13.4	14.3	5.4	9.5	34	10103091SH182	11
	TH4325RC	49.5	23.0	24.1	8.5	13.9	125	10103091SH140	No KO
	TH4326RC	53.5	23.0	24.1	8.5	13.9	130	10103091SH140	No KO
	TH4361R	13.1	8.2	8.9	4.0	7.9	11	10103091SH101	19
	TH4362R	22.0	9.2	9.7	4.8	7.9	18	10103091SH101	10
	TH4363R	22.1	9.3	10.2	4.9	9.8	19	10103091SH106	10
	TH4364R	31.7	13.4	14.3	5.4	9.5	33	10103091SH182	11
	TH4364RC	31.7	13.4	14.3	5.4	9.5	32	10103091SH182	No KO
	TH4365RC	49.5	23.0	24.1	8.5	13.9	130	10103091SH140	No KO
	TH4366RC	53.5	23.0	24.1	8.5	13.9	132	10103091SH140	No KO
	TH4367RC	61.5	40.8	44.0	11.9	18.5	510	10103091SH118	No KO
	TH4368RC	76.6	46.6	45.8	12.9	18.9	750	10103091SH118	No KO
	THN2261RDC	13.1	8.2	8.9	4.0	7.9	11	10103091SH101	19
	THN2262RDC	17.2	9.2	9.7	4.8	7.9	16	10103091SH101	10
	THN2263RDC	17.3	9.3	10.2	4.9	9.8	16	10103091SH106	10
	THN3361R	13.1	8.2	8.9	4.0	7.9	11	10103091SH101	19
	THN3361RF	14.9	10.3	10.9	3.9	8.0	13	10103091SH133	19
	THN3361RF2	22.4	13.3	14.0	4.8	9.9	22	10103091SH134	17
	THN3362R	17.2	9.2	9.7	4.8	7.9	15	10103091SH101	10
	THN3362RF	22.4	13.3	14.0	4.8	9.9	22	10103091SH134	17
	THN3363R	17.3	9.3	10.2	4.9	9.8	15	10103091SH106	10
	THN3364R	31.7	13.4	14.3	5.4	9.5	33	10103091SH182	11
	THN3365R	49.5	23.0	24.1	8.5	13.9	122	10103091SH140	18
	THN3366R	53.5	23.0	24.1	8.5	13.9	130	10103091SH140	18

Safety switch enclosure dimensions

Heavy duty, NEMA type 1 and 3R, type 4/4X (stainless steel)

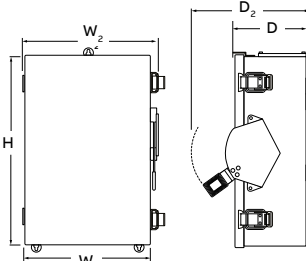
800–1200 A NEMA type 1 and 3R

Approximate dimensions in inches

Product number	Dimension H	Dimension W (box)	Dimension W2 (w/handle)	Dimension D (box)	Dimension D2 (w/handle)	Weight (lbs.)	Drawing #	KO figure number
TC36367	52.0	31.3	34.5	10.5	18.5	317	10103091SH118	No KO
TC36368	65.0	36.5	39.7	11.8	18.9	331	10103091SH118	
TC72267	61.5	40.8	44.0	11.9	18.5	377	10103091SH118	
TC72267R	61.5	40.8	44.0	11.9	18.5	480	10103091SH118	
TC72268	76.6	46.6	45.8	12.9	18.9	391	10103091SH118	
TC72268R	76.6	46.6	45.8	12.9	18.9	575	10103091SH118	
TC72367	61.5	40.8	44.0	11.9	18.5	377	10103091SH118	
TC72367R	61.5	40.8	44.0	11.9	18.5	480	10103091SH118	
TC72368	76.6	46.6	49.7	12.9	18.9	480	10103091SH118	
TC72368R	76.6	46.6	49.7	12.9	18.9	490	10103091SH118	

Heavy duty, NEMA type 4/4X (316 stainless)

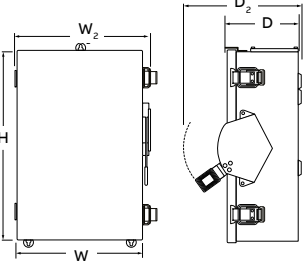
Approximate dimensions in inches

Diagram	Product number	Dimension H	Dimension W (box)	Dimension W2 (w/handle)	Dimension D (box)	Dimension D2 (w/handle)	Weight (lbs.)	Drawing #	KO figure number
	TH3361SS316	13.3	9.4	10.1	4.9	9.4	18	10103091SH109	No KO
	TH3361SS316-BA	13.3	9.4	10.1	4.9	9.4	18	10103091SH109	
	TH3362SS316	19.3	9.4	10.1	5.2	9.6	23	10103091SH109	
	TH3362SS316-BA	19.3	9.4	10.1	5.2	9.6	23	10103091SH109	
	TH3363SS316	25.4	13.4	14.3	5.2	9.6	36	10103091SH113	
	TH3363SS316-BA	25.4	13.4	14.3	5.2	9.6	36	10103091SH113	
	TH3364SS316	35.1	14.5	15.5	5.2	9.6	49	10103091SH113	
	TH3364SS316-BA	35.1	14.5	15.5	5.2	9.6	49	10103091SH113	
	THN3361SS316	11.3	9.4	10.1	4.9	9.4	16	10103091SH109	
	THN3361SS316-BA	11.3	9.4	10.1	4.9	9.4	9	10103091SH109	
	THN3362SS316	13.3	9.4	10.1	5.2	9.6	22	10103091SH109	
	THN3362SS316-BA	13.3	9.4	10.1	5.2	9.6	22	10103091SH109	
	THN3363SS316	25.4	13.4	14.3	5.2	9.6	36	10103091SH113	
	THN3363SS316-BA	25.4	13.4	14.3	5.2	9.6	36	10103091SH113	
	THN3364SS316	35.1	14.5	15.5	5.2	9.6	50	10103091SH113	
	THN3364SS316-BA	35.1	14.5	15.5	5.2	9.6	50	10103091SH113	
	THN3365SS316	59.5	24.6	25.6	8.4	13.8	239	10103091SH119	
	THN3366SS316	59.5	24.6	25.6	8.4	13.8	239	10103091SH119	

Safety switch enclosure dimensions

Heavy duty, NEMA type 4/4X water/dust-tight

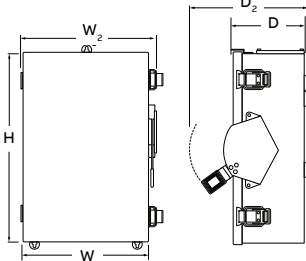
Heavy duty, NEMA type 4/4X water/dust-tight
Approximate dimensions in inches

Diagram	Product number	Dimension H	Dimension W (box)	Dimension W2 (w/handle)	Dimension D (box)	Dimension D2 (w/handle)	Weight (lbs.)	Drawing #	KO figure number
	TH2221MSS	11.2	7.4	8.1	4.7	9.8	14	10103091SH123	No KO
	TH2221SS	11.3	7.4	8.1	5.4	10.0	12	10103091SH110	
	TH2221SS-BA	11.3	7.4	8.1	4.9	9.4	12	10103091SH109	
	TH2221SSW	11.3	7.4	8.1	5.4	10.0	12	10103091SH110	
	TH2222MSS	19.3	9.4	14.1	5.0	10.1	20	10103091SH123	
	TH2222SS	19.3	9.4	10.1	5.2	9.6	21	10103091SH109	
	TH2222SS-BA	19.3	9.4	10.1	5.2	9.6	21	10103091SH109	
	TH2222SSW	19.3	9.4	10.1	5.2	9.6	21	10103091SH109	
	TH2223MSS	25.4	13.4	15.3	5.0	10.4	24	10103091SH128	
	TH2224MSS	35.1	14.4	16.3	5.0	10.4	25	10103091SH128	
	TH2261SSDC	13.3	9.4	10.1	4.9	9.4	18	10103091SH109	
	TH2262SSDC	19.3	9.4	10.1	5.2	9.6	19	10103091SH109	
	TH2263SSDC	25.4	13.4	14.3	5.2	9.6	30	10103091SH113	
	TH3221SS	11.3	7.4	8.1	4.9	9.4	12	10103091SH109	
	TH3221SS-BA	11.3	7.4	8.1	4.9	9.4	12	10103091SH109	
	TH3221SSW	11.3	7.4	8.1	4.9	9.4	12	10103091SH109	
	TH3222SS	19.3	9.4	10.1	5.2	9.6	15	10103091SH109	
	TH3222SS-BA	19.3	9.4	10.1	5.2	9.6	15	10103091SH109	
	TH3223SS	25.4	13.4	14.3	5.2	9.6	30	10103091SH113	
	TH3223SS-BA	25.4	13.4	14.3	5.2	9.6	30	10103091SH113	
	TH3223SSW	25.4	13.5	14.2	5.2	9.6	30	10103091SH113	
	TH3224SS	35.1	14.5	15.5	5.2	9.6	33	10103091SH113	
	TH3224SS-BA	35.1	14.5	15.5	5.2	9.6	33	10103091SH113	
	TH3224SSW	35.2	14.5	15.5	5.2	9.6	33	10103091SH113	
	TH3225SS	59.5	24.6	25.6	8.4	13.8	128	10103091SH119	
	TH3226SS	59.5	24.6	25.6	8.4	13.8	140	10103091SH119	
	TH3321MSS	11.2	7.4	8.1	4.7	9.8	14	10103091SH123	
	TH3321SS	11.3	7.4	8.1	4.9	9.4	12	10103091SH109	
	TH3321SS-BA	11.3	7.4	8.1	4.9	9.4	12	10103091SH109	
	TH3322MSS	19.3	9.4	14.1	5.0	10.1	23	10103091SH123	

Safety switch enclosure dimensions

Heavy duty, NEMA type 4/4X water/dust-tight

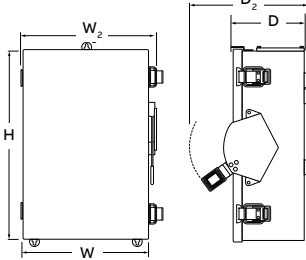
Heavy duty, NEMA type 4/4X water/dust-tight
Approximate dimensions in inches

Diagram	Product number	Dimension H	Dimension W (box)	Dimension W2 (w/handle)	Dimension D (box)	Dimension D2 (w/handle)	Weight (lbs.)	Drawing #	KO figure number
	TH3322SS	19.3	9.4	10.1	5.2	9.6	22	10103091SH109	No KO
	TH3322SS-BA	19.3	9.4	10.1	5.2	9.6	22	10103091SH109	
	TH3322SSW	19.3	9.4	10.1	5.2	9.6	22	10103091SH109	
	TH3323MSS	25.4	13.4	15.3	5.0	10.4	23	10103091SH128	
	TH3324MSS	35.1	14.4	16.3	5.0	10.4	27	10103091SH128	
	TH3325MSS	59.4	24.5	25.6	7.9	14.4	193	10103091SH130	
	TH3326MSS	59.4	24.5	25.6	7.9	14.4	200	10103091SH130	
	TH3361MSS	19.3	9.4	14.1	5.0	10.1	21	10103091SH123	
	TH3361SS	13.3	9.4	10.1	4.9	9.4	17	10103091SH109	
	TH3361SS-BA	13.3	9.4	10.1	4.9	9.4	17	10103091SH109	
	TH3361SSW	13.3	9.4	10.1	4.9	9.4	18	10103091SH109	
	TH3362MSS	19.3	9.4	14.1	5.0	10.1	23	10103091SH123	
	TH3362MSSW	19.3	9.4	14.1	5.0	10.1	23	10103091SH123	
	TH3362SS	19.3	9.4	10.1	5.2	9.6	23	10103091SH109	
	TH3362SS-BA	19.3	9.4	10.1	5.2	9.6	23	10103091SH109	
	TH3362SSW	19.3	9.4	10.1	5.2	9.6	22	10103091SH109	
	TH3363MSS	25.4	13.4	15.3	5.0	10.4	23	10103091SH128	
	TH3363SS	25.4	13.4	14.3	5.2	9.6	36	10103091SH113	
	TH3363SS-BA	25.4	13.4	14.3	5.2	9.6	36	10103091SH113	
	TH3363SSW	25.4	13.5	14.2	5.2	9.6	35	10103091SH113	
	TH3364MSS	35.1	14.4	16.3	5.0	10.4	45	10103091SH128	
	TH3364SS	35.1	14.5	15.5	5.2	9.6	49	10103091SH113	
	TH3364SS-BA	35.1	14.5	15.5	5.2	9.6	49	10103091SH113	
	TH3364SSW	35.2	14.5	15.5	5.2	9.6	33	10103091SH113	
	TH3365MSS	59.4	24.5	25.6	7.9	14.4	206	10103091SH130	
	TH3365SS	59.5	24.6	25.6	8.4	13.8	131	10103091SH119	
	TH3366MSS	59.4	24.5	25.6	7.9	14.4	211	10103091SH130	
	TH3366SS	59.5	24.6	25.6	8.4	13.8	139	10103091SH119	
	TH4321SS	11.3	7.4	8.1	4.9	9.4	12	10103091SH109	
	TH4321SS-BA	11.3	7.4	8.1	4.9	9.4	12	10103091SH109	
	TH4321SSW	11.3	7.4	8.1	4.9	9.4	12	10103091SH109	
	TH4322SS	19.3	9.4	10.1	5.2	9.6	23	10103091SH109	
	TH4322SS-BA	19.3	9.4	10.1	5.2	9.6	23	10103091SH109	
	TH4322SSW	19.3	9.4	10.1	5.2	9.6	23	10103091SH109	
	TH4323SS	25.4	13.4	14.3	5.2	9.6	36	10103091SH113	
	TH4323SS-BA	25.4	13.4	14.3	5.2	9.6	36	10103091SH113	
	TH4323SSW	25.4	13.5	14.2	5.2	9.6	36	10103091SH113	
	TH4324SS	35.1	14.5	15.5	5.2	9.6	47	10103091SH113	
	TH4324SS-BA	35.1	14.5	15.5	5.2	9.6	47	10103091SH113	
	TH4324SSW	35.2	14.5	15.5	5.2	9.6	47	10103091SH113	
	TH4325SS	59.5	24.6	25.6	8.4	13.8	135	10103091SH119	
	TH4326SS	59.5	24.6	25.6	8.4	13.8	139	10103091SH119	
	THN2261SSDC	13.3	9.4	10.1	5.4	10.0	16	10103091SH110	
	THN2262SSDC	19.3	9.4	10.1	5.7	10.2	16	10103091SH110	
	THN2263SSDC	25.4	13.4	14.3	5.2	9.6	30	10103091SH113	
	THN3361MSS	19.3	9.4	14.1	5.0	10.1	22	10103091SH123	

Safety switch enclosure dimensions

Heavy duty, NEMA type 4/4X water/dust-tight

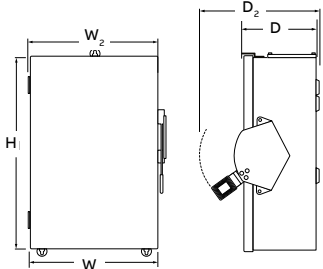
Heavy duty, NEMA type 4/4X water/dust-tight
Approximate dimensions in inches

Diagram	Product number	Dimension H	Dimension W (box)	Dimension W2 (w/handle)	Dimension D (box)	Dimension D2 (w/handle)	Weight (lbs.)	Drawing #	KO figure number
	THN3361MSSW	19.3	9.4	14.1	5.0	10.1	22	10103091SH123	No KO
	THN3361SS	11.3	9.4	10.1	4.9	9.4	16	10103091SH109	
	THN3361SS-BA	11.3	9.4	10.1	4.9	9.4	16	10103091SH109	
	THN3361SSCL	13.3	9.4	10.1	5.2	9.6	9	10103091SH109	
	THN3361SSW	11.3	9.4	10.1	4.9	9.4	19	10103091SH109	
	THN3362MSS	19.3	9.4	14.1	5.0	10.1	15	10103091SH123	
	THN3362SS	13.3	9.4	10.1	5.2	9.6	21	10103091SH109	
	THN3362SS-BA	13.3	9.4	10.1	5.2	9.6	21	10103091SH109	
	THN3362SSCL	13.3	9.4	10.1	5.2	9.6	21	10103091SH109	
	THN3362SSW	13.3	9.4	10.1	5.2	9.6	22	10103091SH109	
	THN3363MSS	25.4	13.4	15.3	5.0	10.4	20	10103091SH128	
	THN3363SS	25.4	13.4	14.3	5.2	9.6	36	10103091SH113	
	THN3363SS-BA	25.4	13.4	14.3	5.2	9.6	36	10103091SH113	
	THN3363SSW	25.4	13.5	14.2	5.2	9.6	36	10103091SH113	
	THN3364MSS	35.1	14.4	16.3	5.0	10.4	32	10103091SH128	
	THN3364SS	35.1	14.5	15.5	5.2	9.6	50	10103091SH113	
	THN3364SS-BA	35.1	14.5	15.5	5.2	9.6	50	10103091SH113	
	THN3364SSCL	35.1	14.5	15.5	5.2	9.6	32	10103091SH113	
	THN3364SSW	35.2	14.5	15.5	5.2	9.6	32	10103091SH113	
	THN3365MSS	47.9	24.5	25.6	7.9	14.4	110	10103091SH130	
	THN3365SS	48.0	24.6	25.6	8.4	13.7	139	10103091SH119	
	THN3366MSS	47.9	24.5	25.6	7.9	14.4	110	10103091SH130	
	THN3366SS	48.0	24.6	25.6	8.4	13.7	139	10103091SH119	

Safety switch enclosure dimensions

Heavy duty, NEMA type 5, 12 drip/dust-tight

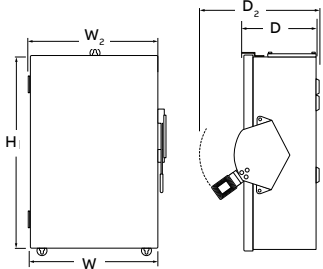
Heavy duty, NEMA type 5, 12 drip/dust-tight
Approximate dimensions in inches

Diagram	Product number	Dimension H	Dimension W (box)	Dimension W2 (w/handle)	Dimension D (box)	Dimension D2 (w/handle)	Weight (lbs.)	Drawing #	KO figure number
	TH2221J	11.3	7.4	8.1	5.4	10.0	12	10103091SH110	No KO
	TH2221JW	11.3	7.4	8.1	5.4	10.0	12	10103091SH110	
	TH2222J	19.3	9.4	10.1	5.7	10.2	21	10103091SH110	
	TH2222JW	19.3	9.4	10.1	5.7	10.2	21	10103091SH110	
	TH2261JDC	13.3	9.4	10.1	5.4	10.0	16	10103091SH109	
	TH2262JDC	19.3	9.4	10.1	5.7	10.2	22	10103091SH109	
	TH2263JDC	25.4	13.4	14.0	5.0	10.1	35	10103091SH113	
	TH3221J	11.3	7.4	8.1	5.4	10.0	12	10103091SH110	
	TH3221JW	11.3	7.4	8.1	5.4	10.0	12	10103091SH110	
	TH3222J	19.3	9.4	10.1	5.7	10.2	15	10103091SH110	
	TH3222JW	19.3	9.4	10.1	5.7	10.2	15	10103091SH110	
	TH3223J	25.4	13.4	14.0	5.0	10.1	37	10103091SH120	
	TH3223JW	25.4	13.4	14.0	5.0	10.1	37	10103091SH120	
	TH3224J	35.1	14.5	15.1	5.0	10.1	33	10103091SH120	
	TH3224JW	35.1	14.5	15.1	5.0	10.1	33	10103091SH120	
	TH3225J	59.5	24.5	25.6	7.9	14.5	120	10103091SH124	
	TH3226J	59.5	24.5	25.6	7.9	14.5	134	10103091SH124	
	TH3321J	11.3	7.4	8.1	5.4	10.0	12	10103091SH110	
	TH3321JW	11.3	7.4	8.1	5.4	10.0	12	10103091SH110	
	TH3322J	19.3	9.4	10.1	5.7	10.2	21	10103091SH110	
	TH3322JCH	19.3	9.4	9.8	5.7	10.3	28	10103091SH132	
	TH3322JW	19.3	9.4	10.1	5.7	10.2	21	10103091SH110	
	TH3361J	13.3	9.4	10.1	5.4	10.0	16	10103091SH110	
	TH3361JW	13.3	9.4	10.1	5.4	10.0	16	10103091SH110	
	TH3362J	19.3	9.4	10.1	5.7	10.2	22	10103091SH110	
	TH3362JCH	19.3	9.4	9.8	5.7	10.3	31	10103091SH132	
	TH3362JCHSS	19.3	9.4	9.8	5.7	10.3	32	10103091SH132	
	TH3362JW	19.3	9.4	10.1	5.7	10.2	22	10103091SH110	
	TH3363J	25.4	13.4	14.0	5.0	10.1	36	10103091SH120	
	TH3363JW	25.4	13.4	14.0	5.0	10.1	35	10103091SH120	
	TH3364J	35.1	14.5	15.1	5.0	10.1	49	10103091SH120	
	TH3364JW	35.1	14.5	15.1	5.0	10.1	33	10103091SH120	
	TH3365J	59.5	24.5	25.6	7.9	14.5	206	10103091SH124	
	TH3366J	59.5	24.5	25.6	7.9	14.5	215	10103091SH124	
	TH4321J	11.3	7.4	8.1	5.4	10.0	12	10103091SH110	
	TH4321JW	11.3	7.4	8.1	5.4	10.0	12	10103091SH110	
	TH4322J	19.3	9.4	10.1	5.7	10.2	22	10103091SH110	
	TH4322JW	19.3	9.4	10.1	5.7	10.2	22	10103091SH110	
	TH4323J	25.4	13.4	14.0	5.0	10.1	36	10103091SH120	
	TH4323JW	25.4	13.4	14.0	5.0	10.1	36	10103091SH120	
	TH4324J	35.1	14.5	15.1	5.0	10.1	52	10103091SH120	
	TH4324JW	35.1	14.5	15.1	5.0	10.1	52	10103091SH120	
	TH4325J	59.5	24.5	25.6	7.9	14.5	128	10103091SH124	
	TH4326J	59.5	24.5	25.6	7.9	14.5	139	10103091SH124	
	THN2261JDC	13.3	9.4	10.1	5.4	10.0	16	10103091SH110	
	THN2262JDC	19.3	9.4	10.1	5.7	10.2	15	10103091SH110	

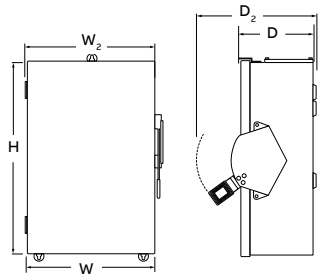
Safety switch enclosure dimensions

Heavy duty, NEMA type 5, 12 drip/dust-tight, type 3R, 5, 12

Heavy duty, NEMA type 5, 12 drip/dust-tight
Approximate dimensions in inches

Diagram	Product number	Dimension H	Dimension W (box)	Dimension W2 (w/handle)	Dimension D (box)	Dimension D2 (w/handle)	Weight (lbs.)	Drawing #	KO figure number
	THN2263JDC	25.4	13.4	14.0	5.0	10.1	34	10103091SH120	No KO
	THN3361J	13.3	9.4	10.1	5.4	10.0	16	10103091SH110	
	THN3361JCL	13.3	9.4	10.1	5.4	10.0	22	10103091SH110	
	THN3361JW	13.3	9.4	10.1	5.4	10.0	16	10103091SH110	
	THN3362J	19.3	9.4	10.1	5.7	10.2	21	10103091SH110	
	THN3362JCH	19.3	9.4	9.8	5.7	10.3	21	10103091SH132	
	THN3362JW	19.3	9.4	10.1	5.7	10.2	21	10103091SH110	
	THN3363J	25.4	13.4	14.0	5.0	10.1	34	10103091SH120	
	THN3363JCL	25.4	13.4	14.0	5.0	10.1	33	10103091SH120	
	THN3363JW	25.4	13.4	14.0	5.0	10.1	33	10103091SH120	
	THN3364J	35.1	14.5	15.1	5.0	10.1	47	10103091SH120	
	THN3364JW	35.1	14.5	15.1	5.0	10.1	47	10103091SH120	
	THN3365J	48.0	24.5	25.6	7.9	14.5	110	10103091SH124	
	THN3366J	48.0	24.5	25.6	7.9	14.5	125	10103091SH124	

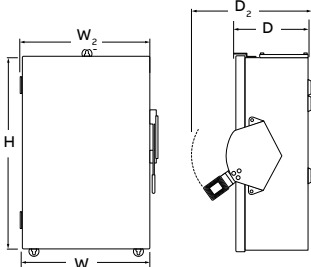
Heavy duty, NEMA type 3R, 5, 12
Approximate dimensions in inches

Diagram	Product number	Dimension H	Dimension W (box)	Dimension W2 (w/handle)	Dimension D (box)	Dimension D2 (w/handle)	Weight (lbs.)	Drawing #	KO figure number
	TH3361JR	13.3	9.4	10.1	5.4	10.0	17	10103091SH110	20
	TH3362JR	19.3	9.4	10.1	5.7	10.2	23	10103091SH132	
	TH3363JR	25.4	13.4	14.0	5.0	10.1	38	10103091SH120	
	TH3364JR	35.1	14.5	15.1	5.0	10.1	49	10103091SH120	
	TH3365JR	59.5	24.5	25.6	7.9	14.5	197	10103091SH124	
	TH3366JR	59.5	24.5	25.6	7.9	14.5	212	10103091SH124	

Safety switch enclosure dimensions

Heavy duty, NEMA type 12 drip/dust-tight

Heavy duty, NEMA type 12 drip/dust-tight
Approximate dimensions in inches

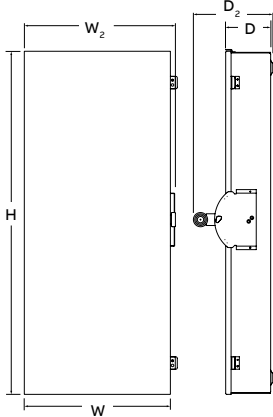
Diagram	Product number	Dimension H	Dimension W (box)	Dimension W2 (w/handle)	Dimension D (box)	Dimension D2 (w/handle)	Weight (lbs.)	Drawing #	KO figure number
	TH2221M	11.3	7.4	8.1	4.7	9.9	13	10103091SH123	No KO
	TH2222M	19.3	9.4	14.1	5.0	10.1	23	10103091SH123	
	TH2223M	23.4	13.4	15.3	5.0	10.1	24	10103091SH128	
	TH2224M	35.1	14.4	16.3	5.0	10.1	25	10103091SH128	
	TH2261MDC	19.3	9.4	14.1	5.0	10.1	20	10103091SH123	
	TH2262MDC	19.3	9.4	14.1	5.0	10.1	22	10103091SH123	
	TH2263MDC	23.4	13.4	15.3	5.0	10.1	35	10103091SH128	
	TH3321M	11.3	7.4	8.1	4.7	9.9	13	10103091SH123	
	TH3322M	19.3	9.4	14.1	5.0	10.1	21	10103091SH123	
	TH3322MW	19.3	9.4	14.1	5.0	10.1	21	10103091SH123	
	TH3323M	23.4	13.4	15.3	5.0	10.1	24	10103091SH128	
	TH3324M	35.1	14.4	16.3	5.0	10.1	30	10103091SH128	
	TH3325M	59.4	24.5	25.6	7.9	14.4	193	10103091SH130	
	TH3326M	59.4	24.5	25.6	7.9	14.4	200	10103091SH130	
	TH3361M	19.3	9.4	14.1	5.0	10.1	22	10103091SH123	
	TH3361MW	19.3	9.4	14.1	5.0	10.1	22	10103091SH123	
	TH3362M	19.3	9.4	14.1	5.0	10.1	22	10103091SH123	
	TH3363M	23.4	13.4	15.3	5.0	10.1	35	10103091SH128	
	TH3364M	35.1	14.4	16.3	5.0	10.1	45	10103091SH128	
	TH3365M	59.4	24.5	25.6	7.9	14.4	206	10103091SH130	
	TH3366M	59.4	24.5	25.6	7.9	14.4	211	10103091SH130	
	THN2261MDC	19.3	9.4	14.1	5.0	10.1	20	10103091SH123	
	THN2262MDC	19.3	9.4	14.1	5.0	10.1	20	10103091SH123	
	THN2263MDC	23.4	13.4	15.3	5.0	10.1	35	10103091SH128	
	THN3361M	19.3	9.4	14.1	5.0	10.1	21	10103091SH123	
	THN3362M	19.3	9.4	14.1	5.0	10.1	15	10103091SH123	
	THN3362MW	19.3	9.4	14.1	5.0	10.1	15	10103091SH123	
	THN3363M	23.4	13.4	15.3	5.0	10.1	20	10103091SH128	
	THN3364M	35.1	14.4	16.3	5.0	10.1	35	10103091SH128	
	THN3365M	47.9	24.5	25.6	7.9	14.4	110	10103091SH130	
	THN3366M	47.9	24.5	25.6	7.9	14.4	110	10103091SH130	

Safety switch enclosure dimensions

Double throw, NEMA type 1 TC, type 3R TC

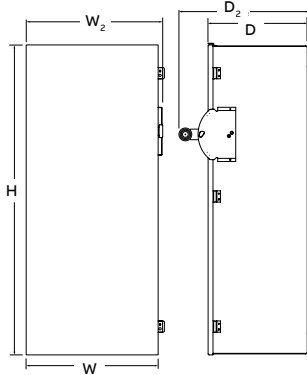
Double throw, NEMA type 1 TC

Approximate dimensions in inches

Diagram	Product number	Dimension H	Dimension W (box)	Dimension W2 (w/handle)	Dimension D (box)	Dimension D2 (w/handle)	Weight (lbs.)	Drawing #	KO figure number
	TC35321	15.8	10.4	12.0	5.2	8.7	14	10103091SH115	7
	TC35322	18.8	11.4	13.0	6.3	9.3	19	10103091SH115	7
	TC35323	22.4	14.5	16.0	7.9	14.5	34	10103091SH117	9
	TC35324	30.2	17.9	19.5	8.9	11.9	54	10103091SH117	10
	TC35325	34.3	24.5	26.7	10.3	17.1	83	10103091SH122	10
	TC35326	44.4	23.5	25.6	11.3	17.5	140	10103091SH122	12
	TC35327	63.8	27.0	27.8	8.9	14.1	175	10103091SH143	No KO
	TC35327N	63.8	27.0	27.8	8.9	14.1	175	10103091SH143	
	TC35328	78.1	42.6	43.8	20.5	29.6	471	10103091SH145	
	TC35361	25.0	12.0	12.8	6.0	11.2	44	10103091SH185	
	TC35362	18.8	11.4	13.0	6.3	9.3	21	10103091SH115	7
	TC35363	22.4	14.5	16.0	7.9	14.5	38	10103091SH117	9
	TC35364	30.2	17.9	19.5	8.9	11.9	62	10103091SH117	10
	TC35365	34.3	20.4	22.6	10.3	17.1	89	10103091SH122	10
	TC35366	44.4	23.5	25.6	11.3	17.5	140	10103091SH122	12
	TC35367	63.8	27.0	27.8	8.9	14.1	175	10103091SH143	No KO
	TC35367N	63.8	27.0	27.8	8.9	14.1	175	10103091SH143	
	TC35368	78.1	42.6	43.8	20.5	29.6	471	10103091SH145	

Double throw, NEMA type 3R TC

Approximate dimensions in inches

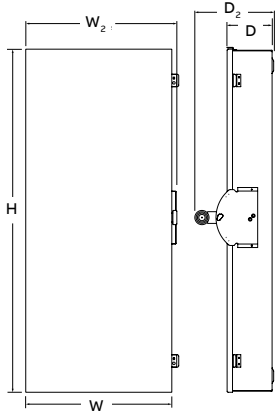
Diagram	Product number	Dimension H	Dimension W (box)	Dimension W2 (w/handle)	Dimension D (box)	Dimension D2 (w/handle)	Weight (lbs.)	Drawing #	KO figure number
	TC10323R	15.1	7.2	8.2	5.2	8.5	10	10103091SH131	15
	TC10324R	30.2	13.3	16.8	8.5	12.1	38	10103091SH131	13
	TC10424R	30.2	13.3	16.8	8.5	12.1	38	10103091SH131	13
	TC35321R	19.8	10.4	12.3	5.2	10.3	14	10103091SH126	No KO
	TC35322R	20.8	11.4	13.3	6.3	11.4	19	10103091SH126	
	TC35323R	22.9	14.4	16.6	7.9	14.5	35	10103091SH125	
	TC35324R	30.6	17.9	19.6	8.9	1.9	54	10103091SH125	
	TC35325R	34.8	24.4	27.3	10.3	17.3	98	10103091SH143	
	TC35326R	63.8	23.7	24.5	8.9	14.1	175	10103091SH143	
	TC35327R	63.8	27.0	27.8	8.9	14.1	175	10103091SH143	
	TC35327RN	63.8	27.0	27.8	8.9	14.1	175	10103091SH143	
	TC35328R	78.1	42.6	43.8	20.5	29.6	473	10103091SH145	
	TC35361R	25.0	12.0	12.8	6.0	11.2	44	10103091SH185	
	TC35362R	20.8	11.4	13.3	6.3	11.4	21	10103091SH126	
	TC35363R	22.9	14.4	16.6	7.9	14.5	39	10103091SH125	
	TC35364R	30.6	17.9	19.6	8.9	1.9	62	10103091SH125	
	TC35365R	54.3	22.7	23.5	7.3	12.5	140	10103091SH143	
	TC35366R	63.8	23.7	24.5	8.9	14.1	175	10103091SH143	
	TC35367R	63.8	27.0	27.8	8.9	14.1	175	10103091SH143	
	TC35367RN	63.8	27.0	27.8	8.9	14.1	175	10103091SH143	
	TC35368R	78.1	42.6	43.8	20.5	29.6	473	10103091SH145	

Safety switch enclosure dimensions

Double throw, NEMA type 1 TDT, type 3R TDT

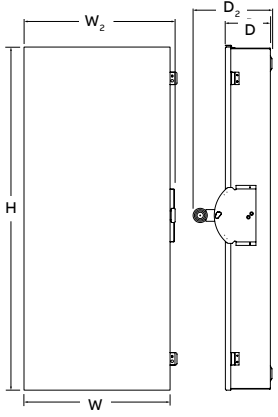
Double throw, NEMA type 1 TDT

Approximate dimensions in inches

Diagram	Product number	Dimension H	Dimension W (box)	Dimension W2 (w/handle)	Dimension D (box)	Dimension D2 (w/handle)	Weight (lbs.)	Drawing #	KO figure number
	TDT3321	37.0	12.0	12.8	8.3	11.2	47	10103091SH137	No KO
	TDT3322	37.0	12.0	12.8	8.3	11.2	43	10103091SH137	
	TDT3323	37.0	12.0	12.8	8.3	11.2	48	10103091SH137	
	TDT3324	51.4	19.2	19.9	6.1	11.3	159	10103091SH138	
	TDT3325	74.7	25.3	26.2	8.9	14.1	163	10103091SH139	
	TDT3326	86.1	27.4	28.3	8.9	14.1	341	10103091SH139	
	TDT3327	58.9	28.1	29.3	20.5	25.6	275	10103091SH147	
	TDT3328	78.1	42.6	43.8	20.5	29.6	501	10103091SH146	
	TDT3361	37.0	12.0	12.8	8.3	11.2	42	10103091SH137	
	TDT3362	37.0	12.0	12.8	8.3	11.2	43	10103091SH137	
	TDT3363	37.0	12.0	12.8	8.3	11.2	62	10103091SH137	
	TDT3364	51.4	27.6	28.6	8.8	16.2	102	10103091SH138	
	TDT3365	74.7	25.3	26.2	8.9	14.1	274	10103091SH139	
	TDT3366	58.9	28.1	29.3	20.5	25.6	278	10103091SH144	
	TDT3367	58.9	28.1	29.3	20.5	25.6	278	10103091SH145	
	TDT3368	78.1	42.6	43.8	20.5	29.6	501	10103091SH146	

Double throw, NEMA type 3R TDT

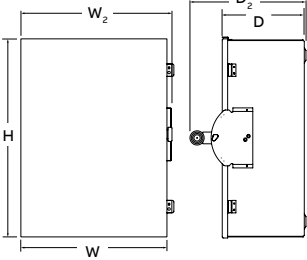
Approximate dimensions in inches

Diagram	Product number	Dimension H	Dimension W (box)	Dimension W2 (w/handle)	Dimension D (box)	Dimension D2 (w/handle)	Weight (lbs.)	Drawing #	KO figure number
	TDT3321R	37.0	12.0	12.8	8.3	11.2	47	10103091SH137	No KO
	TDT3322R	37.0	12.0	12.8	8.3	11.2	47	10103091SH137	
	TDT3323R	37.0	12.0	12.8	8.3	11.2	62	10103091SH137	
	TDT3324R	51.4	27.6	28.6	8.8	16.2	159	10103091SH138	
	TDT3325R	74.8	26.3	24.5	8.8	14.1	230	10103091SH143	
	TDT3326R	58.9	28.1	29.3	20.5	25.6	320	10103091SH144	
	TDT3327R	58.9	28.1	29.3	20.5	25.6	276	10103091SH147	
	TDT3328R	78.1	42.6	43.8	20.5	29.6	503	10103091SH146	
	TDT3361R	37.0	12.0	12.8	6.0	11.9	44	10103091SH185	
	TDT3362R	37.0	12.0	12.8	6.0	11.9	44	10103091SH185	
	TDT3363R	37.0	12.0	12.8	8.3	11.2	49	10103091SH137	
	TDT3364R	51.4	27.6	28.6	8.8	16.2	160	10103091SH138	
	TDT3365R	74.8	26.3	24.5	8.8	14.1	230	10103091SH143	
	TDT3366R	58.9	28.1	29.3	20.5	25.6	278	10103091SH144	
	TDT3367R	58.9	28.1	29.3	20.5	25.6	278	10103091SH147	
	TDT3368R	78.1	42.6	43.8	20.5	29.6	503	10103091SH146	

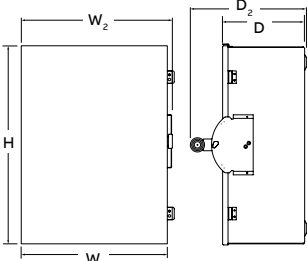
Safety switch enclosure dimensions

Double throw, NEMA type 4X (304 stainless) TC, TDT

Double throw, NEMA type 4X (304 stainless) TC
Approximate dimensions in inches

Diagram	Product number	Dimension H	Dimension W (box)	Dimension W2 (w/handle)	Dimension D (box)	Dimension D2 (w/handle)	Weight (lbs.)	Drawing #	KO figure number
	TC35361SS	25.7	11.9	12.7	5.5	11.4	60	10103091SH150	No KO
	TC35362SS	25.7	11.9	12.7	5.5	11.4	60	10103091SH150	
	TC35363SS	25.7	11.9	12.7	5.5	11.4	60	10103091SH150	
	TC35364SS	39.8	19.6	20.3	6.5	11.7	105	10103091SH186	
	TC35365SS	37.9	19.6	20.3	6.5	14.1	185	10103091SH149	
	TC35366SS	65.7	24.1	25.3	9.0	14.1	195	10103091SH188	
	TC35367SS	65.7	27.4	28.4	9.0	14.1	230	10103091SH187	

Double throw, NEMA type 4X (304 stainless) TDT
Approximate dimensions in inches

Diagram	Product number	Dimension H	Dimension W (box)	Dimension W2 (w/handle)	Dimension D (box)	Dimension D2 (w/handle)	Weight (lbs.)	Drawing #	KO figure number
	TDT3361SS	38.8	12.0	12.8	5.5	11.4	45	10103091SH148	No KO
	TDT3362SS	38.8	12.0	12.8	5.5	11.4	45	10103091SH148	
	TDT3363SS	38.8	12.0	12.8	5.5	11.4	45	10103091SH148	
	TDT3364SS	53.3	19.6	20.3	6.5	14.1	100	10103091SH142	
	TDT3365SS	37.9	19.6	20.3	6.5	14.1	260	10103091SH149	

Safety switch knockouts

Dimensions—Knockouts

Symbol	A	B	C	D	E	F	G	H	J	K	L	M	N
Conduit size (inches)	$\frac{9}{32}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{1}{2}$	$\frac{3}{4}$	$\frac{3}{4}$	1	1	2	2	$2\frac{1}{2}$
	—	—	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	$\frac{3}{4}$	1	1	$1\frac{1}{4}$	$1\frac{1}{2}$	$2\frac{1}{2}$	$2\frac{1}{2}$	3
	—	—	—	1	1	1	—	$1\frac{1}{4}$	$1\frac{1}{2}$	2	3	3	—
	—	—	—	—	$1\frac{1}{4}$	$1\frac{1}{2}$	—	$1\frac{1}{2}$	2	$2\frac{1}{2}$	—	$3\frac{1}{2}$	—

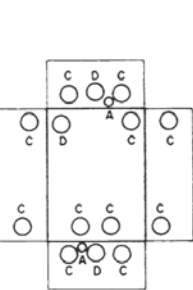


Figure 1

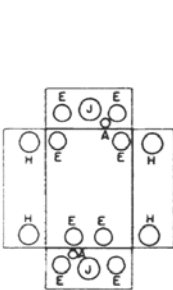


Figure 2

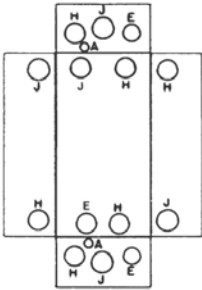


Figure 3

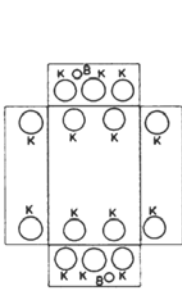


Figure 4

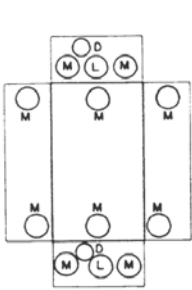


Figure 5

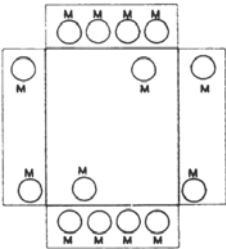


Figure 6

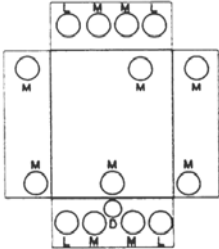


Figure 7

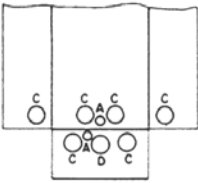


Figure 8

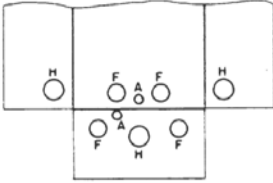


Figure 9

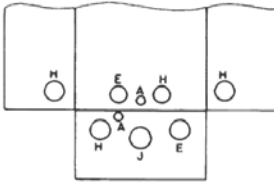


Figure 10

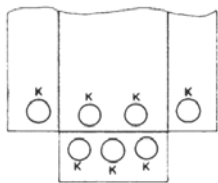


Figure 11

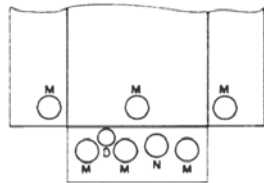


Figure 12

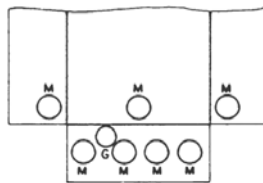


Figure 13

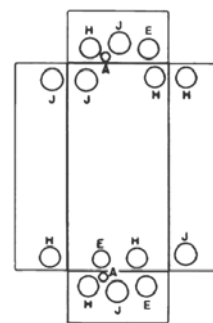


Figure 14

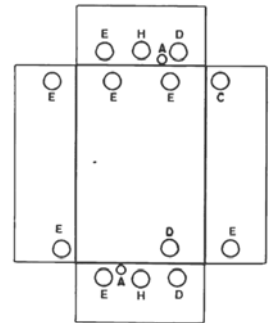


Figure 15

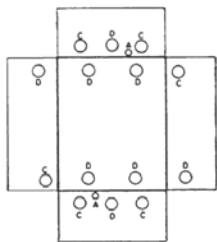


Figure 16

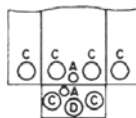


Figure 17

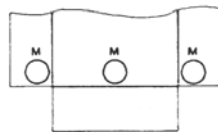


Figure 18

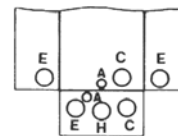


Figure 19

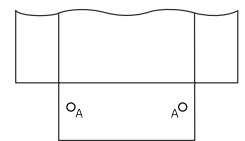


Figure 20

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