

# Overview

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01 600 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
- 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)	
<b>Fusible</b>				
600 V AC	30–1200	R	100,000	1
		J	100,000	3R
		T	100,000	4X
		L	100,000	
<b>Non-fusible: Fuse withstand ratings apply to non-fused switches when protected by an upstream fuse as listed</b>				
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	

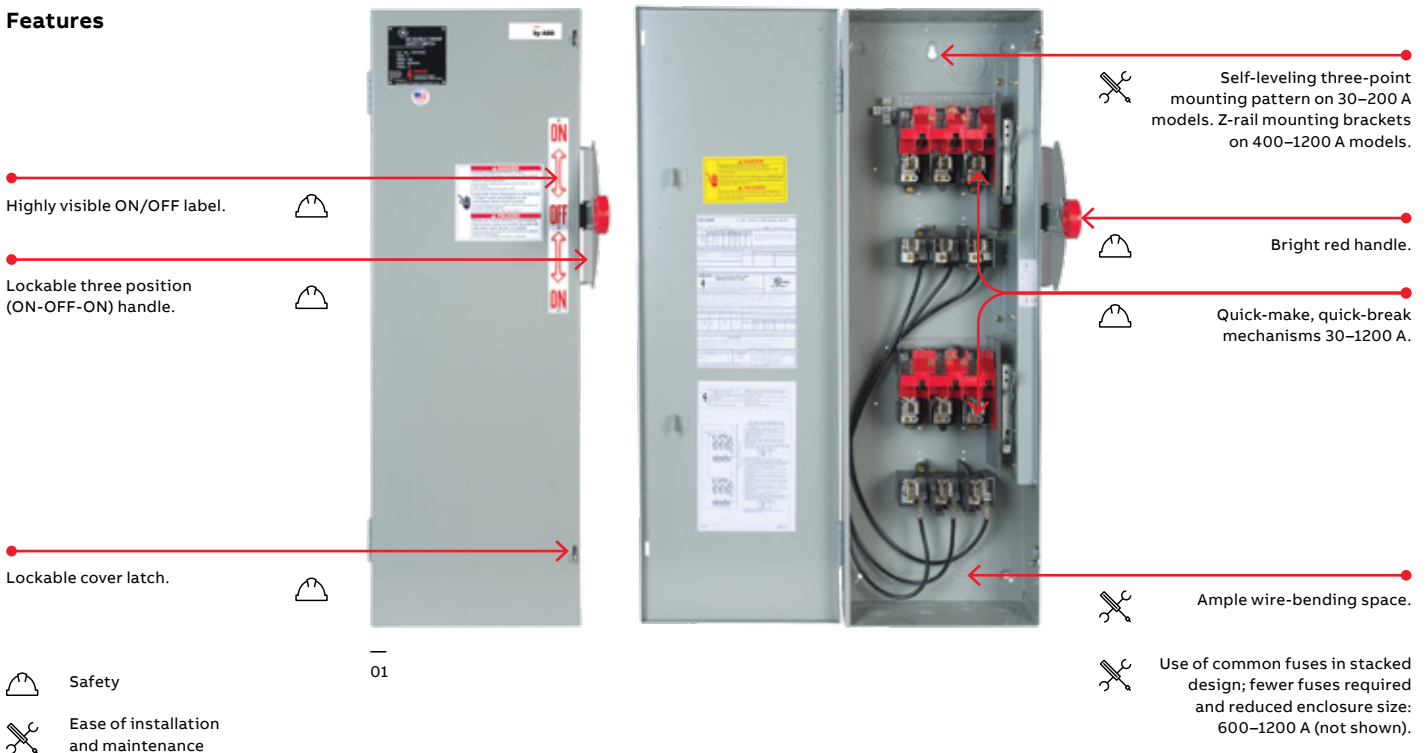
## Lug wire sizes line and load terminals

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 <sup>6</sup>
600	(1) 2–(1) 600 or (1) 1/0–(1) 750 <sup>7</sup>
800	(3) 250–(3) 500
1200	(4) 1/0–(4) 750

<sup>6</sup>Single barrel lug that accepts one or two cables per phase as detailed above.

<sup>7</sup>Double barrel lug that accepts two cables per phase as detailed above.

## Features



## 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		
<b>Fusible 3-pole 3-wire 240 V</b>																		
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 <sup>1</sup>	TDT3323R <sup>1</sup>	-	-	7.5	15	-	-	15	30	-	-	-	-	-	-	20	-
200	TDT3324 <sup>1</sup>	TDT3324R <sup>1</sup>	-	-	15	15	-	-	25	60	-	-	-	-	-	-	40	40
400	TDT3325 <sup>1</sup>	TDT3325R <sup>1</sup>	-	-	-	-	-	-	50	125	-	-	-	-	-	-	50	-
600	TDT3326 <sup>3,4</sup>	TDT3326R <sup>3,4</sup>	-	-	-	-	-	-	50	125	100	250	125	350	-	-	50	50
800	TDT3327 <sup>3,4</sup>	TDT3327R <sup>3,4</sup>	-	-	-	-	-	-	100	125	-	-	-	-	-	-	-	-
1200	TDT3328 <sup>4</sup>	TDT3328R <sup>4</sup>	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-

Amperage rating	Product number			Horsepower 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		
<b>Fusible 3-pole 3-wire 600 V</b>													
30	TDT3361	TDT3361R	TDT3361SS	0.5	2	-	-	3	7.5	3	10		
60	TDT3362 <sup>1</sup>	TDT3362R <sup>1</sup>	TDT3362SS <sup>1</sup>	1.5	3	3	10	5	20	10	25		
100	TDT3363 <sup>1</sup>	TDT3363R <sup>1</sup>	TDT3363SS <sup>1</sup>	-	-	7.5	15	10	30	15	40		
200	TDT3364 <sup>1</sup>	TDT3364R <sup>1</sup>	TDT3364SS <sup>1</sup>	-	-	15	15	25	50	30	50		
400	TDT3365 <sup>2</sup>	TDT3365R <sup>2</sup>	TDT3365SS <sup>2</sup>	-	-	-	-	-	-	-	-		
600	TDT3366 <sup>3,4</sup>	TDT3366R <sup>3,4</sup>	-	-	-	-	-	-	-	-	-		
800	TDT3367 <sup>3,4</sup>	TDT3367R <sup>3,4</sup>	-	-	-	-	-	-	-	-	-		
1200	TDT3368 <sup>4,5</sup>	TDT3368R <sup>4,5</sup>	-	-	-	-	-	-	-	-	-		

<sup>1</sup>Class J fuse option available when load base is moved.

<sup>2</sup>400 amp at 600 V switches available with Class T fuse provision only.

<sup>3</sup>Field convertible to Class T.

<sup>4</sup>Stacked design requiring only one set of fuses.

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

Amperage rating	Product number			Three-phase								DC HP rating		
	NEMA type 1 indoor	NEMA type 3R outdoor stainless steel	NEMA type 4x stainless steel	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
<b>Fusible 3-pole 3-wire 600 V</b>														
30	TDT3361	TDT3361R	TDT3361SS	1.5	3	3	7.5	5	15	7.5	20	3	-	5
60	TDT3362 <sup>1</sup>	TDT3362R <sup>1</sup>	TDT3362SS <sup>1</sup>	3	7.5	7.5	15	15	30	15	50	5	-	10
100	TDT3363 <sup>1</sup>	TDT3363R <sup>1</sup>	TDT3363SS <sup>1</sup>	-	-	15	30	25	60	30	75	-	-	20
200	TDT3364 <sup>1</sup>	TDT3364R <sup>1</sup>	TDT3364SS <sup>1</sup>	-	-	25	25	50	125	60	150	-	40	40
400	TDT3365 <sup>2</sup>	TDT3365R <sup>2</sup>	TDT3365SS <sup>2</sup>	-	-	50	125	100	250	125	350	-	50	50
600	TDT3366 <sup>3,4</sup>	TDT3366R <sup>3,4</sup>	-	-	-	50	125	100	250	125	350	-	50	-
800	TDT3367 <sup>3,4</sup>	TDT3367R <sup>3,4</sup>	-	-	-	100	125	200	250	250	350	-	-	-
1200	TDT3368 <sup>4,5</sup>	TDT3368R <sup>4,5</sup>	-	-	-	-	-	-	-	-	-	-	-	-

<sup>1</sup>Class J fuse option available when load base is moved.

<sup>2</sup>400 amp at 600 V switches available with Class T fuse provision only.

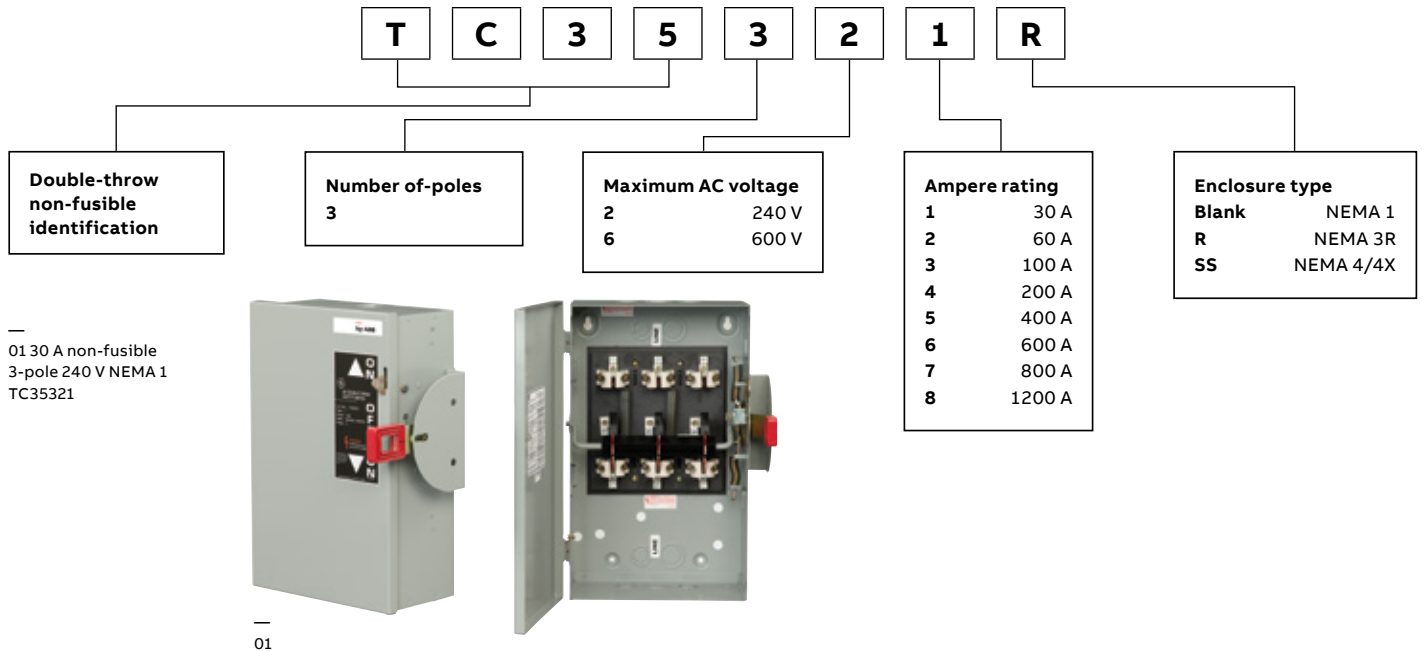
<sup>3</sup>Field convertible to Class T.

<sup>4</sup>Stacked design requiring only one set of fuses.

<sup>5</sup>Suitable 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 AWG/kcmil
	NEMA type 1 indoor	NEMA type 3R outdoor	NEMA type 4X stainless steel	Three-phase			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 <sup>2</sup>	-	-	50	-	-	-	-	(2) 3/0-350 (Cu) or 2-600 (Cu)
800	TC35327 <sup>4</sup>	TC35327R <sup>4</sup>	-	125	250	350	50	-	(2) 250 - (2) 500 (Cu/Al)
1200	TC35328	TC35328R	-	-	-	-	-	-	(3) 250 - (3) 500 (Cu/Al) (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 <sup>1,2,3</sup>	-	-	-	-	-	-	-	(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 <sup>1,2</sup>	-	-	-	-	-	-	-	(2) 3/0-350 (Cu) or 2-600 (Cu)
	-	TC35366R	TC35366SS	125	250	350	-	-	(2) 250 - (2) 500 (Cu/Al)
800	TC35367 <sup>4</sup>	TC35367R <sup>4</sup>	TC35367SS	125	250	350	-	-	(3) 250 - (3) 500 (Cu/Al)
1200	TC35368 <sup>6</sup>	TC35368R <sup>6</sup>	-	-	-	-	-	-	(4) 1/0 - (4) 750 (Cu/Al)

<sup>1</sup>Not UL Listed.

<sup>2</sup>Not suitable for use as service equipment per NEC Article 702

<sup>3</sup>No provision for auxiliary contact kit

<sup>4</sup>Available with factory-installed neutral. Add N suffix. For example: TC35327N.

<sup>5</sup>Single-barrel lug that accepts one or two cables per phase.

<sup>6</sup>Suitable for use as service entrance equipment except on 1200 A solidly grounded wye systems per NEC 230.95

## 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	
	TC35327N	63.8	27.0	27.8	8.9	14.1	175	10103091SH143	No KO
	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	
	TC35367N	63.8	27.0	27.8	8.9	14.1	175	10103091SH143	No KO
	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	
	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	No KO
	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 knockouts

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Dimensions—Knockouts

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

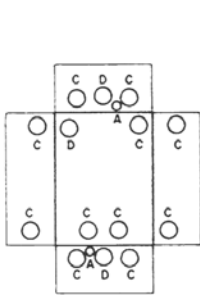


Figure 1

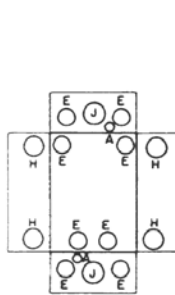


Figure 2

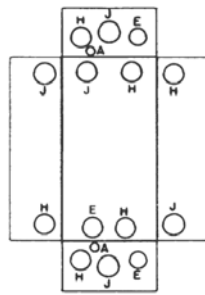


Figure 3

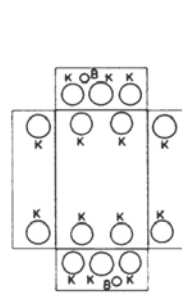


Figure 4

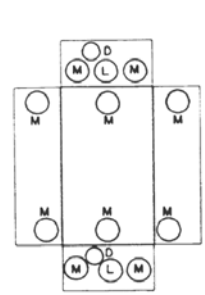


Figure 5

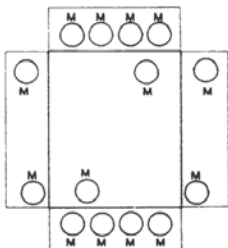


Figure 6

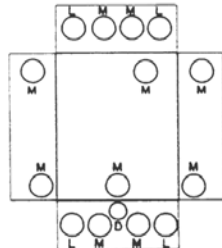


Figure 7

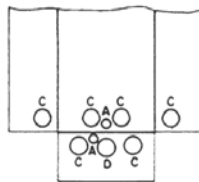


Figure 8

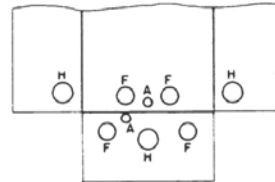


Figure 9

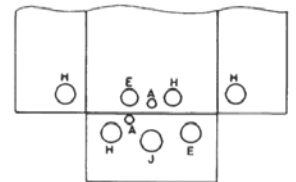


Figure 10

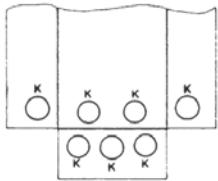


Figure 11

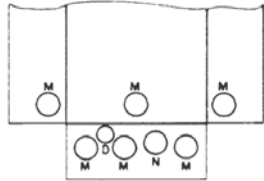


Figure 12

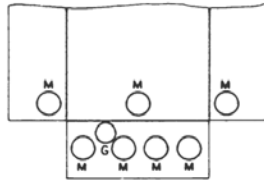


Figure 13

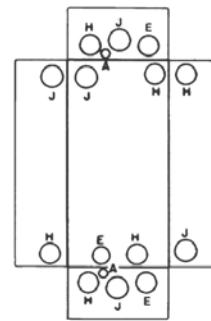


Figure 14

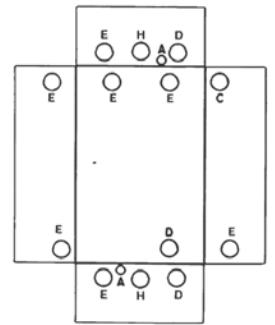


Figure 15

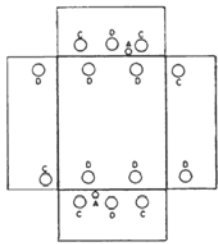


Figure 16

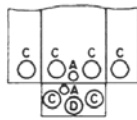


Figure 17

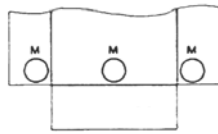


Figure 18

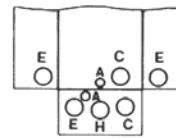


Figure 19

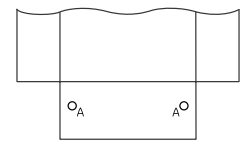


Figure 20