

# Overview

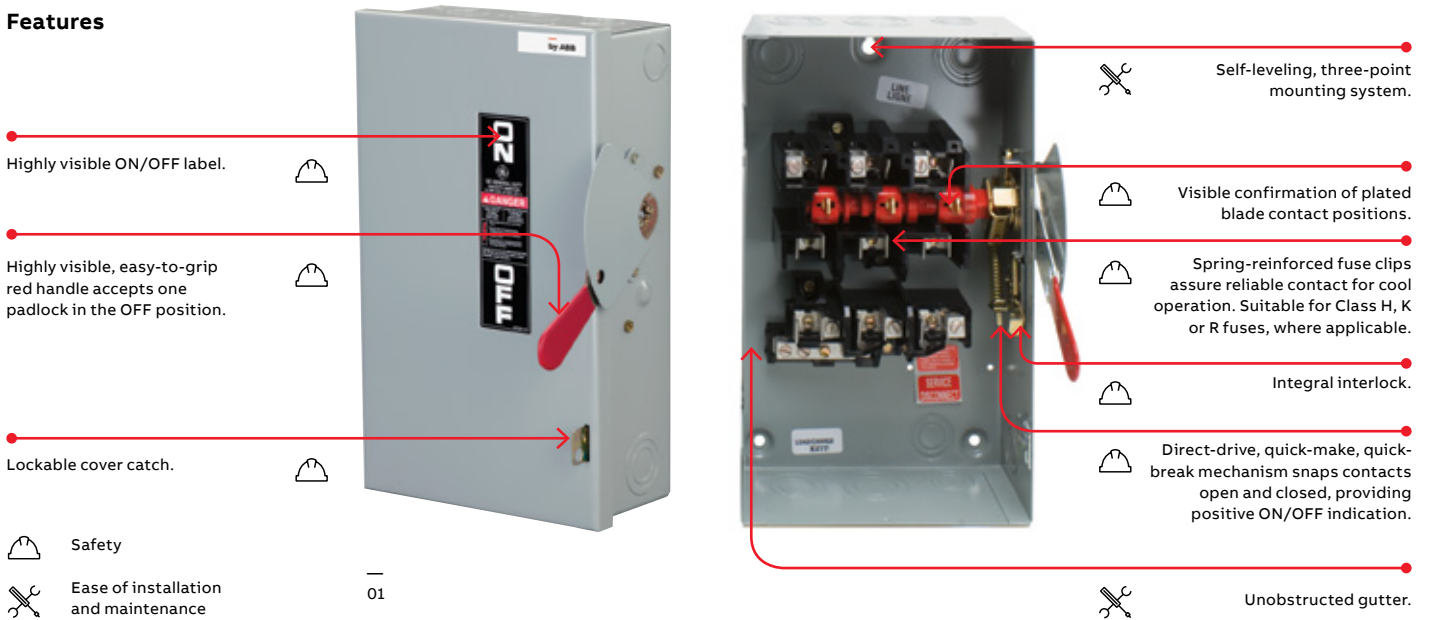
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01 60 A fusible 3-pole,  
240 V NEMA 1  
TG4322

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 2017 NEC for service equipment.

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
- Seismic certified

## Features



## General duty safety switch short circuit ratings

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

<sup>1</sup>Class 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) 1/0–600 or (2) 1/0–250	(1) 1/0–600 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		
	Amperage rating	NEMA type 1 indoor	NEMA type 3R outdoor	Single-phase 240 V AC		250 V DC		
				Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse
<b>Fusible 2-pole 3-wire 240 V 50/60 Hz</b>								
	30	TG3221	TG3221R	1.5	3	–	–	5
	60	TG3222	TG3222R	3	10	–	–	10
	100	TG3223	TG3223R	7.5	15	–	–	20
	200	TG3224 <sup>1</sup>	TG3224R	15	15	–	–	–
	400	TG3225 <sup>1,2</sup>	TG3225R <sup>2</sup>	–	–	–	–	–
600	TG3226 <sup>1,2</sup>	TG3226R <sup>2</sup>	–	–	–	–	–	
<b>Fusible 3-pole 4-wire 240 V 50/60 Hz</b>								
	30	TG4321	TG4321R	1.5	3	3	7.5	5
	60	TG4322	TG4322R	3	10	7.5	15	10
	100	TG4323	TG4323R	7.5	15	15	30	20
	200	TG4324 <sup>1</sup>	TG4324R	15	15	25	50	–
	400	TG4325 <sup>1,2</sup>	<sup>4</sup>	–	–	50	100	–
600	TG4326 <sup>1,2</sup>	<sup>4</sup>	–	–	75	100	–	

	Product number			Horsepower rating		DC HP		
	Amperage rating	NEMA type 1 indoor	NEMA type 3R outdoor	Single-phase 240 V AC		250 V DC		
				Standard fuse	Time delay	Standard fuse	Time delay	Standard fuse
<b>Fusible 2-pole 3-wire 240 V 50/60 Hz (painted red)</b>								
	30	TG3221VRED	–	1.5	3	–	–	5
<b>Fusible 3-pole 4-wire 240 V 50/60 Hz (painted red)</b>								
	30	TG4321VRED	–	1.5	3	3	7.5	10
	60	TG4322VRED	–	3	10	7.5	15	20

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

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

<sup>2</sup>Single make/single break mechanism

<sup>3</sup>Not suitable for use as service equipment. Solid neutral not available.

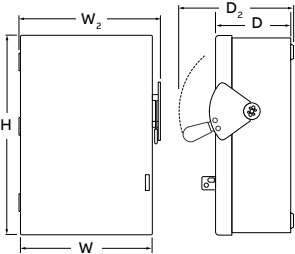
<sup>4</sup>NEMA type 3R fusible or non-fusible versions, 400–600 ampere rating, available in heavy duty, type TH models. See pages 9–13.

## Safety switch enclosure dimensions

### General duty, NEMA type 1

#### General duty, NEMA type 1

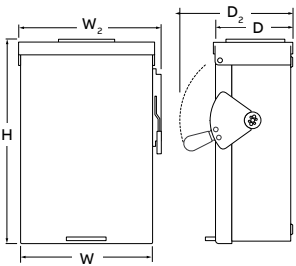
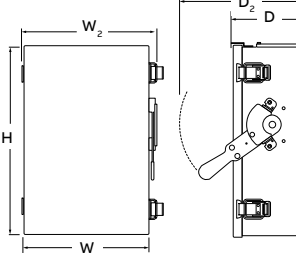
Approximate dimensions in inches

Diagram	Product number	Dimension H	Dimension W (box)	Dimension W <sub>2</sub> (w/handle)	Dimension D (box)	Dimension D <sub>2</sub> (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

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
 <p>General duty NEMA type 3R</p>	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
	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
 <p>General duty NEMA type 3R 200-600 A side swing</p>	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 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	$2\frac{1}{2}$	—	$3\frac{1}{2}$	—

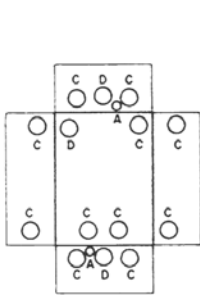


Figure 1

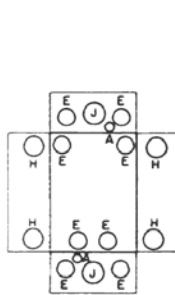


Figure 2

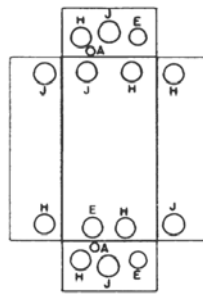


Figure 3

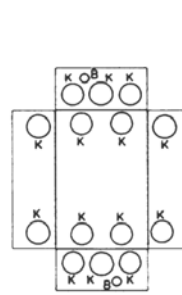


Figure 4

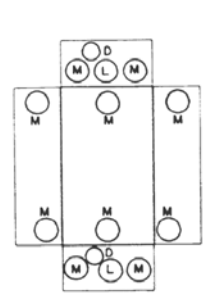


Figure 5

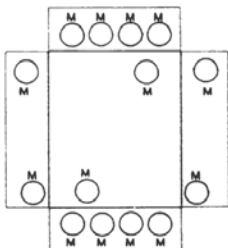


Figure 6

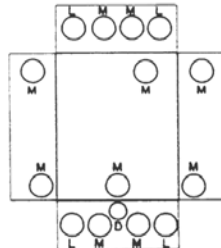


Figure 7

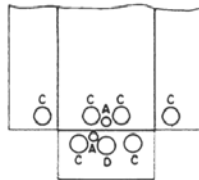


Figure 8

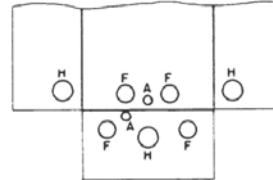


Figure 9

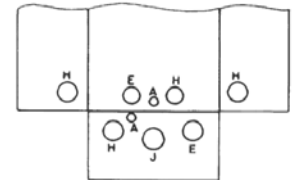


Figure 10

# 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
size (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	$2\frac{1}{2}$	—	$3\frac{1}{2}$	—

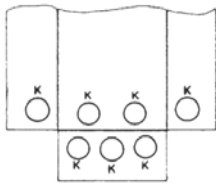


Figure 11

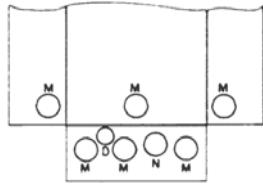


Figure 12

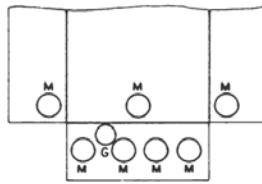


Figure 13

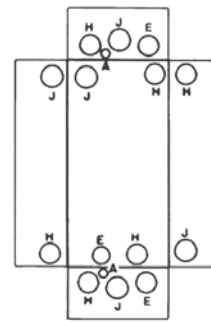


Figure 14

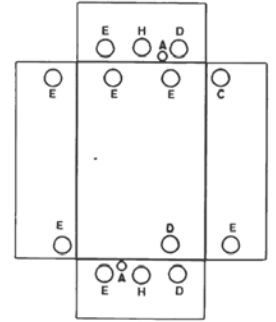


Figure 15

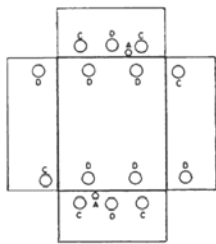


Figure 16

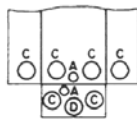


Figure 17

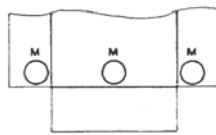


Figure 18

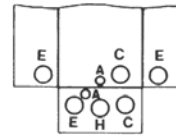


Figure 19

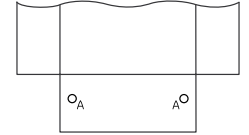


Figure 20