



BROCHURE

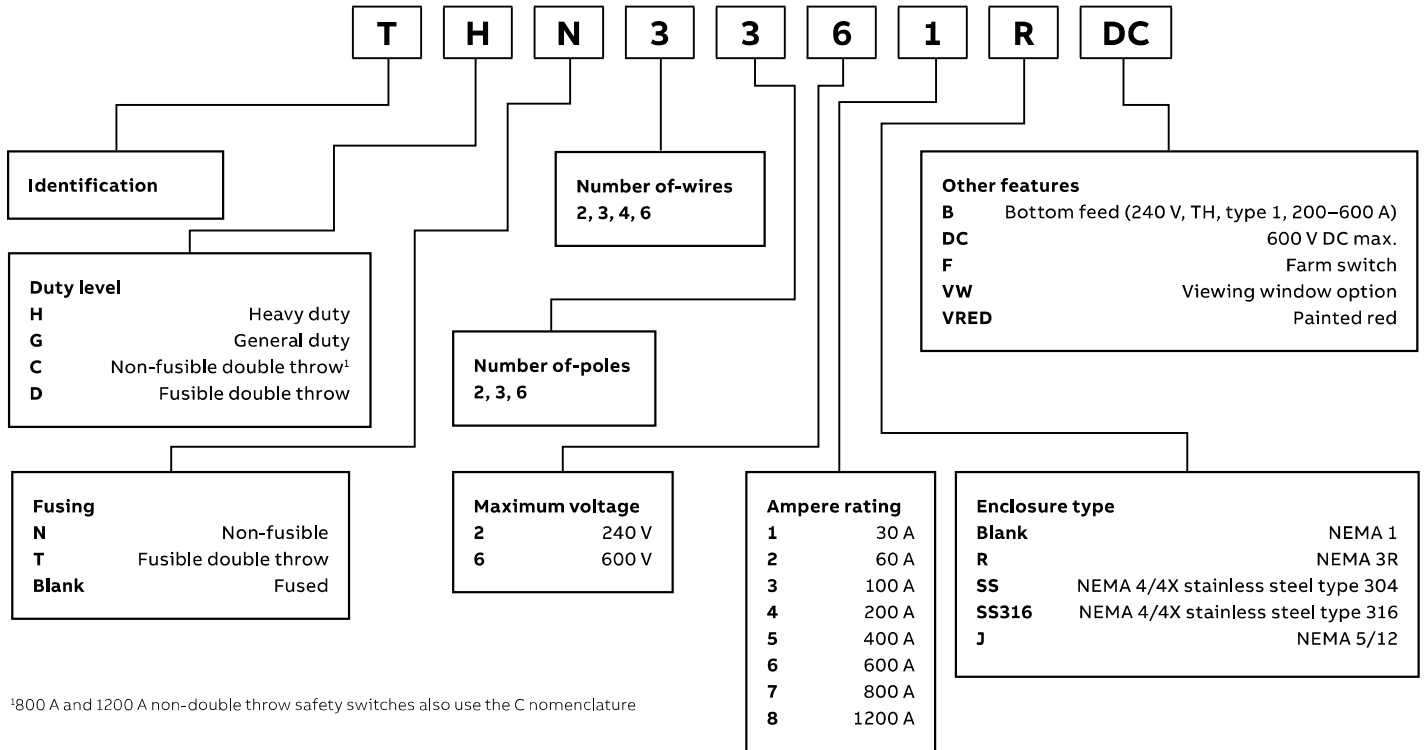
Spec-Setter™

Safety switches



Spec-Setter safety switches

Product number structure



Note: This information is provided for interpreting numbers. It should not be used to build product numbers.

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 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)	
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				
	30–600	Any other protective device	10,000	1, 3R
240 V AC		K upstream	10,000	
250 V DC		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) 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		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	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	3	7.5	5
	60	TG4322	TG4322R	3	10	7.5	15	10
	100	TG4323	TG4323R	7.5	15	15	30	20
	200	TG4324 ¹	TG4324R	15	15	25	50	–
	400	TG4325 ^{1,2}	⁴	–	–	50	100	–
	600	TG4326 ^{1,2}	⁴	–	–	75	100	–

	Product number			Horsepower rating				DC HP
	Amperage rating	NEMA type 1 indoor	NEMA type 3R outdoor	Single-phase 240 V AC		Three-phase 480 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 (painted red)								
	30	TG3221VRED	–	1.5	3	–	–	5
Fusible 3-pole 4-wire 240 V 50/60 Hz (painted red)								
	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		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.

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 or 600	Either	(1) 4–600 or (2) 1/0–250	(1) 4–600 or (2) 1/0–250
400	TNI65A		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.



02



03

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



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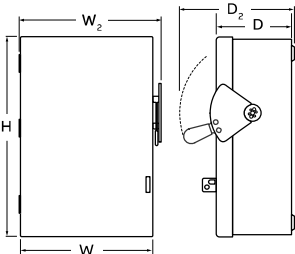
Series prefix	Ampere rating	System voltage (V AC)	NEMA enclosure type	Product number
TH	30	240	1, 3R, 4/4X, 12	TRK12B
	30	600	1, 3R	TRK16B
	30	600	4/4X, 12	TRK16SA
	60	240	1, 3R, 4/4X, 12	TRK22A
	60	600	1, 3R, 4/4X, 12	TRK26A
	100	240	1, 3R	TRK46A
		600		
	100	240	4/4X, 12	TPBRK36A
		600		
	200	240	1,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

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