

## Product Overview

## Product Selection Guide

## Safety Switch

Switch Type	NEMA Rating	Fused/non-fused	Number of Poles				
			1	2	3	4	6
Heavy-duty single-throw	NEMA 1	Fused and non-fused <sup>①</sup>	—	30–800A	30–1200A	30–600A	—
	NEMA 3R	Fused and non-fused <sup>②</sup>	30–600A	30–800A	30–1200A	—	—
	NEMA 12/3R	Fused and non-fused <sup>①②</sup>	30–600A	30–800A	30–1200A	30–600A	30–200A
	NEMA 4	Fused and non-fused	—	400–800A	400–800A	—	—
	NEMA 7/9	Fused and non-fused <sup>③</sup>	—	—	30–100A	—	—
	NEMA 4X Non-Metallic	Fused and non-fused <sup>③</sup>	—	—	30–200A	—	—
	NEMA 4X stainless-steel (304 or 316 grade)	Fused and non-fused <sup>①②</sup>	30–600A	30–800A	30–1200A	30–600A	30–200A
General-duty single-throw	NEMA 1	Plug fuse	30A	30A	—	—	—
	NEMA 1 and 3R	Fused	—	30–600A	30–600A	—	—
	NEMA 1	Non-fused	—	30–100A	30–600A	—	—
	NEMA 3R	Non-fused	—	30–200A	30–600A	—	—
Heavy-duty double-throw	NEMA 1	Fused	—	200A	30–1200A	—	—
	NEMA 3R	Fused <sup>④</sup>	—	200A	100–1200A	—	—
	NEMA 12	Fused	—	—	30–400A	—	—
	NEMA 4X stainless-steel (304 or 316 grade)	Fused	—	—	30–400A	—	—
	NEMA 1	Non-fused	—	30–1200A	30–1200A	200–800A	—
	NEMA 3R	Non-fused <sup>④</sup>	—	200–1200A	30–1200A	30–800A	30–100A
	NEMA 12	Non-fused	—	—	30–800A	—	—
	NEMA 4X stainless-steel (304 or 316 grade)	Non-fused	—	—	30–800A	—	—
General-duty double-throw	NEMA 3R	Non-fused	—	30–400A	—	—	—
Shunt trip safety switches	NEMA 1, 3R, 4, and 12	Fused and non-fused	—	30–800A	30–800A	30–400A	—
Window switches	NEMA 12/3R and 4X stainless-steel (304 or 316 grade)	Fused and non-fused <sup>①</sup>	—	30–1200A	30–1200A	30–600A	30–200A
Enviroline stainless-steel switch	NEMA 4X (304 or 316 grade)	Fused and non-fused <sup>⑤</sup>	—	30–400A	30–400A	—	—
Mill Duty Switches	NEMA 12/3R and 4X stainless-steel (304 or 316 grade)	Fused and non-fused	—	30–600A	30–600A	—	—
Quick connect double-throw	NEMA 1 and 3R	Fused and non-fused <sup>④</sup>	—	100–1200A	100–1200A	100–1200A	—
Quick connect single-throw	NEMA 1 and 3R	Fused and non-fused <sup>④</sup>	—	100–1200A	100–1200A	100–1200A	—
Elevator control switches	NEMA 1, 3R, 4, and 12	Fused	—	—	30–400A	—	—
OEM Line Isolation Switches (OLI)	NEMA 12/3R and 4X stainless-steel (304 or 316 grade)	Fused and non-fused	—	30–400A	30–400A	—	—
Receptacle switches	NEMA 12/3R and 4X stainless-steel (304 or 316 grade)	Fused and non-fused <sup>⑥</sup>	—	—	30–100A	—	—
Auxiliary power switch	NEMA 3R	Fused and non-fused <sup>④</sup>	—	—	30–200A	—	—
Left-handed switches	NEMA 1, 3R, 12, and 4X stainless-steel (304 or 316 grade)	Fused and non-fused <sup>⑦</sup>	—	—	30–200A	—	—
Heavy-duty CUBEFuse®	NEMA 1	Fused	—	—	30–100A	30–100A	—
	NEMA 3R	Fused	—	—	30–100A	—	—
	NEMA 12/3R	Fused	—	—	30–100A	100A	—
	NEMA 4X stainless-steel (304 or 316 grade)	Fused	—	—	30–100A	—	—
Surge switches	NEMA 12/3R and 4X stainless-steel (304 or 316 grade)	Fused and non-fused	—	30–1200A	30–1200A	—	—
Heavy-duty double door	NEMA 12/3R and 4X stainless-steel (304 or 316 grade)	Fused	—	30–1200A	30–1200A	—	—
Enclosed rotary	NEMA 1, 12/3R, NEMA 4X stainless-steel	Non-fused	—	—	16–80A	16–80A	—
	NEMA 4X non-metallic	Non-fused	—	—	16–80A	16–80A	—
	NEMA 4X polycarbonate non-metallic	Non-fused	—	—	30A and 60A	16–80A	—

## Notes

<sup>①</sup> 400–800A 6-pole, and 800A 4-pole heavy-duty, single-throw switches are non-UL Listed and available.

<sup>②</sup> Single-pole product is the single circuit 600 Vdc switch series.

<sup>③</sup> No viewing windows or other enclosure modifications are available with this product.

<sup>④</sup> NEMA 3R stainless versions are available and are UL Listed.

<sup>⑤</sup> Enviroline stainless-steel switches have stainless-steel enclosures, sub pans, handles, and mechanisms.

<sup>⑥</sup> Switches with non-standard receptacles or at higher amperages are non-UL Listed and available.

<sup>⑦</sup> All left-handed switches are non-UL Listed. Higher amperages are not available.

## Cross-Reference

## General-Duty

Ampere Rating	Catalog Number	Eaton	General Electric	Siemens	Square D
<b>Plug Fuse, Single-Pole, Two-Wire, 120 Vac, NEMA 1</b>					
30	<b>DP111NGB</b>	TPF130	LF111N	D211N	
<b>Plug Fuse, Two-Pole, Three-Wire, 240 Vac, NEMA 1</b>					
30	<b>DP221NGB</b>	TPF230	LF211N	D211N	
<b>Fusible, Two-Pole, Three-Wire, 240 Vac, NEMA 1</b>					
30	<b>DG221NGB</b>	TG3221	GF221N	D221N	
60	<b>DG222NGB</b>	TG3222	GF222N	D222N	
100	<b>DG223NGB</b>	TG3223	GF223N	D223N	
200	<b>DG224NGK</b>	TG3224	GF224N	D224N	
400	<b>DG225NGK</b>	TG3225	GF225N	D225N	
600	<b>DG226NGK</b>	TG3226	GF226N	D226N	
<b>Fusible, Three-Pole, Three-Wire, 240 Vac, NEMA 1</b>					
30	<b>DG321NGB</b>	TG4321	GF321N	D321N	
60	<b>DG322NGB</b>	TG4322	GF322N	D322N	
100	<b>DG323NGB</b>	TG4323	GF323N	D323N	
200	<b>DG324NGK</b>	TG4324	GF324N	D324N	
400	<b>DG325FGK</b>	TG3325	GF325N	D325N	
600	<b>DG326FGK</b>	TG3326	GF326N	D326N	
<b>Fusible, Three-Pole, Four-Wire, 240 Vac, NEMA 1</b>					
30	<b>DG321NGB</b>	TG4321	GF321N	D321N	
60	<b>DG322NGB</b>	TG4322	GF322N	D322N	
100	<b>DG323NGB</b>	TG4323	GF323N	D323N	
200	<b>DG324NGK</b>	TG4324	GF324N	D324N	
400	<b>DG325NGK</b>	TG4325	GF325N	D325N	
600	<b>DG326NGK</b>	TG4326	GF326N	D326N	
<b>Non-Fusible, Two-Pole, Two-Wire, 240 Vac, NEMA 1</b>					
30	<b>DG221UGB</b>	TGN3321	N/A	N/A	
60	<b>DG222UGB</b>	TGN3322	N/A	Q0260NATS	
100	<b>DG223UGB</b>	TGN3323	N/A	Q02000NS	
200	<b>DG324UGK</b>	TGN3324	N/A	DU324	
400	<b>DG325UGK</b>	TGN3325	N/A	DU325	
600	<b>DG326UGK</b>	TGN3326	N/A	DU326	
<b>Non-Fusible, Three-Pole, Three-Wire, 240 Vac, NEMA 1</b>					
30	<b>DG321UGB</b>	TGN3321	GNF321	DU321	
60	<b>DG322UGB</b>	TGN3322	GNF322	DU322	
100	<b>DG323UGB</b>	TGN3323	GNF323	DU323	
200	<b>DG324UGK</b>	TGN3324	GNF324	DU324	
400	<b>DG325UGK</b>	TGN3325	GNF325	DU325	
600	<b>DG326UGK</b>	TGN3326	GNF326	DU326	

## General-Duty, continued

Ampere Rating	Catalog Number	Eaton	General Electric	Siemens	Square D
<b>Fusible, Two-Pole, Three-Wire, 240 Vac, NEMA 3R</b>					
30	<b>DG221NRB</b>	TG3221R	GF221NR	D221NRB	
60	<b>DG222NRB</b>	TG3222R	GF222NR	D222NRB	
100	<b>DG223NRB</b>	TG3223R	GF223NR	D223NRB	
200	<b>DG224NRK</b>	TG3224R	GF224NR	D224NRB	
400	<b>DG225NRK</b>	TG3225R	GF225NR	D225NR	
600	<b>DG226NRK</b>	TG3226R	GF226NR	D226NR	
<b>Fusible, Three-Pole, Three-Wire, 240 Vac, NEMA 3R</b>					
30	<b>DG321NRB</b>	TG4321R	GF321NR	D321NRB	
60	<b>DG322NRB</b>	TG4322R	GF322NR	D322NRB	
100	<b>DG323NRB</b>	TG4323R	GF323NR	D323NRB	
200	<b>DG324NRK</b>	TG4324R	GF324NR	D324NRB	
400	<b>DG325FRK</b>	TG3325R	GF325NR	D325NR	
600	<b>DG326FRK</b>	TG3326R	GF326NR	D326NR	
<b>Fusible, Three-Pole, Four-Wire, 240 Vac, NEMA 3R</b>					
30	<b>DG321NRB</b>	TG4321R	GF321NR	D321NRB	
60	<b>DG322NRB</b>	TG4322R	GF322NR	D322NRB	
100	<b>DG323NRB</b>	TG4323R	GF323NR	D323NRB	
200	<b>DG324NRK</b>	TG4324R	GF324NR	D324NRB	
400	<b>DG325NRK</b>	TG3325R <sup>①</sup>	GF325NR	D325NR	
600	<b>DG326NRK</b>	TG3326R <sup>①</sup>	GF326NR	D326NR	
<b>Non-Fusible, Two-Pole, Two-Wire, 240 Vac, NEMA 3R</b>					
30	<b>DG221URB</b>	TGN3321R	GNF321R	DU221RB	
60	<b>DG222URB</b>	TGN3322R	GNF322R	DU222RB	
100	<b>DG223URB</b>	TGN3323R	GNF323R	Q02000NRB	
200	<b>DG324URK</b>	TGN3324R	GNF324R	DU324RB	
<b>Non-Fusible, Three-Pole, Three-Wire, 240 Vac, NEMA 3R</b>					
30	<b>DG321URB</b>	TGN3321R	GNF321R	DU321RB	
60	<b>DG322URB</b>	TGN3322R	GNF322R	DU322RB	
100	<b>DG323URB</b>	TGN3323R	GNF323R	DU323RB	
200	<b>DG324URK</b>	TGN3324R	GNF324R	DU324RB	
400	<b>DG325URK</b>	N/A	N/A	N/A	
600	<b>DG326URK</b>	N/A	N/A	N/A	

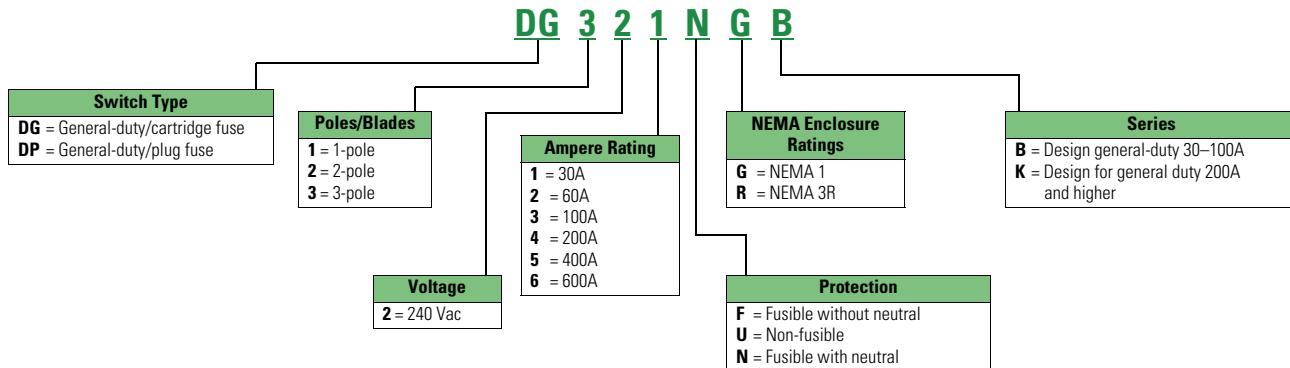
## Notes

<sup>①</sup> Separate neutral kit required.

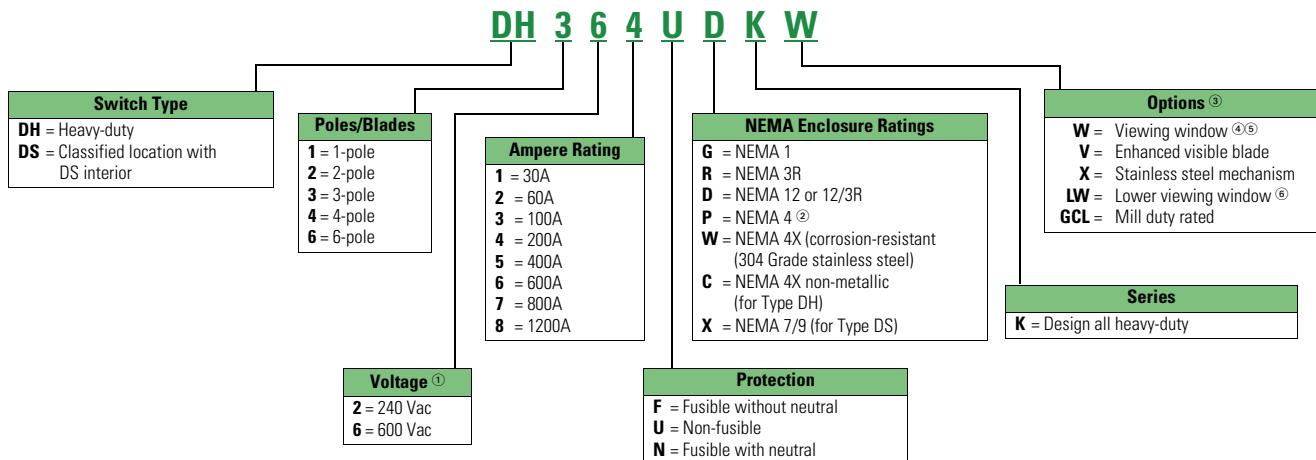
Always verify the number of poles and wires required since catalog numbers may appear in multiple tables.

## Catalog Number Selection

## General-Duty



## Heavy-Duty



## Notes

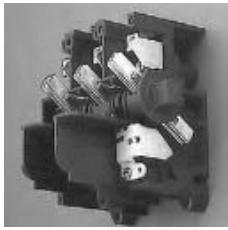
- ① For DC ratings, check individual switch ratings.
- ② Only available for 400A and higher safety switches.
- ③ See Modifications-Flex Center for additional available options.
- ④ All window switches feature enhanced visible blade design as standard.
- ⑤ Only available in NEMA 12/3R and NEMA 4X enclosures.
- ⑥ Only available in 200 to 1200A NEMA 12/3R and NEMA 4X enclosures.

These tables are intended for use in breaking down existing catalog numbers. They are not intended for building new catalog numbers.

A factory-installed ground lug is supplied in all heavy-duty safety switches.

All general-duty switches above 100A and all heavy-duty switches incorporate these K-Series switch design features.

- Two points of contact provide a positive open and close, easier operation, and also help prevent contact burning for longer contact life



**Visible Double-Break Rotary Blade Mechanism**

- Protects against accidental contact with energized parts. Probe holes enable the user to test if the line side is energized without removing the shield. Not provided on general-duty switches, but available as a field kit or factory installed



**Clear Line Shield**



**Clearly Visible Handle**

- The position (ON or OFF) can be clearly seen from a distance and the length provides for easy operation



**Triple Padlocking Capability**

- Personnel safety feature because the large hasp can accommodate up to three 3/8-inch (9.5 mm) shank locks



**Additional Locking Capability**

- Cabinet door can be further padlocked at the top and bottom as applicable



**Interlocking Mechanism**

- Door cannot be opened when the handle is in the ON position. Front and side operable defeater mechanism provides for user access when necessary on single-throw switches



**Tangential Knockouts**

- An ample number are provided on the top, bottom and sides of both NEMA Types 1 and 3R enclosures through 200A



**Bolt-On Hub Kits**

- For switches in a NEMA Type 3R, 30–200A. Use a Myers type hub for all others

## Standards and Certifications

- UL listed File No. E5239
- Meets UL 98 for enclosed switches and NEMA Std. KS-1



## Seismic Qualifications

- General-duty switches exceed the requirements of Uniform Building Code (UBC) and California Code Title 24 OSP-0011-10, OSP-0012-10



## Product Selection

## 120/240 Vac General-Duty, Fusible, Single-Throw

System	Ampere Rating	Fuse Type Provision	Maximum Horsepower Ratings <sup>①</sup>			DC 250V	NEMA 1 Enclosure Indoor Catalog Number	NEMA 3R Enclosure Rainproof Catalog Number		
			Single-Phase AC 120V	240V	Three-Phase AC 240V					
<b>DP221NGB</b>										
<b>Plug Type—Two-Wire (One Blade, One Fuse, S/N)—120 Vac <sup>②</sup></b>			30	Plug (Type S, T or W)	1/2-2	—	—	DP111NGB <sup>②</sup>		
<b>Plug Type—Three-Wire (Two Blades, Two Fuses, S/N)—120/240 Vac</b>			30	Plug (Type S, T or W)	1/2-2	1-1/2-3	—	DP221NGB <sup>②</sup>		
<b>Cartridge Type—Two-Pole Two-Wire (Two Blades, Two Fuses)—240 Vac</b>			30	—	—	1-1/2-3	3-7-1/2	— <sup>③</sup> <sup>③</sup>		
60										
100										
200										
400										
600										
<b>Cartridge Type—Three-Wire (Two Blades, Two Fuses, S/N)—120/240 Vac</b>			30	H	—	1-1/2-3	3-7-1/2 <sup>④</sup>	— <b>DG221NGB</b> <b>DG221NRB</b>		
60										
100										
200										
400										
600										

**Notes**

- <sup>①</sup> Maximum hp ratings apply only when dual element time delay fuses are used.
- <sup>②</sup> These switches do not have an interlock that prevents door from being opened when switch is in the ON position.
- <sup>③</sup> Use three-wire catalog numbers below.
- <sup>④</sup> Solid neutral bars are not included. Order separately from table on **Page V2-T1-13**.
- <sup>⑤</sup> **WARNING!** Switch is not approved for service entrance unless a neutral kit is installed.
- <sup>⑥</sup> Grounded B phase rating, UL listed.

All general-duty safety switches are individually packaged.

Accessories are limited in scope on general-duty safety switches. See **Page V2-T1-13** for availability. In addition, clear line shields are available as an accessory on 200–600A general-duty switches. Catalog Numbers: 200A = 70-7759-11, 400A = 70-8063-8, 600A = 70-8064-8.

## DG321NRB



## 120/240 Vac General-Duty, Fusible, Single-Throw, continued

System	Ampere Rating	Fuse Type Provision	Maximum Horsepower Ratings <sup>①</sup>			DC 250V	NEMA 1 Enclosure Indoor Catalog Number	NEMA 3R Enclosure Rainproof Catalog Number
			Single-Phase AC 120V	240V	Three-Phase AC 240V			
<b>Cartridge Type—Three-Pole, Three-Wire (Three Blades, Three Fuses)—240 Vac</b>								
	30	—	—	—	—	—	②	②
	60	—	—	—	—	—	②	②
	100	—	—	—	—	—	②	②
	200	H	—	15	25–60	—	DG324FGK ③④	②
	400	H	—	—	50–125	—	DG325FGK ③④	DG325FRK ③④
	600	H	—	—	75–200	—	DG326FGK ③④	DG326FRK ③④
<b>Cartridge Type—Four-Wire (Three Blades, Three Fuses, S/N)—120/240 Vac</b>								
	30	H	—	1-1/2–3	3-7-1/2	—	DG321NGB	DG321NRB
	60	H	—	3–10	7-1/2–15	—	DG322NGB	DG322NRB
	100	H	—	7-1/2–15	15–30	—	DG323NGB	DG323NRB
	200	H	—	15	25–60	—	DG324NGK	DG324NRK
	400	H	—	—	50–125	—	DG325NGK	DG325NRK
	600	H	—	—	75–200	—	DG326NGK	DG326NRK

## DG322URB



## 120/240 Vac General-Duty, Non-Fusible, Single-Throw

System	Ampere Rating	Maximum Horsepower Ratings			DC 250V	NEMA 1 Enclosure Indoor Catalog Number	NEMA 3R Enclosure Rainproof Catalog Number
		Single-Phase AC 120V	240V	Three-Phase AC 240V			
<b>Two-Pole, Two-Wire (Two Blades)—240 Vac</b>							
	30	2	3	—	—	DG221UGB ④	DG221URB ④
	60	3	10	—	—	DG222UGB ④	DG222URB ④
	100	—	15	—	—	DG223UGB ④	DG223URB ④
	200	—	15	—	—	④⑤	DG224URK ④
<b>Three-Pole, Three-Wire (Three Blades)—240 Vac</b>							
	30	2	3	7-1/2	—	DG321UGB ④	DG321URB ④
	60	3	10	15	—	DG322UGB ④	DG322URB ④
	100	—	15	30	—	DG323UGB ④	DG323URB ④
	200	—	15	60	—	DG324UGK ④	DG324URK ④
	400	—	—	125	—	DG325UGK ④	DG325URK ④
	600	—	—	200	—	DG326UGK ④	DG326URK ④

## Notes

- ① Maximum hp ratings apply only when dual element time delay fuses are used.
- ② Use four-wire catalog numbers below.
- ③ Solid neutral bars are not included. Order separately from table on **Page V2-T1-13**.
- ④ **WARNING!** Switch is not approved for service entrance unless a neutral kit is installed.
- ⑤ Use three-wire catalog numbers below.

All general-duty safety switches are individually packaged.

Accessories are limited in scope on general-duty safety switches. See **Page V2-T1-13** for availability. In addition, clear line shields are available as an accessory on 200–600A general-duty switches. Catalog Numbers: 200A = 70-7759-11, 400A = 70-8063-8, 600A = 70-8064-8.