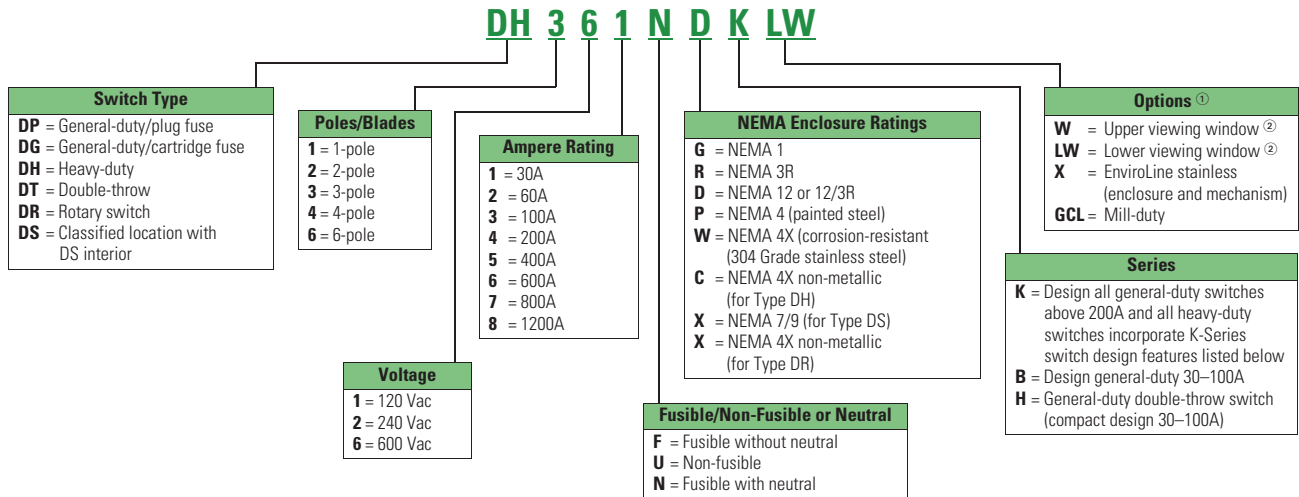


Catalog Number Selection

1

Safety Switch



Notes

^① See **Pages V2-T1-16 through V2-T1-19** for additional Flex Center options.

^② Effective August 2003, 30–100A window switches are replaced by a full view window that allows blade position verification and blown fuse indication. See **Page V2-T1-39** for catalog numbers.

This table is intended for use in breaking down existing catalog numbers. It is not intended for building new catalog numbers.

A factory-installed ground lug is supplied on all NEMA 4, 4X and 12 safety switches, as well as all 400A and higher NEMA 1 and 3R safety switches. A factory-installed ground lug is also supplied on all heavy-duty NEMA 1 and 3R 30–200A switches that do NOT have a factory-installed neutral.

Cartridge Fuse General-Duty Safety Switch



General Duty

Product Description

- 30–600A
- Suitable for service entrance applications unless otherwise noted
- Fusible and non-fusible switches are 100% load break and 100% load make rated
- The continuous load current of fusible switches is not to exceed 80% of the rating of fuses employed in other than motor circuits. Non-fusible switches are 100% fully rated
- 200–600A features K-Series design
- Horsepower rated

- Fusible and non-fusible switches. Single-pole S/N through four-wire; 120/240, and 240 Vac
- With Class R fuses, switches may be used on systems capable of delivering 100,000A rms symmetrical

Note: Plug fuse switches are not service entrance rated.

- Bolt-on hub provision. Provided for general-duty switches in a NEMA 3R enclosure. See **Page V2-T1-15** for selection

Application Description

For residential and commercial applications. Suitable for light-duty motor circuits and service entrance.

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Shunt Trip Safety Switch	V2-T1-63
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Auxiliary Power Heavy-Duty Safety Switch	V2-T1-83
Left-Handed Safety Switch	V2-T1-86
200% Neutral Safety Switches	V2-T1-87
Pringle Bolted Pressure Switch	V2-T1-88
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Type Visi-Flex DE-ION	V2-T1-94
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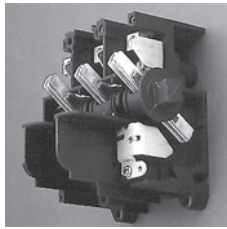
Features, Benefits and Functions

General-Duty (Cartridge Fuse)

- Ample wire bending space provides for easier installation
- Visible double-break quick-make, quick-break rotary blade mechanism
- Side opening door on all enclosures
- Mechanically interlocked cover to prevent easy access when the switch is in the ON position
- With Class R fuses, switches may be used on systems capable of delivering 100,000A rms symmetrical
- Clearly visible and accessible neutral where applicable
- Visible ON/OFF indication
- Tangential knockouts on 30–60A designs
- Ample wiring space
- Double padlocking capability on 30–100A
- Triple padlocking capability on 200–600A
- Additional door locking capability
- Bilingual English/Spanish door label on 30–100A
- Tri-lingual nameplates

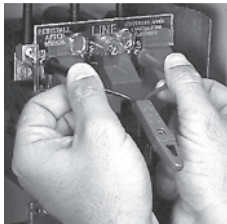
All general-duty switches above 100A and all heavy-duty switches incorporate these K-Series switch design features.

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



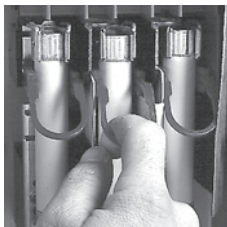
Visible Double-Break Rotary Blade Mechanism

- 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 typically provided on general-duty switches, but available as a field kit or factory installed

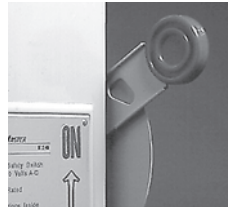


Clear Line Shield

- Provide easy removal of fuses



Built-In Fuse Pullers (NEMA 12 and 4X 30–200A Only)



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



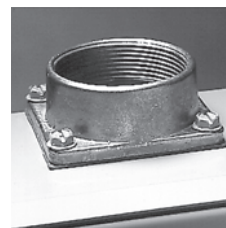
Interlocking Mechanism

- 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



Product Selection

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

DP221NGB



System	Ampere Rating	Fuse Type Provision	Maximum Horsepower Ratings ^①		Three-Phase AC 240V	DC 250V	NEMA 1 Enclosure Indoor Catalog Number	NEMA 3R Enclosure Rainproof Catalog Number
			Single-Phase AC 120V	240V				
Plug Type—Two-Wire (One Blade, One Fuse, S/N)— 120 Vac ^②								
	30	Plug (Type S, T or W)	1/2–2	—	—	—	DP111NGB ^②	—
Plug Type—Three-Wire (Two Blades, Two Fuses, S/N)— 120/240 Vac								
	30	Plug (Type S, T or W)	1/2–2	1-1/2–3	—	—	DP221NGB ^②	Use cartridge-type fuse catalog number DG221NRB ^②
Cartridge Type—Two-Pole Two-Wire (Two Blades, Two Fuses)—240 Vac								
	30	—	—	1-1/2–3	3–7-1/2	—	^③	^③
	60	—	—	3–10	7-1/2–15	—	^③	^③
	100	—	—	7-1/2–15	15–30	—	^③	^③
	200	H	—	15	25–60	—	DG224FGK ^{④⑤}	DG224FRK ^{④⑤}
	400	H	—	—	50–125	—	DG225FGK ^{④⑤}	DG225FRK ^{④⑤}
	600	H	—	—	75–200	—	DG226FGK ^{④⑤}	DG226FRK ^{④⑤}
Cartridge Type—Three-Wire (Two Blades, Two Fuses, S/N)— 120/240 Vac								
	30	H	—	1-1/2–3	3–7-1/2 ^⑥	—	DG221NGB ^②	DG221NRB ^②
	60	H	—	3–10	7-1/2–15 ^⑥	—	DG222NGB ^②	DG222NRB ^②
	100	H	—	7-1/2–15	15–30 ^⑥	—	DG223NGB ^②	DG223NRB ^②
	200	H	—	15	25–60 ^⑥	—	DG224NGK	DG224NRK
	400	H	—	—	50–125 ^⑥	50	DG225NGK	DG225NRK
	600	H	—	—	75–200 ^⑥	—	DG226NGK	DG226NRK

Notes

- ① Maximum hp ratings apply only when dual element time delay fuses are used.
 ② These switches do not have an interlock that prevents door from being opened when switch is in the ON position.
 ③ Use three-wire catalog numbers below.
 ④ Solid neutral bars are not included. Order separately from table on **Page V2-T1-14**.
 ⑤ **WARNING!** Switch is not approved for service entrance unless a neutral kit is installed.
 ⑥ 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-T1-14** 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.

Dimensions

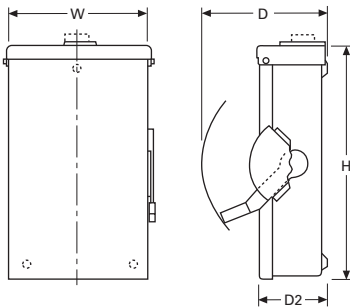
Approximate Dimensions in Inches (mm)

Plug Fuse, 120, 120/240V, Single-, Two-Pole Solid Neutral, Single-Throw

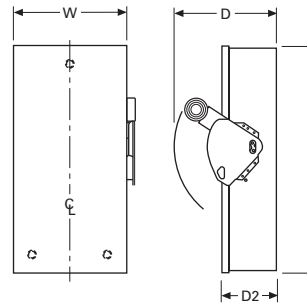
Ampere Rating	NEMA 1 Height	Width	Depth
30	6.88 (174.8)	4.94 (125.5)	3.44 (87.4)

General-Duty, Non-Fusible, 240V, Three-Pole, Single-Throw ①

Ampere Rating	Width (W)	Height (H)	Depth (D)	Depth (D2)	Weight Lbs (kg)
NEMA 1					
30	6.38 (162.1)	10.69 (271.5)	6.88 (174.8)	3.75 (95.2)	6 (2.724)
60	8.69 (220.7)	14.19 (360.4)	7.38 (187.5)	4.21 (106.9)	9 (4.086)
100	9.13 (231.9)	18.81 (477.8)	7.38 (187.5)	4.23 (107.4)	12 (5.448)
200	16.00 (406.4)	24.75 (628.7)	11.25 (285.8)	6.14 (156.0)	48 (21.792)
400	23.00 (584.2)	44.75 (1136.7)	12.63 (320.8)	7.27 (184.7)	100 (45.4)
600	24.00 (609.6)	52.25 (1327.2)	14.25 (362.0)	8.95 (227.3)	130 (59.02)
NEMA 3R					
30	6.38 (162.1)	10.81 (274.6)	6.88 (174.8)	3.75 (95.2)	6 (2.724)
60	8.69 (220.7)	14.38 (365.3)	7.38 (187.5)	4.21 (106.9)	9 (4.086)
100	9.13 (231.9)	19.25 (489.0)	7.38 (187.5)	4.23 (107.4)	12 (5.448)
200	16.00 (406.4)	25.50 (647.7)	11.25 (285.8)	6.14 (156.0)	55 (24.97)
400	23.00 (584.2)	45.19 (1147.8)	12.63 (320.8)	7.27 (184.7)	105 (47.67)
600	24.00 (609.6)	52.70 (1338.6)	14.25 (362.0)	8.95 (227.3)	135 (61.29)

NEMA 1-3R 30–100A General-Duty Non-Fusible and Fusible Single-Throw ②**General-Duty, Fusible, 240V, Three-Pole Solid Neutral, Single-Throw** ①

Ampere Rating	Width (W)	Height (H)	Depth (D)	Depth (D2)	Weight Lbs (kg)
NEMA 1					
30	6.38 (162.1)	10.69 (271.5)	6.88 (174.8)	3.75 (95.2)	6 (2.724)
60	8.69 (220.7)	14.19 (360.4)	7.38 (187.5)	4.21 (106.9)	10 (4.54)
100	9.13 (231.9)	18.81 (477.8)	7.38 (187.5)	4.23 (107.4)	14 (6.356)
200	16.00 (406.4)	24.75 (628.7)	11.25 (285.8)	6.14 (156.0)	48 (21.792)
400	23.00 (584.2)	44.75 (1136.7)	12.63 (320.8)	7.27 (184.7)	110 (49.94)
600	24.00 (609.6)	52.25 (1327.2)	14.25 (362.0)	8.95 (227.3)	145 (65.83)
NEMA 3R					
30	6.38 (162.1)	10.81 (274.6)	6.88 (174.8)	3.75 (95.2)	6 (2.724)
60	8.69 (220.7)	14.38 (365.3)	7.38 (187.5)	4.21 (106.9)	10 (4.54)
100	9.13 (231.9)	19.25 (489.0)	7.38 (187.5)	4.23 (107.4)	14 (6.356)
200	16.00 (406.4)	25.50 (647.7)	11.25 (285.8)	6.14 (156.0)	55 (24.97)
400	23.00 (584.2)	45.19 (1147.8)	12.63 (320.8)	7.27 (184.7)	115 (52.21)
600	24.00 (609.6)	52.70 (1338.6)	14.25 (362.0)	8.95 (227.3)	150 (68.1)

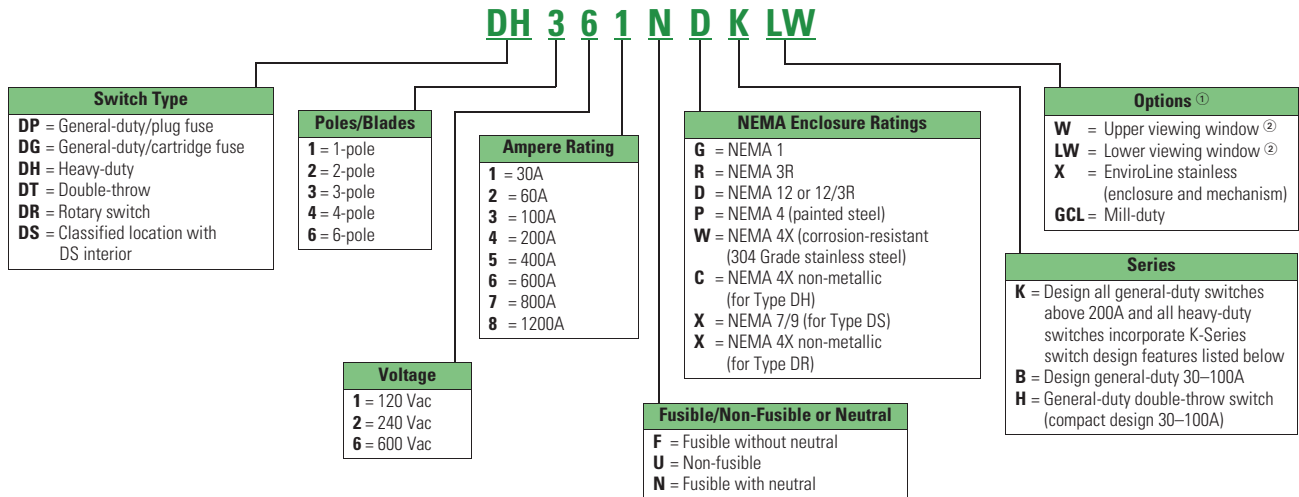
NEMA 1-3R 200–600A General-Duty Non-Fusible and Fusible Single-Throw**Notes**

- ① Dimensions are for estimating purposes only.
 ② Figure is not applicable to plug fuse.

Catalog Number Selection

1

Safety Switch



Notes

① See **Pages V2-T1-16 through V2-T1-19** for additional Flex Center options.

② Effective August 2003, 30–100A window switches are replaced by a full view window that allows blade position verification and blown fuse indication. See **Page V2-T1-39** for catalog numbers.

This table is intended for use in breaking down existing catalog numbers. It is not intended for building new catalog numbers.

A factory-installed ground lug is supplied on all NEMA 4, 4X and 12 safety switches, as well as all 400A and higher NEMA 1 and 3R safety switches. A factory-installed ground lug is also supplied on all heavy-duty NEMA 1 and 3R 30–200A switches that do NOT have a factory-installed neutral.

Cartridge Fuse General-Duty Safety Switch



General Duty

Product Description

- 30–600A
- Suitable for service entrance applications unless otherwise noted
- Fusible and non-fusible switches are 100% load break and 100% load make rated
- The continuous load current of fusible switches is not to exceed 80% of the rating of fuses employed in other than motor circuits. Non-fusible switches are 100% fully rated
- 200–600A features K-Series design
- Horsepower rated

- Fusible and non-fusible switches. Single-pole S/N through four-wire; 120/240, and 240 Vac
- With Class R fuses, switches may be used on systems capable of delivering 100,000A rms symmetrical

Note: Plug fuse switches are not service entrance rated.

- Bolt-on hub provision. Provided for general-duty switches in a NEMA 3R enclosure. See **Page V2-T1-15** for selection

Application Description

For residential and commercial applications. Suitable for light-duty motor circuits and service entrance.

Contents

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Heavy-Duty	V2-T1-31
Six-Pole Switches	V2-T1-43
Double-Throw Switches	V2-T1-45
EnviroLine—Stainless Steel Switch	V2-T1-53
EnviroLine—Upper and Lower Window Switches	V2-T1-56
EnviroLine—Receptacle Switches	V2-T1-59
EnviroLine—Non-Metallic KRYDON Switch	V2-T1-61
Shunt Trip Safety Switch	V2-T1-63
NEMA 7/9—Hazardous Location Disconnect Switch	V2-T1-66
Quick Connect Switches	V2-T1-68
Solar Disconnect Switch	V2-T1-70
316-Grade Stainless Steel Safety Switches	V2-T1-72
Mill-Duty Rated, Heavy-Duty, Fusible, Non-Fusible, Single-Throw	V2-T1-76
Heavy-Duty Fusible Safety Switches Accepting Cube Fuses	V2-T1-78
Elevator Control Switch	V2-T1-81
Auxiliary Power Heavy-Duty Safety Switch	V2-T1-83
Left-Handed Safety Switch	V2-T1-86
200% Neutral Safety Switches	V2-T1-87
Pringle Bolted Pressure Switch	V2-T1-88
Type DS, Fusible and Non-Fusible	V2-T1-91
Type Visi-Flex DE-ION	V2-T1-94
Flange Mounted—Variable Depth	V2-T1-98
Flange Mounted—Fixed Depth	V2-T1-102

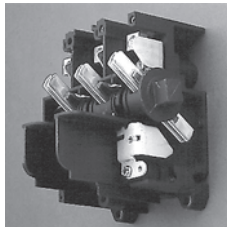
Features, Benefits and Functions

General-Duty (Cartridge Fuse)

- Ample wire bending space provides for easier installation
- Visible double-break quick-make, quick-break rotary blade mechanism
- Side opening door on all enclosures
- Mechanically interlocked cover to prevent easy access when the switch is in the ON position
- With Class R fuses, switches may be used on systems capable of delivering 100,000A rms symmetrical
- Clearly visible and accessible neutral where applicable
- Visible ON/OFF indication
- Tangential knockouts on 30–60A designs
- Ample wiring space
- Double padlocking capability on 30–100A
- Triple padlocking capability on 200–600A
- Additional door locking capability
- Bilingual English/Spanish door label on 30–100A
- Tri-lingual nameplates

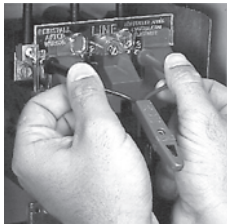
All general-duty switches above 100A and all heavy-duty switches incorporate these K-Series switch design features.

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



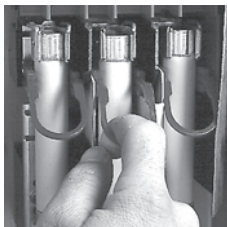
Visible Double-Break Rotary Blade Mechanism

- 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 typically provided on general-duty switches, but available as a field kit or factory installed

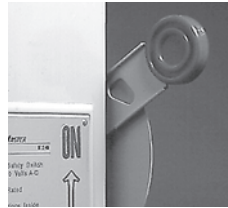


Clear Line Shield

- Provide easy removal of fuses



Built-In Fuse Pullers (NEMA 12 and 4X 30–200A Only)



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



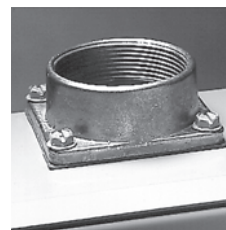
Interlocking Mechanism

- 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



Product Selection

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

DP221NGB



System	Ampere Rating	Fuse Type Provision	Maximum Horsepower Ratings ^①		Three-Phase AC 240V	DC 250V	NEMA 1 Enclosure Indoor Catalog Number	NEMA 3R Enclosure Rainproof Catalog Number
			Single-Phase AC 120V	240V				
Plug Type—Two-Wire (One Blade, One Fuse, S/N)— 120 Vac ^②								
	30	Plug (Type S, T or W)	1/2–2	—	—	—	DP111NGB ^②	—
Plug Type—Three-Wire (Two Blades, Two Fuses, S/N)— 120/240 Vac								
	30	Plug (Type S, T or W)	1/2–2	1-1/2–3	—	—	DP221NGB ^②	Use cartridge-type fuse catalog number DG221NRB ^②
Cartridge Type—Two-Pole Two-Wire (Two Blades, Two Fuses)—240 Vac								
	30	—	—	1-1/2–3	3–7-1/2	—	^③	^③
	60	—	—	3–10	7-1/2–15	—	^③	^③
	100	—	—	7-1/2–15	15–30	—	^③	^③
	200	H	—	15	25–60	—	DG224FGK ^{④⑤}	DG224FRK ^{④⑤}
	400	H	—	—	50–125	—	DG225FGK ^{④⑤}	DG225FRK ^{④⑤}
	600	H	—	—	75–200	—	DG226FGK ^{④⑤}	DG226FRK ^{④⑤}
Cartridge Type—Three-Wire (Two Blades, Two Fuses, S/N)— 120/240 Vac								
	30	H	—	1-1/2–3	3–7-1/2 ^⑥	—	DG221NGB ^②	DG221NRB ^②
	60	H	—	3–10	7-1/2–15 ^⑥	—	DG222NGB ^②	DG222NRB ^②
	100	H	—	7-1/2–15	15–30 ^⑥	—	DG223NGB ^②	DG223NRB ^②
	200	H	—	15	25–60 ^⑥	—	DG224NGK	DG224NRK
	400	H	—	—	50–125 ^⑥	50	DG225NGK	DG225NRK
	600	H	—	—	75–200 ^⑥	—	DG226NGK	DG226NRK

Notes

- ① Maximum hp ratings apply only when dual element time delay fuses are used.
 ② These switches do not have an interlock that prevents door from being opened when switch is in the ON position.
 ③ Use three-wire catalog numbers below.
 ④ Solid neutral bars are not included. Order separately from table on **Page V2-T1-14**.
 ⑤ **WARNING!** Switch is not approved for service entrance unless a neutral kit is installed.
 ⑥ 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-T1-14** 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.

Dimensions

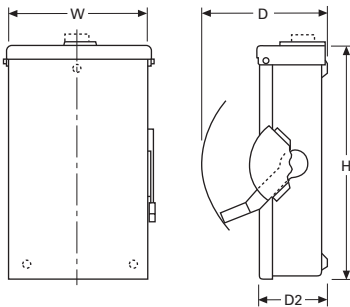
Approximate Dimensions in Inches (mm)

Plug Fuse, 120, 120/240V, Single-, Two-Pole Solid Neutral, Single-Throw

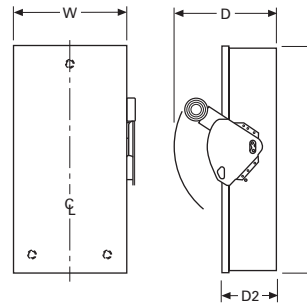
Ampere Rating	NEMA 1 Height	Width	Depth
30	6.88 (174.8)	4.94 (125.5)	3.44 (87.4)

General-Duty, Non-Fusible, 240V, Three-Pole, Single-Throw ①

Ampere Rating	Width (W)	Height (H)	Depth (D)	Depth (D2)	Weight Lbs (kg)
NEMA 1					
30	6.38 (162.1)	10.69 (271.5)	6.88 (174.8)	3.75 (95.2)	6 (2.724)
60	8.69 (220.7)	14.19 (360.4)	7.38 (187.5)	4.21 (106.9)	9 (4.086)
100	9.13 (231.9)	18.81 (477.8)	7.38 (187.5)	4.23 (107.4)	12 (5.448)
200	16.00 (406.4)	24.75 (628.7)	11.25 (285.8)	6.14 (156.0)	48 (21.792)
400	23.00 (584.2)	44.75 (1136.7)	12.63 (320.8)	7.27 (184.7)	100 (45.4)
600	24.00 (609.6)	52.25 (1327.2)	14.25 (362.0)	8.95 (227.3)	130 (59.02)
NEMA 3R					
30	6.38 (162.1)	10.81 (274.6)	6.88 (174.8)	3.75 (95.2)	6 (2.724)
60	8.69 (220.7)	14.38 (365.3)	7.38 (187.5)	4.21 (106.9)	9 (4.086)
100	9.13 (231.9)	19.25 (489.0)	7.38 (187.5)	4.23 (107.4)	12 (5.448)
200	16.00 (406.4)	25.50 (647.7)	11.25 (285.8)	6.14 (156.0)	55 (24.97)
400	23.00 (584.2)	45.19 (1147.8)	12.63 (320.8)	7.27 (184.7)	105 (47.67)
600	24.00 (609.6)	52.70 (1338.6)	14.25 (362.0)	8.95 (227.3)	135 (61.29)

NEMA 1-3R 30–100A General-Duty Non-Fusible and Fusible Single-Throw ②**General-Duty, Fusible, 240V, Three-Pole Solid Neutral, Single-Throw** ①

Ampere Rating	Width (W)	Height (H)	Depth (D)	Depth (D2)	Weight Lbs (kg)
NEMA 1					
30	6.38 (162.1)	10.69 (271.5)	6.88 (174.8)	3.75 (95.2)	6 (2.724)
60	8.69 (220.7)	14.19 (360.4)	7.38 (187.5)	4.21 (106.9)	10 (4.54)
100	9.13 (231.9)	18.81 (477.8)	7.38 (187.5)	4.23 (107.4)	14 (6.356)
200	16.00 (406.4)	24.75 (628.7)	11.25 (285.8)	6.14 (156.0)	48 (21.792)
400	23.00 (584.2)	44.75 (1136.7)	12.63 (320.8)	7.27 (184.7)	110 (49.94)
600	24.00 (609.6)	52.25 (1327.2)	14.25 (362.0)	8.95 (227.3)	145 (65.83)
NEMA 3R					
30	6.38 (162.1)	10.81 (274.6)	6.88 (174.8)	3.75 (95.2)	6 (2.724)
60	8.69 (220.7)	14.38 (365.3)	7.38 (187.5)	4.21 (106.9)	10 (4.54)
100	9.13 (231.9)	19.25 (489.0)	7.38 (187.5)	4.23 (107.4)	14 (6.356)
200	16.00 (406.4)	25.50 (647.7)	11.25 (285.8)	6.14 (156.0)	55 (24.97)
400	23.00 (584.2)	45.19 (1147.8)	12.63 (320.8)	7.27 (184.7)	115 (52.21)
600	24.00 (609.6)	52.70 (1338.6)	14.25 (362.0)	8.95 (227.3)	150 (68.1)

NEMA 1-3R 200–600A General-Duty Non-Fusible and Fusible Single-Throw**Notes**

- ① Dimensions are for estimating purposes only.
 ② Figure is not applicable to plug fuse.