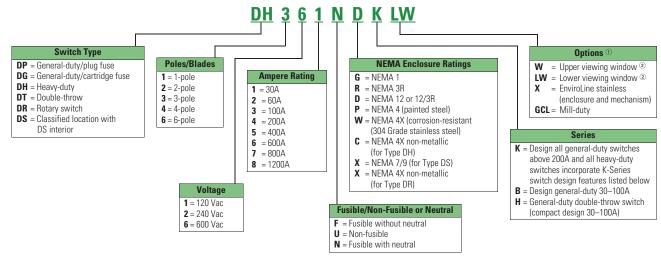
Catalog Number Selection

Safety Switch



Notes

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



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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.

Features, Benefits and Functions

General-Duty (Cartridge Fuse)

- Ample wire bending space provides for easier installation
- Visible double-break quickmake, 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 singlethrow 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



DP221NGB

Product Selection

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

	Maximum Horsepower Ratings ①						NEMA 1	NEMA 3R
System	Ampere Rating	Fuse Type Provision	Single-Ph 120V	ase AC 240V	Three-Phase AC 240V	DC 250V	Enclosure Indoor Catalog Number	Enclosure Rainproo Catalog Number
Plug Type—T	wo-Wire (O	ne Blade, On	e Fuse, S/N	l) — 120 Vac ②				
N/S	30	Plug (Type S, T or W)	1/2–2	_	_	_	DP111NGB ^②	_
Plug Type-T	hree-Wire (Two Blades,	Two Fuses,	S/N)-120/240) Vac			
N/S	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 Ty	pe — Two-F	Pole Two-Wi	re (Two Blade	s, 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	Н	_	15	25-60	_	DG224FGK 46	DG224FRK 45
	400	Н	_	_	50-125	_	DG225FGK 46	DG225FRK 46
	600	Н	_	_	75–200	_	DG226FGK 45	DG226FRK 45
artridge Ty	oe-Three	-Wire (Two I	Blades, Two F	uses, S/N)-120	/240 Vac			
NS	30	Н	_	1-1/2-3	3-7-1/2 6	_	DG221NGB @	DG221NRB @
	60	Н	_	3–10	7-1/2-15 ®	_	DG222NGB ②	DG222NRB ②
	100	Н	_	7-1/2-15	15–30 ®	_	DG223NGB ②	DG223NRB ②
	200	Н	_	15	25-60 6	_	DG224NGK	DG224NRK
	400	Н	_	_	50-125 [©]	50	DG225NGK	DG225NRK

75-200 ®

DG226NGK

DG226NRK

Notes

① Maximum hp ratings apply only when dual element time delay fuses are used.

Н

- @ 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.

600

- Solid neutral bars are not included. Order separately from table on Page V2-T1-14.
- (§ 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)

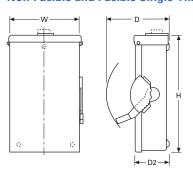
Plug Fuse, 120, 120/240V, Single-, Two-Pole Solid Neutral, Single-Throw

Ampere	NEMA 1							
Rating	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)

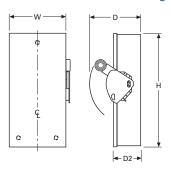
NEMA 1-3R 30–100A General-Duty Non-Fusible and Fusible Single-Throw ®



General-Duty, Fusible, 240V, Three-Pole Solid Neutral, Single-Throw $\ensuremath{\mathfrak{O}}$

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.