

Double-Throw, continued

Ampere Rating	Catalog Number Eaton	General Electric	Siemens	Square D
Fusible, Three-Pole, Three-Wire, 600 Vac, NEMA 3R				
30	N/A	N/A	N/A	DT361RB
60	N/A	N/A	N/A	DT362RB
100	DT363FRK	N/A	DTF363R	DT363RB
200	DT364FRK	N/A	DTF364R	DT364RB
400	DT365FRK	N/A	FR355DTK	N/A
Non-Fusible, Two-Pole, Two-Wire, 600 Vac, NEMA 3R				
30	N/A	N/A	N/A	N/A
60	N/A	N/A	N/A	82342RB
100	N/A	N/A	N/A	82343RB
200	DT264URK	N/A	DTNF264R	82344RB
400	DT265URK	N/A	DTNF265R	92345RB
600	DT266URK	N/A	NFR256DTK	92346RB
Non-Fusible, Three-Pole, Three-Wire, 600 Vac, NEMA 3R				
30	DT361URK	N/A	DTNF361R	DTU361RB
60	DT362URK	N/A	DTNF362R	DTU362RB
100	DT363URK	N/A	DTNF363R	DTU363RB
200	DT364URK	N/A	DTNF364R	DTU364RB
400	DT365URK	N/A	DTNF365R	92345RB
600	DT366URK	N/A	DTNF366R	92346RB
800	DT367URK	N/A	DTNF367R	N/A
Non-Fusible, Four-Pole, Four-Wire, 600 Vac, NEMA 3R				
30	DT461URK	N/A	NFR451DTK	N/A
60	DT462URK	N/A	NFR452DTK	92442RB
100	DT463URK	N/A	NFR453DTK	92443RB
200	DT464URK	N/A	NFR454DTK	92444RB
400	DT465URK	N/A	NFR455DTK	92445R
600	DT466URK	N/A	NFR456DTK	92446R
800	DT467URK	N/A	NFR457DTK	N/A
Non-Fusible, Six-Pole, Six-Wire, 600 Vac, NEMA 3R				
30	DT661URK	N/A	NFR651DTK	N/A
60	DT662URK	N/A	NFR652DTK	N/A
100	DT663URK	N/A	NFR653DTK	N/A
Non-Fusible, Two-Pole, Two-Wire, 240 Vac, NEMA 12 ^①				
30	DT361UDK	N/A	DTNF361J	H92251
60	DT362UDK	N/A	DTNF362J	H82252
100	DT363UDK	N/A	DTNF363J	H82253
200	DT364UDK	N/A	DTNF364J	H82254
400	DT365UDK	N/A	NF355HDTK	H92255
Non-Fusible, Three-Pole, Three-Wire, 240 Vac, NEMA 12 ^①				
30	DT361UDK	N/A	DTNF361J	H92351
60	DT362UDK	N/A	DTNF362J	DTU362AWK
100	DT363UDK	N/A	DTNF363J	DTU363AWK
200	DT364UDK	N/A	DTNF364J	DTU364AWK
400	DT365UDK	N/A	NF355HDTK	H92355
600	N/A	N/A	N/A	H92356
Non-Fusible, Four-Pole, Four-Wire, 240 Vac, NEMA 12				
30	N/A	N/A	N/A	H92451
60	N/A	N/A	N/A	DTU462AWK
100	N/A	N/A	N/A	DTU463AWK
200	N/A	N/A	N/A	DTU464AWK
400	N/A	N/A	N/A	H92455
600	N/A	N/A	N/A	H92456

Double-Throw, continued

Ampere Rating	Catalog Number Eaton	General Electric	Siemens	Square D
Non-Fusible, Two-Pole, Two-Wire, 600 Vac, NEMA 12				
30	DT361UDK	N/A	DTNF361J	N/A
60	DT362UDK	N/A	DTNF362J	H82342
100	DT363UDK	N/A	DTNF363J	H82343
200	DT364UDK	N/A	DTNF364J	H82344
400	DT365UDK	N/A	NF355HDTK	H92345
600	N/A	N/A	N/A	H92346
Non-Fusible, Three-Pole, Three-Wire, 600 Vac, NEMA 12				
30	DT361UDK	N/A	DTNF361J	N/A
60	DT362UDK	N/A	DTNF362J	DTU362AWK
100	DT363UDK	N/A	DTNF363J	DTU363AWK
200	DT364UDK	N/A	DTNF364J	DTU364AWK
400	DT365UDK	N/A	NF355HDTK	H92345
600	N/A	N/A	N/A	H92346
Non-Fusible, Four-Pole, Four-Wire, 600 Vac, NEMA 12				
30	N/A	N/A	N/A	N/A
60	N/A	N/A	N/A	DTU462AWK
100	N/A	N/A	N/A	DTU463AWK
200	N/A	N/A	N/A	DTU464AWK
400	N/A	N/A	N/A	H92445
600	N/A	N/A	N/A	H92446
Non-Fusible, Two-Pole, Two-Wire, 600 Vac, NEMA 4X				
30	DT361UWK	N/A	DTNF361S	N/A
60	DT362UWK	N/A	DTNF362S	82342DS
100	DT363UWK	N/A	DTNF363S	82343DS
200	DT364UWK	N/A	DTNF364S	82344DS
400	DT365UWK	N/A	NF355SSDTK	N/A
Non-Fusible, Three-Pole, Three-Wire, 600 Vac, NEMA 4X				
30	DT361UWK	N/A	DTNF361S	N/A
60	DT362UWK	N/A	DTNF362S	DTU362DS
100	DT363UWK	N/A	DTNF363S	DTU363DS
200	DT364UWK	N/A	DTNF364S	DTU364DS
400	DT365UWK	N/A	NF355SSDTK	N/A
Non-Fusible, Four-Pole, Four-Wire, 600 Vac, NEMA 4X				
30	N/A	N/A	N/A	N/A
60	N/A	N/A	N/A	DTU462DS
100	N/A	N/A	N/A	DTU463DS
200	N/A	N/A	N/A	DTU464DS
Fusible, Three-Pole, Three-Wire, 600 Vac, NEMA 4X				
30	DT361FWK	N/A	F351SSDTK	N/A
60	DT362FWK	N/A	F352SSDTK	N/A
100	DT363FWK	N/A	F353SSDTK	N/A
200	DT364FWK	N/A	F354SSDTK	N/A
400	DT365FWK	N/A	F355SSDTK	N/A

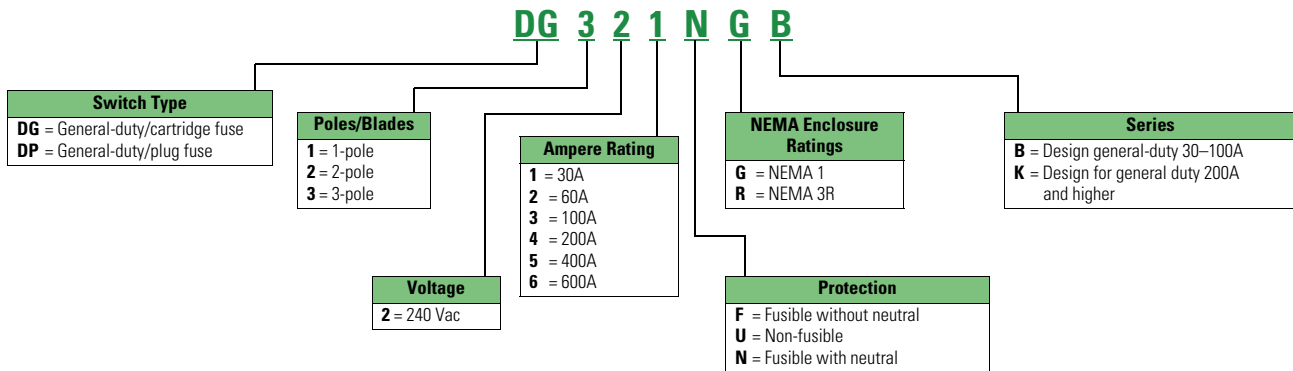
Notes

^① Eaton and Siemens switches shown are 600V switches.

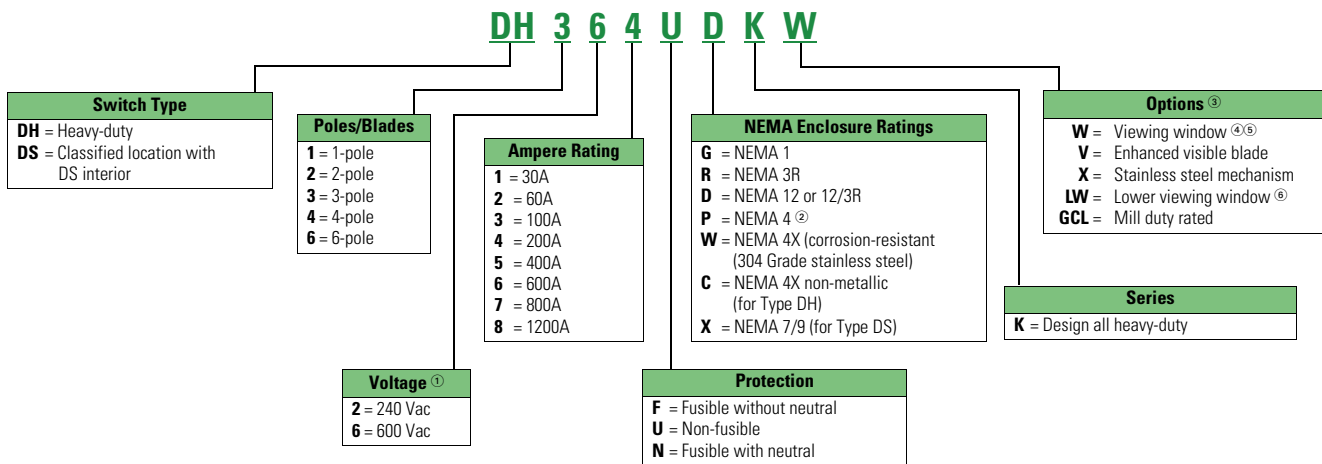
Always verify the number of poles and wires required since catalog numbers may appear in multiple tables.

Catalog Number Selection

General-Duty



Heavy-Duty



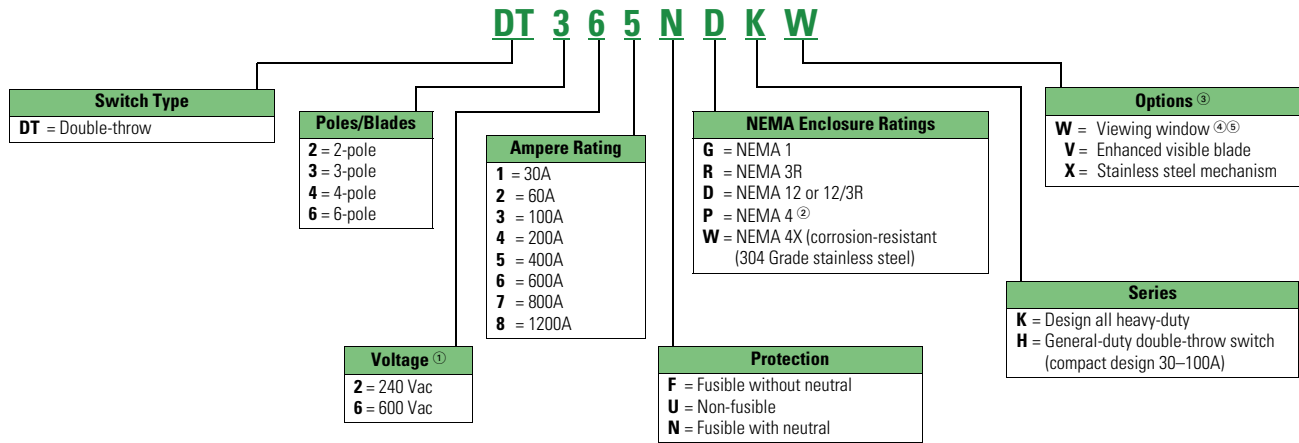
Notes

- 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.

Double-Throw



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.

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.

Options and Accessories

Safety Switches

	Description	Catalog Number
	Neutral Kits	
	30A DG	DG030NB
	60–100A DG	DG100NB
	200A DG, DH (NEMA 1, 3R enclosures)	DG200NK
	30–60A DH	DH030NK
	100A DH	DH100NK
	200A DH (NEMA 4X, 12 enclosures)	DH200NK
	400A DG, DH	DS400NK
	600A DG, DH	DS600NK
	400A fusible DT, 800–1200A DH	DS800NK
	30–100A DT	DT100NK
	200A DT	DT200NK
	400A non-fusible DT	DT400NK
	600A non-fusible DT	DT600NK
	600A fusible DT, 800A DT	DT800NK
1200A DT	DT1200NK	
	Ground Lug Kits Factory-installed ground lug is supplied in all safety switches	
	30–100A DG	DG030GB
	30–100A DH, DT ①	DS100GK
	200A DG, DH, DT	DS200GK
	400–600A DG, 400–1200A DH, 400–1200A DT	DS468GK
	Switching Neutral Bonding Kits ②	
	30–100A DT, 3P, 4P non-fusible	DT100BK
	200A DT, 3P, 4P non-fusible	DT200BK
	400A DT, 3P, 4P non-fusible	DT400BK
	600A DT, 3P, 4P non-fusible	DT600BK
	800–1200A DT, 3P, 4P non-fusible	DT800BK
	Control Pole Kit (For 2P, 3P Switches)	DS16CP
	400–600A DG, 30–1200A DH, 30–1200A DT Multiple key options are included with the control pole kit. Standard keys provide late-make, early-break functionality. Flanged key provides same make, same break functionality.	
	Auxiliary Contact Kits Auxiliary contact kits are not field installable on shunt trip safety switches	
	All switches (except 30–100A DG) 1NO/1NC	DS200EK1 ③
	All switches (except 30–100A DG) 2NO/2NC	DS200EK2 ③
	NEMA 7/9 switches (30–100A) 1NO/1NC	178C265G05
	NEMA 7/9 switches (30–100A) 2NO/2NC	178C265G06
	Copper Lug Kits	
	30A DH, DT ④	DS16CL
	60A DH, DT ④	DS26CL
	100A DH, DT ④	DS36CL
	200A DH ④	DS46CL
	400A DH (NEMA 4, 4X, 12 enclosures) ⑤	DS56CL
	600–800A DH (NEMA 4, 4X, 12 enclosures) ⑤	DS66CL

Safety Switches, continued

	Description	Catalog Number
	Crimp Lug Pad Kit (NEMA 4, 4X, 12 Enclosures Only)	
	400–600A DH ④	DS56CK
	800A DH ⑤	DS76CK
	400–800A neutral DH ②	DS800CNK
	Fuse Puller Kits	
	30A DH ④	DS30FP
	60A DH ④	DS60FP
	100A DH ④	DS100FP
	200A DH ④	DS200FP
	"J" Fuse Adapter Kits ⑥⑦	
	60A 240V DH ④	DS22JK
	60A DH, DT and receptacle switches ④	DS26JK
	400A 600V DT ⑧	DT400JK
	600A 240–600V DH, 600A DG ⑤	DS600JK
	"R" Fuse Adapter Kits ④	
	30A DG	DG030RB
	100A DG	DG100RB
	30A 240V DH, DT	DS12FK
	30A 600V DH, DT, 60A 240V DH, DT, 60A DG	DS16FK
	60A 600V DH, DT	DS26FK
	100A 240–600V DH, DT	DS36FK
	200A 240–600V DH, DT, 200A DG	DS46FK
	400A 240–600V DH, 240V DT, 400A DG	DS56FK
	600A 240–600V DH, DT, 600A DG	DS66FK
		"T" Fuse Adapter Kits
200A 240V DH ④		DS426TK
200A 600V DH ④		DS466TK
400A 240V DG, DH, DT ⑤		DS526TK
400A 600V DH ⑤		DS566TK
600A 240V DG, DH ⑤		DS626TK
600A 600V DH ⑤		DS666TK
600A 240V ⑤		DT626TK
600A 600V ⑤		DT666TK
800A 240V DH ⑤		DS726TK
800A 600V DH, DT ⑤	DS766TK	
	Miscellaneous Kits	
	Hookstick handle	DH800HSH
	Lubricating grease for safety switch blades and contacts (each kit contains three 30 cc tubes of lubricating grease)	DSLUBEKIT

Notes

- ① Ground bar kit is not listed on device publications.
- ② Order one kit per switch.
- ③ For duty ratings, see table on following page.
- ④ Order one kit for three poles.
- ⑤ Order one kit for each pole.
- ⑥ 30A Class J available as factory option only.
- ⑦ If Class J fuse kit is not listed, then switch will accept Class J fusing by repositioning either fuse base or fuse clips. No drilling required.
- ⑧ Order one kit for six poles.

Accessories are not applicable to NEMA 7/9 switches unless indicated otherwise.

Auxiliary Contact Rating**AC Pilot Duty Ratings**

Catalog Number	Description	Volts	Break (Amperes)	Make (Amperes)
DS200EK1	1NO-1NC	110	15.0	40.0
DS200EK1	1NO-1NC	220	10.0	20.0
DS200EK1	1NO-1NC	440	6.0	10.0
DS200EK1	1NO-1NC	600	5.0	8.0
DS200EK2	2NO/2NC	110	3.0	30.0
DS200EK2	2NO/2NC	220	1.5	15.0
DS200EK2	2NO/2NC	440	1.0	8.0
DS200EK2	2NO/2NC	600	0.8	6.0

DC Pilot Duty Ratings

Catalog Number	Description	Volts	Single Throw (Amperes)	Double Throw (Amperes)
DS200EK1	1NO-1NC	115	2.0	0.5
DS200EK1	1NO-1NC	230	0.5	0.2
DS200EK1	1NO-1NC	600	0.1	0.02
DS200EK2	2NO/2NC	115	1.0	0.2
DS200EK2	2NO/2NC	230	0.3	0.1
DS200EK2	2NO/2NC	600	0.1	—

Approximate Dimensions in Inches (mm)

DS050MH**Myers Type Hubs**

NEMA 3R (400A and above)
NEMA 4, 4X (stainless steel), 12

Catalog Number	Conduit Size
DS050MH	0.50 (12.7)
DS075MH	0.75 (19.1)
DS100MH	1.00 (25.4)
DS125MH	1.25 (31.8)
DS150MH	1.50 (38.1)
DS200MH	2.00 (50.8)
DS250MH	2.50 (63.5)
DS300MH	3.00 (76.2)
DS350MH	3.50 (88.9)
DS400MH	4.00 (101.6)
DS500MH	5.00 (127.0)

DS075H1**Plate Type Hubs**

For NEMA 3R enclosures (up to 200A)

Group 1

General-Duty, Heavy-Duty,
Double-Throw Through 100A

Catalog Number	Conduit Size
DS075H1	0.75 (19.1)
DS100H1	1.00 (25.4)
DS125H1	1.25 (31.8)
DS150H1	1.50 (38.1)
DS200H1	2.00 (50.8)

Group 2

General-Duty, Heavy-Duty,
Double-Throw—200A

Catalog Number	Conduit Size
DS200H2	2.00 (50.8)
DS250H2	2.50 (63.5)
DS300H2	3.00 (76.2)
—	—
—	—

Catalog number **DS900AP** adapter kit permits installation of Group 1 hubs on 200A type general-duty, heavy-duty and double-throw switches.

Modifications—Flex Center

Introduction

The Switching Device Flex Center is a special facility at the site of Eaton's Cleveland, Tennessee plant that is dedicated to providing customized safety switches and enclosed breakers that meet customer's challenging applications.

Common Flex Center Design Offerings

Modification	Catalog Suffix	Description
Custom paint	(varies)	Special paint colors are available such as red, orange, yellow, green, black, white. Other colors may be available upon request. Custom color is applied over the standard ANSI-61 gray finish.
Nameplates	-00NP	Plastic or phenolic nameplates are available. Up to three lines of text, 25 characters per line. Standard offering is white with black letters. Custom colors and sizes available upon request. Specify text at order entry.
Lock on provisions	-00LO	Available on heavy-duty and double-throw safety switches. Provision will accept a single lock.
Trapped key interlock	-00TK	Available on heavy-duty and double-throw safety switches. Trapped key systems are used on safety switches to prevent unauthorized operations or to predetermine a series of power transfers by an authorized operator.
Upper viewing window	W	An upper viewing window is centered over the switching contacts to provide visual verification of ON/OFF status. Available on NEMA 12/3R and NEMA 4X stainless steel heavy-duty and double-throw safety switches. Note: 30–100 A switches are now provided with a full view cover window for both blade and blown fuse viewing.
Lower viewing window	LW	A lower viewing window is centered over the fuses and provides visual verification of blown fuse indicators. Available on 200–1200 A NEMA 12/3R and NEMA 4X stainless steel heavy-duty and double-throw safety switches. Available for fusible switches only. Note: 30–100 A switches are now provided with a full view cover window for both blade and blown fuse viewing.
Neutral assemblies	N	Factory install of field neutral accessory kits. Add Suffix N on non-fusible switches, or replace the 6th character "F" with "N" on fusible switches.
Class "R" fuse clips	5 or 6	Factory installed Class R fuse clips/provisions. Add Suffix 5 for 240 V switches, and Suffix 6 for 600 V switches. Available on 30–600 A safety switches.
Class "T" fuse clips	T	Factory installed Class T fuse clips/provisions. Available on 200–1200 A safety switches.
Class "J" fuse clips	J	Factory installed Class J fuse clips/provisions. Available on 30–600 A safety switches. Note: Field modification kits are not available for 30 A heavy-duty safety switches. 30 A switches requiring Class J fusing must be ordered factory installed with J suffix.
Fungus proofing	-00FP	All non-metallic components of the switch are coated with a moisture and fungus-resistant varnish. The inhibitor used meets military specification: MIL-V-173C for MOISTURE AND FUNGUS-RESISTANT TREATMENT. The treated switch meets military specification MIL-T-152E for MOISTURE AND FUNGUS-RESISTANT TREATMENT OF COMMUNICATIONS, ELECTRONICS, AND ASSOCIATED EQUIPMENT. Not UL Listed.
Fuse pullers	FE	Factory installed fuse pullers. Note: Standard NEMA 12/3R and 4X switches 30–200 A are supplied with fuse pullers from the factory.
Crimp lug pads	-00CK	Factory installed crimp lug pad kits. Available on 400–800 A safety switches. Crimp lugs are not included. Note: Standard heavy-duty Type DH switches 30–200 A are adaptable to crimp lugs; simply remove the box lugs.
Copper lugs	-00CL	Factory installed copper lug kits. Available on 30–800 A safety switches.
Ground lug kits factory installed	G	Factory installed ground lug kits. Provides additional ground lug capacity when compared to ground lugs that come with standard safety switches. Available on 30–1200 A safety switches.
Custom lugs	-000L	Customer-specified lug arrangements are available on heavy-duty and double-throw safety switches.
Auxiliary contacts	2 or 3	Factory installed auxiliary contact kits (DS200EK1 or DS200EK2). Auxiliary contacts are Early-Make/Early-Break operation. To specify 1NO/1NC contact, add Suffix 2. To specify 2NO/2NC contacts, add Suffix 3.
Control pole	-00CP	The K-Series control pole provides one NO contact. It mounts in the exact location as the neutral block using the same pre-drilled holes. This is directly connected to the power pole operating shaft. Direct connection and visible blades provide more secure electrical interlocking than handle linkage operation of a snap/switch type interlock. This reliability meets the requirements of many specifications for four-pole switches when the fourth pole is required for secure electrical interlocking. This control pole provides Same-Make/Same-Break operation.
Control pole with offset	-0CP2	Same as above except this control pole provides Late-Make/Early-Break operation. Both Control Pole options are provided when you purchase the DS16CP field kit.
Switching neutral double throws	SN	UL Listed for three-pole and four-pole non-fusible double-throw safety switches. Switching neutrals are required for separately derived systems when bonding the neutral of the generator to a grounding system at the generator.
Surge protection	(varies)	Factory installed Eaton Type 1 (SP1 series) or Type 2 (CVX series) surge protective device products. SPD installed and wired to load side of disconnect.

Additional Flex Center Design Offerings

- Left-hand design (30–200A)
- Cover controls
- 200% neutrals
- Seam-welded stainless steel
- Quick Connect products with Cam-Lok and Posi-Lok receptacles
- Custom enclosures
- 316 grade stainless steel
- Mill duty switches
- Irrigation switches
- Fuses installed
- Hook stick handles (heavy-duty switches only)
- Custom labels
- Custom mounting
- Pad-mount designs
- Non-standard receptacles
- Enhanced visible blade
- Voltage indicators

Contact

For more information on these or any other modifications, please contact the Switching Device Flex Center at 1-888-329-9272, email FlexSwitches@eaton.com or visit Eaton.com/FlexCenter.

Technical Data and Specifications

Standard Lug Capacities

Description	Minimum Wire Size	Maximum Wire Size	Wire Type
30A DP	#14	#10	CU
	#12	#10	AL
30A DG	#14	#6	CU/AL
30A DH, DT	#14	#2	CU/AL
60A DG	#14	#1/0	CU/AL
60A DH, DT	#14	#2	CU/AL
100A DG ^①	#14	#1/0	CU/AL
100A DH, DT	#14	#1/0	CU/AL
200A DG, DT	#6	250 kcmil	CU/AL
200A DH Type 1 and 3R	#6	250 kcmil	CU/AL
200A DH Type 4X and 12	#6	300 kcmil	CU/AL
400A DG, DH, DT ^②	(2) #1/0	(2) 300 kcmil	CU/AL or ^③
	(1) #1/0	(1) 750 kcmil	CU/AL
600A DG, DH	(1) #2	(1) 600 kcmil	CU/AL and ^④
	(1) #1/0	(1) 750 kcmil	CU/AL
600A non-fusible DT	(2) 250	(2) 500 kcmil	CU/AL
800A DH	(4) #1/0	(4) 750 kcmil	CU/AL
600A fusible DT, 800A DT	(3) #250	(3) 500 kcmil	CU/AL
1200A DH, DT	(4) #1/0	(4) 750 kcmil	CU/AL
Copper-Bodied Lugs ^⑤			
30A CU	#14	#6	CU
60A CU	#14	#4	CU
100A CU	#6	#1/0	CU
200A CU	#6	250 kcmil	CU
400A CU Type 4, 4X, and 12	#1/0	500 kcmil	CU
600-800A CU Type 4, 4X and 12	(2) #1/0	(2) 500 kcmil	CU

Notes

- ① The maximum size aluminum or copper-clad wire allowable for applications where the conductor enters or leaves the enclosure through the wall opposite its terminal is #1 gauge.
- ② Applicable to DG/DH non-fused NEMA 1 and 3R only. The maximum size wire allowable for applications where the conductor enters or leaves the enclosure through the wall opposite its terminal is 250 kcmil.
- ③ Single barrel lug that accepts one or two cables per phase as detailed above.
- ④ Double barrel lug that accepts 2 cables per phase as detailed above.
- ⑤ No Copper-Bodied Lugs are available for 1200A switches. No Copper-Bodied Lugs are available for larger than 500 kcmil cables. No Copper-Bodied Lugs are available for 400–800A NEMA 1 or NEMA 3R switches.

Although certain lug capacities are larger than required, only minimum wire bending space is provided per the requirements noted in NEC®. A factory-installed ground lug is supplied in all heavy-duty safety switches.

Alternate Lug Capacities ^①

Description	Minimum Wire Size	Maximum Wire Size	Wire Type	Catalog Number Suffix	Line/Load ^②
30A, 60A, 100A DH fusible	(3) #14	(3) #2	CU/AL	-00LA ^③	
30A, 60A, 100A DH	(3) #14	(3) #2	CU/AL	-LALN ^③	Line lugs only
30A, 60A, 100A DH fusible	(3) #14	(3) #2	CU/AL	-LALD ^③	Load lugs only
30A, 60A, 100A DH fusible	(2) #14	(2) #2/0	CU/AL	-00LB ^③	
30A, 60A, 100A DH	(2) #14	(2) #2/0	CU/AL	-LBLN ^③	Line lugs only
30A, 60A, 100A DH fusible	(2) #14	(2) #2/0	CU/AL	-LBLD ^③	Load lugs only
30A, 60A DH	#14	#1/0	CU/AL	-LSE3 ^④	
100A DH Type 1 and 3R	#6	250 kcmil	CU/AL	-LSE4 ^④	
100A DH Type 4X and 12	#6	300 kcmil	CU/AL	-LSE4 ^④	
200A DH	(2) #1/0	(2) 300 kcmil	CU/AL or ^⑤	-LSE5 ^⑥	
	(1) #1/0	(1) 750 kcmil	CU/AL		
400A DH	(1) #2	(1) 600 kcmil	CU/AL and ^⑦	-LSE6 ^⑧	
	(1) #1/0	(1) 750 kcmil	CU/AL		
600A DH	(4) #1/0	(4) 750 kcmil	CU/AL	-LSE7 ^⑨	

Notes

- ① Alternate Lugs are available as Factory Installed options only, through the Switching Device Flex Center. Field Kits are not available.
- ② The Alternate Lugs will be provided on both Line and Load side, unless otherwise noted.
- ③ Uses the 100A switch enclosure and dimensions.
- ④ Uses the 200A switch enclosure and dimensions.
- ⑤ Single barrel lug that accepts one or two cables per phase as specified in table.
- ⑥ Uses the 400A switch enclosure and dimensions.
- ⑦ Double barrel lug that accepts two cables per phase as specified in table.
- ⑧ Uses the 600A switch enclosure and dimensions.
- ⑨ Uses the 800A switch enclosure and dimensions.

Although certain lug capacities are larger than required, only minimum wire bending space is provided per the requirements noted in NEC[®].

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

Standard Ground Lug Capacities

Description	Minimum Wire Size	Maximum Wire Size	Wire Type
30, 60, 100A DG	#14	#4	CU/AL
200A DG	(2) #14	(2) #2	CU/AL
400, 600A DG	(2) #6	(2) 250 kcmil	CU/AL
30, 60, 100A DH	#14	#4	CU/AL
200A DH Type 1 and 3R	(2) #14	(2) #2	CU/AL
200A DH Type 4X and 12	#14	#4	CU/AL
400A, 600A, 800A, 1200A DH	(2) #6	(2) 250 kcmil	CU/AL
30, 60, 100A DT	(3) #14	(3) #2	CU/AL
200A DT	(3) #14	(3) #2	CU/AL
400A DT	(3) #6	(3) 250 kcmil	CU/AL
600A, 800A, 1200A DT	(4) #6	(4) 250 kcmil	CU/AL

Additional Grounding (Suffix G) Lug Capacities ^①

Description	Minimum Wire Size	Maximum Wire Size	Wire Type
30, 60, 100A DG	(7) #14	(7) #4	CU/AL
200A DG	(3) #14	(3) #2	CU/AL
400, 600A DG	(4) #6	(4) 250 kcmil	CU/AL
30, 60, 100A DH	(7) #14	(7) #4	CU/AL
200A DH Type 1 and 3R	(3) #14	(3) #2	CU/AL
200A DH Type 4X and 12	(2) #14	(2) #2	CU/AL
400A, 600A, 800A, 1200A DH	(4) #6	(4) 250 kcmil	CU/AL
30, 60, 100A DT	(7) #14	(7) #4	CU/AL
200A DT	(5) #14	(5) #2	CU/AL
400A DT	(6) #6	(6) 250 kcmil	CU/AL
600A, 800A, 1200A DT	(6) #6	(6) 250 kcmil	CU/AL

Ground Lug Kit Capacities

Ground Lug Kit	Minimum Wire Size	Maximum Wire Size	Wire Type
DG030GB	#14	#4	CU/AL
DS100GK	(7) #14	(7) #4	CU/AL
DS200GK	(2) #14	(2) #2	CU/AL
DS468GK	(2) #6	(2) 250 kcmil	CU/AL

Note

- ^① Additional Grounding is available as a Factory Modification, through the Switching Device Flex Center. Add Suffix G to the end of switch catalog number.

Neutral Lug Kit Capacities

Neutral Kit	Minimum Wire Size	Maximum Wire Size	Wire Type
DG030NB	(2) #14	(2) #4	CU/AL
DG100NB	(3) #14	(3) #1/0	CU/AL
DG200NK	(2) #6 (2) #14	(2) 300 kcmil (2) #2	CU/AL and
DH030NK	(4) #14	(4) #2	CU/AL
DH100NK	(2) #14 (2) #14	(2) #2 (2) #1/0	CU/AL and
DH200NK	(2) #14 (2) #6	(2) #2 (2) 300 kcmil	CU/AL and
DS400NK	(2) #1/0 (4) #2 (3) #6	(2) 750 kcmil (4) 600 kcmil (3) 250 kcmil	CU/AL or and
DS600NK	(2) #1/0 (2) #2 (3) #6	(2) 750 kcmil (2) 600 kcmil (3) 250 kcmil	CU/AL and
DS800NK	(8) #1/0 (3) #6	(8) 750 kcmil (3) 250 kcmil	CU/AL and
DT100NK	#14 (3) #14	#2 (3) #1/0	CU/AL and
DT200NK	#14 (3) #6	#2 (3) 250 kcmil	CU/AL and
DT400NK	(7) #6	(7) 250 kcmil	CU/AL
DT600NK	#6 (6) 250 kcmil	250 kcmil (6) 500 kcmil	CU/AL and
DS800NK	(3) #6 (8) #1/0	(3) 250 kcmil (8) 750 kcmil	CU/AL and
DT800NK	(2) #6 (9) 250 kcmil	(2) 250 kcmil (9) 500 kcmil	CU/AL and
DT1200NK	(3) #6 (12) #1/0	(3) 250 kcmil (12) 750 kcmil	CU/AL and

General-Duty**Short-Circuit Ratings Using Class “R,” “J” or “T” Fusing Where Applicable** ^①

Ampere Rating	Short-Circuit Ratings (Amperes)	
	Type 1	Type 3R
30	100k at 240V	100k at 240V
60	100k at 240V	100k at 240V
100	100k at 240V	100k at 240V
200	100k at 240V	100k at 240V
400	100k at 250V	100k at 250V
600	100k at 250V	100k at 250V

Shunt Trip Safety Switch**Short-Circuit Ratings Using Class “R,” “J,” “L” or “T” Fusing Where Applicable** ^②

Ampere Rating	Short-Circuit Ratings (Amperes)	
	480V	600V
30	200 kAIC	200 kAIC
60	200 kAIC	200 kAIC
100	200 kAIC	200 kAIC
200	200 kAIC	100 kAIC
400	200 kAIC	100 kAIC
600	200 kAIC	100 kAIC
800	200 kAIC	200 kAIC

Heavy-Duty**Short-Circuit Ratings Using Class “R,” “J,” “L” or “T” Fusing Where Applicable** ^①

Ampere Rating	Short-Circuit Ratings (Amperes)			
	Type 1	Type 3R	Type 12	Type 4 and 4X
30	200k at 600V	200k at 600V	200k at 600V	200k at 600V
60	200k at 600V	200k at 600V	200k at 600V	200k at 600V
100	200k at 480V 100k at 600V	200k at 480V 100k at 600V	200k at 600V	200k at 600V
200	200k at 600V	200k at 600V	200k at 600V	200k at 600V
400	200k at 480V 100k at 600V	200k at 480V 100k at 600V	200k at 480V 100k at 600V	200k at 480V 100k at 600V
600	200k at 480V 100k at 600V	200k at 480V 100k at 600V	200k at 480V 100k at 600V	200k at 480V 100k at 600V
800 ^③	200k at 480V 100k at 600V	200k at 480V 100k at 600V	200k at 480V 100k at 600V	200k at 480V 100k at 600V
1200 ^③	200k at 600V	200k at 600V	200k at 600V	200k at 600V

Double Throw**Short-Circuit Ratings Using Class “R,” “J,” “L” or “T” Fusing where Applicable** ^{③④⑤⑥⑦}

Ampere Rating	Short-Circuit Ratings (Amperes) (600V)			
	Type 1	Type 3R	Type 12	Type 4 and 4X
30	100k	100k	100k	100k
60	100k	100k	100k	100k
100	100k	100k	100k	100k
200	100k	100k	100k	100k
400	100k	100k	100k	100k
600	100k	100k	100k	100k
800	100k	100k	—	—
1200	100k	100k	—	—

Notes

- ① Class “H” fuse clips supplied as standard for 30–600A. Rated at 10,000A rms symmetrical when using Class “H” fuses.
- ② Non-fusible values are based on combination rating with upstream device (see TD00801005E).
- ③ Class “L” fuse connectors supplied as standard for 800A and 1200A.
- ④ Class “H” fuse clips supplied as standard for 30–600A, except Class “T” for 400A at 600V and 600A at 240V. Rated at 10,000A rms symmetrical when using Class “H” fuses.
- ⑤ Safety switch short-circuit ratings are applicable to AC only.
- ⑥ Safety switch I^2t and I_p values are identical to UL maximum acceptable I^2t and I_p values for the corresponding class fuse.
- ⑦ Table above is not applicable to the compact design shown on **Page V2-T1-47**. The compact design is suitable for use on a circuit capable of delivering not more than 10,000 rms symmetrical amperes.

Short-Circuit Ratings of Non-Fusible Switches

The UL listed short-circuit ratings for Eaton non-fusible switches are based on the switches being properly protected by overcurrent protective devices. For applications that require a UL listed short-circuit rating of 10,000 rms symmetrical amperes or less, an Eaton non-fusible switch must be properly protected by any overcurrent protective device rated no greater than the ampere rating of the switch. For applications that require a UL listed short-circuit rating of greater than 10,000 rms symmetrical amperes, an Eaton non-fusible switch

must be properly protected by the appropriate class and size fusing noted. Otherwise, this non-fusible switch must be replaced with an Eaton fusible switch that uses the appropriate fusing required. Molded case circuit breaker protection of non-fusible Eaton switches for applications that require a short-circuit rating of greater than 10,000 rms symmetrical amperes has been evaluated and is summarized below. Refer to the reference tables for typical Eaton fusible switch UL listed short-circuit ratings.

UL Recognized Safety Switch/Circuit Breaker Series-Connected Ratings

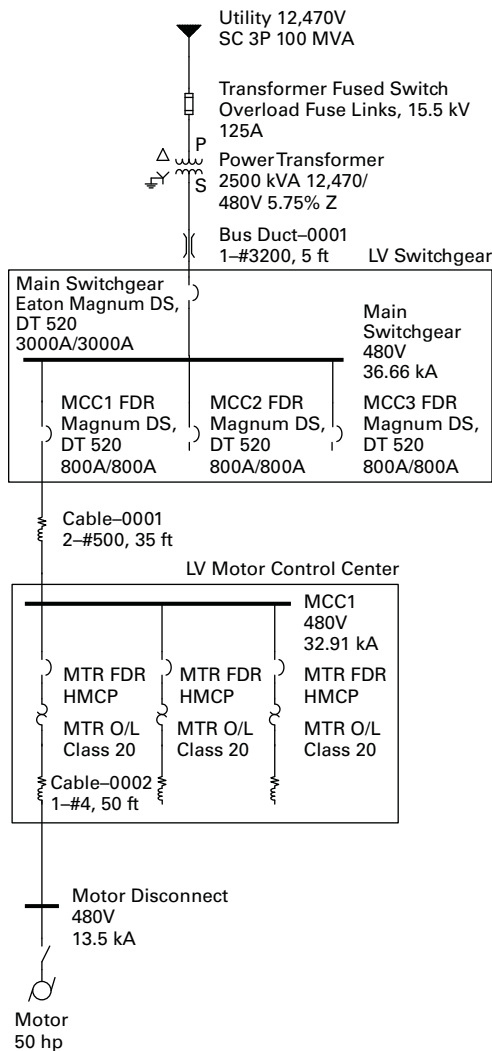
Safety Switch Ampere Rating	Maximum System Voltage AC	Circuit Breaker Maximum Short-Circuit Rating (rms Symmetrical)	Circuit Breaker Frame(s)
30 and 60	600	25,000	FDC, HFD, HFDE, EGH
		18,000	FD, EGE
		14,000	FDB
100	600	25,000	FDC, HFD, HFDE, EGH
		18,000	FD, EGE
		14,000	FDB
	480	35,000	EGH, EGS
200	600	25,000	FDC, HFD, HFDE, HJD, JGH
		18,000	FD, JD, JGE
		14,000	FDB
	480	65,000	HFD, HFDE, HJD, JGH

Product Enhancement

Eaton non-fusible safety switches, per table below, within the noted ampere ratings, now carry series combination short-circuit ratings as shown when combined with the identified MCCB or fuse type. With this listed rating, the safety switch shown in the one-line diagram, can be correctly applied **when the motor feeder Eaton HMCP circuit breaker is replaced with an**

Eaton molded case circuit breaker properly sized for the motor hp rating. This is a significant enhancement to the product's performance rating. To achieve these ratings, the switches have been tested in combination with all of the overcurrent devices shown. Furthermore, the applicable combination ratings are marked on the inside of the switch door, ensuring inspector approval.

One-Line Diagram



Information and Application

The circuit breaker or fuse rating is not to exceed the ampere rating of the non-fusible switch. When used on systems with greater than 10 kA short-circuit rating available, the UL Listed short-

circuit rating of the non-fusible switch is based upon the switch being used in combination with fuses or molded case circuit breakers identified in the table below.

Non-Fusible Safety Switches

Eaton Non-Fusible Safety Switch Ampere Rating ^①	Maximum System Voltage AC	Maximum Short-Circuit Rating	Upstream Device ^②	
			Fuse Class	Breaker Frame
30 and 60	600	10,000	H, K	Any circuit breaker
		14,000		FDB
		18,000		FD, EGE
		25,000		FDC, HFD, HFDE, EGH
		200,000	R, T, J, L	
100	480	10,000	H, K	Any circuit breaker
		35,000		EGH, EGS
	600	10,000	H, K	Any circuit breaker
		14,000		FDB
		18,000		FD, EGE
200	480	10,000	H, K	Any circuit breaker
		65,000		HFD, HFDE, HJD, JGH
	600	10,000	H, K	Any circuit breaker
		14,000		FDB
		18,000		FD, JD, JGE
	600	25,000		FDC, HFD, HFDE, HJD, JGH
		200,000 ^③	R, T, J, L	

Notes

- ① For use on NEMA 1, 3R, 12/3R and 4X switches.
- ② Fuse or circuit breaker rating is not to exceed switch rating.
- ③ NEMA 12, 4/4X only. NEMA 1, 3R are 100 kAIC at 600 Vac.

Dimensions

Typical Fuse Dimensions in Inches

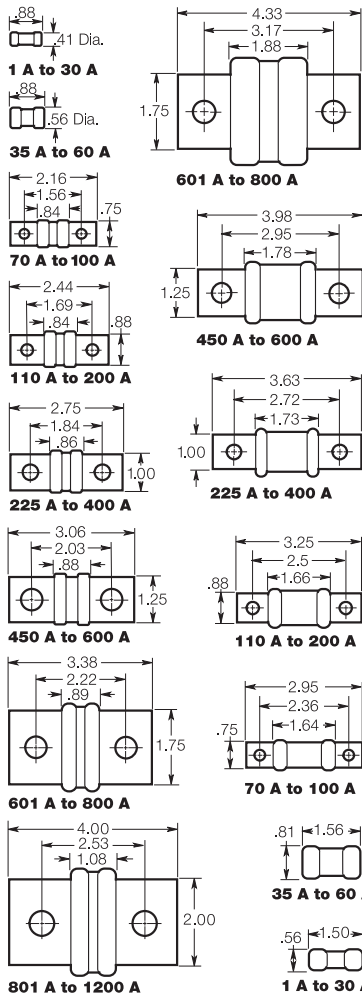
Note: For typical fuse dimensions in millimeters, see Page V2-T1-24.

Class T

T-Tron™ Fuses

JJN (300V)

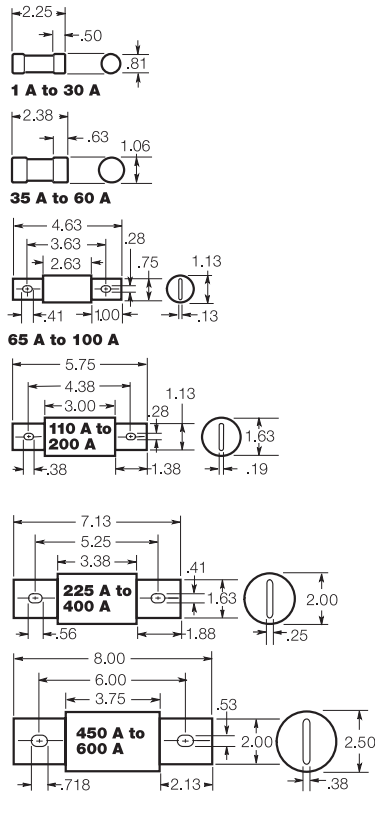
JJS (600V)



Class J

Low-Peak® and Limitron® Fuses

LPJ & JKS (600V)



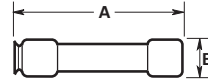
Class RK5 and RK1, Class H

(Dimensions Apply)

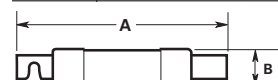
Fusetron®, Low-Peak and Limitron Fuses (250 and 600V)

FRN-R and FRS-R; LPN-RK and LPS-RK; KTN-R and KTS-R
Basic dimensions are same as Class H (formerly NEC) ONE-TIME (NON and NOS) and SUPERLAG Renewable RES and REN fuses.

Note: These fuses can be used to replace existing Class H, RK1 and RK5 fuses relating to dimensional compatibility.



Ampere	250V		600V	
	A	B	A	B
1/10-30	2.00	0.56	5.00	0.81
35-60	3.00	0.81	5.50	1.06



Fusetron and Limitron

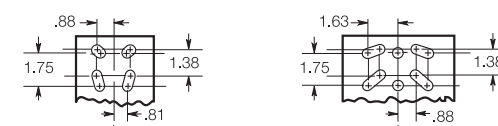
Ampere	250V		600V	
	A	B	A	B
70-100	5.88	1.06	7.88	1.34
110-200	7.13	1.56	9.63	1.84
225-400	8.63	2.06	11.63	2.59
450-600	10.38	2.59	13.38	3.13

Low-Peak

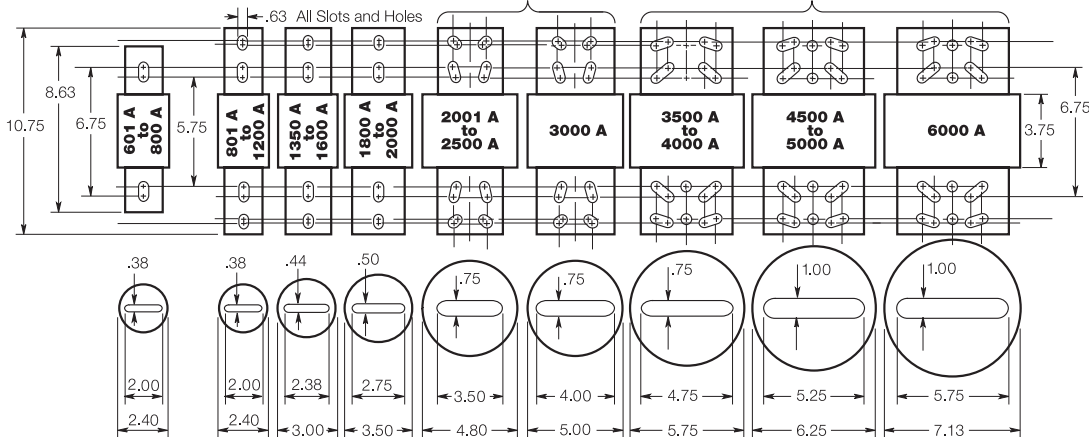
Ampere	250V		600V	
	A	B	A	B
70-100	5.88	1.16	7.88	1.16
110-200	7.13	1.66	9.63	1.66
225-400	8.63	2.38	11.63	2.38
450-600	10.38	2.88	13.38	2.88

Class L Low-Peak and Limitron Fuses

KRP-C, KTU & KLU (601-4000A) (600V)



Note: KRP-CL (150-600A) fuses have same dimensions as 601-800A case size. KTU (200-600A) have same dimensions, except tube 3-inch lgth. x 2-inch dia.; terminal 1.63-inch width x 1.25-inch thick.



Typical Fuse Dimensions in Millimeters

Class T

T-Tron Fuses
JJN (300V)

1 A to 30 A
10.3 Dia.

35 A to 60 A
14.3 Dia.

70 A to 100 A

110 A to 200 A

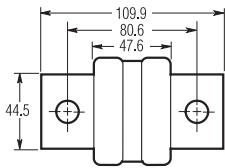
225 A to 400 A

450 A to 600 A

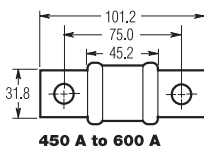
601 A to 800 A

801 A to 1200 A

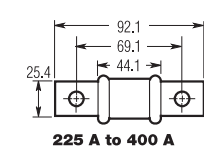
JJS (600V)



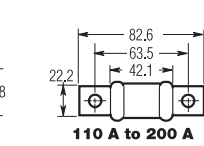
601 A to 800 A



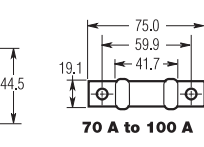
450 A to 600 A



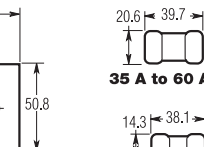
225 A to 400 A



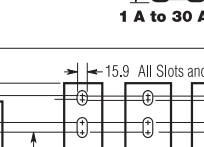
110 A to 200 A



70 A to 100 A



35 A to 60 A



1 A to 30 A

Class J

Low-Peak and Limitron Fuses
LPJ and JKS (600V)

1 A to 30 A

35 A to 60 A

65 A to 100 A

110 A to 200 A

225 A to 400 A

450 A to 600 A

601 A to 800 A

801 A to 1200 A

110 A to 200 A

225 A to 400 A

450 A to 600 A

601 A to 800 A

801 A to 1200 A

110 A to 200 A

225 A to 400 A

450 A to 600 A

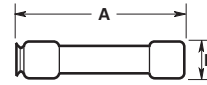
601 A to 800 A

801 A to 1200 A

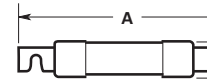
Fusetron, Low-Peak and Limitron Fuses (250 and 600V)
FRN-R and FRS-R; LPN-RK and LPS-RK; KTN-R and KTS-R

Basic dimensions are same as Class H (formerly NEC) ONE-TIME (NON and NOS) and SUPERLAG Renewable RES and REN fuses.

Note: These fuses can be used to replace existing Class H, RK1 and RK5 fuses relating to dimensional compatibility.



Ampere	250V		600V	
	A	B	A	B
1/10-30	50.8	14.3	127.0	20.6
35-60	76.2	20.6	139.7	27.0



Fusetron and Limitron

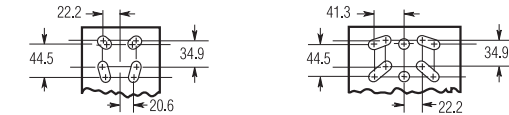
Ampere	250V		600V	
	A	B	A	B
70-100	149.2	26.9	200.0	34.0
110-200	181.0	39.6	244.5	46.7
225-400	219.1	52.3	295.3	65.8
450-600	263.5	65.8	339.7	79.5

Low-Peak

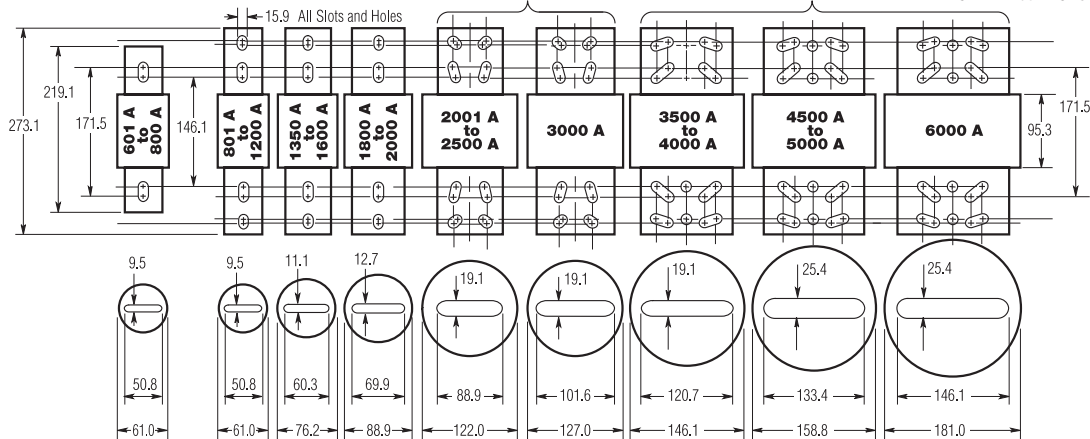
Ampere	250V		600V	
	A	B	A	B
70-100	149.2	29.5	200.0	29.5
110-200	181.0	42.2	244.5	42.2
225-400	219.1	60.5	295.3	60.5
450-600	263.5	73.2	339.7	73.2

Class L Low-Peak and Limitron Fuses

KRP-C, KTU and KLU (601-4000A) (600V)



Note: KRP-CL (150-600A) fuses have same dimensions as 601-800A case size. KTU (200-600A) have same dimensions, except tube 76.2 mm lgth. x 50.8 mm dia.; terminal 41.3 mm width x 31.8 mm thick.



Cartridge Fuse General-Duty Safety Switch



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Flange Mounted—Fixed Depth	V2-T1-109

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-T1-14** for selection

Application Description

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

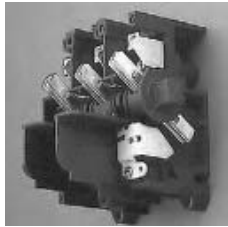
Features, Benefits and Functions

General-Duty (Cartridge Fuse)

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

DP221NGB



System	Ampere Rating	Fuse Type Provision	Maximum Horsepower Ratings ^①			DC 250V	NEMA 1 Enclosure Indoor Catalog Number	NEMA 3R Enclosure Rainproof Catalog Number
			Single-Phase AC 120V	240V	Three-Phase AC 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
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	DG221NRB
	60	H	—	3–10	7-1/2–15 ^⑥	—	DG222NGB	DG222NRB
	100	H	—	7-1/2–15	15–30 ^⑥	—	DG223NGB	DG223NRB
	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-T1-13**.
- 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-T1-13** 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 ^①			DC 250V	NEMA 1 Enclosure Indoor Catalog Number	NEMA 3R Enclosure Rainproof Catalog Number
			Single-Phase AC 120V	240V	Three-Phase AC 240V			
Cartridge Type—Three-Pole, Three-Wire (Three Blades, Three Fuses)—240 Vac								
	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}
Cartridge Type—Four-Wire (Three Blades, Three Fuses, S/N)—120/240 Vac								
	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			
Two-Pole, Two-Wire (Two Blades)—240 Vac							
	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
Three-Pole, Three-Wire (Three Blades)—240 Vac							
	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.

Dimensions

Approximate Dimensions in Inches (mm)

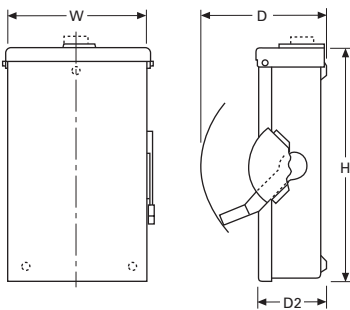
Plug Fuse, 120, 120/240V, Single-, Two-Pole Solid Neutral, Single-Throw

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)

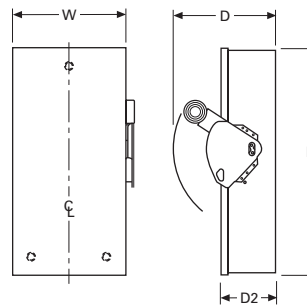
NEMA 1, 3R 30–100A General-Duty Non-Fusible and Fusible Single-Throw ^②



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.

Heavy-Duty Safety Switch



Heavy-Duty

Product Description

- 30–1200A
- 600 Vac, 600 Vdc maximum
- Horsepower rated
- 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
- Suitable for service entrance applications unless otherwise noted
- For factory modifications, refer to **Page V2-T1-15**

Application Description

For heavy commercial and industrial applications where reliable performance and service continuity are critical.

For the toughest heavy commercial and industrial applications, refer to **Page V2-T1-77** for catalog information on our mill-duty safety switch.

316 Grade stainless steel is often a desirable choice for wastewater treatment plants and petrochemical facilities.

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Left-Handed Safety Switch	V2-T1-89
Heavy-Duty Surge Switch	V2-T1-90
OEM Line Isolation (OLI) Switch	V2-T1-92
Pringle Bolted Pressure Switch	V2-T1-95
Type DS, Fusible and Non-Fusible	V2-T1-98
Type Visi-Flex DE-ION	V2-T1-101
Flange Mounted—Variable Depth	V2-T1-105
Flange Mounted—Fixed Depth	V2-T1-109

Features, Benefits and Functions

- Deionizing arc chutes; arc chutes confine and suppress the arcs produced by opening contacts under load
- Mechanically interlocked cover to prevent easy access when the switch is in the ON position
- Clearly visible palm fitting red handle
- Premium 316-Grade stainless steel enclosures offer better corrosion resistance in the presence of most chemicals, salts and acids, and is more resistant to marine atmospheres
- Visible double-break quick-make, quick-break blades
- Visible ON/OFF indication
- 30–1200A NEMA 12 designs convertible to NEMA 3R by opening factory-installed drain hole
- Tri-lingual nameplates

Standards and Certifications

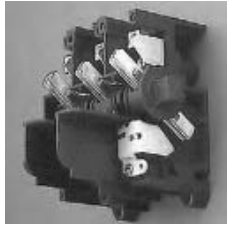
- UL listed File No. E5239
- Meets UL 98 for enclosed switches and NEMA Std. KS-1



Seismic Qualifications

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





Visible Double-Break Rotary Blade Mechanism

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



Clear Line Shield

- 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



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

- Provide easy removal of fuses



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


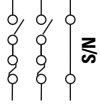
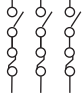
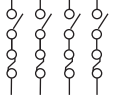
- For switches in a NEMA Type 3R, 30–200A. Use a Myers type hub for all others

Product Selection

DH221NRK



240 Vac Heavy-Duty, Single-Throw, Fusible—NEMA 1, 3R, 12/3R

System	Maximum Horsepower Ratings						DC 250V	NEMA 1 Enclosure Indoor Catalog Number	NEMA 3R Enclosure Rainproof Catalog Number	NEMA 12/3R Enclosure Industrial, Dust-Tight Catalog Number
	Ampere Rating	Fuse Type Provision	AC Standard Fuse		Time Delay					
			Single-Phase	Three-Phase	Single-Phase	Three-Phase				
Two-Pole—240 Vac, 250 Vdc (Suitable for Service Entrance Use with a Neutral Kit Installed)										
	30	H	1-1/2	—	—	—	5	DH221FGK ①	③	③
	60	—	—	—	—	—	—	③	③	③
	100	—	—	—	—	—	—	③	③	③
	200	—	—	—	—	—	—	③	③	③
	400	H	—	50 ①②	—	125 ①②	50	DH225FGK	DH225FRK	DH225FDK ⑤
	600	H	—	75 ①②	—	200 ①②	—	DH226FGK	DH226FRK	DH226FDK ⑤
	800	L	—	100 ①②	—	—	—	DH227FGK	—	DH227FDK ⑤
Three-Wire (Two Blades, Two Fuses, S/N)—240 Vac, 250 Vdc										
	30	H	1-1/2	3 ④	3	7-1/2 ④	5	DH221NGK ①	DH221NRK ①	DH221NDK ①⑤
	60	H	3	7-1/2 ④	10	15 ④	10	DH222NGK	DH222NRK	DH222NDK ⑤
	100	H	7-1/2	15 ④	15	30 ④	20	DH223NGK	DH223NRK	DH223NDK ⑤
	200	H	15	25 ④	15	60 ④	40	DH224NGK	DH224NRK	DH224NDK ⑤
	400	H	—	50 ④	—	125 ④	50	DH225NGK	DH225NRK	DH225NDK ⑤
	600	H	—	75 ④	—	200 ④	—	DH226NGK	DH226NRK	DH226NDK ⑤
	800	L	—	100 ④	—	—	—	DH227NGK	DH227NRK	DH227NDK ⑤
Three-Pole—240 Vac, 250 Vdc (Suitable for Service Entrance Use with a Neutral Kit Installed)										
	30	H	1-1/2	3	3	7-1/2	5	DH321FGK ①	DH321FRK ①	DH321FDK ①⑤
	60	H	3	7-1/2	10	15	10	DH322FGK	DH322FRK	DH322FDK ⑤
	100	H	7-1/2	15	15	30	20	DH323FGK	DH323FRK	DH323FDK ⑤
	200	H	15	25	15	60	40	DH324FGK	DH324FRK	DH324FDK ⑤
	400	H	—	50	—	125	50	DH325FGK	DH325FRK	DH325FDK ⑤
	600	H	—	75	—	200	—	DH326FGK	DH326FRK	DH326FDK ⑤
	800	L	—	100	—	—	—	DH327FGK	DH327FRK	DH327FDK ⑤
	1200	L	—	—	—	—	—	DH328FGK	DH328FRK	DH328FDK ⑤
Four-Wire (Three Blades, Three Fuses, S/N)—240 Vac, 250 Vdc										
	30	H	1-1/2	3	3	7-1/2	5	DH321NGK ①	DH321NRK ①	DH321NDK ①⑤
	60	H	3	7-1/2	10	15	10	DH322NGK	DH322NRK	DH322NDK ⑤
	100	H	7-1/2	15	15	30	20	DH323NGK	DH323NRK	DH323NDK ⑤
	200	H	15	25	15	60	40	DH324NGK	DH324NRK	DH324NDK ⑤
	400	H	—	50	—	125	50	DH325NGK	DH325NRK	DH325NDK ⑤
	600	H	—	75	—	200	—	DH326NGK	DH326NRK	DH326NDK ⑤
	800	L	—	100	—	—	—	DH327NGK	DH327NRK	DH327NDK ⑤⑥
	1200	L	—	—	—	—	—	DH328NGK	DH328NRK	DH328NDK ⑤
Four-Pole—240 Vac, 250 Vdc ⑦										
	30	H	3	3	10	7-1/2	5	DH421FGK ①	⑤	DH421FDK ①⑤
	60	H	7-1/2	7-1/2	20	15	10	DH422FGK	⑤	DH422FDK ⑤
	100	H	15	15	30	30	20	DH423FGK	⑤	DH423FDK ⑤
	200	H	30	25	50	60	40	DH424FGK	⑤	DH424FDK ⑤
	400	H	50	50	—	125	50	DH425FGK	⑤⑥	⑤⑥
	600	H	—	75	—	200	—	DH426FGK	⑤⑥	⑤⑥

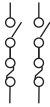
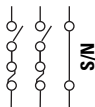

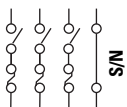
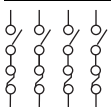
Notes

- ① 30A heavy-duty switches with Type J fuse provisions are available from the factory only.
- ② Horsepower ratings apply only when neutral is field installed and switch is used on a grounded B phase system.
- ③ Use three-pole catalog numbers below.
- ④ Grounded B phase ratings, UL listed.
- ⑤ Use NEMA 12. NEMA 12 enclosures (30–1200A) can be field modified to meet NEMA 3R rainproof requirements when a factory provided drain hole is opened.
- ⑥ Contact the Safety Switch Flex Center (1-888-329-9272 or FlexSwitches@eaton.com) for availability of this product.
- ⑦ NOT suitable for service entrance use per NEC 215.10 and 230.95.

DH322FWK



240 Vac Heavy-Duty, Single-Throw, Fusible—NEMA 4, 4X, 4X 316 Stainless-Steel

System	Maximum Horsepower Ratings						DC 250V	NEMA 4 Enclosure Watertight, Painted Steel Catalog Number	NEMA 4X Enclosure Corrosion- Resistant, Stainless Steel Catalog Number	NEMA 4X Enclosure Corrosion- Resistant, 316-Grade Stainless Steel Catalog Number
	Ampere Rating	Fuse Type Provision	AC		Time Delay					
			Single- Phase	Three- Phase	Single- Phase	Three- Phase				
Two-Pole—240 Vac, 250 Vdc (Suitable for Service Entrance Use with a Neutral Kit Installed)										
	30	H	1-1/2	—	—	—	5	—	③	③
	60	—	—	—	—	—	—	—	③ or ④	③ or ④
	100	—	—	—	—	—	—	—	④	④
	200	—	—	—	—	—	—	—	④	④
	400	H	—	50 ①	—	125 ①	50	DH225FPK	④	④
	600	H	—	75 ①	—	200 ①	—	DH226FPK	④	④
	800	L	—	100 ①	—	—	—	—	④	④
Three-Wire (Two Blades, Two Fuses, S/N)—240 Vac, 250 Vdc										
	30	H	1-1/2	3 ②	3	7-1/2 ②	5	—	DH221NWK ⑤	DH221NWK316 ⑤
	60	H	3	7-1/2 ②	10	15 ②	10	—	DH222NWK	DH222NWK316
	100	H	7-1/2	15 ②	15	30 ②	20	—	DH223NWK	DH223NWK316
	200	H	15	25 ②	15	60 ②	40	—	DH224NWK	DH224NWK316
	400	H	—	50 ②	—	125 ②	50	DH225NPK	DH225NWK	DH225NWK316
	600	H	—	75 ②	—	200 ②	—	DH226NPK	DH226NWK	DH226NWK316
	800	L	—	100 ②	—	—	—	DH227NPK	DH227NWK	DH227NWK316
Three-Pole—240 Vac, 250 Vdc (Suitable for Service Entrance Use with a Neutral Kit Installed)										
	30	H	1-1/2	3	3	7-1/2	5	—	DH321FWK ⑤	DH321FWK316 ⑤
	60	H	3	7-1/2	10	15	10	—	DH322FWK	DH322FWK316
	100	H	7-1/2	15	15	30	20	—	DH323FWK	DH323FWK316
	200	H	15	25	15	60	40	—	DH324FWK	DH324FWK316
	400	H	—	50	—	125	50	DH325FPK	DH325FWK	DH325FWK316
	600	H	—	75	—	200	—	DH326FPK	DH326FWK	DH326FWK316
	800	L	—	100	—	—	—	DH327FPK	DH327FWK	DH327FWK316
	1200	L	—	—	—	—	—	—	DH328FWK	DH328FWK316
Four-Wire (Three Blades, Three Fuses, S/N)—240 Vac, 250 Vdc										
	30	H	1-1/2	3	3	7-1/2	5	—	DH321NWK ⑤	DH321NWK316 ⑤
	60	H	3	7-1/2	10	15	10	—	DH322NWK	DH322NWK316
	100	H	7-1/2	15	15	30	20	—	DH323NWK	DH323NWK316
	200	H	15	25	15	60	40	—	DH324NWK	DH324NWK316
	400	H	—	50	—	125	50	DH325NPK	DH325NWK	DH325NWK316
	600	H	—	75	—	200	—	DH326NPK	DH326NWK	DH326NWK316
	800	L	—	100	—	—	—	—	④	④
	1200	L	—	—	—	—	—	—	DH328NWK	DH328NWK316
Four-Pole—240 Vac, 250 Vdc ⑥										
	30	H	3	3	10	7-1/2	5	—	④	④
	60	H	7-1/2	7-1/2	20	15	10	—	④	④
	100	H	15	15	30	30	20	—	④	④
	200	H	30	25	50	60	40	—	④	④
	400	H	50	50	—	125	50	—	④	④
	600	H	—	75	—	200	—	—	④	④


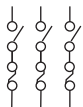
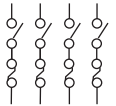
Notes

- ① Horsepower ratings apply only when neutral is field installed and switch is used on a grounded B phase system.
- ② Grounded B phase ratings, UL listed.
- ③ Use three-pole catalog numbers below.
- ④ Contact the Safety Switch Flex Center (1-888-329-9272 or FlexSwitches@eaton.com) for availability of this product.
- ⑤ 30A heavy-duty switches with Type J fuse provisions are available from the factory only.
- ⑥ NOT suitable for service entrance use per NEC 215.10 and 230.95.

DH362NRK




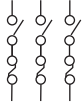
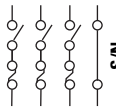
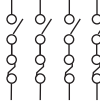
600 Vac Heavy-Duty, Fusible, Single-Throw, 277/480–600V—NEMA 1, 3R, 12/3R

System	Ampere Rating	Fuse Class Provision	Maximum Horsepower Ratings with Time Delay Fuses						NEMA 1 Enclosure Indoor Catalog Number	NEMA 3R Enclosure Rainproof Catalog Number	NEMA 12/3R ^① Enclosure Industrial, Dust-Tight Catalog Number
			Single-Phase AC		Three-Phase AC		DC				
			480V	600V	480V	600V	250V	600V			
Two-Pole—480 Vac—600 Vac or Vdc^② (Suitable for Service Entrance Use with a Neutral Kit Installed)											
	30	H	7-1/2	10	—	—	—	15	DH261FGK ^③	DH261FRK ^③	DH261FDK ^③
	60	H	20	25	—	—	—	25	DH262FGK	DH262FRK	DH262FDK
	100	H	30	40	—	—	20	25	DH263FGK	DH263FRK	DH263FDK
	200	H	50	50	—	—	40	50	DH264FGK	DH264FRK	DH264FDK
	400	H	—	—	—	—	50	—	DH265FGK	DH265FRK	DH265FDK
	600	H	—	—	—	—	50	—	DH266FGK	DH266FRK	DH266FDK
	800	L	—	—	—	—	—	—	DH267FGK	DH267FRK	DH267FDK
	1200	L	—	—	—	—	—	—	④	—	④
Three-Pole—480 Vac—600 Vac, 250 Vdc (Suitable for Service Entrance Use with a Neutral Kit Installed)											
	30	H	7-1/2	10	15	20	—	—	DH361FGK ^③	DH361FRK ^③	DH361FDK ^③
	60	H	20	25	30	50	—	—	DH362FGK	DH362FRK	DH362FDK
	100	H	30	40	60	75	—	—	DH363FGK	DH363FRK	DH363FDK
	200	H	50	50	125	150	—	—	DH364FGK	DH364FRK	DH364FDK
	400	H	—	—	250	350	—	—	DH365FGK	DH365FRK	DH365FDK
	600	H	—	—	400	500	—	—	DH366FGK	DH366FRK	DH366FDK
	800	L	—	—	500	500	—	—	DH367FGK	DH367FRK	DH367FDK
	1200	L	—	—	500	500	—	—	DH368FGK ^⑥	DH368FRK ^⑥	DH368FDK ^⑥
Four-Wire (Three Blades, Three Fuses, S/N) 480 Vac—600 Vac, 250 Vdc											
	30	H	7-1/2	10	15	20	—	—	DH361NGK ^③	DH361NRK ^③	DH361NDK ^③
	60	H	20	25	30	50	—	—	DH362NGK	DH362NRK	DH362NDK
	100	H	30	40	60	75	—	—	DH363NGK	DH363NRK	DH363NDK
	200	H	50	50	125	150	—	—	DH364NGK	DH364NRK	DH364NDK
	400	H	—	—	250	350	—	—	DH365NGK	DH365NRK	DH365NDK
	600	H	—	—	400	500	—	—	DH366NGK	DH366NRK	DH366NDK
	800	L	—	—	500	500	—	—	DH367NGK	DH367NRK	④
	1200	L	—	—	500	500	—	—	DH368NGK ^⑥	DH368NRK ^⑥	DH368NDK ^⑥
Four-Pole—480 Vac—600 Vac, 250 Vdc^⑥											
	30	H	20 ^⑤	25 ^⑤	15	20	—	—	DH461FGK ^③	①	④
	60	H	40 ^⑤	50 ^⑤	30	50	—	—	DH462FGK	①	④
	100	H	50 ^⑤	50 ^⑤	60	75	—	—	DH463FGK	①	DH463FDK
	200	H	—	—	125	150	40	—	DH464FGK	①	DH464FDK
	400	H	—	—	250	350	50	—	DH465FGK	①④	④
	600	H	—	—	400	500	—	—	DH466FGK	①④	④
	800	L	—	—	—	—	—	—	③	①④	④

Notes

- ① NEMA 12 enclosures (30–1200A) can be field modified to meet NEMA 3R rainproof requirements when a factory provided drain hole is opened.
- ② DC rating for 800A switches is 250V.
- ③ 30A heavy-duty switches with Type J fuse provisions are available from the factory only.
- ④ Contact the Safety Switch Flex Center (1-888-329-9272 or FlexSwitches@eaton.com) for availability of this product.
- ⑤ Ratings are for two-phase AC.
- ⑥ NOT suitable for service entrance use per NEC 215.10 and 230.95.

600 Vac Heavy-Duty, Fusible, Single-Throw, 277/480–600V—NEMA 4, 4X, 4X 316 Stainless-Steel

System	Ampere Rating	Fuse Class Provision	Maximum Horsepower Ratings with Time Delay Fuses						NEMA 4 Enclosure Watertight, Painted Steel Catalog Number	NEMA 4X Enclosure Corrosion-Resistant, Stainless Steel Catalog Number	NEMA 4X Enclosure Corrosion-Resistant, 316-Grade Stainless Steel Catalog Number
			Single-Phase AC		Three-Phase AC		DC				
			480V	600V	480V	600V	250V	600V			
Two-Pole—480 Vac—600 Vac or Vdc ^① (Suitable for Service Entrance Use with a Neutral Kit Installed)											
	30	H	7-1/2	10	—	—	—	15	—	DH261FWK ^②	DH261FWK316 ^②
	60	H	20	25	—	—	—	25	—	③ or ④	③ or ④
	100	H	30	40	—	—	20	—	—	③ or ④	③ or ④
	200	H	50	50	—	—	—	50	—	DH264FWK	DH264FWK316
	400	H	—	—	—	—	50	—	④	③ or ④	③ or ④
	600	H	—	—	—	—	—	—	④	③ or ④	③ or ④
	800	L	—	—	—	—	—	—	④	③ or ④	③ or ④
	1200	L	—	—	—	—	—	—	—	④	③
Three-Pole—480 Vac—600 Vac, 250 Vdc (Suitable for Service Entrance Use with a Neutral Kit Installed)											
	30	H	7-1/2	10	15	20	—	—	—	DH361FWK ^②	DH361FWK316 ^②
	60	H	20	25	30	50	—	—	—	DH362FWK	DH362FWK316
	100	H	30	40	60	75	—	—	—	DH363FWK	DH363FWK316
	200	H	50	50	125	150	—	—	—	DH364FWK	DH364FWK316
	400	H	—	—	250	350	—	—	DH365FPK	DH365FWK	DH365FWK316
	600	H	—	—	400	500	—	—	DH366FPK	DH366FWK	DH366FWK316
	800	L	—	—	500	500	—	—	DH367FPK	DH367FWK	DH367FWK316
	1200	L	—	—	500	500	—	—	—	DH368FWK ^⑤	DH368FWK316 ^⑤
Four-Wire (Three Blades, Three Fuses, S/N) 480 Vac—600 Vac, 250 Vdc											
	30	H	7-1/2	10	15	20	—	—	—	DH361NWK ^②	DH361NWK316 ^②
	60	H	20	25	30	50	—	—	—	DH362NWK	DH362NWK316
	100	H	30	40	60	75	—	—	—	DH363NWK	DH363NWK316
	200	H	50	50	125	150	—	—	—	DH364NWK	DH364NWK316
	400	H	—	—	250	350	—	—	DH365NPK	DH365NWK	DH365NWK316
	600	H	—	—	400	500	—	—	DH366NPK	DH366NWK	DH366NWK316
	800	L	—	—	500	500	—	—	—	DH367NWK ^③	③
	1200	L	—	—	500	500	—	—	—	DH368NWK ^⑤	DH368NWK316 ^⑤
Four-Pole—480 Vac—600 Vac, 250 Vdc											
	30	H	20 ^⑥	25 ^⑥	15	20	—	—	—	③	③
	60	H	40 ^⑥	50 ^⑥	30	50	—	—	—	③	③
	100	H	50 ^⑥	50 ^⑥	60	75	—	—	—	③	③
	200	H	—	—	125	150	40	—	—	③	③
	400	H	—	—	250	350	50	—	—	③	③
	600	H	—	—	400	500	—	—	—	③	③
	800	L	—	—	—	—	—	—	—	③	③




Notes

- ① DC rating for 800A switches is 250V.
- ② 30A heavy-duty switches with Type J fuse provisions are available from the factory only.
- ③ Contact the Safety Switch Flex Center (1-888-329-9272 or FlexSwitches@eaton.com) for availability of this product.
- ④ Use three-pole catalog numbers below for 600 Vac, 250 Vdc maximum applications.
- ⑤ NOT suitable for service entrance use per NEC 215.10 and 230.95.
- ⑥ Ratings are for two-phase AC.

DH362UGK



600 Vac Heavy-Duty, Non-Fusible, Single-Throw, 277/480–600V – NEMA 1, 3R, 12/3R

System	Ampere Rating	Maximum Horsepower Ratings									NEMA 1 Enclosure Indoor Catalog Number	NEMA 3R Enclosure Rainproof Catalog Number	NEMA 12/3R Enclosure Industrial, Dust-Tight Catalog Number
		Single-Phase AC			Three-Phase AC			DC					
		240V	480V	600V	240V	480V	600V	250V	600V				
Two-Pole—480 Vac—600 Vac or Vdc ^① (Suitable for Service Entrance Use with a Neutral Kit Installed)													
	30	3	7-1/2	10	—	—	—	—	15	DH261UGK	DH261URK	DH261UDK ^⑤	
	60	10	20	25	—	—	—	—	25	DH262UGK	DH262URK	DH262UDK ^⑤	
	100	20	30	40	—	—	—	20	25	DH263UGK	DH263URK	DH263UDK ^⑤	
	200	15	50	50	—	—	—	—	50	DH264UGK	DH264URK	DH264UDK ^⑤	
	400	—	—	—	—	—	—	50	50	DH265UGK	DH265URK	DH265UDK ^⑤	
	600	—	—	—	—	—	—	—	50	DH266UGK	DH266URK	DH266UDK ^⑤	
	800	—	—	—	—	—	—	—	—	DH267UGK	DH267URK	DH267UDK ^⑤	
	1200	—	—	—	—	—	—	—	—	^②	—	^②	
Three-Pole—480 Vac—600 Vac, 250 Vdc (Suitable for Service Entrance Use with a Neutral Kit Installed)													
	30	3	7-1/2	10	10	20	30	5	—	DH361UGK	DH361URK	DH361UDK ^⑤	
	60	10	20	25	20	50	60	10	—	DH362UGK	DH362URK	DH362UDK ^⑤	
	100	20	40	50	40	75	100	20	—	DH363UGK	DH363URK	DH363UDK ^⑤	
	200	15	50	50	60	125	150	40	—	DH364UGK	DH364URK	DH364UDK ^⑤	
	400	—	—	—	125	250	350	50	—	DH365UGK	DH365URK	DH365UDK ^⑤	
	600	—	—	—	200	400	500	—	—	DH366UGK	DH366URK	DH366UDK ^⑤	
	800	—	—	—	—	500	500	—	—	DH367UGK	DH367URK	DH367UDK ^⑤	
	1200	—	—	—	—	500	500	—	—	DH368UGK ^③	DH368URK ^③	DH368UDK ^③	
Four-Pole—480 Vac—600 Vac, 250 Vdc ^③													
	30	10 ^④	20 ^④	25 ^④	10	20	30	5	—	DH461UGK	^⑤	DH461UDK ^⑤	
	60	20 ^④	40 ^④	50 ^④	20	50	60	10	—	DH462UGK	^⑤	DH462UDK ^⑤	
	100	40 ^④	50 ^④	50 ^④	40	75	100	20	—	DH463UGK	^⑤	DH463UDK ^⑤	
	200	50 ^④	50 ^④	50 ^④	60	125	150	40	—	DH464UGK	^⑤	DH464UDK ^⑤	
	400	50 ^④	—	—	125	250	350	50	—	DH465UGK	^{②⑤}	^{②⑤}	
	600	—	—	—	200	400	500	—	—	DH466UGK	^{②⑤}	^{②⑤}	
	800	—	—	—	—	—	—	—	—	^②	^{②⑤}	^{②⑤}	



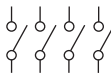
Notes

- ^① DC rating for 800A switches is 250V.
- ^② Contact the Safety Switch Flex Center (**1-888-329-9272** or FlexSwitches@eaton.com) for availability of this product.
- ^③ NOT suitable for service entrance use per NEC 215.10 and 230.95.
- ^④ Ratings are for two-phase AC.
- ^⑤ NEMA 12 enclosures (30–1200A) can be field modified to meet NEMA 3R rainproof requirements when a factory provided drain hole is opened.

DH361UWK



600 Vac Heavy-Duty, Non-Fusible, Single-Throw, 277/480–600V — NEMA 4, 4X, 4X 316 Stainless Steel

System	Ampere Rating	Maximum Horsepower Ratings									NEMA 4 Enclosure Watertight, Painted Steel Catalog Number	NEMA 4X Enclosure Corrosion-Resistant, Stainless Steel Catalog Number	NEMA 4X Enclosure Corrosion-Resistant, 316-Grade Stainless Steel Catalog Number
		Single-Phase AC			Three-Phase AC			DC					
		240V	480V	600V	240V	480V	600V	250V	600V				
Two-Pole—480 Vac—600 Vac or Vdc ^① (Suitable for Service Entrance Use with a Neutral Kit Installed)													
	30	3	7-1/2	10	—	—	—	—	15	—	② or ③	② or ③	
	60	10	20	25	—	—	—	—	25	—	② or ③	② or ③	
	100	20	30	40	—	—	—	20	25	—	② or ③	② or ③	
	200	15	50	50	—	—	—	—	50	—	② or ③	② or ③	
	400	—	—	—	—	—	—	50	—	③	② or ③	② or ③	
	600	—	—	—	—	—	—	—	—	③	② or ③	② or ③	
	800	—	—	—	—	—	—	—	—	③	② or ③	② or ③	
	1200	—	—	—	—	—	—	—	—	—	②	②	
Three-Pole—480 Vac—600 Vac, 250 Vdc (Suitable for Service Entrance Use with a Neutral Kit Installed)													
	30	3	7-1/2	10	10	20	30	5	—	—	DH361UWK	DH361UWK316	
	60	10	20	25	20	50	60	10	—	—	DH362UWK	DH362UWK316	
	100	20	40	50	40	75	100	20	—	—	DH363UWK	DH363UWK316	
	200	15	50	50	60	125	150	40	—	—	DH364UWK	DH364UWK316	
	400	—	—	—	125	250	350	50	—	DH365UPK	DH365UWK	DH365UWK316	
	600	—	—	—	200	400	500	—	—	DH366UPK	DH366UWK	DH366UWK316	
	800	—	—	—	—	500	500	—	—	DH367UPK	DH367UWK	DH367UWK316	
	1200	—	—	—	—	500	500	—	—	—	DH368UWK ^④	DH368UWK316 ^④	
Four-Pole—480 Vac—600 Vac, 250 Vdc ^④													
	30	10 ^⑤	20 ^⑤	25 ^⑤	10	20	30	5	—	—	DH461UWK	DH461UWK316	
	60	20 ^⑤	40 ^⑤	50 ^⑤	20	50	60	10	—	—	②	②	
	100	40 ^⑤	50 ^⑤	50 ^⑤	40	75	100	20	—	—	②	②	
	200	50 ^⑤	50 ^⑤	50 ^⑤	60	125	150	40	—	—	②	②	
	400	50 ^⑤	—	—	125	250	350	50	—	—	②	②	
	600	—	—	—	200	400	500	—	—	—	②	②	
	800	—	—	—	—	—	—	—	—	—	②	②	

Notes

- ① DC rating for 800A switches is 250V.
- ② Contact the Safety Switch Flex Center (1-888-329-9272 or FlexSwitches@eaton.com) for availability of this product.
- ③ Use three-pole catalog numbers below for 600 Vac, 250 Vdc maximum applications. For 600 Vdc, see note ②.
- ④ NOT suitable for service entrance use per NEC 215.10 and 230.95.
- ⑤ Ratings are for two-phase AC.

Dimensions

Approximate Dimensions in Inches (mm)

Note: Dimensions are for estimating purposes only.

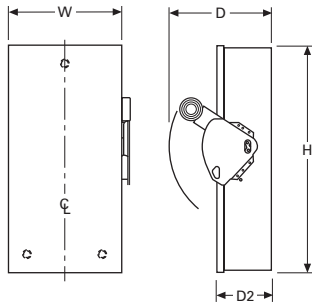
Heavy-Duty, Non-Fusible, 600V, Three-Pole, Single-Throw

Ampere Rating	Width (W)	Height (H)	Depth (D)	Depth (D2)	Weight Lbs (kg)
NEMA 1, 3R					
30	8.13 (206.5)	15.88 (403.4)	10.00 (254.0)	5.25 (133.3)	16 (7.264)
60	8.13 (206.5)	15.88 (403.4)	10.00 (254.0)	5.25 (133.3)	16 (7.264)
100	11.13 (282.7)	21.69 (550.9)	10.00 (254.0)	5.25 (133.3)	22 (9.988)
200	16.00 (406.4)	27.66 (702.5)	11.25 (285.5)	6.14 (156.0)	46 (20.884)
400	24.12 (612.6)	44.31 (1125.5)	12.39 (314.7)	7.27 (184.7)	110 (49.94)
600	25.12 (638.0)	51.82 (1316.2)	14.07 (357.4)	8.95 (227.3)	135 (61.29)
800	26.37 (669.8)	55.82 (1417.8)	14.07 (357.4)	8.95 (227.3)	158 (71.732)
1200	43.12 (1095.2)	70.97 (1802.6)	17.12 (434.8)	12.43 (315.7)	430 (195.22)
NEMA 12, 4X Stainless Steel, 4, 4X 316 Stainless Steel					
30	8.76 (222.5)	14.14 (359.2)	10.22 (259.6)	5.50 (139.7)	17 (7.718)
60	8.76 (222.5)	14.14 (359.2)	10.22 (259.6)	5.50 (139.7)	17 (7.718)
100	11.79 (299.5)	24.95 (633.7)	10.22 (259.6)	5.50 (139.7)	28 (12.712)
200	16.95 (430.5)	35.38 (898.7)	11.63 (295.4)	6.44 (163.6)	55 (24.97)
400	24.12 (612.6)	57.47 (1459.7)	12.43 (320.8)	7.19 (182.6)	125 (56.75)
600	25.01 (635.3)	62.97 (1599.4)	12.79 (324.9)	8.95 (227.3)	167 (75.818)
800	26.35 (669.3)	71.72 (1821.7)	12.79 (324.9)	8.95 (227.3)	175 (79.45)
1200	43.11 (1095.0)	73.77 (1873.8)	17.15 (435.6)	12.45 (316.2)	475 (215.65)

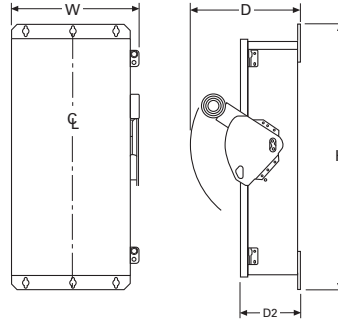
Heavy-Duty, Fusible, 240V and 600V, Three-Pole Solid Neutral, Single-Throw

Ampere Rating	Width (W)	Height (H)	Depth (D)	Depth (D2)	Weight Lbs (kg)
NEMA 1, 3R					
30	8.13 (206.5)	15.88 (403.4)	10.00 (254.0)	5.25 (133.3)	20 (9.08)
60	8.13 (206.5)	15.88 (403.4)	10.00 (254.0)	5.25 (133.3)	20 (9.08)
100	11.13 (282.7)	21.69 (550.9)	10.00 (254.0)	5.25 (133.3)	27 (12.258)
200	16.00 (406.4)	27.66 (702.5)	11.25 (285.5)	6.14 (156.0)	46 (20.884)
400	24.12 (612.6)	44.31 (1125.5)	12.39 (314.7)	7.27 (184.7)	110 (49.94)
600	25.12 (638.0)	51.82 (1316.2)	14.07 (357.4)	8.95 (227.3)	135 (61.29)
800	26.37 (669.8)	55.82 (1417.8)	14.07 (357.4)	8.95 (227.3)	158 (71.732)
1200	43.12 (1095.2)	70.97 (1802.6)	17.12 (434.8)	12.43 (315.7)	430 (195.22)
NEMA 12, 4X Stainless Steel, 4, 4X 316 Stainless Steel					
30	8.76 (222.5)	19.08 (359.2)	10.22 (259.6)	5.50 (139.7)	22 (9.988)
60	8.76 (222.5)	19.08 (359.2)	10.22 (259.6)	5.50 (139.7)	22 (9.988)
100	11.79 (299.5)	24.95 (633.7)	10.22 (259.6)	5.50 (139.7)	28 (12.712)
200	16.95 (430.5)	35.38 (898.7)	11.63 (295.4)	6.44 (163.6)	55 (24.97)
400	24.12 (612.6)	57.47 (1459.7)	12.43 (320.8)	7.19 (182.6)	125 (56.75)
600	25.01 (635.3)	62.97 (1599.4)	12.79 (324.9)	8.95 (227.3)	167 (75.818)
800	26.35 (669.3)	71.72 (1821.7)	12.79 (324.9)	8.95 (227.3)	175 (79.45)
1200	43.11 (1095.0)	73.77 (1873.8)	17.15 (435.6)	12.45 (316.2)	475 (215.65)

NEMA 1, 3R Heavy-Duty 30–1200A



NEMA 4, 4X and 12 Heavy-Duty 30–1200A



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

Heavy-Duty Double Door Safety Switch



Heavy-Duty Double Door Safety Switch

Product Description

Eaton's double-door safety switch is the industry's first compartmentalized fusible safety switch. The revolutionary two-door design includes an internal barrier that separates the upper switching compartment from the lower fuse compartment. This allows operators to access the fuse compartment with no exposure to line-side power, providing enhanced safety during fuse replacement.

Features

- 30–1200A
- NEMA 12/3R and NEMA 4X stainless enclosures
- External viewing window over switching blade standard
- Enhanced visible blades included
- Interlocking mechanism keeps door closed when the switch is ON
- Optional voltage monitors

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Flange Mounted—Variable Depth	V2-T1-105
Flange Mounted—Fixed Depth	V2-T1-109

Standards and Certifications

- UL 98 Standard, file no. E5239



1.1

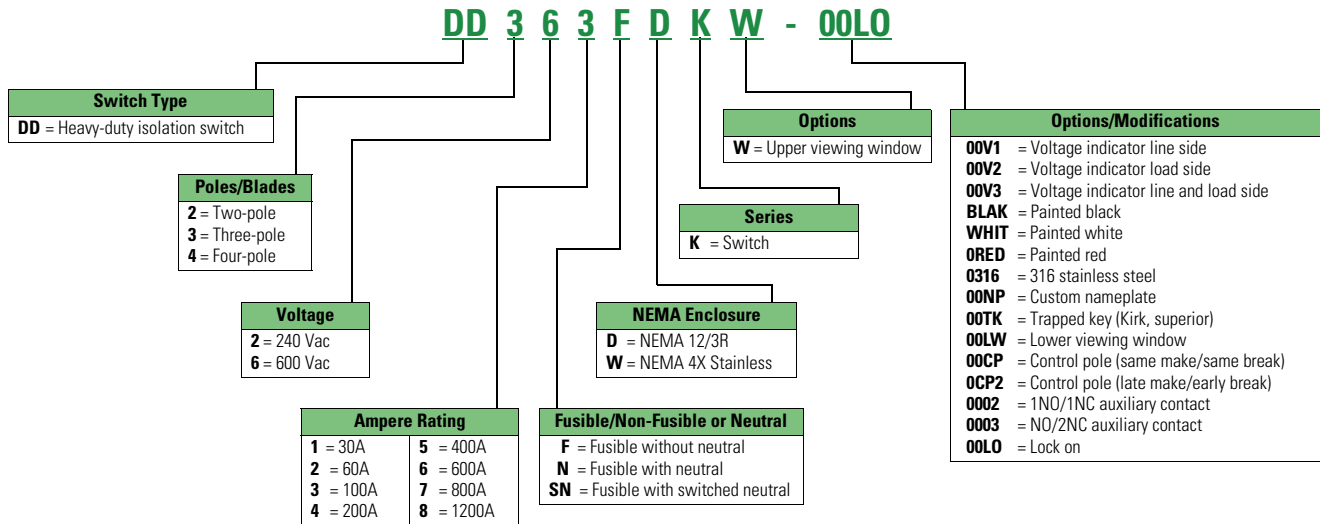
Switching Devices

Safety Switches

1

Catalog Number Selection

Heavy-Duty Double Door Safety Switch



Product Selection

DD321FDKW



240 Vac Heavy-Duty Double Door, Fusible—NEMA 12/3R, 4X

System	Ampere Rating	Fuse Type Provision	Maximum hp Ratings with Time Delay Fuses						NEMA 12/3R Enclosure Dust-tight Catalog Number	NEMA 4X Enclosure Watertight Catalog Number
			Single-Phase AC		Three-Phase AC		DC			
			480V	600V	480V	600V	250V	600V		
Three-Pole, 240 Vac, 250 Vdc (Suitable for Service Entrance Use with a Neutral Kit Installed)										
	30	H	7.5	10	15	20	—	—	DD321FDKW	DD321FWKW
	60	H	20	25	30	50	—	—	DD322FDKW	DD322FWKW
	100	H	30	40	60	75	—	—	DD323FDKW	DD323FWKW
	200	H	50	50	125	150	—	—	DD324FDKW	DD324FWKW
	400	H	—	—	250	350	—	—	DD325FDKW	DD325FWKW
	600	H	—	—	400	500	—	—	DD326FDKW	DD326FWKW
	800	L	—	—	500	500	—	—	DD327FDKW	DD327FWKW
	1200	L	—	—	500	500	—	—	DD328FDKW	DD328NWKW
Four-Wire (Three Blades, Three Fuses, S/N) 240 Vac, 250 Vdc										
	30	H	7.5	10	15	20	—	—	DD321NDKW	DD321NWKW
	60	H	20	25	30	50	—	—	DD322NDKW	DD322NWKW
	100	H	30	40	60	75	—	—	DD323NDKW	DD323NWKW
	200	H	50	50	125	150	—	—	DD324NDKW	DD324NWKW
	400	H	—	—	250	350	—	—	DD325NDKW	DD325NWKW
	600	H	—	—	400	500	—	—	DD326NDKW	DD326NWKW
	800	L	—	—	500	500	—	—	DD327NDKW	DD327NWKW
	1200	L	—	—	500	500	—	—	DD328NDKW	DD328NWKW

DD361FDKW



600 Vac Heavy-Duty Double Door, Fusible—NEMA 12/3R, 4X

System	Ampere Rating	Fuse Type Provision	Maximum hp Ratings with Time Delay Fuses						NEMA 12/3R Enclosure Dust-tight Catalog Number	NEMA 4X Enclosure Watertight Catalog Number
			Single-Phase AC		Three-Phase AC		DC			
			480V	600V	480V	600V	250V	600V		
Three-Pole, 480 Vac–600 Vac or Vdc (Suitable for Service Entrance Use with a Neutral Kit Installed)										
	30	H	7.5	10	15	20	—	—	DD361FDKW	DD361FWKW
	60	H	20	25	30	50	—	—	DD362FDKW	DD362FWKW
	100	H	30	40	60	75	—	—	DD363FDKW	DD363FWKW
	200	H	50	50	125	150	—	—	DD364FDKW	DD364FWKW
	400	H	—	—	250	350	—	—	DD365FDKW	DD365FWKW
	600	H	—	—	400	500	—	—	DD366FDKW	DD366FWKW
	800	L	—	—	500	500	—	—	DD367FDKW	DD367FWKW
	1200	L	—	—	500	500	—	—	DD368FDKW ^①	DD368NWKW ^①
Four-Wire (Three Blades, Three Fuses, S/N) 480 Vac–600 Vac, 250 Vdc										
	30	H	7.5	10	15	20	—	—	DD361NDKW	DD361NWKW
	60	H	20	25	30	50	—	—	DD362NDKW	DD362NWKW
	100	H	30	40	60	75	—	—	DD363NDKW	DD363NWKW
	200	H	50	50	125	150	—	—	DD364NDKW	DD364NWKW
	400	H	—	—	250	350	—	—	DD365NDKW	DD365NWKW
	600	H	—	—	400	500	—	—	DD366NDKW	DD366NWKW
	800	L	—	—	500	500	—	—	DD367NDKW	DD367NWKW
	1200	L	—	—	500	500	—	—	DD368NDKW ^①	DD368NWKW ^①

Note

① 1200A is not service entrance rated at 600V.

Modifications

Additions are available such as custom paint, 316-stainless enclosures, custom OEM labeling and more.

Call the Flex Center at 1-888-329-9272 or FlexSwitches@Eaton.com for more information.

Technical Data and Specifications

Ratings and Capacities

Ampere Rating	Factory Fuse Class	Optional Fuse Class ^①	Standard Lug Capacities		Ground ^②	
			Per Phase Min. Wire Size	Max. Wire Size	Min. Wire Size	Max. Wire Size
30	H	J, R	#14	#2	#14	#4
60	H	J, R	#14	#2	#14	#4
100	H	J, R	#14	1/0	#14	#4
200	H	J, R, T	#6	300 kcmil	#14	#2
400	H	J, R, T	(2) 1/0 (1) 1/0	(2) 300 kcmil–1/0 or ^③ (1) 175 kcmil–1/0	#6	250 kcmil
600	H	J, R, T	(1) #2 (1) #2	(1) 600 kcmil and ^④ (1) 750 kcmil	#6	250 kcmil
800	L	T	(4) 1/0	(4) 750 kcmil	#6	250 kcmil
1200	L	T	(4) 1/0	(4) 750 kcmil	#6	250 kcmil

Cable IN/OUT reference chart

	Top IN ^⑤	Bottom IN
Top OUT	■	—
Bottom OUT	■	■

Dimensions

Approximate Dimensions in Inches (mm)

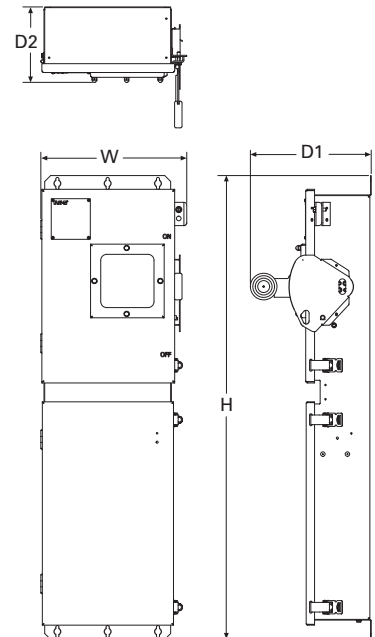
Note: Dimensions are for estimating purposes only.

Heavy-Duty Double Door Safety Switch

Ampere Rating	Height (H)	Width (W)	Depth (D1)	Depth (D2)
30/60	37.49 (952.3)	9.30 (236.2)	8.22 (208.8)	6.37 (161.8)
100	39.19 (995.4)	12.33 (313.2)	10.21 (259.3)	6.37 (161.8)
200	49.90 (1267.5)	17.18 (436.4)	11.62 (295.1)	7.31 (185.7)
400	72.46 (1840.5)	24.32 (617.7)	16.41 (416.8)	14.56 (369.8)
600	77.96 (1980.2)	25.32 (643.1)	19.31 (490.5)	17.80 (452.1)
800	86.73 (2202.9)	26.57 (674.9)	22.16 (562.9)	17.81 (452.4)
1200	91.02 (2312.0)	43.11 (1095.0)	27.18 (690.4)	21.23 (539.2)

Notes

- ① Switches ranging from 30A to 400A can relocate clips/base for class J fuses. All other classes/amperages require a kit. Please consult catalog or contact the Technical Resource Center (TRC) for specific kit catalog numbers.
- ② Lay-in type lug uses 30–100A. Two ground lugs are provided for 200–1200A switches, each accommodating the wire range listed above.
- ③ Single barrel lug that accepts one or two cables per phase as detailed above.
- ④ Double barrel lug that accepts two cables per phase as detailed above.
- ⑤ Remove wireway in bottom compartment. Necessary for 30–200A units only.



Six-Pole Motor Circuit



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Auxiliary Power Heavy-Duty Safety Switch	V2-T1-85
Left-Handed Safety Switch	V2-T1-89
Heavy-Duty Surge Switch	V2-T1-90
OEM Line Isolation (OLI) Switch	V2-T1-92
Pringle Bolted Pressure Switch	V2-T1-95
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Type Visi-Flex DE-ION	V2-T1-101
Flange Mounted—Variable Depth	V2-T1-105
Flange Mounted—Fixed Depth	V2-T1-109

Six-Pole Switches

Product Description

- 600 Vac, 250 Vdc maximum
- 30–200A UL listed
- 400–800A available, Non-UL listed
- Fusible or non-fusible

Application Description

A compact safety switch that's ideal for use in heavy industry... when an "in sight" disconnecting means is required for two-speed motors that are remote from their motor control devices.

Features, Benefits and Functions

- Trunk-type latches keep the cover tightly closed and a neoprene gasket seals out moisture and dust from the switch assembly
- Visible double-break quick-make, quick-break rotary blade mechanism. Two points of contact provide a positive open and close, easier operation, and also help prevent contact burning for longer contact life
- Clear line shield protection
- Built-in fuse pullers
- Clearly visible handle
- Triple padlocking capability; cabinet door can be further padlocked at the top and bottom

- Deionizing arc chutes; arc chutes confine and suppress the arcs produced by opening contacts under load
- For factory modifications, refer to **Page V2-T1-15**

Standards and Certifications

- UL listed File No. E5239
- UL 98
- NEMA Std KS-1



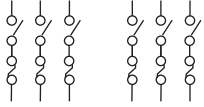
Seismic Qualifications

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



Product Selection


600 Vac Heavy-Duty, Fusible, Six-Pole, Single-Throw

System	Ampere Rating	Fuse Class	Maximum Horsepower Ratings, Three-Phase AC (Higher Rating with Time Delay Fuses)			NEMA 12/3R Enclosure Industrial, Dust-Tight Catalog Number	NEMA 4X Enclosure Corrosion-Resistant, Stainless Steel Catalog Number
			240V	480V	600V		
600 Vac with Fuse Clips—250 Vdc							
	30	H	3–7-1/2	5–15	7-1/2–20	DH661FDK ①②	DH661FWK ②
	60	H	7-1/2–15	15–30	15–50	DH662FDK ①	DH662FWK
	100	H	15–30	25–60	30–75	DH663FDK ①	DH663FWK
	200	H	25–60	50–125	60–150	DH664FDK ①	DH664FWK
	400	H	—	—	—	DH665FDK ③	DH665FWK ③
	600	H	—	—	—	DH666FDK ③	④
	800	L	—	—	—	④	④

DH661UDK



600 Vac Heavy-Duty, Non-Fusible, Six-Pole, Single-Throw

System	Ampere Rating	Maximum Horsepower Ratings					NEMA 12/3R Enclosure Industrial, Dust-Tight Catalog Number	NEMA 4X Enclosure Corrosion-Resistant, Stainless Steel Catalog Number
		Three-Phase AC			Three-Phase DC			
600 Vac—250 Vdc								
		240V	480V	600V	250V	600V ⑤		
	30	10	20	30	5	15	DH661UDK ①	DH661UWK
	60	20	50	60	10	25	DH662UDK ①	DH662UWK
	100	40	75	100	20	25	DH663UDK ①	DH663UWK
	200	60	125	150	40	50	DH664UDK ①	DH664UWK
	400	—	—	—	—	—	DH665UDK ③	DH665UWK ③
	600	—	—	—	—	—	DH666UDK ③	DH666UWK ③
	800	—	—	—	—	—	④	④

Notes

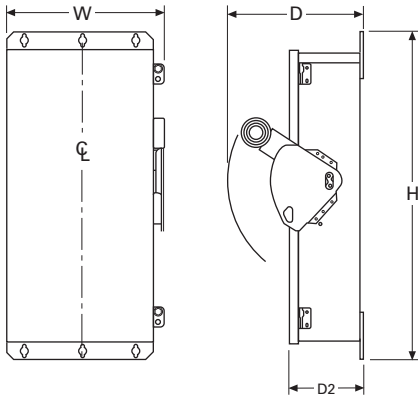
- ① NEMA 12 enclosures (30–800A) can be field modified to meet NEMA 3R rainproof requirements when a factory provided drain hole is opened.
- ② 30A heavy-duty switches with Type J fuse provisions are available from the factory only.
- ③ Non-UL catalog numbers.
- ④ Contact the Safety Switch Flex Center (1-888-329-9272 or FlexSwitches@eaton.com) for availability of this product.
- ⑤ 600 Vdc rating requires that the switch be wired per the wiring diagram on the device publication.

Dimensions

Approximate Dimensions in Inches (mm)

Note: Dimensions are for estimating purposes only.

600 Vac Heavy-Duty, Six-Pole, Single-Throw



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

Six-Pole Switches, Fusible and Non-Fusible

Amperage	NEMA Rating	Height (H)	Width (W)	Depth (D)	Depth (D2)	Weight Lbs (kg)
30A	NEMA 12/3R and 4X	12.17 (309.2)	19.08 (484.6)	10.22 (259.6)	5.50 (139.7)	40 (18.1)
60A	NEMA 12/3R and 4X	12.17 (309.2)	19.08 (484.6)	10.22 (259.6)	5.50 (139.7)	40 (18.1)
100A	NEMA 12/3R and 4X	15.42 (391.7)	24.95 (633.7)	10.22 (259.6)	5.50 (139.7)	45 (20.4)
200A	NEMA 12/3R and 4X	23.51 (597.2)	35.38 (898.7)	11.63 (295.4)	6.44 (163.6)	65 (29.5)

Heavy-Duty Double-Throw



Double-Throw Switches

Product Description

Used to transfer service from a normal power source to an alternate source... or to switch from one load circuit to another.

- 30–1200A
- Horsepower rated
- 600 Vac, 250 Vdc maximum
- 600–1200A fusible utilize common set of fuses as Eaton's stacked double-throw design. The stacked design is suitable for two source 1 load applications only
- 600–800A fusible are available for one source 2 load applications; include an "R" at the end of the catalog number
- Fusible or non-fusible
- Fusible and non-fusible switches are 100% load break and 100% load make rated

- Suitable for service entrance applications unless otherwise noted
- 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
- Wiring configuration from factory allows a single load to be supplied by a normal or alternate source. 30–800A can be field modified to allow two loads to be alternately supplied by a single power source, except for stacked design double-throw switches

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Type Visi-Flex DE-ION	V2-T1-101
Flange Mounted—Variable Depth	V2-T1-105
Flange Mounted—Fixed Depth	V2-T1-109

Features, Benefits and Functions

- Ample wire bending space provides for easier installation
- Visible double-break quick-make, quick-break rotary blade mechanism. Two points of contact provide a positive open and close, easier operation, and also help prevent contact burning for longer contact life
- Triple padlocking capability. Personnel safety feature since the large hasp can accommodate up to three 3/8-inch (9.5 mm) shank locks. Clearly visible handle. The position (ON or OFF) can be clearly seen from a distance
- Deionizing arc chutes; arc chutes confine and suppress the arcs produced by opening contacts under load
- Additional locking capability; cabinet door can be further padlocked at the top and bottom
- Clear line shield (provided on fusible double-throw) protects against accidental contact with energized parts. Probe holes enable the user to test if the line side is energized without removing the shield
- Tangential knockouts on sides, top and bottom. Enables any size of conduit to be mounted close to the wall, providing for cable installation closer to the wall and a neat appearance

Standards and Certifications

- UL listed switching neutral capability is available on three-pole and four-pole non-fusible double-throw switches with the installation of the proper bonding kit shown on **Page V2-T1-13**
- Suitable for use as a manually operated switch per 2005 NEC Article 702

- UL listed File No. E5239
- UL 98
- NEMA Std KS-1



Seismic Qualifications

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



Product Selection

DT223URH-N Compact Design



240 Vac General-Duty, Non-Fusible, Compact Design, Double-Throw

Ampere Rating Main and Standby	NEMA 3R Enclosure Rainproof Catalog Number	Ampere Rating Main and Standby	NEMA 3R Enclosure Rainproof Catalog Number
Two-Pole—240 Vac		Two-Pole, Three-Wire—240 Vac—Solid Neutral	
30	DT221URH	30	DT221URH-N
60	DT222URH	60	DT222URH-N
100	DT223URH	100	DT223URH-N

DT224URK-NPS



240 Vac General-Duty, Non-Fusible, Compact Design, Double-Throw

Ampere Rating Main and Standby	Maximum Horsepower Ratings						DC 250V	NEMA 3R Enclosure Rainproof Catalog Number
	Single-Phase AC			Three-Phase AC				
	240V	480V	600V	240V	480V	600V		
Two-Pole—240 Vac—250 Vdc								
30	3	—	—	—	—	—	5	DT221URKPS
60	1	—	—	—	—	—	10	DT222URKPS
100	20	—	—	—	—	—	20	DT223URKPS
200	15	—	—	—	—	—	40	DT224URKPS
400	—	—	—	—	—	—	50	DT225URKPS
Two-Pole, Three-Wire—240 Vac—250 Vdc, Solid Neutral								
30	3	—	—	—	—	—	5	DT221URK-NPS
60	10	—	—	—	—	—	10	DT222URK-NPS
100	20	—	—	—	—	—	20	DT223URK-NPS
200	15	—	—	—	—	—	40	DT224URK-NPS
400	—	—	—	—	—	—	50	DT225URK-NPS

240 Vac Heavy-Duty, Fusible, Double-Throw

Ampere Rating Main and Standby	Fuse Class Provision	Maximum Horsepower Ratings with Time Delay Fuses							DC 250V	NEMA 1 Enclosure Indoor Catalog Number	NEMA 3R Enclosure Rainproof Catalog Number	NEMA 12 Enclosure Industrial, Dust-Tight Catalog Number	NEMA 4X Enclosure Corrosion-Resistant Stainless-Steel Catalog Number
		Single-Phase AC			Three-Phase AC								
		240V	480V	600V	240V	480V	600V						
Two-Pole—240 Vac—250 Vdc													
200	H	15	—	—	—	—	—	40	DT224FGK	DT224FRK	—	—	
Three-Pole—240 Vac—250 Vdc													
30	H	3	—	—	7-1/2	—	—	5	DT321FGK	DT321FRK	—	DT321FWK	
60	H	10	—	—	15	—	—	10	DT322FGK	DT322FRK	—	DT322FWK	
100	H	15	—	—	30	—	—	20	DT323FGK	DT323FRK	—	DT323FWK	
200	H	15	—	—	60	—	—	40	DT324FGK	DT324FRK	—	DT324FWK	
400	H	—	—	—	125	—	—	50	DT325FGK	DT325FRK	—	DT325FWK	
600	J	—	—	—	50	—	—	50	DT326FGK ^①	DT326FRK ^①	—	—	
800	L	—	—	—	—	—	—	—	DT327FGK ^①	DT327FRK ^①	—	—	
1200	L	—	—	—	—	—	—	—	DT328FGK	DT328FRK	—	—	

Note

① Available as one source 2 load application by adding "R" to the end of the catalog number.

UL listed switching neutral capability is available on three-pole and four-pole non-fusible double-throw switches with the installation of the proper bonding kit shown on **Page V2-T1-13**. See **Page V2-T1-15** for factory installation from the Flex Center.

DT363FGK

600 Vac Heavy-Duty, Fusible, Double-Throw



Ampere Rating Main and Standby	Fuse Class Provision	Maximum Horsepower Ratings with Time Delay Fuses					NEMA 1 Enclosure Indoor Catalog Number	NEMA 3R Enclosure Rainproof Catalog Number	NEMA 12 Enclosure Industrial, Dust-Tight Catalog Number	NEMA 4X Enclosure Corrosion-Resistant, Stainless Steel Catalog Number
		Single-Phase AC		Three-Phase AC		DC				
		480V	600V	480V	600V	250V				
Three-Pole—600 Vac—250 Vdc										
30	H	7-1/2	10	15	20	—	DT361FGK	②	②	DT361FWK
60	H	20	25	30	50	—	DT362FGK	②	②	DT362FWK
100	H	30	40	60	75	—	DT363FGK	DT363FRK	②	DT363FWK
200	H	50	50	125	150	40	DT364FGK	DT364FRK	②	DT364FWK
400	T	—	—	250	350	50	DT365FGK	DT365FRK	—	DT365FWK
600	J	—	—	—	—	—	DT366FGK ①	DT366FRK ①	—	—
800	L	—	—	—	—	—	DT367FGK ①	DT367FRK ①	—	—
1200	L	—	—	—	—	—	DT368FGK	DT368FRK	—	—

DT363URK

600 Vac Heavy-Duty, Non-Fusible, Double-Throw



Ampere Rating Main and Standby	Maximum Horsepower Ratings					NEMA 1 Enclosure Indoor Catalog Number	NEMA 3R Enclosure Rainproof Catalog Number	NEMA 12 Enclosure Industrial, Dust-Tight Catalog Number	NEMA 4X Enclosure Corrosion-Resistant, Stainless Steel Catalog Number
	Single-Phase AC		Three-Phase AC		DC				
	480V	600V	480V	600V	250V				
Two-Pole—600 Vac—250 Vdc									
30	7-1/2	10	—	—	5	DT261UGK	②	—	—
60	20	25	—	—	10	DT262UGK	②	—	—
100	40	50	—	—	20	DT263UGK	②	—	—
200	50	50	—	—	40	DT264UGK ③	DT264URK ③	—	—
400	—	—	—	—	50	DT265UGK	DT265URK	—	—
600	—	—	—	—	50	DT266UGK	DT266URK	—	—
800	—	—	—	—	50	DT267UGK	DT267URK	—	—
1200	—	—	—	—	50	DT268UGK	DT268URK	—	—
Three-Pole—600 Vac—250 Vdc									
30	7-1/2	10	20	30	5	DT361UGK	DT361URK	DT361UDK ④	DT361UWK
60	20	25	50	60	10	DT362UGK	DT362URK	DT362UDK ④	DT362UWK
100	40	50	75	100	20	DT363UGK	DT363URK	DT363UDK ④	DT363UWK
200	50	50	125	150	40	DT364UGK	DT364URK	DT364UDK ④	DT364UWK
400	—	—	250	350	50	DT365UGK	DT365URK	DT365UDK ④	DT365UWK
600	—	—	250	350	50	DT366UGK	DT366URK	②④	②
800	—	—	250	350	50	DT367UGK	DT367URK	—	—
1200	—	—	250	350	50	DT368UGK	DT368URK	—	—

Notes

- ① Available as one source 2 load application by adding "R" to the end of the catalog number.
 - ② Contact the Safety Switch Flex Center (1-888-329-9272 or FlexSwitches@eaton.com) for availability of this product.
 - ③ Rated 600 Vdc, 50 hp in addition to ratings shown in table.
 - ④ NEMA 12 enclosures (30–1200A) can be field modified to meet NEMA 3R rainproof requirements when a factory provided drain hole is opened.
- UL listed switching neutral capability is available on three-pole and four-pole non-fusible double-throw switches with the installation of the proper bonding kit shown on **Page V2-T1-13**. See **Page V2-T1-15** for factory installation from the Flex Center.

DT363URK



600 Vac Heavy-Duty, Non-Fusible, Double-Throw

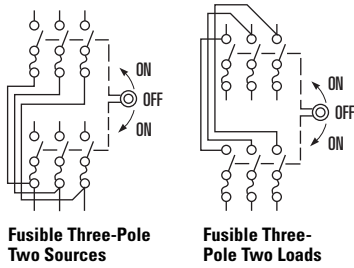
Ampere Rating Main and Standby	Maximum Horsepower Ratings					NEMA 1 Enclosure Indoor Catalog Number	NEMA 3R Enclosure Rainproof Catalog Number	NEMA 12 Enclosure Industrial, Dust-Tight Catalog Number	NEMA 4X Enclosure Corrosion-Resistant, Stainless Steel Catalog Number
	Single-Phase AC 480V	600V	Three-Phase AC 480V		600V				
Four-Pole—600 Vac—250 Vdc ^①									
30	7-1/2	10	20	30	5	②	DT461URK	②	②
60	20	25	50	60	10	②	DT462URK	②	②
100	40	50	75	100	20	②	DT463URK	②	②
200	—	50	125	150	40	DT464UGK	DT464URK	②	②
400	—	—	250	350	50	DT465UGK	DT465URK	②	②
600	—	—	250	350	50	DT466UGK	DT466URK	②	②
800	—	—	250	350	50	DT467UGK	DT467URK	②	②
Six-Pole—600 Vac—250 Vdc ^①									
30	7-1/2	10	15	30	5	②	DT661URK	②	②
60	20	25	50	60	10	②	DT662URK	②	②
100	40	50	75	100	20	②	DT663URK	②	②

Notes

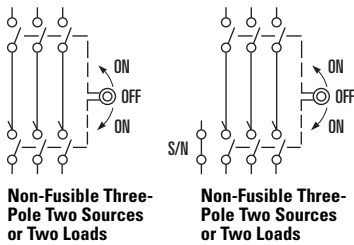
- ① Field installable neutral kit is not available. If a neutral is required, order the catalog number shown in the table with "N" suffix.
 - ② Contact the Safety Switch Flex Center (1-888-329-9272 or FlexSwitches@eaton.com) for availability of this product.
- UL listed switching neutral capability is available on three-pole and four-pole non-fusible double-throw switches with the installation of the proper bonding kit shown on **Page V2-T1-13**. See **Page V2-T1-15** for factory installation from the Flex Center.

Technical Data and Specifications

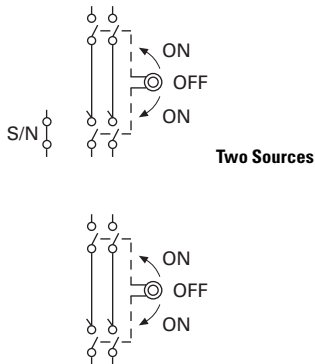
Typical Fusible, Double-Throw Schematic Diagram



Typical Non-Fusible, Double-Throw Schematic Diagram



Typical General-Duty, Double-Throw Schematic Diagrams (with and without factory-installed neutral)



Short-Circuit Ratings Using Class "R", "J", "L" or "T" Fusing Where Applicable

Ampere Rating	Voltage Ratings			
	Type 1	Type 3R	Type 12	Type 4 and 4X
30	100k at 600	100k at 600	100k at 600	100k at 600
60	100k at 600	100k at 600	100k at 600	100k at 600
100	100k at 600	100k at 600	100k at 600	100k at 600
200	100k at 600	100k at 600	100k at 600	100k at 600
400	100k at 600	100k at 600	100k at 600	100k at 600
600	100k at 600	100k at 600	100k at 600	100k at 600
800	100k at 600	100k at 600	—	—
1200	100k at 600	100k at 600	—	—

Dimensions

Approximate Dimensions in Inches (mm)

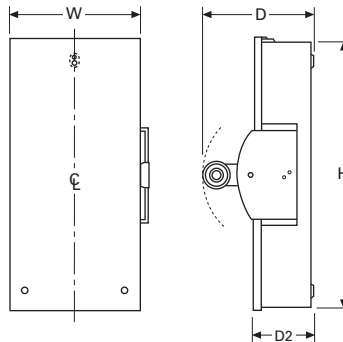
General-Duty, Non-Fusible, 240V, Two-Pole Solid Neutral, Double-Throw, Compact Design

Ampere Rating	Height (H)	Width (W)	Depth (D)	Depth (D2)	Weight Lbs (kg)
NEMA 3R					
30	14.69 (373.1)	9.63 (244.6)	10.81 (274.6)	5.23 (132.8)	12 (5.5)
60	14.69 (373.1)	9.63 (244.6)	10.81 (274.6)	5.23 (132.8)	12 (5.5)
100	14.69 (373.1)	9.63 (244.6)	10.81 (274.6)	5.23 (132.8)	12 (5.5)

General-Duty, Non-Fusible, 240V, Two-Pole Solid Neutral, Double-Throw, Quick-Make, Quick-Break Design

Ampere Rating	Height (H)	Width (W)	Depth (D)	Depth (D2)	Weight Lbs (kg)
NEMA 3R					
30	24.63 (625.6)	11.94 (303.3)	9.88 (251.0)	5.38 (136.7)	34 (15.4)
60	24.63 (625.6)	11.94 (303.3)	9.88 (251.0)	5.38 (136.7)	34 (15.4)
100	24.63 (625.6)	11.94 (303.3)	9.88 (251.0)	5.38 (136.7)	34 (15.4)
200	37.38 (949.5)	19.56 (496.8)	11.25 (285.8)	6.10 (154.9)	80 (36.3)
400	53.81 (1366.8)	23.13 (587.5)	12.50 (317.6)	8.88 (225.6)	140 (63.6)

NEMA 3R, 30–400A, General-Duty, Non-Fusible, Double-Throw



Notes

Class "H" fuse clips supplied as standard for 30–400A except Class "T" for 400A at 600V. Rated at 10,000 rms symmetrical when using Class "H" fuses.

Table is not applicable to the compact design shown on [Page V2-T1-47](#). The compact design is suitable for use on a circuit capable of delivering not more than 10,000 rms symmetrical amperes.

Class "R" fuse adapter kits are shown on [Page V2-T1-13](#). Individual adapter kits are applicable as shown on [Page V2-T1-13](#) and yield the short-circuit ratings per the tables above when Class "R" fuses are installed. When installed, Class "R" fuse adapter kits reject all fuses except Class "R."

Class "J" fuse provisions can be obtained on most 60–400A safety switches by moving the fuse base to a new position as instructed by the device publication label. Class "J" fuse adapter kits, where needed, are shown on [Page V2-T1-13](#) and yield the short-circuit ratings per the tables above when Class "J" fuses are installed. Class "J" fuse provisions must be factory installed on 30A heavy-duty switches. Catalog numbers are shown in table on [Page V2-T1-15](#). Class "J" fusing is not applicable on 30–200A general-duty switches, 30–100A double-throw switches, and any switch higher than 600A.

Class "T" fuse adapter kits are shown on [Page V2-T1-13](#). Individual adapter kits are applicable to 200–800A switches as shown on [Page V2-T1-13](#) and yield the short-circuit ratings per the tables to the left when Class "T" fuses are installed. On 1200A switches, Class "T" fuse provisions can be obtained by moving the fuse base to a new position as instructed by the device publication label.

Approximate Dimensions in Inches (mm)

Heavy-Duty, Non-Fusible, 240V and 600V, Three-Pole, Double-Throw

Ampere Rating	Width (W)	Height (H)	Depth (D)	Depth (D2)	Weight Lbs (kg)
NEMA 1, 3R					
30	11.94 (303.3)	24.63 (625.6)	9.88 (251.0)	5.38 (136.7)	34 (15.436)
60	11.94 (303.3)	24.63 (625.6)	9.88 (251.0)	5.38 (136.7)	34 (15.436)
100	11.94 (303.3)	24.63 (625.6)	9.88 (251.0)	5.38 (136.7)	34 (15.436)
200	19.56 (496.8)	37.38 (949.5)	11.25 (285.8)	6.10 (154.9)	80 (36.32)
400	23.13 (587.5)	53.81 (1366.8)	12.50 (317.5)	7.25 (184.2)	140 (63.56)
600	27.44 (697.0)	63.31 (1608.1)	14.13 (358.9)	8.88 (225.6)	175 (79.45)
800	27.44 (697.0)	63.31 (1608.1)	14.13 (358.9)	8.88 (225.6)	175 (79.45)
1200	42.62 (1082.5)	78.11 (1984.0)	29.62 (752.3)	20.47 (519.9)	473 (214.6)

NEMA 12, 4X Stainless Steel

30	12.00 (304.8)	25.88 (657.4)	10.25 (260.4)	5.50 (139.7)	60 (27.24)
60	12.00 (304.8)	25.88 (657.4)	10.25 (260.4)	5.50 (139.7)	60 (27.24)
100	12.00 (304.8)	25.88 (657.4)	10.25 (260.4)	5.50 (139.7)	60 (27.24)
200	19.50 (495.3)	41.00 (1041.4)	11.63 (295.4)	6.48 (164.6)	105 (47.67)
400	23.00 (584.2)	57.50 (1460.5)	12.50 (317.5)	7.25 (184.2)	185 (83.99)

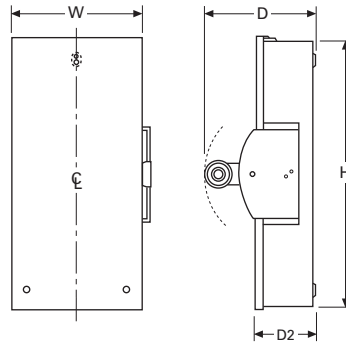
Heavy-Duty, Fusible, 240V and 600V, Three-Pole, Double-Throw

Ampere Rating	Width (W)	Height (H)	Depth (D)	Depth (D2)	Weight Lbs (kg)
NEMA 1, 3R					
30	11.94 (303.3)	36.63 (930.4)	9.88 (251.0)	5.38 (136.7)	44 (19.976)
60	11.94 (303.3)	36.63 (930.4)	9.88 (251.0)	5.38 (136.7)	44 (19.976)
100	11.94 (303.3)	36.63 (930.4)	9.88 (251.0)	5.38 (136.7)	44 (19.976)
200	19.56 (496.8)	50.88 (1292.4)	11.25 (285.8)	6.10 (154.9)	95 (43.13)
400	25.38 (644.7)	74.75 (1898.7)	14.13 (358.9)	8.88 (225.6)	230 (104.42)
600	28.12 (714.3)	58.86 (1495.0)	25.62 (650.7)	20.47 (520.0)	282 (127.9)
800	28.12 (714.2)	58.86 (1495.0)	25.62 (650.7)	20.47 (519.9)	282 (127.9)
1200	42.62 (1082.5)	78.11 (1984.0)	29.62 (752.3)	20.47 (519.9)	509 (230.9)

NEMA 12, 4X Stainless Steel

30	12.00 (304.8)	39.81 (1011.2)	10.25 (260.4)	5.50 (139.7)	45 (20.43)
60	12.00 (304.8)	39.81 (1011.2)	10.25 (260.4)	5.50 (139.7)	45 (20.43)
100	12.00 (304.8)	39.81 (1011.2)	10.25 (260.4)	5.50 (139.7)	45 (20.43)
200	19.56 (496.8)	55.63 (1413.0)	11.63 (295.4)	6.46 (164.1)	100 (45.4)
400	25.38 (644.7)	74.75 (1898.7)	14.13 (358.9)	8.92 (226.6)	260 (118.04)

NEMA 1, 3R Double-Throw 30-1200A



NEMA 12, 4X Double-Throw 30-400A

