

Technical Data and Specifications for Heavy Duty Window Switch

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

Ampere Rating	Voltage Ratings			
	Type 1	Type 3R	Type 12	Type 4 and 4X
30	200k at 600	200k at 600	200k at 600	200k at 600
60	200k at 600	200k at 600	200k at 600	200k at 600
100	200k at 480 100k at 600	200k at 480 100k at 600	200k at 600	200k at 600
200	200k at 600	200k at 600	200k at 600	200k at 600
400	200k at 480 100k at 600	200k at 480 100k at 600	200k at 480 100k at 600	200k at 480 100k at 600
600	200k at 480 100k at 600	200k at 480 100k at 600	200k at 480 100k at 600	200k at 480 100k at 600
800	200k at 480 100k at 600	200k at 480 100k at 600	200k at 480 100k at 600	200k at 480 100k at 600
1200	200k at 600	200k at 600	200k at 600	200k at 600

Note

Class "H" fuse clips supplied as standard for 30–600A. Class "L" fuse clips supplied as standard for 800–1200A. Rated at 10,000 rms symmetrical when using Class "H" fuses.

Fuse Class Adaptation

Safety Switch Type	Standard Fuse Class Clips Supplied with Switch	Adaptable to Accept the Following Fuse Class		
		R	J	T
		Heavy Duty	H 30-600A L 800-1200A	30A-600A

Note: For 'J' Fusing on 240V Heavy Duty Switches Field Modification Required. 30-60 amperes not available.

100-400 amperes, reposition loadside fuse block to accept 'J' fuse.
600 amperes adapter kit included with switch.

For 'R' fuse rejector adapter kit and 'T' fuse adapter kit see accessory options on page 5.

Note: For 'J' fusing on 600V Heavy Duty Switches Field Modification Required.

30-60 amperes, reposition fuse clips on loadside of fuse base.
100-400 amperes, reposition loadside fuse block to accept 'J' fuse.

600 amperes adapter kit included with switch.
For 'R' fuse rejector adapter kit and 'T' fusing see page 5 accessory application options.

Window Replacement Kit (for 30-100A switches built after August 2003)

30-60A	Type 12, 4X	70-85643-3
100A	Type 12, 4X	70-8564
30-60A	EnviroLine	70-8564-2
100A	EnviroLine	70-8564-4

UL/CSA Recognized Non-Fusible Safety Switch/Circuit Breaker Series-Connected Ratings

Eaton 30-200A non fusible safety switch withstand ratings when protected with circuit breakers

Non-Fusible Safety Switch Ampere Rating	Max System Voltage AC	Number of Poles Switched	Maximum fault level available at upstream circuit breaker (kA RMS symmetrical)	Circuit Breaker Frame(s)	
30A & 60A	600	2, 3, 4, 6	25,000	FDC, HFD, HFDE, EGH	
		2, 3, 4, 6	18,000	FD, EGE	
		2, 3, 4, 6	14,000	FDB	
		2, 3, 4, 6	10,000	Any manufacturer or Eaton breaker type	
	100A	600	2, 3, 4, 6	25,000	FDC, HFD, HFDE, EGH
			2, 3, 4, 6	18,000	FD, EGE
		480	2, 3, 4, 6	14,000	FDB
			2, 3, 4, 6	10,000	Any manufacturer or Eaton breaker type
200A	600	2, 3, 4, 6	25,000	FDC, HFD, HFDE, HJD, JGH	
		2, 3, 4, 6	18,000	FD, JD, JGE	
		2, 3, 4, 6	14,000	FDB	
		2, 3, 4, 6	10,000	Any manufacturer or Eaton breaker type	
	480	600	2, 3, 4, 6	65,000	HFD, HFDE, HJD, JGH
			2, 3, 4, 6	10,000	Any manufacturer or Eaton breaker type

Dimensions

Approximate Dimensions in Inches (mm)

Note: Dimensions are for estimating purposes only.

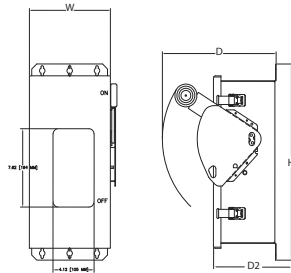
Heavy-Duty, Non-Fusible, 600V, Three-Pole, Single-Throw with Window

Ampere Rating	Width (W)	Height (H)	Depth (D)	Depth (D2)	Weight Lbs (kg)
30	8.8 (224)	19.08 (485)	11.44 (291)	6.30 (160)	18 (8.18)
60	8.8 (224)	19.08 (485)	11.44 (291)	6.30 (160)	18 (8.18)
100	11.84 (301)	24.95 (634)	11.44 (291)	6.30 (160)	30 (13.64)
200	16.95 (430)	35.38 (899)	11.63 (295)	6.44 (164)	55 (24.97)
400	24.12 (612)	57.47(1460)	12.43 (316)	7.19 (183)	125 (56.75)
600	25.12 (638)	63.00 (1600)	13.92 (353)	8.91 (226)	167 (75.82)
800	25.34 (644)	71.75 (1823)	13.92 (353)	8.91 (226)	175 (79.45)
1200	41.47 (1053)	70.31 (1786)	19.94 (507)	13.50 (343)	519 (231.54)

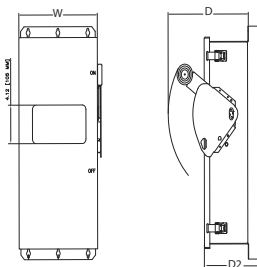
Note:

For 6 pole switches with windows, refer to page 40 for dimensions - NOTE 30, 60A same as 100A dimensions
 For DT (Double Throw) switches with windows refer to page 40 for dimensions.
 Type 12 enclosures (30-1200A) can be field modified to meet Type 3R rainproof requirements when factory provided drain hole is opened.

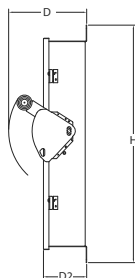
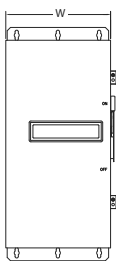
Type 12, 4X 30-60A



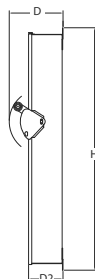
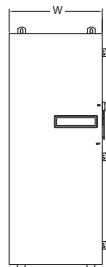
Type 12, 4X 100A



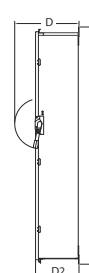
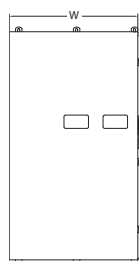
Type 12, 4/4X 200A



Type 12, 4/4X 400A - 800A



Type 12, 4/4X 1200A



Heavy-Duty, Fusible, 240V and 600V, Three-Pole Single-Throw, with Window

Ampere Rating	Width (W)	Height (H)	Depth (D)	Depth (D2)	Weight Lbs (kg)
30	8.8 (224)	19.08 (485)	11.44 (291)	6.30 (160)	18 (8.18)
60	8.8 (224)	19.08 (485)	11.44 (291)	6.30 (160)	18 (8.18)
100	11.84 (301)	24.95 (634)	11.44 (291)	6.30 (160)	30 (13.64)
200	16.95 (430)	35.38 (899)	11.63 (295)	6.44 (164)	55 (24.97)
400	24.12 (612)	57.47(1460)	12.43 (316)	7.19 (183)	125 (56.75)
600	25.12 (638)	63.00 (1600)	13.92 (353)	8.91 (226)	167 (75.82)
800	25.34 (644)	71.75 (1823)	13.92 (353)	8.91 (226)	175 (79.45)
1200	41.47 (1053)	70.31 (1786)	19.94 (507)	13.50 (343)	519 (231.54)

Terminal Capacity for Heavy Duty Safety Switch 600V Max

Ampere	Line/Load Terminal Capacity (per phase)	Ground Terminal Capacity	Neutral Catalogue #	Neutral Terminal Capacity
30	#14 - #2	#14 - 4	DH030NK	4x #14 - #2
60	#14 - #2	#14 - 4	DH030NK	4x #14 - #2
100	#14 - 1/0	#14 - 4	DH100NK	2x #14-#2 AND 2x #14 - 1/0
200 (Type 12 & 4X)	#6 - 300mcm	#14 - #4	DH200NK	2x #6 - 300mcm AND 2x #14 - #2
400	(2) 1/0 - (2)300mcm OR (1) 1/0 - 750mcm	#6 - 250mcm	DS400NK	2X 1/0 - 750mcm OR (2)1/0 - (2)300mcm AND 3x#6 - 250mcm
600	(1)#2 - 600mcm AND (1) 1/0 - 750mcm	#6 - 250mcm	DS600NK	2 x 1/0 - (1)750mcm OR 1/0 - (2) 300mcm AND 1 x #2 - 600mcm AND 3 x #6 - 250mcm
800	(4) 3/0 - (4)750mcm	#6 - 250mcm	DS800NK	2 X (4)3/0 - (4)750mcm AND 3 x #6 - 250mcm
1200	(4) 1/0 - (4)750mcm	#6 - 250mcm	DS800NK	2 X (4)3/0 - (4)750mcm AND 3 x #6 - 250mcm

Note

* Order neutral catalogue number when neutral required and not included with switch.

All terminals are rating al/cu unless otherwise noted.

Ground terminal is standard on all switches. For optional ground lug kits or copper lug kits see page 5 and 6