

Heavy-Duty Safety Switch



Contents

<i>Description</i>	<i>Page</i>
Selection Guide	2
Product Overview	3
Catalogue Configurator	4
Options and Accessories	5
Technical Data and Specifications	7
Standard Terminal Capacities	7
Fuse Dimensions	8
Short Circuit Ratings	10
Flex/Satellite Modifications	12
Air Condition Disconnects	15
General Duty Switches	18
Heavy Duty Switches	22
Product Description, Features	22
Standards and Certifications	23
Product Selection	24
Technical Data and Dimensions	30
Heavy Duty Six-Pole Switches	32
Heavy Duty Double Throw Switches	35
Enviroline Switches	41
Heavy Duty Window Switches	44
Heavy Duty Receptacle Switches	48
Heavy Duty Voltage Indicator Switches	52
Hazardous Location Switches	54
Heavy Duty Quick Connect Switches	56
Solar Switches	60
Zone Blasting Switches	64
Elevator Control Switches	66
Grounding Switches	68
Enclosed Motor Disconnects	70
Pringle Bolted Pressure Switches	78
OEM Operating Mechanisms	85
CSA Enclosure Designations	91

Heavy-Duty

Application Description

For light to heavy commercial and industrial applications. Main service entrance, branch and motor circuit protection, disconnecting or transferring to alternate power source. Where reliable performance and service continuity are critical.

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%

- continuous load rated
- Fusible switches suitable for service entrance applications unless otherwise noted
- Enclosures, Type 1, 3R, 12/3R, 4 are painted steel ANSI 61 light grey electrocoat. and 4X are grade 304 stainless steel, grade 316 available upon request.
- For factory modifications, refer to **Pages 12 through 14**

240 Vac Heavy-Duty, Fusible, Single-Throw

- 30–1200A
- Horsepower rated
- Fusible switches suitable for service entrance use, except four-pole switches
- For accessories refer to **Pages 5 and 6**

600 Vac Heavy-Duty, Fusible, Single-Throw

- 30–1200A
- Horsepower rated
- Suitable for service entrance use, except four pole switches.
Note: Must use suitable ground fault protection @ 1200 Ampere for service entrance.

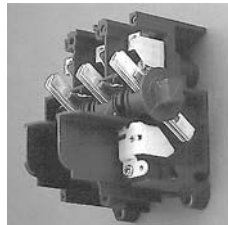
600 Vac Heavy-Duty, Non-Fusible, Single-Throw

- 30–1200A
- Horsepower rated
- Not suitable for service entrance per CEC

Features, Benefits and Functions

- 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

- 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

- Triple padlocking capability. Personnel safety feature since the large hasp can accommodate up to three 3/8-inch (9.5 mm) shank locks. Cabinet door can be further padlocked at the top and bottom

- Interlocking mechanism. Door cannot be opened when the handle is in the ON position. Built-in def eater mechanism provides for user access when necessary

- 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

- Clear line shield with probe holes

- Clearly visible palm fitting red handle

- Tangential knockouts on Type 1 and Type 3R enclosures through 200A

- Built-in fuse pullers on Type 4X and Type 12 enclosures through 200A

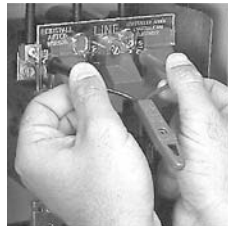
- Additional door locking capability

- Complete accessory and renewal parts data shown on inner door label.

- 30–1200A Type 12 designs convertible to Type 3R by opening factory-installed drain hole

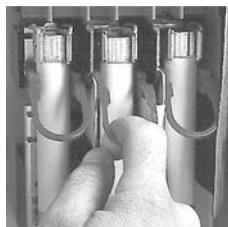
- 30–1200A switches are seismic qualified and exceed the requirements of the Uniform Building CodeT (UBC) and California Code Title 24

- Protects against accidental contact with energized parts. Probe holes enable the user to test if the line side is energized without removing the shield.



Clear Line Shield

- Provide easy removal of fuses



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

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



Clearly Visible Handle

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



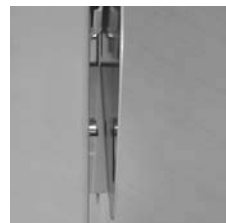
Triple Padlocking Capability

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



Additional Locking Capability

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



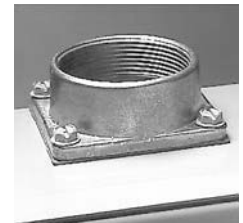
Interlocking Mechanism

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



Tangential Knockouts

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



Bolt-On Hub Kits

- Type 12 and 4X 30–100A have padlockable suitcase latches vs screw type latches.



Padlockable Suitcase Latches

Standards and Certifications

- CSA Certified File No. 69743
- Meets C22.2 No. 4 for enclosed switches
- Refer to page 2 for additional certifications
- ISO 9001:2008



Switching Devices

Safety Switches

Product Selection

3HD221N



240 Vac Heavy-Duty, Fusible, Single-Throw, Fusible—Type 1, 3R

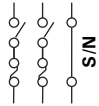
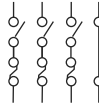

System	Ampere Rating	Fuse Type Provision	Maximum Horsepower Ratings AC		Time Delay		DC 250V	Type 1 Enclosure Indoor Catalogue Number	Type 3R Enclosure Rainproof Catalogue Number
			Standard Fuse Single-Phase	Three-Phase	Single-Phase	Three-Phase			
Three-Wire (Two Blades, Two Fuses, S/N)—240 Vac, 250 Vdc									
	30	H	1-1/2	3	3	7-1/2	5	1HD221N	3HD221N
	60	H	3	7-1/2	10	15	10	1HD222N	3HD222N
	100	H	7-1/2	15	15	30	20	1HD223N	3HD223N
	200	H	15	25	15	60	40	1HD224N	3HD224N
	400	H	—	50	—	125	50	1HD225N	3HD225N
	600	H	—	75	—	200	—	1HD226N	3HD226N
	800	L	—	100	—	—	—	1HD227N	3HD227N
Four-Wire (Three Blades, Three Fuses, S/N)—240 Vac, 250 Vdc									
	30	H	1-1/2	3	3	7-1/2	5	1HD321N	3HD321N
	60	H	3	7-1/2	10	15	10	1HD322N	3HD322N
	100	H	7-1/2	15	15	30	20	1HD323N	3HD323N
	200	H	15	25	15	60	40	1HD324N	3HD324N
	400	H	—	50	—	125	50	1HD325N	3HD325N
	600	H	—	75	—	200	—	1HD326N	3HD326N
	800	L	—	100	—	250	—	1HD327N	3HD327N
Four-Pole—240 Vac, 250 Vdc									
	30	H	3	3	10	7-1/2	5	1HD421	①
	60	H	7-1/2	7-1/2	20	15	10	1HD422	①
	100	H	15	15	30	30	20	1HD423	①
	200	H	30	25	50	60	40	1HD424	①
	400	H	50	50	—	125	50	1HD425	①②
	600	H	—	75	—	200	—	1HD426	①③

Notes

- ① Type 12 enclosures (30–1200A) can be field modified to meet Type 3R rainproof requirements when a factory provided drain hole is opened.
- ② Contact Customer Support (1-800-268-3578) for availability of this product.
- ③ Type 4x stainless steel enclosure.
- ④ Type 4 painted steel enclosure.

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' fusing see page 5 accessory application options.

240 Vac Heavy-Duty, Fusible, Single-Throw, Fusible—Type 12/3R^①, 4X^③, and 4^④

System	Ampere Rating	Fuse Type Provision	Maximum Horsepower Ratings AC		Time Delay		DC 250V	Type 12/3R ^① Enclosure Dust-Tight Catalogue Number	Type 4X and 4 ^④ Enclosure Watertight Catalogue Number
			Standard Fuse Single-Phase	Three-Phase	Single-Phase	Three-Phase			
Three-Wire (Two Blades, Two Fuses, S/N)—240 Vac, 250 Vdc									
	30	H	1-1/2	3	3	7-1/2	5	12HD221N ^①	4HD221N ^③
	60	H	3	7-1/2	10	15	10	12HD222N ^①	4HD222N ^③
	100	H	7-1/2	15	15	30	20	12HD223N ^①	4HD223N ^③
	200	H	15	25	15	60	40	12HD224N ^①	4HD224N ^③
	400	H	—	50	—	125	50	12HD225N ^①	4HD225N ^④
	400	H	—	50	—	125	50	—	4HD225N ^④
	600	H	—	75	—	200	—	12HD226N ^①	4HD226N ^④
	600	H	—	75	—	200	—	—	4HD226N ^④
	800	L	—	100	—	250	—	12HD227N ^①	4HD227N ^④
	800	L	—	100	—	250	—	—	4HD227N ^④
Four-Wire (Three Blades, Three Fuses, S/N)—240 Vac, 250 Vdc									
	30	H	1-1/2	3	3	7-1/2	5	12HD321N ^①	4HD321N ^③
	60	H	3	7-1/2	10	15	10	12HD322N ^①	4HD322N ^③
	100	H	7-1/2	15	15	30	20	12HD323N ^①	4HD323N ^③
	200	H	15	25	15	60	40	12HD324N ^①	4HD324N ^③
	400	H	—	50	—	125	50	12HD325N ^①	4HD325N ^④
	400	H	—	50	—	125	50	—	4HD325N ^④
	600	H	—	75	—	200	—	12HD326N ^①	4HD326N ^④
	600	H	—	75	—	200	—	—	4HD326N ^④
	800	L	—	100	—	250	—	12HD327N ^①	4HD327N ^④
	800	L	—	100	—	250	—	—	4HD327N ^④
	1200	L	—	—	—	—	—	12HD328N ^①	4HD328N ^④
	1200	L	—	—	—	—	—	—	4HD328N ^④
Four-Pole—240 Vac, 250 Vdc									
	30	H	3	3	10	7-1/2	5	12HD421F ^①	②
	60	H	7-1/2	7-1/2	20	15	10	12HD422F ^①	②
	100	H	15	15	30	30	20	12HD423F ^①	②
	200	H	30	25	50	60	40	12HD424F ^①	②
	400	H	50	50	—	125	50	②	②
	400	H	50	50	—	125	50	②	②
	600	H	—	75	—	200	—	②	②
600	H	—	75	—	200	—	②	②	

Notes

- ① Type 12 enclosures (30–1200A) can be field modified to meet NEMA 3R rainproof requirements when a factory provided drain hole is opened.
- ② Contact Customer Support (1-800-268-3578) for availability of this product.
- ③ Type 4x stainless steel enclosure.
- ④ Type 4 painted steel enclosure.

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' fusing see page 5 accessory application options.



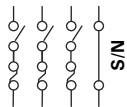
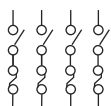
Switching Devices

Safety Switches

3HD362N



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

System	Ampere Rating	Fuse Class Provision	Maximum Horsepower Ratings with Time Delay Fuses						Type 1 Enclosure Indoor Catalogue Number	Type 3R Enclosure Rainproof Catalogue 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	1HD261	3HD261
	60	H	20	25	—	—	—	25	1HD262	3HD262
	100	H	30	40	—	—	20	25	1HD263	3HD263
	200	H	50	50	—	—	—	50	1HD264	3HD264
	400	H	—	—	—	—	50	50	1HD265	3HD265
	600	H	—	—	—	—	—	50	1HD266	3HD266
	800	L	—	—	—	—	—	—	1HD267 ^②	3HD267 ^②
	1200	L	—	—	—	—	—	—	③	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	—	—	1HD361	3HD361
	60	H	20	25	30	50	—	—	1HD362	3HD362
	100	H	30	40	60	75	—	—	1HD363	3HD363
	200	H	50	50	125	150	—	—	1HD364	3HD364
	400	H	—	—	250	350	—	—	1HD365	3HD365
	600	H	—	—	400	500	—	—	1HD366	3HD366
	800	L	—	—	500	500	—	—	1HD367	3HD367
	1200	L	—	—	500	500	—	—	1HD368 ^⑤	3HD368 ^⑤
Four-Wire (Three Blades, Three Fuses, S/N) 480 Vac—600 Vac, 250 Vdc										
	30	H	7-1/2	10	15	20	—	—	1HD361N	3HD361N
	60	H	20	25	30	50	—	—	1HD362N	3HD362N
	100	H	30	40	60	75	—	—	1HD363N	3HD363N
	200	H	50	50	125	150	—	—	1HD364N	3HD364N
	400	H	—	—	250	350	—	—	1HD365N	3HD365N
	600	H	—	—	400	500	—	—	1HD366N	3HD366N
	800	L	—	—	500	500	—	—	1HD367N	3HD367N
	1200	L	—	—	500	500	—	—	1HD368N ^⑤	3HD368N ^⑤
Four-Pole—480 Vac—600 Vac, 250 Vdc										
	30	H	20 ^④	25 ^④	15	20	—	—	1HD461	3HD461
	60	H	40 ^④	50 ^④	30	50	—	—	1HD462	3HD462
	100	H	50 ^④	50 ^④	60	75	—	—	1HD463	3HD463
	200	H	—	—	125	150	40	—	1HD464	3HD464
	400	H	—	—	250	350	50	—	1HD465	3HD465
	600	H	—	—	400	500	—	—	1HD466	3HD466
	800	L	—	—	—	—	—	—	③	③

Notes

- ① Type 12 enclosures (30–1200A) can be field modified to meet Type 3R rainproof requirements when a factory provided drain hole is opened.
- ② DC rating for 800A switches is 250V.
- ③ Contact Customer Support (1-800-268-3578) for availability of this product.
- ④ Ratings are for two-phase AC.
- ⑤ Must use suitable ground fault protection @1200A for service entrance.
- ⑥ Type 4X stainless steel enclosure.
- ⑦ Type 4 painted steel enclosure.

Note: For 'J' Fusing on 600V Heavy Duty Switches Field Modification Required.
 30-60 ampere reposition clips on loadside of fuse base.
 100-400 amperes, reposition loadside fuse base.
 600 amperes adapter kit included with switch.
 For 'R' fuse rejector adapter kit and 'T' fusing see page 5 accessory application options.

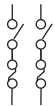
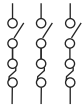
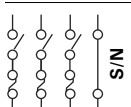
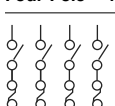
Switching Devices

Safety Switches

12HD361



600 Vac Heavy-Duty, Fusible, Single-Throw, 277/480–600V – Type 12/3R^①, 4X^④ and 4^⑦

System	Ampere Rating	Fuse Class Provision	Maximum Horsepower Ratings with Time Delay Fuses						Type 12/3R ^① Enclosure Dust-Tight Catalogue Number	Type 4X ^④ and 4 ^⑦ Enclosure Watertight, Catalogue 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	12HD261 ^①	4HD261 ^④
	60	H	20	25	—	—	—	25	12HD262 ^①	4HD262 ^④
	100	H	30	40	—	—	20	—	12HD263 ^①	4HD263 ^④
	200	H	50	50	—	—	—	50	12HD264 ^①	4HD264 ^④
	400	H	—	—	—	—	50	50	12HD265 ^①	4HD265SS ^④
	400	H	—	—	—	—	50	50	—	4HD265 ^⑦
	600	H	—	—	—	—	—	50	12HD266 ^①	4HD266SS ^④
	600	H	—	—	—	—	—	50	—	4HD266 ^⑦
	800	L	—	—	—	—	—	—	12HD267 ^{①②}	4HD267SS ^④
	800	L	—	—	—	—	—	—	—	4HD267 ^⑦
	1200	L	—	—	—	—	—	—	⑤③	⑤③
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	—	—	12HD361 ^①	4HD361 ^④
	60	H	20	25	30	50	—	—	12HD362 ^①	4HD362 ^④
	100	H	30	40	60	75	—	—	12HD363 ^①	4HD363 ^④
	200	H	50	50	125	150	—	—	12HD364 ^①	4HD364 ^④
	400	H	—	—	250	350	—	—	12HD365 ^①	4HD365SS ^④
	400	H	—	—	250	350	—	—	—	4HD365 ^⑦
	600	H	—	—	400	500	—	—	12HD366 ^①	4HD366SS ^④
	600	H	—	—	400	500	—	—	—	4HD366 ^⑦
	800	L	—	—	500	500	—	—	12HD367 ^①	4HD367SS ^④
	800	L	—	—	500	500	—	—	—	4HD367 ^⑦
	1200	L	—	—	500	500	—	—	12HD368 ^{①⑤}	4HD368SS ^{④⑤}
	1200	L	—	—	500	500	—	—	—	4HD368 ^{⑤⑦}
Four-Wire (Three Blades, Three Fuses, S/N) 480 Vac—600 Vac, 250 Vdc										
	30	H	7-1/2	10	15	20	—	—	12HD361N ^①	4HD361N ^④
	60	H	20	25	30	50	—	—	12HD362N ^①	4HD362N ^④
	100	H	30	40	60	75	—	—	12HD363N ^①	4HD363N ^④
	200	H	50	50	125	150	—	—	12HD364N ^①	4HD364N ^④
	400	H	—	—	250	350	—	—	12HD365N ^①	4HD365N ^④
	400	H	—	—	250	350	—	—	—	4HD365N ^⑦
	600	H	—	—	400	500	—	—	12HD366N ^①	4HD366N ^④
	600	H	—	—	400	500	—	—	—	4HD366N ^⑦
	800	L	—	—	500	500	—	—	12HD367N ^①	4HD367N ^④
	800	L	—	—	500	500	—	—	—	4HD367N ^⑦
	1200	L	—	—	500	500	—	—	12HD368N ^{①⑤}	⑤③
	1200	L	—	—	500	500	—	—	—	⑤③
Four-Pole—480 Vac—600 Vac, 250 Vdc										
	30	H	20 ^⑤	25 ^⑤	15	20	—	—	12HD461 ^①	4HD461 ^④
	60	H	40 ^⑤	50 ^⑤	30	50	—	—	12HD462 ^①	4HD462 ^④
	100	H	50 ^⑤	50 ^⑤	60	75	—	—	12HD463 ^①	4HD463 ^④
	200	H	—	—	125	150	40	—	12HD464 ^①	4HD464 ^④
	400	H	—	—	250	350	50	—	12HD456 ^①	③
	600	H	—	—	400	500	—	—	12HD466 ^①	③

See NOTES listed on Page 26.



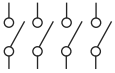
Switching Devices

Safety Switches

1HD362NF






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

System	Ampere Rating	Maximum Horsepower Ratings						DC		Type 1 Enclosure Indoor Catalogue Number	Type 3R ^① Enclosure Rainproof Catalogue Number
		Single-Phase AC			Three-Phase AC			250V	600V		
Two-Pole—480 Vac—600 Vac or Vdc ^②											
	30	3	7-1/2	10	—	—	—	—	15	1HD261NF	3HD261NF
	60	10	20	25	—	—	—	—	25	1HD262NF	3HD262NF
	100	20	30	40	—	—	—	20	25	1HD263NF	3HD263NF
	200	15	50	50	—	—	—	—	50	1HD264NF	3HD264NF
	400	—	—	—	—	—	—	50	50	1HD265NF	3HD265NF
	600	—	—	—	—	—	—	—	50	1HD266NF	3HD266NF
	800	—	—	—	—	—	—	—	—	1HD267NF ^②	3HD267NF ^②
1200	—	—	—	—	—	—	—	—	③	③	
Three-Pole—480 Vac—600 Vac, 250 Vdc											
	30	3	7-1/2	10	10	20	30	5	—	1HD361NF	3HD361NF
	60	10	20	25	20	50	60	10	—	1HD362NF	3HD362NF
	100	20	40	50	40	75	100	20	—	1HD363NF	3HD363NF
	200	15	50	50	60	125	150	40	—	1HD364NF	3HD364NF
	400	—	—	—	125	250	350	50	—	1HD365NF	3HD365NF
	600	—	—	—	200	400	500	—	—	1HD366NF	3HD366NF
	800	—	—	—	—	500	500	—	—	1HD367NF	3HD367NF
1200	—	—	—	—	500	500	—	—	1HD368NF	3HD368NF	
Four-Pole—480 Vac—600 Vac, 250 Vdc											
	30	10 ^④	20 ^④	25 ^④	10	20	30	5	—	1HD461NF	3HD461NF
	60	20 ^④	40 ^④	50 ^④	20	50	60	10	—	1HD462NF	3HD462NF
	100	40 ^④	50 ^④	50 ^④	40	75	100	20	—	1HD463NF	3HD463NF
	200	50 ^④	50 ^④	50 ^④	60	125	150	40	—	1HD464NF	3HD464NF
	400	50 ^④	—	—	125	250	350	50	—	1HD465NF	③
	600	—	—	—	200	400	500	—	—	1HD466NF	③
	800	—	—	—	—	—	—	—	—	②③	②③

Notes

- ① Type 12 enclosures (30–1200A) can be field modified to meet Type 3R rainproof requirements when a factory provided drain hole is opened.
- ② DC rating for 800A switches is 250V.
- ③ Contact Customer Support (1-800-268-3578) for availability of this product.
- ④ Ratings are for two-phase AC.
- ⑤ Type 4X stainless steel enclosure.
- ⑥ Type 4 painted steel enclosure.

600 Vac Heavy-Duty, Non-Fusible, Single-Throw, 277/480–600V—Type 12/3R^①, 4X^⑤ and 4^④

System	Ampere Rating	Maximum Horsepower Ratings Single-Phase AC			Three-Phase AC			DC		Type 12/3R Enclosure Dust-Tight Catalogue Number	Type 4X ^⑤ and 4 ^④ Enclosure Watertight, Painted Steel Catalogue Number
		240V	480V	600V	240V	480V	600V	250V	600V		
Two-Pole—480 Vac—600 Vac or Vdc ^②											
	30	3	7-1/2	10	—	—	—	5	15	12HD261NF ^①	4HD261NF ^⑤
	60	10	20	25	—	—	—	10	25	12HD262NF ^①	4HD262NF ^⑤
	100	20	30	40	—	—	—	20	25	12HD263NF ^①	4HD263NF ^⑤
	200	15	50	50	—	—	—	40	50	12HD264NF ^①	4HD264NF ^⑤
	400	—	—	—	—	—	—	50	50	12HD265NF ^①	4HD265NFSS ^⑤
	400	—	—	—	—	—	—	50	50	—	4HD265NF ^⑤
	600	—	—	—	—	—	—	—	50	12HD266NF ^①	4HD266NFSS ^⑤
	600	—	—	—	—	—	—	—	50	—	4HD266NF ^⑤
	800	—	—	—	—	—	—	—	—	12HD267NF ^{①②}	4HD267NFSS ^⑤
	800	—	—	—	—	—	—	—	—	—	4HD267NF ^⑤
1200	—	—	—	—	—	—	—	—	③	③	
Three-Pole—480 Vac—600 Vac, 250 Vdc											
	30	3	7-1/2	10	10	20	30	5	—	12HD361NF ^①	4HD361NF ^⑤
	60	10	20	25	20	50	60	10	—	12HD362NF ^①	4HD362NF ^⑤
	100	20	40	50	40	75	100	20	—	12HD363NF ^①	4HD363NF ^⑤
	200	15	50	50	60	125	150	40	—	12HD364NF ^①	4HD364NF ^⑤
	400	—	—	—	125	250	350	50	—	12HD365NF ^①	4HD365NFSS ^⑤
	400	—	—	—	125	250	350	50	—	—	4HD365NF ^⑤
	600	—	—	—	200	400	500	—	—	12HD366NF ^①	4HD366NFSS ^⑤
	600	—	—	—	200	400	500	—	—	—	4HD366NF ^⑤
	800	—	—	—	—	500	500	—	—	12HD367NF ^①	4HD367NFSS ^⑤
	800	—	—	—	—	500	500	—	—	—	4HD367NF ^⑤
1200	—	—	—	—	500	500	—	—	12HD368NF ^①	4HD368NFSS ^⑤	
1200	—	—	—	—	500	500	—	—	—	4HD368NF ^⑤	
Four-Pole—480 Vac—600 Vac, 250 Vdc											
	30	10 ^⑥	20 ^⑥	25 ^⑥	10	20	30	5	—	12HD461NF ^①	4HD461NF ^⑤
	60	20 ^⑥	40 ^⑥	50 ^⑥	20	50	60	10	—	12HD462NF ^①	4HD462NF ^⑤
	100	40 ^⑥	50 ^⑥	50 ^⑥	40	75	100	20	—	12HD463NF ^①	4HD463NF ^⑤
	200	50 ^⑥	50 ^⑥	50 ^⑥	60	125	150	40	—	12HD464NF ^①	4HD464NF ^⑤
	400	50 ^⑥	—	—	125	250	350	50	—	①③	—
	600	—	—	—	200	400	500	—	—	①③	—
	800	—	—	—	—	—	—	—	—	①②③	—

Notes

- ① Type 12 enclosures (30–1200A) can be field modified to meet Type 3R rainproof requirements when a factory provided drain hole is opened.
- ② DC rating for 800A switches is 250V.
- ③ Contact Customer Support (1-800-268-3578) for availability of this product.
- ④ Ratings are for two-phase AC.
- ⑤ Type 4X stainless steel enclosure.
- ⑥ Type 4 painted steel enclosure.

Technical Data and Specifications for 2, 3, 4 Pole Heavy Duty

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	240V-100-600A 600V-30-600A	200A-800A 1200A

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.

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 1 & 3R)	#6 - 250mcm	#14 - 4	N200	2x #6 - 250mcm AND 2x #14 - #2
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.

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
		2, 3, 4, 6	14,000	FDB
		2, 3, 4, 6	10,000	Any manufacturer or Eaton breaker type
480	480	2, 3, 4, 6	35,000	EGH, EGS
		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	480	2, 3, 4, 6	65,000	HFD, HFDE, HJD, JGH
		2, 3, 4, 6	10,000	Any manufacturer or Eaton breaker type

Dimensions

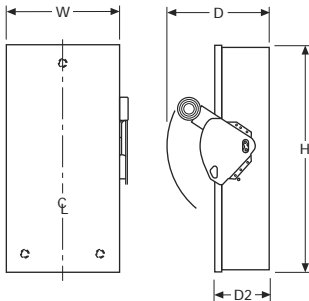
Approximate Dimensions in Inches (mm)

Note: Dimensions are for estimating purposes only.

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

Ampere Rating	Width (W)	Height (H)	Depth (D)	Depth (D2)	Weight Lbs (kg)
Type 1, 3R					
30	8.13 (206.5)	15.88 (403.4)	9.89 (251.3)	5.25 (133.3)	16 (7.264)
60	8.13 (206.5)	15.88 (403.4)	9.89 (251.3)	5.25 (133.3)	16 (7.264)
100	11.13 (282.7)	21.69 (550.9)	9.89 (251.3)	5.25 (133.3)	22 (9.988)
200	15.91 (404)	27.63 (701.8)	11.25 (285.8)	6.14 (156.0)	46 (20.884)
400	22.66 (576)	44.31 (1125)	12.39 (315)	7.27 (184.7)	110 (49.94)
600	23.66 (601)	51.82 (1316)	14.07 (357)	8.95 (227.3)	135 (61.29)
800	25.38 (644.7)	56.24 (1428)	14.07 (357)	8.95 (227.3)	158 (71.732)
1200	40.00 (1016)	70.31 (1785.9)	19.94 (506.5)	12.44 (316.0)	430 (195.22)
Type 12, 4 Painted Steel, 4X Stainless Steel ①					
30	8.76 (222.5)	14.14 (359)	10.22 (259)	5.50 (139.7)	17 (7.718)
60	8.76 (222.5)	14.14 (359)	10.22 (259)	5.50 (139.7)	17 (7.718)
100	11.79 (299.5)	25.00 (634)	10.22 (259)	5.50 (139.7)	28 (12.712)
200	16.54 (421)	35.38 (899)	11.63 (295)	6.44 (163.6)	55 (24.97)
400	24.12 (613)	57.47 (1460)	12.43 (316)	7.19 (182.6)	125 (56.75)
600	25.08 (637)	63.00 (1600.2)	14.25 (362.0)	8.88 (225.6)	167 (75.818)
800	26.34 (669)	71.75 (1822.5)	14.25 (362.0)	8.88 (225.6)	175 (79.45)
1200	41.47 (1053.3)	73.77 (1874)	19.99 (506.5)	13.51 (343.2)	475 (215.65)

Type 1-3R Heavy-Duty 30-1200A



Heavy-Duty, Fusible, 240V and 600V, Three-Pole with or without Neutral, Single-Throw

Ampere Rating	Width (W)	Height (H)	Depth (D)	Depth (D2)	Weight Lbs (kg)
Type 1, 3R					
30	8.13 (206.5)	15.88 (403.4)	9.89 (251.3)	5.25 (133.3)	20 (9.08)
60	8.13 (206.5)	15.88 (403.4)	9.89 (251.3)	5.25 (133.3)	20 (9.08)
100	11.13 (282.7)	21.69 (550.9)	9.89 (251.3)	5.25 (133.3)	27 (12.258)
200	15.91 (404)	27.63 (701.8)	11.25 (285.8)	6.14 (156.0)	52 (23.608)
400	22.66 (576)	44.31 (1125)	12.39 (315)	7.27 (184.7)	120 (54.48)
600	23.66 (601)	51.82 (1316)	14.07 (357)	8.95 (227.3)	135 (61.29)
800	25.38 (644.7)	56.24 (1428)	14.07 (357)	8.95 (227.3)	168 (76.272)
1200	40.00 (1016)	70.31 (1785.9)	19.94 (506.5)	12.44 (316.0)	465 (211.11)
Type 12, 4 Painted Steel, 4X Stainless Steel ①					
30	8.76 (222.5)	19.08 (485)	10.22 (259)	5.50 (139.7)	22 (9.988)
60	8.76 (222.5)	19.08 (485)	10.22 (259)	5.50 (139.7)	22 (9.988)
100	11.79 (299.5)	25.00 (634)	10.22 (259)	5.50 (139.7)	30 (13.62)
200	16.54 (421)	35.38 (899)	11.63 (295)	6.44 (163.6)	61 (27.694)
400	24.12 (613)	57.47 (1460)	12.43 (316)	7.19 (182.6)	135 (61.29)
600	25.08 (637)	63.00 (1600.2)	14.25 (362.0)	8.88 (225.6)	203 (92.162)
800	26.34 (669)	71.75 (1822.5)	14.25 (362.0)	8.88 (225.6)	213 (96.702)
1200	41.47 (1053.3)	73.77 (1874)	19.99 (506.5)	13.51 (343.2)	510 (231.54)

Note

① Type 12 enclosures (30-1200A) can be field modified to meet type 3R rainproof requirements when factory provided drain hole is opened.

Type 4, 4X and 12 Heavy-Duty 30-1200A ①

