

### Product Overview

- Used to open or close a circuit
- Non-fusible safety switches provide a means to manually connect or disconnect the load from the source
- Fusible safety switches provide a means to manually open and close a circuit and provide overcurrent protection by means of installed fuses
- Fusible switches certified for use as service entrance equipment (unless noted)
- Also commonly referred to as a disconnect switch or disconnect

- Available from 30–1200A
- All Padlockable
- Horsepower rated
- 100% load break rated (unless noted)
- Non-Fusible switches are 100% continuous duty rated and fusible switches are 80% continuous duty rated per CSA C22.2 No.4

### Standards and Certifications

- C22.2 No.4 File #69743
- C22.2 No.14 (Enclosed Rotary) File #162136
- Det Norske Veritas
- ISO 9001:2008
- CSA certified Class I, Div, 1 & 2, Groups B, C & D; Class II, Div 1 & 2, Groups E, G & F; Class III, Div 1 & 2, Zone 1, IIB + H2 for NEMA 7/9.
- Seismic qualified (UBC and CBC) for Heavy Duty 30-800A
- ISO 1400



### Fuse Clips/Class

Adaptable to Accept the Following Fuse Class

Safety Switch Type	Standard Fuse Class Clips Supplied with Switch	R	J	T
AC Disconnect	H	—	—	—
General Duty	H	30A-600A	400-600A	400-600A
Heavy Duty	H 30-600A L 800-1200A	30A-600A	240V-100-600A 600V-30-600A	200A-800A 1200A
Heavy Duty 6 Pole	H	30A-200A	60A-200A	200A
Double Throw	H 30-200A T 240V-600A-1200A T 600V-400A-800A L 600V-1200A	30A-400A	240V-200A Only 600V-200A-400A	240V-600A-1200A 600V-400A-1200A (Standard)
Enviroline All Stainless & Window	Same as Heavy Duty	Same as Heavy Duty		Same as Heavy Duty
Receptacle (Pin & Sleeve)	H	30A-100A	60A-100A	—
Solar	R	30A - 600A	—	—

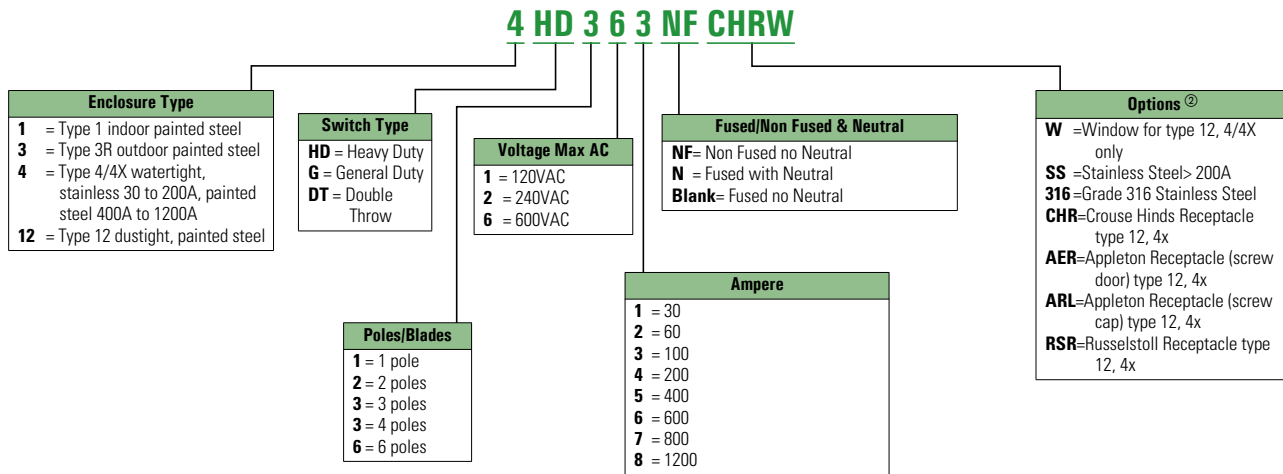
**Note:** Refer to specific switch technical data page for field adaptation notes.

# Switching Devices

## Safety Switches

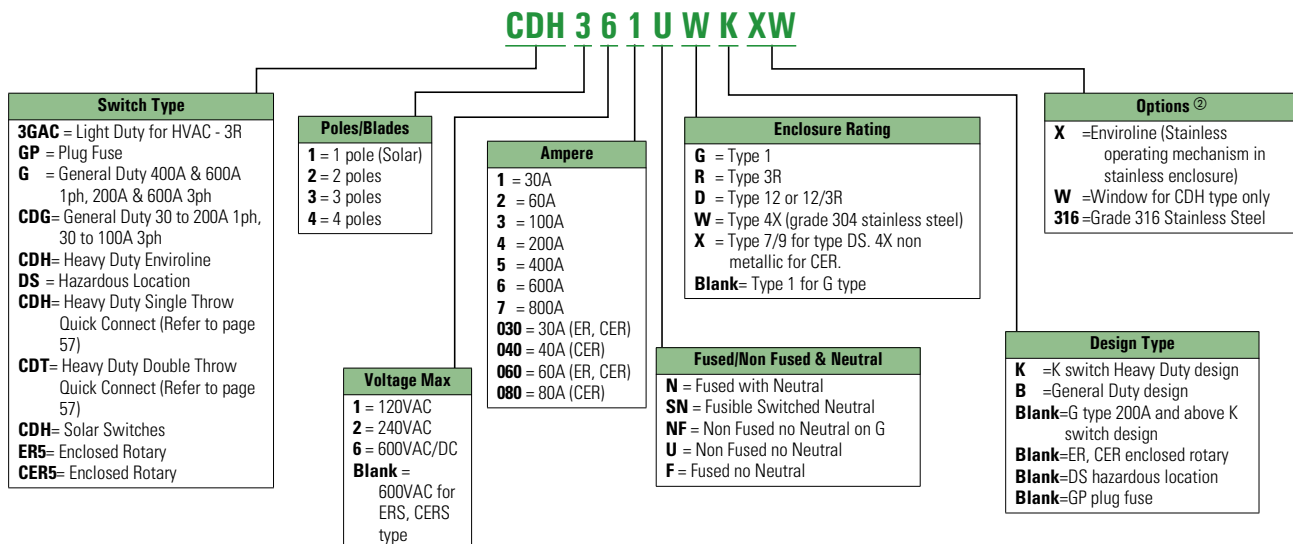
### Catalogue Number Selection

#### Safety Switch



#### Notes

- ① Always verify the number of poles and wires required since catalogue numbers may appear in multiple tables.
  - ② See **Pages 12** through **14** for additional Flex Centre options.
- This table is intended for use in breaking down existing catalogue numbers. It is not intended for building new catalogue numbers.



Heavy-Duty Safety Switch



### Contents

<i><b>Description</b></i>	<i><b>Page</b></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
<b>Heavy Duty Switches . . . . .</b>	<b>22</b>
<b>Product Description, Features . . . . .</b>	<b>22</b>
<b>Standards and Certifications . . . . .</b>	<b>23</b>
<b>Product Selection . . . . .</b>	<b>24</b>
<b>Technical Data and Dimensions . . . . .</b>	<b>30</b>
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.

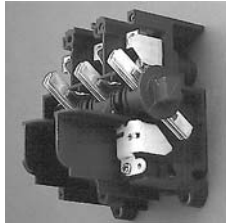
#### **600 Vac Heavy-Duty, Non-Fusible, Single-Throw**

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

### Features, Benefits and Functions

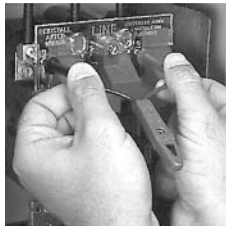
- Visible double-break quick-make, quick-break rotary blade mechanism. Two points of contact provide a positive open and close, easier operation, and also help prevent contact burning for longer contact life
- Triple padlocking capability. Personnel safety feature since the large hasp can accommodate 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 defeater 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

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



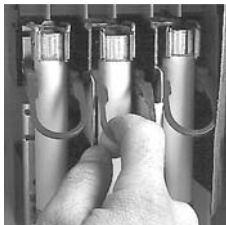
Visible Double-Break Rotary Blade Mechanism

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



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 defeater mechanism provides for user access when necessary on single-throw switches



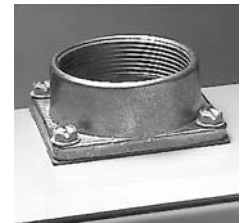
Interlocking Mechanism

- 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


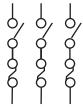
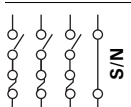
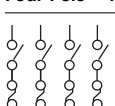
- CSA Certified File No. 69743
- Meets C22.2 No. 4 for enclosed switches
- Refer to page 2 for additional certifications
- ISO 9001:2008



12HD361



### 600 Vac Heavy-Duty, Fusible, Single-Throw, 277/480–600V—Type 12/3R<sup>①</sup>, 4X<sup>④</sup> and 4<sup>⑦</sup>

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

See NOTES listed on Page 26.