Safety Switches

Non-Fused Air Conditioning Disconnects

Selection

240V Non-Fused Disconnect cUL listed, Type 3R enclosure

Catalogue Number	Ampere Rating	Maximum Horsepower	Disconnect Type	Std. Pkg.
WN2060	60	10	Non-Fused Pullout	6

c UL

Features

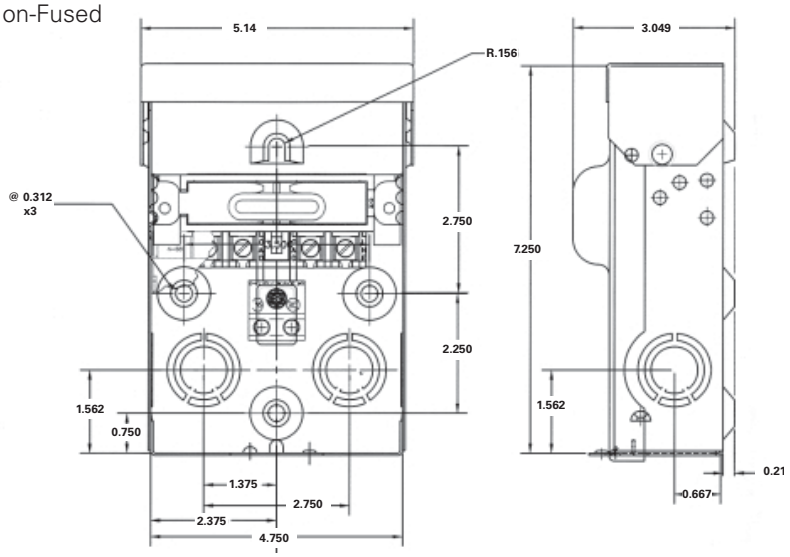
- Ample Wiring Space
- Rugged Design
- Numerous Knockouts
- Raised Mounting Embosses
- Copper Conductors
- Pullout Switch
- Removable Door

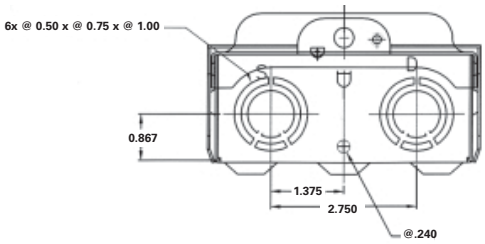
Benefits

- The larger enclosure allows for ample wiring space.
- Manufactured with powder coated G90 galvanized steel for fade, scratch and corrosion resistance
- All (6) knockouts are easy to remove. The sidewall knockouts provide access from the sides of the device. Every knockout has 1/2", 3/4" and 1" provisions.
- (4) Raised mounting embosses keep the unit away from the wall, preventing dirt build-up. The upper mounting hole is shaped to be used as a hanger.
- Copper current carrying part allows for a cooler, longer lasting operation.
- The pullout switch design allows you to safely and easily de-energize the load terminals.
- The easily removable door makes it possible to wire the device with absolutely no interference.

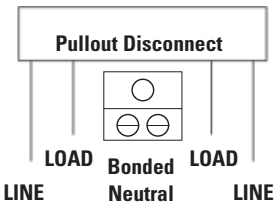
Dimensions - Inches*

Non-Fused

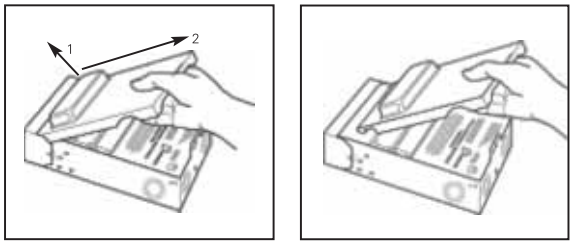




Wiring Diagram



Removable Door



Wire Range Table				
Connector	Copper		Aluminum	
	Solid	Standard	Solid	Standard
Line	#14-8	#14-3	#12-8	#12-3
Load	#14-8	#14-3	#12-8	#12-3
Neutral	#12-8	#12-2	#12-8	#12-2
Equip Grnd.	#12-8	#12-2	#12-8	#12-2

* For inches/millimeters conversion, multiply inches by 25.4.

Type VBII Safety Switches

Guide Form Specifications

	General Duty	Heavy Duty	Double Throw
Application	General Duty Switches are intended for applications where reliable performance and continuity of service are needed, but where duty requirements are not severe and usual service conditions prevail. (These switches are intended for use primarily with supply circuits rated 240V AC or less where the available fault current is less than 100,000A when used with Class R or T fuses or 10,000A max. when used with Class H fuses.)	Heavy Duty Switches are intended for use in applications where: 1. Rugged construction, reliable performance, continuity of service and ease of maintenance are emphasized, or 2. Available fault currents higher than 10,000A are likely to be encountered, such as in manufacturing plants, mass production industries, and commercial, institutional and other large buildings served by network systems or transformers of higher capacities. 3. System voltage is 600V AC or DC Max. 4. A Type 12 or 4/4X enclosure is required.	Double throw switches are intended to transfer loads from one power source to another. All double throw switches are CSA certified. Switches are rated for use on systems with an available fault current of up to 10,000 AIC when protected with Class H fuses or 200,000 AIC when protected with Class R, J or Class T fuses. They can also be used to connect a single source of power to either of two loads. In this application it is necessary to field modify fusible switches so that the fuses are on the load side of the switching mechanism.
Short Circuit Withstand Ratings	Suitable for use on systems capable of delivering not more than 100,000 RMS symmetrical amperes of fault current as follows: Sw. Rating / AIC Rating / Protective Device① 30-200A / 10,000 / Circuit Breaker 30-200A / 10,000 / Class H Fuse 30-200A / 100,000 / Class R Fuse 100-200A / 100,000 / Class J or T Fuse	Suitable for use on systems capable of delivering not more than 200,000 RMS symmetrical amperes of fault current as follows: Sw. Rating & Tpye / AIC Rating / Protective Device① All Heavy Duty & DT / 10,000 / Circuit Breaker 30-600A HD & DT / 10,000 / Class H Fuse 30-600A HD / 200,000 / Class R, J or T Fuse 30-600A DTFC & DTNFC DT / 200,000 / Class R, J or T Fuse 800 & 1200A HD / 200,000 / Class L or T Fuse	
Fuses	Fusible switches will accept the following CSA class fuses: 30 "LF" - 30A max plug Fuses 30-200A "GD" Class H & K, Class R with kit 100-200A "GD" Class J-move base 100-200A "GD" Class T with kit	Fusible switches will accept the following CSA class fuses: 30-600A "HD" Class H & K, Class R with kit 30-600A, 600V "HD" Class J-move base 100-600A, 240V "HD" Class J-move base 100-200A "HD" Class T with kit 400-600A "HD" Class T-move bases 800-1200A "HD" Class L, Class T with kit②	Fusible switches will accept the following CSA class fuses: 30-200A "DT" - Class H & K, Class R with kit 30 & 60A 600V "DT" - Class J-move base 100-200A "DT" - Class J-move base, Class T with kit 400-600A "DT" - Class J-standard, Class T-move bases
Cover Interlocks	Voidable – cover interlocks on switches prevent the switch door from being opened when in the "ON" position. No cover interlock on plug fuse type switches.	Voidable dual cover interlocks standard on all heavy duty switches. Prevents cover from being opened when switch is in the "ON" position and prevents switch from being turned "ON" when door is opened.	Dual cover interlocks standard on all double throw switches. Prevents cover from being opened when switch is in the "ON" position and prevents switch from being turned "ON" when door is opened.
Specifications	CSA certified under file #24563 as enclosed switches. Fusible switches also suitable as service entrance when neutral bonded to the enclosure is installed. Meets CSA C22.2 No.4 Enclosed Switches.		CSA certified under file #24563 as enclosed switches. Meets CSA C22.2 No.4 Enclosed switches.
	Meet NEMA standard KS-1-2001 for type GD switches.	Meet NEMA standard KS-1-2001 for type HD switches.	Meet NEMA standard KS-1-2001 type HD for "DT" switches.
Seismic Qualifications	All GD & HD switches and "DT" type double throw switches have been tested and comply with the 2010 California Building Code (CBC) and with the 2009 International Building Code (IBC) - Compliance Level SDS = 1.85 g		
Groundable Neutral (All neutrals are bondable for service entrance use.)	Fusible switches have groundable neutral blocks factory installed.	All switches (both Fusible and Non-Fusible) are either supplied with factory installed neutrals or accept field addable neutrals.	All 2-3 pole DT will accept field addable neutrals.
Padlocks	Padlockable cover latch. OFF padlock provisions on handle.	Padlockable cover latch and multiple OFF padlock provisions on handle.	Padlockable cover latch and multiple OFF padlock provisions on handle.
HP & Load Break Ratings	All General Duty, Heavy Duty and Double Throw Switches are both load break and horsepower rated.		

① The protective device can either be a fuse installed in a fusible switch or an upstream fuse or circuit breaker protecting a non-fusible switch. The ampere rating of the upstream protective device must not exceed the switch ampere rating.

② Class T kit available for 240V max. applications on 1200A switches.

General Duty Enclosed Switches

Plug Fuse and 60A Special Application Type

Features

- CSA Certified under file #24563
- Compact size
- Horsepower rated
- Indoor and outdoor enclosures
- Quick make-quick break mechanism
- Visible "ON"-"OFF" indications
- Padlock-off handle feature
- Door padlock provision
- All fusible switches suitable for use as service entrance equipement
- Bondable neutral (where indicated)
- Lugs suitable for copper or aluminum wire
- Switches accept plug fuses only - fuses not included
- Hubs③ — see page 1-21
- Lugs — see page 1-21
- Ground Bar Kit: **GSGK60**③
- Knockout diagrams — see page 1-26 and 1-27

Dimensions - in. (mm)

Enclosure Type	Height	Width	Depth
1	8¼ (210)	5½ (140)	3 (76)
3R	8¼ (210)	5⅜ (137)	3⅛ (79)

Wire Range Table

Switch Type	Wire Range
120/240 Volt Fusible 30 Amp	#14 AWG - #8 AWG Al/Cu④
120/240 Volt Non-Fusible 60 Amp	#14 AWG - #3 AWG Al/Cu

Ampere Rating	Indoor — Type 1		Outdoor — Type 3R		Horsepower Ratings①	
					1-Phase, 2-Wire	
	Catalogue Number	Ship. Wt. (lbs.)	Catalogue Number	Ship. Wt. (lbs.) Pkg. of 10	Standard	Maximum
120/240 Volt Fusible						
1-Pole and Solid Neutral②					**120 Volt — 1-Phase, 2-Wire**	
30	**LFC111N**	3.6	—	—	1/2	2
2-Pole and Solid Neutral②					**120/240 Volt — 2-Phase, 3-Wire**	
30	**LFC211N**	3.5	**LFC211NR**	35	1/2	2
240 Volt Non-Fused						
2-Pole Special Application Switch					**240 Volt — 1-Phase, 2-Wire**	
60	—	—	**LNFC222R**③	35	3	10

①Dual horsepower ratings:
Std. — applies when non-time delay plug fuses are installed.
Max — applies when time-delay plug fuses are installed.

②Has service entrance label. CSA certified as "Enclosed Switches" (suitable for use as service equipment where indicated).

③Bottom cable entry and exit only. No hub provision supplied. **GSGK60** is included and factory installed.

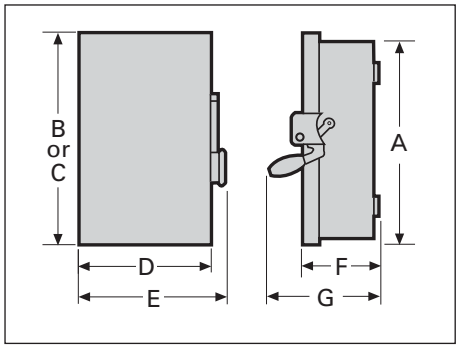
④Line lugs are CSA approved for #14 to #6 Cu/Al cable.

General and Heavy Duty Safety Switches

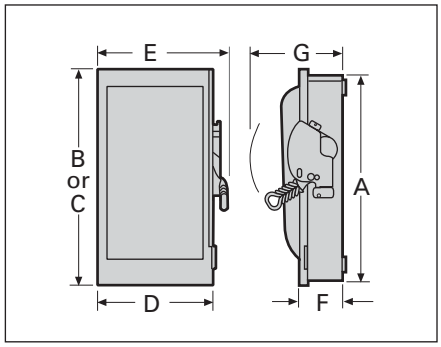
Safety Switch Dimensions & Shipping Weights

Catalogue Number	**Height** - Inches (mm)			**Width** - Inches (mm)		**Depth** - Inches (mm)		Knockout Diagram①	Shipping Weight (lbs.)
	Box A	With Door B	With Rain Shed C	Box D	With Handle E	Box F	With Handle G		
HNFC365	44.00 (1118)	44.57 (1132)	—	24.65 (626)	26.21 (626)	9.23 (234)	14.68 (373)	S14	114
HNFC365J, JW	44.14 (1121)	44.57 (1132)	—	24.82 (630)	26.44 (672)	9.19 (233)	14.64 (372)	—	114
HNFC365R	44.07 (1119)	—	45.19 (1148)	24.65 (626)	26.95 (685)	9.23 (234)	14.68 (373)	S15	118
HNFC365S, SW	44.14 (1121)	44.57 (1132)	—	24.82 (630)	26.44 (672)	9.19 (233)	14.64 (372)	—	118
HNFC366	44.00 (1118)	44.57 (1132)	—	24.65 (626)	26.21 (626)	9.23 (234)	14.68 (373)	S14	116
HNFC366J, S	44.14 (1121)	44.57 (1132)	—	24.82 (630)	26.44 (672)	9.19 (233)	14.64 (372)	—	115
HNFC366R	44.07 (1119)	—	45.19 (1148)	24.65 (626)	26.95 (685)	9.23 (234)	14.68 (373)	S15	120
HNFC367, J	54.67 (1389)	55.16 (1401)	—	38.40 (975)	39.96 (1015)	9.24 (235)	14.68 (373)	—	302
HNFC367R	54.67 (1389)	—	55.70 (1515)	38.40 (975)	40.25 (1022)	9.24 (235)	14.68 (373)	—	304
HNFC367S	54.67 (1389)	55.16 (1401)	—	38.40 (975)	39.96 (1015)	9.24 (235)	14.68 (373)	—	302
HNFC368, J	54.67 (1389)	55.16 (1401)	—	38.40 (975)	39.96 (1015)	9.24 (235)	14.68 (373)	—	305
HNFC368R	54.67 (1389)	55.16 (1401)	—	38.40 (975)	40.25 (1022)	9.24 (235)	14.68 (373)	—	307
LFC11N	7.97 (202)	8.13 (207)	—	5.50 (140)	5.94 (151)	3.00 (76)	5.38 (137)	S2	36⑩
LFC211N	7.97 (202)	8.13 (207)	—	5.50 (140)	5.94 (151)	3.00 (76)	5.38 (137)	S1	35⑩
LFC211NR	8.07 (205)	—	8.16 (207)	5.16 (131)	5.94 (151)	3.13 (80)	5.38 (137)	S3	35⑩
LNFC222R	8.07 (205)	—	8.16 (207)	5.16 (131)	5.94 (151)	3.13 (80)	5.38 (137)	S5	35⑩

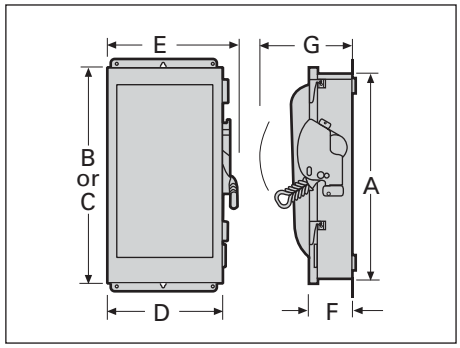
Type 1 or 3R
30A GD Type VBII, LFC & LNFC



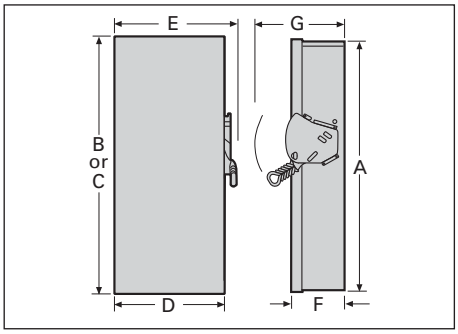
Type 1 or 3R
60-200A GD, 30-200A HD Type VBII



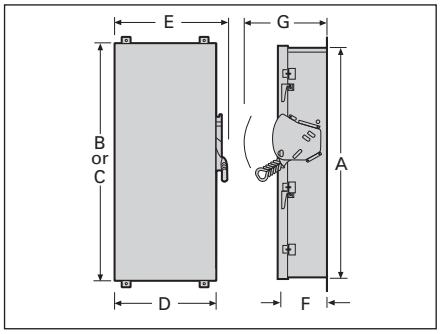
Type 4/4X or 12
30-200A HD Type VBII



Type 1 or 3R
400-1200A HD Type VBII



Type 4/4X or 12
400-1200A HD Type VBII



① Knocks not provided on Type 4 / 4X and 12 or on 800 & 1200A switches.