http://waterheatertimer.org/How-to-wire-safety-switch.html

• Revised •
12/21/2007

General Duty Enclosed Switches

Plug Fuse and 60A Special Application Type

Selection

Features⑤

- Compact size
- Horsepower rated
- Indoor and outdoor enclosures
- Quick make-quick break mechanism
- Visible "ON"-"OFF" indications
- Padlock-off handle feature
- Door padlock provision
- Bondable neutral (where indicated)
- Lugs suitable for copper or aluminum wire
- UL Listed
- Fuses — not included
- Switches accept Edison base plug fuses
- Hubs — see page 3-20
- Lugs — see page 3-20



Dimensions (inches)

Type	Height	Width	Depth
1	8¼	5½	3
3R	8¼	5⅜	3⅛

Wire Range Table

Switch Type	Wire Range
120/240 Volt Fusible 30 Amp	Cu/Al #14 to #8 AWG④
120/240 Volt Non-Fusible 60 Amp	Cu/Al #14 to #3 AWG

Ampere Rating	Indoor — Type 1 Catalog Number	List Price $	Ship. Wt. Pkg. of 10	Outdoor — Type 3R Catalog Number	List Price $	Ship Wt. Pkg. of 10	Horsepower Ratings① 1-Phase, 2-Wire Standard	Maximum
120/240 Volt Fusible								
1-Pole and Solid Neutral②							**120 Volt — 1-Phase, 2-Wire**	
30	**LF111N**	**80.00**	35	**LF111NR**	**166.00**	35	½	2
2-Pole and No Neutral							**120/240 Volt — 1-Phase, 2-Wire**	
30	Use 2-Pole and Solid Neutral							
2-Pole and Solid Neutral②							**120/240 Volt — 1-Phase, 3-Wire**	
30	**LF211N**	**98.00**	35	**LF211NR**	**203.00**	35	1½	3
240 Volt Non-Fusible								
2-Pole Special Application Switch			**1 or 2-Pole — No Fuse**				**240 Volt — 1-Phase, 2-Wire**	
60	—	—	—	**LNF222R③**	**176.00**	35	—	10

For inches / millimeters conversion, multiply inches by 25.4.

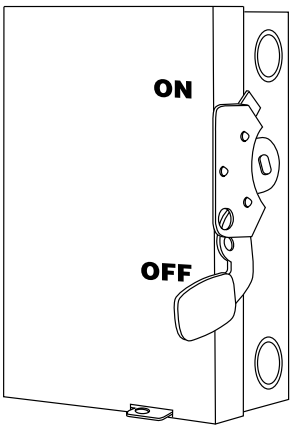
①Dual horsepower ratings:
Std. — applies when non-time delay plug fuses are installed.
Max — applies when time-delay plug fuses are installed.

②Has service entrance label.
UL Listed as "Enclosed Switches" (suitable for use as service equipment where indicated) under File #E4776.
(NEMA) — Type G.D.
Federal Spec. — W-S-865C — type LD or type NDS

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

④Line lugs will accept and are UL approved for #14 to #6 Cu/Al cable.

⑤Features also apply to 2- and 3-pole, 30A general duty switches on page 3-8.



General Duty Safety Switch

Type VBII, 30 Amp, Type 1 (Indoor)

Standards and Ratings
- UL Listed under file #E4776
- Meets UL98 for switches and UL50 for enclosures
- Meets NEMA Standard KS-1 for enclosed switches
- Meets NEC wire bending space requirements
- Rated 10,000 AIC with Class H and plug fuses or 100,000 AIC with Class R fuses
- Suitable for use as service entrance equipment

Features
- Quick-make and break switching action
- Double break visible blade design
- Highly visible ON/OFF indication
- Single cover interlock

General Information

Catalog Number	Description	Ship. Wt. (lbs.) (Std Pkg)
LF111N	120V, 1 Phase, 2 Wire, Fusible (Plug Fuse)	35 (10)
LF211N	120/240V, 1 Phase, 3 Wire, Fusible (Plug Fuse)	35 (10)
GF221N [1] [2]	240V, 1 Phase, 3 Wire, Fusible (Cartridge Fuse)	35 (10)

Horsepower Ratings [3]

Catalog Number	1 Phase, 2 Wire 120V AC		1 Phase, 2 Wire 240V AC		3 Phase, 3 Wire 240V AC		250V DC
	Std	Max	Std	Max	Std	Max	
LF111N	½	2	—	—	—	—	—
LF211N	—	—	1½	3	—	—	—
GF221N	—	—	1½	3	3	7½	5

Accessories

Catalog Number	Description
GSRK60	Equipment Ground Kit (Wire Range #14-2 Cu/Al)
W410190	Neutral Kit
GSRK321	Class R Fuse Clip Kit

Replacement Parts

Catalog Number	Description
W410472A	Replacement Interior 2-Pole Fusible (GF221N)

Mechanical Lug Wire Ranges (60/75°C, Cu/Al)

Description	Wire Range
Line, Load, Neutral	#14-6 AWG or #14-8 AWG

1 These switches are UL Listed for application on grounded B phase systems.
2 Suitable for 3-pole motor loads.
3 Dual horsepower ratings: Std - applies when non-time delay fuses are installed. Max - applies when time-delay fuses are installed.

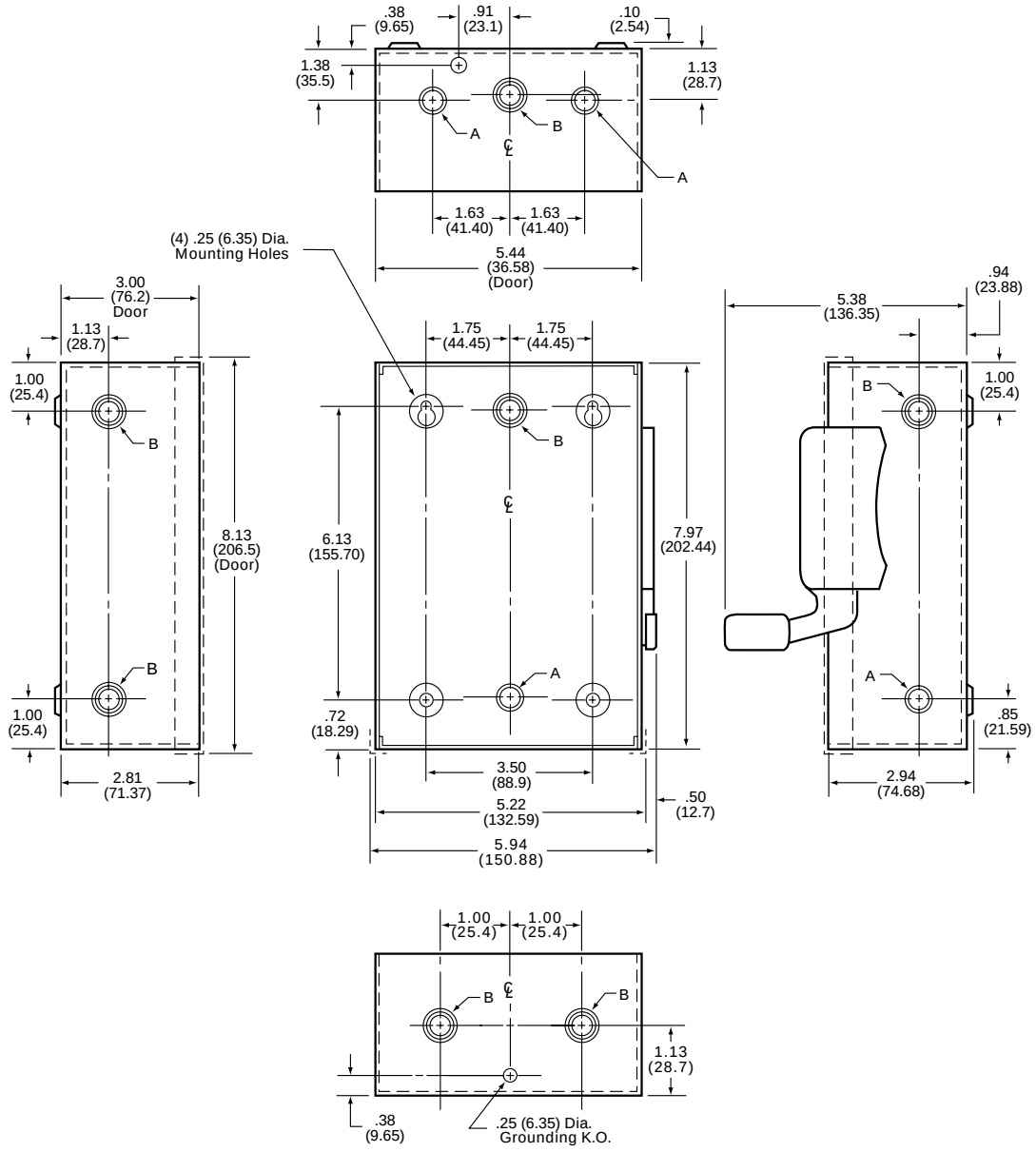
Product Specification Sheet GD30.1

Answers for industry.

SIEMENS

Product Specification Sheet #GD30.1 (page 2 of 2)

Dimension Drawing



Dimensions shown in inches and millimeters ( ).
Dimension shown accurate to ± ⅛ inch.
Note: Handle shown on front and right hand views only.

KNOCKOUT CODE	CONDUIT SIZE		
A (Concentric)	.50	.75	
B (Concentric)	.50	.75	1.00

	LINE SIDE WIRE BEND	LOAD SIDE WIRE BEND
Fused	2.00 (51)	1.50 (38)

Enclosure: Cold Rolled Steel
.048 Thick (18 Gauge)
Finish: ANSI Grey #61 Paint

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