

# Heavy Duty Safety Switch

## Type VBII, 30 Amp, Type 1 (Indoor)

### Standards and Ratings

- UL Listed under file #E4776
- Meets UL98 for switches and UL 50 for enclosures
- Meets NEMA Standard KS-1 for enclosed switches
- Meets NEC wire bending space requirements
- Rated 10,000 AIC with Class H fuses or 200,000 AIC with Class R and J fuses
- Rated 100,000 AIC at 600Vdc with Class R or J fuses
- $I^2t$  rated (Amps<sup>2</sup> x Seconds = 50,000)
- 12X overload current rating exceeds 10X industry standard
- Suitable for use as service entrance equipment

### Features

- Quick-make and break switching action
- Double break visible blade design
- Highly visible ON/OFF indication
- Rugged installer friendly enclosure design
- Modular design allows quick and easy replacement of parts
- Front removable wire grips which can easily be converted to copper body or compression type lugs
- Defeatable dual cover interlock

### General Information

| Catalog Number      | Volts | Description             | Shipping Weight (lbs.) |
|---------------------|-------|-------------------------|------------------------|
| HF221N <sup>1</sup> | 240   | 2 Pole, 3 Wire, Fusible | 12                     |
| HF321N              | 240   | 3 Pole, 4 Wire, Fusible | 14                     |
| HF261               | 600   | 2 Pole, 2 Wire, Fusible | 15                     |
| HF361               | 600   | 3 Pole, 3 Wire, Fusible | 14                     |
| HF361N              | 600   | 3 Pole, 4 Wire, Fusible | 14                     |

### Horsepower Ratings <sup>2 3</sup> - 240 Volts

| Catalog Number | 1 Phase, 240V AC |     | 3 Phase, 240V AC |     | 250V DC |
|----------------|------------------|-----|------------------|-----|---------|
|                | Std              | Max | Std              | Max |         |
| HF221N         | 1½               | 3   | 3                | 7½  | 5       |
| HF321N         | 1½               | 3   | 3                | 7½  | 5       |

### Horsepower Ratings <sup>2 3 4</sup> - 600 Volts

| Catalog Number | 3 Phase, 480V AC |                | 3 Phase, 600V AC |                | 600V DC |
|----------------|------------------|----------------|------------------|----------------|---------|
|                | Std              | Max            | Std              | Max            |         |
| HF261          | —                | — <sup>5</sup> | —                | — <sup>5</sup> | 15      |
| HF361          | 5                | 15             | 7½               | 20             | —       |
| HF361N         | 5                | 15             | 7½               | 20             | —       |

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

| Description | Wire Range        |
|-------------|-------------------|
| Line, Load  | #12-6 AWG (Al) or |
| Neutral     | #14-6 AWG (Cu)    |
| Ground      | #14-4 AWG         |

<sup>1</sup> These switches are UL Listed for application on grounded B phase systems.

<sup>2</sup> Dual horsepower ratings: Std - applies when non-time delay fuses are installed. Max - applies when time-delay fuses are installed.

<sup>3</sup> Horsepower ratings listed also apply to Design E motors with no derating.

<sup>4</sup> Also rated 5HP at 250V DC.

<sup>5</sup> Also rated 7½ HP at 480V, 1 phase and 10HP at 600V, 1 phase.

## Product Specification Sheet HD30.2

Answers for industry.

**SIEMENS**

# Product Specification Sheet #HD30.2 (page 2 of 2)

## Accessories

| Catalog Number | Description  |
|----------------|--|
| HA161234       | One Normally Open and Closed Auxiliary Switches                              |
| HA261234       | Two Normally Open and Closed Auxiliary Switches                              |
| HA361234       | Low Voltage Auxiliary Switch   |
| HG61234        | Equipment Ground Lug Kit   |
| HG261234       | Isolated Equipment Ground Lug Kit  |
| HP61           | Fuse Puller (3 per kit)  |
| HN612          | Neutral Kit  |
| HR21           | 240 Volt Class R Fuse Clip Kit (3 fuse clips per kit) (HF221N, HF321N)       |
| HR612          | 600 Volt Class R Fuse Clip Kit (3 fuse clips per kit) (HF261, HF361, HF361N) |
| HLC612         | Copper Lug Kit (9 lugs per kit)  |
| HCL612         | Compression Lug Neutral Barrier Kit  |

## Replacement Parts

| Catalog Number | Description  |
|----------------|--|
| HFB21          | 240 Volt Line Side Replacement Base (HF221N, HF321N)       |
| HBB21          | 240 Volt Load Side Replacement Base (HF221N, HF321N)       |
| HFB612         | 600 Volt Line Side Replacement Base (HF261, HF361, HF361N) |
| HBB612         | 600 Volt Load Side Replacement Base (HF261, HF361, HF361N) |
| HH6123         | Replacement Handle/Handle Guard                            |
| HL612          | Replacement Lugs (3 lugs per kit)                          |
| HM6123         | Replacement Mechanism                                      |
| 1              | Replacement Door   |

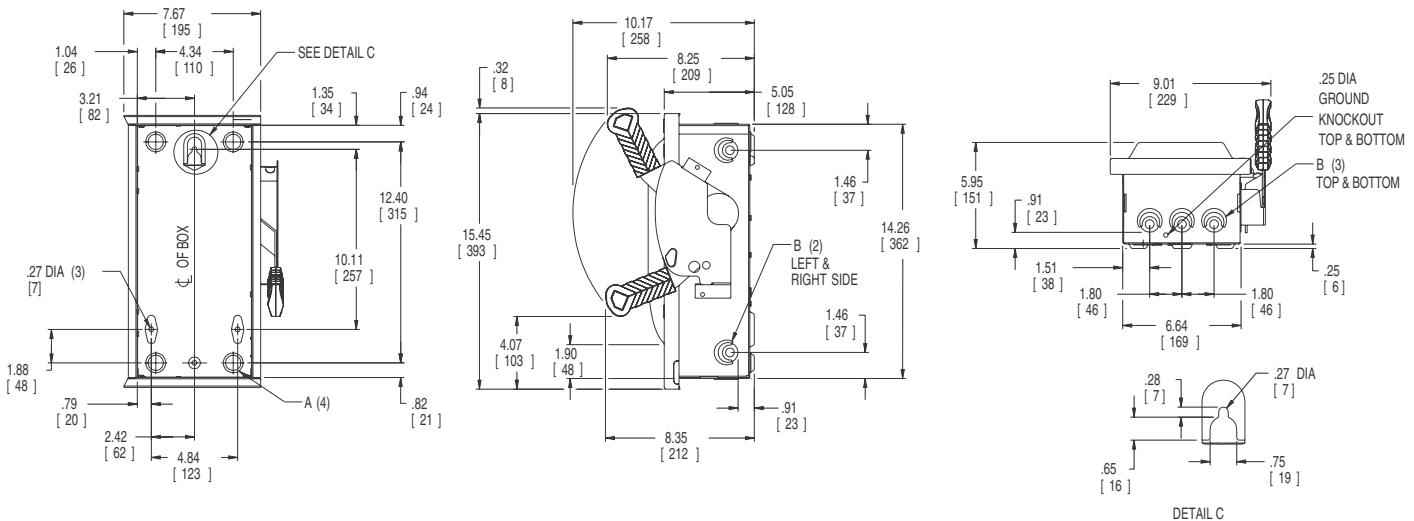
## Compression Lugs <sup>2</sup>

| Wire Size | Burdny                    |       | Thomas-Betts   |                         | IlSCO   |                |
|-----------|---------------------------|-------|----------------|-------------------------|---------|----------------|
|           | CU Only                   | CU/AL | CU Only        | CU/AL                   | CU Only | CU/AL          |
| #14-10    |                           |       |                | 60096<br>60097          |         |                |
| #8        | YA8C-L BOX<br>YA8C-L1 BOX |       | 54104<br>54130 | 60101<br>60102<br>61102 | CRA-8   | ACL-8<br>ACN-8 |
| #6        |                           |       |                | 61107                   |         |                |

1 Place "DOOR" at the end of the switch catalog number.

2 If compression lugs are used for the neutral, order compression lug neutral barrier kit HCL612.

## Dimension Drawing



Dimensions shown in inches and millimeters ( ).  
Dimension shown accurate to  $\pm \frac{1}{16}$  inch.

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

|      | LINE SIDE WIRE BEND | LOAD SIDE WIRE BEND |
|------|---------------------|---------------------|
| 240V | 3.02 (77)           | 5.36 (136)          |
| 600V | 3.02 (77)           | 2.61 (66)           |

Enclosure: Cold Rolled Steel  
.054 Thick (17 Gauge)  
Finish: ANSI Grey #61 Paint