

# Switches

## Heavy Duty Safety Switches

### Special Application Safety Switches / Type VBII Non-Metallic & 316 Grade Stainless Steel

## Application

Siemens Non-metallic and 316 grade stainless steel switches provide a superior level of corrosion resistance to assure trouble free performance in the most severe conditions. 316 grade stainless steel provides increased corrosion resistance when compared to 304 grade, especially in atmospheres containing a high level of chlorine commonly encountered in marine and waste management applications. Our non-metallic enclosures are constructed from fiberglass reinforced polyester and are extremely resistant to a wide range

of corrosive atmospheres. They allow a wide range of operating temperatures and their insulating properties virtually eliminate problems caused by internal condensation.

## Description

30-200A, 600V Max, fusible and non-fusible switches are available in both non-metallic and 316 grade stainless steel versions. All are supplied with factory installed ground bars as standard. Viewing windows are also available in the stainless offering.



## Type 4/4X Non-Metallic

| Ampere<br>Rating  | Catalog<br>Number     | Ship Weight<br>Std. pkg.<br>(lbs.) | Horsepower Rating—3-Phase |      |             |      |             |      | 250<br>Volts<br>DC | 600<br>Volts<br>DC |
|---|-----------------------|------------------------------------|---------------------------|------|-------------|------|-------------|------|--------------------|--------------------|
|   |                       |                                    | 240 Volt AC               |      | 480 Volt AC |      | 600 Volt AC |      |                    |                    |
|   |                       |                                    | Std.                      | Max. | Std.        | Max. | Std.        | Max. |                    |                    |
| 3-Pole, 4-Wire, 240 Volt Fusible, Type 4X <sup>⑤</sup>                      |                       |                                    |                           |      |             |      |             |      |                    |                    |
| 30  | HF321NX               | 21                                 | 3                         | 7½   | —           | —    | —           | —    | 5                  | —                  |
| 60  | HF322NX▲              | 22                                 | 7½                        | 15   | —           | —    | —           | —    | 10                 | —                  |
| 3-Pole, 4-Wire, 600 Volt AC Fusible, Type 4X <sup>②③⑤</sup>                 |                       |                                    |                           |      |             |      |             |      |                    |                    |
| 30  | HF361NX               | 21                                 | 3                         | 7½   | 5           | 15   | 7½          | 20   | 5                  | 15 <sup>④</sup>    |
| 60  | HF362NX               | 22                                 | 7½                        | 15   | 15          | 30   | 15          | 50   | 10                 | 30 <sup>④</sup>    |
| 100   | HF363NX▲ <sup>①</sup> | 39                                 | 15                        | 30   | 25          | 60   | 30          | 75   | 20                 | 50 <sup>④</sup>    |
| 200   | HF364NX▲ <sup>①</sup> | 83                                 | 25                        | 60   | 50          | 125  | 60          | 150  | 40                 | 50                 |
| 3-Pole, 3-Wire, 600 AC Volt Non-Fusible, <sup>①</sup> Type 4X <sup>②③</sup> |                       |                                    |                           |      |             |      |             |      |                    |                    |
| 30  | HNF361X               | 20                                 | —                         | 7½   | —           | 20   | —           | 30   | 5                  | 15 <sup>④</sup>    |
| 60  | HNF362X               | 20                                 | —                         | 15   | —           | 50   | —           | 60   | 10                 | 30 <sup>④</sup>    |
| 100   | HNF363X▲              | 38                                 | —                         | 30   | —           | 75   | —           | 100  | 20                 | 50 <sup>④</sup>    |
| 200   | HNF364X▲              | 81                                 | —                         | 60   | —           | 125  | —           | 150  | 40                 | 50                 |

## Type 4/4X 316 Grade Stainless Steel

| Ampere Rating  | Standard       | With Viewing Window | Ship Weight (lbs.) | Horsepower Rating—3-Phase |      |             |      |             |      | 250 Volts DC | 600 Volts DC    |
|--|----------------|---------------------|--------------------|---------------------------|------|-------------|------|-------------|------|--------------|-----------------|
|  | Catalog Number | Catalog Number      |                    | 240 Volt AC               |      | 480 Volt AC |      | 600 Volt AC |      |              |                 |
|  |                |                     |                    | Std.                      | Max. | Std.        | Max. | Std.        | Max. |              |                 |
| 240V AC, 250V DC Fusible 3-Pole, 3-Wire                    |                |                     |                    |                           |      |             |      |             |      |              |                 |
| 30   | HF321SS▲       | —                   | 15                 | 3                         | 7½   | —           | —    | —           | —    | 5            | —               |
| 60   | HF322SS▲       | —                   | 19                 | 7½                        | 15   | —           | —    | —           | —    | 10           | —               |
| 100  | HF323SS▲       | —                   | 27                 | 15                        | 30   | —           | —    | —           | —    | 20           | —               |
| 200  | HF324SS▲       | —                   | 48                 | 25                        | 60   | —           | —    | —           | —    | 40           | —               |
| 600V AC, 250V DC Fusible 3-Pole, 3-Wire <sup>③</sup>       |                |                     |                    |                           |      |             |      |             |      |              |                 |
| 30   | HF361SS        | HF361SSW            | 17                 | 3                         | 7½   | 5           | 15   | 7½          | 20   | 5            | —               |
| 60   | HF362SS        | HF362SSW▲           | 21                 | 7½                        | 15   | 10          | 30   | 15          | 50   | 10           | 30 <sup>④</sup> |
| 100  | HF363SS        | HF363SSW▲           | 28                 | 15                        | 30   | 25          | 60   | 30          | 75   | 20           | 50 <sup>④</sup> |
| 200  | HF364SS        | HF364SSW▲           | 54                 | 25                        | 60   | 50          | 125  | 60          | 150  | 40           | 50              |
| 600V AC, 250 V DC Non-Fusible 3-Pole, 3-Wire <sup>①③</sup> |                |                     |                    |                           |      |             |      |             |      |              |                 |
| 30   | HNF361SS       | HNF361SSW           | 15                 | —                         | 10   | —           | 20   | —           | 30   | 5            | —               |
| 60   | HNF362SS       | HNF362SSW▲          | 21                 | —                         | 20   | —           | 50   | —           | 60   | 10           | 30 <sup>④</sup> |
| 100  | HNF363SS       | HNF363SSW▲          | 26                 | —                         | 40   | —           | 75   | —           | 100  | 20           | 50 <sup>④</sup> |
| 200  | HNF364SS       | HNF364SSW▲          | 51                 | —                         | 60   | —           | 125  | —           | 150  | 40           | 50              |

▲ Built to order. Allow 6-8 weeks for delivery.

① Also used for 240 volt applications.

② Add "L" to end of catalog number for switches less line & load lugs with mounting hardware for crimp type or copper body lugs.

③ 200A switches are also rated 600V DC max.

④ 600V DC voltage and horsepower rating shown requires (2) poles to be connected in series.

⑤ Supplied with factory installed neutral.

# Introducing Type 316 Stainless Steel VBII Safety Switches



## Application

316 grade stainless steel provides an increased level of corrosion resistance when compared to standard 304 grade stainless, especially in atmospheres containing a high level of chlorine and other chemicals commonly encountered in marine, waste management, food & beverage, petrochemical, and mining applications.

## Features

- Available in 30-200A ratings and in both fusible and non-fusible versions
- Type 4/4X rated and suitable for both indoor and outdoor applications
- Unique, installer friendly enclosure design features a rolled out front flange that provides a superior level of protection against the entry of contaminants
- Tool free cover latches
- Ground bar supplied as standard
- Two, three and four point mounting is provided
- Metal handle with large plastic grip features a positive stop in both ON and OFF positions
- Optional viewing window is available which allows viewing of the visible blades and also of indicating type fuses on fusible versions.
- Stainless steel interior parts including the operating mechanism are provided as standard
- All switches are UL listed under file number E4776
- A wide range of accessories are available including 200% neutrals, gold plated PLC auxiliary contacts and isolated ground kits



## Heavy duty safety switches

## Type 4/4X safety switches in 316 grade stainless steel enclosures – Ordering information and dimensions

| Ampere Rating   | Catalog Number | Ship Weight (lbs.) and Stock or NS | HP Ratings<br>3 Phase AC Max.<br>(with time delay fuses) |      |      | DC HP Rating |         | Dimensions-Inches (Box) |         |         |
|---|----------------|------------------------------------|--|------|------|--------------|---------|-------------------------|---------|---------|
|   |                |                                    | 240V   | 480V | 600V | 250V DC      | 600V DC | Height A                | Width B | Depth C |
| 240V AC, 250V DC Fusible 3 Pole, 3 Wire (with ground bar)                       |                |                                    |  |      |      |              |         |                         |         |         |
| 30  | HF321SS        | 15 (NS)                            | 7/1/2  | ---  | ---  | 5            | ---     | 14.27                   | 6.65    | 5.32    |
| 60  | HF322SS        | 19 (NS)                            | 15   | ---  | ---  | 10           | ---     | 16.27                   | 9.17    | 5.32    |
| 100   | HF323SS        | 27 (NS)                            | 30   | ---  | ---  | 20           | ---     | 21.96                   | 9.65    | 5.34    |
| 200   | HF324SS        | 48 (NS)                            | 60   | ---  | ---  | 40           | ---     | 29.96                   | 14.62   | 6.63    |
| 600V AC, 250V DC Fusible 3 Pole, 3 Wire (with ground bar)                       |                |                                    |  |      |      |              |         |                         |         |         |
| 30  | HF361SS        | 17 (S)                             | 7/1/2  | 15   | 20   | 5            | ---     | 14.27                   | 6.65    | 5.32    |
| 60  | HF362SS        | 21 (S)                             | 15   | 30   | 50   | 10           | 30*     | 16.27                   | 9.17    | 5.32    |
| 100   | HF363SS        | 28 (S)                             | 30   | 60   | 75   | 20           | 50*     | 21.96                   | 9.65    | 5.34    |
| 200   | HF364SS        | 54 (S)                             | 60   | 125  | 150  | 40           | 50      | 29.96                   | 14.62   | 6.63    |
| 600V AC, 250V DC Non-Fusible 3 Pole, 3 Wire (with ground bar)**                 |                |                                    |  |      |      |              |         |                         |         |         |
| 30  | HNF361SS       | 15 (S)                             | 10   | 20   | 30   | 5            | ---     | 11.22                   | 6.65    | 5.32    |
| 60  | HNF362SS       | 21 (S)                             | 20   | 50   | 60   | 10           | 30*     | 16.27                   | 9.17    | 5.32    |
| 100   | HNF363SS       | 26 (S)                             | 40   | 75   | 100  | 20           | 50*     | 21.96                   | 9.65    | 5.34    |
| 200   | HNF364SS       | 51 (S)                             | 60   | 125  | 150  | 40           | 50      | 29.96                   | 14.62   | 6.63    |
| 600V AC, 250V DC Fusible 3 Pole, 3 Wire (with Viewing Window and Ground Bar)    |                |                                    |  |      |      |              |         |                         |         |         |
| 30  | HF316SSW       | 17 (S)                             | 7/1/2  | 15   | 20   | 5            | ---     | 14.27                   | 6.65    | 5.32    |
| 60  | HF362SSW       | 21 (NS)                            | 15   | 30   | 50   | 10           | 30*     | 16.27                   | 9.17    | 5.32    |
| 100   | HF363SSW       | 28 (NS)                            | 30   | 60   | 75   | 20           | 50*     | 21.96                   | 9.65    | 5.34    |
| 200   | HF364SSW       | 54 (NS)                            | 60   | 125  | 150  | 40           | 50      | 29.96                   | 14.62   | 6.63    |
| 600V AC, 250V DC Non-Fusible 3 Pole Wire (with Viewing Window and Ground Bar)** |                |                                    |  |      |      |              |         |                         |         |         |
| 30  | HNF361SSW      | 15 (S)                             | 10   | 20   | 30   | 5            | ---     | 11.22                   | 6.65    | 5.32    |
| 60  | HNF362SSW      | 21 (NS)                            | 20   | 50   | 60   | 10           | 30*     | 16.27                   | 9.17    | 5.32    |
| 100   | HNF363SSW      | 26 (NS)                            | 40   | 75   | 100  | 20           | 50*     | 21.96                   | 9.65    | 5.34    |
| 200   | HNF364SSW      | 51 (NS)                            | 60   | 125  | 150  | 40           | 50      | 29.96                   | 14.62   | 6.63    |

\* 600V DC voltage and horsepower ratings require 2 poles to be connected in series.

\*\* Also used for 2 pole and for 240V applications

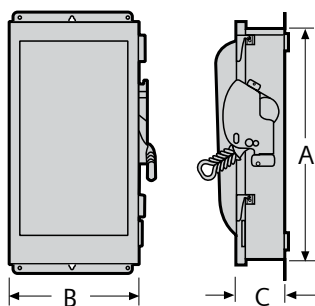
### Lug wire ranges -Line, load and neutral

30-100A switches are suitable for use with 60° or 75°C wire.

200A switches are suitable for use with 75°C rated wire.

| Switch Ampere Rating | Wire Range with Wire Bending Space per NEC Table 373-6 |
|----------------------|--|
| 30                   | #14-6 AWG (Cu/Al)                                      |
| 60                   | #14-2 AWG (Cu/Al)                                      |
| 100                  | #14-1/0 AWG (Cu/Al)                                    |
| 200                  | #6 AWG-300 Kcmil (Cu/Al)                               |

### Type 4/4x 30-200A



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