

To: SIEMENS E & A  
Attn:  
Fax:

NOTES:

1. SIZE: 6.125" X 11.375" rcr .125"
2. MATERIAL: Semi-Gloss Paper w/ Permanent Adhesive
3. INK COLOR: Black, PMS 185 Red

6.125"
.125" rcr  
X4

## SIEMENS

|                         |  |                                  |
|-------------------------|--|----------------------------------|
| <b>Cat. No. HNF663S</b> | <b>Non-Fusible 6 Pole Heavy Duty Safety Switch</b> | <b>Type VB II</b>                |
| <b>100 Amps Maximum</b> | <b>600 Volts AC (V~) Maximum</b>                   | <b>250 Volts DC (V=) Maximum</b> |
| <b>NEMA Type 4 / 4X</b> | <b>Watertight Stainless Steel</b>                  |                                  |

| Horsepower Ratings | 240 VAC <sup>1</sup><br>1Ø | 240 VAC<br>3Ø | 480 VAC <sup>1</sup><br>1Ø | 480 VAC<br>3Ø | 600 VAC <sup>1</sup><br>1Ø | 600 VAC<br>3Ø | 250 VDC <sup>1</sup> |
|--------------------|----------------------------|---------------|----------------------------|---------------|----------------------------|---------------|----------------------|
| <b>Max. HP</b>     | 15                         | 40            | 30                         | 75            | 40                         | 100           | 20                   |

Suitable for use as service equipment in the U.S.A. when neutral kit **HN623** or ground lug kit **HG61234** is installed.

**Fuse and Short Circuit Information**

This switch is suitable for use on a circuit capable of delivering not more than 200,000 amperes, RMS symmetrical, 600 volts maximum when protected by class J, R or T fuses rated 100 amperes maximum.

**Danger** – Unless Class J, R or T fuses are used to protect this switch, it may present a risk of fire and injury to persons if installed on circuits capable of delivering more than 10,000 amperes, RMS symmetrical.

This switch is suitable for use on a circuit capable of delivering not more than 10,000 amperes, RMS symmetrical, 600 volts maximum, when protected by Class K fuses, Class H fuses or a UL Listed Circuit Breaker rated for 10,000 amperes, RMS symmetrical, 600 volts maximum.

This switch is suitable for use on a circuit capable of delivering not more than 10,000 amperes, 250 volts DC maximum, when protected by fuses marked with an interrupting rating of 10,000 amperes, 250 volts DC.

**Danger** – Unless fuses marked for an interrupting rating of 10,000 amperes at 250 volts DC are used to protect this switch, this switch may present a risk of fire and injury to persons if installed on circuits capable of delivering more than 10,000 amperes.

**⚠ DANGER**

**Hazardous voltage.**  
**Will cause death or serious injury.**

- Disconnect and lock out power supplying this switch before working on this switch.
- Turn off switch before removing or installing fuses if so equipped.
- Always use a properly rated voltage sensing device on all fuse clips (Fusible) or all load side terminals (Non-Fusible) to confirm switch is off.
- Close or replace cover before turning power on.

**Terminal & Wire Information** **USE 75°C COPPER OR ALUMINUM WIRE**

| Terminal & Wire Information          |            |  |                                  |
|--------------------------------------|------------|--|----------------------------------|
| Description                          | Wire Range | Wire Tightening Torque <sup>5</sup>  | Lug Mounting Torque <sup>5</sup> |
| <b>Line, Load &amp; Main Neutral</b> | 14-1/0 AWG | 35 lb-ins. 14-10 AWG / 40 lb-ins. 8 AWG<br>45 lb-ins. 6-4 AWG / 50 lb-ins. 3-1/0 AWG | 80 lb-ins.                       |
| <b>Service Ground</b>                | 14-4 AWG   | 35 lb-ins. 14-10 AWG / 40 lb-ins. 8 AWG<br>45 lb-ins. 6-4 AWG                        | 24 lb-ins.                       |

Inspection record number:

UL Listed Compression Lugs (Refer to manufacturers instructions for proper installation)<sup>6</sup>

| Wire Size<br>(AWG OR kcmil) | Burdny              |         | Thomas & Betts   |                | IlSCO              |         |
|-----------------------------|---------------------|---------|------------------|----------------|--------------------|---------|
|                             | Cu Only             | Cu / Al | Cu Only          | Cu / Al        | Cu Only            | Cu / Al |
| 6                           | YA6C-L Box<br>YA6C  | YA6CA1  | 54105<br>54905BE | 61107<br>60107 | CRB-6<br>CRB-6L    | ACL-6   |
| 4                           | YA4C-L Box<br>YA4C  | YA4CA1  | 54106<br>54906BE | 61112<br>60112 | CRB-4<br>CRB-4L    | ACL-4   |
| 2                           | YA2C-L2 Box<br>YA2C | YA2CA5  | 54107            | 61116          | CRA-2<br>CRB-2L    | ACL-2   |
| 1                           | YA1C-L2<br>YA1C     |         | 54108<br>54947BE | 61122          | CRB-1-14<br>CRA-1L |         |
| 1/0                         |                     |         |                  | 61130          |                    |         |

**Accessories**

|                                  |          |                                      |         |                         |  |
|----------------------------------|----------|--------------------------------------|---------|-------------------------|--|
| Aux. Switch (1NO - 1NC)          | HA161234 | Neutral                              | HN623   | Isolated Ground Lug Kit | HG261234                                       |
| Aux. Switch (2NO - 2NC)          | HA261234 | 200% Neutral                         | HNC263  | Wire Grip Kit (CU)      | HLC63  |
| Low Voltage Aux. Sw. (1NO - 1NC) | HA361234 | Ground Lug Kit (Wire Range 14-4 AWG) | HG61234 | Hub Kits                | SSH125 (1 1/4") SSH150 (1 1/2")<br>SSH200 (2") |
| Compression Lug Neutral Barrier  | HCL623   |                                      |         |                         |  |

**Replacement Parts**

|           |        |                    |      |                       |             |
|-----------|--------|--------------------|------|-----------------------|-------------|
| Line Base | HNB623 | Wire Grip Kit (Al) | HL63 | Handle / Handle Guard | HH461234S   |
| Load Base |        | Mechanism          |      | Door                  | HNF663SDOOR |

Protected by one or more of the following US Patents: 6,134,979, 6,356,460, 5,945,650, 5,990,439.

<sup>1</sup> Use outer two poles.

<sup>5</sup> When tightening or replacing connectors, refer to lug mounting torque in Terminal & Wire Information Table.

<sup>6</sup> If compression lugs are used for the neutral, order compression lug neutral barrier kit **HCL623**.

**Siemens Energy & Automation, Inc.**  
Bellefontaine, Ohio 43311 U.S.A  
<http://www.sea.siemens.com/power>  
Assembled in Mexico

Pc. No. 500448AL02  
0904

- OK to print
- OK to Print with corrections as marked
- Make corrections, resubmit corrected proof
- Job will not be printed unless approved by customer.

|             |       |               |                 |                   |            |
|-------------|-------|---------------|-----------------|-------------------|------------|
| Artwork By: | Date: | AUTHORIZED BY | DATE            | PART NUMBER       | REV        |
| Proofer:    | Date: |               | <b>06/06/08</b> | <b>500448AL02</b> | <b>23P</b> |