APPLICATION

WST Series Enclosed heavy duty safety switches are used in conduit systems as a means of disconnecting power from motors, lighting and power circuits. Fusible type WST switches also provide short circuit protection (cartridge fuses not included) and are suitable for use as service equipment when the neutral is bonded to the enclosure in accordance with bonding instructions provided with the unit.

WST Series switches may be pole mounted or installed on flat vertical surfaces in industrial areas that are subjected to dust, dirt, chemical vapors, or moisture, both indoors or outdoors.

The cover is interlocked with the body and operating mechanism to prevent opening of the enclosure, except when the switch is in the "OFF" (open) position.

The WST Safety Switch enclosure should be installed, inspected, maintained and operated by qualified and competent personnel.

DIMENSIONS

Approximate Dimensions (in.)

<table>
<thead>
<tr>
<th>Amps</th>
<th>a</th>
<th>b</th>
<th>c</th>
<th>d</th>
</tr>
</thead>
<tbody>
<tr>
<td>30</td>
<td>6-9/16</td>
<td>20-1/16</td>
<td>12-3/4</td>
<td>7-1/4</td>
</tr>
<tr>
<td>60</td>
<td>6-9/16</td>
<td>20-1/16</td>
<td>12-3/4</td>
<td>7-1/4</td>
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<tr>
<td>100</td>
<td>9-9/16</td>
<td>26-5/16</td>
<td>15-7/8</td>
<td>8-1/4</td>
</tr>
</tbody>
</table>

INSTALLATION

WARNING

Electrical power must be turned OFF before and during installation and maintenance.

1. Select a mounting location that will provide suitable strength and rigidity for supporting the enclosure. Fasten enclosure to mounting location with the four mounting lugs using 3/8 inch diameter mounting bolts or screws. The mounting lugs may be rotated 90 degrees or moved to the vertical centerline position for pole mounting.

WARNING

WST housing must be securely attached into a permanently grounded system in accordance with Article 250 of the National Electrical Code.®

2. Determine the type of distribution system to be used that will comply with NEC requirements and ensure grounding continuity.

Proper grounding of systems and circuit conductors is required to limit hazardous voltages caused by lightning, line surges or unintentional contact with higher voltage lines and to stabilize the voltage to ground during normal operation. All conductive materials that enclose the electrical conductors or attached equipment or forming part of such equipment must be grounded. A permanent conducting connection must be made between all such equipment and the earth.

Typical distribution systems are illustrated below:

Figure 1.
Grounding Systems

®National Electrical Code is a Registered Trademark of the National Fire Protection Association.
3. Attach enclosure into electrical distribution system. See Table I for conduit opening sizes. Removal of the threaded bushings will permit use of a larger conduit size. The locknut and bushing used must meet the requirements of the National Electrical Code®.

<table>
<thead>
<tr>
<th>Table I</th>
<th>CONDUIT OPENINGS</th>
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</thead>
<tbody>
<tr>
<td></td>
<td>Switch Rating (amp)</td>
</tr>
<tr>
<td>30</td>
<td>1</td>
</tr>
<tr>
<td>60</td>
<td>1-1/4</td>
</tr>
<tr>
<td>100</td>
<td>1-1/2</td>
</tr>
</tbody>
</table>

4. Install proper rated cartridge fuses (not included with unit) where used. The 240VAC/250VDC units are arranged for National Electrical Code® Class H fuses. The 600VAC fuse clips are arranged for Class H fuses, however, they may be field converted to Class J fuses.

5. Pull all phase conductors and grounding conductors into enclosure and make connections to the line pressure connector terminations following the wiring pattern established

6. Pull all load side conductors into enclosure and make connections to the LOAD pressure connector terminations following the wiring pattern established for your system.

7. Test wiring for correctness with continuity checks and for unwanted grounds with insulation resistance tester.

8. Place operating handle in “OFF” position, then close cover and secure with the two compression spring draw-pull catches.

9. Before turning on power to WST safety switch, check cover safety interlock for proper operation. With the cover closed, place operating handle into “ON” position and verify that the cover cannot be opened (with catches loose).

CAUTION
Forcing the switch operator handle mechanism without enclosure door properly closed and latched will damage safety interlock.

MAINTENANCE

WARNING
Always disconnect primary power source before opening enclosure for inspection or service.

1. Frequent inspection should be made. A schedule for maintenance check should be determined by the environment and frequency of use. It is recommended that it should be at least once a year.

2. Perform visual, electrical, and mechanical checks on all components on a regular basis.
   - Visually check for undue heating evidenced by discoloration of wires or other components, damaged or worn parts, or leakage evidenced by water or corrosion in the interior.
   - Electrically check to make sure that all connections are clean and tight, and that blade contacts are clean and make or break as required.
   - Mechanically check that all parts are properly assembled, and operating mechanisms move freely.

WARNING
If any part of the switch components appears to be broken or damaged,

**DISCONTINUE USE IMMEDIATELY.**

Replace, or properly repair the item before continuing service.

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