

## Installation/Operator Instructions Model THTS-50

### Wiring Instructions

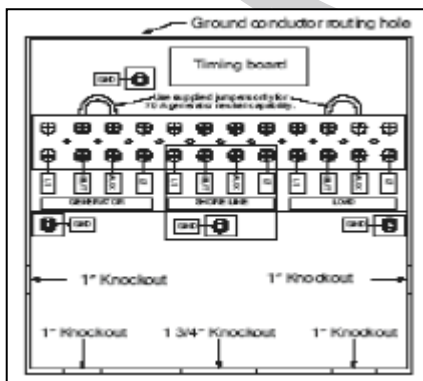
**WARNING:** The THTS-50 is rated for use on a circuit capable of delivering not more than: - 5000 rms symmetrical amperes - 240Vac max operating voltage. When L1 and L2 (rated for 35A each) are connected in phase, and supplied jumpers are used as shown generator-neutral capability will increase up to 70A.

All field wires used have to be rated to at least 105C. For:

- 1 to 4AWG wires, use 35 in - lbs. torque
- 6 to 14AWG wires, use 30 in - lbs. torque
- 16 to 20AWG wires, use 25 in - lbs. torque

Ground terminal bar is suitable for 2-14AWG conductors using 35 in - lbs. torque. All grounds are connected inside of the THTS-50.

**Warning:** DIP switch on the timing board bypasses the time delay, is used for testing during the manufacturing process, and should not be tampered with. Bypassing the timing board will eliminate the time for the generator voltage to stabilize (default DIP switch position is OFF or down).





## **OEM Installation of the THTS-50**

THTS-50 is for a 50 Amp AC service. It can be mounted in any position, leaving enough room for the shoreline and generator wire connections. To minimize voltage drop across the wire, install the THTS-50 as close to the generator and shore power cord entrance as possible. Do not install close to appliances that are a source of heat or water (such as water heaters, furnaces, and under refrigerators). It is not designed for mounting in wet locations. The THTS-50 must be protected from direct contact with water and debris. This unit employs components that tend to produce arcs or sparks. To prevent fire or explosion, do not install in compartments containing batteries or flammable materials (LP gas). THTS-50 is not ignition protected. Risk of electric shock: more than one disconnect switch may be required to de-energize the equipment before servicing. Do not mount in zero-clearance compartment. Overheating may result. The THTS-50 must be installed by a qualified electrician. Do not drill through the metal housing. Debris and metal shavings can interfere with the operation of the transfer switch. For wiring, use the existing knockouts.

### **Operation:**

When the THTS-50 is plugged into the shore power, the THTS-50 will automatically provide AC power to all AC appliances. To operate your appliances from the on-board generator, simply start the generator and the THTS-50 will (after 20-30 seconds) automatically transfer the electrical power to AC appliances. The time delay of 20-30 seconds allows the generator voltage to stabilize.