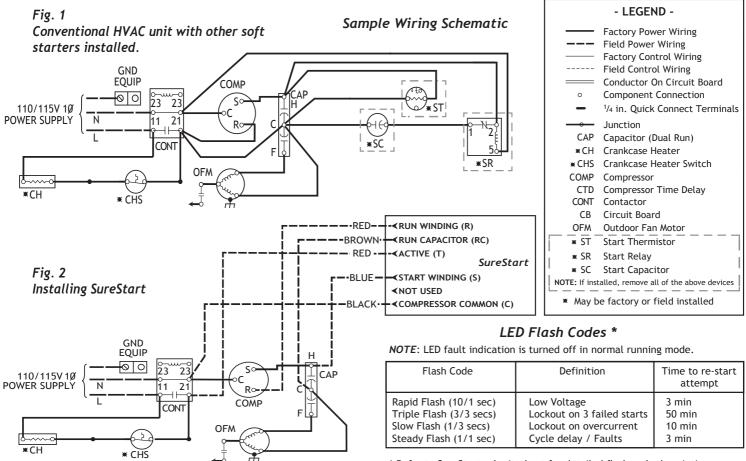
## DISCONNECT ALL SUPPLY VOLTAGES BEFORE WORKING ON ANY EQUIPMENT.



Review the schematic carefully to identify the connection points.

\* Refer to SureStart submittal set for detailed flash code descriptions.

CAUTION: The Run Winding is not connected to the Run Capacitor. The Run Capacitor is usually 20 to 60 µF.

WARNING: 1) All voltage to equipment MUST be disconnected before removing any devices.

- 2) Allow 2 minutes to discharge run capacitor before disconnecting.
- 3) Prior to installation, be sure all start capacitors & start relays, along with hard-starters and/or any other related devices, are removed.

4) Do not swap the Run & Start Windings.

5) The start capacitor is built into the soft starter.

6) In accordance with UL508 standard, use the below tightening torques. Loose terminals can lead to heating & subsequent damage to the soft starter. 7) OPENING OF THE SOFT STARTER UNIT WILL VOID THE WARRANTY!

## FIELD WIRING TERMINALS:

Wire Range: 8 to 12 AWG Cu, stranded, for terminals (Run Winding (R) and Active(T))

12 to 16 AWG Cu, stranded, for terminals (Run Capacitor (RC), Start Winding (S), and Compressor/Motor Common (C), these are supplied) *Tightening Torque:* 11.5 lbs-in large terminals, 4.5lbs-in small terminals.

Field wiring conductors shall be rated 167°F [75°C]

Minimum end use enclosure size: 10" x 8" x 6"

Suitable for use on a circuit capable of delivering no more than 5000rms symmetrical amperes, 240 volts maximum, when protected by a non-time delay RK5 fuse or circuit breaker rated 80A, or a time delay fuse rated 70A. The device does not provide current limiting control or equivalent.

SureStart is NOT an overcurrent protection device and must NOT be used as a replacement for any primary circuit overcurrent protection.



SureStart...Grid Not Required



SureStart 110/115V HVAC Installation For SureStart SSOx Series

## Parts List

- 1 SureStart Soft Starter
- 1 Red Lead
- 1 Blue Wire
- 1 Black Wire
- 1 Brown Wire
- 1 Mounting Block
- 1 Green Terminal

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## Typical HVAC Application



1) Disconnect all voltage to the HVAC equipment.

2) Secure the base for the SureStart

 $\underline{\omega}$ 

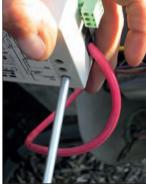
inside control box.





Remove the compressor RUN WIRE from the contactor or RUN CAPACITOR TERMINAL, as applicable. 4) Strip the compressor RUN WIRE at least 1/2 in.





5) Attach the compressor RUN WIRE to the SureStart RUN WINDING terminal



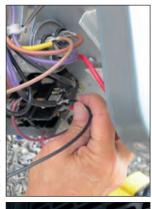
6) Attach the BROWN WIRE supplied with 7) Identify the cable connecting the the SureStart to the RUN CAPACITOR TERMINAL on the Sure-Start.



Attach the flagged end of the BROWN RUN CAP. \*\* WIRE the same terminal of the the connection to the RUN CAP. contactor and the RUN CAP. Remove 8



Attach the BLACK WIRE (supplied) CONNECTOR. to COMPRESSOR COMMON on the SureStart GREEN TERMINAL



Attach the flagged end of the BLACK WIRE to the COMPRESSOR COMMON



on the "T" side of the contactor.

10) Attach the BLUE WIRE (supplied) to GREEN TERMINAL CONNECTOR. the START WINDING on the SureStart



11) Attach the flagged end of the BLUE compressor. (This is the Herm (H) terminal for Dual Compressor/Fan to the START WINDING of the terminal on the capacitor also joins Capacitors.) RUN CAPACITOR. Ensure that this WIRE to the other terminal of the



12) Attach the RED WIRE (supplied) to the ACTIVE TERMINAL on the SureStart.



13) Remove the loose wire (from step 7) end of the ACTIVE WIRE in its place. contactor and attach the stripped from the ACTIVE input of the



14) Apply power to the equipment and cycle to ensure proper operation.

NOTE: The SureStart device could

take up to six (6) starts to optimize

pertormance.

Dual Compressor/Fan Capacitors.)

4.5lbs-in small terminals 11.5lbs-in large terminals

\*\*(This is the Common (C) terminal for

torque settings: standard, use the following In accordance with UL508