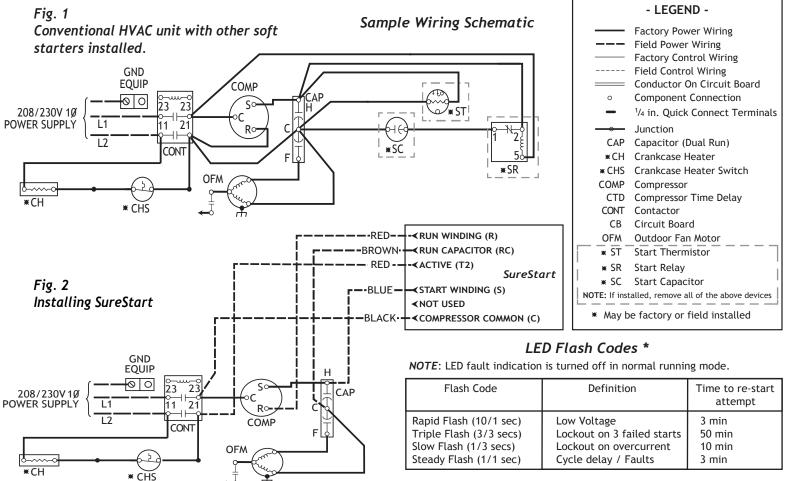
DISCONNECT ALL SUPPLY VOLTAGES BEFORE WORKING ON ANY EQUIPMENT.



Review the schematic carefully to identify the connection points.

\textit{CAUTION:} The Run Winding is not connected to the Run Capacitor. The Run Capacitor is usually 40 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(T2))

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.



INSTRUCTION GUIDE

SureStart 208/230V HVAC Installation For SureStart SS1x Series

Parts List

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

IG5601EH 03/14

^{*} Refer to SureStart submittal set for detailed flash code descriptions.

Typical HVAC Application



1) Disconnect all voltage to the HVAC equipment.



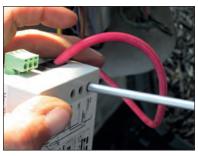
2) Secure the base for the SureStart inside control box.



3) 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.



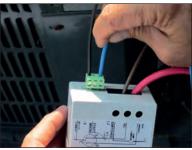
contactor and the RUN CAP. Remove the connection to the RUN CAP. Attach the flagged end of the **BROWN** WIRE the same terminal of the RUN CAP. **



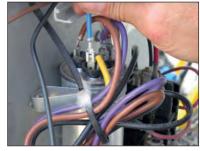
8) Attach the BLACK WIRE (supplied) to COMPRESSOR COMMON on the SureStart GREEN TERMINAL CONNECTOR.



9) Attach the flagged end of the BLACK 10) Attach the BLUE WIRE (supplied) to WIRE to the COMPRESSOR COMMON on the "T" side of the contactor.



the START WINDING on the SureStart GREEN TERMINAL CONNECTOR.



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



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



from the ACTIVE input of the contactor and attach the stripped end of the ACTIVE WIRE in its place.



13) Remove the loose wire (from step 7) 14) Apply power to the equipment and cycle to ensure proper operation.



In accordance with UL508 standard, use the following torque settings: 11.5lbs-in large terminals 4.5lbs-in small terminals

**(This is the Common (C) terminal for Dual Compressor/Fan Capacitors.)

NOTE: The SureStart device could take up to six (6) starts to optimize performance.