

Quick Model Selection:

- Step 1: Check your **Voltage**
- Step 2: Check your **Frequency**
- Step 3: **Select model based on HVAC unit rated RLA (Run Load Amperage)**

SureStart US Models				
Model Number	Voltage	Frequency (Hz)	RLA Rating (From Unit Product Data)	Phase
SS0B12-20SN	115	50/60	12 - 20	Single
SS1B08-16SN	230	50/60	8 - 16	
SS1B16-32SN	230	50/60	16 - 32	
SS2A04-28SN	208-230	50/60	4 - 28	Three
SS3A04-27SN	380	50/60	4 - 27	
SS5A04-27SN	460	60	4 - 27	

Quick HVAC Application Criteria

Compressor Types	Requirements
Scroll (1&2-stage)	None - Internal pressure equalization standard
Reciprocating	Bleed/equalizing TXV - Pressure equalization required
Rotary & Screw	Bleed/equalizing TXV - Pressure equalization required

Application Notes:

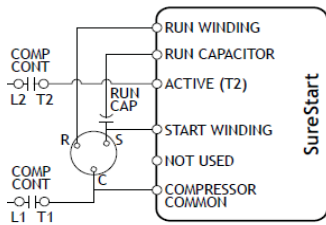
- AC drive compressor motor applications only
- PSC Motors only - SureStart cannot be installed on units with Variable Speed compressors
- Motor start time < 0.5 secs
- Inlet and Discharge pressures must be equalized on compressor motor at startup

Back-up Generator & Solar (PV) Considerations - 1-Phase

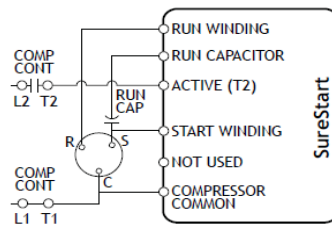
Existing Generator/Solar Systems	Drastically lowered LRA potentially allows connecting HVAC to existing generator/solar inverter system
New Generator/Solar Systems	Drastically lowered LRA potentially allows generator/solar inverter sizing flexibility (smaller) when designing new system including HVAC

Quick Installation Information

1-Phase Connections

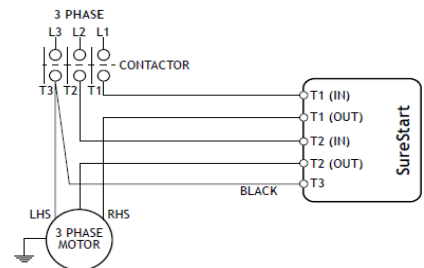


230V with Two Pole Contactor

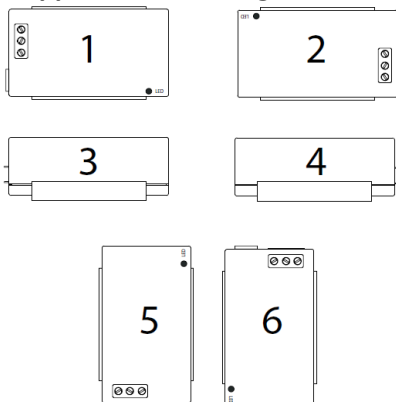


115V/230V with Single Pole Contactor

3-Phase Connection

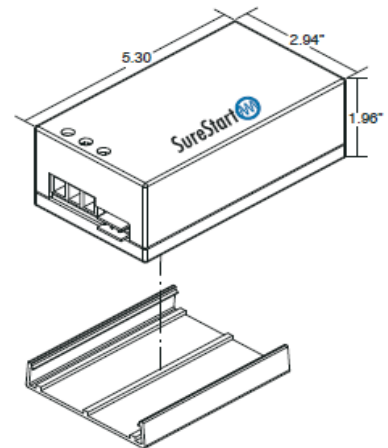


Approved Mounting Positions



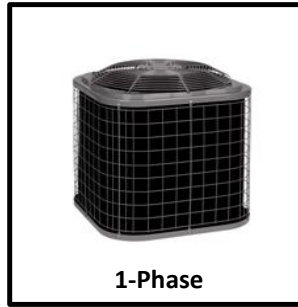
SureStart designed for service/control/electrical compartment mounting.

(Bracket mounting screws and wiring leads (1-ph) included)



SureStart HVAC Application Benefit Summary

SureStart measures the characteristics of a motor and then optimizes electrical input over several start cycles until the starting current, or Locked Rotor Amps (LRA) is reduced by 50 – 70%. Reduced LRA leads to significantly decreased voltage fluctuation throughout the circuit, and reduces both electrical and mechanical wear on the entire system.



1-Phase



3-Phase

Reduces compressor LRA/starting current
Reduces compressor starting torque

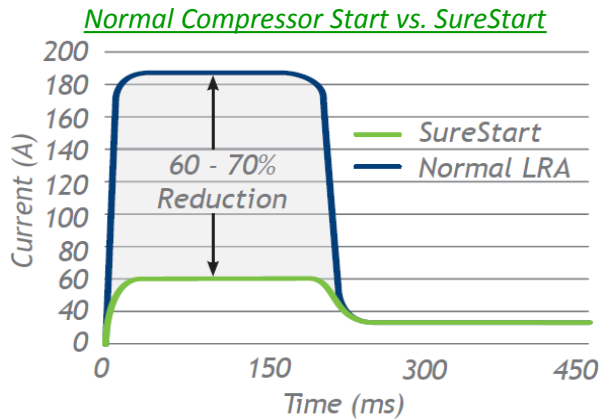
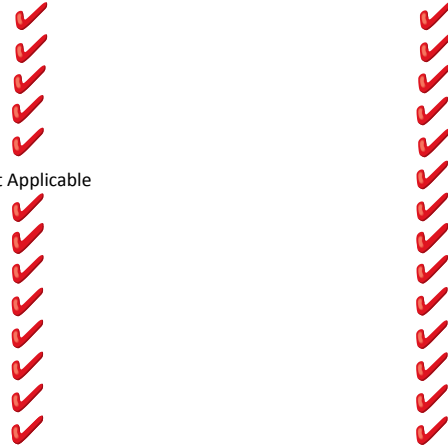
- Eliminates light flicker/dimming on compressor startup
- Eliminates power interruption to sensitive electronics
- Quieter compressor startup
- Low voltage compressor starting/stalling protection
- Protection from scroll compressor reversal
- Protection from phase reversal: 3-Phase
- Reduces stress on compressor at startup
- Power interruption time delay protection

Backup generator application flexibility
Solar inverter application flexibility
Delivers HVAC conformance to utility peak current regulations
Supports meeting utility incentive program requirements
Helps stabilize utility grid voltage
Contributes to overall utility power quality

Up to 70%
 Up to 30%

Not Applicable

Up to 40%
 Up to 70%



Gen-Pro
630-240-9139
www.gen-pro.biz
 Generac Dealers PROMO Code: "GENDEAL"

SureStart HVAC "Connection"

You can find SureStart in most HVAC applications where lower in-rush currents (LRA) are required!