Air Conditioner Soft Start Kit for Normal Power Conditions & Emergencies



The Best A/C Soft Start Kit for Home Air Conditioners up to 3-Ton or 6-Ton Sizes



Get maximum comfort and performance from virtually any central air conditioning system by upgrading HVAC systems with a SoftStart HomeTM soft starter.

SoftStart Home[™] reduces the power required to start an air conditioner by 50-70%! By dramatically reducing the startup draw, using a SoftStart Home results in many important advantages:

- Quiet A/C startup no jarring thump, flickering lights or tripping breaker when A/C starts.
- Low-amp startup cuts strain on compressor to help extend A/C life.
- Helps start and run A/C on a backup generator.
- Starts home A/C with solar energy system without straining battery power supply to other appliances.
- Model SSH6T is compatible with 115VAC-230VAC air conditioners; up to 6-ton/72,000 BTUs.
- Model SSH3T is compatible with 115VAC-230VAC air conditioners; up to 3-ton/36,000 BTUs.

A/C POWER INNOVATION BREAKTHROUGH

SOFTSTART HOME FEATURES & ADVANTAGES

- Works with single-phase 110/220 VAC air conditioners
- Module housing is sealed with epoxy resin to withstand extreme environments
- Fastens securely to A/C interior surface with fasteners and/or commercial-strength adhesive backing
- Soft start circuitry delivers up to 70% inrush current reduction during A/C or heat pump startups
- Greatly reduces heat-induced stress on compressor windings to prolong compressor life
- LEDs indicate proper operation and other startup conditions
- Easy installation (less than 15 minutes)
- Allows A/C or heat pump startup even when using lower power backup source (portable generator, solar-energized batteries, etc.).
 Keeps A/C running during blackouts, brownouts or other electrical power emergencies
- Includes easy crimp-on wire connectors, fastening hardware and zip-ties to secure wiring
- Rated for 50-amp power connection

Advanced Soft Starter For Your Home - Quiet A/C Startup - Comfort Day and Night - Starts A/C or Heat Pump on Solar/Batteries or Small Generator During Power Outage - Protects Against Compressor Wear and Tear - For 115VAC to 230VAC 50-80 Hz Motors and Up To 6-Ton Compressors - 72,000 BTUs - WARNINGS Disconnect power before opening A/C or installing. Disconnec

BONUS INSTALLATION KIT



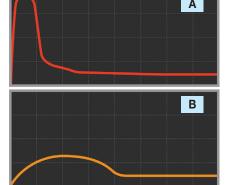
Complete installation kit provides all the connectors and fasteners to meet virtually any air conditioner or heat pump wiring requirements.



PERFORMANCE DETAILS

SOFTSTART HOME™ CAPABILITIES

Sharply reduces start-up power demand of appliances that require a high inductive load at startup (such as air conditioners and heat pumps). SoftStart Home reduces the startup power demand by up to 70%.



Graph A indicates startup power of a typical air conditioner. The high spike at STARTUP means the A/C pullS 7-8 times the power normally needed to RUN the A/C. This can overheat compressor windings and cause premature failure.

Graph B indicates startup of a typical RV air conditioner powered through a SoftStart Home module. The power spike is quickly reduced to eliminate noise, vibrations, premature compressor failure, and other problems associated with A/C startup.

Standard central A/C uses 7-8 times the normal running amperage during startup.
 SoftStart Home startup uses only 2-3 times the normal running amperage during startup.

TECHNICAL SPECIFICATIONS - SOFTSTART HOME A/C STARTER

Nominal working voltage: 110VAC (90~135VAC) & 220VAC

(187~266VAC), 1 phase

Power consumption: Less than 3W
Protection restart time interval: 3 minutes

Maximum continuous working voltage: 135VAC/266VAC

Maximum continuous working current: SSH6T-42A; SSH3T-18A

Maximum surge current: SSH6T-130A; SSH3T-120A (<350 ms)

Soft start-up time: $1\pm0.5s$ Current consumption: 48mA

Operation hours: More than 45,000 hours (rated working

temperature)

Protection restart time interval: 3 minutes

Working temperature: -40°F to 185°F (-40°C to 85°C) Working humidity: $0{\sim}95^{\circ}\text{RH} - {<}104^{\circ}\text{F}$ (${<}40^{\circ}\text{C}$)

SSH6T Dimensions 8 H x 3.7 W x 2.7 D in.

 $(203 \times 94 \times 69 \text{ mm})$

SSH3T Dimensions: 5.8 H x 2.9 W x 2.0 D in. $(148 \times 74 \times 51 \text{ mm})$

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SSH6T Weight 1 lb. 13 oz. (0.82 kg) SSH3T Weight: 1 lb. 5.2 oz. (0.60 kg)

Warranty: One-year limited warranty (standard);

Three-year limited warranty available (see details inside product package)

Agency Listings:





Specifications are subject to change without notice.

INSTALLATION / OPERATION

DETERMINE A LOCATION

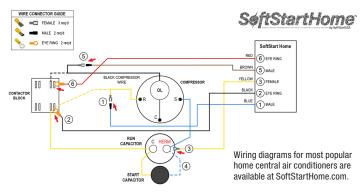
 A SoftStart Home unit easily attaches under the central A/C cover to a vertical surface near the compressor and other components. Secure with provided fasteners and/or adhesive pad on back of unit.

CONNECT WIRING

 Turn off electric power to A/C or heat pump, then make wiring connections based on diagrams provided at SoftStartHome.com. All wiring connectors are provided with each unit.



Size and location not shown to scale.



RUN A/C or HEAT PUMP

Turn on electric power to A/C or heat pump, then run for 30 minutes at ambient temperature to calibrate SoftStart Home unit (set thermostat to near-outdoor temperature). Then run A/C or heat pump normally.

LED INDICATORS

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		Start .ED2	Self-Test LED3	
	Green light indicates normal operation.	 Red light indicates beginning of soft start process. Turns 	 Red light indicates beginning of self-tat every startup. 	
•	Red light indicates "protect" mode from over	off when startup is	Turns off when se test is complete.	lf-

PRODUCT DIMENSIONS

heat or other condition.

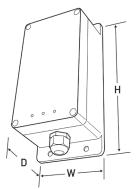
Auto resets in 3 minutes

MODEL SSH6T

8" H x 3.7"W x 2.7"D (203 x 94 x 69 mm)

MODEL SSH3T

5.8" H x 2.9"W x 2.0"D (148 x 74 x 51 mm)



SKU NUMBER	UPC	DESCRIPTION	PACKAGE DIMENSION	PACKAGE CUBE	PACKAGE WEIGHT	CASE PACK
SSH6T	860010067307	Soft starter for 6-ton A/C unit	9.75 W x 5.5 H x 4.5 D in.	0.140	2 lb.	10
SSH3T	860010067352	Soft starter for 3-ton A/C unit	7.75 W x 5.5 H x 3.5 D in.	0.086	1.5 lb.	10



