



Installation, Operation & Application Guide

For further information visit us at www.active-controlsllc.com.

Important Safety Information



- Fully Insert all plugs.
- Keep away from children and pets.
- Do not repair or modify.
- For outdoor use only.
- Store indoors when not in use.

Features

- ✓ Starting current reduction and programmable startup power.
- ✓ Mobile app is Bluetooth-enabled and compatible with iOS and Android devices.
- ✓ Built in Surge protection.
- ✓ Waterproof, UV-proof module resists weather extremes.
- ✓ Anti-theft design to easily secure to power source.
- ✓ Diagnostic LED indicators inside of box for technicians.

Application

The ACS20PT (20amps) is intended for starting a single high load such as a table saw or other power tools with a high starting current. The Power Tools starter is monitoring the current and when it detects a rise in the current it will enter the softstart mode and limit the current. These devices will monitor system health including current, voltage, frequency, with programmable startup power.

SPECIFICATIONS

- **Inputs:** L1 & N.
- **Nominal Voltage:** 120 VAC, 50-60 Hz.
- **Over Voltage Limits:** ≈132 VAC.
- **Under Voltage Limits:** ≈103 VAC.
- **Surge Protection:** 2100 Joules.
- **Current:** Maximum nominal= 20 Amp and 30 Amp.
- **Over Current Limits:**
ACS20P = 22A.
- **Operating Temperature:** -4°F to 176°F (-20°C to 80°C)
- **Storage Temperature:** -40°F to 149°F (-20°C to 65°C)
- **Humidity:** 5-95% Non-considering.
- **Weight:** 2.1 Lbs. (0.95kg).
- **Warranty:** One year limited warranty (standard)

Installation

1. Plug unit into your most convenient power source or generator.
2. Allow self-diagnostic function to determine if power is good.
3. After 45-60 seconds, the Output LED will indicate when there is "live" power.
4. Plug the appliance power cord into the ActiveStart outlet.

If the Output LED shuts off and power to the appliance is off, that indicates a Power fault related to Current, Voltage or any other fault that has occurred. The Mobile App will show the cause of the shutdown.



Scan to see a full specification, installation, & more on our website

Dimensions



Length = 19"

Width = 4"

Height = 1.5"

Performance

The ActiveStart is a unique device that is installed in series with the loads. This is quite different from a standard softstart that is wired directly to a motor and only has one function which is to start the motor.

The ActiveStart responds to an inductive load which generates a large spike in current and quickly current limits the device while initiating a softstart of the load. This is done without disturbing other appliances that are currently running on the same power source.

The Graphs below showcase this functionality:

LED INDICATORS

ORANGE LIGHT	MEANING
ORANGE LIGHT ON ONLY	POWER SOURCE IS SAFE TO USE.

App How To

Use our app for optimizing the start.

There are 3 parameters in the app for optimizing the start.

Ramp Time: Use this to increase the softstart time which will increase the number of pulses.

Softstart Level: This is the level that triggers the softstart. Important not to set it too low as motor will require a min amount.

Starting Power: Sets the initial duty cycle/boost before doing the ramp.

The combination of all 3 parameters will help achieve the best start with the most reduction in current.

