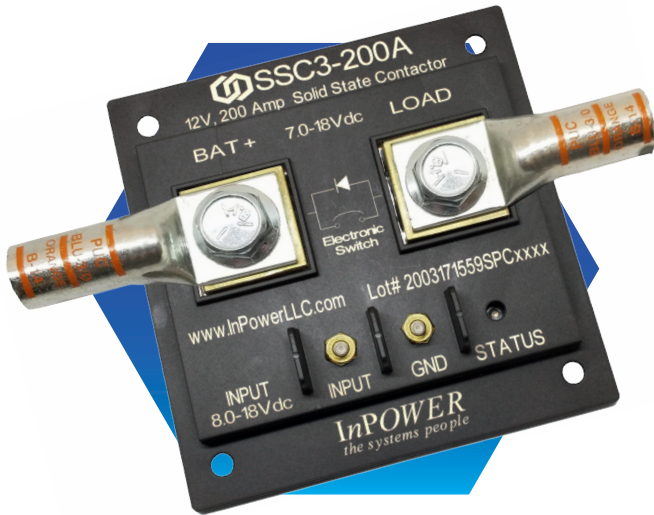


SSC3-200A

Intelligent Programmable Solid State Contactor



Intelligent Solid state DC contactor with over-current shutdown protection offers many advantages over mechanical solenoid contactors

Technical Description

The SSC3 Series is InPower's third generation family of high current solid-state DC contactors. These single channel power switches are available in continuous current ratings of 150 and 200 amps. Low on-resistance solid-state switches and high current fly back diodes provide not only outstanding surge current capability for starting high in-rush current loads but also maximum voltage spike suppression for high inductive loads.

Applications include: high current DC loads such as master battery disconnect switching, blower motors, auxiliary air conditioner units, lights, and hydraulic motors.

Packaging: The solid-state contactors are sealed and packaged in rugged plastic case with an aluminum baseplate. Four corner mounting hole pads provide the mounting points. A Ground Terminal is provided for a positive connection to Battery Ground. Studs with accompanying nuts are provided for a positive connection to the Control Input and Battery Ground..

A **LED Status Indicator** displays a *steady on* when the contactor is on and operating normally, or *flashes* when the contactor has automatically turned off as a result of a detected fault such as loss of ground, over-current, under-voltage or over-temperature. A fault is automatically reset when the control input voltage is removed.

Voltage Hysteresis on the control input ensures high electrical noise immunity. An input control voltage greater than +8 volts will turn the contactor on and a voltage of less than +4 volts will turn the contactor off. The control input appears as 100K-Ohm resistance to ground.

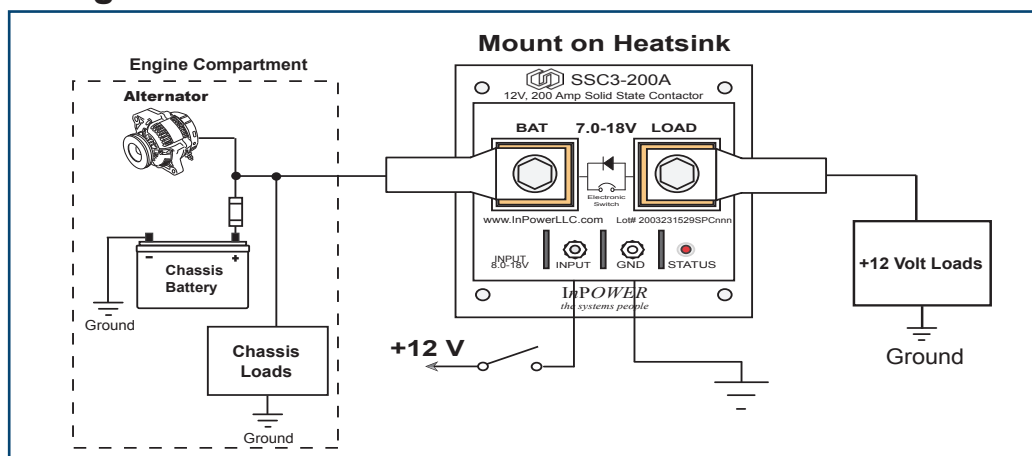
Key Features

- Custom Programmable Features - Contact Inpower
- Sealed Case
- Compact Size, Low Profile, for Easy Install
- Status LED Indicator
- High Efficiency with much Longer Life than Mechanical Contactors (no moving parts or contacts)
- 100 % Solid State Construction
- Automatic Over-Current, Under-Voltage and Over-Temperature Fault Shutdown Protection
- Loss of Ground Detection

Ordering Guide

Model	Description
SSC3-150	Solid-state contactor, 150 Amp
SSC3-200A	Solid-state contactor, 200 Amp

System Diagram

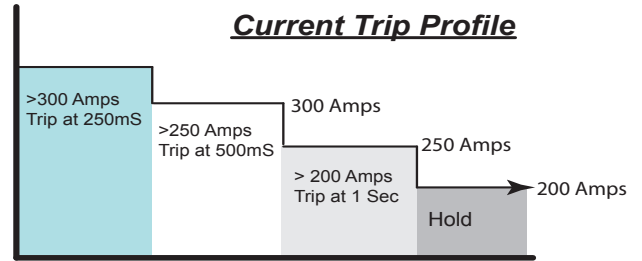


SSC3-200A

Intelligent Programmable Solid State Contactor

Specifications

Current Rating:	200 Amps Continuous Type A Mount
Overcurrent Protection Trip:	See Current Trip Profile figure
Overcurrent Reset:	Module will Reset 30 Sec after Fault
On-resistance at maximum temperature and current:	.1 milliohms 0.75 milliohms
Manual SSC Operation:	
• +12Vdc to INPUT terminal will cause the Module to turn ON and supply power to the load terminal (if BAT Voltage is > 7.0Vdc). If unit is ON then removing +12Vdc again will turn the unit OFF.	
Temperature Range:	-40 to +85 degrees Celsius
Over Temperature Shutdown:	>85 degrees Celsius (+185° F)
Voltage Range:	7.0 to +18.0 Volts
Standby Current:	<3.8mA
Environmental:	Designed to meet IP67
Low Battery Voltage Trip:	+7.25 to +7.50 Vdc for 250 mS
Loss of Ground Trip:	250 milliseconds
Over-Current Trip:	100% to 110% of rated amps for 500 mS
Logic Power Current Draw	
With Status LED Off:	80 milliwatts
With Status LED On:	150 milliwatts
Turn-On Delay:	25 milliseconds
Turn-Off Delay:	25 milliseconds
Control Connection:	8/32 with brass nuts
Control Input Voltage:	>+8.0 Vdc to activate, <+4.0 Vdc to deactivate
Control Input Resistance:	100 K Ohm to ground
BAT+ to LOAD Terminal	
Leakage Current:	75 microamps maximum



Physical Specifications

Power Terminals:	Engineered Brass Bus Bar
Power Terminal Bolts:	Steel Hex Bolt (No Substitutions)
Power Terminal Torque:	10 to 15 ft-lb
Ground/Input Terminals:	8/32 terminals with Brass Nuts (4 to 5 Inch Lbs)
Weight:	0.4 lbs (0.181kg)
Dimensions:	4.00 inches W x 4.00 inches L x 1.20 inches H
Mounting Screws (User Provided):	#8-32 (4 to 5 Inch Pounds)

Mechanical Drawing

