



DATA SHEET: SSS-87W

Solid State Loadswitch:

Description:

The PDC SSS-87 Loadswitch series is a tri-pack, modular, solid state relay designed specifically to meet NEMA specifications, as well as California and New York "Model 200" specifications. Each loadswitch contains 3 individually replaceable modules that are enclosed in a dust resistant, metal enclosure providing mechanical protection and excellent heat sinking for the modules. The modules are easily accessible with the use of a screwdriver. All major current paths on this unit use wires instead of a printed circuit board.

Installation:

The switchpac inter mates with any standard NEMA loadbay or with the model 332 cabinet output file as well as with any NEMA loadbay. It is easily installed or removed by grasping the handle. Connector P1 pin outs are shown in FIG 1. The connector mates with a PDC BCS-12 or equal.

PIN	FUNCTION
1	+115VAC, 60 Hz
2	Chassis Ground
3	A Output (Red, Don't Walk)
4	Not Assigned
5	B Output (Yellow)
6	A Input (Red, Don't Walk)
7	C Output (Green, Walk)
8	B Input (Yellow)
9	+24 VDC
10	C Input (Green, Walk)
11	Not Assigned
12	Not Assigned

P1
(P1 as viewed from the outside of the product looking directly at the connector)

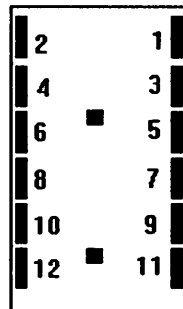


FIG 1.

General Characteristics:

Model	SSS-87 Series
Uses Module #	SSR-83-525 & SSR-87
Meets Specs for Load	Nema, Caltrans, NY (model 200)
	voltage.....120 VAC
	current (max)..... 15.0 Amps (Tungsten Filament Load)
Control Signal	voltage..... +24VDC
	current 20.0 MA (max)
Switching	1st alternation after.....+10 Degrees of line voltage at the zero signal is applied. crossover point.
	Succeeding alterations.....±5 Degrees of line voltage at the zero crossover point.
Off State	dv/dt.....100 V per microsecond
	line to load resistance.....15 K Ohms Min
	leakage current.....less than 20 MA
Isolation	voltage.....2500 VDC Min
	resistance.....10 Meg Ohms Min
Surge Current	one cycle.....175 Amps RMS Min
	one second.....40 Amps RMS Min
Life	operations.....30 million Min
Mechanical	length.....8.40 inches
	width.....1.74 inches
	height.....4.185 inches
	weight.....1.135 LBS

Guarantee: The SSS-87 series is fully guaranteed against all failures due to manufacturing defects for two years.