

Data Sheet: SSS-87WP

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. All replaceable modules are encapsulated in epoxy resin.

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 | P1 |
|-----|----------------------------|--|
| 1 | +115VAC, 60 Hz | (P1 as viewed from the outside of the product looking directly at the connector) |
| 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 | |

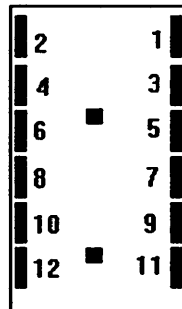


FIG 1.

General Characteristics:

| | |
|-----------------|--|
| Model | SSS-87 Series |
| Uses Module # | SSR-83-525 & SSR-87 |
| Meets Specs for | Nema, Caltrans, NY (model 200) |
| Load | 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.