



DATA SHEET SSR-87

Solid State Relay (Replacement Module)

Description:

The PDC SSR-87 is a Solid State Relay. A photo-triac is the means by which sensitive input signals are isolated from AC circuitry. With the Zero Voltage Switching design, there are no contacts to wear out or deteriorate due to arcing or corrosion. Also, extended life for light bulbs can be expected as well as reduced Radio Frequency Interference (RFI). The cast aluminum heat sink provides for excellent heat dissipation.

General Characteristics:

ModelSSR-87

Load.....3 - 40 amps

Control Signal.....3 - 32 VDC

Switching

1st alternation after.....+/- 10 degrees of line voltage
signal is applied (zero crossover point)

Succeeding alternations.....+/- 5 degrees of line voltage

Off State

DV/DT.....100 volts / microsecond

Line to load resistance.....15k ohms minimum

Leakage current.....<20 ma

Isolation

Voltage.....2500 VDC minimum

Resistance.....10,000 meg ohms minimum

Surge Current (25 Amp device)

One cycle.....175 amps RMS minimum

One second.....40 amps RMS minimum

Life

Operations.....30 million minimum

Options

SSR-87 - Standard cube with cover input voltage signal - 24 VDC

SSR-87P - Standard cube, epoxy encapsulated, input voltage signal - 24 VDC