

Printed Circuit Board Solid State Relay

PCS05



FEATURES

- 5 amp rating @ 30 degrees C
- Industry standard footprint
- 4000 volt dielectric strength
- Will switch up to 440 volts
- Built in snubbers
- Back to back SCR or Triac output
- Solid epoxy encapsulation



Pending

INPUT PARAMETERS

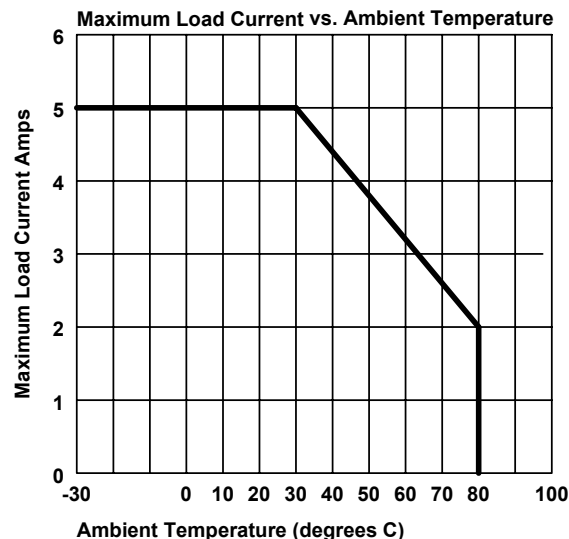
Input	Low Range (L)	High Range (H)
Input Voltage	3 VDC to 15 VDC	15 VDC to 32 VDC
Must Operate Voltage	Max 3 VDC	Max 15 VDC
Must Release Voltage	Min 1.0 VDC	Min 1.0 VDC
Typical Input Current	15 mA DC	15 mA DC

OUTPUT PARAMETERS

Load Voltage Range	48 to 264 VAC for 240 VAC rated relay	
	48 to 440 VAC for 380 VAC rated relay	
Load Current Range	0.1 Amps to 5 Amps	
Max Surge current (10 ms)	250 Amps Peak	
Max off-state leakage current	1.5 milliamps	
Max on-state voltage drop	1.5 Volts	
Maximum Turn-on Time	Zero Crossing	10 milliseconds
	Random	1 millisecond
Maximum turn-off time	10 milliseconds	
Transient overvoltage	600 V for 240 VAC and 800 V for 380 VAC	
Minimum off-state dv/dt	200V / micro second	
Minimum power factor	0.5	

GENERAL PARAMETERS

Dielectric strength (input to output)	4000 Vrms
Insulation Resistance	1000 megohms @ 500VDC
Vibration Resistance	DA 1.5 mm 10 to 50 Hz
Ambient operating temperature	-30 to +80 degrees C
Ambient storage temperature	-30 to +100 degrees C
Ambient humidity	45% to 85%
Weight	15 grams max



ORDERING INFORMATION

Example:	PCS05	L	240	Z	T
Model					
DC Input Range	L: 3 VDC to 15 VDC, H: 15 VDC to 32 VDC				
Load Voltage	240 or 380				
Type of Operation	Z: Zero cross turn on; R: Random turn on				
Output Type	S: SCR, T: Triac				

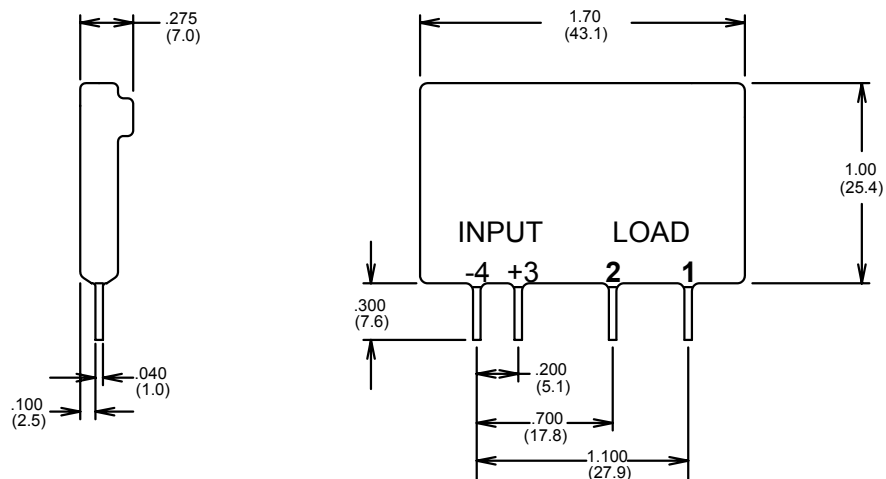
Description

The PCS05 relay is pin for pin compatible with standard OAC type I/O modules.

The PCS05 is available with random turn-on as an alternate to zero-cross turn-on.

The PCS05 SSR offers a choice of 240VAC or 380VAC versions and input ranges of 3 to 15 vDC and 15 to 32 VDC.

All Models include an internal snubber.

Dimensions in Inches (millimeters)**PRECAUTIONS**

1. Soldering must be completed within 10 seconds at 260 degrees C or less or within 5 seconds at 350 degrees C.
2. The SSR case serves to dissipate heat. Install the relays so that they are adequately ventilated. If poor ventilation is unavoidable, reduce the load current.
3. The input circuitry does not incorporate a circuit protecting the SSR from a reversed polarity connection. Confirm that the polarity is correct when connecting the input.

Notes:

Tolerances $\pm$.010 unless otherwise noted



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