



FEATURES

- 3, 4 & 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



E86876

INPUT PARAMETERS

| Input | Low Range (L) | High Range (H) | Wide Range (W) |
|------------------------------|-----------------|------------------|-----------------|
| Input Voltage | 3 VDC to 15 VDC | 15 VDC to 32 VDC | 3 VDC to 32 VDC |
| Must Operate Voltage | Max 3 VDC | Max 15 VDC | Max 3 VDC |
| Must Release Voltage | Min 1.0 VDC | Min 1.0 VDC | Min 1.0 VDC |
| Typical Input Current | 40 mA DC | 15 mA DC | 25 mA DC |

OUTPUT PARAMETERS

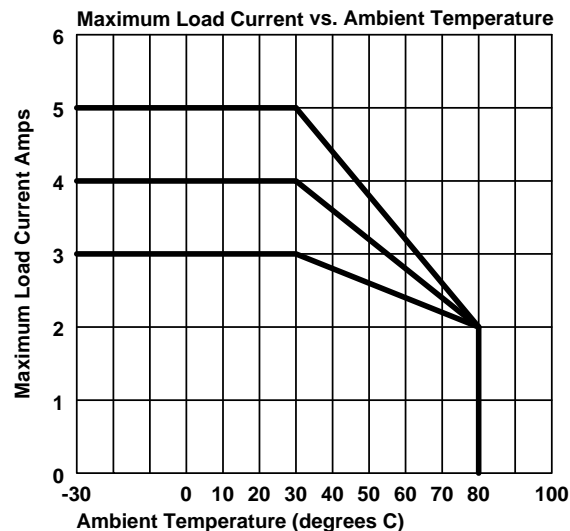
| | |
|--------------------------------------|--|
| Load Voltage Range | 48 to 264 VAC for 240 VAC rated relay 48 to 440 VAC for 380 VAC rated relay |
| Load Current Range | 0.1 Amps to 5 Amps |
| Max Surge current (10 ms) | SCR 250 Amps Peak Triac 120 Amps Peak |
| Max off-state leakage current | 1.5 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 |

ORDERING INFORMATION

| | | | | | | |
|-------------------|---|---|-----|----|---|---|
| Example: | PCS05 | W | 240 | -4 | Z | T |
| Model | | | | | | |
| DC Input Range | L: 3 to 15 VDC, H: 15 to 32 VDC, W: 3 to 32 VDC | | | | | |
| Load Voltage | 240 or 380 | | | | | |
| Load Current | 3, 4 Or 5 amps | | | | | |
| Type of Operation | Z: Zero cross turn on; R: Random turn on | | | | | |
| Output Type | S: SCR, T: Triac | | | | | |

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 |



Description

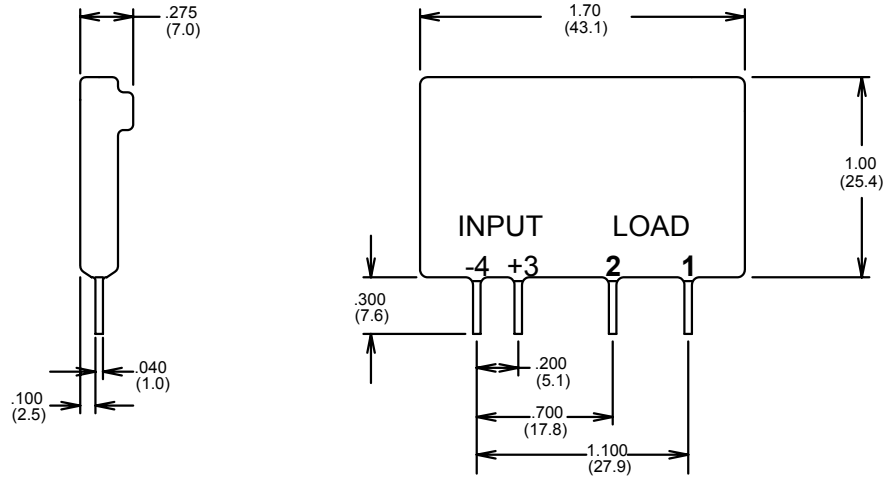
The PCS05 relay is pin for pin compatible with standard OAC type I/O modules.

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.

All Models are RoHS compliant

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**PICKER**
C O M P O N E N T S

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