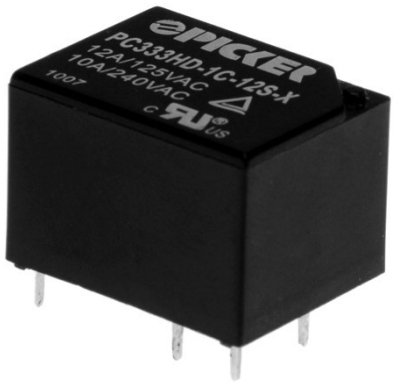
# 12 Amp Subminiature PCB Power Relay — PC333




## FEATURES

- 12 Amp continous contact capacity
- 1 Form A, 1form C contact forms
- 2.5 KV dielectric strength between coil and contacts
- 4 KV dielectric available
- Sensitive coil available
- Meets UL 873 spacing
- Sealed, immersion cleanable
- Lead Free & RoHS Compliant

c UL us File # E86876

R50010256

## UL/CSA RATINGS

| Load Type | All Forms All Contacts |
|---|---|
| General Purpose | 12A @ 125 VAC/28 VDC, 6A @ 300 VAC |
| Resistive | 10A @ 240 VAC |
| Inductive | 1/3 HP @ 120/240 VAC |

## CONTACT DATA

| | | |
|---|---|---|
| Material | | AgCdO (Silver Cadmium Oxide) AgSnO (Silver Tin Oxide) |
| Initial Contact Resistance | | 100 milliohms max @ 0.1A, 6VDC |
| Service Life | Mechanical | 1 X $10^7$ Operations |
| | Electrical | 1 X $10^5$ Operations |

## CHARACTERISTICS

| | |
|---|---|
| Operate Time | 8 ms. Max. |
| Release Time | 4 ms. Max. |
| Insulation Resistance | 1,000 megohms min, at 500VDC, 50%RH |
| Dielectric Strength | 2500 Vrms, 1 min. between coil and contacts<br>4000 Vrms, 1 min. between coil and contacts for PC333HD<br>1000 Vrms, 1 min. between open contacts |
| Shock Resistance | 10 g, 11ms, functional; 100 g, destructive |
| Vibration Resistance | DA 1.5 mm, 10 - 55 Hz |
| Power Consumption | .45 W standard coil, .36 W sensitive coil |
| Ambient Temperature Range | -40 to 85 C, -40 to 130 C storage |
| Weight | 11 grams approx. |

## ORDERING INFORMATION

| Example: | PC333 | -1C | -12 | S | F | -H | -X |
|---|---|---|---|---|---|---|---|
| Model*: | **PC333**, **PC333HD** | | | | | | |
| Contact Form: | **1A, 1C** | | | | | | |
| Coil Voltage: | **3, 5, 6, 9, 12, 15, 18, 24, 48** | | | | | | |
| Enclosure: | **S**: Sealed; **C**: Flux Free | | | | | | |
| Insulation System: | **Nil**: Class B (125° C), **F**: Class F (155° C) | | | | | | |
| Coil Sensitivity: | **Nil**: Standard .45 W, **H**: Sensitive .36 W | | | | | | |
| RoHS Compliant: | **-X** | | | | | | |

***HD**= (high dielectric)

Box Quantity: 2,000; Inner Box: 1,000

PICKER COMPONENTS
3220 Commander Drive, Suite 102 Carrollton, TX 75006
Sales: (972) 713-6272 (888) 997-3933 Fax: (972)735-0964
www.PickerComponents.com
e-mail: sales@pickercomponents.com

Dimensions are listed for reference purposes only.

Specifications and Availability subject to change without notice.

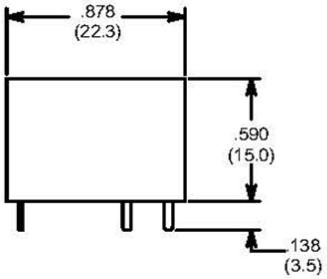
## COIL DATA

| Coil Voltage | Resistance Ohms ± 10% | | | | Must Operate Voltage Max. ( VDC ) | Must Release Voltage Min. ( VDC ) |
|---|---|---|---|---|---|---|
| | Standard Coil | | Sensitive Coil | | | |
| 3 | 20 | 0.45W | 25 | 0.33W | 2.3 | 0.3 |
| 5 | 56 | | 69 | | 3.8 | 0.5 |
| 6 | 80 | | 100 | | 4.5 | 0.6 |
| 9 | 180 | | 225 | | 6.8 | 0.9 |
| 12 | 320 | | 400 | | 9.0 | 1.2 |
| 15 | 500 | | - | | 11.3 | 1.5 |
| 18 | 720 | | 900 | | 13.5 | 1.8 |
| 24 | 1280 | | 1800 | | 18.0 | 2.4 |
| 48 | 3800 | | - | | 36.0 | 4.8 |

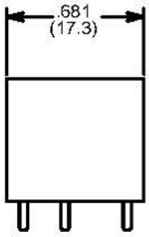
Dimensions In Inches ( millimeters )

### PC333

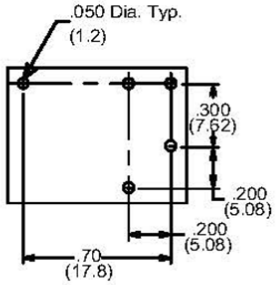
**Side View**



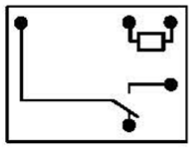

**End View**




**Bottom View PC Board Layout**

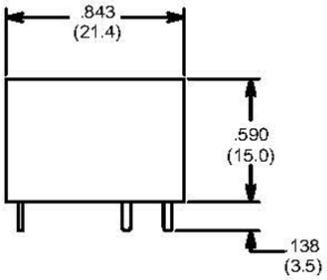



**Wiring Diagram**

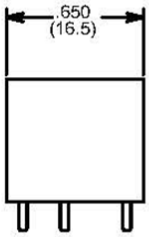


### PC333HD

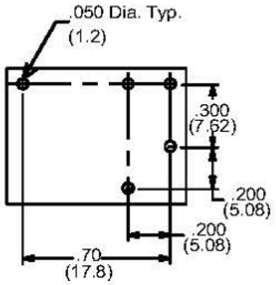
**Side View**




**End View**




**Bottom View PC Board Layout**

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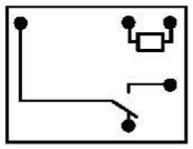

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