



# PCI series

## Slim 2 Form A Miniature PC Board Relay

Appliances, Audio Equipment, Office Machines

UL File No. E82292

CSA File No. LR48471

### Features

- Slim and simple architecture.
- 2 Form A (DPST-NO) contact arrangement.
- Cadmium-free contacts.
- UL, CSA, approvals.
- Immersion cleanable, sealed version available.
- Magnetic blow-out available for DC loads.

### Contact Data @ 20°C

**Arrangements:** 2 Form A (DPST-NO).

**Material:** Ag-GS Alloy.

**Max. Switching Rate:** 300ops./ min. (no load).  
30ops./ min. (rated load).

**Expected Mechanical Life:** 1 million ops (no load).

**Expected Electrical Life:** 100,000 ops (rated load).

**Minimum Load:** 1mA @ 1VDC.

**Initial Contact Resistance:** 50 milliohms @ 1mA, 6VDC.

### Coil Data @ 20°C

PCI				
Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance (ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)
3	115.4	26	2.10	0.30
5	69.4	72	3.50	0.50
6	58.8	102	4.20	0.60
9	39.1	230	6.30	0.90
12	29.1	413	8.40	1.20
24	14.5	1,650	16.80	2.40

### Contact Ratings

**Ratings:** 3A @ 24VDC resistive.

3A @ 120VAC resistive.

**Max. Switched Voltage:** AC: 240V.  
DC: 50V.

**Max. Switched Current:** 5A.

**Max. Switched Power:** 300VA, 90W.

### Initial Dielectric Strength

**Between Open Contacts:** 1,000VAC, 50/60 Hz. (1 min.).

**Between Adjacent Contacts:** 2,000VAC, 50/60 Hz (1 min).

**Between Contacts and Coil:** 4,000VAC, 50/60 Hz. (1 min.).

**Surge Voltage Between Coil and Contacts:** 7,000V (1.2/50µs).

### Initial Insulation Resistance

**Between Mutually Insulated Conductors:** 1,000Mohm @ 500VDCM.

### Coil Data

**Voltage:** 3 to 24VDC.

**Duty Cycle:** Continuous.

**Nominal Power:** 350mW.

**Max. Coil Power:** 130% of nominal at 20°C.

### Operate Data @ 20°C

**Must Operate Voltage:** 70% of nominal voltage or less.

**Must Release Voltage:** 10% of nominal voltage or more.

**Operate Time :** 15ms max.

**Release Time :** 5ms max.

### Environmental Data

**Temperature Range:**

**Operating:** -30°C to +70°C.

**Vibration, Mechanical:** 10 to 55Hz., 1.5mm double amplitude.

**Operational:** 10 to 55Hz., 1.5mm double amplitude.

**Shock, Mechanical:** 1,000m/s<sup>2</sup> (100G approximately).

**Operational:** 100m/s<sup>2</sup> (10G approximately).

**Operating Humidity:** 20 to 85% RH. (Non-condensing).

### Mechanical Data

**Termination:** Printed circuit terminals.

**Enclosure:** Plastic sealed case with enclosure option "H".

Otherwise, vented (flux-tight) cover.

**Weight:** 0.41 oz (10.5g) approximately.

Ordering Information

Typical Part Number ▶

PCI

-2

05

D

M

1. Basic Series:

PCI = Miniature relay

2. Termination:

2 = 2 pole

3. Coil Voltage:

03 = 3VDC    06 = 6VDC    12 = 12VDC  
05 = 5VDC    09 = 9VDC    24 = 24VDC

4. Coil Input:

D = Standard

5. Contact Arrangement:

M = 2 Form A

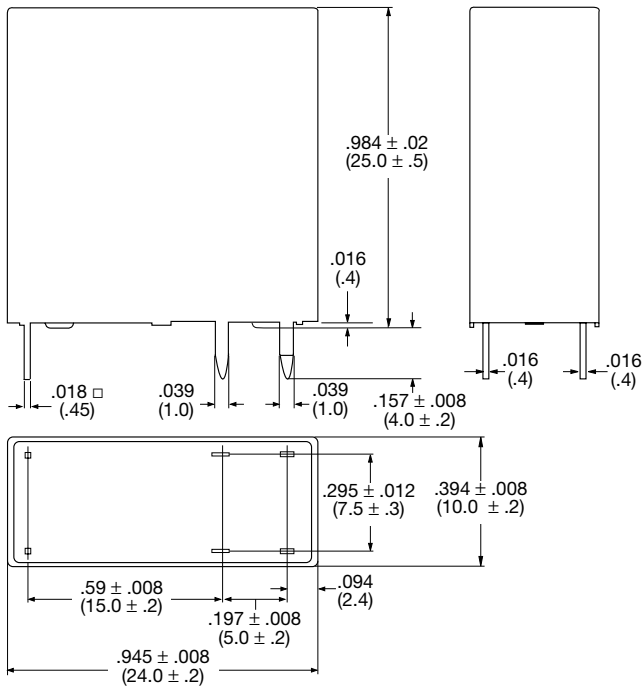
6. Enclosure:

Blank = Vented (Flux-tight) cover    H = Sealed plastic case

7. Optional:

Blank = Standard    M = with magnetic blow-out

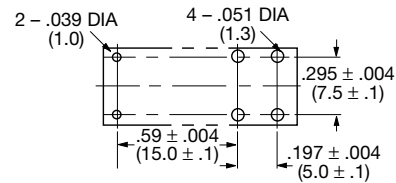
Outline Dimensions



Wiring Diagram (Bottom View)

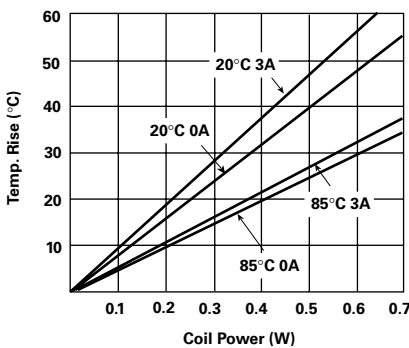


PC Board Layout (Bottom View)

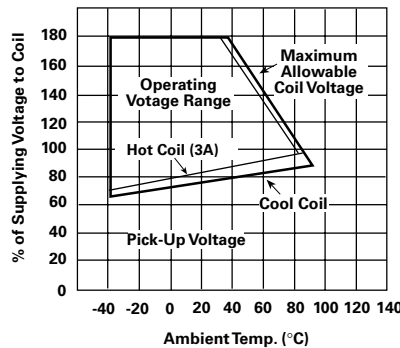


Reference Data

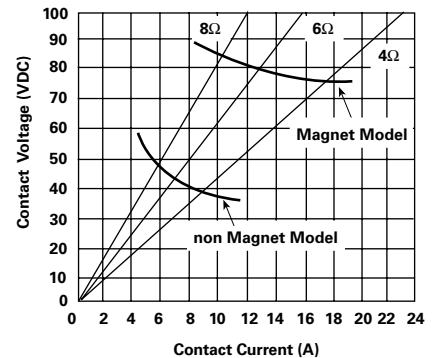
Coil Temperature Rise



Operating Voltage



DC Cut Ability for Audio Speaker Loads



Note: This data is based on the max. allowable temperature for E type insulation coil (115°C).