



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.

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.

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

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/s² (100G approximately).

Operational: 100m/s² (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

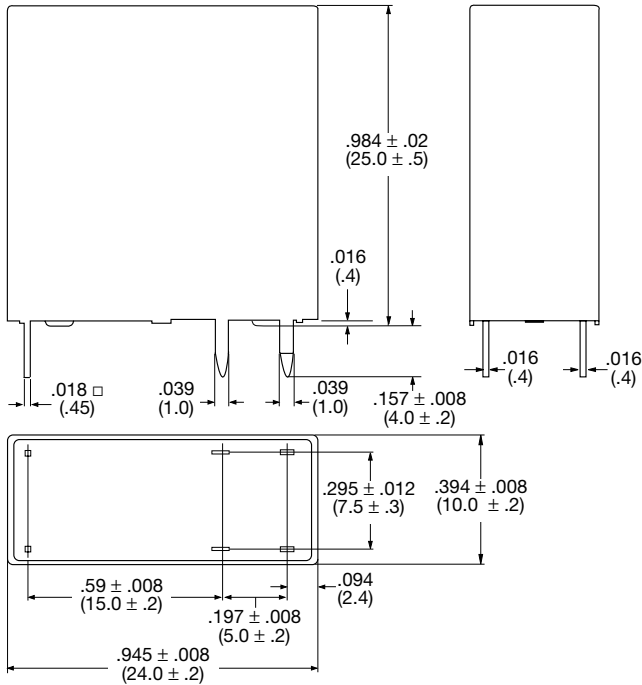
6. Enclosure:

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

7. Optional:

Blank = Standard M = with magnetic blow-out

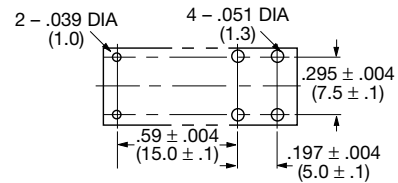
Outline Dimensions



Wiring Diagram (Bottom View)

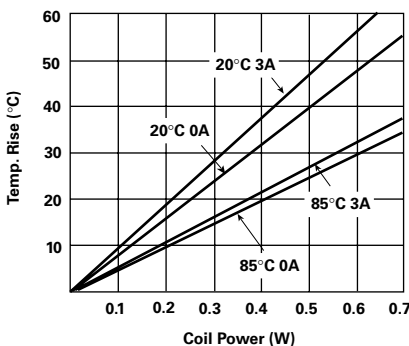


PC Board Layout (Bottom View)

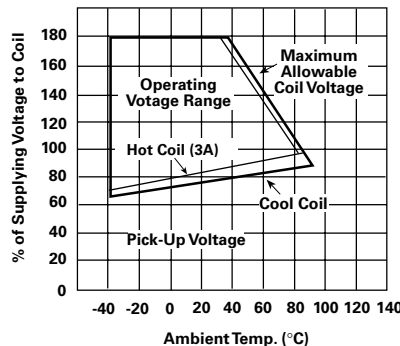


Reference Data

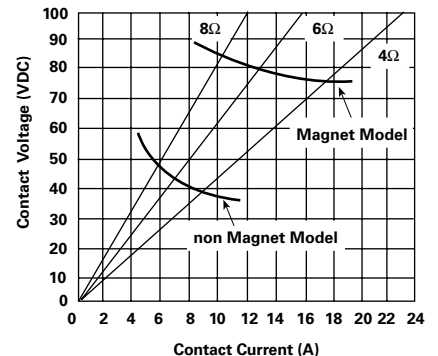
Coil Temperature Rise



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).