



Features

- 1 Form C, 5A relay.
- Compact size 20L x 10W x 15.2H (mm).
- High surge voltage of 8000V.
- Cadmium-free contacts.
- UL, CSA, VDE approval.

Contact Data @ 20°C

Arrangements: 1 Form C (SPDT).

Material: AgSnO.

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

20ops./ min. (rated load). Expected Mechanical Life: 5 million ops (no load).

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

Minimum Load: 100mA @ 5VDC

Initial Contact Resistance: 100 milliohms @ 1A, 6VDC.

Contact Ratings

Ratings(NO/NC): 5A/3A @ 30VDC resistive. 5A/3A @ 277VAC resistive.

Max. Switched Voltage: AC: 277V. DC: 30V. Max. Switched Current: 5A (NO) / 3A(NC). Max. Switched Power: 1385VA, 150W.

Initial Dielectric Strength

Between Open Contacts: 750VAC, 50/60 Hz. (1 min.). Between Contacts and Coil: 4,000VAC, 50/60 Hz. (1 min.). Surge Voltage Between Coil and Contacts: 8,000V (1.2/50 μ s).

Initial Insulation Resistance

Between Mutually Insulated Conductors: 1000Mohm @ 500VDCM.

Coil Data

Voltage: 3 to 48VDC. Duty Cycle: Continuous. Nominal Power: 400mW.

Max. Coil Power: 130% of nominal.

PCH series

5 Amp Miniature 1 Form C **Power PC Board Relay**

Air Conditioners, Refrigerators, Microwave Ovens

FLI UL File No. E82292

© CSA File No. LR48471 VDE VDE File No. 119568

Coil Data @ 20°C

| PCH | | | | |
|--------------------------------|----------------------------|------------------------------------|----------------------------------|----------------------------------|
| Rated Coil Voltage (VDC) | Nominal Current (mA) | Coil Resistance (ohms) ± 10% | Must Operate Voltage (VDC) | Must Release Voltage (VDC) |
| 3 | 133.3 | 22.5 | 2.25 | 0.15 |
| 5 | 80.0 | 62.5 | 3.75 | 0.25 |
| 6 | 66.7 | 90.0 | 4.50 | 0.30 |
| 9 | 44.4 | 202.5 | 6.75 | 0.45 |
| 12 | 33.3 | 360.0 | 9.00 | 0.60 |
| 18 | 22.2 | 810.0 | 13.50 | 0.90 |
| 24 | 11.1 | 1,440.0 | 18.00 | 1.20 |
| 48 | 5.6 | 5,760.0 | 36.00 | 2.40 |

Operate Data @ 20°C

Must Operate Voltage: 75% of nominal voltage or less. Must Release Voltage: 5% of nominal voltage or more.

Operate Time: 10ms 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).

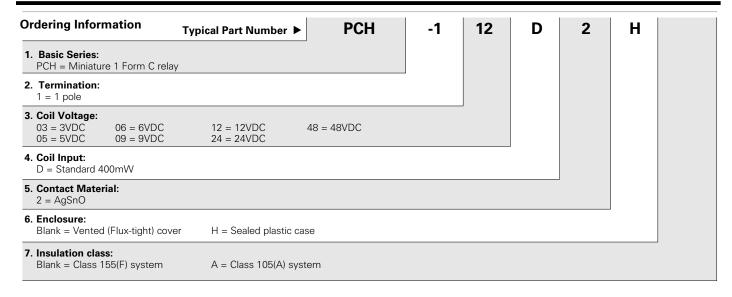
Operational: 100m/s² (10G approximately).

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

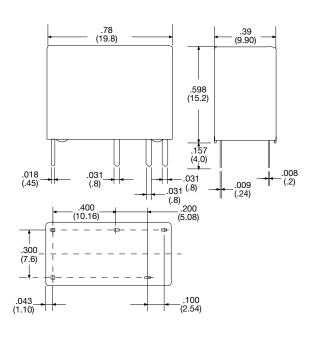
Mechanical Data

Termination: Printed circuit terminals. Weight: 0.25 oz (7g) approximately.

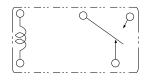




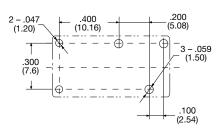
Outline Dimensions



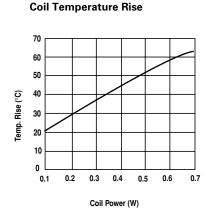
Wiring Diagram (Bottom View)



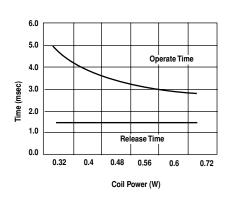
PC Board Layout (Bottom View)



Reference Data



Operate Time



Life Expectancy

