

Features

- 1 Form A (SPST-NO) or 1 Form C (SPDT) contact arrangements
- 5 or 10A ratings.
- Compact size 20L x 10W x 15.2H (mm).
- High surge voltage of 8000V.
- · Cadmium-free contacts
- Sensitive (200mW) coil available on 1 Form A types.
- · UL, CSA, VDE approval.

Contact Data @ 20°C

Arrangements: 1 Form A (SPST-NO) and 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: Models with 1 Form C Contacts, 400mW Coil

5A (NO) /3A (NC) @ 30VDC resistive. 5A (NO) /3A (NC) @ 277VAC resistive. 10A (NO) @ 125VAC resistive.

TV-3 (NO).

Models with 1 Form A Contacts, 400mW Coil

5A @ 277VAC/30VDC resistive. 10A @ 125VAC resistive.

TV-3.

Models with 1 Form A Contacts, 200mW Coil

5A @ 277VAC/30VDC resistive. 10A @ 125VAC resistive.

Max. Switched Voltage: AC: 277V DC: 30V.

Max. Switched Current: 10A (NO) / 3A(NC)

Max. Switched Power: 1400VA, 150W (NO); 850VA, 90W (NC).

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 (1.2/50µs).

Initial Insulation Resistance

Between Mutually Insulated Conductors: 1000Mohm @ 500VDCM.

Coil Data

Voltage: 5 to 48VDC. Duty Cycle: Continuous.

Nominal Power: 200mW or 400mW. Max. Coil Power: 130% of nominal.

PCH series

5 - 10 Amp Miniature 1 Form A or C **Power PC Board Relay**

Air Conditioners, Refrigerators, Microwave Ovens

A UL File No. E82292

(VDE) VDE File No. 119568

Catalog 1308242

Issued 3-03

S CSA File No. LR48471

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.

Coil Data @ 20°C

200mW Coils (Only available with 1 Form A contact arrangements)					
Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance (ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)	
5	40.0	125	3.75	0.25	
6	30.0	180	4.50	0.30	
9	22.5	400	6.75	0.45	
12	16.7	720	9.00	0.60	
24	8.6	2,800	18.00	1.20	

400mW Coils						
Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance (ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)		
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: Models with Class F insulation: -30°C to +85°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.

Catalog 1308242 Issued 3-03



,001

Ordering Information

Typical Part Number ▶

PCH

12

-1

2

D

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1. Basic Series:

PCH = Miniature 1 Form C relay

2. Termination:

1 = 1 pole

3. Coil Voltage:

05 = 5VDC 09 = 9VDC 06 = 6VDC 12 = 12VDC 24 = 24VDC 48 = 48VDC

4. Coil Input:

D = Standard 400mW

L = Sensitive 200mW (Only available with 1 Form A contacts)

5. Contact Material:

2 = AgSnO

6. Contact Arrangement:

Blank = 1 Form C (Only available with Standard 400mW coil)

M = 1 Form A

7. Enclosure

Blank = Vented (Flux-tight) cover

H = Sealed plastic case

8. Insulation class:

Blank = Class 155(F) system

9. Option:

,001 = Standard model

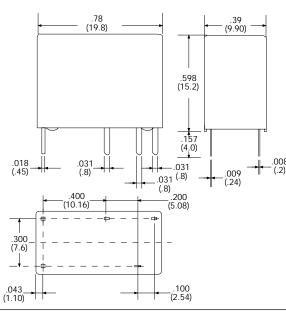
Other Suffix = Special options

Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

PCH-105D2H,001 PCH-124D2H,001

PCH-112D2H,001

Outline Dimensions

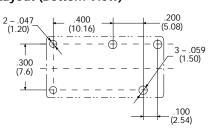


Wiring Diagram (Bottom View)



NOTE: Only necessary terminals are present on 1 Form A models.

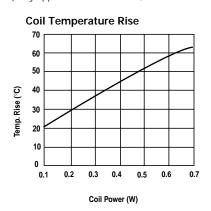
PC Board Layout (Bottom View)

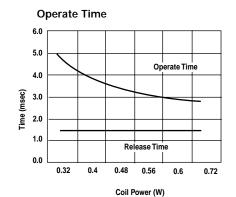


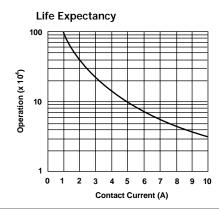
NOTE: Only necessary terminals are present on 1 Form A models.

Reference Data (Typical Values)

(Only applicable for 1 Form C, 400mW coil model with 277VAC load on NO)







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6031007G 6131406HQ 6-1393099-3 6-1393099-8 6-1393122-4 6-1393123-2 6-1393767-1 6-1393843-7 6-1415012-1 6-1419102-2 6-
1423698-4 6-1608051-6 6-1608067-0 6-1616170-6 6-1616248-2 6-1616282-3 6-1616348-2 6-1616350-1 6-1616350-8 6-1616358-7 6-
1616359-9 6-1616360-9 6-1616931-6 6-1617039-1 6-1617052-1 6-1617090-2 6-1617090-5 6-1617347-5 6-1617353-3 6-1617801-8 6-
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