



Features

- Low cost, small size, 3A, 5A, 10A and 15A switching capacity.
- Meets UL and CSA requirements.
- 1 pole, 2 poles and 4 poles contact arrangements.
- AC and DC coils.
- Plug-in terminals or PCB terminals.

Contact Data @ 20°C

Arrangements: 1 Form A (SPST-NO), 1 Form C (SPDT),

2 Form A (DPST-NO), 2 Form C (DPDT), 4 Form A (4PST-NO), 4 Form C (4PDT).

Material: Ag, Ag Alloy.

Max.Switching Rate: 300ops./min.(Mechanical).

30ops./min.(Electrical).

Expected Mechanical Life: 100 million operations (no load). **Expected Electrical Life:** 100,000 operations (rated load).

Minimum Load: 100mA @ 5VDC.

Initial Contact Resistance: 50milliohms @ DC6V,1A.

Contact Ratings

Ratings: PCL-4 3A @ AC250V/DC24V resistive.

PCL-2 5A @ AC250V/DC24V resistive.
PCLH-2 15A@AC240V resistive.
10A @ AC250V/DC24V resistive.

PCLH-1 15A @ AC250V/DC24V resistive.

Max. Switched Current: PCL-4 3A.

PCL-2 5A. PCLH-2 15A. PCLH-1 15A.

Max. Switched Power: PCL-4 660VA, 72W.

PCL-2 1,100VA, 120W. PCLH-2 3,168VA, 240W. PCLH-1 3,300VA, 360W.

Initial Dielectric Strength

Between Open Contacts: 1,000VAC 1minute.

Between Adjacent Contact Terminals: 1,500VAC 1minute.

Between Contacts and Coil: 2,000VAC 1minute. Surge Voltage (Coil-Contact): $3,000V(1.2/50\mu s)$.

Initial Insulation Resistance

Between Open Contacts: 1,000 Mohms @ 500 VDC.

Between Adjacent Contact Terminals: 1,000Mohms @ 500VDC.

Between Contacts and Coil: 1,000Mohms @ 500VDC.

Coil Data

Voltage: AC 6 - 240V.

DC 6 - 110V.

Nominal Power: AC abt. 1.4VA/1.2VA (50Hz/60Hz).

DC abt. 0.9W.

Coil Temperature Rise: AC 60°C max. DC 50°C max. Max. Coil Power: 110% of nominal voltage.

PCL series

3A, 5A, 10A, 15A General Purpose Miniature Relay

Factory Automation, Process Controls, Electrical Panels, etc.

Coil Data@ 20°C

PCL AC Coil					
Rated Coil Voltage (VAC)	Coil Resistance (ohms)±10%	Must Operate Voltage (VAC)	Must Release Voltage (VAC)	Nominal Coil Power (VA)	
6 12 24 48 100 110/120 200 220/240	10 40 160 600 2,800 3,400 11,000 13,600	80% max.	30% min.	abt. 1.4	

PCL DC Coil

Rated Coil Voltage (VAC)	Coil Resistance (ohms)±10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)	Nominal Coil Power (W)
6 12 24	40 160 650	80% max.	10% min.	abt. 0.9
48 100/110	2,600 11,000			abt. 1.1

Operate Data @ 20°C

Must Operate Voltage: AC 80% of nominal voltage or less.

Must Release Voltage: DC 80% of nominal voltage or less.

AC 30% of nominal voltage or more.

DC 10% of nominal voltage or more.

Operate Time: AC 20ms max.

DC 15ms max. **Release Time:** AC 20ms max.

DC 8ms max.

Environmental Data

Temperature Range:

Operating: -10°C to +55°C.

Humidity: 45 to 85%. (Non-condensing). **Vibration, Operational:** 10 to 55Hz 1.0mm double amplitude.

Mechanical: 10 to 55Hz 1.0mm double amplitude.

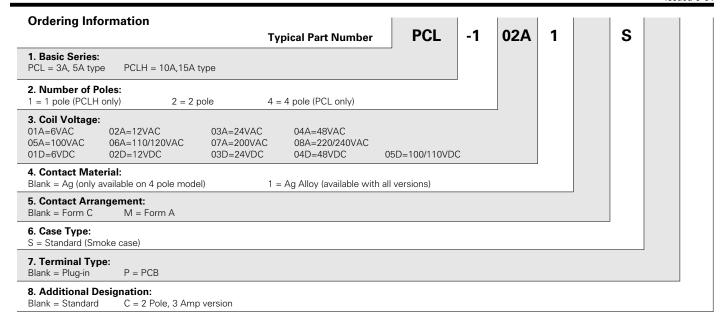
Shock, Operational: 100m/s² (abt. 10G).
Mechanical: 1,000m/s² (abt. 100G).

Mechanical Data

Termination: Plug-in, PCB. **Enclosure:** Snap-on cover.

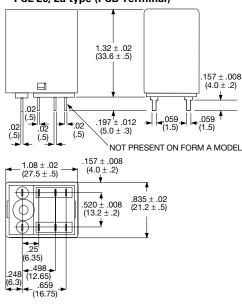
Weight: 1.26 oz (32g) approximately.



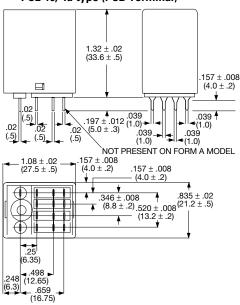


Outline Dimensions

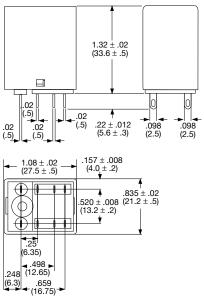
PCL 2c, 2a type (PCB Terminal)



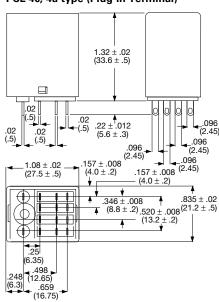
PCL 4c, 4a type (PCB Terminal)



PCL 2c, 2a type (Plug-in Terminal)

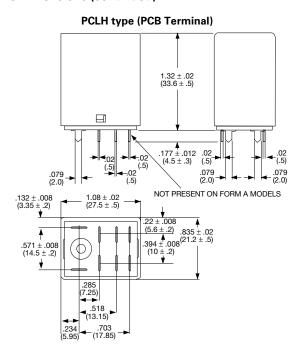


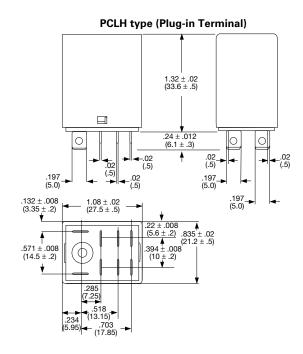
PCL 4c, 4a type (Plug-in Terminal)





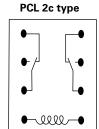
Outline Dimensions (continued)

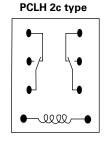


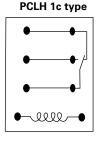


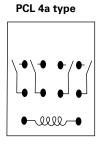
Wiring Diagrams (Bottom Views)

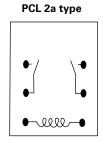
PCL 4c type

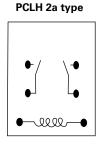


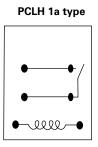




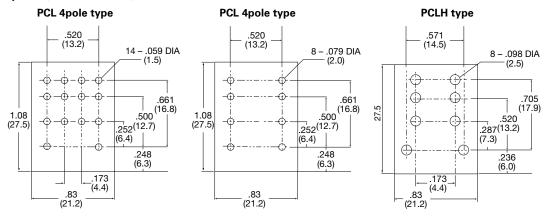








PC Board Layouts (Bottom Views)





Reference Data

