



PCL/PCLH series

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

Factory Automation, Process Controls,
Electrical Panels, etc.

UL File No. E58304

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.

Features

- 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 with UL Class F (155°C) coil insulation system standard.
- Optional flange mount case.
- 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 @ AC120V 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(1.2/50μs).

Initial Insulation Resistance

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

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.

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

Operate Data @ 20°C

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

DC 80% of nominal voltage or less.

Must Release Voltage: 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.

Ordering Information

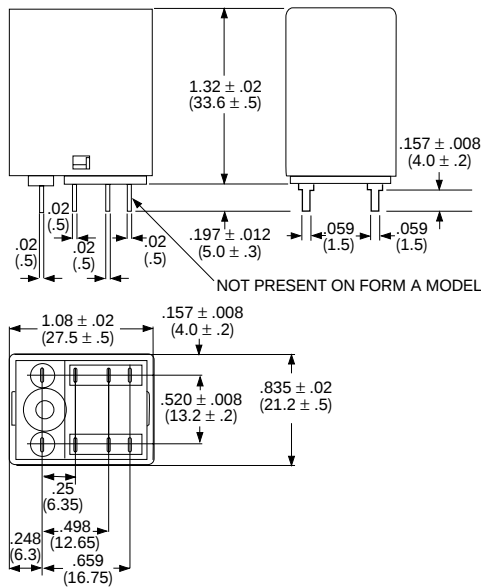
Typical Part Number		PCL	-2	02A	1	S	,000
1. Basic Series: PCL = 3A, 5A type PCLH = 10A,15A type							
2. Number of Poles: 1 = 1 pole (PCLH only) 2 = 2 pole 4 = 4 pole (PCL only)							
3. Coil Voltage: 01A=6VAC 02A=12VAC 03A=24VAC 04A=48VAC 05A=100VAC 06A=110/120VAC 07A=200VAC 08A=220/240VAC 01D=6VDC 02D=12VDC 03D=24VDC 04D=48VDC 05D=100/110VDC							
4. Contact Material: Blank = Ag (only available on 4 pole model) 1 = Ag Alloy (available with all versions)							
5. Contact Arrangement: Blank = Form C M = Form A							
6. Case Type: S = Standard (Smoke color) F = Flange mount (Smoke color)							
7. Terminal Type: Blank = Plug-in P = PCB							
8. Indicator Lamp: Blank = None L = Indicator Lamp							
9. Option: ,000 = Standard model Other suffix = Custom model.							

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

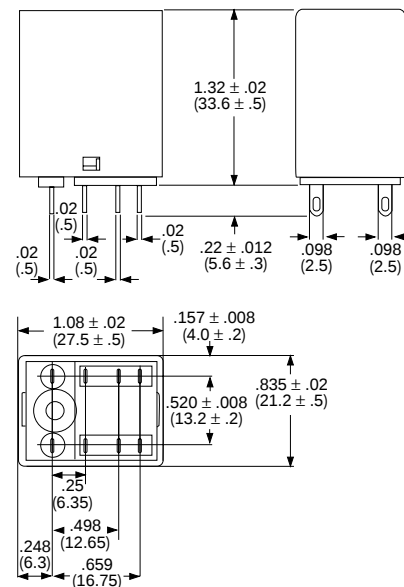
PCLH-202A1S,000
PCLH-203A1S,000
PCLH-206A1S,000
PCLH-208A1S,000
PCLH-202D1S,000
PCLH-203D1S,000
PCLH-204D1S,000
PCLH-205D1S,000
PCLH-206A1SP,000
PCLH-202D1SP,000
PCLH-203D1SP,000
PCLH-205D1SP,000

Outline Dimensions

PCL 2c, 2a type (PCB Terminal)

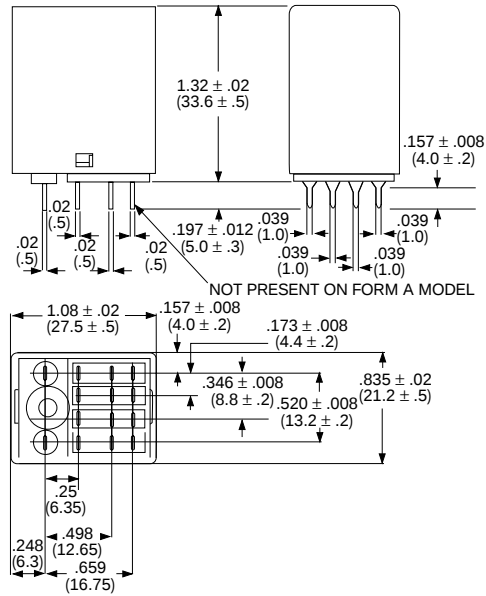


PCL 2c, 2a type (Plug-in Terminal)

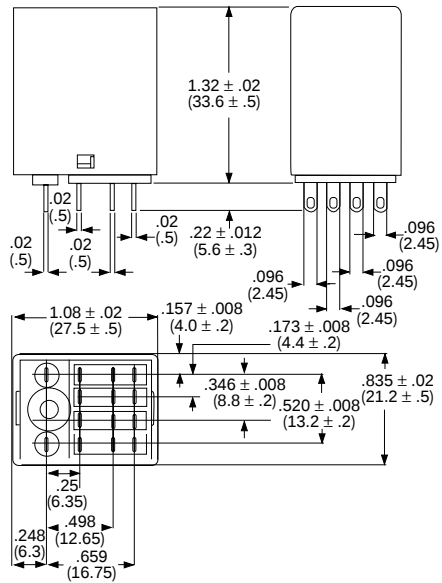


Outline Dimensions (continued)

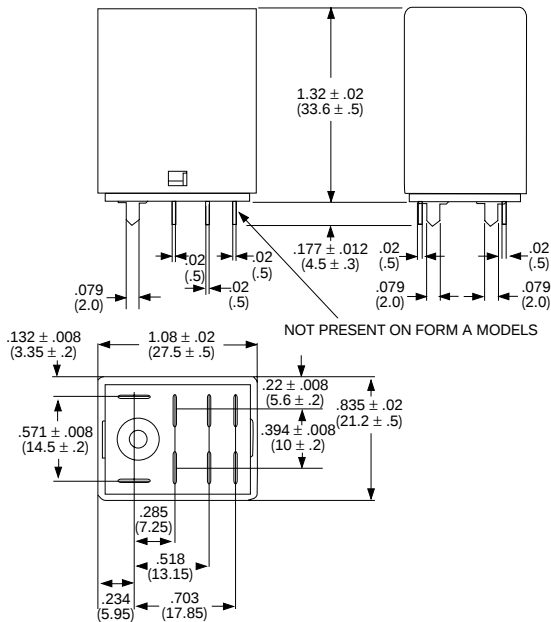
PCL 4c, 4a type (PCB Terminal)



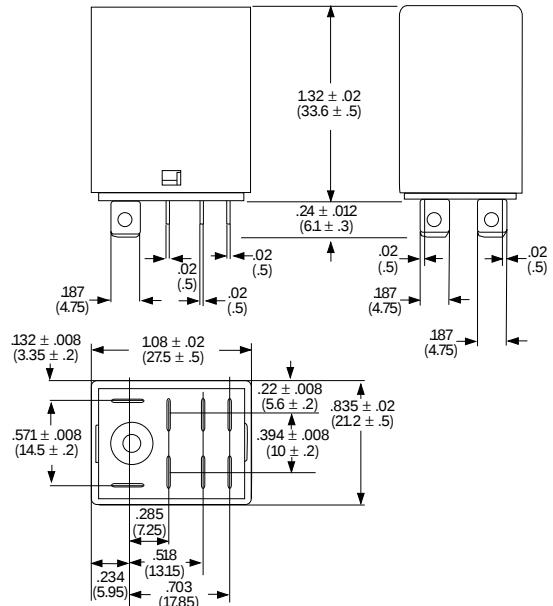
PCL 4c, 4a type (Plug-in Terminal)



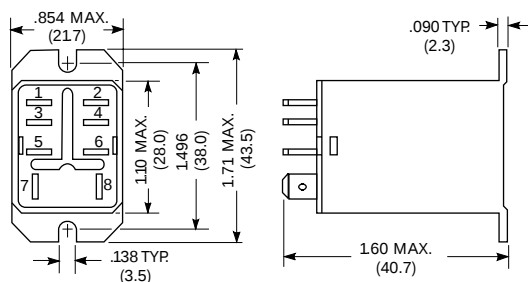
PCLH type (PCB Terminal)



PCLH type (Plug-in Terminal)



PCLH type (Flange Mount Case)



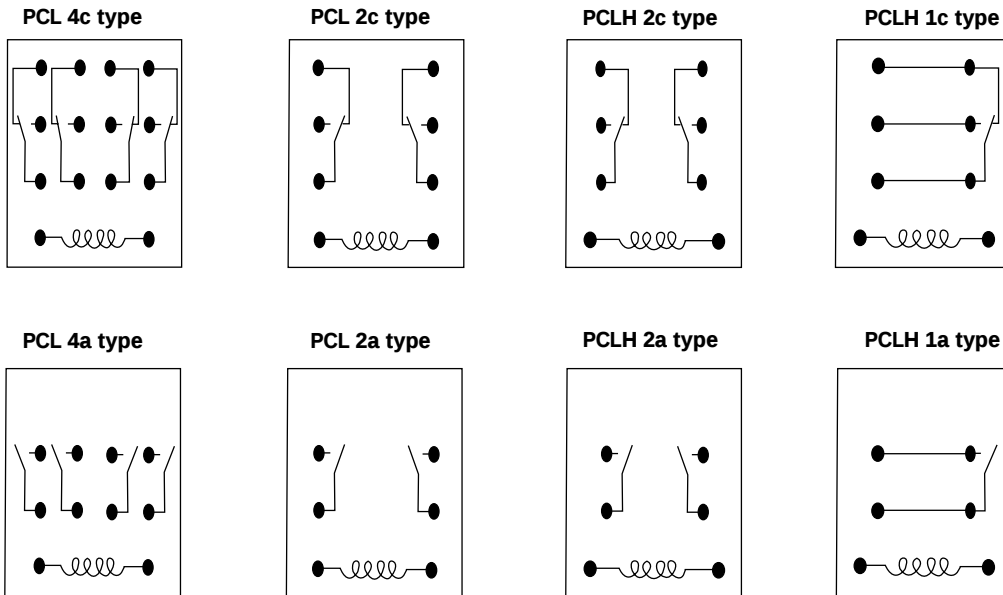
Dimensions are shown for reference purposes only.

Dimensions are in inches over (millimeters) unless otherwise specified.

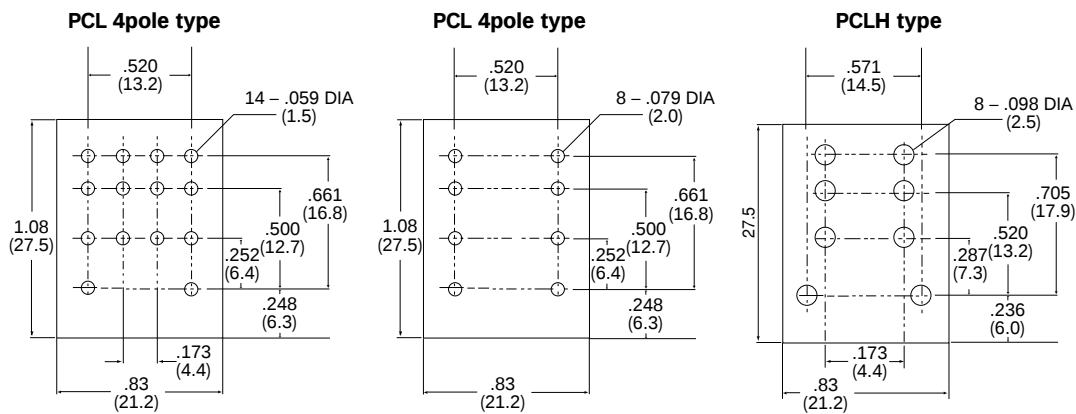
Specifications and availability
subject to change.

www.tycoelectronics.com
Technical support:
Refer to inside back cover.

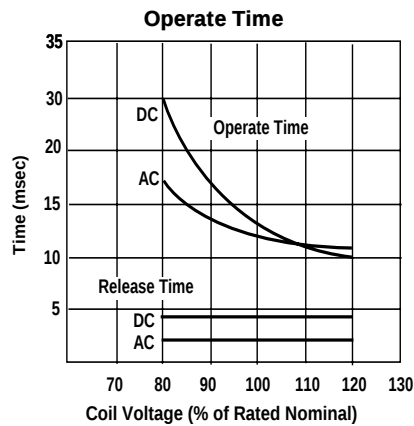
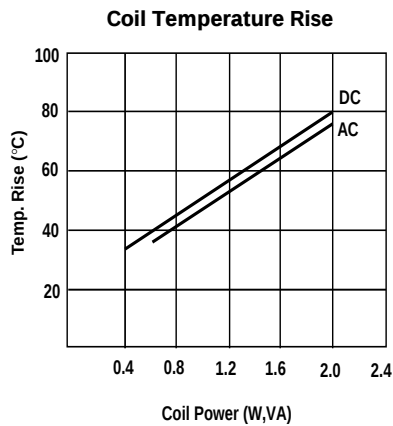
Wiring Diagrams (Bottom Views)



PC Board Layouts (Bottom Views)



Reference Data



Sockets

For PCL socket information refer to KH series sockets (page 712).
For PCLH socket information refer to K10 series sockets (page 722).



**Стандарт
Электрон
Связь**

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