

V23092 series



6 Amp Slim Miniature, PC Board Relay



Features

- 1 Form A (SPST-NO) and 1 Form C (SPDT).
- 6 A rated current.
- Slim package : 5mm width.
- Sensitive coil 170mW.
- 10.6mm height.
- 4kV coil-to-contact insulation.
- Applications: PLCs, timers, temperature controllers, I/O modules.

Contact Data @ 20°C

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

Material: AgSnO and AgSnO with gold plated.

Max. Switching Rate: 1,200 ops./min. (no load).
6 ops./min. (rated load).

Expected Electrical Life:

6A @ 250VAC resistive.

Initial Contact Resistance: 100 milli ohms @ 1A, 24VDC.

Max. Switched Voltage: AC: 400V.
DC: 300V.

Max. Switched Current: 6A.

Max. Switched Power: 1,500VA.

Initial Dielectric Strength

Between Open Contacts: 1,000VAC, (1 minute).

Between Contacts and Coil: 4,000VAC, (1 minute).

Surge Voltage Between Coil and Contacts: 6,000VAC (1.2/50µs).

Creepage/Clearance Coil-to-Contact: Min. 6/8mm.

Initial Insulation Resistance

Between Mutually Insulated Conductors: 1,000Mohm @ 500VDC.

Environmental Data

Temperature Range:

Operating: -40°C to +85°C.

Operating Humidity: 20 to 85% RH.

Mechanical Data

Termination: Printed circuit terminals.

Enclosure (94V-0 Flammability Ratings): Plastic sealed case.

Weight: 6g approximately.

Ordering Information

Typical Part Number ▶ **V23092 A 1 024 A301**

1. Basic Series:

V23092 = Slim PC board relay.

2. Termination:

A = PC Board Terminal.

3. Enclosure:

1 = Plastic sealed case.

4. Coil Input:

005 = 5VDC 012 = 12VDC 48 = 48VDC
006 = 6VDC 024 = 24VDC

5. Contact Material:

A201 = AgSnO with Gold plated, 1 Form C (SPDT).
A202 = AgSnO with Gold plated, 1 Form A (SPST-NO).
A301 = AgSnO, 1 Form C (SPDT).
A302 = AgSnO, 1 Form A (SPST-NO).

Coil Data @ 20°C

Voltage: 5 to 48VDC.

Nominal Power: 170 mW.

V23092				
Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance (ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)
5	33.8	148	3.50	0.50
12	14.2	848	8.40	1.20
24	7.1	3,390	16.80	2.40
48	4.5	10,600	33.60	4.80

Operate Data @ 20°C

Must Operate Voltage: 70% of nominal voltage or less.

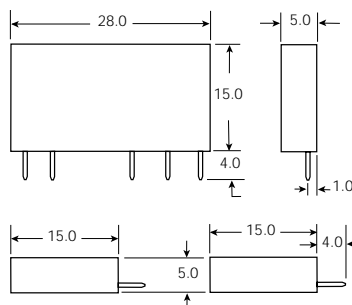
Must Release Voltage: 10% of nominal voltage or more.

Operate Time: 5 ms max. at nominal voltage.

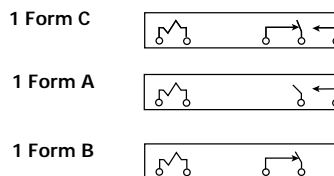
Release Time: 2.5 ms max. at nominal voltage.

Bounce Time: 1 ms (N/O) typical at nominal voltage.
5 ms (N/C) typical at nominal voltage.

Outline Dimensions



Wiring Diagrams (Bottom View)



PC Board Layouts (Bottom View)

