

# 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.

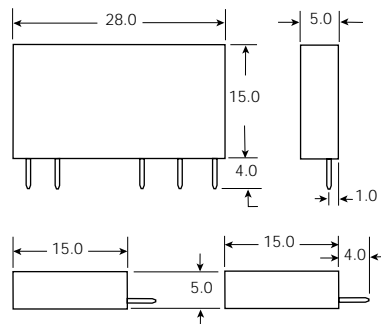
**Operate Time:** 5 ms max. at nominal voltage.

**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)

1 Form C



1 Form A



1 Form B



### PC Board Layouts (Bottom View)

