

#### **Features**

• 1 Form A (SPST-NO) and 1 Form C (SPDT)

6 A rated current.

• Slim package : 5mm width.

Sensitive coil 170mW.

· 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: Silver tin oxide, silver tin oxide with gold plating; and silver nickel 90/10.

Max. Switching Rate: 12,000 ops./min. (no load).

60 ops./min. (rated load).

**Initial Contact Resistance:** 

AgSnO or AgNi 90/10: 100 milliohms @ 1A, 12VDC. AgSnO, Au plated: 50 milliohms @ 100mA, 6VDC.

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

Rated Voltage: AC: 250V; DC: 24V.

Max. Switched Current: 6A.

Max. Switched Power: 1,500VA. (See curve for DC Power). Minimum Load: AgSnO or AgNi 90/10: >500mA, 12VAC/VDC.

AgSnO, Au plated: >10mA, 5VAC/VDC.

Expected Mechanical Life: 10 million operations.

Expected Electrical Life: See curve.

#### **Initial Dielectric Strength**

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

Surge Voltage Between Coil and Contacts: 6,000V (1.2/50µs). Creepage/Clearance Coil-to-Contact: Min. 6/8mm. Consult factory

regarding availability of 1 Form A model with 8/8mm.

#### Initial Insulation Resistance

Between Mutually Insulated Conductors: 100,000Mohm @ 500VDC

#### Coil Data @ 20°C

Voltage: 5 to 48VDC Nominal Power: 170mW.

V23092				
Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance (ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)
5	34.0	119	3.50	0.25
12	14.2	848	8.40	0.6
24	7.1	3,390	16.80	1.20
48	4.5	10,600*	33.60	2.40

<sup>\* +15%</sup> 

#### Operate Data @ 20°C

Must Operate Voltage: 70% of nominal voltage or less. Must Release Voltage: 5% of nominal voltage or more.

Operate Time: 5 ms max. at nominal voltage. Release Time: 2.5 ms max. at nominal voltage. **Bounce Time:** 1.5 ms (N/O) typical at nominal voltage.

5 ms (N/C) typical at nominal voltage.

# V23092 (SNR) series

# 6 Amp Slim Miniature, **PC Board Relay**

c**Tu**s File E48393

File 0631 / 0160 / 0435

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.

#### **Environmental Data**

Temperature Range:

Operating: -40°C to +85°C. Operating Humidity: 20 to 85% RH.

#### **Mechanical Data**

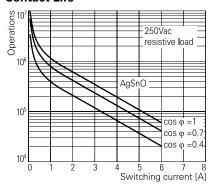
Termination: Printed circuit terminals.

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

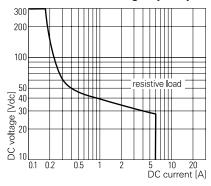
wash tight)

Weight: 0.2 oz. (6g) approximately.

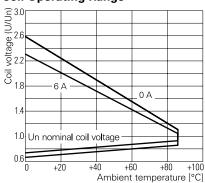
#### **Contact Life**



#### Max. DC Load Breaking Capacity



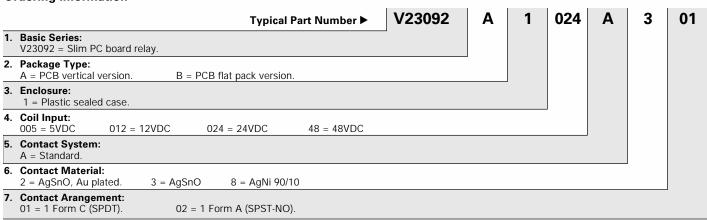
#### **Coil Operating Range**



**†YCD** Catalog 1308242

 Electronics
 Issued 3-03
 SCHRACK

#### **Ordering Information**

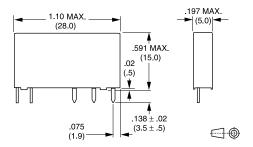


Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

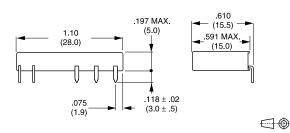
V23092A1012A301 V23092A1024A301

#### **Outline Dimensions**

#### **Vertical Version**

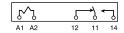


#### **Flat Pack Version**



### Wiring Diagrams (Bottom Views)

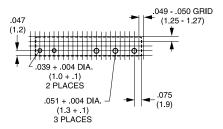
#### 1 Form C



### 1 Form A



#### PC Board Layout (Bottom View)





# **DIN Rail Interface Module and Accessories** for V23092 Series (SNR) Relay **PC Board Relay**

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#### **Features**

- Module width is 0.2 in (5.08mm).
- Narrow width permits high density packing of modules on a DIN rail.
- · Jumper bars available.
- · Available as a set or as individual components.

#### **Technical Information**

Rated Current / Rated Voltage: 6A / 250VAC. Dielectric Strength, Coil-to-Contact: >4,000Vrms. Insulation Category (VDR 0110b): C / 250. Operating Ambient Temperature: - 20°C to +55°C. Protection Category: IP 20.

Protection Against Accidental Contact Meeting: VBG 4.

Wire Cross Section with/without Bootlace Crimp: 0.22 - 2.5mm<sup>2</sup>. Terminal Torque (Nominal / Maximum): .295 / .442 ft-lb (0.4 / 0.6 Nm).

Component Parts			
ST 1F 000	Socket without LED		
ST 1F L24	Socket with LED for 12-24VDC.		
ST 16 016	Mounting frame for relay, without marking		
ST 17 002	Jumper bar, 2 pole		
ST 17 005	Jumper bar, 5 pole		
ST 17 010	Jumper bar, 10 pole		
ST 16 040	Marking plate, consiting of 100 marking tags		

Sets - Relay in frame, mounted in socket			
ST 1P3 024	24VDC, AgSnO <sub>2</sub> contacts		
ST 1P3 L12	12VDC, with LED, AgSnO <sub>2</sub> contacts		
ST 1P3 L24	24VDC, with LED, AgSnO <sub>2</sub> contacts		
ST 1P3 L48	48VDC, with LED, AgSnO <sub>2</sub> contacts		
ST 1P2 L24	24VDC, with LED, Au plated AgSnO <sub>2</sub> contacts		

#### **Outline Dimensions**

