Catalog 1308242 Issued 3-03





V23050 series

SR6 "Safety Relay" - PCB, neutral, monostable relay with six forcibly guided contacts.

Wus File E214024

Mo. 116064

Operate Data @ 23°C

Environmental Data

Mechanical Data

Weight: 1.01 oz. (30g).

300

200

Temperature Range: -25°C to +70°C. Solder Bath Temp./Max. Duration: 260°C/5s.

Termination: Printed circuit terminals.

TUV-Rheinland, No. 945/EZ 116/99

Users should thoroughly review the technical data before selecting a product part number. It is recommended that users 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.

Minimum Release Voltage: 10% of nominal voltage. Minimum Operating Voltage @ 70°C: 85% of nominal voltage.

Enclosure (UL94V-2 Flammability Ratings): Sealed (RTIII) plastic case.

Features

- 4 NO and 2 NC or 3 NO and 3 NC or 5 NO and 1 NC contacts.
- · Extremely compact.
- High insulation spacing for the safe separation of the contact circuits. Sealed case.
- · Ideal for emergency shut-off, machine control, elevator and escalator control, light barrier control.

Contact Data @ 23°C

Type: Single button contacts, forcibly guided. Arrangements: 3 NO and 3 NC, 4 NO and 2 NC or 5 NO and 1 NC. Material: Silver nickel alloy

Max. Continuous Current at Max. Amb. Temp.: 8A, 1 contact loaded. Max. Switched Voltage: 400VAC/VDC.

- Max. Switched Power: 2,000VA.
- Max. Switching Rate: 6 operations/min. at rated load. 600 operations/min. at minimum load.

Minimum Load: 50mW.

Initial Contact Resistance: 100 mQ - 1A/24VDC.

Expected Mechanical Life: 10⁷ operations

Electrical Life: 250VAC, 70°C ambient, 1 NO loaded with 8A and 1 NC loaded with 5A: 75,000 operations.

Initial Dielectric Strength

Between Open Contacts: 1,000VAC rms. Between Adjacent Contacts: 3,000VAC rms. Between Coil and Contacts: 3,000VAC rms.

Coil Data @ 23°C

Voltage: 5 to 110VDC. Nominal Power: 1.2W. Max. Coil Temperature: 130°C. Duty Cycle: Continuous.

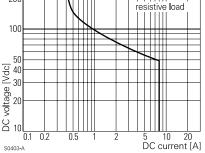
Coil Data @ 23°C

Rated Coil Voltage (VDC)	Coil Resistance (Ohms)	Must Operate Voltage (VDC)	Nominal Coil Current (mA)		
5	21 ± 2	3.75	240		
6	30 ± 3	4.5	200		
9	68 ± 7	6.8	130		
12	120 ± 12	9.0	100		
18	270 ± 27	13.5	70		
21	370 ± 40	15.8	60		
24	480 ± 50	18.0	50		
40	1,330 ± 130	30.0	30		
60	3,000 ± 300	45.0	20		
85	6,020 ± 600	64.0	14		
110	10,000 ± 1,000	82.5	11		

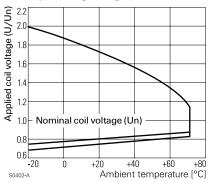
Dimensions are shown for reference purposes only.

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

Max. DC Load Breaking Capacity



Coil Operating Range



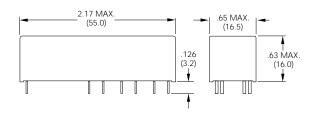
Specifications and availability subject to change.

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	tronics			Issued 3-03						<u>CHRACK</u>	
Or	dering Inforn	nation									
			Туріс	al Part Number	►	V23050	A1	012	Α	5	33
1.	Basic Series: V23050 = SR6	safety relay.									
2.	Enclosure: A1 = Sealed.						1				
3.	Coil Voltage: 005 = 5VDC 024= 24VDC	006 = 6VDC 040 = 40VDC	009= 9VDC 060= 60VDC	012 = 12VDC 085 = 85VDC		= 21VDC = 110VDC					
4.	Contact Type: A = Single cont										
5.	Contact Mater 5 = Silver nicke									-	
6.	Contact Arran 33 = 3 NO and 42 = 4 NO and 51 = 5 NO and	3 NC. 2 NC.									

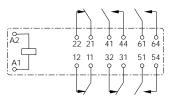
Our authorized distributors are more likely to stock the following items for immediate delivery.

None at present.

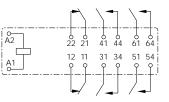
Outline Dimensions



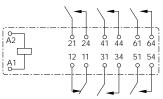
Wiring Diagrams (Bottom Views) 3 NO and 3 NC







5 NO and 1 NC



.197 (5.0) .197

> .394 (10.0)

> > 4

.197

(5.0)

(5.0)

256

(6.5

.236

(6.0)

.256

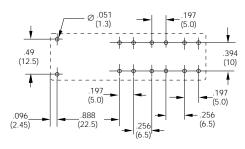
(6.5)

236

(6.0)

-

Suggested PC Board Layouts (Bottom Views) 3 NO and 3 NC, 4 NO and 2 NC



.197

(5.0)

.886

(22.5)

.925

(23.5)

.197 (5.0) .197 (5.0)

5 NO and 1 NC $\emptyset_{(1.3 + 0.1)}^{.051 + .004}$

.492

(12.5)

4

.096

(2.45)