Catalog 1308242 Issued 3-03 SCHRACK



V23050 series

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

c **Su**us File E214024

№ No. 116064

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.

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: $100 \text{ m}\Omega - 1\text{A}/24\text{VDC}$.

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	$3,000 \pm 300$	45.0	20		
85	$6,020 \pm 600$	64.0	14		
110	10,000 ± 1,000	82.5	11		

Operate Data @ 23°C

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

Environmental Data

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

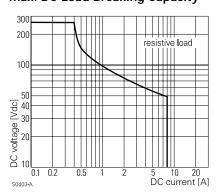
Mechanical Data

Termination: Printed circuit terminals.

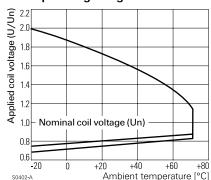
Enclosure (UL94V-2 Flammability Ratings): Sealed (RTIII) plastic case.

Weight: 1.01 oz. (30g).

Max. DC Load Breaking Capacity



Coil Operating Range



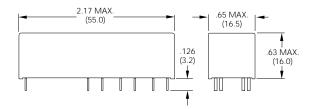
Ordering Information

0	ornig iinioiii	lation								
			Туріс	al Part Number 🕨	V23050	A1	012	Α	5	33
	Basic Series: /23050 = SR6	safety relay.								
	Enclosure: A1 = Sealed.									
C	Coil Voltage: 005 = 5VDC 024= 24VDC	006 = 6VDC 040 = 40VDC	009= 9VDC 060= 60VDC		021= 21VDC 110 = 110VDC					
4. Contact Type: A = Single contact.										
5. Contact Material: 5 = Silver nickel.										
3 4	Contact Arrange 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.

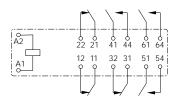
None at present.

Outline Dimensions

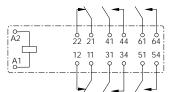


Wiring Diagrams (Bottom Views)

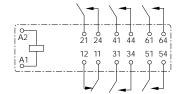
3 NO and 3 NC



4 NO and 2 NC

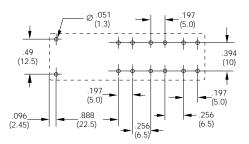


5 NO and 1 NC



Suggested PC Board Layouts (Bottom Views)

3 NO and 3 NC, 4 NO and 2 NC



5 NO and 1 NC

