## **三** E **三友继电器** SANYOU RELAYS

# Ele SAMTON 24000 EELER TOUZEONAC SROCIS-1120

# Miniature Power Relay

# SRDC

#### Features

- Low coil power consumption.
- Micro-miniature relay, standard PCB terminals.
- IEC60335-1 compliant product is available.

#### Safety certificate

UL、c-UL (File No.): E190598 TUV(File No.): R50142424 CQC(File No.): CQC02001002126

Contact Data						
Туре	SRDC					
Rated load (Resistive load)	10A 277VAC					
Max. switching current	15A					
Max. switching voltage	277VAC					
Max. switching power	2,770VA					
Min. switching load	6V 1A					
Characteristics						
Contact material	Silver alloy					
Contact resistance	100mΩ Max. (at 1A 6VDC)					
Operate time (at rated coil voltage)	8ms Max. (No diode)					
Release time	5ms Max. (No diode)					
Insulation resistance	Min. 1,000MΩ (at 500VDC)					
Dielectric strength	Between open contacts: 750VAC, 50/60Hz for 1min.					
Dielectric strength	Between coil and contact: 1,500VAC, 50/60Hz for 1min.					
Vibration resistance (NO)	Destructive	10 ~ 55Hz, at double amplitude of 1.5mm				
	Functional	$10 \sim 55$ Hz, at double amplitude of 1.5mm				
Shock resistance (NO)	Destructive	100G Min.				
	Functional	10G Min.				
Endurance	Mechanical endurance (10,800ops./h )	10,000,000(at room temperature)				
	Electrical endurance (360ops./h)	100,000(at room temperature)				
Ambient temperature	-40°C ~ +85°C (No condensation) For ambient temperature is 105°C, please contact Sanyou					
Weight	Approx. 7.0g					

Coil Data (at 20°C)							
Nominal voltage (VDC)	Nominal operating current ± 10%(mA)	Coil resistance ±10%(Ω)	Max. allowable voltage	Operate voltage (Max.)	Release voltage (Min.)	Nominal operating power	
3	120.00	25					
5	71.42	70		75% of nominal voltage	10% of nominal voltage	0.36W	
6	60.00	100					
9	40.00	225					
12	30.00	400	130% of nominal				
15	24.00	625	voltage				
18	20.00	900					
24	15.00	1,600					
48	7.50	6,400					
60	6.00	10,000					

The data shown above are initial values. Do not apply maximum allowable voltage on coil for more than 10 minutes to avoid overheating of the coil.

Safety Certificate Ratings (Note: More details of approved ratings, please refer to the safety certificates)						
Certificates	CQC	TUV	UL/CUL			
File No.	CQC02001002126	R50142424	E190598			
Approved Ratings	10A 277VAC 7A 277VAC	10A 277VAC 7A 277VAC	15A 125VAC, Resistive 10A 277VAC, Resistive 7A 277VAC, General use 10A 30VDC, Resistive 7A 30VDC, Resistive TV-5, 250VAC.			

(1) All values unspecified are at room temperature.

(2) Only typical ratings are listed above and the endurance differ in each load. Other specific load information are available upon request.

(3) For sealed type testing, please open the ventilation hole in the case before test.

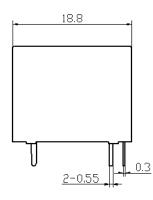
Ordering Information									
Nomenclature									
SRDC	-S	-1	12	D	Μ		-F	-XX	
									Special Parameter : Nil-Standard type Letter or number-Special requirement
									Insulation System : Ni-Standard,F - Class F
									Contact Material : Nil -AgSnO <sub>2</sub>
									Contact Arrangement: Nil-Form C, M-Form A
									Coil Power: D-0.36W
									Rated Coil Voltage(VDC): 03, 05, 06, 09, 12, 15, 18, 24, 48, 60
									Number of Poles: 1-1Pole
									Protective Construction: S-Flux-proof SH- Sealed type washable
									Type: SRDC

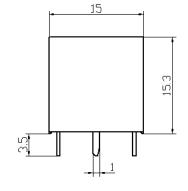
(1) Flux-proof relays can not be used in the environment with pollutants like H<sub>2</sub>S, SO<sub>2</sub>,NO<sub>2</sub>, dust, etc.

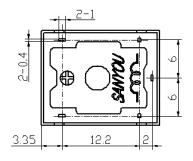
(2) Water cleaning or surface process is not suggested after the flux-proof relays are assembled on PCB.

(3) Customized special suffix is available after being evaluated by Sanyou.

# Outline dimension, wiring diagram, PCB layout (Unit: mm)

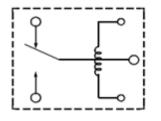


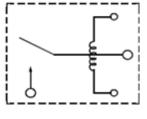




In case of no tolerance shown on outline dimension If dimension < 1 mm, tolerance: ±0.2mm If dimension 1~5mm, tolerance: ±0.3mm If dimension > 5mm, tolerance: ±0.4mm Note:

1.The dimension of pin is the size before tinning 2.Tolerance of PCB layout: ±0.1 mm.

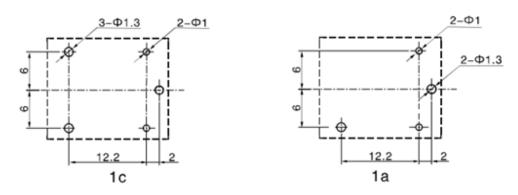




1c



Wiring Diagram (bottom)

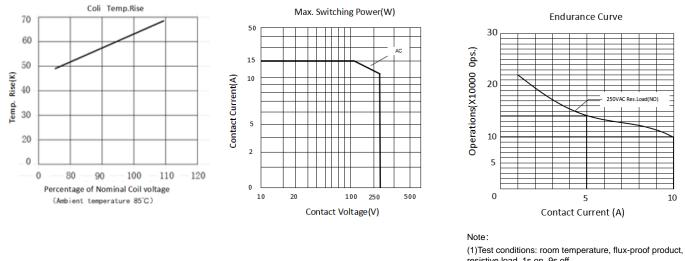


PCB Layout (bottom view)

#### **Typical Applications**

- •Home appliances: air conditioner, heater, etc.
- •Vending machine.
- •Office equipment: computer, fax machine, etc.
- •Electric controlled window, car antenna, door lock, etc.

## **Characteristic Curves**



(2) The above curves are for reference only, and the final result is

#### Disclaimer:

The specification is for reference only. Specifications are subject to change without prior notice.

We could not evaluate all the performance and all the parameters for every possible applications. Thus the users should in a right position to choose suitable product for their own application. For sealed relays, after installation and cleaning, please open the ventilation hole in the case before use. If there is any query, please contact Sanyou for technical services. However it is the user's responsibility to determine which product should be used.