SONGLE RELAY

松乐继电器 ® SONGLE RELAY	RELAY ISO9002	SRD

1. MAIN FEATURES

- Switching capacity available by 10A in spite of small size design for highdensity P.C. board mounting technique.
- UL,CUL,TUV recognized.
- Selection of plastic material for high temperature and better chemical solution performance.
- Sealed types available.
- Simple relay magnetic circuit to meet low cost of mass production.

2. APPLICATIONS

- Domestic appliance, office machine, audio, equipment, automobile, etc.
  (Remote control TV receiver, monitor display, audio equipment high rushing current use application.)

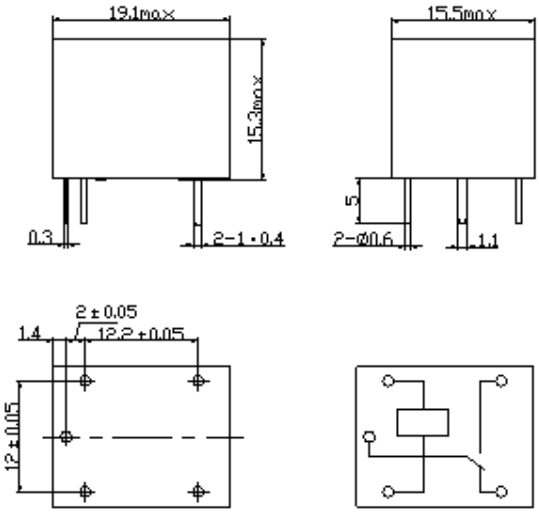
3. ORDERING INFORMATION

SRD	XX VDC	S	L	C
Model of relay	Nominal coil voltage	Structure	Coil sensitivity	Contact form
SRD	03、05、06、09、12、24、48VDC	S:Sealed type	L:0.36W	A:1 form A
				B:1 form B
		F:Flux free type	D:0.45W	C:1 form C

4. RATING

CCC	FILE NUMBER:	CQC03001003731	10A/250VDC
UL /CUL	FILE NUMBER:	E167996	10A/125VAC 28VDC
TUV	FILE NUMBER:	R 50056114	10A/250VAC 30VDC

5. DIMENSION(unit:mm) DRILLING(unit:mm) WIRING DIAGRAM



6. COIL DATA CHART (AT20°C)

Coil Sensitivity	Coil Voltage Code	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω) ±10%	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max-Allowable Voltage (VDC)
SRD (High Sensitivity)	03	03	120	25	abt. 0.36W	75%Max.	10% Min.	120%
	05	05	71.4	70				
	06	06	60	100				
	09	09	40	225				
	12	12	30	400				
	24	24	15	1600				
	48	48	7.5	6400				
SRD (Standard)	03	03	150	20	abt. 0.45W	75% Max.	10% Min.	110%
	05	05	89.3	55				
	06	06	75	80				
	09	09	50	180				
	12	12	37.5	320				
	24	24	18.7	1280				
	48	48	10	4500	abt. 0.51W			

7. CONTACT RATING

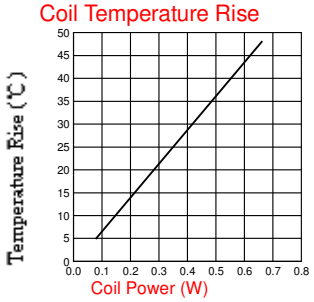
Item \ Type	SRD	
	FORM C	FORM A
Contact Capacity Resistive Load (cosΦ=1)	10A 125VAC	10A 30VDC 10A 250VAC
Inductive Load (cosΦ=0.4 L/R=7msec)	3A 120VAC 3A 28VDC	5A 120VAC 5A 28VDC
Max. Allowable Voltage	250VAC/110VDC	250VAC/110VDC
Max. Allowable Power Force	800VAC/240W	1200VA/300W
Contact Material	AgCdO	AgCdO

8. PERFORMANCE (at initial value)

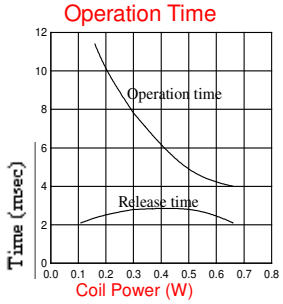
Item \ Type	SRD
Contact Resistance	100mΩ Max.
Operation Time	10msec Max.
Release Time	5msec Max.
Dielectric Strength Between coil & contact Between contacts	 1500VAC 50/60HZ (1 minute) 1000VAC 50/60HZ (1 minute)
Insulation Resistance	100 MΩ Min. (500VDC)
Max. ON/OFF Switching Mechanically Electrically	 300 operation/min 30 operation/min
Ambient Temperature	-40°C to +85°C
Operating Humidity	45 to 85% RH
Vibration Endurance Error Operation	 10 to 55Hz Double Amplitude 1.5mm 10 to 55Hz Double Amplitude 1.5mm
Shock Endurance Error Operation	 100G Min. 10G Min.
Life Expectancy Mechanically Electrically	 10^7 operations. Min. (no load) 10^5 operations. Min. (at rated coil voltage)
Weight	abt. 10grs.

9.REFERENCE DATA

Coil Temperature Rise

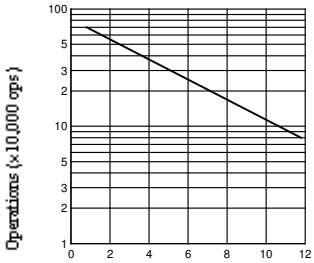


Operation Time

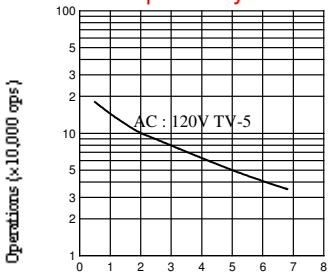


Life Expectancy

AC120V/DC24V cosΦ=1

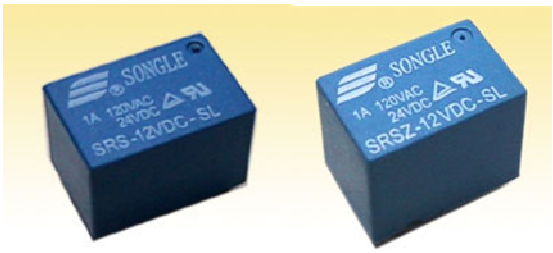


Life Expectancy



SONGLE RELAY

松乐继电器 ® SONGLE RELAY	RELAY ISO9002	SRS/SRSZ



1. MAIN FEATURES

☐Subminiature Type.
☐Silver or Silver Alloy Contacts withGold Plated.
☐Low Dissipation.
☐Sealed Type Available.
☐Design conforms to foreign safety standard UL,CUL,TUV

2. APPLICATIONS

óMicroprocessor Control, Store Program Exchanger and Household Appliance.

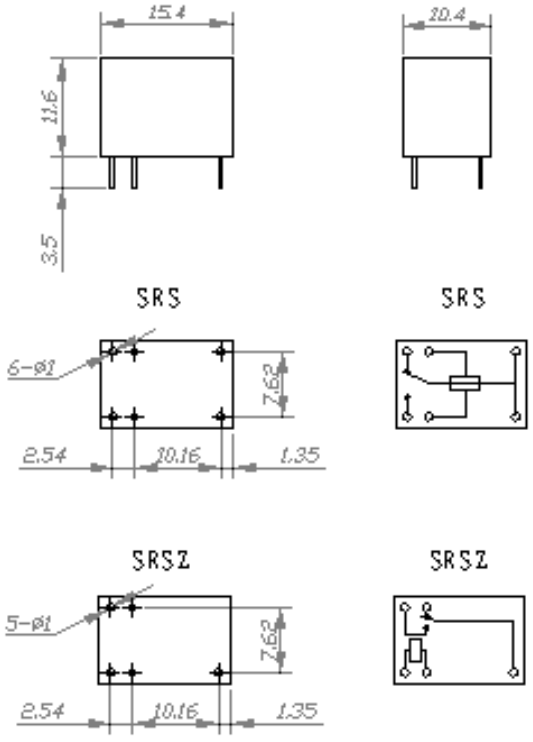
3. ORDERING INFORMATION

SRS/SRSZ	XX VDC	S	L
Model of relay	Nominal coil voltage	Structure	Coil sensitivity
SRS/SRSZ	03 05 06 09 12 24VDC	S: Sealed type	H: 0.20W
			L: 0.36W
		F: Flux free type	D: 0.45W

4. RATING

UL /CUL FILE NUMBER: E167996 1A/120VAC 24VDC
TUV FILE NUMBER: R50056114 3A/250VAC 30VDC
3A/120VAC 24VDC

5. DIMENSION(unit:mm) DRILLING(unit:mm) WIRING DIAGRAM



6. COIL DATA CHART (AT20 ° C)

Coil Sensitivity	Coil Voltage Code	Nominal Voltage (VDC)	Nominal Current (mA)	Coil Resistance (Ω) ☐	Power Consumption (W)	Pull-In Voltage (VDC)	Drop-Out Voltage (VDC)	Max-Allowable Voltage (VDC)
				10%				
SRS(Z) (High Sensitivity)	03	03	66.7	45	abt. 0.2 W	75% Max.	5% Min.	110%
	05	05	40	125				
	06	06	33.3	180				
	09	09	22.2	405				
	12	12	16.7	720				
SRS(Z) (Standard)	24	24	8.3	2880	abt. 0.36W	75% Max.	5% Min.	110%
	03	03	120	25				
	05	05	66.7	75				
	06	06	60	100				
	09	09	40.9	220				
	12	12	30	400				
SRS(Z) (Normal Sensitivity)	24	24	15	1600	abt. 0.45W	75% Max.	5% Min.	110%
	03	03	150	20				
	05	05	89.3	56				
	06	06	75	80				
	09	09	50	180				
	12	12	37.5	320				
	24	24	18.75	1280				

7. CONTACT RATING

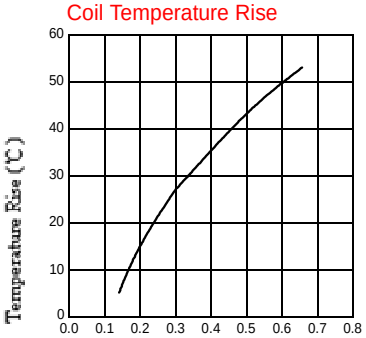
Item \ Type	SRS/SRSZ 1 Amp type	SRS/SRSZ 1 Amp type
Contact Capacity ResistiveLoad(cosΦ=1)	Coil=0.2W 1A 125VAC 1A 30VDC	Coil=0.2W 3A 250VAC 1A 30VDC
InductiveLoad (cosΦ=0.4 L/R=7msec)	0.3A 125VAC 0.3A 30VDC	0.3A 250VAC 0.3A 30VDC
Rated Carrying Current	1 A	1 A
Contact Material	Ag Alloy	Ag Alloy

8. PERFORMANCE (at initial value)

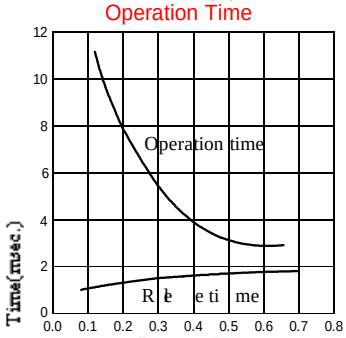
Item \ Type	SRS/SRSZ
Contact Resistance	100mΩ Max.
Operation Time	10msec Max.
Release Time	5msec Max.
Dielectric Strength	
Between coil & contact	500VAC 50/60HZ (1 minute)
Between contacts	500VAC 50/60HZ (1 minute)
Insulation Resistance	100 MΩ Min. (500VDC)
Max. ON/OFF Switching	
Mechanically	300 operation/min
Electrically	30 operation/min
Operating Ambient Temperature	-25☐C to +70☐C
Operating Humidity	45 to 85% RH
Vibration Endurance	10 to 55HZ Single Amplitude 0.35mm
Error Operation	10 to 55HZ Single Amplitude 0.35mm
Shock Endurance	50G Min.
Error Operation	10G Min.
Life Expectancy	10^7 operations. Min. (no load)
Mechanically	10^5 operations. Min. (at rated coil voltage)
Electrically	
Weight	abt. 4grs.

9.REFERENCE DATA

Coil Temperature Rise



Operation Time



Life Expectancy