

# SONGLE RELAY

	RELAY ISO9002	<b>SRD</b>
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## 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.)

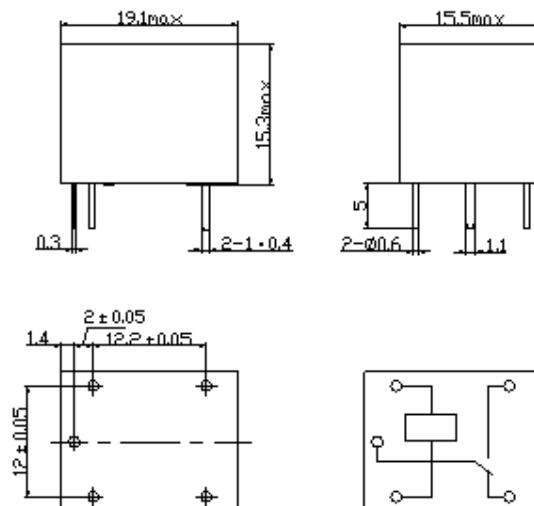
## 3. ORDERING INFORMATION

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
		F:Flux free type	D:0.45W	B:1 form B
				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 ( $\Omega$ ) $\pm 10\%$	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

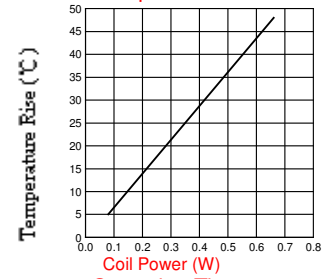
Item	Type	SRD	
		FORM C	FORM A
Contact Capacity Resistive Load ( $\cos\Phi=1$ )		10A 125VAC	10A 30VDC 10A 250VAC
Inductive Load ( $\cos\Phi=0.4$ L/R=7msec)		3A 120VAC 3A 28VDC	5A 120VAC 5A 28VDC
Max. Allowable Voltage		250VAC/110VDC	250VAC/110VDC
Max. Allowable Power Force		800VAC/240W	1200VA/300W
Contact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

## 8. PERFORMANCE (at initial value)

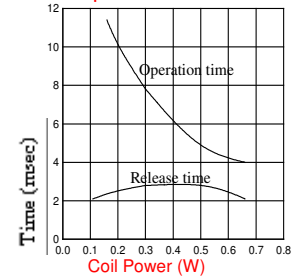
Item	Type	SRD
Contact Resistance		100m $\Omega$ Max.
Operation Time		10msec Max.
Release Time		5msec Max.
Dielectric Strength		
Between coil & contact		1500VAC 50/60HZ (1 minute)
Between contacts		1000VAC 50/60HZ (1 minute)
Insulation Resistance		100 M $\Omega$ Min. (500VDC)
Max. ON/OFF Switching		
Mechanically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

## 9. REFERENCE DATA

### Coil Temperature Rise

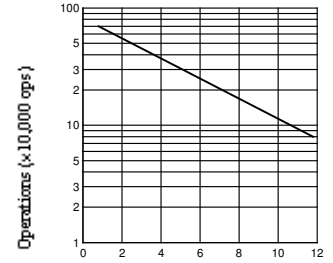


### Operation Time

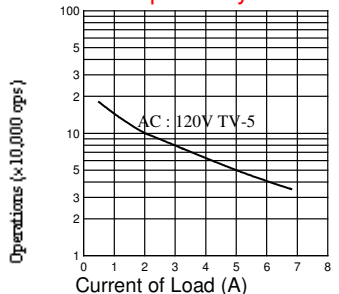


### Life Expectancy

AC120V/DC24V  $\cos\Phi=1$



### Life Expectancy



# SONGLE RELAY



RELAY ISO9002

SRS/SRSZ



## 1. MAIN FEATURES

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

## 2. APPLICATIONS

Microprocessor 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 D5 D6 D9 H2 P4 VDC	S: Sealed type	H: 0.20W
		F: Flux free type	L: 0.36W
			D: 0.45W

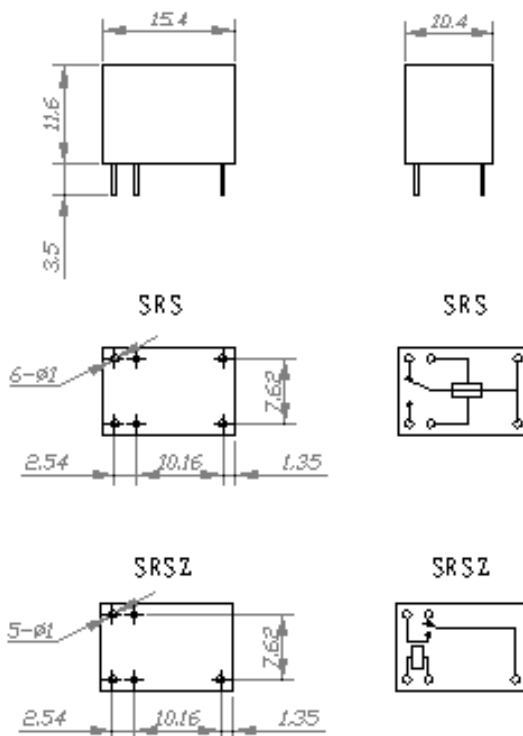
## 4. RATING

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)
SRS(Z) (High Sensitivity)				10%	abt. 0.2 W	75% Max.	5% Min.	110%
	03	03	66.7	45				
	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		Coil=0.2W	Coil=0.2W
Resistive Load (cosΦ=1)		1A 125VAC 1A 30VDC	3A 250VAC 1A 30VDC
Inductive Load (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 <sup>7</sup> operations. Min. (no load)
Mechanically		10 <sup>5</sup> operations. Min. (at rated coil voltage)

Weight abt. 4grs.

## 9. REFERENCE DATA

