

# SONGLE RELAY



RELAY ISO9002

**SRU**



## 1. MAIN FEATURES

- High contact capacity : 15A, (15A for UL approved)
- UL/CSA, TUV recognized. (TV-5 Approved).
- Employment of suitable plastic materials to be applied to high temperature and various chemical solution.
- Sealed types available.

## 2. APPLICATIONS

- Home appliance, air conditioner, heater, etc.
- Automotive Power-window, car antenna, door-lock, etc.
- Office machine, facsimile, etc.
- Vending machine.
- Remote control TV receivers, monitor displays, audio equipment high rushing current use application.

## 3. ORDERING INFORMATION

SRU	XX VDC	S	L	C
Model of relay	Nominal coil voltage	Structure	Coil sensitivity	Contact form
SRU	03、05、06、09、12、 18、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

10A/250VAC 30VDC

15A/120VAC 28VDC

CCC FILE N MBER: CQC03001003731 10A/250VDC

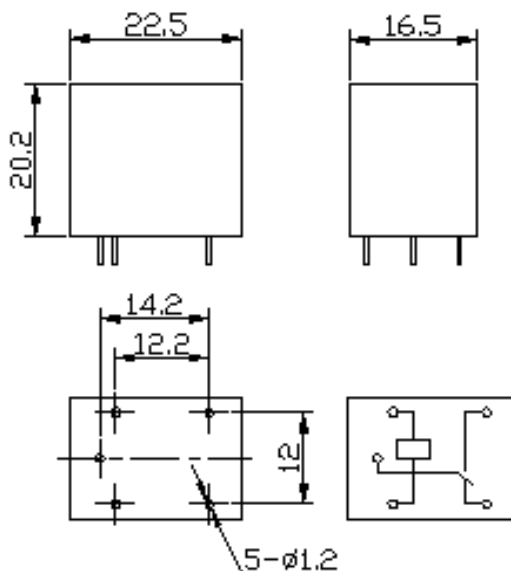
UL/CUL FILE NUMBER: E167996 10A/240VAC , 12A/120VAC , 15A/120VAC 24VDC

TUV FILE NUMBER: R50056114 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)
SRU (High Sensitivity)	03	03	120	25	abt. 0.36W	75% Max.	10% Min.	130%
	05	05	71	70				
	06	06	60	100				
	09	09	40	225				
	12	12	30	400				
	24	24	15	1600				
	48	48	7.5	6400				
SRU (Standard)	03	03	150	20	abt. 0.45W	75% Max.	10% Min.	130%
	05	05	89	56				
	06	06	75	80				
	09	09	50	180				
	12	12	37.5	320				
	18	18	25	720				
	24	24	18.7	1280				
	48	48	10	4500	abt. 0.51W			

## 7. CONTACT RATING

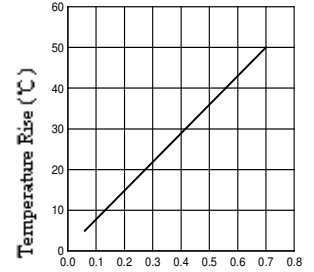
Item	Type	SRU	
		FORM C	FORM A
Contact Capacity Resistive Load ( $\cos\Phi=1$ )		10A 30VDC	15A 28VDC
		15A 120VAC	15A 125VAC
		10A 250VAC	10A 250VAC
Inductive Load ( $\cos\Phi=0.4$ L/R=7msec)		5A 250VAC	7A 120VAC
		5A 28VDC	7A 28VDC
Rated Carrying Current		12A	15A
Referenced Min. Applicable Load		5VDC, 10mA	5VDC, 10mA
Contact Material		AgCdO	AgCdO

## 8. PERFORMANCE (at initial value)

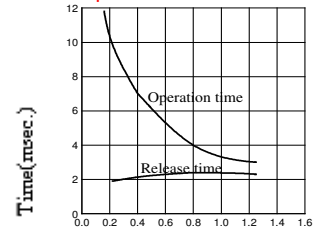
Item	Type	SRU
Contact Resistance		100m $\Omega$ Max.
Operation Time		10msec Max.
Release Time		5msec Max.
Dielectric Strength	Between coil & contact	1500VAC 50/60HZ (1 minute)
	Between contacts	1000VAC 50/60HZ (1 minute)
Insulation Resistance		100 M $\Omega$ Min. (500VDC)
Max. ON/OFF Switching	Mechanically	300 operation/min
	Electrically	30 operation/min
Ambient Temperature		-40°C to +85°C
Operating Humidity		45 to 85% RH
Vibration Endurance	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	$10^7$ operations. Min.
	Electrically	$10^5$ operations. Min.
Weight		abt. 12grs.

## 9. REFERENCE DATA

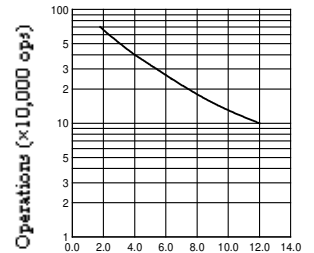
Coil Temperature Rise



Coil Power (W)  
Operation Time



Coil Power (W)  
Life Expectancy



Current of Load (A) for SRU  
Life Expectancy

