



## Features

- Small size (20.5x7x15.1mm) for high density PCB mounting.
- 5A contact switching capability.
- High breakdown voltage: 4000V (between coil and contact).

## Safety Approval

UL, C-UL File No.: E190598

TUV File No.: R50138320

CQC File No.: CQC07001019820

## Contact Capacity

Model	SRB
Nominal switching capacity (res. load)	5A 277VAC 3A 277VAC
Max. switching current	5A
Max. switching voltage	277VAC
Max. switching power	1,385VA

## Charateristic Data

Contact material	Silver alloy	
Initial contact resistance (at 6VDC 1A)	50mΩ Max.	
Operate time (at nominal volt.)	20msec. Max.	
Release time (at nominal volt.)	10msec. Max.	
Initial insulation resistance	1,000MΩ Min.(DC500V)	
Initial dielectric strength	Between open contacts: AC750V, 50/60Hz 1Min.	
	Between coil and contact: AC4,000V, 50/60Hz 1Min.	
Vibration resistance	Functional	10 ~ 55Hz at double amplitude of 1.5 mm
	Destructive	10 ~ 55Hz at double amplitude of 1.5 mm
Shock resistance	Functional	10G Min.
	Destructive	100G Min.
Endurance (operations)	Mechanical (at 10,800 ops./h)	10,000,000
	Electrical (at 1,800 ops./h)	3A 277VAC: 100,000 5A 277VAC: 50,000
Ambient temperature	-40°C ~ +105°C (no condensation)	
Unit weight	Approx. 3.9 g	

## Coil Data (at 20°C)

Nominal voltage (VDC)	Nominal operating current ± 10% (mA)	Coil resistance ± 10% (Ω)	Max. allowable voltage	Pick-up voltage (Max.)	Drop-out voltage (Min.)	Nominal operating power
5	40.00	125	110 % of nominal voltage	75 % of nominal voltage	5 % of nominal voltage	Approx. 0.20W
6	33.33	180				
9	22.22	405				
12	16.67	720				
18	11.11	1,620				
24	8.57	2,800				

**Coil Data** (at 20°C)

Nominal voltage (VDC)	Nominal operating current $\pm 10\%$ (mA)	Coil resistance $\pm 10\%$ ( $\Omega$ )	Max. allowable voltage	Pick-up voltage (Max.)	Drop-out voltage (Min.)	Nominal operating power
5	72.00	69	110 % of nominal voltage	75 % of nominal voltage	5 % of nominal voltage	Approx. 0.36W
6	60.00	100				
9	40.00	225				
12	30.00	400				
18	20.00	900				
24	15.00	1,600				

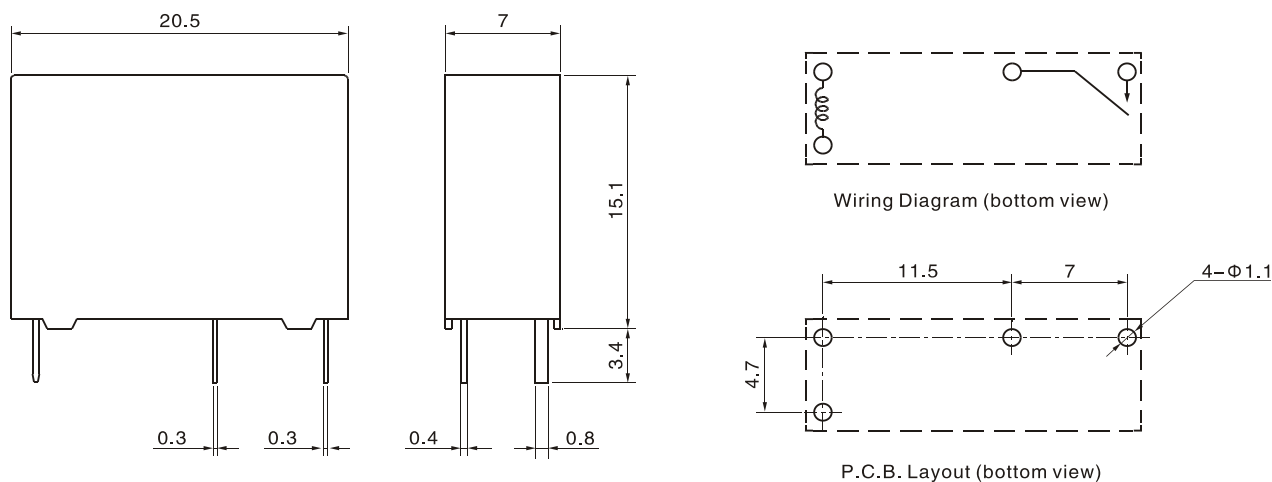
**Safety Approval Ratings**

Approval	CQC	TUV	UL/CUL
File No.	CQC07001019820	R50138320	E190598
Approved ratings	5A 277VAC 3A 277VAC	5A 277VAC 3A 277VAC	5A 277VAC, Resistive 3A 277VAC, Resistive 3A 30VDC, Resistive 5A 250VAC, Resistive 3A 250VAC, Resistive 5A 250VAC, General Use 3A 250VAC, General Use 1/8HP 240VAC

**Ordering Information**

Nomenclature									
SRB	-S	-1	12	D	M	1	-F	-XX	
Special Parameter: Nil-Standard type, 10-3A product, Letter or number-Special requirement									
Insulation System: Nil-Standard, B-Class B, F-Class F									
Contact Material: Nil-AgSnO <sub>2</sub> , 1-AgCdO									
Contact Form: M-Form A									
Coil Power: D-0.20W, H-0.36W									
Coil Voltage (VDC): 05, 06, 09, 12, 18, 24									
Number of Poles: 1-1 Pole									
Protective Construction: S-Flux proofed, SH-Sealed type washable									
Type Designation: SRB									

## Outline Dimensions, Wiring Diagram, P.C. Board Layout (unit: mm)



Unless otherwise specified:

If dimension < 1mm, tolerance:  $\pm 0.2$ mm;

If dimension 1~5mm, tolerance:  $\pm 0.3$ mm;

If dimension > 5mm, tolerance:  $\pm 0.4$ mm.

Note: 1. Extended terminal dimension is dimension before soldering.

2. Tolerance of P.C.B. layout:  $\pm 0.1$ mm.

## Typical Applications

- Telecommunication equipment
- Office equipment
- Safety equipment
- Home appliances such as air conditioner, microwave oven

## Characteristic Curves

