

### 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

VDE File No : 40033402

CQC File No : CQC02001002126

### 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

### Characteristic Data

Contact material	Silver alloy	
Initial contact resistance	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 coilandcontact : AC4,000V , 50/60Hz 1Min.	
Vibration resistance	Function	10 ~ 55Hz at double amplitude of 1.5 mm
	Destructive	10 ~ 55Hz atdouble amplitude of 1.5 mm
Shock resistance	Function	10G Min.
	Destructive	100G Min.
Endurance (operations)	Mechanical (at 10,800ops./h)	10,000,000
	Electrical (at1,800ops./h)	100,000
Ambient temperature	-40°C ~ +85°C(no condensation)	
Unit weight	Approx. 3.9g	

### 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	130 % 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				

CoilData (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	72.00	69	130 % of nominal voltage	75 % of nominal voltage	5 % of nominal voltage	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

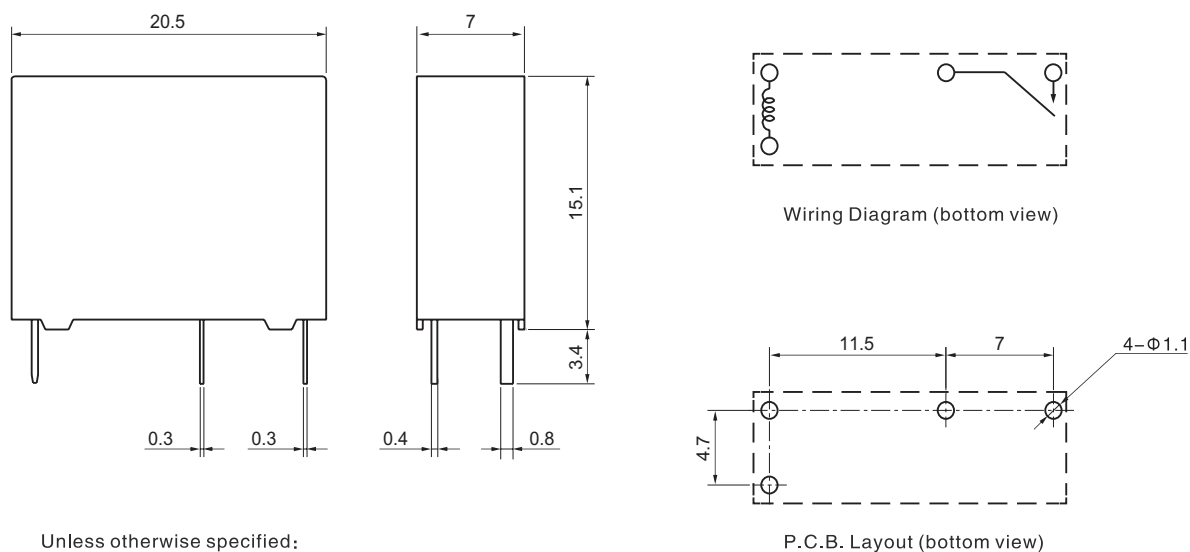
Approval	CQC	TUV	VDE	UL/CUL
File No.	CQC07001019820	R50138320	40033402	E190598
Approved Ratings	5A 277VAC 3A 277VAC	5A 277VAC 3A 277VAC	3A 277VAC 5A 277VAC	5A 277VAC , Resistive 3A 277VAC , Resistive 3A 30VDC , Resistive 5A 250VAC , Resistive 3A 250VAC , Resistive 5A 250VAC , General Use 3A 250VAC , General Use 1/ 8HP 240VAC TV-3, 120VAC

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-AgSnO2, 1-AgCdO, 2-AgNi-BT <sup>(1)</sup>									
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									

Note : (1)AgNi-BT is compound contact of silver and copper, so the head of the contact is AgNi, and the tail of the contact is Cu.

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

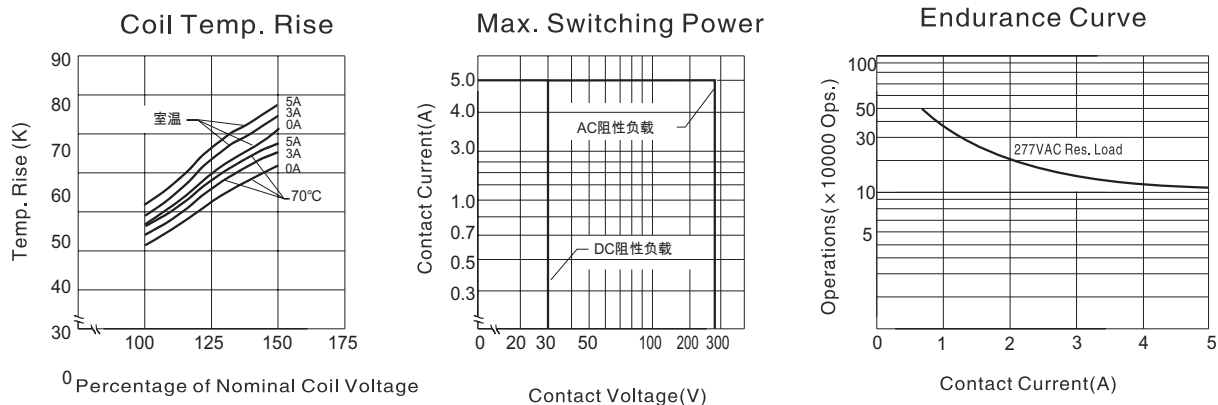


Unless otherwise specified:  
 If dimension < 1mm, tolerance: ±0.2mm;  
 If dimension 1~5mm, tolerance: ±0.3mm;  
 If dimension > 5mm, tolerance: ±0.4mm.  
 Note: 1. Extended terminal dimension is dimension before soldering.  
 2. Tolerance of P.C.B. layout: ±0.1mm.

## Typical Applications

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

## Characteristic Curves



### Disclaimer:

This datasheet is the customers' reference. All the specification are subject to change without notice.  
 We could not evaluate all the performance and all the parameters for every possible application. Thus the user should in a right position to choose the suitable product for their own application. If there is any query, please contact Sanyou for the technical service. However it is the user's responsibility to determine which product should be used only.