

Features

- Small size (20.5x7.2x16.6mm) for high density PCB mounting.
- 10A contact switching capability.
- High breakdown voltage : 4000V (between coil and contact).
- Compliance with RoHS and the requirements for White Goods
- Compliance with IEC60335-1



Safety Approval

UL , C-UL File No. : E179745

TUV File No. : R50252208

CQC File No. : CQC13002089945

VDE File No. : 40045446

Contact Capacity

| Model | SRC | SRCH |
|--|-----------|-----------|
| Nominal switching capacity (res. load) | 5A 277VAC | 7A 277VAC |
| Max. switching current | 10A | 10A |
| Max. switching voltage | 277VAC | 277VAC |
| Max. switching power | 2770VA | 2770VA |

Characteristic Data

| | | |
|---|--|---|
| Contact material | Silver alloy | |
| Initial contact resistance (at 6VDC 1A) | 100mΩ 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 | Destructive | 10 ~ 55Hz at double amplitude of 1.5 mm |
| | Functional | 10 ~ 55Hz at double amplitude of 1.5 mm |
| Shock resistance | Destructive | 100G Min. |
| | Functional | 10G Min. |
| Endurance (operations) | Mechanical (at 10,800 ops./h) | 10,000,000 |
| | Electrical (at 360 ops./h) | 5A 277VAC: 100,000 SRC 7A 277VAC: 100,000 SRCH |
| 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 | 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 | 2,880 | | | | |

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 | 72.00 | 69 | 130 % 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

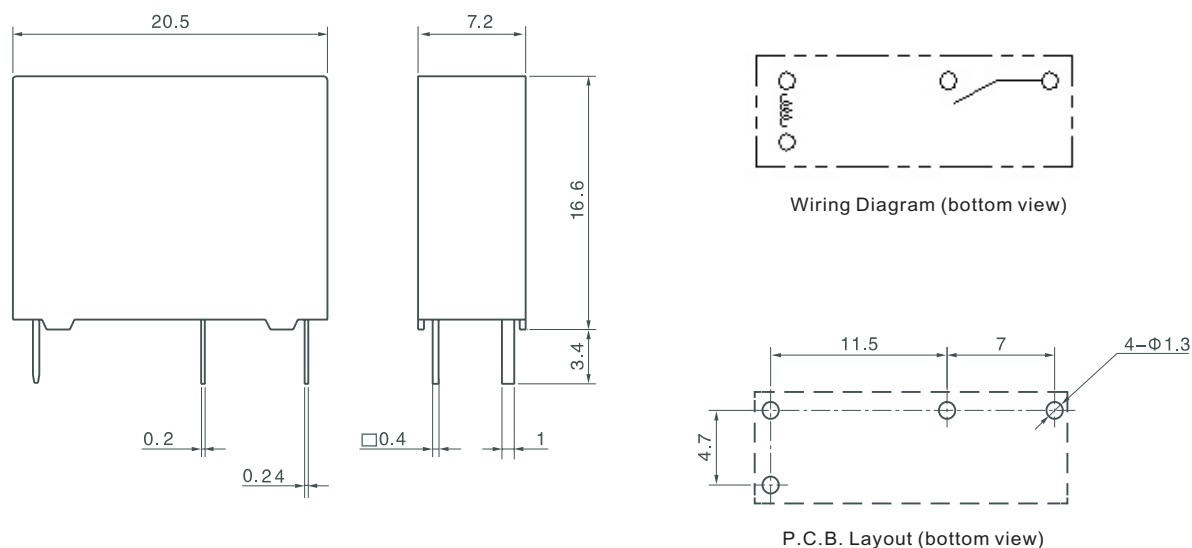
(Note: More detail of approval ratings, please refer to the safety certification)

| Approval | CQC | UL/CUL | TUV | VDE |
|------------------|---------------------------------|--|---------------------------------|---------------------------------|
| File No. | CQC13002089945 | E179745 | R50252208 | 40045446 |
| Approved ratings | SRC 5A 277VAC SRCH 7A 277VAC | SRC 5A 277VAC, Resistive 5A 277VAC, General Use SRCH 7A 277VAC, Resistive 7A 277VAC, General Use TV-3 120VAC | SRC 5A 277VAC SRCH 7A 277VAC | SRC 5A 277VAC SRCH 7A 277VAC |

Ordering Information

| Nomenclature | | | | | | | | | |
|--|----|----|----|---|---|---|----|-----|--|
| SRC | -S | -1 | 12 | D | M | 1 | -F | -XX | |
| Special Parameter : Nil-Standard type | | | | | | | | | |
| Insulation System : Nil-Standard, B-Class B, F-Class F | | | | | | | | | |
| Contact Material : Nil-AgSnO2,2-AgNi,3-AgSnO2+AU,4-AgNi+AU | | | | | | | | | |
| 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 : SRC/SRCH(High load model) | | | | | | | | | |

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

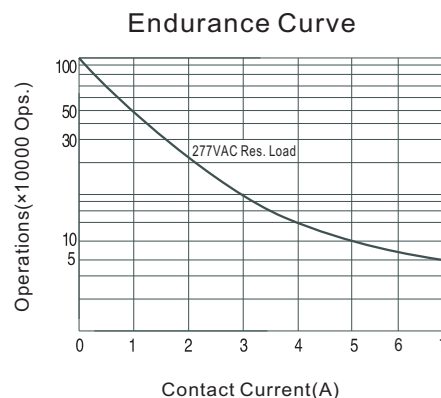
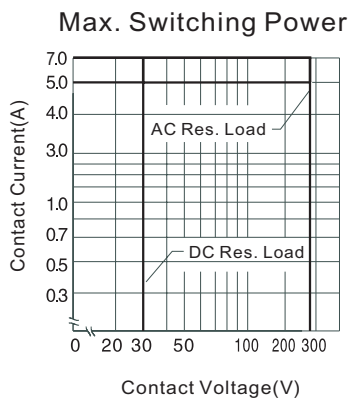
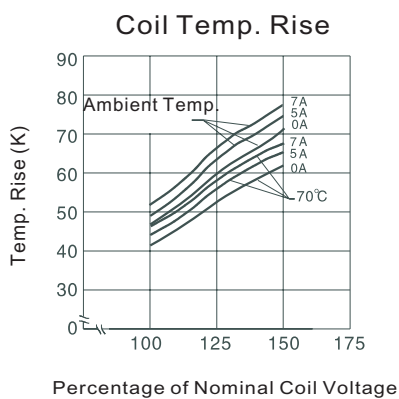


Unless otherwise specified :
 If dimension < 1mm, tolerance : ± 0.2 mm;
 If dimension 1~5mm, tolerance : ± 0.3 mm;
 If dimension > 5mm, tolerance : ± 0.4 mm.
 Note : 1. Extended terminal dimension is dimension before soldering.
 2. Tolerance of P.C.B. layout : ± 0.1 mm.

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.