

FEATURES

- Small size, light weight
- Low power consumption
- PCB terminal



APPLICATION

Household appliance
Automatic system
Electronic equipment
Telecommunication equipment

COIL PARAMETER

| | | |
|--------------|----------------|------|
| Coil voltage | 6-24VDC | |
| Coil power | Sensitive type | 0.6W |
| | Standard type | 0.8W |

COIL DATA @23°C

| Sensitive type (0.6W) | | | | |
|----------------------------|----------------------|--|----------------------------|----------------------------|
| Nominal coil voltage (VDC) | Nominal Current (mA) | Coil Resistance (Ω) \pm 10% | Operate Voltage (VDC Max.) | Release Voltage (VDC Min.) |
| 6 | 100.0 | 60 | 4.50 | 0.60 |
| 9 | 66.7 | 135 | 6.75 | 0.9 |
| 12 | 50.0 | 240 | 9.00 | 1.20 |
| 24 | 25.0 | 960 | 18 | 2.4 |

| Standard type(0.8W) | | | | |
|----------------------------|----------------------|--|----------------------------|----------------------------|
| Nominal coil voltage (VDC) | Nominal Current (mA) | Coil Resistance (Ω) \pm 10% | Operate Voltage (VDC Max.) | Release Voltage (VDC Min.) |
| 6 | 133.3 | 45 | 4.50 | 0.60 |
| 9 | 89.1 | 101 | 6.75 | 0.9 |
| 12 | 66.7 | 180 | 9.00 | 1.20 |
| 24 | 33.3 | 720 | 18 | 2.4 |

CONTACT DATA

| | |
|---------------------------------|--|
| Contact arrangement | 1 Form A, 1 Form B, 1 Form C, 2 Form A |
| Contact material | Silver Alloy |
| Initial contact resistance | 40mV Type, 200mV Max (at 10A) |
| Max. switching voltage | 30VDC/250VAC |
| Max. switching current | 20A |
| Max. switching power | 280W/1200VA |
| Contact rating (Resistive Load) | NO/NC: 20A/15A 14VDC |
| | NO/NC: 10A/10A 120VAC |
| Mechanical endurance | 10,000,000 ops Min.(no load) |
| Electrical endurance | 100,000 ops Min.(rated load) |
| Minimum load (reference value) | 1A@6VDC |

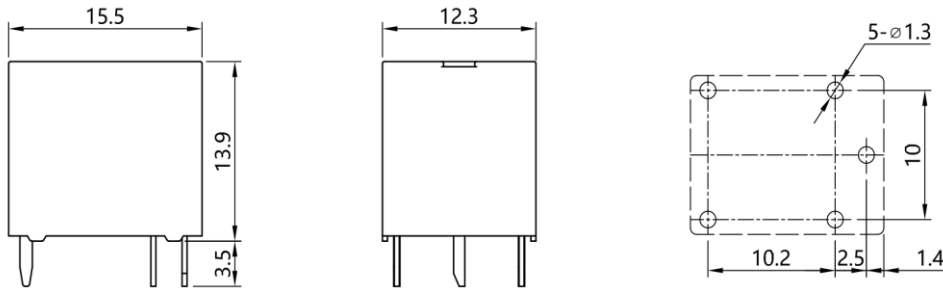
CHARACTERISTICS

| | | |
|--|---|-------------------------------------|
| Operate voltage | 70% of nominal voltage or less | |
| Release voltage | 10% of nominal voltage or more | |
| Operate time(At nominal voltage) | 10ms max. | |
| Release time(At nominal voltage) | 5ms max. | |
| Insulation resistance | 100M Ω min. (at 500 VDC) | |
| Dielectric strength | Between coil and contacts | \geq 500 VAC, 50/60Hz (1 min) |
| | Between open contacts | \geq 500 VAC, 50/60Hz (1 min) |
| Vibration resistance | Destruction | 10Hz~ 55Hz., 1.5mm double amplitude |
| | Malfunction | 10Hz~ 55Hz., 1.5mm double amplitude |
| Shock resistance | Destruction | 1,000m/S ² (100G Min.) |
| | Malfunction | 200m/S ² (10G Min.) |
| Ambient temperature | -40~+85°C (without icing or condensation) | |
| Ambient humidity | 20%~85% RH | |
| Terminal | PCB terminal | |
| Enclosure (94V-0 Flammability Ratings) | V: Vented(Flux proof, RTII) | |
| | S: Sealed(Wash-tight, RTIII) | |
| Weight | Approx. 6g | |

ORDERING INFORMATION

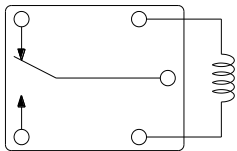
| | | | | | | | | |
|--------------------------------------|--|----|----|----|---|---|---|------|
| | CHPA | -V | -1 | 12 | D | A | 2 | ,000 |
| 1.Product Family | | | | | | | | |
| 2.Enclosure | V: Vented(Flux proof, RTII) S: Sealed(Wash-tight, RTIII) | | | | | | | |
| 3.Number of Poles | 1: 1 pole 2: 2 pole | | | | | | | |
| 4.Rated Coil Voltage | 12,24VDC | | | | | | | |
| 5.Coil power | D: 0.6W H: 0.8W | | | | | | | |
| 6.Contact Arrangement | A: Form A(SPST) C: Form C(SPDT) | | | | | | | |
| 7.Contact Material | 2: AgSnO2 | | | | | | | |
| 8.Additional numbers and /or letters | 000-999, AAA-ZZZ, aaa-zzz or blank, which does not represent electrical changes, only for specific customer requirements | | | | | | | |

OUTLINE DIMENSION

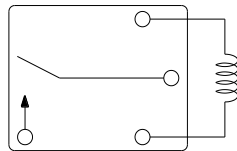


WIRING DIAGRAMS (BOTTOM VIEWS)

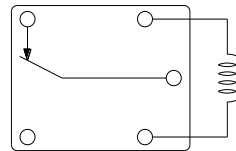
1C



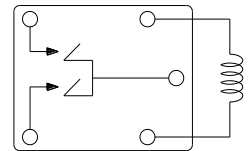
1A



1B



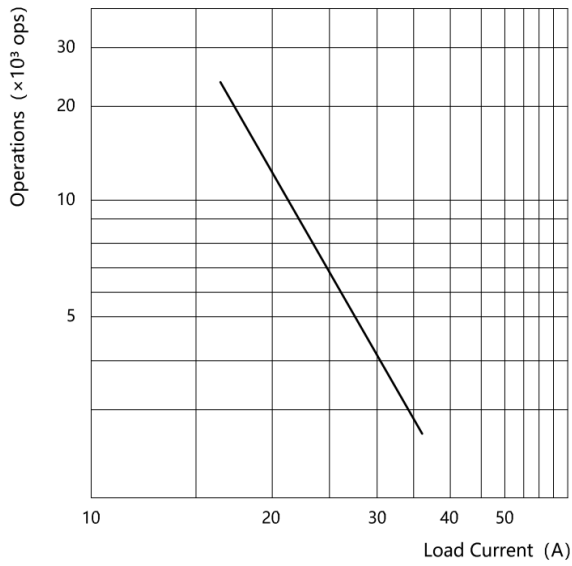
2A



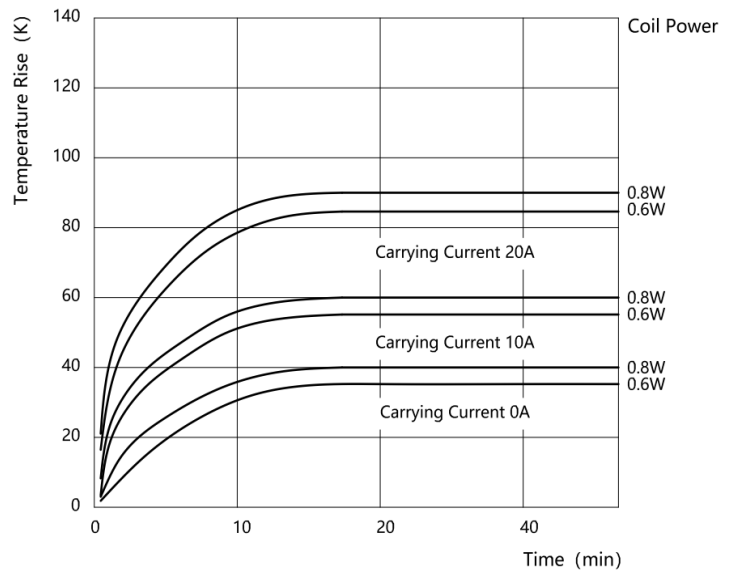
Remarks:

- The reference tolerance in outline dimension:
 - outline dimension ≤ 1 mm, reference tolerance is ± 0.2 mm;
 - outline dimension > 1 mm and ≤ 5 mm, reference tolerance is ± 0.3 mm;
 - outline dimension > 5 mm, reference tolerance is ± 0.5 mm.
- The reference tolerance for PC Board layout is ± 0.1 mm.

Electrical Endurance Curve



Temperature Rise



Disclaimer:

The specification is for reference only, if you need more detail information, please contact Churod. We could not evaluate all the performance and all parameters for every possible application. And the user should be in a right position to choose the suitable product for their own application. If there is any new need, please contact Churod for the technical service.

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