SPECIFICATIONS

RC SERIES PC BOARD RELAY

TYPE RC2V-○-D□

Coil rated voltage
Contact configuration

1. Applicable standard
   IEC61810-1
   EN61810-1 (TÜV SÜD Approval)
   UL508 (c-UL Recognition)
   CSA C22.2 No.14 (c-UL Approval)
   CQC GB/T21711.1, GB/T15092.1, GB/T15092.101

2. Operating conditions
   (1) Operating temperature  -40 to +75°C (no freezing)
   (2) Operating humidity   5 to 85%RH (no condensation)
   (3) Storage temperature  -40 to +85°C (no freezing)
   (4) Storage humidity     5 to 85%RH (no condensation)

3. Ratings
   3.1 Rated insulation voltage 250V
   3.2 Coil rating (at 20°C)
      (1) Rated voltage(DC) — (□)
      (2) Rated current (approx.)
      (3) Coil resistance (±10%)
      (4) Maximum allowable voltage

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<th>2a</th>
<th>2c</th>
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<tbody>
<tr>
<td>5V</td>
<td>81mA</td>
<td>106mA</td>
<td>33mA</td>
<td>44mA</td>
<td>17mA</td>
<td>22mA</td>
<td>9mA</td>
<td>11mA</td>
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<td>24V</td>
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<td>48V</td>
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   (5) Minimum pickup voltage (initial value) 75% maximum (2a), 70% maximum (2c)
   (6) Dropout voltage (initial value) 10% minimum
   (7) Power consumption (approx.)
      (a) 2a 5~48V DC : 400mW, 110V DC :
      (b) 2c 5~48V DC : 530mW, 110V DC :

3.3 Switching ratings
   (1) Contact ratings
      (a) Allowable switching power
      (b) Rated load

<table>
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<tr>
<th>Resitive load: 2000VA AC, 192W DC</th>
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<tbody>
<tr>
<td>Voltage</td>
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<td>Standard</td>
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(2) Allowable contact current 8A
(3) Allowable contact voltage 400V AC, 300V DC
(4) Minimum applicable load (reference value) 5V DC • 10mA
4. Constructions
   (1) Outside view See attached sheet
   (2) Degree of protection Flux-resistant type (RTII)
   (3) Contact configuration — (diamond) 2a(A), 2c(C)
   (4) Contact capacity Standard
   (5) Contact material Movable: AgSnO₂+Au
                      Fixed: AgSnO₂
   (6) Terminal style PCB terminal
   (7) Weight (approx.) 12g

5. Characteristics (initial value)
   (1) Contact resistance 100mΩ maximum
      (Note: Measured using 6V DC, 1A voltage drop method.)
   (2) Operate time 15 ms max. (at the rated voltage)
   (3) Release time 5 ms max. (at the rated voltage)
   (4) Insulation resistance 1000MΩ minimum (measured with a 500V DC megar)
   (5) Impulse voltage
      (a) Between contact circuit and coil 10,000V (impulse wave form 1.2×50μs)
   (6) Dielectric strength
      (a) Between contact circuit and coil 5000V AC for 1min.
      (b) Between contacts of different poles 3000V AC for 1min.
      (c) Between contacts of the same pole 1000V AC for 1min.
   (7) Vibration resistance
      (a) Operating extremes Frequency 10 to 55Hz, Amplitude 0.825mm
      (b) Damage limits Frequency 10 to 55Hz, Amplitude 1.65mm
   (8) Shock resistance
      (a) Operating extremes 100 m/s²
      (b) Damage limits 1000 m/s²

6. Life
   (1) Electrical life (rated load) 50,000 operations min. (250V AC/24V DC, 8A)
      (Operating frequency 600 times/hour)
   (2) Mechanical life (without load) 20,000,000 operations min.
      (Operating frequency: 18,000 times/ hour)

☐ Various Characteristic Charts (Reference)
◊ Electric life curves

RC2V (standard)
Maximum operating frequency (Electric life is not satisfied)

Operating range

Coil temperature rise