OMR series
Dry Reed Relay
Telecommunications, Office Machines.

UL File No. E82292

Features
• Low cost, small package dry reed relay.
• 1 Form A contact and 2 Form A arrangements.

Contact Data @ 20°C
Arrangements: 1 Form A (SPST-NO), 2 Form A (DPST-NO).
Material: Rh, Ru.
Max. Switching Rate: 300 ops./min. (no load).
30 ops./min. (rated load).
Expected Mechanical Life: 100 million operations (no load).
Expected Electrical Life: 1,000,000 operations (rated load).
Minimum Load: 1mA @ 1VDC.
Initial Contact Resistance: 150 milliohms @ 100mA, 6VDC.

Initial Dielectric Strength
Between Open Contacts: 200VDC. (1 second).
Surge Voltage Between Coil and Contacts: 3,000V (10 / 160µs).

Initial Insulation Resistance
Between Mutually Insulated Elements: 1,000M ohms min. @ 100VDCM.

Coil Data
Voltage: 3 to 24VDC.
Nominal Power: 100 mW to 280mW.
Coil Temperature Rise: 30°C max., at rated coil voltage.
Max. Coil Power: 160% of nominal.
Duty Cycle: Continuous.

Contact Data @ 20°C

<table>
<thead>
<tr>
<th>OMR</th>
<th>Rated Coil Voltage (VDC)</th>
<th>Nominal Current (mA)</th>
<th>Coil Resistance (ohms) ± 10%</th>
<th>Must Operate Voltage (VDC)</th>
<th>Must Release Voltage (VDC)</th>
</tr>
</thead>
<tbody>
<tr>
<td>OMR-F</td>
<td>8</td>
<td>47.6</td>
<td>63</td>
<td>2.10</td>
<td>0.30</td>
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<tr>
<td></td>
<td>5/6</td>
<td>24.0</td>
<td>250</td>
<td>3.50</td>
<td>0.50</td>
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<td>9</td>
<td>12.9</td>
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<td>6.30</td>
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<td>12</td>
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Operate Data
Must Operate Voltage: 70% of nominal voltage or less.
Must Release Voltage: 10% of nominal voltage or more.
Operate Time: 1.0 ms max.
Release Time: 0.5 ms max.

Environmental Data
Temperature Range:
Operating: -30°C to +70°C
(no water condensation and no water drop.)
Vibration, Mechanical: 10 to 55 Hz., 1.5mm double amplitude
Operational: 10 to 55 Hz., 1.5mm double amplitude.
Shock, Mechanical: 1,000m/s² (10G approximately).
Operational: 100m/s² (10G approximately).
Operating Humidity: 20 to 85% RH.

Initial Dielectric Strength
Between Open Contacts: 200VDC. (1 second).
Surge Voltage Between Coil and Contacts: 3,000V (10 / 160µs).

Initial Insulation Resistance
Between Mutually Insulated Elements: 1,000M ohms min. @ 100VDCM.

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Ordering Information

- **Typical Part Number**
- **OMR**
- **-C**
- **-1**
- **12**
- **H**

1. **Basic Series:**
   OMR = Dry Reed Relay.

2. **Enclosure:**
   - Blank = Open, no cover.
   - C = Snap-on dust cover.

3. **Termination:**
   - 1 = 1 pole
   - 2 = 2 pole

4. **Coil Voltage:**
   - 03 = 3VDC
   - 09 = 9VDC
   - 24 = 24VDC
   - 06 = 6VDC
   - 12 = 12VDC

5. **Contact Rating:**
   - H = 0.5A @ 120VAC
   - F = 1A @ 120VAC

Outline Dimensions

**Open Type, 1 Form A**

**Open Type, 2 Form A**

**Snap-on Dust Cover Type, 1 Form A**

**Snap-on Dust Cover Type, 2 Form A**

Wiring Diagrams (Bottom View)

**1 Form A**

**2 Form A**

PC Board Layout (Bottom View)

**1 Form A**

**2 Form A**