

## Features

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


## Contact Data @ $20^{\circ} \mathrm{C}$

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.

## Contact Ratings

## Ratings:

$100 \mu \mathrm{~A} @ 5 \mathrm{VDC}, 100,000,000$ operations.
1mA @ 5VDC, 50,000,000 operations.
5mA @ 5VDC, 50,000,000 operations.
5mA @ 12VDC, 50,000,000 operations.
10mA @ 12VDC, 50,000,000 operations.
100mA @ 12VDC, 10,000,000 operations.
100mA @ 24VDC, 7,000,000 operations.
200mA @ 24VDC, 7,000,000 operations.
400mA @ 24VDC, 5,000,000 operations.
Max. Switched Voltage: AC: 120V.
DC: 60V.
Max. Switched Current: 0.5A
Max. Switched Power: 10VA, 10W.

## Initial Dielectric Strength

Between Open Contacts: 200VDC. (1 second).
Between Coil and Contacts: 3,000VDC. (1 second).
Surge Voltage Between Coil and Contacts: 3,000V (10 / 160 $\mu \mathrm{s}$ ).

## Initial Insulation Resistance

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

# OM R series <br> <br> Dry Reed Relay 

 <br> <br> Dry Reed Relay}

## Telecommunications, Office Machines.

미 File No. E82292


#### Abstract

Users should thoroughly review the technical data before selecting a product part number. It is recommended that user also seek out the pertinent approvals files of the agencies/laboratories and review them to ensure the product meets the requirements for a given application.


## Coil Data

Voltage: 6 to 24VDC
Nominal Power: 100 mW to 280 mW .
Coil Temperature Rise: $30^{\circ} \mathrm{C}$ max., at rated coil voltage.
Max. Coil Power: 160\% of nominal.
Duty Cycle: Continuous.

Coil Data @ $\mathbf{2 0}^{\circ} \mathrm{C}$

| OMR |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Rated Coil <br> Voltage <br> (VDC) | Nominal <br> Current <br> (mA) | Coil <br> Resistance <br> (ohms) $\pm \mathbf{1 0 \%}$ | Must Operate <br> Voltage <br> (VDC) | Must Release <br> Voltage <br> (VDC) |
| $5 / 6$ | 24.0 | 250 | 3.50 | 0.50 |
| 9 | 12.9 | 700 | 6.30 | 0.90 |
| 12 | 11.4 | 1,050 | 8.40 | 1.20 |
| 24 | 11.5 | 2,080 | 16.80 | 2.40 |

## 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: $-30^{\circ} \mathrm{C}$ to $+70^{\circ} \mathrm{C}$
Vibration, Mechanical: 10 to 55 Hz ., 1.5 mm double amplitude
Operational: 10 to 55 Hz ., 1.5 mm double amplitude.
Shock, Mechanical: $1,000 \mathrm{~m} / \mathrm{s}^{2}$ ( 100 G approximately).
Operational: $100 \mathrm{~m} / \mathrm{s}^{2}$ ( 10 G approximately).
Operating Humidity: 20 to $85 \%$ RH. (Non-condensing)

[^0]

Our authorized distributors are more likely to stock the following items for immediate delivery.
None at present.

## Outline Dimensions

## Open Type, 1 Form A



Snap-on Dust Cover Type,
1 Form A


Wiring Diagrams (Bottom View)

1 Form A


2 Form A


Open Type, 2 Form A


Snap-on Dust Cover type,
2 Form A


## PC Board Layout (Bottom View)

1 Form A


2 Form A



[^0]:    Mechanical Data
    Termination: Printed circuit terminals.
    Enclosure ( $94 \mathrm{~V}-\mathbf{0}$ Flammability Ratings): OMR: Open, no cover.
    OMR-C: Snap-on dust cover.
    Weight: $0.16 \mathrm{oz}(4.5 \mathrm{~g})$ approximately.

