

#### Features

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

# 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.

**OMR** series

**Dry Reed Relay** 

**File No. E82292** 

#### Coil Data

Voltage: 6 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.

Telecommunications, Office Machines.

Users should thoroughly review the technical data before selecting a product part

# 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.

# **Contact Ratings**

#### Ratings:

100μA @ 5VDC, 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 / 160µs).

#### Coil Data @ 20°C

OMR								
Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance (ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (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°C to +70°C Vibration, Mechanical: 10 to 55 Hz., 1.5mm double amplitude Operational: 10 to 55 Hz., 1.5mm double amplitude. Shock, Mechanical: 1,000m/s<sup>2</sup> (100G approximately). Operational: 100m/s<sup>2</sup> (10G approximately). Operating Humidity: 20 to 85% RH. (Non-condensing)

### **Initial Insulation Resistance**

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

#### Mechanical Data

Termination: Printed circuit terminals. Enclosure (94V-0 Flammability Ratings): OMR: Open, no cover. OMR-C: Snap-on dust cover. Weight: 0.16 oz (4.5g) approximately.

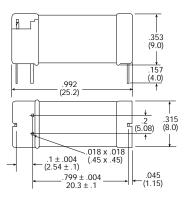
Dimensions are in inches over (millimeters) unless otherwise specified Specifications and availability subject to change.

Electronics	Catalog 1308242 Issued 3-03						OEG
Ordering Information							
	Typical Part Number 🕨	OMR	-C	-1	12	н	,000
1. Basic Series: OMR = Dry Reed Relay.							
2. Enclosure: Blank = Open, no cover. C = Snap-on dust cover.							
<b>3. Termination:</b> 1 = 1 pole	2 = 2 pole			-			
<b>4. Coil Voltage:</b> 06 = 6VDC 09 = 9VDC	12 = 12VDC 24 = 24VDC				1		
<b>5. Contact Rating:</b> H = 0.5A @ 120VAC						1	
6. Suffix: ,000 = Standard model	Other Suffix = Custom model						L

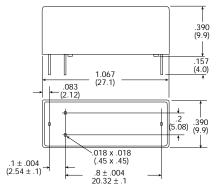
Our authorized distributors are more likely to stock the following items for immediate delivery. None at present.

# Outline Dimensions

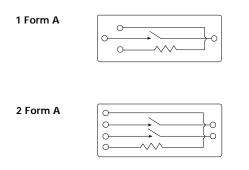
# Open Type, 1 Form A



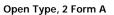
### Snap-on Dust Cover Type, 1 Form A

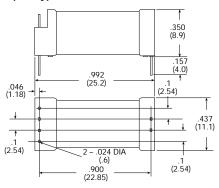


# Wiring Diagrams (Bottom View)

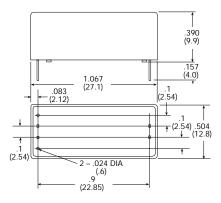


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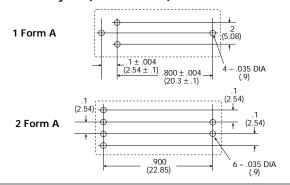




#### Snap-on Dust Cover type, 2 Form A



PC Board Layout (Bottom View)



Specifications and availability subject to change.