

OSZ series

1 Pole Miniature Power PC Board Relay

Appliances, HVAC, Office Machines

91 UL File No. E58304 (f) CSA File No. LR48471

Coil Data @ 20°C

Features

• Meet UL Tungsten TV-5 and TV-8 rating.

- 1 Form A contact arrangements.
- Immersion cleanable, sealed version available.
- Meet 4,000V dielectric voltage between coil and contacts.
- Meet 7,000V surge voltage between coil and contacts (1.2 / 50µs).

Contact Data @ 20°C

Arrangements: 1 Form A (SPST-NO). Material: AgSnO. Max. Switching Rate: 300 ops./min. (no load). 30 ops./min. (rated load). Expected Mechanical Life: 10 million operations (no load). Expected Electrical Life: 100,000 operations (rated load). Minimum Load: 100mA @ 5VDC. Initial Contact Resistance: 100 milliohms @ 1A, 6VDC.

Contact Ratings

Ratings: OSZ-DM5: 10A @ 240VAC resistive, 10A @ 24VDC resistive, TV-5 @ 120VAC Tungsten, 25,000ops.

> OSZ-DM8: 16A @ 240VAC resistive, 16A @ 24VDC resistive, TV-8 @ 120VAC Tungsten, 25,000ops.

Max. Switched Voltage: AC: 240V. DC: 24V.

Max. Switched Current: 10A (DM5), 16A (DM8). Max. Switched Power: 2,400VA, 380W.

Initial Dielectric Strength

Between Open Contacts: 1,000VAC 50/60 Hz. (1 minute). Between Coil and Contacts: 4,000VAC 50/60 Hz. (1 minute). Surge Voltage Between Coil and Contacts: 7,000V (1.2 / 50µs).

Initial Insulation Resistance

Between Mutually Insulated Elements: 1,000M ohms min. @ 500VDCM.

Coil Data

Voltage: 3 to 48VDC. Nominal Power: 540 mW Coil Temperature Rise: 55°C max., at rated coil voltage. Max. Coil Power: 130% of nominal. Duty Cycle: Continuous.

OSZ									
Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance (ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)					
3	176.5	17	2.25	0.15					
5	106.4	47	3.75	0.25					
6	88.0	68	4.50	0.30					
9	58.0	155	6.75	0.45					
12	44.4	270	9.00	0.60					
24	21.8	1,100	18.00	1.20					
48	11.0	4,400	36.00	2.40					

Operate Data

Must Operate Voltage: 75% of nominal voltage or less. Must Release Voltage: 5% of nominal voltage or more. Operate Time: 20 ms max. Release Time: 10 ms max.

Environmental Data

Temperature Range: Operating:-30°C to +65°C Vibration, Mechanical: 10 to 55 Hz., 1.5mm double amplitude Operational: 10 to 55 Hz., 1.5mm double amplitude. Shock, Mechanical: 1,000m/s² (100G approximately). Operational: 100m/s² (10G approximately). Operating Humidity: 20 to 85% RH. (Non-condensing).

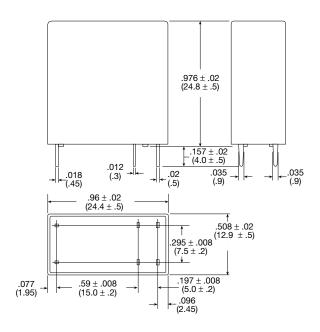
Mechanical Data

Termination: Printed circuit terminals. Enclosure (94V-0 Flammability Ratings): OSZ-SS: Vented (Flux-tight) plastic cover. OSZ-SH: Sealed plastic case. Weight: 0.45 (13g) approximately.

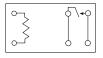
OEG SUNSTAR传感与控	制 http://www.sensor-ic	OSZ Series R	Elays	755-8337	5182E-MAL	1 · \$7\$\$2	Catal	og 130896 _m Issued 6-
Ordering Information	Typical Part Number	007	-SS	-1	12	D	Μ	8
1. Basic Series: OSZ = Miniature Power F	PC board relay.							
2. Enclosure: SS = Vent (Flux-tight)* pla SH = Sealed, plastic case								
3. Termination: 1 = 1 pole				_				
4. Coil Voltage: 03 = 3VDC 06 = 6V 05 = 5VDC 09 = 9V		48 = 48VDC						
5. Coil Input: D = Standard						J		
6. Contact Arrangement: M = 1 Form A, SPST-NO.								
7. Contact Rating: 5 = TV-5 rating (DM5)	8 = TV-8 rating (DM8)							-

* Not suitable for immersion cleaning processes.

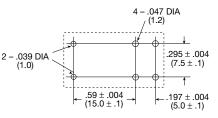
Outline Dimensions



Wiring Diagram (Bottom View)

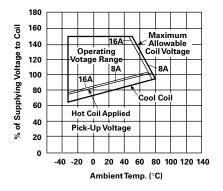


PC Board Layout (Bottom View)

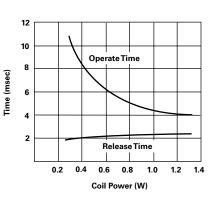


Reference Data

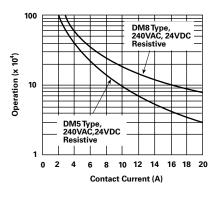
Coil Temperature Rise



Operate Time



Life Expectancy



Note: This data is based on the max. allowable temperature for E type insulation coil (115°C).

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