

OSA series

2 Pole Miniature Power PC Board Relay

Appliances, Audio Equipment, Office Machines

UL File No. E82292
CSA File No. LR48471
SEMKO File No. 9452086 (available for DM5)
TUV File No. R9551879 (available for DM5)

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 @ 20°C

Features

- Meet UL TV-3 and CSA TV-4 rating available for DM5 type.
- 2 Form A contact arrangements.
- Immersion cleanable, sealed version available.
- Meet 3,000V dielectric voltage between coil and contacts.
- Meet 5,000V surge voltage between coil and contacts (1.2 / 50 μ s).

Contact Data @ 20°C

Arrangements: 2 Form A (DPST-NO). Material: Ag-GS Alloy (DM3) and AgSnO (DM5). 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: OSA-DM3: 1mA @ 1VDC. OSA-DM5: 100mA @ 5VDC.

Initial Contact Resistance: 50 milliohms @ 1A, 6VDC.

Contact Ratings

Ratings: OSA-DM3: 3A @ 120VAC resistive, 3A @ 24VDC resistive,

OSA-DM5: 5A @ 240VAC resistive, 5A @ 30VDC resistive, TV-3 @ 120VAC Tungsten (UL), TV-4 @ 120VAC Tungsten (CSA). Max. Switched Voltage: OSA-DM3: AC: 240V.DC: 50V. OSA-DM5: AC: 250V.DC: 30V. Max. Switched Current: 5A Max. Switched Power: OSA-DM3: 300VA. OSA-DM5: 1,100VA.

Initial Dielectric Strength

Between Open Contacts: 1,000VAC 50/60 Hz. (1 minute). Between Coil and Contacts: 3,000VAC 50/60 Hz. (1 minute). Surge Voltage Between Coil and Contacts: 5,000V (1.2 / 50µs)

Initial Insulation Resistance Between Mutually Insulated Elements: 1,000M ohms min. @ 500VDC

Coil Data

Voltage: 5 to 48VDC. Nominal Power: 540 mW Coil Temperature Rise: 50°C max., at rated coil voltage. Max. Coil Power: 130% of nominal. Duty Cycle: Continuous.

Dimensions are shown for reference purposes only.

Dimensions are in inches over (millimeters) unless otherwise specified.

OSA Rated Coil Must Release Nominal Coil Must Operate Voltage Voltage Voltage Resistance Current (VDČ) (ohms) ± 10% (mA) (VDC) (VDC) 5 106.4 47 3.75 0.50 88.0 4.50 0.60 6 9 68 58.0 155 6.75 0.90 12 44.4 270 9.00 1.20 21.8 1,100 18.00 2.40 24 48 4.400 4.80 11.0 36.00

Operate Data

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

Environmental Data

Temperature Range: Operating:-30°C to +60°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): OSA-SS: Vented (Flux-tight) plastic cover. OSA-SH: Sealed plastic case. Weight: 0.46 oz (13g) approximately.

Specifications and availability subject to change.

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		Typical Part Number 🕨	OSA	-SS	-2	24	D	M	3	,0
1. Basic Series: OSA = Miniatur	e Power PC board re									
2. Enclosure: SS = Vent (Flux SH = Sealed, pl	-tight)* plastic cover. astic case.			_						
3. Termination: 2 = 2 pole					J					
4. Coil Voltage: 05 = 5VDC 06 = 6VDC	09 = 9VDC 12 = 12VDC	24 = 24VDC 48 = 48VDC				1				
5. Coil Input: D = Standard]			
6. Contact Arrang M = 2 Form A,								1		
7. Contact Rating 3 = 3A @ 120VA	: AC resistive (DM3).	5 = 5A @ 240VAC resistive (DN	15).						_	

* Not suitable for immersion cleaning processes.

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

