

OSA series

2 Pole Miniature Power PC Board Relay

Appliances, Audio Equipment, Office Machines

Ы	UL	File	No.	E82292
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SA 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 / 50µs).

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	
470	reference purposes only.	

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

OSA							
Rated CoilNominalVoltageCurrent(VDC)(mA)		Coil Resistance (ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)			
5			3.75	0.50			
6	88.0	68	4.50	0.60			
9	58.0 44.4	155 270	6.75 9.00	0.90 1.20			
24	21.8	1,100	18.00	2.40			
48 11.0		4,400	36.00	4.80			

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.

Downloaded from Arrow.com.

Electronics			og 1308242 ued 3-03							OE
Ordering Informatio	on	Typical Part Number 🕨	OSA	-SS	-2	24	D	М	3	,000
1. Basic Series: OSA = Miniature Pov	ver PC board re	elay.								
2. Enclosure: SS = Vent (Flux-tight) SH = Sealed, plastic				_						
3. Termination: 2 = 2 pole					J					
	= 9VDC = 12VDC	24 = 24VDC 48 = 48VDC				1				
5. Coil Input: D = Standard							J			
6. Contact Arrangeme M = 2 Form A, DPST]		
7. Contact Rating: 3 = 3A @ 120VAC res	sistive (DM3).	5 = 5A @ 240VAC resistive (DN	<i>I</i> 15).							
8. Suffix: ,000 = Standard mod	lel Other S	uffix = Custom model								

* 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.

