



Features

- Meet UL 508, VDE0435, SEMKO and SEV requirements.
- 1 Form A contact arrangements.
- UL TV-5 rating available.
- Immersion cleanable, sealed version available.
- Meet 5,000V dielectric voltage between coil and contacts.
- Meet 10,000V surge voltage between coil and contacts (1.2 / 50μs).

Contact Data @ 20°C

Arrangements: 1 Form A.

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: 10A @ 240VAC resistive,

TV-5 @ 120VAC tungsten 25,000ops.

Max. Switched Voltage: AC: 240V. DC: 30V. Max. Switched Current: 10A

Max. Switched Power: 2,400VA, 300W.

Initial Dielectric Strength

Between Open Contacts: 1,000VAC 50/60 Hz. (1 minute). Between Coil and Contacts: 5,000VAC 50/60 Hz. (1 minute). Surge Voltage Between Coil and Contacts: 10,000V (1.2 / 50µs).

Initial Insulation Resistance

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

Coil Data

Voltage: 3 to 48VDC.

Nominal Power: 720 mW (OMI-D), 540mW (OMI-L).

Coil Temperature Rise: 45°C max., at rated coil voltage (OMI-D). 35°C max., at rated coil voltage (OMI-L).

Max. Coil Power: 130% of nominal.

Duty Cycle: Continuous.

OMIT series

10A Miniature **Power PC Board Relay**

Appliances, HVAC, Office Machines.

A UL File No. E58304

CSA File No. LR48471

VDE VDE File No. 6678

(S) SEMKO File No. 8713114

(**‡**) SEV File No. 97550375

Coil Data @ 20°C

OMIT-L Sensitive								
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	0.90				
24	21.8	1,100	18.00	1.20				
48	10.9	4,400	36.00	2.40				

OMIT-D Standard

Rated Coil Voltage (VDC)	Nominal Current (mA)	Current Resistance		Must Release Voltage (VDC)			
3	240.0	12.5	2.10	0.15			
5	138.9	36	3.50	0.25			
6	120.0	50	4.20	0.30			
9	78.3	115	6.30	0.45			
12	60.0	200	8.40	0.90			
24	29.3	820	16.80	1.20			
48	14.5	3,300	33.60	2.40			

Operate Data

Must Operate Voltage:

OMIT-D: 70% of nominal voltage or less. OMIT-L: 75% of nominal voltage or less. Must Release Voltage: 5% of nominal voltage or more.

Operate Time: OMIT-D: 15 ms max.

OMIT-L: 20 ms max.

Release Time: 8 ms max.

Environmental Data

Temperature Range: Operating: OMT-D:

-30°C to +55°C OMT-L: -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/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): OMIT-SS: Vented (Flux-tight) plastic cover.

OMIT-SH: Sealed plastic case. Weight: 0.46 oz (13g) approximately.

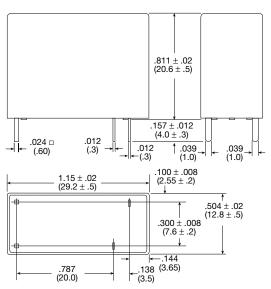
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Ordering Information

Ordering information							
	Typical Part Number	OMIT	-SS	-1	12	L	M
1. Basic Series: OMIT = Miniature Sealed PC							
2. Enclosure: SS = Vent (Flux-tight)* plastic cover. SH = Sealed, plastic case.							
3. Termination: 1 = 1 pole				-			
4. Coil Voltage: 03 = 3VDC 06 = 6VDC 05 = 5VDC 09 = 9VDC	12 = 12VDC 24 = 24VDC	48 = 48VDC					
5. Coil Input: D = Standard (720mW)	_ = Sensitive (540mW)						
6. Contact Arrangement: Blank = 1 Form C, SPDT	M = 1 Form A, SPST-NO						

^{*} Not suitable for immersion cleaning processes.

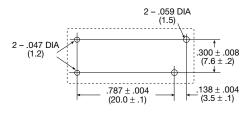
Outline Dimensions



Wiring Diagram (Bottom View)

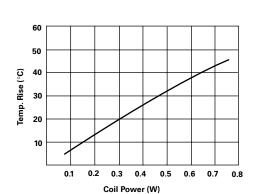


PC Board Layout (Bottom View)

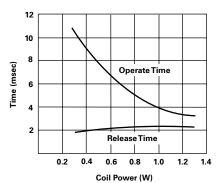


Reference Data

Coil Temperature Rise



Operate Time



Life Expectancy

