OMIT series

10A Miniature Power PC Board Relay

Appliances, HVAC, Office Machines.

♥ UL File No. E58304
♥ CSA File No. LR48471
♥ VDE File No. 6678
♥ SEMKO File No. 8713114
♥ SEV File No. 97550375

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 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. @ 500VDC.

Coil Data

Voltage: 5 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.

Dimensions are shown for

Dimensions are in inches over (millimeters) unless otherwise specified

Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance (ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)		
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		
40	10.9	.,		2.40		

OMIT-L Sensitive

OMIT-D Standard							
Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance (ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)			
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 (100G 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.

> Specifications and availability subject to change.

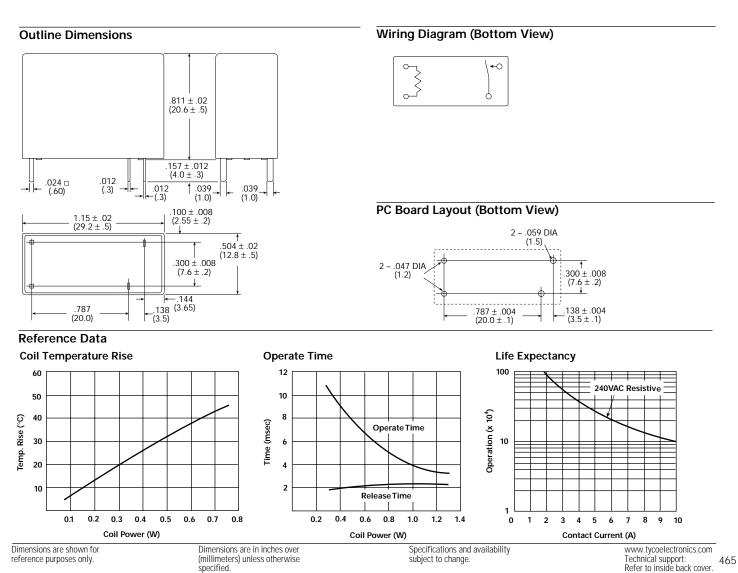


OEG

Ordering Information								
-	Typical Part Number 🕨	OMIT	-SS	-1	12	L	Μ	,300
1. Basic Series: OMIT = Miniature Sealed PC Board Relay								
2. Enclosure: SS = Vent (Flux-tight)* plastic cover. SH = Sealed, plastic case.								
3. Termination : 1 = 1 pole								
4. Coil Voltage: 05 = 5VDC 09 = 9VDC 24 = 2 06 = 6VDC 12 = 12VDC 48 = 4								
5. Coil Input: D = Standard (720mW) L = Sensitive (540)mW)				,			
6. Contact Arrangement: Blank = 1 Form C, SPDT M = 1 Form A, SF	PST-NO							
7. Suffix: ,300 = Standard model for "SS" enclosure	,394 = Standard model for "SI	H" enclosure		Other S	Suffix = C	ustom m	odel	

* Not suitable for immersion cleaning processes.

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



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