深圳市泰科讯数码技术有限公司 TYCOONSHIP SHENZHEN TYCOONSHIP DIGITAL TECHNOLOGY CO., LTD.



OZ/OZF series

16A Miniature Power PC Board Relay

Appliances, HVAC, Office Machines.

AJ UL File No. E82292 CSA File No. LR48471 **A** TUV File No. R85447

Coil Data @ 20°C

Features

- Meet UL 508, CSA and TUV requirements.
- 1 Form A and 1 Form C contact arrangements.
- 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).
- Quick Connect Terminal type available (OZF).
- UL TV-8 rating available (OZT).

Contact Data @ 20°C

Arrangements: 1 Form A (SPST-NO) and 1 Form C (SPDT). Material: Ag Alloy (1 Form C) and AgSnO (1 Form A). 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: OZ/OZF: 20A @ 120VAC resistive, 16A @ 240VAC resistive, 5A @ 120VAC inductive (cosø= 0.4), 5A @ 24VDC inductive (L/R= 7msec).

> OZT: 8A @ 240VAC resistive, TV-8 @ 120VAC tungsten, 25,000ops.

Max. Switched Voltage: AC: 240V.

DC: 110V Max. Switched Current: 16A (OZ/OZF), 8A (OZT). Max. Switched Power: 3,850VA, 600W.

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 (OZ-D), 540mW (OZ-L). Coil Temperature Rise: 45°C max., at rated coil voltage. Max. Coil Power: 130% of nominal. Duty Cycle: Continuous.

	OZ-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	0.60		
24	21.8	1,100	18.00	1.20		
48	10.9	4,400	36.00	2.40		

		OZ-D Standa	ard			
Rated Coil Voltage (VDC)	Nominal Current (mA)Coil Resistance(ohms) ± 10%		Must Operate Voltage (VDC)	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:

OZ-D: 70% of nominal voltage or less.

OZ-L: 75% of nominal voltage or less.

Must Release Voltage: 5% of nominal voltage or more.

Operate Time: OZ-D: 15 ms max.

OZ-L: 20 ms max. Release Time: 8 ms max.

Environmental Data

Temperature Range: Operating: OZ-D: -30°C to +55°C OZ-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): OZ-S: Vented (Flux-tight) plastic cover. OZF-SS: Vented (Flux-tight) plastic cover. OZ-SH: Sealed plastic case. Weight: 0.46 oz (13g) approximately.

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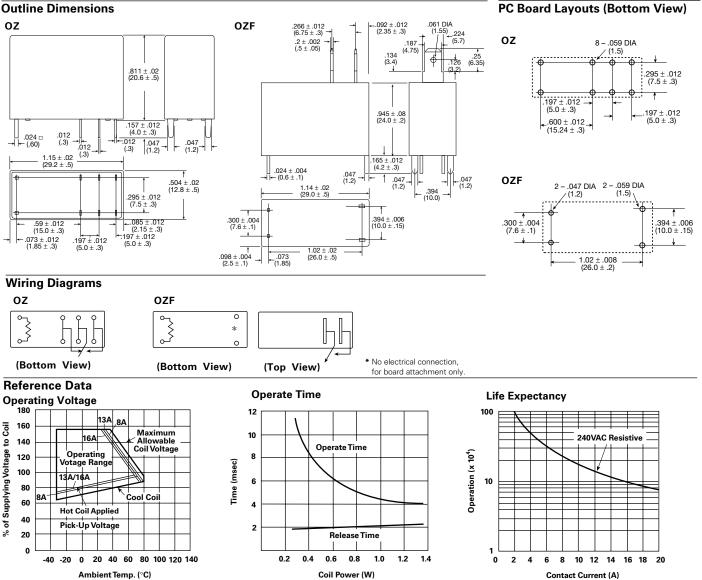
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	Ту	pical Part Number	► OZ	-SS	-1	24	L	M	1	
OZF = Quick Q	: Board Terminals Connect Terminals ating PC Board Term	iinals								
	x-tight)* plastic cov	er (only available with er.	OZF)							
3. Termination: 1 = 1 pole					-					
4. Coil Voltage: 03 = 3VDC 05 = 5VDC	06 = 6VDC 09 = 9VDC	12 = 12VDC 24 = 24VDC	48 = 48VDC							
5. Coil Input: D = Standard ((720mW)	L = Sensitive (54	l0mW)				_			
6. Contact Arrar Blank = 1 Forn		M = 1 Form A, S	SPST-NO							
7. Contact Mate Blank = AgCd0		1 = AgSnO (1 Fo	orm A, only available v	with OZLM	1 or DM1)				_	
8. Mounting and Blank = PC Bo		P = PC Board ar	d Quick Connect Terr	minals (only a	vailable on	ly with OZI	F-S-1LM1P).		
* Net eviteble for imm										

* Not suitable for immersion cleaning processes

Outline Dimensions



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Contact Current (A)