

OUDHseries

10 Amp Miniature, Sealed PC Board Relay

Appliances, HVAC, Office Machines.

FL UL File No. E58304 © CSA File No. LR48471

Features

- Low profile miniature power relay
- High density available on PC board due to small size
- 450mW coil available.
- · Meets 2kV dielectric between coil and contacts.
- Meets 5kV surge voltage.
- · Immersion cleanable, sealed version available

Contact Data @ 20°C

Arrangements: 1 Form A (SPST-NO), 1 Form C (SPDT).

Material: Ag Alloy

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 @ 120VAC resistive

10A @ 28VDC resistive, 1/4 HP @ 120VAC.

3A @ 120VAC inductive (cosø= 0.4), 3A @ 28VDC inductive (L/R= 7msec)

Max. Switched Voltage: AC: 240V. DC: 110V

Max. Switched Current: 10A Max. Switched Power: 1,200VA, 300W.

Initial Dielectric Strength

Between Open Contacts: 750VAC 50/60 Hz. (1 minute). Between Coil and Contacts: 2,000VAC 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. @ 500VDCM.

Coil Data

Voltage: 3 to 48VDC

Nominal Power: 450mW except 48VDC coil (660mW) Coil Temperature Rise: 60°C max., at rated coil voltage.

Max. Coil Power: 130% of nominal

Duty Cycle: Continuous

Coil Data @ 20°C

OUDH				
Rated Coil Voltage (VDC)	Nominal Current (mA)	Coil Resistance (ohms) ± 10%	Must Operate Voltage (VDC)	Must Release Voltage (VDC)
3 6 9 12 24 48	150.0 75.0 50.0 37.5 20.9 13.7	20 80 180 320 1,280 3,500	2.25 4.50 6.75 9.00 18.00 36.00	0.30 0.60 0.90 1.20 2.40 4.80
36.	表彰	'CU		
Operate Da	ata			
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Must Operate Voltage: 75% of nominal voltage or less. Must Release Voltage: 10% of nominal voltage or more.

Operate Time: 10 ms max. Release Time: 5 ms max.

Environmental Data

Temperature Range:

Operating: -30°C to +60°C

(no water condensation and no water drop.) 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.

Mechanical Data

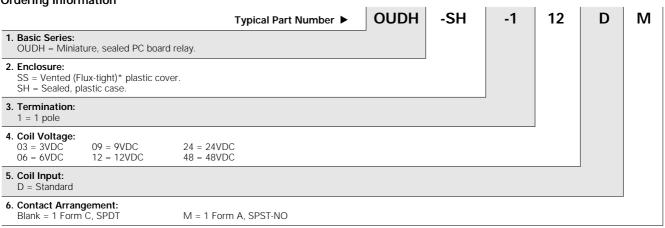
Termination: Printed circuit terminals. Enclosure (94V-0 Flammability Ratings): OUDH-SS: Vented (Flux-tight), plastic cover.

OUDH-SH: Sealed, plastic case.

Weight: 10g approximately.



Ordering Information



^{*} Not suitable for immersion cleaning processes.

Wiring Diagram (Bottom View) **Outline Dimensions** 15.3 ± 0.3 3.5 ± 0.3 **←**0.45 0.30 **←** 1.70 - 5.08 - 12.70 2.15 ± 0.2 21.80 ± 0.3 PC Board Layout (Bottom View) 2.15 ± 0.2 7.62 ± 0.3 7.62 ± 0.3 5.08 ± 0.3 5.08 ± 0.3 - 5.08 - 12.70 →

