

ORWH series

10 Amp Miniature Power PC Board Relay

CNUS File No. E82292



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.

ORWH

Coil Data @ 20°C

atures

- Compact relay with 1 Form A and 1 Form C contact arrangements.
- 10 Amp switching capacity
- Flux-tight or sealed version available.
- · Applications include appliance, HVAC, security system, garage opener control, emergency lighting

Contact Data @ 20°C

Arrangements: 1 Form A (SPST-NO) and 1 Form C (SPDT) Material: AgCdO. Max. Switching Rate: 300 ops./min. (no load) 20 ops./min. (rated load). Expected Mechanical Life: 10 million operations (no load).

Expected Electrical Life: 100,000 operations at 10A @ 250VAC res. (NO). Minimum Load: 100mA @ 5VDC Initial Contact Resistance: 100 milliohms @ 1A, 6VDC.

Contact Ratings

Ratir /NC) 10A/6A @ 28VDC resistive (NO/NC), 15A @ 120VAC resistive (NO), 15A @ 28VDC resistive (NO), 10A @ 277VAC resistive (NO). Max. Switched Voltage: AC: 277V. DC: 30V. Max. Switched Current: 15A Max. Switched Power: 2,770VA, 360W.

Initial Dielectric Strength

Initial Insulation Resistance

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

Coil Data @ 20°C

Voltage: 3 to 48VDC. Nominal Power: 360 mW Max. Coil Power: 130% of nominal. Duty Cycle: Continuous.

Mechanical Data

Termination: Printed circuit terminals. Enclosure (94V-0 Flammability Ratings): ORWH-SS: Vented (flux-tight) cover. ORWH-SH: Sealed plastic case. Note: Vent nib should be removed after soldering and cleaning. Weight: 0.33 oz (9.5g) approximately.

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ngs:	10A/6A @ 250VAC resistive	(NO/

Between Open Contacts: 750VAC 50/60 Hz. (1 minute). Between Coil and Contacts: 1,500VAC 50/60 Hz. (1 minute). Surge Voltage Between Coil and Contacts: 3,000V (1.2 / 50µs).

TEL: 0755-833764890=FAXti0755-83076182 E-MAIL: szss2001/69/t/top/ectronics.com subject to change. Refer to inside back cover

Rated Coil Nominal Coil Must Operate Must Release Voltage Current Resistance Voltage Voltage (VDČ) (mA) (ohms) ± 10% (VDC) (VDC) 120.0 21 0.3 3 25 70 3.5 5 0.5 714 6 9 60.0 100 4.2 0.6 225 6.3 09 44 4 12 40.0 400 84 12 24 15.0 1,600 16.8 2.4 48 75 6.400 33.6 48

Operate Data

Must Operate Voltage: 70% 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 +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)

	rmation T	ypical Part Number	► ORWH	-SS	-1	12	D	М	,N000
1. Basic Series: ORWH = Min	: iature Power PC boa	ard relay.							
2. Enclosure: SS = Vented ([flux-tight)* plastic ca	ase. SH = Se	ealed plastic case						
3. Number of P 1 = 1 pole	oles:								
4. Coil Voltage: 03 = 3VDC 05 = 5VDC	06 = 6VDC 09 = 9VDC	12 = 12VDC 24 = 24VDC	48 = 48VDC			1			
5. Coil Input:						,			
D = Standard									

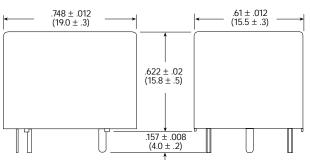
7. Option: ,N000= Standard model. Other Suffix = Custom model.

* Not suitable for immersion cleaning

Our authorized distributors are more likely to maintain the following items in stock for immediate delivery.

ORWH-SH-112DM,N000 ORWH-SH-109D,I ORWH-SH-124DM,N000 ORWH-SH-112D,I ORWH-SH-105D,N000 ORWH-SH-124D,I ORWH-SH-106D,N000 ORWH-SH-148D,I	000 ORWH-SS-124DM,N000 000 ORWH-SS-148DM,N000	ORWH-SS-106D,N000 ORWH-SS-109D,N000 ORWH-SS-112D,N000 ORWH-SS-124D,N000	ORWH-SS-148D,N000
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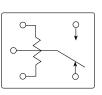
Outline Dimensions



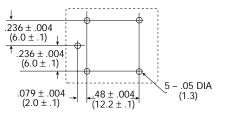
TERMINAL DIMENSIONS: COIL: 0.024 (0.6) DIA. LOAD: 0.12 x 0.35 (0.3 x 0.9)

> Note: Only necessary terminals are present on 1 Form A models.

Wiring Diagram (Bottom View)



PC Board Layout (Bottom View)



Socket

27E1064 socket is rated 10A @ 300VAC. UL Recognized for US and Canada. Designed to fit same suggested board layout as relay.

