

Features

- Meet UL 508, VDE0435 and SEMKO 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)

Contact Data @ 20°C

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

Material: Ag Alloy (OMI), AgSnO (OMIH). 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: OMI: 10A @ 240VAC resistive,

10A @ 30VDC resistive,

3A @ 240VAC inductive (cosø= 0.4), 3A @ 30VDC inductive (L/R=7msec).

OMIH:16A @ 240VAC resistive, 16A @ 30VDC resistive,

4A @ 240VAC inductive (cosø= 0.4), 4A @ 24VDC inductive (L/R=7msec)

Max. Switched Voltage: AC: 250V

DC: 30V.

Max. Switched Current: 10A (OMI), 16A (OMIH) Max. Switched Power: OMI: 2,400VA, 300W

OMIH: 3,800VA, 480W

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.

Max. Coil Power: 130% of nominal.

Duty Cycle: Continuous.

OMI/OMIH series

16A Miniature **Power PC Board Relay**

Appliances, HVAC, Office Machines.

A UL File No. E58304

SE CSA File No. LR48471

VDE VDE File No. 6678

S SEMKO File No. 9517235 (OMI)

9143112 (OMIH)

OEG

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

OMI/OMIH-L Sensitive						
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	0.50		
6	88.0	68	4.50	0.60		
9	58.0	155	6.75	0.90		
12	44.4	270	9.00	1.20		
24	21.8	1,100	18.00	2.40		
48	10.9	4,400	36.00	4.80		

OMI/OMIH-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	0.50		
6	120.0	50	4.20	0.60		
9	78.3	115	6.30	0.90		
12	60.0	200	8.40	1.20		
24	29.3	820	16.80	2.40		

33.60

4.80

Operate Data

48

Must Operate Voltage:

OMI/OMIH-D: 70% of nominal voltage or less. OMI/OMIH-L: 75% of nominal voltage or less

3,300

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

Operate Time: OMI/OMIH-D: 15 ms max. OMI/OMIH-L: 20 ms max

14.5

Release Time: 8 ms max.

Environmental Data

Temperature Range: Operating: OMI/OMIH-D:

-30°C to +55°C OMI/OMIH-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):

OMI/OMIH-SS: Vented (Flux-tight) plastic cover.

OMI/OMIH-SH: Sealed plastic case. Weight: 0.46 oz (13g) approximately.

OEG



2. Enclosure: SS = Vent (Flux-tight)* plastic cover.

SH = Sealed, plastic case.

3. Termination:

1 = 1 pole

4. Coil Voltage:

09 = 9VDC24 = 24VDC05 = 5VDC

06 = 6VDC12 = 12VDC48 = 48VDC

5. Coil Input:

D = Standard (720mW) L = Sensitive (540mW)

6. Contact Arrangement:

Blank = 1 Form C, SPDT M = 1 Form A, SPST-NO

7. Suffix:

,300 = Standard model for "SS" enclosure

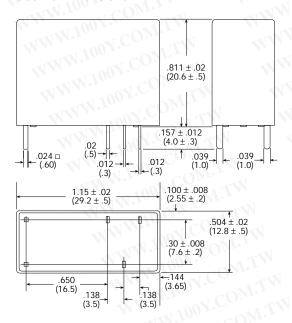
,394 = Standard model for "SH" enclosure

Other Suffix = Custom model

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

OMIH-SH-105D,394 OMIH-SH-105L,394 OMIH-SH-112D,394 OMIH-SH-112L,394 OMIH-SH-124D,394 OMIH-SH-124L,394

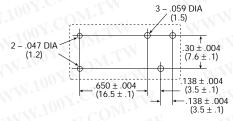
Outline Dimensions



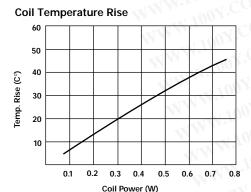
Wiring Diagram (Bottom View)

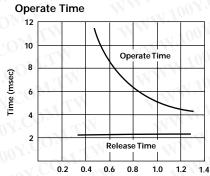


PC Board Layout (Bottom View)



Reference Data





Coil Power (W)

