

## Power PCB relay OMI/OMIH

- 1pole 10/16A, 1 form A (NO) or 1 form C (CO) contact
- Meet 5000V dielectric voltage between coil and contacts
- Meet 10000V surge voltage between coil and contacts

Typical applications Home appliances, office machines











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VDE 40005414, UL E58304, CSA LR48471, SEMKO 613298(OMI), SEMKO 903200(OMIH), CQC 08001024660

Technical data of approved types on request

Contact Data	OMI	OMIH			
Contact arrangement	1 form A (NO), 1 form C (CO)				
Rated voltage	250VAC				
Max. switching voltage	30VDC, 250VAC				
Rated current	10A	16A			
Switching power	2500VA, 300W	4000VA, 480W			
Contact material	Ag	SnO			
Min. recommended contact load	100mA	A, 5VDC			
Initial contact resistance	100mOhm	at 1A 6VDC			
Frequency of operation, with/without	load 1800/1	8000h <sup>-1</sup>			
Operate/release time max.					
standard coil:	15/8ms				
sensitive coil:	20/8ms				
Electrical endurance					
OMI: NO 10A, 250VAC, resistive,	$100x10^{3}$ ops.				
OMIH:NO 16A, 250VAC, resistive	$100x10^{3}$ ops.				
OMI: NC 5A, 250VAC, resistive,	$100x10^3$ ops.				
OMIH:NC 8A, 250VAC, resistive,	$100x10^3$ ops.				
Contact ratings	10A,	16A,			
	250VAC (NO)	250VAC/30VDC			
	5A,				
	250VAC (NC)				
Mechanical endurance	10x10 <sup>6</sup> operations				

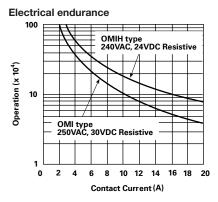
Coil Data		
Coil voltage range	5 to 48VDC	
Coil insulation system according UL	class 105 (A)	

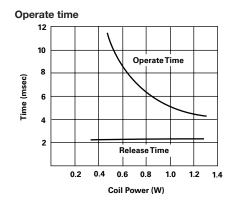
## Coil Data (continued)

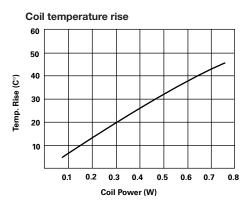
Coil vers	sions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
Standar	d coil, 720m\	W			
05	5	3.5	0.25	36	720
06	6	4.2	0.3	48.5	720
09	9	6.3	0.45	115	720
12	12	8.4	0.6	200	720
24	24	16.8	1.2	820	720
48	48	33.6	2.4	3300	720
Sensitive	e coil, 540m\	N			
05	5	3.75	0.25	48.5	540
06	6	4.5	0.3	68	540
09	9	6.75	0.45	155	540
12	12	9.0	0.6	270	540
24	24	18.0	1.2	1100	540
48	48	36.0	2.4	4400	540

All figures are given for coil without pre-energization, at ambient temperature +23°C.

1000V <sub>rms</sub>	
5000V <sub>rms</sub>	
10000V	
1000ΜΩ	
≥ 5.5/8mm	
	5000V <sub>rms</sub> 10000V 1000MΩ









### Power PCB relay OMI/OMIH (Continued)

#### **Other Data**

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature

standard coil -30 to 60°C sensitive coil -30 to 70°C

Category of environmental protection

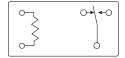
IEČ 61810 RTII - flux proof, RTIII - wash tight

Vibration resistance (functional) 10 to 50Hz, 1.5mm double amplitude

Shock resistance (functional)

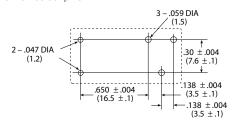
#### Terminal assignment

Bottom view on solder pins

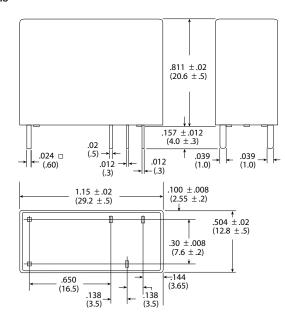


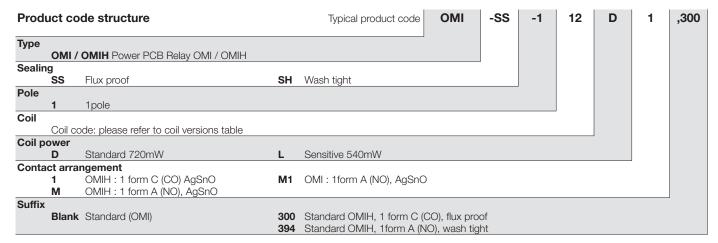
#### **PCB** layout

Bottom view on solder pins



#### Dimensions







## Power PCB relay OMI/OMIH (Continued)

Product code	Version	Contact	Cont.material	Coil power	Coil voltage	Sealing	Part number
OMI-SS-105DM1	10A	1 form A (NO)	AgSnO	720mW	5VDC	Flux proof	1721129-3
OMI-SS-112DM1		` '	, and the second		12VDC	·	1721129-9
OMI-SS-124DM1					24VDC		1-1721129-3
OMI-SS-105LM1				540mW	5VDC		1721129-4
OMI-SS-112LM1				- 1-11111	12VDC		1-1721129-0
OMI-SS-124LM1					24VDC		1-1721129-4
OMI-SS-105D1		1 form C (CO)		720mW	5VDC		1721130-3
OMI-SS-112D1		1 101111 0 (00)		7 2011111	12VDC		1721130-9
OMI-SS-124D1					24VDC		1-1721130-3
OMI-SS-105L1				540mW	5VDC		1721130-4
OMI-SS-112L1				0401110	12VDC		1-1721130-0
OMI-SS-124L1					24VDC		1-1721130-4
OMI-SH-105DM1		1 form A (NO)		720mW	5VDC	Wash tight	1-1721130-4
		I IOITI A (NO)		72011100	12VDC	wash tight	
OMI-SH-112DM1					24VDC		2-1721129-5
OMI-SH-124DM1				5.40 M/	24VDC		2-1721129-9
OMI-SH-105LM1				540mW	5VDC		2-1721129-0
OMI-SH-112LM1					12VDC		2-1721129-6
OMI-SH-124LM1					24VDC		3-1721129-0
OMI-SH-105D1		1 form C (CO)		720mW	5VDC		1-1721130-9
OMI-SH-112D1					12VDC		2-1721130-5
OMI-SH-124D1					24VDC		2-1721130-9
OMI-SH-105L1				540mW	5VDC		2-1721130-0
OMI-SH-112L1					12VDC		2-1721130-6
OMI-SH-124L1					24VDC		3-1721130-0
OMIH-SS-105DM,300	16A	1 form A (NO)		720mW	5VDC	Flux proof	1461022-5
OMIH-SS-112DM,300					12VDC		8-1440000-4
OMIH-SS-124DM,300					24VDC		8-1440000-9
OMIH-SS-105LM,300				540mW	5VDC		2-1419153-1
OMIH-SS-112LM,300					12VDC		8-1440000-6
OMIH-SS-124LM.300					24VDC		2-1419153-2
OMIH-SS-105D1,300		1 form C (CO)		720mW	5VDC		1721535-1
OMIH-SS-112D1,300		1 101111 0 (00)		. 20	12VDC		1721535-4
OMIH-SS-124D1,300					24VDC		1721535-7
OMIH-SS-105L1,300				540mW	5VDC		1721535-2
OMIH-SS-112L1,300				0 1011111	12VDC		1721535-5
OMIH-SS-124L1,300					24VDC		1721535-8
OMIH-SH-105DM,394		1 form A (NO)		720mW	5VDC	Wash tight	1-1461373-5
OMIH-SH-112DM,394		T IOITI A (INO)		7 2011100	12VDC	vvasii tigiit	1-1461373-8
OMIH-SH-124DM,394					24VDC		1-1461373-9
				540mW	5VDC		
OMIH-SH-105LM,394 OMIH-SH-112LM,394				34011100	12VDC		6-1440000-7 7-1440000-1
					24VDC		
OMIH-SH-124LM,394		1 fauna ( (CO)		720mW			1461373-3
OMIH-SH-105D1,300		1 form C (CO)		/20mvv	5VDC		1-1721535-1
OMIH-SH-112D1,300					12VDC		1-1721535-4
OMIH-SH-124D1,300				5.40	24VDC		1-1721535-7
OMIH-SH-105L1,300				540mW	5VDC		1-1721535-2
OMIH-SH-112L1,300					12VDC		1-1721535-5
OMIH-SH-124L1,300					24VDC		1-1721535-8

# **Mouser Electronics**

**Authorized Distributor** 

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<u>TE Connectivity</u>: 6-1440000-0