

**Power PCB Relay OMI 2P**

- 2pole, 5A ,2 form A (NO) or 2 form C (CO)
- Meet 5000V dielectric voltage between coil and contacts
- Meet 10000V surge voltage between coil and contacts

Typical applications  
Home appliances, office machines



**Approvals**

VDE Reg.-No.40005414, UL E58304, CSA LR48471-79, SEMKO 613298, CQC 08001024660  
Technical data of approved types on request

**Contact Data**

Contact arrangement	2 form A (NO), 2 form C (CO)
Rated voltage	250VAC
Max. switching voltage	30VDC, 250VAC
Rated current	5A
Switching power	1250VA, 150W
Contact material	AgSnO
Min. recommended contact load	100mA, 5VDC
Initial contact resistance	100mΩ at 1A, 6VDC
Frequency of operation, with/without load	1800/18000h <sup>-1</sup>
Operate/release time max.	
standard coil (D)	15/8ms
sensitive coil (L)	20/8ms
Electrical endurance	
NO 5A, 240VAC, resistive,	100x10 <sup>3</sup> ops.
NC 2.5A, 240VAC, resistive,	100x10 <sup>3</sup> ops.
Contact ratings	10A, 240VAC/30VDC
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 versions, DC coil**

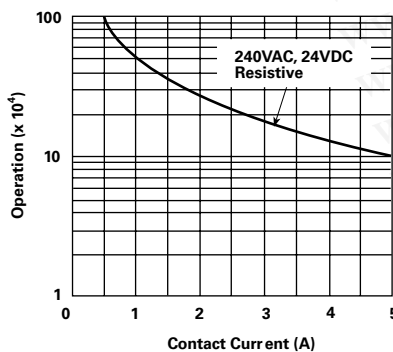
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
<b>Standard coil, 720mW</b>					
05	5	3.5	0.25	36	720
06	6	4.2	0.3	48.5	720
09	9	6.3	0.45	115	720
12	12	8.4	0.6	200	720
24	24	16.8	1.2	820	720
48	48	33.6	2.4	3300	720
<b>Sensitive coil, 540mW</b>					
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.

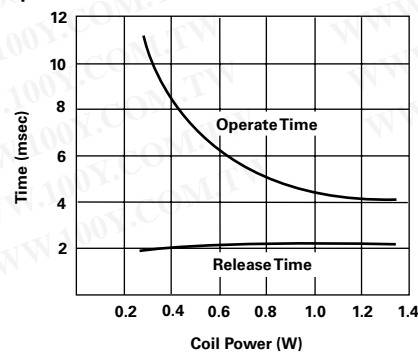
**Insulation Data**

Initial dielectric strength	
between open contacts	1000V <sub>rms</sub>
between contact and coil	5000V <sub>rms</sub>
between adjacent contacts	2500V <sub>rms</sub>
Initial surge withstand voltage	
between contact and coil	10000V
Initial insulation resistance	1000MΩ
Clearance/creepage	
between contact and coil	≥ 5.5/8mm

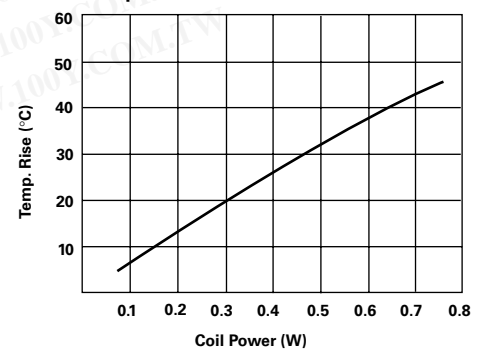
**Electrical endurance**



**Operate time**



**Coil temperature rise**





**Power PCB Relay OMI 2P** (Continued)

<b>Product code structure</b>		Typical product code		<b>OMI</b>	<b>-SS</b>	<b>2</b>	<b>12</b>	<b>D</b>	<b>M</b>	<b>1</b>
<b>Type</b>	<b>OMI</b>	Power PCB Relay OMI 2P								
<b>Sealing</b>	<b>SS</b>	Flux proof	<b>SH</b>	Wash tight						
<b>Pole</b>	<b>2</b>	2 pole								
<b>Coil</b>	coil code: please refer to coil versions table									
<b>Coil power</b>	<b>D</b>	Standard 720mW		<b>L</b>	Sensitive 540mW					
<b>Contact arrangement</b>	<b>Blank</b>	2 form C (CO)			<b>M</b>	2 form A (NO)				
<b>Contact material</b>	<b>Blank</b>	AgCdO			<b>1</b>	AgSnO				
<b>Suffix</b>	<b>Blank</b>	AgSnO		<b>,500</b>	AgCdO, flux proof		<b>,594</b>	AgCdO, wash tight		

Product code	Version	Contact	Cont.material	Coil power	Coil voltage	Sealing	Part number
OMI-SS-205DM1	5A	2 form A (NO)	AgSnO	720mW	5VDC	Flux proof	1721438-2
OMI-SS-212DM1					12VDC		1721438-5
OMI-SS-224DM1					24VDC		1721438-7
OMI-SS-205LM1				540mW	5VDC		1721437-2
OMI-SS-212LM1					12VDC		1721437-5
OMI-SS-224LM1					24VDC		1721437-7
OMI-SS-205D1		2 form C (CO)		720mW	5VDC		1721436-2
OMI-SS-212D1					12VDC		1721436-5
OMI-SS-224D1					24VDC		1721436-7
OMI-SS-205L1				540mW	5VDC		1721435-2
OMI-SS-212L1					12VDC		1721435-5
OMI-SS-224L1					24VDC		1721435-7
OMI-SH-205DM1		2 form A (NO)		720mW	5VDC	Wash tight	1-1721438-1
OMI-SH-212DM1					12VDC		
OMI-SH-224DM1					24VDC		1-1721438-6
OMI-SH-205LM1				540mW	5VDC		1-1721437-1
OMI-SH-212LM1					12VDC		1-1721437-4
OMI-SH-224LM1					24VDC		1-1721437-6
OMI-SH-205D1		2 form C (CO)		720mW	5VDC		1-1721436-1
OMI-SH-212D1					12VDC		1-1721436-4
OMI-SH-224D1					24VDC		1-1721436-6
OMI-SH-205L1				540mW	5VDC		1-1721435-1
OMI-SH-212L1					12VDC		1-1721435-4
OMI-SH-224L1					24VDC		1-1721435-6

勝特力材料 886-3-5753170  
 勝特力电子(上海) 86-21-34970699  
 勝特力电子(深圳) 86-755-83298787  
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