

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 ⁻¹
Operate/release time max.	
standard coil (D)	15/8ms
sensitive coil (L)	20/8ms
Electrical endurance	
NO 5A, 240VAC, resistive,	100x10 ³ ops.
NC 2.5A, 240VAC, resistive,	100x10 ³ ops.
Contact ratings	10A, 240VAC/30VDC
Mechanical endurance	10x10 ⁶ operations

Coil Data

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

Coil data (continued)

Coil versions, DC coil

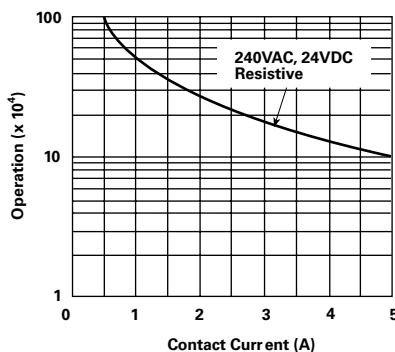
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
Standard coil, 720mW					
05	5	3.5	0.25	36	720
06	6	4.2	0.3	48.5	720
09	9	6.3	0.45	115	720
12	12	8.4	0.6	200	720
24	24	16.8	1.2	820	720
48	48	33.6	2.4	3300	720
Sensitive coil, 540mW					
05	5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

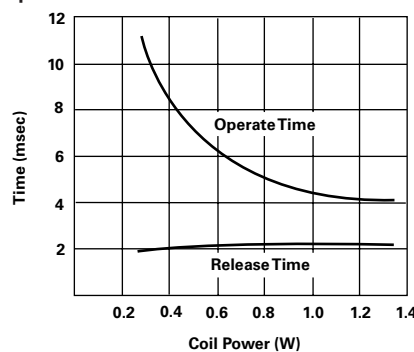
Insulation Data

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

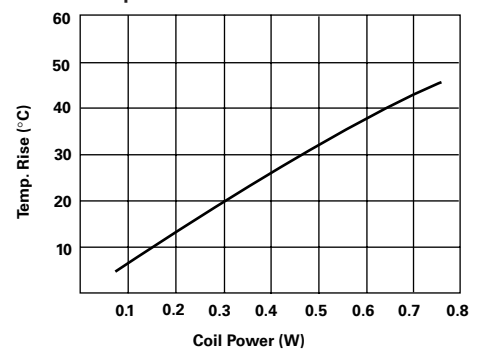
Electrical endurance



Operate time



Coil temperature rise



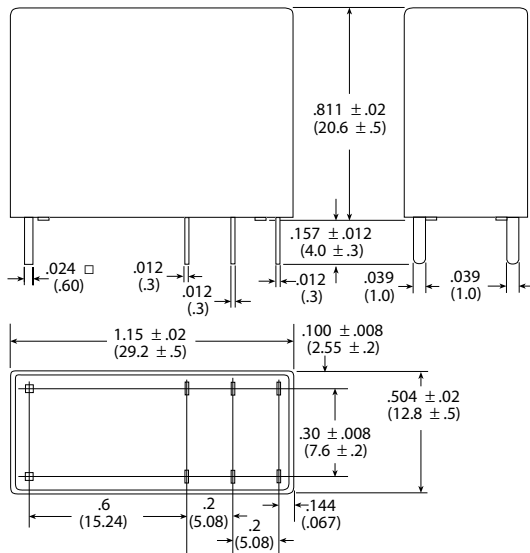
Power PCB Relay OMI 2P (Continued)

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

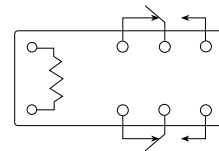
Ambient temperature	
standard coil	-30 to 60°C
sensitive coil	-30 to 70°C
Category of environmental protection	
IEC 61810	RTII - flux proof, RTIII - wash tight
Vibration resistance (functional)	10 to 50Hz, 1.5mm double amplitude
Shock resistance (functional)	
IEC 60068-2-27 (half sine)	98m/s ² , 11ms
Terminal type	PCB-THT
Weight	13g
Resistance to soldering heat THT	
IEC 60068-2-20	260°C/5s
Packaging/unit	box/1000 pcs.

Dimensions



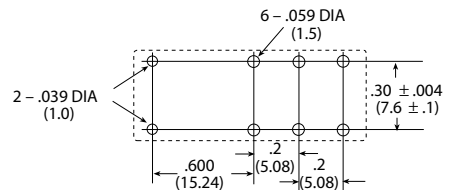
Terminal assignment

Bottom view on solder pins



PCB layout

Bottom view on solder pins



Power PCB Relay OMI 2P (Continued)

Product code structure		Typical product code		OMI	-SS	2	12	D	M	1
Type	OMI	Power PCB Relay OMI 2P								
Sealing	SS	Flux proof	SH	Wash tight						
Pole	2	2 pole								
Coil	coil code: please refer to coil versions table									
Coil power	D	Standard 720mW		L	Sensitive 540mW					
Contact arrangement	Blank	2 form C (CO)		M	2 form A (NO)					
Contact material	Blank	AgCdO		1	AgSnO					
Suffix	Blank	AgSnO		,500	AgCdO, flux proof		,594	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		1-1721438-4
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