## 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 勝特力材料 886-3-5753170 胜特力电子(上海) 86-21-34970699 胜特力电子(深圳) 86-755-83298787 Http://www.100y.com.tw

Coil Data (continued)



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#### Approvals

VDE 40005414, UL E58304, CSA LR48471, SEMKO 613298(OMI), SEMKO 903200(OMIH), CQC 08001024660 Technical data of approved types on request

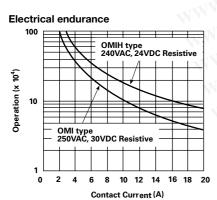
Contact Data	OMI	OMIH			
Contact arrangement	1 form A (NO)	, 1 form C (CO)			
Rated voltage	250	OVAC			
Max. switching voltage	30VDC	, 250VAC			
Rated current	10A	16A			
Switching power	2500VA, 300W				
Contact material		SnO			
Min. recommended contact load		A, 5VDC			
Initial contact resistance		at 1A 6VDC			
Frequency of operation, with/without	t 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		0 <sup>3</sup> ops.			
OMIH :NO 16A, 250VAC, resistive		0 <sup>3</sup> ops.			
OMI : NC 5A, 250VAC, resistive,		0 <sup>3</sup> ops.			
OMIH :NC 8A, 250VAC, resistive,	100x1	0 <sup>3</sup> ops.			
Contact ratings	10A,	16A,			
	250VAC (NO)	250VAC/30VDC			
	5A,				
N**	250VAC (NC)	WT No			
Mechanical endurance	10x10 <sup>6</sup> (	operations			

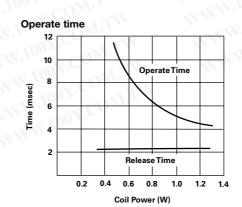
5 to 48VDC

class 105 (A)

#### **Coil Data**

Coil voltage range Coil insulation system according UL



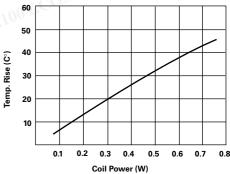


<b>Coil vers</b>	ions, DC coil				
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
Standard	d coil, 720mW		10	DY.	
05	5	3.5	0.25	36	720
06	6	4.2	0.3	48.5	720
09	9	6.3	0.45	115	720
12	12	8.4	0.6	200	720
24	24	16.8	1.2	820	720
48	48	33.6	2.4	3300	720
Sensitive	e coil, 540mW		- TANY	-16	O'
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	N.V. WIL
between open contacts	1000V <sub>rms</sub>
between contact and coil	5000V <sub>rms</sub>
Initial surge withstand voltage	N 100 *
between contact and coil	10000V
Initial insulation resistance	1000ΜΩ
Clearance/creepage	NA ANA
between contact and coil	≥ 5.5/8mm

#### **Coil temperature rise**



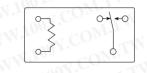
### Power PCB relay OMI/OMIH (Continued)

#### **Other Data**

	Product Compliance Support Center at pm/customersupport/rohssupportcenter
	om/customersupport/foilssupportcenter
Ambient temperature	
standard coil	-30 to 60°C
sensitive coil	-30 to 70°C
Category of environmental protection	n
IEC 61810	RTII - flux proof,
	RTIII - wash tight
Vibration resistance (functional)	10 to 50Hz, 1.5mm double amplitude
Shock resistance (functional)	1001.
IEC 60068-2-27 (half sine)	98m/s², 11ms
Terminal type	PCB-THT
Weight	13g
Resistance to soldering heat THT	100
IEC 60068-2-20	260°C/5s
Packaging/unit	box/1000 pcs.
ALW W. ST COM	You WW

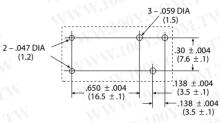
#### **Terminal assignment**

Bottom view on solder pins

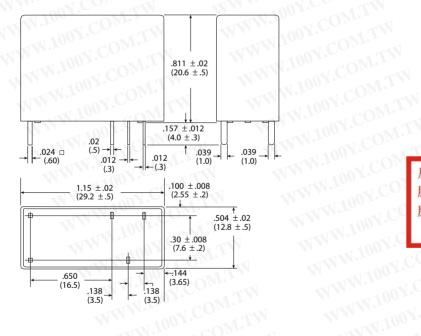


PCB layout

Bottom view on solder pins



Dimensions



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Produ	ict co	de structure		Typical product code	ОМІ	-SS	<b></b> 1	12	D	,300
Туре	омі /	OMIH Power PCB Relay OMI / OMIH	OT.C	W W		NY.C	OM.	W		
Sealing	3		00 5	M.I.		<u>T</u> UU -	CON			
-	SS	Flux proof	SH	Wash tight						
Pole			100 -	CONT		100				
	1	1pole								
Coil			N. JUV	CONT				-		
	Coil co	ode: please refer to coil versions table								
Coil po	wer		N.100	CON						
	D	Standard 720mW	Lo	Sensitive 540mW						
Contac	t arra	ngement	11.10							
	1	OMIH : 1 form C (CO) AgSnO	M1	OMI : 1form A (NO), AgSnO						
	м	OMIH : 1 form A (NO), AgSnO								
Suffix		· /: •								
	Blank	Standard (OMI)	300	Standard OMIH, 1 form C (C	CO), flux pro	oof				
			394	Standard OMIH. 1form A (N	O), wash tio	aht				

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

Product code	Version	Contact	Cont.material	Coil power	Coil voltage	Sealing	Part numbe
OMI-SS-105DM1	10A	1 form A (NO)	AgSnO	720mW	5VDC	Flux proof	1721129-3
OMI-SS-112DM1		N.IV.	ON.		12VDC		1721129-9
OMI-SS-124DM1		L'ANDY.	T. T.		24VDC		1-1721129-3
OMI-SS-105LM1		N.I.	ON.	540mW	5VDC		1721129-4
OMI-SS-112LM1		1			12VDC		1-1721129-0
OMI-SS-124LM1			CONCI	700 14/	24VDC		1-1721129-4
OMI-SS-105D1		1 form C (CO)		720mW	5VDC		1721130-3
OMI-SS-112D1			- CON1		12VDC		1721130-9
OMI-SS-124D1				540mW	24VDC 5VDC		1-1721130-3
OMI-SS-105L1 OMI-SS-112L1			CON-	5401100	12VDC		1721130-4 1-1721130-0
OMI-SS-124L1					24VDC		1-1721130-0
OMI-SH-105DM1		1 form A (NO)	$\sim 1 \text{ CO}^{\text{NL}}$	720mW	5VDC	Wash tight	1-1721129-9
OMI-SH-112DM1			101.	1201100	12VDC	vvasi i tigi it	2-1721129-5
OMI-SH-124DM1					24VDC		2-1721129-9
OMI-SH-105LM1			1001.	540mW	5VDC		2-1721129-0
OMI-SH-112LM1		A NOT	-1 CON		12VDC		2-1721129-6
OMI-SH-124LM1			- 100 1.		24VDC		3-1721129-0
OMI-SH-105D1		1 form C (CO)	1.10	720mW	5VDC		1-1721130-9
OMI-SH-112D1			-11001.		12VDC		2-1721130-5
OMI-SH-124D1			N.Y acc		24VDC		2-1721130-9
OMI-SH-105L1			1001.0	540mW	5VDC		2-1721130-0
OMI-SH-112L1		-	11.1		12VDC		2-1721130-6
OMI-SH-124L1			1001.		24VDC	11001.	3-1721130-0
OMIH-SS-105DM,300	16A	1 form A (NO)	NN.L	720mW	5VDC	Flux proof	1461022-5
OMIH-SS-112DM,300			1002.		12VDC		8-1440000-4
OMIH-SS-124DM,300 OMIH-SS-105LM,300			ATAN N. L	540mW	24VDC 5VDC		8-1440000-9 2-1419153-1
OMIH-SS-105LM,300			N 1 100 1	5401100	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 ZOITIV	12VDC		1721535-4
OMIH-SS-124D1,300			N 11		24VDC		1721535-7
OMIH-SS-105L1,300			N.L.	540mW	5VDC		1721535-2
OMIH-SS-112L1,300		NTN.	NY 1		12VDC		1721535-5
OMIH-SS-124L1,300		ALL STREET	NW.		24VDC		1721535-8
OMIH-SH-105DM,394		1 form A (NO)		720mW	5VDC	Wash tight	1-1461373-5
OMIH-SH-112DM,394		OW	N WIT		12VDC		1-1461373-8
OMIH-SH-124DM,394		TIM		1001.	24VDC		1-1461373-9
OMIH-SH-105LM,394		COMP.		540mW	5VDC		6-1440000-7
OMIH-SH-112LM,394		TATIN			12VDC		7-1440000-1
OMIH-SH-124LM,394		1.6	- IN	700 14/	24VDC		1461373-3
OMIH-SH-105D1,300		1 form C (CO)		720mW	5VDC		1-1721535-1
OMIH-SH-112D1,300		A COMP			12VDC		1-1721535-4
OMIH-SH-124D1,300		T. Martin		510mW	24VDC		1-1721535-7
OMIH-SH-105L1,300 OMIH-SH-112L1,300		COM.		540mW	5VDC 12VDC		1-1721535-2 1-1721535-5
OMIH-SH-112L1,300 OMIH-SH-124L1,300		Provide State			24VDC		1-1721535-5
UIVIII 1-31-124L1,300		OOX.COM			24000	1	1-1/21030-8

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