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

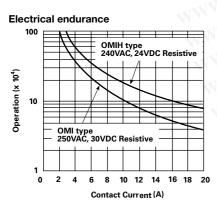
Contact Data	OMI	OMIH			
Contact arrangement	1 form A (NO)	, 1 form C (CO)			
Rated voltage	250	OVAC			
Max. switching voltage	30VDC	, 250VAC			
Rated current	10A	16A			
Switching power	2500VA, 300W				
Contact material		SnO			
Min. recommended contact load		A, 5VDC			
Initial contact resistance		at 1A 6VDC			
Frequency of operation, with/without	t load 1800/1	8000h ⁻¹			
Operate/release time max.					
standard coil:	15/	/8ms			
sensitive coil:	20/8ms				
Electrical endurance					
OMI : NO 10A, 250VAC, resistive		0 ³ ops.			
OMIH :NO 16A, 250VAC, resistive		0 ³ ops.			
OMI : NC 5A, 250VAC, resistive,		0 ³ ops.			
OMIH :NC 8A, 250VAC, resistive,	100x1	0 ³ ops.			
Contact ratings	10A,	16A,			
	250VAC (NO)	250VAC/30VDC			
	5A,				
N**	250VAC (NC)	WT No			
Mechanical endurance	10x10 ⁶ (operations			

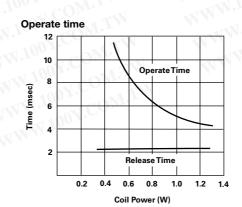
5 to 48VDC

class 105 (A)

Coil Data

Coil voltage range Coil insulation system according UL



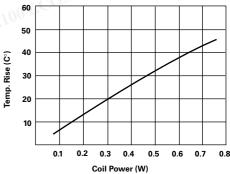


Coil vers	ions, DC coil				
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
Standard	d coil, 720mW		10	DY.	
05	5	3.5	0.25	36	720
06	6	4.2	0.3	48.5	720
09	9	6.3	0.45	115	720
12	12	8.4	0.6	200	720
24	24	16.8	1.2	820	720
48	48	33.6	2.4	3300	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 _{rms}
between contact and coil	5000V _{rms}
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



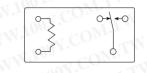
Power PCB relay OMI/OMIH (Continued)

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

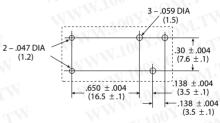
Terminal assignment

Bottom view on solder pins

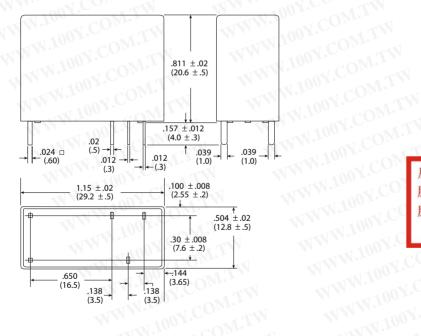


PCB layout

Bottom view on solder pins



Dimensions



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Produ	ict co	de structure		Typical product code	ОМІ	-SS	 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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OEG

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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