



element14

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[OMIT-SH-112LM,394](#)

[OMIT-SS-112LM,000](#)

[4-1419123-9](#)

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This Datasheet is presented by
the manufacturer

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Dieses Datenblatt wird vom
Hersteller bereitgestellt

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Cette fiche technique est
présentée par le fabricant

Power PCB Relay OMIT

- 1 pole, 10A, 1 form A (NO)
- UL TV-5 rating available
- Meet 5000V dielectric voltage between coil and contacts
- Meet 10000V surge voltage between coil and contacts

Typical applications
TV, home appliances



Approvals

VDE 40005414, UL E58304, CSA LR48471, SEMKO 903202,
CQC 08001024660

Technical data of approved types on request

Contact Data

Contact arrangement	1 form A (NO)
Rated voltage	240VAC
Max. switching voltage	30VDC, 240VAC
Rated current	10A
Switching power	2000VA, 300W
Contact material	AgSnO
Min. recommended contact load	100mA, 5VDC
Initial contact resistance	100mOhm at 1A, 6VDC
Frequency of operation, with/without load	1800/18000h ⁻¹
Operate/release time max.	
standard coil (D)	15ms/8ms
sensitive coil (L)	20ms/8ms
Electrical endurance	
5A, 240VAC, resistive,	100x10 ³ ops.
Contact ratings	10A, 240VAC/30VDC, TV-8,
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

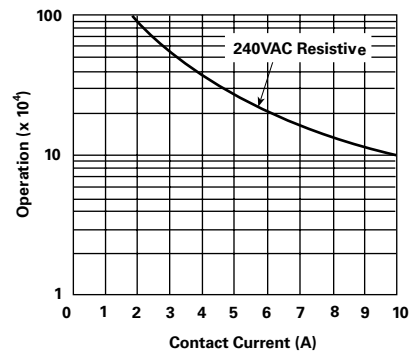
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance $\Omega \pm 10\%$	Rated coil power mW
Standard coil, 720mW					
05	5	3.5	0.25	36	720
06	6	4.2	0.3	48.5	720
09	9	6.3	0.45	115	720
12	12	8.4	0.6	200	720
24	24	16.8	1.2	820	720
48	48	33.6	2.4	3300	720
Sensitive coil, 540mW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

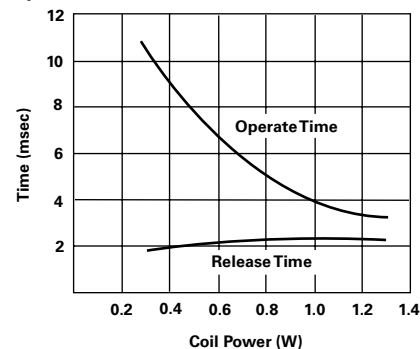
Insulation Data

Initial dielectric strength	
between open contacts	1000V _{rms}
between contact and coil	5000V _{rms}
Initial surge withstand voltage	
between contact and coil	10000V
Initial insulation resistance	1000M Ω
Clearance/creepage	
between contact and coil	$\geq 5.5/8\text{mm}$

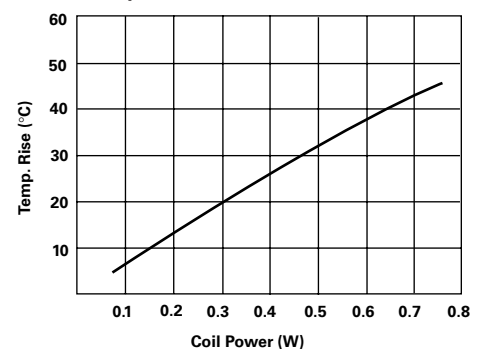
Electrical endurance



Operate time



Coil temperature rise



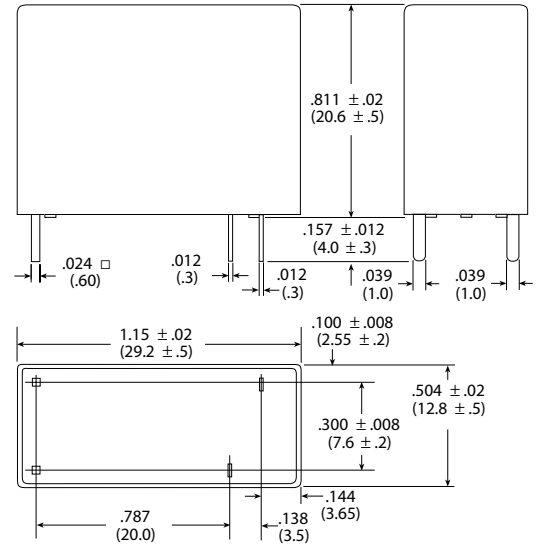
Power PCB Relay OMIT (Continued)

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



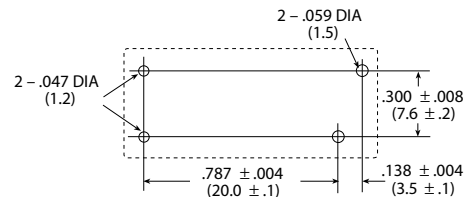
Terminal assignment

Bottom view on solder pins



PCB layout

Bottom view on solder pins



Product code structure

Typical product code

OMIT SS 1 12 D M ,300

Type	OMIT Power PCB Relay OMIT		
Sealing	SS Flux proof	SH Wash tight	
Pole	1 1 pole		
Coil	coilCoil code: please refer to coil versions table		
Coil power	D Standard 720mW	L Sensitive 540mW	
Contact arrangement	Blank 1 form C (CO)	M 1 form A (NO)	
Suffix	,300 Flux proof	,394 Wash tight	

Product code	Version	Contact	Cont.material	Coil power	Coil voltage	Sealing	Part number
OMIT-SS-105DM,300	10A	1 form A (NO)	AgSnO	720mW	5VDC	Flux proof	1461208-3
OMIT-SS-112DM,300					12VDC		1-1461208-2
OMIT-SS-124DM,300					24VDC		1440001-5
OMIT-SS-105LM,300				540mW	5VDC		1440001
OMIT-SS-112LM,300					12VDC		1440001-4
OMIT-SS-124LM,300					24VDC		1440001-6
OMIT-SH-105DM,394				720mW	5VDC	Wash tight	1461387-2
OMIT-SH-112DM,394					12VDC		1-1461387-4
OMIT-SH-124DM,394					24VDC		1-1461387-7
OMIT-SH-105LM,394				540mW	5VDC		1461387-4
OMIT-SH-112LM,394					12VDC		9-1440000-6
OMIT-SH-124LM,394					24VDC		1-1461387-9



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