Power PCB Relay OMIF

- **1 pole 16A, 1 form A (NO) contact**
- **Sensitive DC coil 540mW**
- **Dielectric strength 5kV coil-contact**
- **Quick connect load terminals #187**

Typical applications
Microwave oven, washing machine, electrical water heater and other applainces

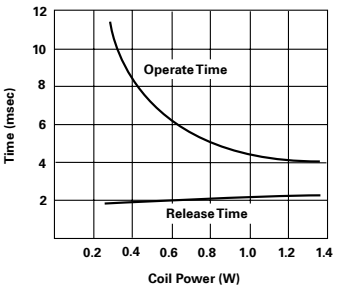
Approvals

VDE REG.-Nr. 6606, UL E82292, TUV R50139114, CQC 04001010241
Technical data of approved types on request

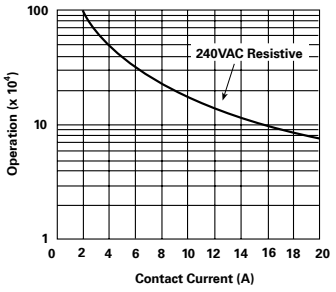
Contact Data

Contact arrangement	1 form A (NO)
Rated voltage	250VAC
Switching voltage/max. switching voltage	250VAC
Rated current	16A
Limiting continuous current	16A
Limiting making current	16A
Limiting breaking current	16A
Contact material	$AgSnO_2$
Min. recommended contact load	100mA at 5VDC
Frequency of operation	360 ops./h
Operate/release time max.	20/10ms
Electrical endurance	
16A, 250VAC resistive, -30°C to +85°C,	$45x10^3$ ops.
16A, 250VAC resistive, -30°C to +40°C,	$100x10^3$ ops.
Mechanical endurance	$300x10^3$ ops.

Operate Time



Life Expectancy



Coil Data

Coil voltage range	3 to 48VDC
Operative range, IEC 61810	2
Max. coil power	130% of nominal
Max. coil temperature	155°C
Coil insulation system according UL	Class F

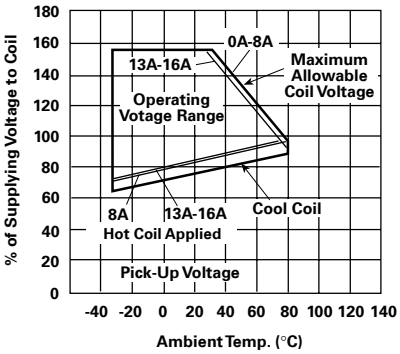
Coil Data (continued)

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
003	3	2.25	0.15	16.7	540
005	5	3.75	0.25	46.3	540
006	6	4.50	0.30	66.7	540
009	9	6.75	0.45	150	540
012	12	9.00	0.60	267	540
018	18	13.50	0.90	600	540
024	24	18.00	1.20	1067	540
036	36	27.00	1.80	2400	540
048	48	36.00	2.40	4267	540

All figures are given for coil without pre-energization, at ambient temperature +23°C

Operating Voltage



Insulation Data

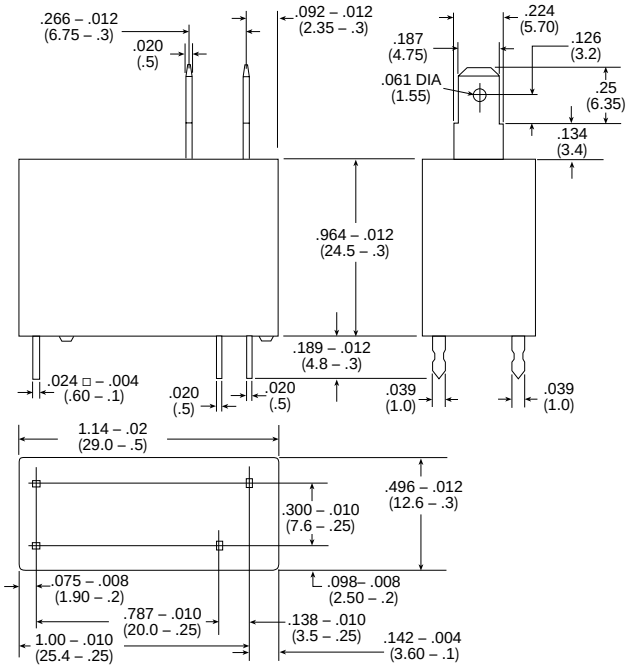
Initial dielectric strength	
between open contacts	$1000V_{rms}$
between contact and coil	$5000V_{rms}$
Clearance/creepage between contact and coil	>9.8/10mm

Power PCB Relay OMIF (Continued)

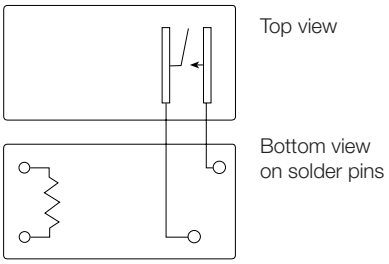
Other Data	
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter	
Ambient temperature	-30 to 85°C
Category of environmental protection IEC 61810	RTII - flux proof
Shock resistance (functional)	10g
Shock resistance (destructive)	100g

Other data (continued)	
Terminal type	PCB-THT quick connect for load terminals
Weight	approx. 15g
Resistance to soldering heat, THT IEC 60068-2-20	270°C/10s
Packaging/unit	box/50pcs.

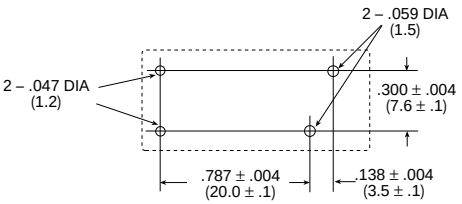
Dimensions



Terminal assignment



PCB layout
Bottom view on solder pins



Product code structure

Typical product code: **OMIF -S -1 12 L M ,100**

Type
OMIF Power PCB Relay OMIF

Enclosure
S RT II - flux proof

Contacts
1 1 pole

Coil voltage
Coil code: please refer to coil versions table; coil code = rated coil voltage (e.g. 024=24VDC)

Coil version
L Sensitive 540mW

Contact arrangement
M 1 form A, 1NO contact

Suffix
,100 Standard type **,300** Coil without tape **,800** Old OMIF terminals

Product code	Arrangement	Version	Coil voltage	Part number
OMIF-S-112LM,100	1form A,	Standard	12VDC	7-1440004-3
OMIF-S-118LM,300	1 NO contact	Coil without tape	18VDC	4-1440002-7
OMIF-S-124LM,800		Old OMIF terminals	24VDC	1649168-5

Other types on request