

Miniature PCB Relay OZF

- 16A contact rating
- Meet 5000V dielectric voltage between coil and contacts
- Quick connect terminal type

Typical applications  
Appliances, HVAC



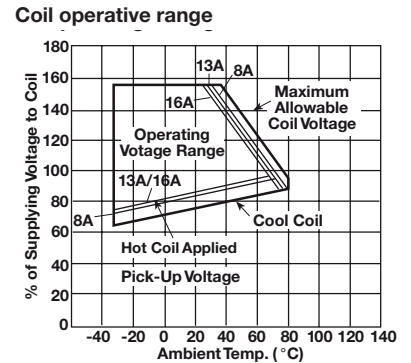
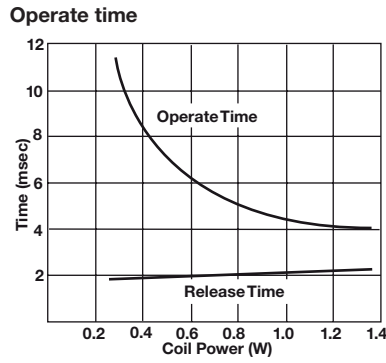
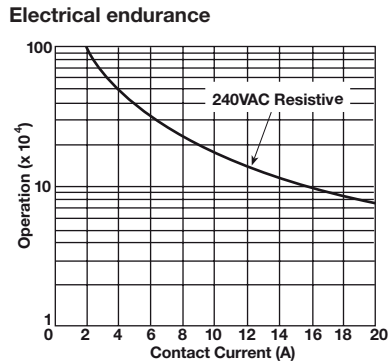
<b>Approvals</b>	
UL E58304, TUV R50139112, CQC 04001010241	
Technical data of approved types on request	

<b>Contact Data</b>	
Contact arrangement	1 form A (NO)
Rated voltage	30VDC, 240VAC
Max. switching voltage	30VDC, 240VAC
Rated current	16A
Contact material	AgSnOInO
Min. recommended contact load	100mA, 5VDC
Frequency of operation	600 ops./h
Operate time max.	D type: 15ms L type: 20ms
Release time mmax.	8ms
Electrical endurance	D type: 16A, 240VAC/30VDC, res., -30 to +60°C 100x10 <sup>3</sup> ops. L type: 16A, 240VAC/30VDC, res., -30 to +90°C 100x10 <sup>3</sup> ops.
Mechanical endurance, DC coil	10x10 <sup>6</sup> operations

<b>Coil Data</b>	
Coil voltage range	3 to 48VDC
Operative range, IEC 61810	2
Coil insulation system according UL	Class E, F

<b>Coil versions, DC coil</b>					
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
<b>Standard type (D type)</b>					
03	3	2.1	0.15	12.5	720
05	5	3.5	0.25	36	720
06	6	4.2	0.3	50	720
09	9	6.3	0.45	115	720
12	12	8.4	0.6	200	720
18	18	12.6	0.9	450	720
24	24	16.8	1.2	820	720
36	36	25.2	1.8	1800	720
48	48	33.6	2.4	3300	720
<b>High sensitivity type (L type)</b>					
03	3	2.25	0.15	17	540
05	5	3.75	0.25	47	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
18	18	13.5	0.9	600	540
24	24	18.0	1.2	1100	540
36	36	27.0	1.8	2400	540
48	48	36.0	2.4	4400	540

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



**Miniature PCB Relay OZF** (Continued)

**Insulation Data**

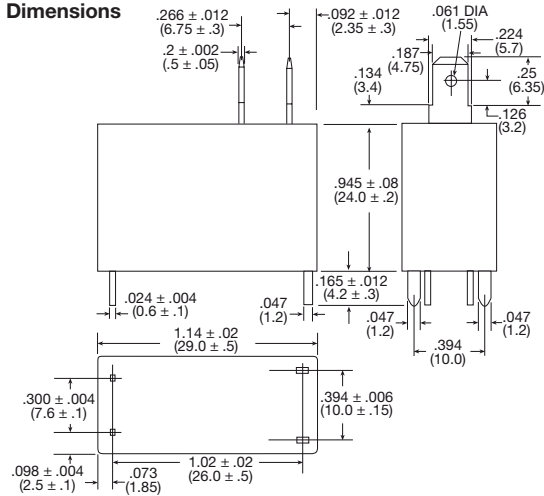
Initial dielectric strength	
between open contacts	1000V <sub>rms</sub>
between contact and coil	5000V <sub>rms</sub>
Clearance/creepage	
between contact and coil	>9.8mm/>10mm

**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](http://www.te.com/customersupport/rohssupportcenter)

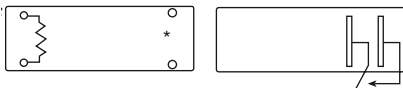
Ambient temperature	D type: -30 to +60°C L type: -30 to +90°C
Category of environmental protection	RTII - flux-tight
IEC 61810	
Shock resistance (functional)	10g
Shock resistance (destructive)	100g
Weight	13g
Resistance to soldering heat THT	
IEC 60068-2-20	RTII: 270°C/10s
Packaging/unit	tray/50 pcs., carton box/500 pcs.

**Dimensions**



**Terminal assignment**

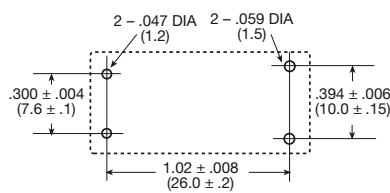
Bottom view on solder pins    Top view



\*No electrical connection, for board attachment only.

**PCB layout**

Bottom view on solder pins



**Product code structure**

Typical product code **OZF -S -1 12 L M 1 P ,000**

<b>Type</b>	<b>OZF</b> Miniature PCB Relay OZF
<b>Category of protection</b>	<b>S</b> Solder flux type
<b>Number of poles</b>	<b>1</b> 1 pole
<b>Coil voltage</b>	Coil code: please refer to coil versions table (e.g. 05=5VDC)
<b>Coil sensitivity</b>	<b>D</b> Standard type <b>L</b> High sensitivity type
<b>Contact arrangement</b>	<b>M</b> 1 form A
<b>Contact material</b>	<b>1</b> AgSnOInO
<b>Terminal construction</b>	<b>P</b> mounted by PCB terminals
<b>Suffix</b>	<b>,000</b> Standard model

Product Code	Enclosure	Coil	Coil	Arrangement	Contacts	Terminals	Suffix	Part Number
OZF-S-105LM1P,300	flux-tight	5VDC	High sensitivity	1 form A (NO)	AgSnOInO	PCB, QC	Coil w/o tape	3-1440002-9
OZF-S-112LM1P,300		12VDC						4-1440002-1
OZF-S-118DM1P,300		18VDC	Standard					1-1419124-4
OZF-S-124DM1P,000		24VDC					Standard	3-1419153-0
OZF-S-124LM1P,000			High sensitivity					1-1419124-9
OZF-S-124LM1P,300							Coil w/o tape	4-1440002-2