

## **Miniature PCB Relay ORWH**

- Compact relay with 1 form A and 1 form C contact arrangement
- 10A switching capacity
- **■** Flux proof or sealed type available
- 6kV dielectric strength type available

Typical applications
Appliances, HVAC, emergency lighting.





Approvals					
UL E82292, TUV R50138967					
Technical data of approved types on request.					
Contact Data					
Contact arrangement	1 form A, 1 NO				
	1 form C, 1 CO				
Rated voltage	28VDC, 277VAC				
Max. switching voltage	28VDC, 277VAC				
Rated current	10A				
Contact material	AgZnO, AgCdO, AgNi				
Min. recommended contact load	100mA, 5VDC				
Frequency of operation	600 ops./h				
Operate/release time max.	10ms/5ms				
Electrical endurance					
AgZnO: form A, 10A, 250VAC, res.,	+85°C, Class B or F only 100x103 ops.				
AgCdO: form A, 10A, 250VAC, res.,	+85°C, Class B or F only 50x103 ops.				
AgNi: form A, 10A, 250VAC, res., +8	5°C, Class B or F only 50x103 ops.				
Contact ratings, form A/form B	10A/6A 250VAC resistive				
	10A/6A 28VDC resistive				
Mechanical endurance, DC coil	10x10 <sup>6</sup> operations				
Coil Data					
Coil voltage range	3 to 48VDC				
Operative range, IEC 61810	2				
Call insulation avators asserting LII	Class A D E				

Coil insulation system according UL			Class A, B, F				
Coil versions, DC coil							
Coil	Rated	Operate	Release	Coil	Rated coil		
code	voltage	voltage	voltage	resistance	power		
	VDC	VDC	VDC	Ω±10 %	mW		
003	3	2.1	0.3	25	360		
005	5	3.5	0.5	70.0	360		
006	6	4.2	0.6	100	360		
009	9	6.3	0.9	225	360		
012	12	8.4	1.2	400	360		
024	24	16.8	2.4	1600	360		
048	48	33.6	4.8	6400	360		

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

Insulation Data	
Initial dielectric strength	
between open contacts	750V <sub>rms</sub>
between contact and coil	1500V <sub>m</sub>
Clearance/creepage	HING
between open contacts	>1.6mm
between contact and coil	>3.2mm
Clearance/creepage	
between open contacts, standard type	>1.6mm
for 6kV dielectrial strength type	>4mm
between contact and coil, standard type	>3.2mm
for 6kV dielectrial strength type	>4mm

Material compliance: EU RoHS/ELV, Ch	J RoHS/ELV, China RoHS, REACH, Halogen content				
refer to the Pro	refer to the Product Compliance Support Center at				
www.te.com/	www.te.com/customersupport/rohssupportcenter				
Ambient temperature	-30°C to +70°C				
Category of environmental protection					
IEC 61810	RTII - flux proof				
	RTIII - wash tight				
Weight	9.5g				
Resistance to soldering heat THT					
IEC 60068-2-20	RTII: 270°C/10s				
	RTIII: 260°C/5s				
Packaging/unit	tube/25, carton box/1000				

Accessories	
Product Code	Description
27E1064	Socket, rated 10A at 300VAC. UL Recognized for US and Canada. Designed to fit same suggested board layout as relay.

**Other Data** 



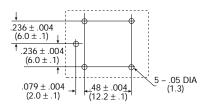
### Miniature PCB Relay ORWH (Continued)

#### **Terminal assignment**

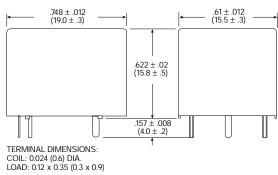
Bottom view on solder pins

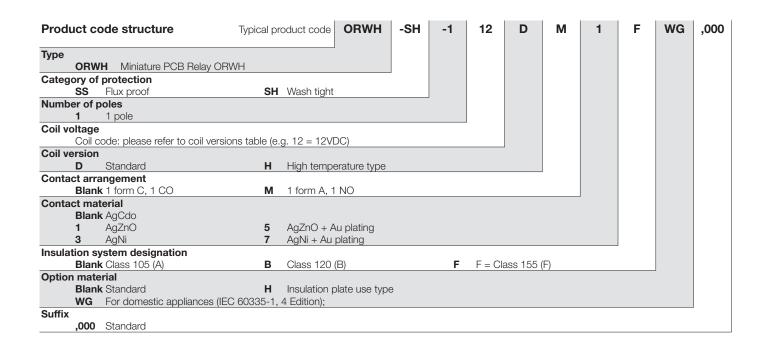


#### **PCB** layout



#### **Dimensions**







## Miniature PCB Relay ORWH (Continued)

Product code	Enclosure	Coil	Coil	Arrangement	Cont.mat.	Insulation	Option	Part number
ORWH-SH-105D1F,000	Wash tight	5VDC	Standard	1 From C, 1CO	AgZnO	Class F	Standard Type	1-1721150-0
ORWH-SS-105D1F,000	Flux proof			1 From C, 1CO				2071448-5
ORWH-SH-105DM1F,000	Wash tight			1 From A, 1NO				2071448-3
ORWH-SS-109D1F,000	Flux proof	9VDC		1 From C, 1CO				2071448-4
ORWH-SH-112D1F,000	Wash tight	12VDC		1 From C, 1CO				1-1721150-3
ORWH-SS-112D1F,000	Flux proof			1 From C, 1CO				1721150-5
ORWH-SH-112DM1F,000	Wash tight			1 From A, 1NO				2071448-8
ORWH-SS-112DM1F,000	Flux proof			1 From A, 1NO				2071448-2
ORWH-SH-124D1F,000	Wash tight	24VDC		1 From C, 1CO				1-1721150-5
ORWH-SS-124D1F,000	Flux proof			1 From C, 1CO				2-2071448-0
ORWH-SH-124DM1F,000	Wash tight			1 From A, 1NO				1-2071448-5
ORWH-SS-124DM1F,000	Flux proof			1 From A, 1NO				1-2071448-8
ORWH-SH-105H3F,000	Wash tight	5VDC	High temp	1 From C, 1CO	AgNi		Standard Type	2071448-6
ORWH-SS-105H3F,000	Flux proof			1 From C, 1CO				2071448-7
ORWH-SH-112H3F,000	Wash tight	12VDC		1 From C, 1CO				2071448-9
ORWH-SS-112H3F,000	Flux proof			1 From C, 1CO				1-2071448-2
ORWH-SH-112HM3F,000	Wash tight			1 From A, 1NO				1-2071448-0
ORWH-SS-112HM3F,000	Flux proof			1 From A, 1NO				1-2071448-3
ORWH-SS-118H3FH,000	Flux proof	18VDC		1 From C, 1CO			Insulation pl.	1721948-6
ORWH-SH-124H3F,000	Wash tight	24VDC		1 From C, 1CO			Standard Type	1-2071448-6
ORWH-SS-124H3F,000	Flux proof			1 From C, 1CO				1-2071448-9
ORWH-SH-124HM3F,000	Wash tight			1 From A, 1NO				1-2071448-4
ORWH-SS-124HM3F,000	Flux proof			1 From A, 1NO				1-2071448-7

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