

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	35°C, Class B or F only 50x10 ³ ops.			
Contact ratings, form A/form B	10A/6A 250VAC resistive			
	10A/6A 28VDC resistive			
Mechanical endurance, DC coil	10x10 ⁶ operations			
Coil Data				
Coil voltage range	3 to 48VDC			
Operative range, IEC 61810	2			
Call insulation quatern 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 _{ms}
between contact and coil	1500V
Clearance/creepage	******
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

Other Data					
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen conter					
refe	refer to the Product Compliance Support Center at				
WV	www.te.com/customersupport/rohssupportcente				
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



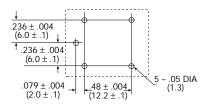
Miniature PCB Relay ORWH (Continued)

Terminal assignment

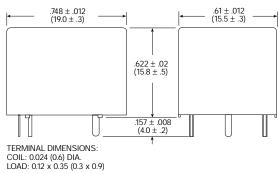
Bottom view on solder pins

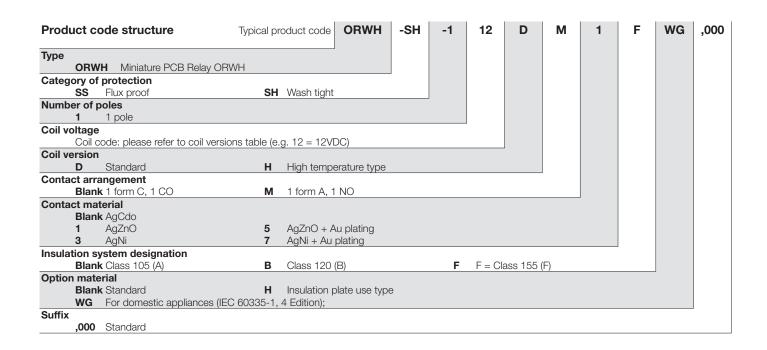


PCB layout



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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