

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 ⁶ 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 _{rms}
between contact and coil	1500V _m
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



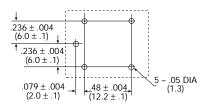
Miniature PCB Relay ORWH (Continued)

Terminal assignment

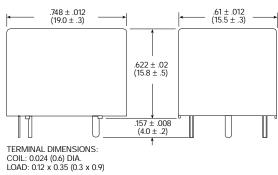
Bottom view on solder pins

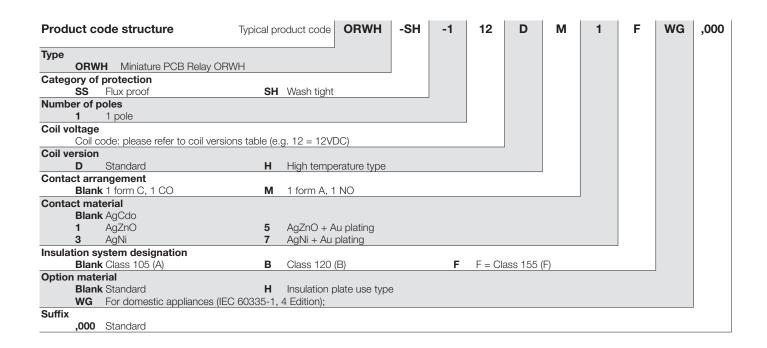


PCB layout



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

X-ON Electronics

Largest Supplier of Electrical and Electronic Components

Click to view similar products for General Purpose Relays category:

Click to view products by TE Connectivity manufacturer:

Other Similar products are found below:

PCN-105D3MH,000 59641F200 LY1SAC110120 5X827E 5X837F 5X840F 5X842F 5X848E LY2N-AC120 LY2S-AC220/240 LY2-US-AC120 LY3-US-AC120 LY4F-UA-DC12 LY4F-UA-DC24 LY4F-US-AC120 LY4F-US-AC240 LY4F-US-DC24 LY4F-VD-AC110 LYQ20DC12 M115C60 M115N010 M115N0150 6031007G 603-12D 61211T0B4 61212T400 61222Q400 61243B600 61243C500 61243Q400 61311BOA2 61311BOA6 61311BOA8 61311COA2 61311COA1 61311COA6 61311F0A2 61311QOA1 61311QOA4 61311T0B6 61311TOA6 61311TOA6 61311TOB3 61311TOB4 61311U0A6 61312Q600 61312T400 61312T600 61313U200 61313U400