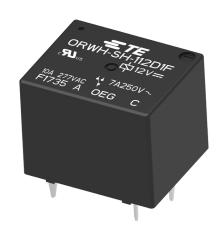


SCHRACK MINIATURE PCB RELAY ORWH

GENERAL PURPOSE LOW POWER PCB RELAYS

FEATURES

- Compact relay with 1 form A and 1 form C contact arrangement.
- 15A switching capacity
- Flux proof or sealed type available.
- 6kV dielectric strength type available



APPLICATION

- Appliances
- HVAC (Heating, Ventilation and Air Conditioning)
- · emergency lighting.

APPROVALS

- UL E82292
- TUV R50138967

Technical data of approved types on request





General Purpose Low Power PCB Relays

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.			
AgNi: 15A, 125VAC, res., +23°C	6x10 ³ ops.			
AgCdO: form A, 10A, 250VAC, res., +85°C, Class B or F only	50x10³ ops.			
AgNi: form A, 10A, 250VAC, res., +85°C, Class B or F only	50x10³ ops.			
AgZnO: 15A, 125VAC, res., +23°C	6x10³ ops.			
	10A/6A 250VAC resistive			
Contact ratings, form A/form B	10A/6A 28VDC resistive			
Mechanical endurance, DC coil	10x10 ⁶ operations			

COIL DATA

Coil voltage range	3 to 48VDC
Operative range, IEC 61810	2
Coil insulation system according UL	Class A, B, F

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	2.1	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 _{rms}				
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 content refer to the Product Compliance Suppor Center at www.te.com/customersupport/ rohssupportcenter				
Ambient temperature	-30 ~ 105°C				
Category of environmental	protection				
IEC 61810	RTII - flux proof RTIII - wash tight				
Vibration resistance (functional)	1.5mm, 10-55 Hz				
Shock resistance (functional)	10g for 11msec				
Shock resistance (destructive)	100g				
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

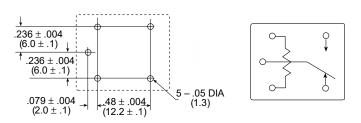
Product Code	Description				
	Socket, rated 10A at 300VAC. UL Recognized				
27E1064	for US and Canada. Designed to fit same				
	suggested board layout as relay.				

DIMENSIONS (Unit: mm)

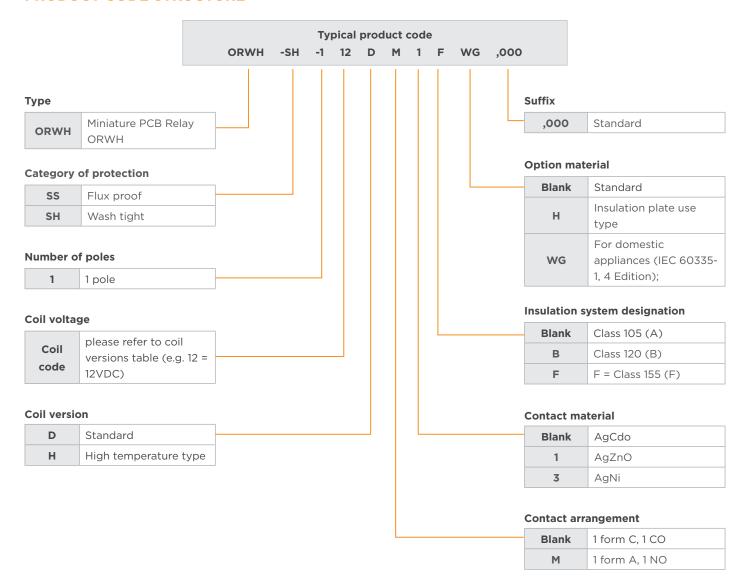
748 ± .012 (19.0 ± .3) (15.5 ±

PCB LAYOUT / TERMINAL ASSIGNMENT

Bottom view on solder pins



PRODUCT CODE STRUCTURE



PRODUCT INFORMATION

Product code	Enclosure	Coil	Coil	Arrangement	Cont.mat.	Insulation	Option	Part number		
ORWH-SH-105D1F,000	Wash tight			1 From C, 1CO			Standard	1-1721150-0		
ORWH-SS-105D1F,000	Flux proof	5VDC		1 From C, 1CO	AgZnO			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			1 From C, 1CO				1-1721150-3		
ORWH-SS-112D1F,000	Flux proof	10) /D 0	Standard	1 From C, 1CO				1721150-5		
ORWH-SH-112DM1F,000	Wash tight	12VDC Standard		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			1 From C, 1CO			Туре	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		Class F		1-2071448-8		
ORWH-SH-105H3F,000	Wash tight	E) /D.C		1 From C, 1CO		Gluss		2071448-6		
ORWH-SS-105H3F,000	Flux proof	5VDC		1 From C, 1CO				2071448-7		
ORWH-SH-112H3F,000	Wash tight			1 From C, 1CO				2071448-9		
ORWH-SS-112H3F,000	Flux proof	10) (5.0	High temp	1 From C, 1CO				1-2071448-2		
ORWH-SH-112HM3F,000	Wash tight	12VDC		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	Agivi		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		

te.com

©2025 TE Connectivity Plc. family of companies. All Rights Reserved.

TE Connectivity, SCHRACK, TE Connectivity (logo) and Every Connection Counts are trademarks. All other logos, products and/or company names referred to herein might be trademarks of their respective owners.

While TE has made every reasonable effort to ensure the accuracy of the information in this document, TE does not guarantee that it is error-free, nor does TE make any other representation, warranty or guarantee that the information is accurate, correct, reliable or current. TE reserves the right to make any changes to the information contained herein without prior notice. TE Connectivity assumes only those obligations set forth in the terms and conditions for this product and shall in no event be liable for any incidental, indirect, or consequential damages arising out of the sale, resale, use, or misapplication of the product. TE expressly disclaims any implied warranties with respect to the information contained herein, including, but not limited to, implied warranties of merchantability or fitness for a particular purpose. Dimensions, specifications and/or information contained herein are for reference purposes only and are subject to change without notice. Consult TE for the latest dimensions, specifications and/or information. Users of TE Connectivity products must make their own assessment as to whether the respective product is suitable for the respective desired application.

04/25 E

ED

