

Miniature PCB Relay OUDH

- Low profile miniature power relay
- Meets 2kV dielectric between coil and contacts
- Meets 5kV surge voltage
- **■** Immersion cleanable, sealed version available

Typical applications Appliances, HVAC, office machines





Approvals	
UL E58304	
Technical data of approved types on request	

Contact Data	
Contact arrangement	1 form A, 1 NO
Rated voltage	120VAC, 28VDC
Max. switching voltage	240VAC, 110VDC
Rated current	10A
Contact material	Ag/AgCdO, AgSnO, AgNi
Min. recommended contact load	100mA, 5VDC
Frequency of operation	1800 ops./h
Operate/release time max.	10ms/5ms
Electrical endurance	

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AgCdO: form A of form C, 7.5A, 26VAC, 85°C, General Use,

AgCdO: form A, 7.5A, 26VAC, 85°C, General Use

AgNi: 7A, 250VAC, General Use,

AgSnO: form A and B,10A, 250VAC,10A, 28VDC, General Use 6x10³ ops.

 Contact ratings
 10A 120VAC res.

 10A 28VDC res.
 1/4HP 120VAC

 Mechanical endurance, DC coil
 10x10⁶ operations

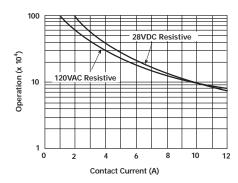
Coil Data		
Coil voltage range	5 to 48VDC	
Operative range, IEC 61810	2	
Coil insulation system according UL	Class A, F	

Coil vers	sions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	mW
003	3	2.25	0.3	20	450
005	5	3.75	0.5	56	450
006	6	4.5	0.6	80	450
009	9	6.75	0.9	180	450
012	12	9	1.2	320	450
024	24	18	2.4	1280	450
048	48	36	4.8	3500	450

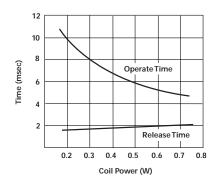
All figures are given for coil without pre-energization, at ambient temperature +23°C

Insulation Data	
Initial dielectric strength	
between open contacts	750Vrms
between contact and coil	2000Vrms
Clearance/creepage	
between open contacts	>1.6mm
between contact and coil	>3.2mm

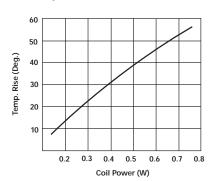
Electrical endurance



Operate time



Coil temperature rise





Miniature PCB Relay OUDH (Continued)

Dimensions

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 Ambient temperature -30°C to +60°C Category of environmental protection IEC 61810 RTII - dust protected RTIII - wash tight Shock resistance (functional) 10g Shock resistance (destructive) 100g Weight 10g Resistance to soldering heat THT IEC 60068-2-20 RTII: 270°C/10s RTIII: 260°C/5s

 7.62 ± 0.3

 5.08 ± 0.3

17.10 ± 0.3

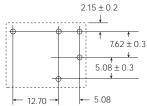
Terminal assignment

Bottom view on solder pins

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Packaging/unit

PCB layout Bottom view on solder pins



tube/40, carton box/1000

Product code structure	Typical product code OUD	H -SH -1	12	р м	F ,000
	Typical product code		'-		,,,,,,
Туре					
OUDH Miniature PCB Relay OUDH					
Category of protection					
S Solder flux type SS Flux	oroof SH Wash tigh	t l			
Contact form					
1 1 pole					
Coil voltage					
Coil code: please refer to coil versions table	e.g. 12 = 12VDC)				
Coil resistance	,				
D Standard L High	sensitivity				
Contact arrangement	•				
<u> </u>	n A, 1 NO B 1 form B,	1 NC			
Insulation system	· · · · · · · · · · · · · · · · · · ·				
·	: 155 (F)				
Suffix					
,000 Standard					

Product code	Enclosure	Coil	Arrangement	Insulation	Part number
OUDH-SH-105D,000	wash tight	5VDC	1 form C, 1 CO	Class A	7-1419145-3
OUDH-SS-112D2	Flux proof	12VDC			1721551-5
OUDH-SS-112D,000					8-1419129-0
OUDH-SH-112D,000	Wash tight				7-1419129-2
OUDH-SS-112DF,000	Flux proof			Class F	1461211-3
OUDH-SS-124D,000		24VDC		Class A	8-1419129-5
OUDH-SH-124D,000	Wash tight				7-1419129-4
OUDH-SS-124DF,000	Flux proof			Class F	1461211-1