

## **Miniature PCB Relay SDT**

### 10A contact rating

UL TV-5 rating

Approvals

- 1 form A contact arrangement
- Flux proof, wash tight version avaialable

Typical applications Appliances, HVAC, cable TV, monitor, emergency lighting

UL E58304, TUV R50137358, CQC03001002917



## Coil Data (continued)

Technical data of approved types on request		
Contact Data		
Contact arrangement	1 Form A (NO)	
Rated voltage	250VAC, 24VDC	
Max. switching voltage	250VAC, 24VDC	
Rated current	10A	
Contact material	AgSnOlnO	
Min. recommended contact load	100mA at 5VDC	
Frequency of operation	800 ops./h	
Operate/release time max.	15/8ms	
Electrical endurance		
10A 250VAC/24VDC resistive, -30°C	to +60°C 100x10 <sup>3</sup> ops.	
TV-5 120VAC, 25x10 <sup>3</sup> ops.		
Mechanical endurance, DC coil	10x10 <sup>6</sup> operations	

Coil Data	
Coil voltage range	3 to 48VDC
Operative range, IEC 61810	1
Coil insulation system according UL	Class E

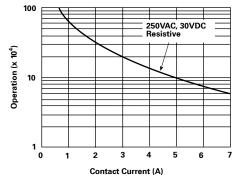
Coil versions, DC coil, D type								
Rated	Operate	Release	Coil	Rated coil				
voltage	voltage	voltage	resistance	power				
VDC	VDC	VDC	Ω±10%	mW				
3	2.25	0.30	16.7	540				
5	3.75	0.50	46.3	540				
6	4.50	0.60	66.7	540				
9	6.75	0.90	150	540				
12	9.00	1.20	267	540				
18	13.50	1.80	600	540				
24	18.00	2.40	1067	540				
48	36.00	4.80	4267	540				
	Rated voltage VDC 3 5 6 9 12 18 24	Rated Operate   voltage voltage   VDC VDC   3 2.25   5 3.75   6 4.50   9 6.75   12 9.00   18 13.50   24 18.00	Rated Operate Release   voltage voltage voltage   VDC VDC VDC   3 2.25 0.30   5 3.75 0.50   6 4.50 0.60   9 6.75 0.90   12 9.00 1.20   18 13.50 1.80   24 18.00 2.40	Rated Operate Release Coil   voltage voltage voltage resistance   VDC VDC VDC Ω±10%   3 2.25 0.30 16.7   5 3.75 0.50 46.3   6 4.50 0.60 66.7   9 6.75 0.90 150   12 9.00 1.20 267   18 13.50 1.80 600   24 18.00 2.40 1067				

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

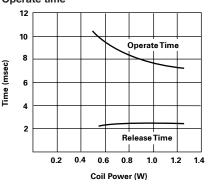
## **Insulation Data**

Initial dielectric strength		
between open contacts	900V <sub>rms</sub>	
between contact and coil	4000V <sub>rms</sub>	
Clearance/creepage		
between contact and coil	>1.6/3.2mm	

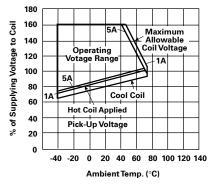
#### **Electrical endurance**



## Operate time



## Coil operative range



Datasheets and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section. Datasheets and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Datasheets, product data, 'Definitions' section, application notes and all specifications are subject to change.

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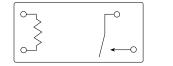
# Miniature PCB Relay SDT (Continued)

## Other Data

• and Bata					
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen conten					
refer to the	refer to the Product Compliance Support Center at				
www.te.co	www.te.com/customersupport/rohssupportcenter				
Ambient temperature	-30°C to +60°C				
Category of environmental protection	1				
IEC 61810	RTII - flux proof,				
	RTIII - wash tight				
Shock resistance (functional)	10g				
Shock resistance (destructive)	100g				
Weight	11g				
Resistance to soldering heat THT					
IEC 60068-2-20	RTII: 270°C/10s				
	RTIII: 260°C/5s				
Packaging/unit	tube/25 pcs., carton box/1000 pcs.				
	tray/100 pcs., carton box/1000 pcs.				

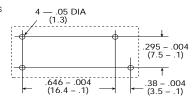
#### Terminal assignment

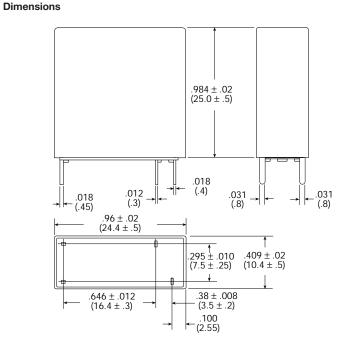
Bottom view on solder pins



## PCB layout

Bottom view on solder pins





Product code structure	Typical product code	SDT	-SS	-1	12	D	Μ	,000
Basic type SDT Miniature PCB Relay SDT								
Enclosure								
SF Flux proof, vented plastic cover SH Wash tight, sealed plastic cover								
Number of poles				1				
1 1 pole								
Coil voltage								
Coil code: please refer to coil versions table (e.g. 05=5VDC)								
Coil input						·		
D Standard								
Contact arrangement								
M 1 form A (NO) contact								
Suffix								
,000 Standard								
Other types on request								

Product code	Enclosure	Coil voltage	Coil input	Arrangement	Suffix	Part number
SDT-SH-112DM,000	Wash tight	12VDC	Standard	1 form A (NO)	Standard	1419126-5
SDT-SH-124DM,000		24VDC				1-1419126-0
SDT-SS-105DM,000	Flux proof	5VDC				1-1419126-2
SDT-SS-109DM,000		9VDC				1-1419126-5
SDT-SS-112DM,000		12VDC				1-1419126-8
SDT-SS-124DM,000		24VDC				2-1419126-5

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