



الحمادي للإلكترونيات  
ALHAMMADI FOR ELECTRONICS

### Typical applications

Appliances, HVAC, cable TV, monitor, emergency lighting



### Approvals

UL E58304, TUV R50137358, CQC03001002917

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	AgSnOInO
Min. recommended contact load	100mA at 5VDC
Frequency of operation	800 ops./h
Operate/release time max.	15/8ms

10A 250VAC/24VDC resistive, -30°C to +60°C 100x10<sup>3</sup> ops. All figures are given for coil without pre-energization, at ambient temperature +23°C. TV-5 120VAC, 25x10<sup>3</sup> ops.

Mechanical endurance, DC coil	10x10 <sup>6</sup> operations
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### Coil Data

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

### Coil Data (continued)

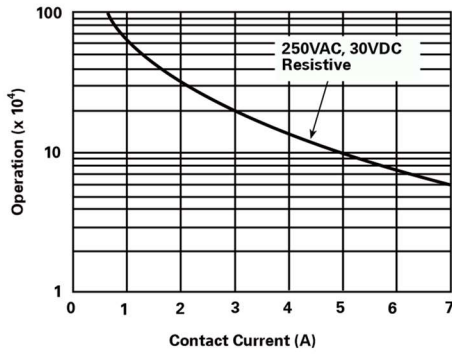
#### Coil versions, DC coil, D type

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power mW
003	3	2.25	0.30	16.7	540
005	5	3.75	0.50	46.3	540
006	6	4.50	0.60	66.7	540
009	9	6.75	0.90	150	540
012	12	9.00	1.20	267	540
018	18	13.50	1.80	600	540
024	24	18.00	2.40	1067	540
048	48	36.00	4.80	4267	540

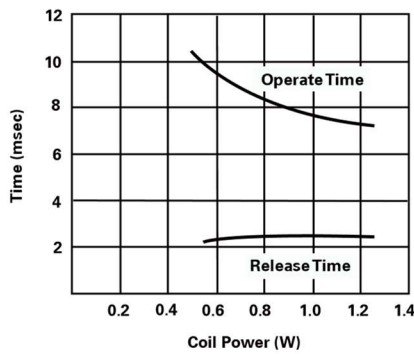
### Insulation Data

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

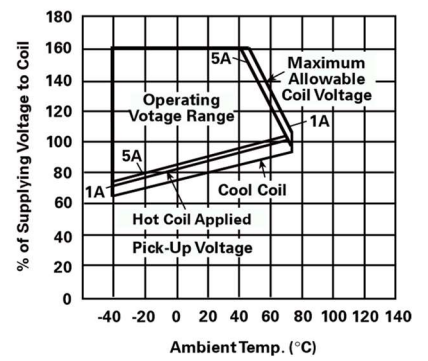
**Electrical endurance**



**Operate time**



**Coil operative range**



04-2011, Rev. 0411 Datasheets and product specification Datasheets and product data is subject to the Datasheets, product data, 'Definitions' section according to IEC 61810-1 and to be used terms of the disclaimer and all chapters of tion, application notes and all specifications © 2011 Tyco Electronics Corporation, only together with the 'Definitions' section. the 'Definitions' section, available at are subject to change.  
 a TE Connectivity Ltd. company <http://relays.te.com/definitions>

**Miniature PCB Relay SDT (Continued)**

**Other Data**

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at [www.te.com/customer-support/rohssupportcenter](http://www.te.com/customer-support/rohssupportcenter)

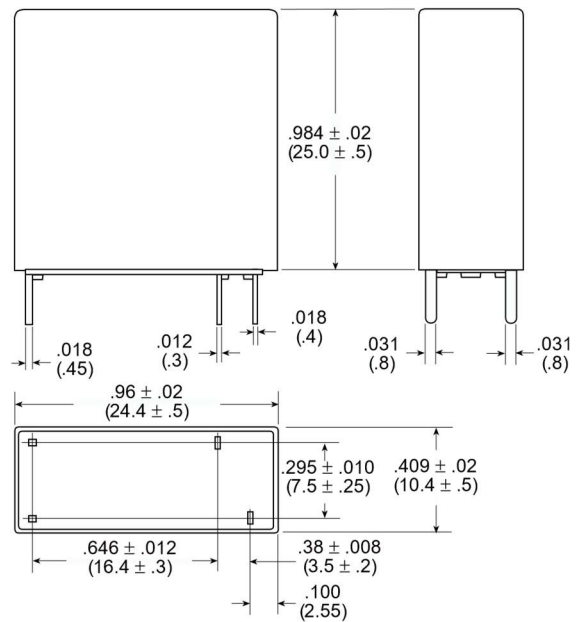
Ambient temperature -30°C to +60°C  
 Category of environmental protection IEC 61810

Shock resistance (functional) 10g  
 Shock resistance (destructive) 100g  
 Weight 11g

Resistance to soldering heat THT IEC 60068-2-20  
 RTII - flux proof, RTIII - wash tight  
 RTII: 270°C/10s  
 RTIII: 260°C/5s

Packaging/unit tube/25 pcs., carton box/1000 pcs. tray/100 pcs., carton box/1000 pcs.

**Dimensions**



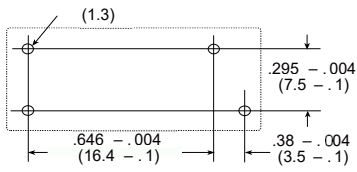
**Terminal assignment**



Bottom view on solder pins

**PCB layout**

Bottom view on solder pins 4 — .05 DIA



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