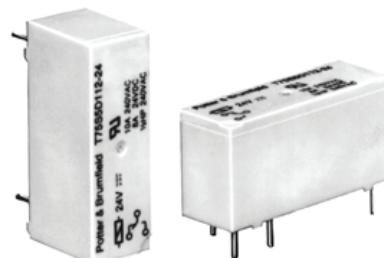


## Low profile, PCB Relay T75 Series

- 1 pole 8A, 1 form C (CO) or 1 form A (NO) contact
- 4kV/8mm coil-contact
- Reinforced insulation (protection class II)
- Ambient temperature up to 85°C at 8A
- Plastic materials according to IEC60335-1 (domestic appliances)

Typical applications  
HVAC, security and industrial control, domestic appliances.



## Approvals

VDE Cert. No. 3919, UL E214025

Technical data of approved types on request.

## Contact Data

|   |                                |
|---|--------------------------------|
| Contact arrangement                       | 1 form C (CO) or 1 form A (NO) |
| Rated voltage                             | 250VAC                         |
| Max. switching voltage                    | 400VAC                         |
| Rated current                             | 8A                             |
| Limiting making current, max 4s, df 10%   | 15A                            |
| Breaking capacity max.                    | 2000VA                         |
| Contact material                          | AgCdO                          |
| Min. recommended contact load             | 100mA at 12VDC                 |
| Minimum switching voltage                 | 5VDC                           |
| Initial contact resistance                | 100mΩ at 100mA, 12VDC          |
| Frequency of operation, with/without load | 6/1200min⁻¹                    |
| Operate/release time max.                 | 10/5ms                         |
| Bounce time max., form A/form B           | 3/10ms                         |

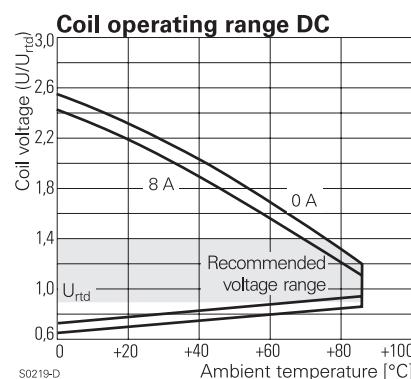
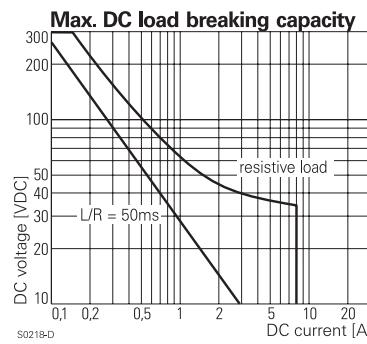
## Electrical endurance

| Type | Contact | Load                      | Cycles  |
|------|---------|---------------------------|---------|
| T75  |         | 8Arms, 240VAC, resistive  | 100x10³ |
| T75  | A (NO)  | 14Arms, 120VAC, resistive | 50x10³  |
| T75  | B (NC)  | 5Arms, 120VAC, resistive  | 50x10³  |
| T75  |         | 7.2 FLA / 45 LRA, 120 VAC | 30x10³  |
| T75  |         | 5 FLA / 30 LRA, 240 VAC   | 10x10³  |

## Contact ratings

| Type | Contact | Load                               | Cycles  |
|------|---------|------------------------------------|---------|
| T75  | A (NO)  | TV4, Tungsten, 120VAC, 40°C        | 25x10³  |
| T75  | C (CO)  | 10A, 240VAC, general purpose, 40°C | 6x10³   |
| T75  | C (CO)  | 8A, 24VDC, general purpose, 40°C   | 100x10³ |
| T75  | C (CO)  | 1/3HP, 120VAC, 40°C                | 30x10³  |
| T75  | C (CO)  | 1/2HP, 240VAC, 40°C                | 30x10³  |

Mechanical endurance, DC coil      10x10⁶ operations



|  |                      |
|--|----------------------|
| Initial dielectric strength<br>between open contacts | 1000V <sub>rms</sub> |
| between contact and coil                             | 4000V <sub>rms</sub> |
| Clearance/creepage<br>between contact and coil       | ≥ 8/8mm              |
| Material group of insulation parts                   | IIIa                 |

## Low profile, PCB Relay T75 Series (Continued)

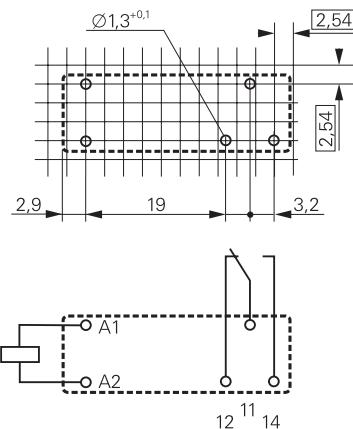
**Other Data**

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

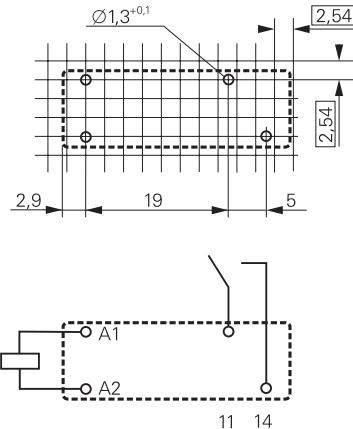
|  |   |
|--|---|
| Ambient temperature                                | - 40 to +85°C                           |
| Category of environmental protection               | RTII - flux proof<br>RTIII - wash tight |
| IEC 61810  |   |
| Vibration resistance (functional)                  |   |
| form A (NO) / form B (NC)                          | 10/4g                                   |
| Vibration resistance (destructive)                 |   |
| form A (NO) / form B (NC)                          | 20/5g                                   |
| Shock resistance (destructive)                     | 100g                                    |
| Terminal type                                      | PCB-THT                                 |
| Weight   | 11g                                     |
| Resistance to soldering heat THT<br>IEC 60068-2-20 | RTIII: 260°C/5s                         |
| Packaging/unit                                     | tube/20 pcs., box/1000 pcs.             |

**PCB layout / terminal assignment**

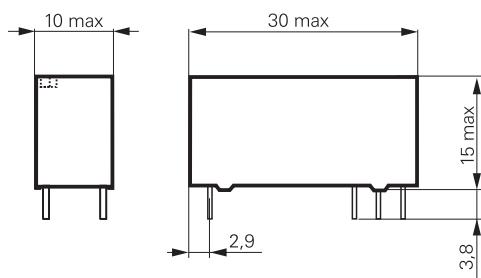
1 form C, 1 CO contact, 3.2mm



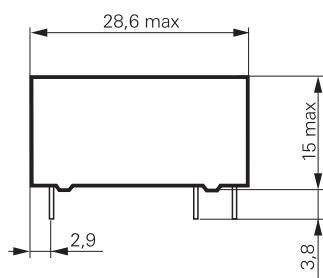
1 form A, 1 NO contact, 5mm


**Dimensions**

1 form C, 1 CO contact, 3.2mm



1 form A, 1 NO contact, 5mm



## Low profile, PCB Relay T75 Series (Continued)

## Product code structure

 Typical product code **T75** **S** **5** **D** **1** **1** **2** **-12**

## Type

**T75** Low profile, printed circuit board relay T75 Series

## Enclosure

**S** RTIII - wash tight

## Contact arrangement

**1** 1 form A, 1 NO

**5** 1 form C, 1 CO

## Coil input

**D** DC voltage

## Coil Configuration

**1** Single coil, monostable (non-latching)

## Mounting and terminals

**1** PCB terminals

## Contact materials

**2** AgCdO

## Coil voltage

Coil code: please refer to coil versions table (e.g. 05=5VDC)

| Product code | Arrangement    | Enclosure          | Coil  | Part Number |
|--------------|----------------|--------------------|-------|-------------|
| T75S1D112-05 | 1 form A, 1 NO | RTIII - wash-tight | 5VDC  | 1393222-7   |
| T75S1D112-06 |                |                    | 6VDC  | 5-1393223-2 |
| T75S1D112-12 |                |                    | 12VDC | 2-1393222-9 |
| T75S1D112-24 |                |                    | 24VDC | 4-1393222-8 |
| T75S5D112-05 | 1 form C, 1 CO |                    | 5VDC  | 7-1393222-6 |
| T75S5D112-09 |                |                    | 9VDC  | 9-1393222-0 |
| T75S5D112-12 |                |                    | 12VDC | 1393223-3   |
| T75S5D112-18 |                |                    | 18VDC | 1-1393223-6 |
| T75S5D112-24 |                |                    | 24VDC | 2-1393223-8 |
| T75S5D112-48 |                |                    | 48VDC | 4-1393223-1 |
| T75S5D112-60 |                |                    | 60VDC | 1423089-1   |

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