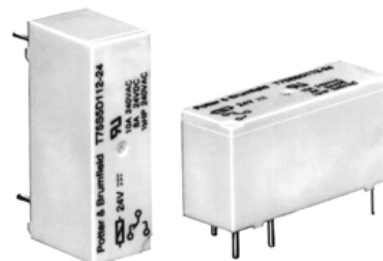


## Low profile, PCB Relay T75 Series

- 1 pole 8A, 1 form C (CO) or 1 form A (NO) contact
- 4kV/8mm coil-contact
- Reinforced insulation (protection classII)
- 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 <sup>-1</sup>
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	100x10 <sup>3</sup>
T75	A (NO)	14Arms, 120VAC, resistive	50x10 <sup>3</sup>
T75	B (NC)	5Arms, 120VAC, resistive	50x10 <sup>3</sup>
T75		7.2 FLA / 45 LRA, 120 VAC	30x10 <sup>3</sup>
T75		5 FLA / 30 LRA, 240 VAC	10x10 <sup>3</sup>

### Contact ratings

Type	Contact	Load	Cycles
T75	A (NO)	TV4, Tungsten, 120VAC, 40°C	25x10 <sup>3</sup>
T75	C (CO)	10A, 240VAC, general purpose, 40°C	6x10 <sup>3</sup>
T75	C (CO)	8A, 24VDC, general purpose, 40°C	100x10 <sup>3</sup>
T75	C (CO)	1/3HP, 120VAC, 40°C	30x10 <sup>3</sup>
T75	C (CO)	1/2HP, 240VAC, 40°C	30x10 <sup>3</sup>

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

### Coil Data

Coil voltage range	3 to 60VDC
Operative range, IEC 61810	2
Coil insulation system according UL	classA

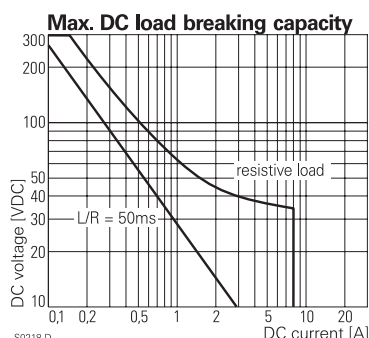
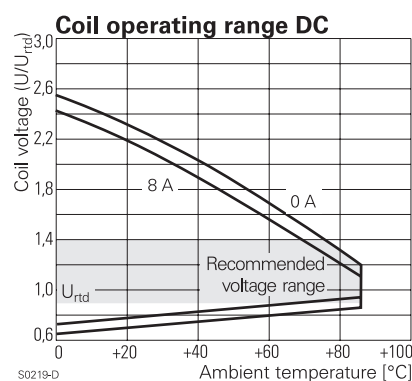
### Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10% <sup>1)</sup>	Rated coil power mW
03	3	2.1	0.3	40	225
05	5	3.4	0.5	118	212
06	6	4.1	0.6	165	218
09	9	6.1	0.9	364	223
12	12	8.2	1.2	652	221
24	24	16.3	2.4	2270	254
48	48	32.6	4.8	8790	262
60	60	40.8	6.0	15265 <sup>1)</sup>	236

1) Coil resistance ±15%.

All figures are given for coil without pre-energization, at ambient temperature +23°C.  
Other coil voltages on request.

### Insulation Data



Initial dielectric strength	
between open contacts	1000V <sub>ms</sub>
between contact and coil	4000V <sub>ms</sub>
Clearance/creepage	
between contact and coil	≥8/8mm
Material group of insulation parts	IIla

## 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  
IEC 61810

RTII - flux proof  
RTIII - wash tight

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

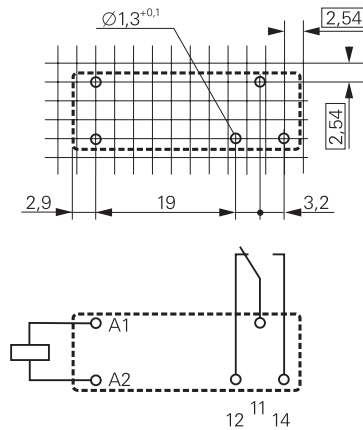
IEC 60068-2-20 RTIII: 260°C/5s

Packaging/unit

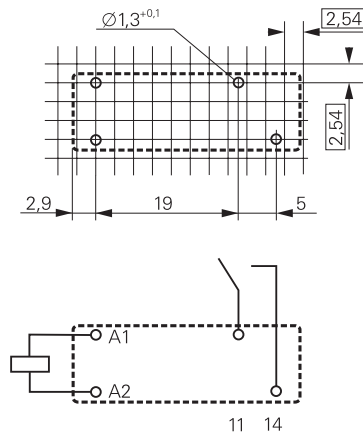
tube/20 pcs., box/1000 pcs.

### PCB layout / terminal assignment

1 form C, 1 CO contact, 3.2mm

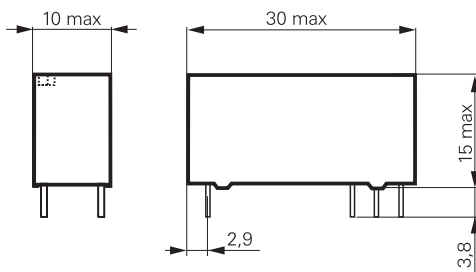


1 form A, 1 NO contact, 5mm

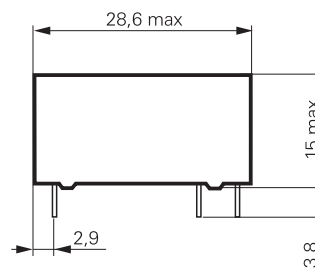


### Dimensions

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							
		<b>T75</b>	<b>S</b>	<b>5</b>	<b>D</b>	<b>1</b>	<b>1</b>	<b>2</b>	<b>-12</b>
<b>Type</b>		Low profile, printed circuit board relay T75 Series							
<b>Enclosure</b>		RTIII - wash tight							
<b>Contact arrangement</b>		1 form A, 1 NO 5 1 form C, 1 CO							
<b>Coil input</b>		DC voltage							
<b>Coil Configuration</b>		Single coil, monostable (non-latching)							
<b>Mounting and terminals</b>		PCB terminals							
<b>Contact materials</b>		AgCdO							
<b>Coil voltage</b>		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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[T75S5D112-18](#)