

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	d 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	100x10 ³
T75	A (NO)	14Arms, 120VAC, resistive	50x10 ³
T75	B (NC)	5Arms, 120VAC, resistive	50x10 ³
T75		7.2 FLA / 45 LRA, 120 VAC	30x10 ³
T75		5 FLA / 30 LRA, 240 VAC	10x10 ³

Contact ratings

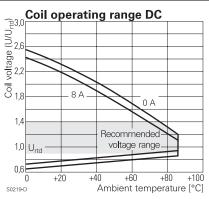
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Туре	Contact	Load	Cycles
T75	A (NO)	TV4, Tungsten, 120VAC, 40°C	25x10 ³
T75	C (CO)	10A, 240VAC, general purpose, 40°C	6x10 ³
T75	C (CO)	8A, 24VDC, general purpose, 40°C	100x10 ³
T75	C (CO)	1/3HP, 120VAC, 40°C	30x10 ³
T75	C (CO)	1/2HP, 240VAC, 40°C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

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

Coil vers	sions, DC co	il			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	$\Omega \pm 10\%^{1)}$	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 ¹⁾	236

¹⁾ Coil resistance ±15%.

Insulation Data



Initial dielectric strength		
between open contacts	1000V _{rms}	
between contact and coil	4000V _{ms}	
Clearance/creepage	HIO	
between contact and coil	≥8/8mm	
Material group of insulation parts	IIIa	

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Mechanical endurance, DC coil

Catalog and product specification according to IEC 61810-1 and to be used only together with the 'Definitions' section.

10x10⁶ operations

Catalog 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

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

All figures are given for coil without pre-energization, at ambient temperature $+23^{\circ}$ C. Other coil voltages on request.



Low profile, PCB Relay T75 Series (Continued)

Other Data

Packaging/unit

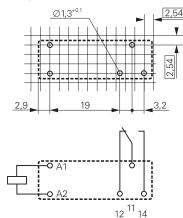
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customersupport/rohssupportcenter

Ambient temperature 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) 20/5g form A (NO) / form B (NC) Shock resistance (destructive) 100g Terminal type PCB-THT Weight 11g Resistance to soldering heat THT IEC 60068-2-20 RTIII: 260°C/5s

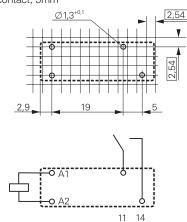
tube/20 pcs., box/1000 pcs.

PCB layout / terminal assignment

1 form C, 1 CO contact, 3.2mm

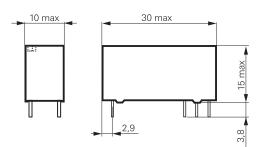


1 form A, 1 NO contact, 5mm

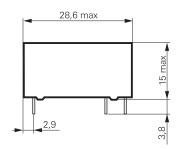


Dimensions

1 form C, 1 CO contact, 3.2mm

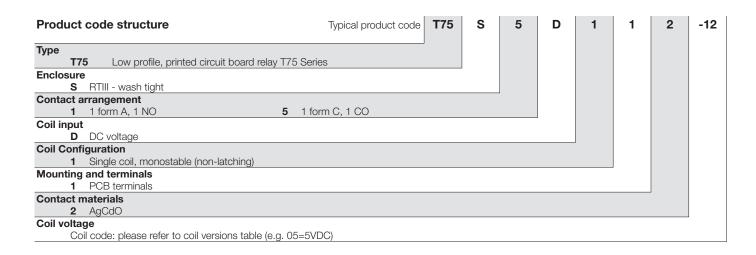


1 form A, 1 NO contact, 5mm





Low profile, PCB Relay T75 Series (Continued)



Product code	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