

Miniature Power PCB Relay T7S

- 10/6A, 1 form C (CO) or 1 form A (NO) contact
- Sensitive 360mW coil
- Version T7S-WG with tracking resistance PTI 325 on relay base and cover
- WG version: Product in accordance to IEC 60335-1



F_T7S_B

Typical applications
Domestic appliances, heating control, building control, measurement&control



Approvals

T7S / T7S-WG: VDE B265, UL E82292
Technical data of approved types on request

Contact Data	T7S**E	T7S**H
Contact arrangement	1 form C (1 CO) 1 form A (1 NO)	1 form C (1 CO) 1 form A (1 NO)
Rated voltage	240VAC	240VAC
Max. switching voltage	400VAC	400VAC
Rated current	10A	6A
Breaking capacity max.	2500VA	
Contact material	AgNi 90/10, AgZnO	
Frequency of operation, with/without load	600/18000h ⁻¹	
Operate/release time max.	7/3ms	
Bounce time max., form A / form B	3/2ms	

Contact ratings

Type	Contact	Load	Cycles
IEC 61810			
T7SV5E	A of C	10A, 250VAC, cosφ=1, 85°C	50x10 ³
T7SV5E4	A of C	10.5A, 250VAC, cosφ=1, 70°C	100x10 ³
T7SV1E	A (NO)	10A, 250VAC, cosφ=1, 85°C	50x10 ³
T7SV1E4	A (NO)	10.5A, 250VAC, cosφ=1, 70°C	100x10 ³
T7SV5H	A of C	6A, 250VAC, cosφ=1, 105°C	100x10 ³
T7SV1H	A (NO)	6A, 250VAC, cosφ=1, 105°C	100x10 ³
UL 508			
T7SV...E	A (NO)	10A, 250VAC, resistive, 85°C	50x10 ³
T7SV...H	A (NO)	6A, 250VAC, resistive, 105°C	100x10 ³

Mechanical endurance, DC coil >10x10⁶ operations

Coil Data

Coil voltage range	5 to 36 VDC
Operative range, IEC 61810	2
Coil power typical	360 mW
Coil insulation system according UL1446	class F

Coil versions, DC coil

Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated power mW
05	5	3.5	0.5	70	357
06	6	4.2	0.6	100	360
09	9	6.3	0.9	225	360
12	12	8.4	1.2	400	360
18*	18	12.6	1.8	900	360
24	24	16.8	2.4	1600	360
36	36	25.2	3.6	3600	360

1) 18VDC coil: UL approval only, not registered with VDE.

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	750V _{rms}
between contact and coil	1500V _{rms}
Clearance/creepage	
between contact and coil	≥2.5/2.5mm
Material group of insulation parts	IIIa
Tracking index of relay base	PTI325

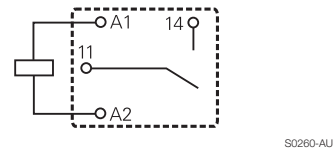
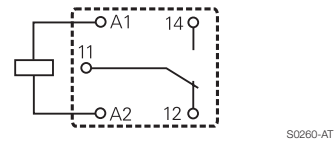
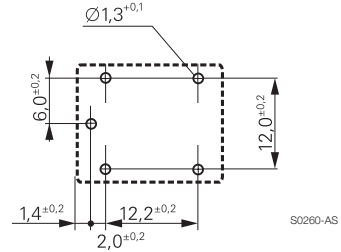
Other Data

	T7S**E	T7S**H
Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at www.te.com/customer-support/rohssupportcenter		
Resistance to heat and fire	according EN60335, par.30	
Ambient temperature	-40 to 85°C	-40 to 105°C
Category of environmental protection	IEC 61810 RTII - flux proof, RTIII - wash tight	
Vibration resistance (functional), form A/form B	>14/8g	
Shock resistance (destructive)	100g	
Terminal type	PCB-THT	
Weight	11g	
Resistance to soldering heat THT, IEC 60068-2-20		
flux proof version	270°C/10s	
wash tight version	260°C/5 s	
Packaging/unit	tube/35 pcs., box/1400 pcs.	

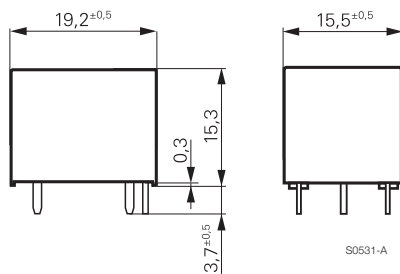
Miniature Power PCB Relay T7S (Continued)

PCB layout / terminal assignment

Bottom view on solder pins



Dimensions



Product code structure

Typical product code **T7S V 1 E 6 -06**

Type	T7S Miniature Power PCB Relay T7S				
Version	S Wash tight	V Flux proof			
Contact configuration	1 1 form A contact (1 NO)	5 1 form C contact (1 CO)			
Coil version	H DC coil 360mW, 105°C	E DC coil 360mW, 85°C			
Contact material	4 AgNi 90/10	6 AgZnO			
Coil	Coil code: please refer to coil versions table				
Version	Blank T7S standard version				
	WG Product in accordance with IEC 60335-1				

Other types on request

Miniature Power PCB Relay T7S (Continued)

Product code	Version	Cont. material	Cont.arrangement	Coil	Part number	
T7SV1E6-05	Flux proof	AgZnO	1 form A	5VDC	1721382-1	
T7SV1E6-06			1 NO contact	6VDC	1721382-2	
T7SV1E6-09				9VDC	1721382-3	
T7SV1E6-12				12VDC	1721382-4	
T7SV1E6-24				24VDC	1721382-5	
T7SV5E6-05				1 form C	5VDC	1721381-1
T7SV5E6-06				1 CO contact	6VDC	1721381-2
T7SV5E6-09					9VDC	1721381-3
T7SV5E6-12					12VDC	1721381-4
T7SV5E6-24					24VDC	1721381-5
T7SV1E6-05-WG	Flux proof according IEC 60335-1		1 form A	5VDC	2-1721382-5	
T7SV1E6-06-WG			1 NO contact	6VDC	2-1721382-6	
T7SV1E6-09-WG				9VDC	2-1721382-7	
T7SV1E6-12-WG				12VDC	2-1721382-8	
T7SV1E6-24-WG				24VDC	2-1721382-9	
T7SV5E6-05-WG				1 form C	5VDC	2-1721381-5
T7SV5E6-06-WG				1 CO contact	6VDC	2-1721381-6
T7SV5E6-09-WG					9VDC	2-1721381-7
T7SV5E6-12-WG					12VDC	2-1721381-8
T7SV5E6-24-WG					24VDC	2-1721381-9
T7SS1E6-05	Wash tight		1 form A	5VDC	1721382-7	
T7SS1E6-06			1 NO contact	6VDC	1721382-8	
T7SS1E6-09				9VDC	1721382-9	
T7SS1E6-12				12VDC	1-1721382-0	
T7SS1E6-24				24VDC	1-1721382-1	
T7SS5E6-05				1 form C	5VDC	1721381-7
T7SS5E6-06				1 CO contact	6VDC	1721381-8
T7SS5E6-09					9VDC	1721381-9
T7SS5E6-12					12VDC	1-1721381-0
T7SS5E6-24					24VDC	1-1721381-1
T7SS1E6-05-WG	Wash tight according IEC 60335-1		1 form A	5VDC	3-1721382-1	
T7SS1E6-06-WG			1 NO contact	6VDC	3-1721382-2	
T7SS1E6-09-WG				9VDC	3-1721382-3	
T7SS1E6-12-WG				12VDC	3-1721382-4	
T7SS1E6-24-WG				24VDC	3-1721382-5	
T7SS5E6-05-WG				1 form C	5VDC	3-1721381-1
T7SS5E6-06-WG				1 CO contact	6VDC	3-1721381-2
T7SS5E6-09-WG					9VDC	3-1721381-3
T7SS5E6-12-WG					12VDC	3-1721381-4
T7SS5E6-24-WG					24VDC	3-1721381-5
T7SV1E4-05	Flux proof	AgNi 90/10	1 form A	5VDC	1721735-1	
T7SV1E4-06			1 NO contact	6VDC	1721735-2	
T7SV1E4-09				9VDC	1721735-3	
T7SV1E4-12				12VDC	1721733-4	
T7SV1E4-24				24VDC	1721735-5	
T7SV5E4-05				1 form C	5VDC	1721734-1
T7SV5E4-06				1 CO contact	6VDC	1721734-2
T7SV5E4-09					9VDC	1721734-3
T7SV5E4-12					12VDC	1721734-4
T7SV5E4-24					24VDC	1721734-5
T7SV1E4-05-WG	Flux proof according IEC 60335-1		1 form A	5VDC	2-1721735-5	
T7SV1E4-06-WG			1 NO contact	6VDC	2-1721735-6	
T7SV1E4-09-WG				9VDC	2-1721735-7	
T7SV1E4-12-WG				12VDC	2-1721735-8	
T7SV1E4-24-WG				24VDC	2-1721735-9	
T7SV5E4-05-WG				1 form C	5VDC	2-1721734-5
T7SV5E4-06-WG				1 CO contact	6VDC	2-1721734-6
T7SV5E4-09-WG					9VDC	2-1721734-7
T7SV5E4-12-WG					12VDC	2-1721734-8
T7SV5E4-24-WG					24VDC	2-1721734-9