

Power PCB Relay T9E

- 1 pole 30A, 1 formA(NO) or 1 formC(CO)
- High breaking capacity 7500 VA
- **PCB and PCB/quick connect terminals**
- UL class F insulation as standard
- Ambient temperature up to 105°C
- Plastic materials according to IEC60335-1

Typical applications

HVAC, power supplies, domestic appliances, measurement and control.









Approvals

VDE 40027903, UL E58304

Technical data of approved types on request.

Contact Data		
Contact arrangement	1 form A (NO)	1 form C (CO)
Rated voltage	240	VAC
Max. switching voltage	250VAC (VDE	E); 300VAC (UL)
Rated current	30A	20A/10A
Limiting continuous current	30A	
Breaking capacity max.	7500VA	5000/2500VA
Contact material	AgSnOlnO (A	gCdO optional)
Min. recommended contact load	1A, 5VDC	or 12VAC
Initial contact resistance	75 mΩ at 1A at	5VDC or 12VAC
Frequency of operation, with/witho	ut load 6/	120min ⁻¹
Operate/release time max., includir	ng bounce 15/	15ms

Can	taat	ratin	~
Con	tact	ratin	gs

Contac	t ratings		
Type	Contact	Load	Cycles
IEC 618	310		
AgSnOli	nO, 1W coil		
1	NO	30A, 250VAC, cosφ=1, 60°C	20x10 ³
1	NO	20A, 250VAC, cosφ=1, 85°C	100x10 ³
2	NO	20A, 250VAC, cosφ=1, 70°C	100x10 ³
1, 2	CO	20A / 10A, 250VAC, cosφ=1, 60°C	20x10 ³
AgSnOli	nO, 900mW ca	oil	
1	NO	17A, 250VAC, cosφ=1, 105°C	100x10 ³
1	NO	20A, 250VAC, cosφ=1, 85°C	100x10 ³
EN 607	30-1		
AgSnOl	nO, 1W coil		
1	NO	12(12)A, 240VAC, 60°C	100x10 ³
UL 508	1)		
AgSnOl	nO, 1W coil		
1, 2	NO	30A, 240VAC, general purpose, 25°C	100x10 ³
AgSnOli	nO, 900mW ca	oil	
1, 2	NO	TV-8, 125VAC, 25°C	25x10 ³
1) Additio	onal UL 508 rating	gs are available.	

Mechanical endurance	10x10 ⁶ ops.
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Coil Data		
Coil voltage range	6 to 110VDC	
Max. coil power	110% of nominal	
Max. coil temperature	155°C	
Coil insulation system according UL	Class F	

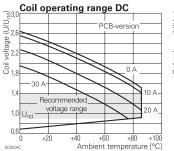
Coil Data (continued)

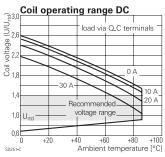
Coil	versions.	DC	coil
COII	versions.		COII

Oon vers	sions, DO co	711			
Coil	Rated	Operate	Release	Coil	Rated coil
code	voltage	voltage	voltage	resistance	power
	VDC	VDC	VDC	Ω±10%	W
Code D	(1W) coil				
6	6	4.5	0.6	36	1
9	9	6.75	0.9	81	1
12	12	9	1.2	144	1
18	18	13.5	1.8	324	1
22	22	16.5	2.2	484	1
24	24	18	2.4	576	1
48	48	36.2	4.8	2304	1
110	110	82.5	11	12100	1
Code L	(900mW) coil				
6	6	4.5	0.6	40	.9
12	12	9	1.2	155	.9
18	18	13.5	1.8	380	.9
24	24	18	2.4	660	.9

All figures are given for coil without preenergization, at ambient temperature +23°C.

Insulation Data Initial dielectric strength between open contacts 1500V_{rms} between contact and coil 2500V_{rms} Initial surge withstand voltage 6kV (1.2μs/50μs impulse wave) Initial insulation resistance 500V_{rms} between insulated elements 1x10°Ω Clearance/creepage 23mm/4mm





Coil operating ranges shown above are for 1W coils.



Power PCB Relay T9E (Continued)

O:	th	er	D	a	ta

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

DC coil

-40°C to 85°C / 105°C

Category of environmental protection IEC 61810

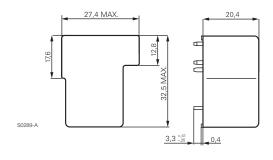
RTII - flux proof (T9EV) RTIII - wash tight (T9ES)

Vibration resistance (functional) Shock resistance (functional) Shock resistance (destructive) 1.5mm, 10-55 Hz 10g for 11msec 100g

Other Data (Continued)	
Terminal type	PCB-tht and PCB-tht + quick
connect	
Weight	26g mounting code 1
	33g mounting codes 2 and 5
Resistance to soldering heat THT	
IEC 60068-2-20	260°C
Packaging/unit	tray/50 pcs., box/250 pcs.

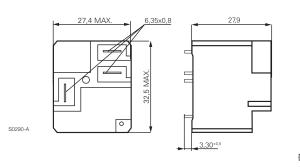
Dimensions

PCB version





PCB/quick connect version





Terminal assignment

Bottom view on pins

1 form A

1 form C

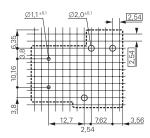




PCB layout

Bottom view on pins

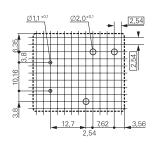
PCB version



Only necessary terminals are present on single throw models. Consequently, some holes will be unnecessary for single throw models.

S0261-AA

PCB/quick connect version



Only necessary terminals are present on single throw models. Consequently, some holes will be unnecessary for single throw models.

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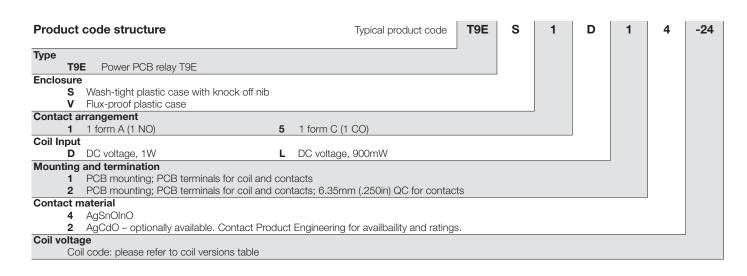
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Catalog and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

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



Power PCB Relay T9E (Continued)



Product Code	Enclosure	Mounting	Contact material	Contacts	Coil version	Coil voltage	Part number
T9ES1L14-18	wash tight	PCB terminals	AgSnOlnO	1 form A, 1 NO	900mW	18VDC	1-2027234-8
T9ES1D14-12					1W	12VDC	2027234-2
T9ES1D14-24						24VDC	2027234-7
T9ES1D12-12			AgCdO			12VDC	1-2027234-0
T9ES1D24-12		PCB + quick connect	AgSnOlnO			12VDC	2027234-8
T9ES1D22-12			AgCdO			12VDC	1-2027243-3
T9ES5D14-12		PCB terminals	AgSnOlnO	1 form C, 1 CO		12VDC	2027234-6
T9ES5D12-24			AgCdO			24VDC	2027234-4
T9ES5D24-12		PCB + quick connect	AgSnOlnO			12VDC	2027234-9
T9EV1D14-22	flux proof	PCB terminals		1 form A, 1 NO		22VDC	2027234-5

单击下面可查看定价,库存,交付和生命周期等信息

>>TE Connectivity(泰科)