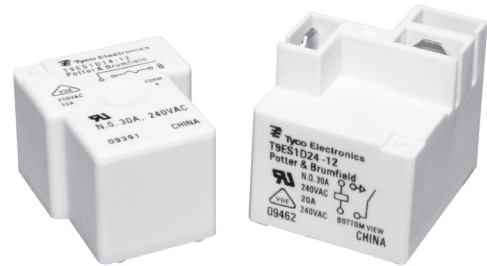


**Power PCB Relay T9E**

- 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	240VAC	
Max. switching voltage	250VAC (VDE); 300VAC (UL)	
Rated current	30A	20A/10A
Limiting continuous current	30A	
Breaking capacity max.	7500VA	5000/2500VA
Contact material	AgSnOInO (AgCdO optional)	
Min. recommended contact load	1A, 5VDC or 12VAC	
Initial contact resistance	75 mΩ at 1A at 5VDC or 12VAC	
Frequency of operation, with/without load	6/120min <sup>-1</sup>	
Operate/release time max., including bounce	15/15ms	

**Contact ratings**

Type	Contact	Load	Cycles
------	---------	------	--------

**IEC 61810**

AgSnOInO, 1W coil			
1	NO	30A, 250VAC, cosφ=1, 60°C	20x10 <sup>3</sup>
1	NO	20A, 250VAC, cosφ=1, 85°C	100x10 <sup>3</sup>
2	NO	20A, 250VAC, cosφ=1, 70°C	100x10 <sup>3</sup>
1, 2	CO	20A / 10A, 250VAC, cosφ=1, 60°C	20x10 <sup>3</sup>

AgSnOInO, 900mW coil

1	NO	17A, 250VAC, cosφ=1, 105°C	100x10 <sup>3</sup>
1	NO	20A, 250VAC, cosφ=1, 85°C	100x10 <sup>3</sup>

**EN 60730-1**

AgSnOInO, 1W coil			
1	NO	12(12)A, 240VAC, 60°C	100x10 <sup>3</sup>

**UL 508 1)**

AgSnOInO, 1W coil			
1, 2	NO	30A, 240VAC, general purpose, 25°C	100x10 <sup>3</sup>

AgSnOInO, 900mW coil			
1, 2	NO	TV-8, 125VAC, 25°C	25x10 <sup>3</sup>

1) Additional UL 508 ratings are available.

Mechanical endurance	10x10 <sup>6</sup> 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**

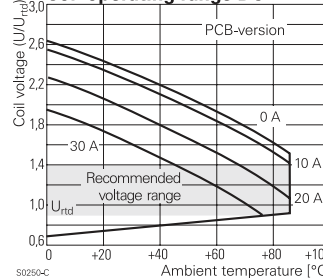
Coil code	Rated voltage VDC	Operate voltage VDC	Release voltage VDC	Coil resistance Ω±10%	Rated coil power W
Code D (1W) coil					
6	6	4.5	0.6	36	1
9	9	6.75	0.9	81	1
12	12	9	1.2	144	1
18	18	13.5	1.8	324	1
22	22	16.5	2.2	484	1
24	24	18	2.4	576	1
48	48	36.2	4.8	2304	1
110	110	82.5	11	12100	1
Code L (900mW)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

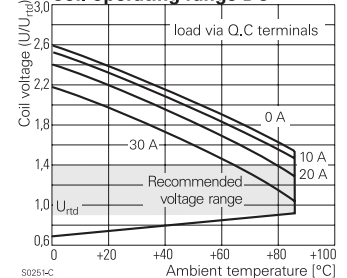
**Insulation Data**

Initial dielectric strength		
between open contacts		1500V
between contact and coil		2500V <sup>ms</sup>
Initial surge withstand voltage		
between contact and coil		6kV (1.2μs/50μs impulse wave)
Initial insulation resistance		
between insulated elements		1x10 <sup>9</sup> Ω
Clearance/creepage		
between contact and coil		≥3mm/4mm

**Coil operating range DC**



**Coil operating range DC**



Coil operating ranges shown above are for 1W coils.





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