

T9G series, DC coil 30A PCB Relay

- n 30A switching in NO and 20A in CO
- n Minimum Board space (29mm x 21.5mm)
- n Meets UL 508 for clearance / creepage
- n Meets IEC 61810-1 for reinforced insulation
- Option for load connections via 0.250" (6.3mm) quick connect terminals
- n 4kV dielectric withstand and 8kV surge voltage between coil & contacts
- n UL approved for 480 VAC switching

Typical applications

HVAC, Appliances, Industrial Controls, Energy Management



Contact Data					
Contact arrangement 1 form A (NO), 1 form B (NC), 1 form C (CC					
Rated voltage		250VAC			
Max. switching voltage 480VAC					
Rated current	30A	20A	20A		
Contact material		AgSnO			
Min. recommended contact load 1A, 12VAC/VDC					
Initial contact resistance	30	00mΩ at 100mA	/6VDC		
Frequency of operation, with/without load		360 cycles / hour = with			
	;	3600 cycles / ho	our = without		
Operate/release time max., including bounce 15/22ms					

Contact ratings 1)

UL 508		
Туре	Load	Cycles
NO	5A, 480VAC, General Purpose	6x10 ³
NO	15,6A, 480VAC, Resistive	100x10 ³
NO	30A, 277VAC, General Purpose, 85°C	100x10 ³
NO	18A, 250VAC, Resistive, 105°C	100x10 ³
NO	22A, 250VAC, Resistive	250x10 ³
NO	22A FLA, 98A LRA, 120VAC, Definite Purpose	100x10 ³
NO	14A FLA, 82A LRA, 250VAC, Definite Purpose, 7	70°C
		$30x10^{3}$
NO	20A, 277VAC, Standard Ballast	6x10 ³
NO	1HP, 125VAC	100x10 ³
NC	15A, 240VAC, General Purpose	100x10 ³
NC	20A, 250VAC, Resistive (CO type only)	20x10 ³
NC	30A LRA / 12A FLA, 250VAC, Definite Purpose	$30x10^{3}$
NC	1HP, 277VAC (CO type only)	50x10 ³











Contact ratings 1) (continued)				
Туре	Load	Cycles		
CO	20A, 250VAC, Resistive	15x10 ³		
CO	20A /10A, 240VAC, Resistive	100x10 ³		
CO	30A / 15A Resistive, 250VAC	20x10 ³		
CO	30A FLA / 80A LRA (N.O.); 12A FLA, 30A LRA	30x10 ³		
	(N.C.) 250VAC, Definite Purpose			
CO	80A LRA / 10A FLA (N.O.); 33A LRA / 10A FLA	30x10 ³		
	(N.C.) 250VAC, Definite Purpose			
IEC 61910-1	·			

IEC 61810-1	, ,	
Туре	Load	Cycles
NO	30A, 250VAC, Resistive, 85°C (PCB)	75x10 ³
NO	20A, 250VAC, Resistive, 70°C (QC), 85°C (PCB)	100x10 ³
NO	17A, 250VAC, Resistive, 105°C	100x10 ³
NO	20A, 250VAC, Resistive, 85°C	100x10 ³
NO	12A (12A), 250VAC, 60°C (per EN60730-1)	150x10 ³
NC	10A, 250VAC, Resistive, 60°C (C.O. type only)	50x10 ³
CO	20A, 250VAC, Resistive, 60°C (N.C.)	10x10 ³
CO	20A/10A, 250VAC, Resistive, 60°C (N.O.)	50x10 ³
CO	12A , 250VAC, Resistive, 85°C	100x10 ³

 Contact ratings at 40°C (unless otherwise noted) with relay properly vented. Remove vent nib after soldering and cleaning.

Mechanical endurance	10x10 ⁶ ops.

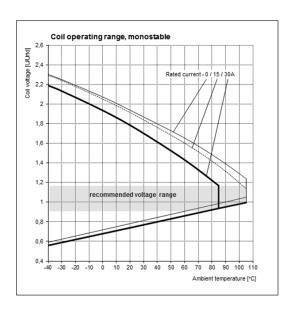
Coil Da	ata					
Coil volta	age range		5	to 110VDC		
Max. coil	l power		110	0% of nominal		
Max. coil	I temperature			155°C		
Coil insul	lation system a	according UL	Class F			
Coil vers	sions, DC co	il				
Coil	Rated	Operate	Release	Coil	Rated coil	
code	voltage	voltage	voltage	resistance	power	
	VDC	VDC	VDC	Ω±10%	mW	
5	5	3.75	0.5	28	900	
9	9	6.75	0.9	90	900	
12	12	9	1.2	160	900	
15	15	11.25	1.5	249	900	
18	18	13.5	1.8	360	900	
22	22	16.5	2.2	538	900	
24	24	18	2.4	640	900	
48	48	36	4.8	2,560	900	
110	110	82.5	11	13,444	900	
All figures are given for coil without preenergization, at ambient temperature +23°C.						

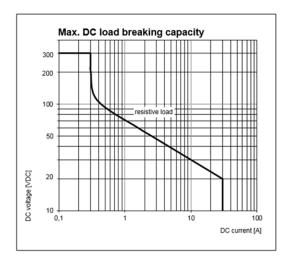
¹⁾ Contact ratings at 40° C (unless otherwise noted) with relay properly vented. **Remove vent nib after soldering and cleaning.**

Oall Data



Coil Data (continued)





Insulation Data Initial dielectric strength between open contacts 1500V_{rms} between contact and coil 4000V_{rms} Initial surge withstand voltage between contact and coil 8kV Initial insulation resistance between insulated elements $1x10^{9}Ω$, 500VDC Clearance/creepage between contact and coil 6.4mm / 9.5mm (UL), 8mm / 8mm (IEC)

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

Ambient temperature

Storage -55°C to +130°C DC coil Operating -40 to + 105°C at reduced current

Category of environmental protection

IEC 61810 RTII - flux proof RTIII - wash tight

Vibration resistance (functional) Opening NO contact >10g Opening NC contact >7g

Shock resistance (functional) 10g for 11msec

Shock resistance (destructive) 100g

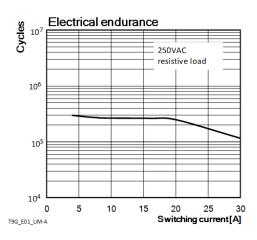
Terminal type pcb-tht and pcb-tht + quick connect Weight

18g mounting code 1 23g mounting code 2

Resistance to soldering heat THT

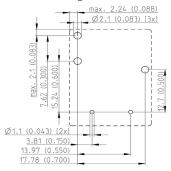
IEC 60068-2-20 250°C

10/tube, 420/box (PCB + QC), 500/box (PCB) Packaging/unit



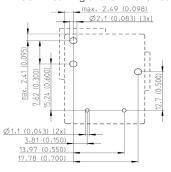
PCB layout

Bottom view on pins T9G - Mounting and termination code 1



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

T9G - Mounting and termination code 2

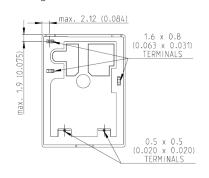


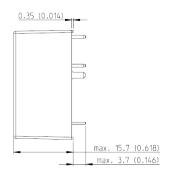
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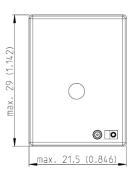


Dimensions

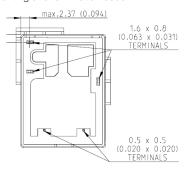
Mounting and termination code 1

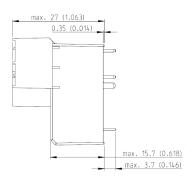


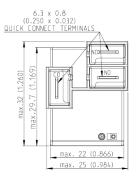


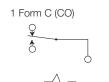


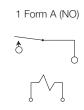
Mounting and termination code 2

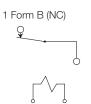












Notes:

1) General tolerance

Diagram Dimensions	Tolerance
<1mm	±0.1
1~3mm	±0.2 mm
>3mm	±0.3

- 2) Dimensions of the pins after tin soldering for PCB type a) +0.2 for the widht and thickness
 - b) +0.5 mm for the lenght

Product code structure Typical product code T9G S L 2 4 -12 Type T9G Power PCB or panel mount relay T9G **Enclosure** Wash-tight plastic case with knock off nib (requires mounting code 1 or 2) Flux-proof plastic case (requires mounting code 1 or 2) **Contact arrangement** 1 1 form A (1 NO) 2 1 form B (1 NC) 5 1 form C (1 CO) **Coil Input** DC voltage, 900mW L Mounting and termination PCB mounting; PCB terminals for coil and contacts PCB mounting; PCB term. for coil and contacts; 6.35mm (.250in) quick connect for contacts (only available with enclosure code N, S or V)

Contact material

4 AgSnO (RoHS compliant)

Coil voltage

Coil code: please refer to coil versions table



Mag	Numbei
T9GV5L14-12 AgSnO 12VDC 15 T9GV5L14-15 AgSnO 15VDC 15 T9GV5L14-18 AgSnO 18VDC 15 T9GV5L14-18 AgSnO 18VDC 15 T9GV5L14-22 AgSnO 22VDC 15 T9GV5L14-24 AgSnO 24VDC 15 T9GV5L14-10 AgSnO 48VDC 15 T9GV5L14-110 AgSnO 5VDC 15 T9GV1L14-5 1 NO AgSnO 5VDC 15 T9GV1L14-9 AgSnO 9VDC 15 T9GV1L14-12 AgSnO 12VDC 15 T9GV1L14-18 AgSnO 15VDC 15 T9GV1L14-18 AgSnO 22VDC 15 T9GV1L14-24 AgSnO 24VDC 15 T9GV1L14-24 AgSnO 24VDC 15 T9GV1L14-10 AgSnO 110VDC 15 T9GV2L14-5 1 NC AgSnO 12VDC 15 T9GV2L14-15 AgSnO	8660-1
T9GV5L14-15 AgSnO 15VDC 15 T9GV5L14-18 AgSnO 18VDC 15 T9GV5L14-22 AgSnO 22VDC 15 T9GV5L14-24 AgSnO 24VDC 15 T9GV5L14-48 AgSnO 48VDC 15 T9GV5L14-110 AgSnO 48VDC 15 T9GV5L14-10 AgSnO 5VDC 15 T9GV1L14-5 1 NO AgSnO 5VDC 15 T9GV1L14-9 AgSnO 9VDC 15 T9GV1L14-12 AgSnO 15VDC 15 T9GV1L14-15 AgSnO 15VDC 15 T9GV1L14-18 AgSnO 18VDC 15 T9GV1L14-22 AgSnO 22VDC 15 T9GV1L14-24 AgSnO 24VDC 15 T9GV1L14-24 AgSnO 48VDC 15 T9GV2L14-3 AgSnO 5VDC 15 T9GV2L14-5 1 NC AgSnO 5VDC 15 T9GV2L14-16 AgSnO <	8660-2
T9GV5L14-18 AgSnO 18VDC 15 T9GV5L14-22 AgSnO 22VDC 15 T9GV5L14-24 AgSnO 24VDC 15 T9GV5L14-48 AgSnO 48VDC 15 T9GV5L14-110 AgSnO 48VDC 15 T9GV1L14-5 1 NO AgSnO 5VDC 15 T9GV1L14-9 AgSnO 9VDC 15 T9GV1L14-12 AgSnO 15VDC 15 T9GV1L14-15 AgSnO 15VDC 15 T9GV1L14-18 AgSnO 18VDC 15 T9GV1L14-22 AgSnO 18VDC 15 T9GV1L14-24 AgSnO 22VDC 15 T9GV1L14-24 AgSnO 48VDC 15 T9GV1L14-24 AgSnO 48VDC 15 T9GV2L14-25 1 NC AgSnO 5VDC 15 T9GV2L14-5 1 NC AgSnO 5VDC 15 T9GV2L14-15 AgSnO 15VDC 15 T9GV2L14-16	8660-3
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T9GV5L14-24 AgSnO 24VDC 15 T9GV5L14-48 AgSnO 48VDC 15 T9GV5L14-110 AgSnO 110VDC 15 T9GV1L14-5 1 NO AgSnO 5VDC 15 T9GV1L14-19 AgSnO 9VDC 15 T9GV1L14-12 AgSnO 12VDC 15 T9GV1L14-15 AgSnO 15VDC 15 T9GV1L14-18 AgSnO 18VDC 15 T9GV1L14-22 AgSnO 22VDC 15 T9GV1L14-24 AgSnO 22VDC 15 T9GV1L14-24 AgSnO 48VDC 15 T9GV2L14-10 AgSnO 110VDC 15 T9GV2L14-5 1 NC AgSnO 5VDC 15 T9GV2L14-12 AgSnO 15VDC 15 T9GV2L14-12 AgSnO 15VDC 15 T9GV2L14-18 AgSnO 15VDC 15 T9GV2L14-24 AgSnO 24VDC 15 T9GV2L14-24 AgSnO	8660-5
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T9GV1L14-5 T9GV1L14-9 T9GV1L14-9 T9GV1L14-12 T9GV1L14-15 T9GV1L14-15 T9GV1L14-15 T9GV1L14-18 T9GV1L14-22 T9GV1L14-24 T9GV1L14-10 T9GV2L14-5 T9GV2L14-5 T9GV2L14-5 T9GV2L14-12 T9GV2L14-15 T9GV2L14-15 T9GV2L14-15 T9GV2L14-15 T9GV2L14-15 T9GV2L14-15 T9GV2L14-15 T9GV2L14-15 T9GV2L14-16 T9GV2L14-16 T9GV2L14-17 T9GV2L14-18 T9GV2L14-18 T9GV2L14-22 T9GV2L14-24 T9GV2L14-24 T9GV2L14-24 T9GV2L14-25 T9GV2L14-25 T9GV2L14-26 T9GV2L14-26 T9GV2L14-27 T9GV2L14-28 T9GV2L14-28 T9GV2L14-29 T9GV2L14-29 T9GV2L14-29 T9GV2L14-20	8-0688
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T9GV2L14-9 AgSnO 9VDC 15 T9GV2L14-12 AgSnO 12VDC 15 T9GV2L14-15 AgSnO 15VDC 15 T9GV2L14-18 AgSnO 18VDC 15 T9GV2L14-22 AgSnO 22VDC 15 T9GV2L14-24 AgSnO 24VDC 15 T9GV2L14-48 AgSnO 48VDC 15 T9GV2L14-110 AgSnO 110VDC 15 T9GV5L24-5 1 CO pcb + QC AgSnO 5VDC 15 T9GV5L24-9 AgSnO 9VDC 15	8661-9
T9GV2L14-12 AgSnO 12VDC 15 T9GV2L14-15 AgSnO 15VDC 15 T9GV2L14-18 AgSnO 18VDC 15 T9GV2L14-22 AgSnO 22VDC 15 T9GV2L14-24 AgSnO 24VDC 15 T9GV2L14-48 AgSnO 48VDC 15 T9GV2L14-110 AgSnO 110VDC 15 T9GV5L24-5 1 CO pcb + QC AgSnO 5VDC 15 T9GV5L24-9 AgSnO 9VDC 15	8662-1
T9GV2L14-15 AgSnO 15VDC 15 T9GV2L14-18 AgSnO 18VDC 15 T9GV2L14-22 AgSnO 22VDC 15 T9GV2L14-24 AgSnO 24VDC 15 T9GV2L14-48 AgSnO 48VDC 15 T9GV2L14-110 AgSnO 110VDC 15 T9GV5L24-5 1 CO pcb + QC AgSnO 5VDC 15 T9GV5L24-9 AgSnO 9VDC 15	8662-2
T9GV2L14-18 AgSnO 18VDC 15 T9GV2L14-22 AgSnO 22VDC 15 T9GV2L14-24 AgSnO 24VDC 15 T9GV2L14-48 AgSnO 48VDC 15 T9GV2L14-110 AgSnO 110VDC 15 T9GV5L24-5 1 CO pcb + QC AgSnO 5VDC 15 T9GV5L24-9 AgSnO 9VDC 15	8662-3
T9GV2L14-22 AgSnO 22VDC 15 T9GV2L14-24 AgSnO 24VDC 15 T9GV2L14-48 AgSnO 48VDC 15 T9GV2L14-110 AgSnO 110VDC 15 T9GV5L24-5 1 CO pcb + QC AgSnO 5VDC 15 T9GV5L24-9 AgSnO 9VDC 15	8662-4
T9GV2L14-24 AgSnO 24VDC 15 T9GV2L14-48 AgSnO 48VDC 15 T9GV2L14-110 AgSnO 110VDC 15 T9GV5L24-5 1 CO pcb + QC AgSnO 5VDC 15 T9GV5L24-9 AgSnO 9VDC 15	8662-5
T9GV2L14-48 AgSnO 48VDC 15 T9GV2L14-110 AgSnO 110VDC 15 T9GV5L24-5 1 CO pcb + QC AgSnO 5VDC 15 T9GV5L24-9 AgSnO 9VDC 15	8662-6
T9GV2L14-110 AgSnO 110VDC 15 T9GV5L24-5 1 CO pcb + QC AgSnO 5VDC 15 T9GV5L24-9 AgSnO 9VDC 15	8662-7
T9GV5L24-5 1 CO pcb + QC AgSnO 5VDC 15 T9GV5L24-9 AgSnO 9VDC 15	8662-8
T9GV5L24-9 AgSnO 9VDC 15	8662-9
	8670-1
700/51 04 10	8670-2
T9GV5L24-12 AgSnO 12VDC 15	8670-3
T9GV5L24-15 AgSnO 15VDC 15	8670-4
T9GV5L24-18 AgSnO 18VDC 15	8670-5
T9GV5L24-22 AgSnO 22VDC 15	8670-6
T9GV2L24-24 1 NC AgSnO 24VDC 15	8672-7
T9GV2L24-48 AgSnO 48VDC 15	8672-8
T9GV2L24-110 AgSnO 110VDC 15	8672-9



Product Code	Enclosure	Contacts	mounting	Contact Material	Coil	Part Number
T9GS5L14-5	Wash-tight plastic case with knock off nib (requires mounting code 1 or 2)	1 CO	pcb terminals	AgSnO	5VDC	1558665-1
T9GS5L14-9	ins (requires meaning seas i er 2)			AgSnO	9VDC	1558665-2
T9GS5L14-12				AgSnO	12VDC	1558665-3
T9GS5L14-15				AgSnO	15VDC	1558665-4
T9GS5L14-18				AgSnO	18VDC	1558665-5
T9GS5L14-22				AgSnO	22VDC	1558665-6
T9GS5L14-24				AgSnO	24VDC	1558665-7
T9GS5L14-48				AgSnO	48VDC	1558665-8
T9GS5L14-110				AgSnO	110VDC	1558665-9
T9GS1L14-5		1 NO		AgSnO	5VDC	1558666-1
T9GS1L14-9		1110		AgSnO	9VDC	1558666-2
T9GS1L14-12				AgSnO	12VDC	1558666-3
T9GS1L14-15				AgSnO	15VDC	1558666-4
T9GS1L14-18				AgSnO	18VDC	1558666-5
T9GS1L14-16				AgSnO	22VDC	1558666-6
T9GS1L14-24				AgSnO	24VDC 48VDC	1558666-7
T9GS1L14-48				AgSnO	110VDC	1558666-8
T9GS1L14-110		1 NO		AgSnO		1558666-9
T9GS2L14-5		1 NC		AgSnO	5VDC	1558667-1
T9GS2L14-9				AgSnO	9VDC	1558667-2
T9GS2L14-12				AgSnO	12VDC	1558667-3
T9GS2L14-15				AgSnO	15VDC	1558667-4
T9GS2L14-18				AgSnO	18VDC	1558667-5
T9GS2L14-22				AgSnO	22VDC	1558667-6
T9GS2L14-24				AgSnO	24VDC	1558667-7
T9GS2L14-48				AgSnO	48VDC	1558667-8
T9GS2L14-110				AgSnO	110VDC	1558667-9
T9GS5L24-5		1 CO	pcb + QC	AgSnO	5VDC	1558675-1
T9GS5L24-9				AgSnO	9VDC	1558675-2
T9GS5L24-12				AgSnO	12VDC	1558675-3
T9GS5L24-15				AgSnO	15VDC	1558675-4
T9GS5L24-18				AgSnO	18VDC	1558675-5
T9GS5L24-22				AgSnO	22VDC	1558675-6
T9GS5L24-24				AgSnO	24VDC	1558675-7
T9GS5L24-48				AgSnO	48VDC	1558675-8
T9GS5L24-110				AgSnO	110VDC	1558675-9
T9GS1L24-5		1 NO		AgSnO	5VDC	1558676-1
T9GS1L24-9				AgSnO	9VDC	1558676-2
T9GS1L24-12				AgSnO	12VDC	1558676-3
T9GS1L24-15				AgSnO	15VDC	1558676-4
T9GS1L24-18				AgSnO	18VDC	1558676-5
T9GS1L24-22				AgSnO	22VDC	1558676-6
T9GS1L24-24				AgSnO	24VDC	1558676-7
T9GS1L24-48				AgSnO	48VDC	1558676-8
T9GS1L24-110				AgSnO	110VDC	1558676-9
T9GS2L24-5		1 NC		AgSnO	5VDC	1558677-1
T9GS2L24-9				AgSnO	9VDC	1558677-2
T9GS2L24-12				AgSnO	12VDC	1558677-3
T9GS2L24-15				AgSnO	15VDC	1558677-4
T9GS2L24-18				AgSnO	18VDC	1558677-5
T9GS2L24-22				AgSnO	22VDC	1558677-6
T9GS2L24-24				AgSnO	24VDC	1558677-7
T9GS2L24-48				AgSnO	48VDC	1558677-8
T9GS2L24-110				AgSnO	110VDC	1558677-9

Note. This list represents the most common types and does not show all variants covered by this datasheet. Other types on request.

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1616359-9 6-1616360-9 6-1616931-6 6-1617039-1 6-1617052-1 6-1617090-2 6-1617090-5 6-1617347-5 6-1617353-3 6-1617801-8 6-
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