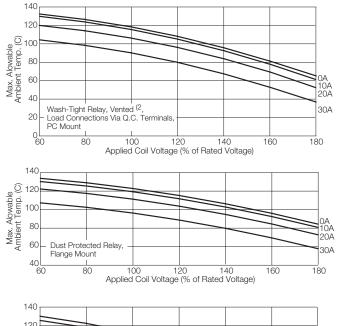


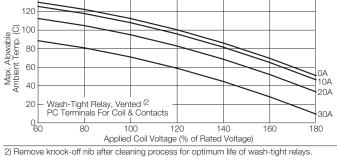
# T9A Series, DC Coil 30A PCB or Panel Mount Relay (Continued)

### Coil Data (continued)

Ambient temperature vs. coil voltage – 1W coil Data below are average values and should be verified in application. Tests

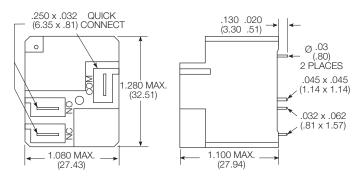
were conducted within a 2' (.6 m) cube (still air); at nominal coil power @ 25°C; with normally open contact loaded; and with 4' (1.22 m) long, #10 AWG load wires. P.C. board relays were mounted to a 30A, single side P.C. board. Coil rise test conducted with a 30A PC board to maintain 20°C max. rize at 30°C. The relay connections and wiring must be designed with an adequate cross section to ensure proper current flow and heat dissipation.





#### Dimensions

T9AS - Mounting and termination code 2



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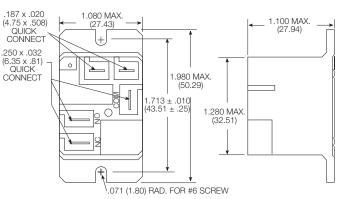
1500V <sub>ms</sub>
2500V <sub>ms</sub>
6kV
1×10 <sup>9</sup> Ω
3.18mm clearance/6.3638mm

### **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						
DC coil	-55°C to 85°C <sup>3)</sup>					
	105°C models available					
Category of environmental protectio	n					
IEC 61810	RT0 - open, RTI - dust protected,					
	RTII - flux proof, RTIII - wash tight					
Vibration resistance (functional)	1.65mm max excursions, 10-55 Hz					
Shock resistance (functional)	10g for 11msec					
Shock resistance (destructive)	100g					
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	250°C					
Packaging/unit tray/50	pcs., bundle/250 pcs., box/500 pcs.					
3) Operating ambient temperature must consider "Must Operate Voltage Change Over						

3) Operating ambient temperature must consider "Must Operate Voltage Change Over Temperature," Contact Temperature Rise, Coil Temperature Rise (If coil is not allowed to cool) and Maximum Coil Temperature. Specification ambient considers 20A load with coil cooled to ambient.

#### T9AP – Mounting and termination code 5



Note: Recommended mounting screw torque is 4.0-5.0 lbs.in when #6 screw is used.

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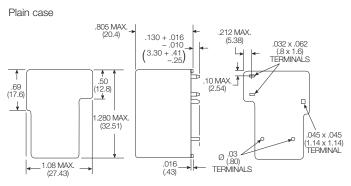
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2



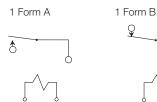
# T9A Series, DC Coil 30A PCB or Panel Mount Relay (Continued)

#### Dimensions



## Terminal assignment

Bottom view on pins



PCB layout Bottom view on pins

.140 MAX (3.56)\_\_\_

¥

.300 1.100 (7.62) (2.54)

Ť

.500 (12.7)

150

(3.81)

Ť

.600 (15.24)

ç

T9AP/S - Mounting and termination code 2

.250 MAX - (6.35)

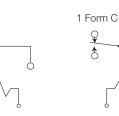
\_\_.550 \_\_ (13.97) \_\_\_.700 \_ (17.78)

.081 ± .005 DIA (2.06 ± .13)

.078 ± .003 DIA. / (1.98 ± .08)

.043 ± .003 DIA.

 $(1.09 \pm .08)$ 



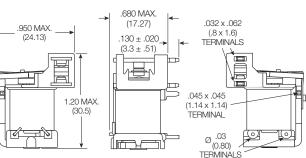
Only necessary terminals are present on single throw models.

Consequently, some holes will

be unnecessary for single throw

models.

# Bracket mount case

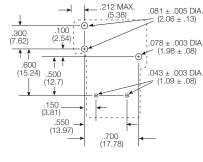


Notes: 1) General tolerance

Diagram Dimensions	Tolerance
<1mm	±0.1
1~3mm	±0.2
>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 for the lenght

## T9AS/V - Mounting and termination code 1



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

or 2)
or 2)
5 1 form C (1 CO)
DC voltage, 1W (+0/-10 percent coil resistance)
th enclosure code N, S or V) for contacts (only available with enclosure code N, S or V) or contacts (only available with enclosure code P)
7 AgCdO (Enhanced version)
2

1) "H" type coil is only available in mounting termination options 2 & 5.

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Downloaded from Arrow.com.



# T9A Series, DC Coil 30A PCB or Panel Mount Relay (Continued)

T9AN1L22-24   T9AN5L12-24   T9AN5L22-24   T9AP1D52-12   U   T9AP1D52-24   T9AP1D52-24   T9AP1D52-24   T9AP5D52-12   T9AP5D52-24   T9AP5D52-24   T9AP5D52-48   T9AP5D54-24   T9AP5D54-24   T9AP5D54-24   T9AS1D12-5   T9AS1D12-9   T9AS1D12-12   T9AS1D12-15	Open (no cover)	1 form A, 1 NO 1 form C, 1 CO 1 form A, 1 NO 1 form C, 1 CO	900mW	pcb + QC pcb terminals pcb + QC Flanged mount, QC	AgCdO	24VDC 12VDC 24VDC	1419104-6 1-1393210-0 1419104-9 6-1419102-0
T9AN5L22-24   T9AP1D52-12 U   T9AP1D52-24 T9AP1D52-48   T9AP1D52-44 T9AP5D52-12   T9AP5D52-24 T9AP5D52-48   T9AP5D52-48 T9AP5D54-12   T9AP5D54-24 T9AP5D54-12   T9AP5D54-24 T9AP5D54-24   T9AP5D54-24 T9AP5D54-24   T9AS1D12-5 T9AS1D12-9   T9AS1D12-12 T9AS1D12-12		1 form A, 1 NO	1W	pcb + QC			1419104-9 6-1419102-0
T9AP1D52-12   U     T9AP1D52-24   79AP1D52-24     T9AP1D52-48   79AP5D52-12     T9AP5D52-24   79AP5D52-24     T9AP5D52-48   79AP5D54-12     T9AP5D54-12   79AP5D54-24     T9AP5D54-24   79AP5D54-24     T9AP5D54-24   79AP5D54-24     T9AP5D54-24   79AS1D12-5     T9AS1D12-12   79AS1D12-12			1W				6-1419102-0
T9AP1D52-24   T9AP1D52-48   T9AP1D54-24   T9AP5D52-12   T9AP5D52-24   T9AP5D52-48   T9AP5D54-12   T9AP5D54-12   T9AP5D54-24   T9AP5D54-24   T9AP5D54-24   T9AP5D54-24   T9AP5D54-24   T9AS1D12-5   T9AS1D12-12			1W	Flanged mount, QC			-
T9AP1D52-48   T9AP1D54-24   T9AP5D52-12   T9AP5D52-24   T9AP5D52-48   T9AP5D54-12   T9AP5D54-12   T9AP5D54-24   T9AP5D54-24   T9AP5D54-24   T9AS1D12-5   T9AS1D12-12		1 form C, 1 CO				24VDC	
T9AP1D54-24   T9AP5D52-12   T9AP5D52-24   T9AP5D52-24   T9AP5D54-12   T9AP5D54-12   T9AP5D54-24   T9AS1D12-5   T9AS1D12-9   T9AS1D12-12		1 form C, 1 CO					6-1419102-3
T9AP5D52-12   T9AP5D52-24   T9AP5D52-48   T9AP5D54-12   T9AP5D54-24   T9AP5D54-24   T9AS1D12-5   T9AS1D12-9   T9AS1D12-12		1 form C, 1 CO				48VDC	5-1419102-8
T9AP5D52-24   T9AP5D52-48   T9AP5D54-12   T9AP5D54-24   T9AS1D12-5   T9AS1D12-9   T9AS1D12-12		1 form C, 1 CO			AgSnOlnO	24VDC	7-1423091-3
T9AP5D52-48     T9AP5D54-12     T9AP5D54-24     T9AS1D12-5     T9AS1D12-9     T9AS1D12-12					AgCdO	12VDC	5-1419102-4
T9AP5D54-12 T9AP5D54-24 T9AS1D12-5 T9AS1D12-9 T9AS1D12-12						24VDC	5-1419102-2
T9AP5D54-24      T9AS1D12-5      T9AS1D12-9      T9AS1D12-12						48VDC	6-1419102-4
T9AS1D12-5 T9AS1D12-9 T9AS1D12-12					AgSnOlnO	12VDC	7-1423091-4
T9AS1D12-9 T9AS1D12-12						24VDC	7-1423091-5
T9AS1D12-12	Wash tight, knock off nib	1 form A, 1 NO		pcb terminals	AgCdO	5VDC	2-1393210-0
						9VDC	2-1393210-2
T9AS1D12-15						12VDC	1-1393210-3
						15VDC	1-1393210-4
T9AS1D12-18						18VDC	1-1393210-5
T9AS1D12-24						24VDC	1-1393210-8
T9AS1D12-48						48VDC	1-1393210-9
T9AS1D12-110						110VDC	1-1393210-2
T9AS1D14-12					AgSnOlnO	12VDC	5-1423091-7
T9AS1D14-24					, gonomo	24VDC	6-1423091-3
T9AS1D22-5				pcb + QC	AgCdO	5VDC	2-1419104-3
T9AS1D22-12				pob 1 Q0	/ igodo	12VDC	1-1419104-7
T9AS1D22-24						24VDC	2-1419104-1
T9AS1D22-48					-	48VDC	2-1419104-2
T9AS1D22-40					-	110VDC	1-1419104-2
T9AS1L12-12			900mW	pcb terminals		12VDC	2-1393210-4
T9AS1L12-12			9001111	pop terminais		24VDC	2-1393210-4
T9AS1L22-18				pcb + QC		18VDC	2-1419104-6
		1 form P 1 NC		pcb + QC		24VDC	
T9AS2L22-24		1 form B, 1 NC	1W	n ob torrain ala			1423794-1
T9AS5D12-5		1 form C, 1 CO	IVV	pcb terminals		5VDC	3-1393210-9
T9AS5D12-12						12VDC	3-1393210-3
T9AS5D12-18						18VDC	3-1393210-4
T9AS5D12-24						24VDC	3-1393210-7
T9AS5D12-48						48VDC	3-1393210-8
T9AS5D12-110						110VDC	3-1393210-2
T9AS5D14-5					AgSnOlnO	5VDC	6-1423091-4
T9AS5D22-5				pcb + QC	AgCdO		3-1419104-9
T9AS5D22-12						12VDC	3-1419104-3
T9AS5D22-24						24VDC	3-1419104-6
T9AS5D22-110						110VDC	3-1419104-2
T9AS5D24-5					AgSnOlnO	5VDC	6-1423091-9
T9AS5D24-12						12VDC	7-1423091-0
T9AS5D24-24						24VDC	7-1423091-1
T9AS5L12-12			900mW	pcb terminals	AgCdO	12VDC	4-1393210-1
T9AS5L22-18				pcb + QC		18VDC	4-1419104-0
T9AS5L22-24						24VDC	4-1419104-1
T9AS5L22-48						48VDC	9-1419136-6
T9AV1D12-12	Vented, flux tight	1 form A, 1 NO	1W	pcb terminals		12VDC	4-1393210-3
T9AV1D12-18						18VDC	5-1393210-2
T9AV1D22-18				pcb + QC			4-1419148-8
T9AV1D22-24						24VDC	5-1419148-0
T9AV1D22-48						48VDC	2-1423091-3
T9AV1L12-12			900mW	pcb terminals		12VDC	1-1423091-8
T9AV1L22-24				pcb + QC		24VDC	4-1419104-2
T9AV2D22-24		1 form B, 1NC	1W				1419137-1
T9AV5D12-24		1 form C, 1CO		pcb terminals			4-1393210-8
T9AV5D22-18		-,		pcb + QC		18VDC	5-1419148-2
T9AV5D22-24						24VDC	1419137-2
T9AV5L12-12			900mW	pcb terminals		12VDC	1423091-6

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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