

# **T9C Series, AC Coil Power Relay**

- 30A, 1NO, 20A/10A 1CO
- **■** Flange mount
- 1.6VA coil (cULus recognized)
- 1.2VA coil (VDE approved)
- 2.5kV coil contact dielectric

Typical applications

HVAC, power supplies, domestic appliances, measurement and controls









Approvals
UL E58304; CSA LR48471; VDE REG,-Nr.A876
Technical data of approved types on request

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Contact Data	
Contact arrangement	1 form A (NO), 1 form B (NC), 1 form C (CO)
Rated voltage	250VAC
Max. switching voltage	250VAC
Rated current	20A /10A
Breaking capacity max.	5000VA
Contact material	AgSnOlnO, AgCdO
Min. recommended contact load	d 1A, 5VDC or 12VAC
Initial contact resistance	75 mΩ at 1A at 5VDC or 12VAC
Frequency of operation, with/wi	thout load 6/300min
Operate/release time max., inclu	uding bounce 15/15ms

Contact ratings

Contact ratings				
Туре	Load	Cycles		
UL508				
NO	30A, 250VAC, resistive, 25°C	30x10 <sup>3</sup>		
NO	15A, 240VAC, general purpose, 70°C	100x10 <sup>3</sup>		
CO	20A/10A, 250VAC, resistive, 25°C	6x10 <sup>3</sup>		
IEC 61810				
E coil				
NO	15A, 277VAC, cos =1, 85°C	100x10 <sup>3</sup>		
Machanical	endurance	5x106 ons		

0 " 0						
Coil Da						
Coil voltage range			12	12 to 240VAC		
Max. coil	power		Coil A, 1.6VA Coil E, 1.2VA		1.2VA	
Coil insul	ation system a	according UL	Class F			
Coil vers	sions, AC co	il				
Coil	Rated	Operate	Release	Coil	Rated coil	
code	voltage	voltage	voltage	resistance	power	
	VAC	VAC	VAC	Ω±10%	VA	
Code A	(1.6VA) coil					
12	12	9.6	3.6	36	1.6	
24	24	19.2	7.2	144	1.6	
48	48	38.4	14.4	576	1.6	
120	110	88	33	3025	1.6	
240	220	176	66	12000	1.6	
Code E (1.2VA) coil						
12	12	9.6	3.6	52	1.2	
24	24	19.2	7.2	198	1.2	
48	48	38.4	14.4	824	1.2	
120	110	88	33	3728	1.2	
240	220	176	66	14810	1.2	
All figures a	are given for coil	without preenero	ization, at ambi	ent temperature -	+23°C.	

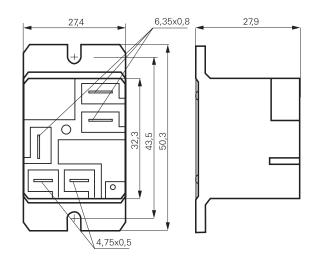
ation Data	
dielectric strength	
ween open contacts 1500\	$V_{rms}$
ween contact and coil 2500\	$V_{rms}$
insulation resistance	
ween insulated elements 1x10	) <sup>9</sup> Ω
ince/creepage	
ween contact and coil 2.5 / 4mm; 3.1 / 6.3	3mm (UL508)
ng index of relay base 178	5
ween open contacts 15000 ween contact and coil 25000 insulation resistance ween insulated elements 1x10 unce/creepage ween contact and coil 2.5 / 4mm; 3.1 / 6.3	V <sub>ms</sub> ) <sup>9</sup> Ω Bmm (UL508)

### **Other Data**

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at <a href="https://www.te.com/customersupport/rohssupportcenter">www.te.com/customersupport/rohssupportcenter</a>

Ambient temperature	
AC coil	-40°C to 70°C
Category of environmental protection	
IEC 61810	RTI - dust protected
Vibration resistance (functional)	1.5mm, 10-55 Hz
Shock resistance (functional)	10g for 11msec
Shock resistance (destructive)	100g
Terminal type	quick connect
Weight	33g
Resistance to soldering heat THT	
IEC 60068-2-20	250°C
Packaging/unit	250 pcs

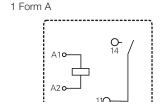
## Dimensions

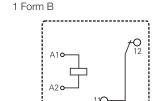


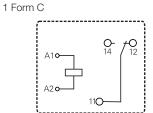


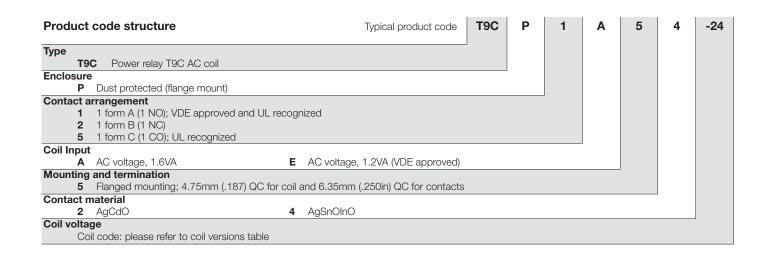
## T9C Series, AC Coil Power Relay (Continued)

#### Terminal assignment









Product Code	Contact arrangement	Contact material	Coil voltage	Part Number
T9CP1A52-12	1 form A (NO)	AgCdO	12 VAC	1649341-3
T9CP1A52-24	` '		24 VAC	1649341-1
T9CP1A52-48			48 VAC	1649341-4
T9CP1A52-120			120 VAC	1649341-5
T9CP1A52-240			240 VAC	1649341-6
T9CP5A52-12	1 form C (CO)		12 VAC	1-1649341-1
T9CP5A52-24			24 VAC	1-1649341-2
T9CP5A52-48			48 VAC	1-1649341-3
T9CP5A52-120			120 VAC	1-1649341-4
T9CP5A52-240			240 VAC	1-1649341-5
T9CP1A54-12	1 form A (NO)	AgSnInO	12 VAC	1649341-7
T9CP1A54-24			24 VAC	1649341-8
T9CP1A54-48			48 VAC	1649341-9
T9CP1A54-120			120 VAC	1-1649341-0
T9CP1A54-240			240 VAC	1649341-2
T9CP2A54-120	1 form B (NC)		120 VAC	2-1649341-5
T9CP2A54-240			240 VAC	2-1649341-4
T9CP5A54-12	1 form C (CO)		12 VAC	1-1649341-6
T9CP5A54-24			24 VAC	1-1649341-7
T9CP5A54-48			48 VAC	1-1649341-8
T9CP5A54-120			120 VAC	1-1649341-9
T9CP5A54-208			208 VAC	2-1649341-6
T9CP5A54-240			240 VAC	2-1649341-0
T9CP5A54-277			277 VAC	2-1649341-7