

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.

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/wit	thout load 6/300min
Operate/release time max., inclu	uding bounce 15/15ms

Contact ratings

Mechanical endurance

Type	Load	Cycles
UL508		
NO	30A, 250VAC, resistive, 25°C	30x10 ³
NO	15A, 240VAC, general purpose, 70°C	100x10 ³
CO	20A/10A, 250VAC, resistive, 25°C	6x10 ³
IEC 61810		
E coil		
NO	15A, 277VAC, cos =1, 85°C	100x10 ³

Coil Data						
Coil voltage range 12 to 240VAC						
Max.	coil power		Coil	A, 1.6VA	Coil E, 1	.2VA
Coil in	Coil insulation system according UL Class F					
Coil v	ersions, A	C coil				
Coil	Rated	Frequency	Operate	Release	Coil	Rated coil
code	voltage		voltage	voltage	resistance	power
	VAC	HZ	VAC, 60HZ	VAC, 60HZ	Ω±10%	VA
Code	A (1.6VA)	coil				
12	12	50/60	9.6	1.2	36	1.6
24	24	50/60	19.2	2.4	144	1.6
48	48	50/60	38.4	4.8	576	1.6
120	110/120	50/60	96	12	3025	1.6
240	220/240	50/60	192	24	12000	1.6
277	250/277	50/60	221.6	27.7	15625	1.6
Code E (1.2VA) coil						
12	12	50/60	9.6	1.2	52	1.2
24	24	50/60	19.2	2.4	198	1.2
48	48	50/60	38.4	4.8	824	1.2
120	110/120	50/60	96	12	3728	1.2
240	240/240	50/60	192	24	14810	1.2
240 240/240 50/60 192 24 14810 1.2 All figures are given for cell without preparation, at ambient temperature (23°C)						

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 _{ms}
Initial insulation resistance	1110
between insulated elements	1x10 ⁹ Ω
Clearance/creepage	
between contact and coil	2.5 / 4mm; 3.1 / 6.3mm (UL508)
Tracking index of relay base	175
between insulated elements Clearance/creepage between contact and coil	2.5 / 4mm; 3.1 / 6.3mm (UL508)

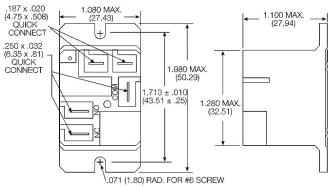
Other Data

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			
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

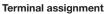
5x10⁶ ops.

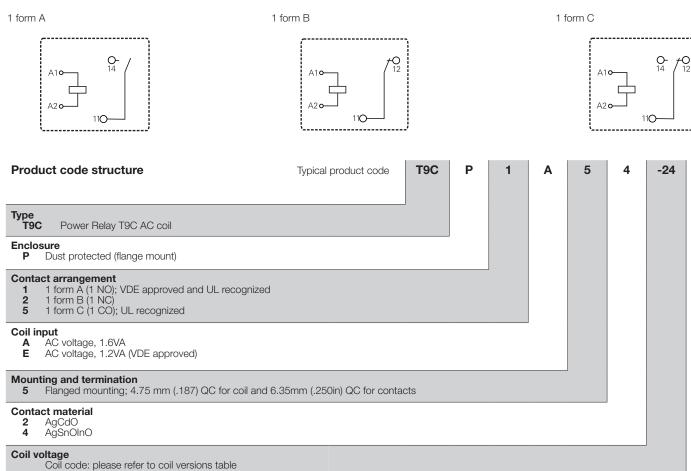


Note: Recommended mounting screw torque is 4.0-5.0 lbs.in when #6 screw is used.



T9C Series, AC Coil Power Relay (Continued)





Product Code	Contact arrangement	Contact material	Coil voltage	Part Number
T9CP1A52-12			12 VAC	1649341-3
	1 form A (NO)	AgCdO		
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