

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	277VAC
Rated current	30A (NO), 10A (NC), 20A/10A (CO)
Breaking capacity max.	7500VA
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

Туре	Load	Cycles
UL508		
AgCdO		
NO	30A, 125VAC, resistive	100x10 ³
NO	20A, 28VDC, resistive	100x10 ³
NO	1hp, 277VAC	6,000
CO	30A(NO)/15A(NC), 125VAC, general purpose	100x10 ³
CO	10A(NO)/10A(NC), 240VAC, general purpose	100x10 ³
CO	30A(NO)/20A(NC), 240VAC, resistive	6,000
NC	20A, 240VAC, resistive	6,000
AgSnOlnO		
NO	30A, 250VAC, resistive	30x10 ³
NO	15A, 240VAC, general purpose	100x10 ³
NO	1hp, 120VAC	6,000
CO	20A(NO)/10A(NC), 250VAC, resistive	6,000
NC	1/2hp, 240VAC	6,000
IEO 01010		

IEC 6	181	0
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NO	15A, 277VAC, cos =1, 85°C	100x10 ³
Mechanical e	endurance	5x10 ⁶ ops.

Coil Data							
Coil vo	Coil voltage range 12 to 240VAC						
Max.	coil power		Coi	I A, 1.6VA	Coil E, 1	.2VA	
Coil in	sulation sys	stem accord	ing UL	Cla	ss 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	136	1.6	
48	48	50/60	38.4	4.8	548	1.6	
120	110/120	50/60	96	12	2800	1.6	
240	220/240	50/60	192	24	11500	1.6	
277	250/277	50/60	221.6	27.7	15625	1.6	

Code	e E (1.2VA) c	ioil				
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

All figures are given for coil without preenergization, at ambient temperature +23°C.

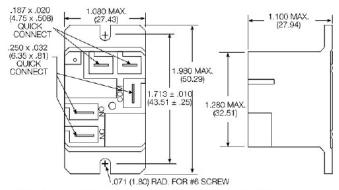
Insulation Data	
Initial dielectric strength	
between open contacts	1500V _{rms}
between contact and coil	2500V _m
Initial insulation resistance	· · · · · · · · · · · · · · · · · · ·
between insulated elements	1x10 ⁹ Ω
Clearance/creepage	
between contact and coil	3.1 / 6.3mm (UL508)
Tracking index of relay base	175

Other Data

Material compliance: EU RoHS/ELV, China RoHS, REACH, Halogen content refer to the Product Compliance Support Center at

<u>www.te.com/customersupport/ronssupportcenter</u>				
Ambient temperature				
AC coil	-40°C to 85°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



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

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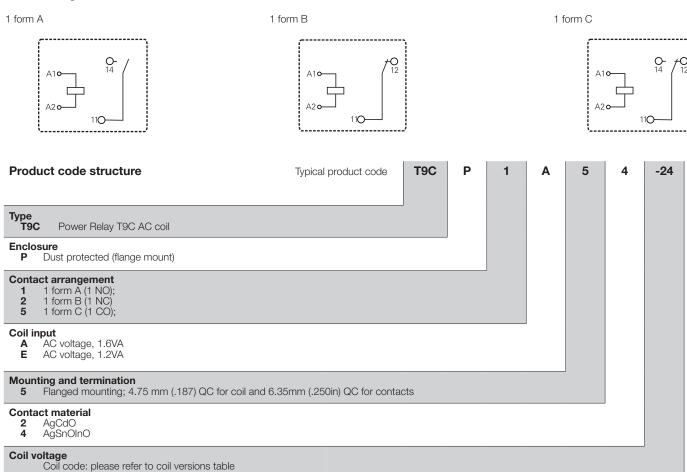
Catalog and product data is subject to the terms of the disclaimer and all chapters of the 'Definitions' section, available at http://relays.te.com/definitions

Catalog product data, 'Definitions' section, application notes and all specifications are subject to change.



T9C Series, AC Coil Power Relay (Continued)





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

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