

NT90TP(T92)



32.4(50)×27×28.5



CH0050401-2000 CE E9930952



E174722



R2033977.07



LR956331

Features

- Small size, light weight. Low coil power consumption, heavy contact load. Strong anti-shock and anti-vibration, high reliability, long life.
- Suitable for automobile, machine, electronic equipment, air conditioner and household appliance applications.

Contact Data

Contact Arrangement	1A, 1B, 1C
Contact Material	Ag·CdO Ag·SnO ₂ Ag·SnO ₂ ·In ₂ O ₃
Contact Rating (resistive)	NO:30A/240VAC,14VDC; NC:20A/240VAC ;30A/14VDC NO:40A/250VAC,28VDC; NC:30A/250VAC,28VDC (0.9W)
Max. Switching Power	1100W 7200VA
Max. Switching Voltage	110VDC 250VAC
Contact Resistance or Voltage drop	30mΩ Max
Operation life	Electrical 10 ⁵ Mechanical 10 ⁷
	Max. Switching Current 40A Item 3.12 of IEC255-7 Item 3.30 of IEC255-7 Item 3.31 of IEC255-7

Coil Parameter

DC Coil Parameter							AC Coil Parameter			
Coil voltage VDC		Coil resistance Ω±10%	Pick up voltage E VDC(max) (75% of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power W	Operate Time ms Max	Release Time ms Max	Rated voltage VAC	Coil resistance Ω±10%	Coil power
Rated	Max									
3	3.9	10/15	2.25	0.3	0.9/0.6	15	10	12	(27)	2VA
5	6.5	28/42	3.75	0.5				24	(120)	
6	7.8	40/60	4.50	0.6				110	(2360)	
9	11.7	90/135	6.75	0.9				120	(3040)	
12	15.6	160/240	9.00	1.2				220	(13490)	
15	19.5	250/375	10.25	1.5						
18	23.4	360/540	13.50	1.8						
24	31.2	640/960	18.00	2.4						
48	62.4	2560/3840	36.00	4.8						
110	143	13445/20167	82.50	11.0						

- CAUTION:** 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2. Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Operation condition

Insulation Resistance	1000MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength		
Between contacts	50Hz 1500V	Item 6 of IEC255-5
Between contact and coil	50Hz 2500V	Item 6 of IEC255-5
Shock resistance	200m/s ² 11ms	IEC68-2-27 Test Ea method 1
Vibration resistance	10~55Hz double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	10N	IEC68-2-21 Test Ua1
Solderability	230 °C± 2 °C 10± 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-55~100 °C -55~125 °C	
Relative Humidity	85% (at 40 °C)	IEC68-2-3 Test Ca
Mass	37g	

Qualification inspection:

Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.

Ordering Information	
NT90TP	H A S DC12V C B 0.9
Coil power consumption:0.6:0.6W, 0.9:0.9W, 2:2VA	
Resist heat class :B:130°C, F:155°C	
Contact material :Ni:Ag·SnO ₂ ·In ₂ O ₃ , C:Ag·CdO, S:Ag·SnO ₂	
Coil rated Voltage DC:3V, 5V, 6V, 9V, 12V, 15V, 18V, 24V, 48V, 110V AC:12V, 24V, 110V, 120V, 220V	
S:Sealed type, D:Dust Cover, E:Covered , O:Open type	
Contact Arrangement :A:1A, B:1B, C:1C	
H:30A, NL:40A, Heavy load	
Part number:NT90TP (T92)	

Dimensions (Unit: mm)

mm	inch
0.5	0.020
0.8	0.031
2.8	0.110
3.6	0.142
4.7	0.185
6.4	0.252
27	1.063
28.5	1.122
32.4	1.275
43.5	1.713
50	1.969

Dimensions

Wiring diagram

1A 1B 1C

- NOTES 1).Dimensions are in millimeter.
2).Inch equivalents are given for general information only.

