NT90TP(T92)

32.4(50)×27×28.5

CH0050401-2000 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_2O_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	Max. Switching Current:40A
Contact Resistance or Voltage drop	30mΩ Max	Item 3.12 of IEC255-7
Operation life — Electrical	10^5	Item 3.30 of IEC255-7
Operation life — Mechanical	10^7	Item 3.31 of IEC255-7

Coil Parameter

DC Coil Parameter							AC Coil Parameter		
Coil voltage VDC		Coil resistance Ω±10%	Pick up voltageE 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						
6	7.8	40/60	4.50	0.6				24	(120)	
9	11.7	90/135	6.75	0.9						
12	15.6	160/240	9.00	1.2				110	(2360)	
15	19.5	250/375	10.25	1.5						
18	23.4	360/540	13.50	1.8				120	(3040)	
24	31.2	640/960	18.00	2.4						
48	62.4	2560/3840	36.00	4.8				220	(13490)	
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	230ºC± 2ºC 10± 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-55~100ºC -55~125ºC	
Relative Humidity	85% (at 40ºC)	IEC68-2-3Test Ca
Mass	37g	

Qualification inspection:

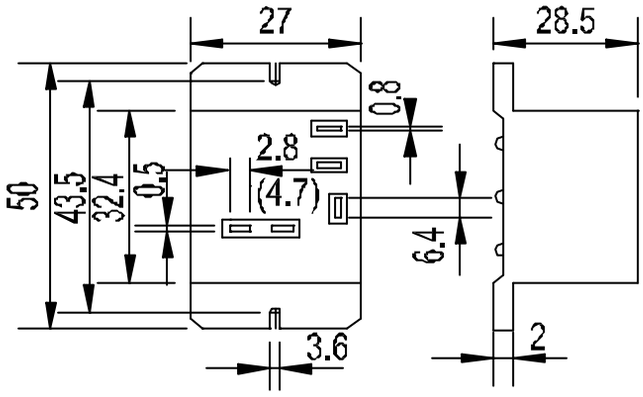
Perform the qualification test as specified in the table Ⅳ of IEC255-19-1 and minimum sample size 24.

Ordering Information

NT90TP | H | A | S | DC12V | C | B | 0.9

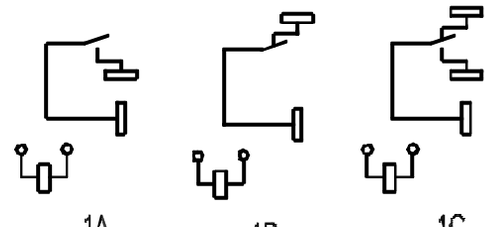
- 0.9: Coil power consumption:0.6:0.6W, 0.9:0.9W, 2:2VA
- B: Resist heat class :B:130ºC, F:155ºC
- C: Contact material :Nil:Ag·SnO_2·In_2O_3 , C:Ag·CdO, S:Ag·SnO2
- DC12V: Coil rated Voltage
  DC:3V, 5V, 6V, 9V, 12V, 15V, 18V, 24V, 48V, 110V
  AC:12V, 24V, 110V, 120V, 220V
- S: S:Sealed type, D:Dust Cover, E:Covered , O:Open type
- A: Contact Arrangement :A:1A, B:1B, C:1C
- H: H:30A, NL:40A, Heavy load
- NT90TP: Part number:NT90TP (T92)

Dimensions (Unit: mm)



Dimensions

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



Wiring diagram

NOTES 1).Dimensions are in millimeter.

2).Inch equivalents are given for general information only.

Reference Data