

NT90TP (T92)


$$50.2 \times 27.5 \times 20$$

 R50126373

Features

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

Ordering Information

<u>NT90TP</u>	<u>H</u>	<u>L</u>	<u>A</u>	<u>D</u>	<u>12</u>	<u>C</u>	<u>B</u>	<u>0.9</u>
1	2	3	4	5	6	7	8	9

6 Coil rated Voltage(V): AC:12,24, 110,120,220,240,277
DC:3,5,6,9,12,15,18,24,36,48,110
7 Contact material: S:AgSnO₂; C: AgCdO
8 Resist heat class: B:130℃; F:155℃
9 Coil power: 0.6:0.6W; 0.9:0.9W; 2:2VA

Contact Data

Contact Arrangement	1A(SPSTNO) 1B(SPSTNC) 1C(SPDT(B-M))	
Contact Material	AgSnO ₂ AgCdO	
Contact Rating	NO: 30A/240VAC,14VDC; NC:20A/240VAC;30A/14VDC NO: 40A/240VAC,30VDC; NC:30A/240VAC,30VDC (0.9W) NO: 30A/277VAC; NC:20A/277VAC Motor load: NO:2HP 250VAC; NC:1½HP 250VAC 5A/280VAC(Ballast) TV-5	
Max. Switching Power	1200W 10000VA	
Max. Switching Voltage	30VDC 280VAC	Max. Switching Current:40A
Contact Resistance	≤30mΩ	Item 4.12 of IEC 61810-7
Electrical Endurance	1×10 ⁵	Item 4.30 of IEC 61810-7
Mechanical Endurance	1×10 ⁷	Item 4.31 of IEC 61810-7

Coil Parameter

AC Coil Parameter									
Dash numbers	Coil voltage VAC		Rated current mA	Coil resistance $\Omega \pm 10\%$	Pick-up voltage VAC(max) (75%of rated voltage)	Drop-out voltage VAC(min) (30%of rated voltage)	Coil power VA	Operate time ms	Release time ms
	Rated	Max							
012AC	12	15.6	166.6	27	9	3.6	2	—	—
024AC	24	31.2	83.3	120	18	7.2			
110AC	110	143	18.1	2360	82.5	33.0			
120AC	120	156	16.6	3040	90	36.0			
220AC	220	286	9.1	13490	165	66.0			
240AC	240	312	8.3	15740	180	72			
277AC	277	360.1	7.2	20300	207.8	83.1			

Notes: 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2. Pick-up and drop-out voltage are for test purposes only and are not to be used as design criteria.

Coil Parameter

DC Coil Parameter								
Dash numbers	Rated voltage VDC		Coil resistance $\Omega \pm 10\%$	Pick-up voltage VDC(max) (75%of rated voltage)	Drop-out voltage VDC(min) (10%of rated voltage)	Coil power W	Operate time ms	Release time ms
	Rated	Max						
003-900	3	3.9	10	2.25	0.3	0.9	≤ 15	≤ 10
005-900	5	6.5	28	3.75	0.5			
006-900	6	7.8	40	4.50	0.6			
009-900	9	11.7	90	6.75	0.9			
012-900	12	15.6	160	9.00	1.2			
015-900	15	19.5	250	11.25	1.5			
018-900	18	23.4	360	13.50	1.8			
024-900	24	31.2	640	18.00	2.4			
036-900	36	46.8	1440	27.00	3.6			
048-900	48	62.4	2560	36.00	4.8			
110-900	110	143	13445	82.50	11.0			
003-600	3	3.9	15	2.25	0.3	0.6	≤ 15	≤ 10
005-600	5	6.5	42	3.75	0.5			
006-600	6	7.8	60	4.50	0.6			
009-600	9	11.7	135	6.75	0.9			
012-600	12	15.6	240	9.00	1.2			
015-600	15	19.5	375	11.25	1.5			
018-600	18	23.4	540	13.50	1.8			
024-600	24	31.2	960	18.00	2.4			
048-600	48	62.4	3840	36.00	4.8			
110-600	110	143	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.

Characteristics

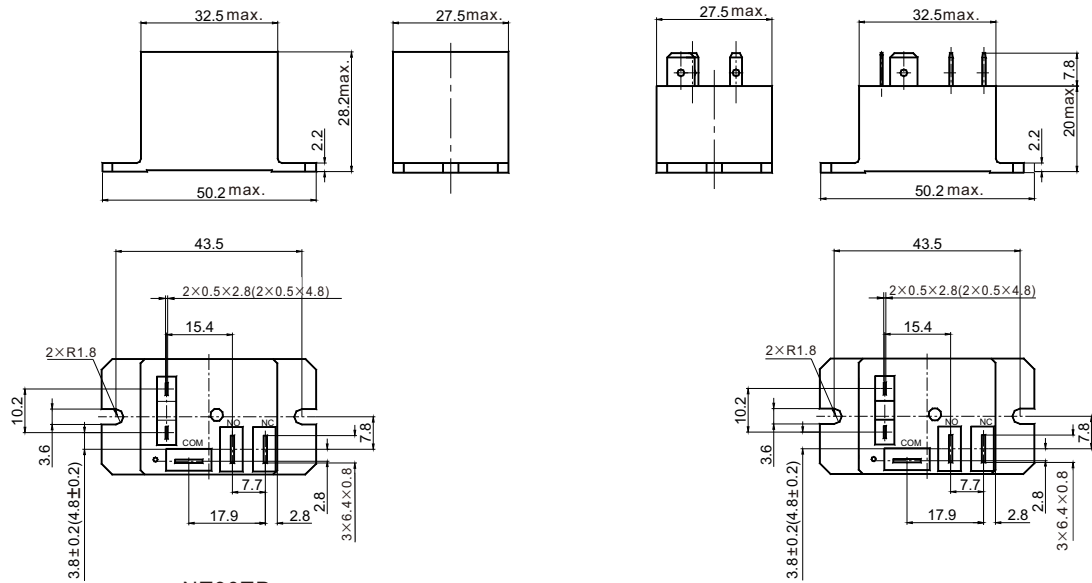
Insulation Resistance	1000M Ω min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Contacts Between Contact and Coil	1500VAC 1min 2500VAC 1min	Item 4.9 of IEC 61810-7
Shock Resistance	Functional: 98m/s ² 11ms	Item 4.26 of IEC 61810-7
	Destructive: 980m/s ² 11ms	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~55Hz Double amplitude 1.5mm	Item 4.28 of IEC 61810-7
Terminals Strength	10N	Item 4.24 of IEC 61810-7
Ambient Temperature	-55°C~85°C	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Mass	35g (Low profile type) 37g	Item 4.7 of IEC 61810-7

Safety Approvals

Safety approval	UL&CUR	TüV
Load	NO:40A/240VAC ;30A/277VAC NC:30A/240VAC,30VDC;20A/277VAC Ballast:5A/280VAC TV-5 NO:2 HP 250VAC A:1HP/16AFLA/120VAC 2HP/12AFLA/240VAC NC:1½HP 250VAC B: 30LRA/10AFLA/120VAC 30LRA/10AFLA/240VAC	NO:40A/240VAC, 14VDC 30A/277VAC NC:30A/240VAC ,14VDC 20A/277VAC

Dimensions

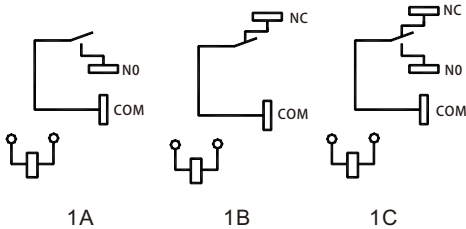
mm



NT90TP

Dimensions

NT90TPL

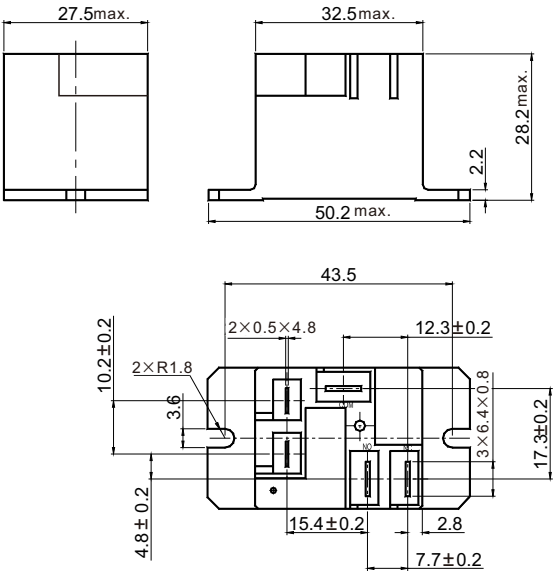


1A

1B

1C

NT90TP
Wiring diagram



NT90TP₂
Mounting

CAUTION: In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

Reference Data

