



32.4×27.5×28

NT90T (50A)

On pending

us E160644

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 appliances applications.
- PC board mounting and direct insert mounting available.

Ordering Information

NT90T 50 L C E 12 S B
 1 2 3 4 5 6 7 8

1 Part number: NT90T(T91)
 2 Load:50:50A
 3 Hihg: Nil: Standard;
 4 Contact arrangement: A:1A;B:1B ;C:1C
 5 Enclosure: S: Sealed type; D: Dust cover;
 E: Covered

6 Coil rated voltage(V): DC:5,6,9,12,15,18,24,48
 7 Contact material: S: AgSnO₂
 8 Resist heat class: B:130℃; F:155℃

Contact Data

Contact Arrangement	1A (SPSTBNO) 1C (SPDT(B-M))
Contact Material	AgSnO ₂
Contact Rating (resistive)	1A:50A/240VAC,30VDC;1B:35A/240VAC,30VDC; 1C:NO:50A/240VAC,30VDC; NC:35A/240VAC,30VDC Motor load: NO:2HP 250VAC ; NC:1.5HP 250VAC Lamp load: TV-5 Electronic Ballast: 5A/280VAC
Max. Switching Power	1500W 12500VA
Max. Switching Voltage	110VDC 300VAC Max. Switching Current:50A
Contact Resistance	<30mΩ Item 4.12 of IEC 61810-7
Operation	Electrical 3×10 ⁴ Item 4.30 of IEC 61810-7
	Mechanical 10 ⁷ Item 4.31 of IEC 61810-7

Coil Parameter

Dash numbers	Coil voltage V		Coil resistance Ω ± 10%	Pick up voltage VDC(max) (75% of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power W	Operate Time ms	Release Time ms
	Rated	Max.						
005-1500	5	6.5	17	3.75	0.5	1.5	<15	<10
006-1500	6	7.8	24	4.50	0.6			
009-1500	9	11.7	54	6.75	0.9			
012-1500	12	15.6	96	9.00	1.2			
015-1500	15	19.5	150	10.25	1.5			
018-1500	18	23.4	216	13.50	1.8			
024-1500	24	31.2	384	18.00	2.4			
048-1500	48	62.4	1536	36.00	4.8			

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.

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Operation condition

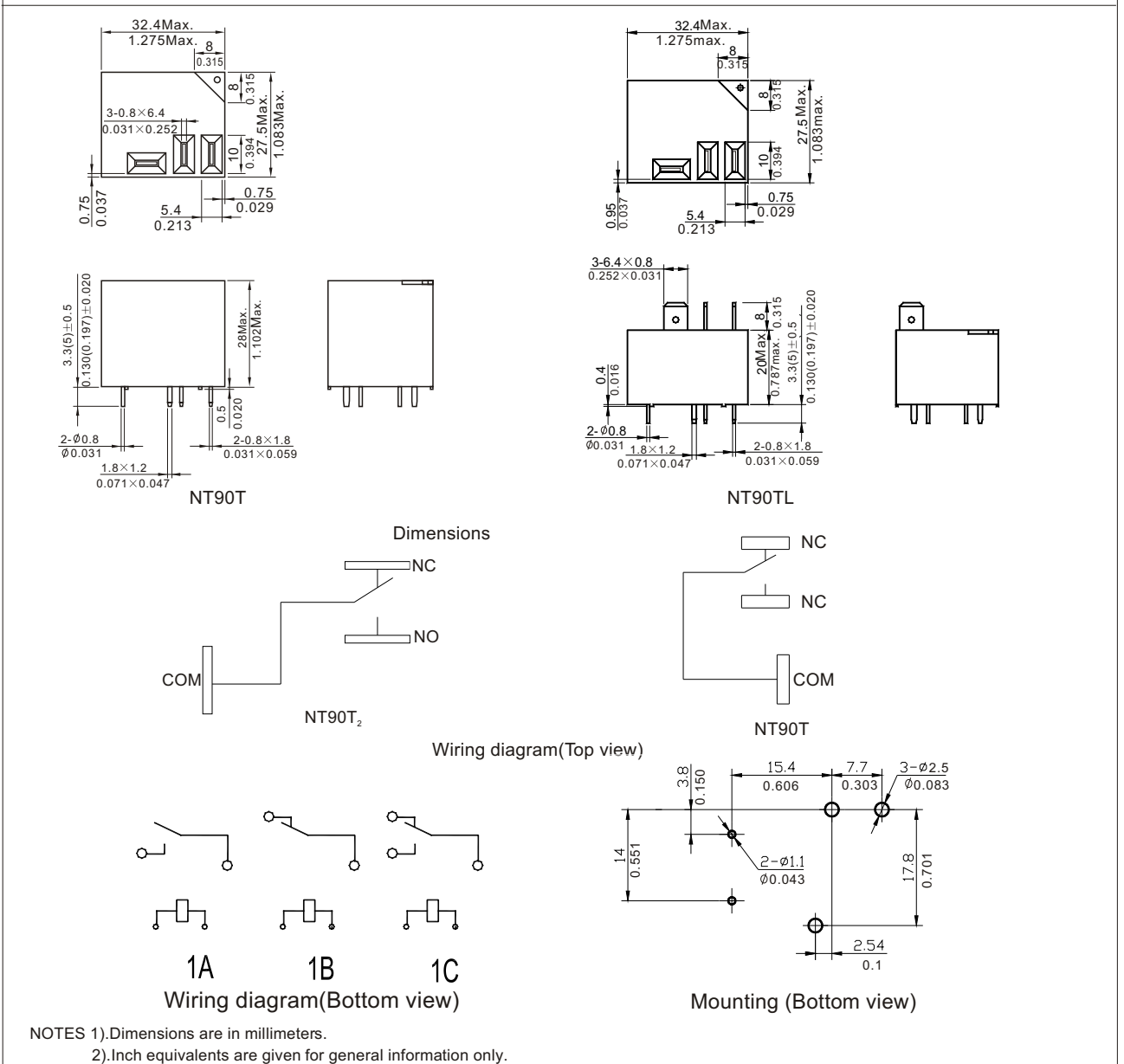
Insulation Resistance	1000M Ω min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength Between contacts Between contact and coil	50Hz 1500V 50Hz 2500V	Item 6 of IEC 60255-5 Item 6 of IEC 60255-5
Shock resistance	200m/s ² 11ms	IEC 60068-2-27 Test Ea
Vibration resistance	10Hz~55Hz double amplitude 1.5mm	IEC 60068-2-6 Test Fc
Terminals strength	10N	IEC 60068-2-21 Test Ua1&Ua2
Solderability	260°C \pm 5°C 5s \pm 0.5s	IEC 60068-2-20 Test Ta method 1
Ambient Temperature	-55°C~85°C	
Relative Humidity	85% (at 40°C)	IEC 60068-2-3 Test Ca
Mass	31g(Open type) 35g	

Safety approvals

Safety approval	UL&CUR	CQC
Load	NO: 50A/240VAC NC: 35A/240VAC	

Dimensions

mm /inch



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