



32.5 × 27.6 × 20.5

NT90 (50A)

c us E160644

R50126373

13002098872

Features
<ul style="list-style-type: none"> 50A contact switching capability. The temperature rise is <80K under 70°C. Terminal width: 1.8mm and 3.3mm available. PC board mounting available. PV power, UPS power, charger, electric car, electric equipment, air conditioner, etc.

Ordering Information
<p>NT90 R 50 A S 24 S F .9</p> <p>1 2 3 4 5 6 7 8 9</p>
<p>1 Part number: NT90</p> <p>2 Terminal: R: without Pin 6; Nil: with Pin 6; W: 3.3mm</p> <p>3 Load: 50:50A</p> <p>4 Contact arrangement: A: 1A; C: 1C</p> <p>5 Enclosure: S: Wash tight; E: Flux proof</p> <p>6 Coil rated voltage (V): DC: 5, 6, 9, 12, 15, 18, 24, 48 AC: 24, 110, 220, 240, 277</p> <p>7 Contact material: S: AgSnO₂</p> <p>8 Resist heat class: F: 155°C</p> <p>9 Coil Power (W): .9: 0.9W; NIL: 1.5W, 2.7VA</p>

1) Wash tight plastic case with knock off nib.

Contact Data	
Contact Arrangement	1A(SPSTNO) 1C(SPDT(B-M))
Contact Material	AgSnO ₂
Contact Rating (Resistive)	NO: 50A/240VAC; NC: 35A/240VAC; Motor Load: 2HP 250VAC; TV-8
Max. Switching Power	12000VA
Max. Switching Voltage	280VAC Max. Switching Current: 50A
Contact Resistance	≤ 30mΩ Item 4.12 of IEC 61810-7
Operation Life	Electrical 3 × 10 ⁴ (50A/277VAC, Resistive load, 40°C, 1s on 9s off) Item 4.30 of IEC 61810-7
	Mechanical 6 × 10 ³ (50A/277VAC, Resistive load, 85°C, 1s on 9s off)
	1 × 10 ⁷ Item 4.31 of IEC 61810-7

2) Remove vent nib after soldering and cleaning.

Coil Power	DC	AC
	0.9W, 1.5W	2.7VA

Coil Parameter								
DC Coil Parameter								
Dash numbers	Rated voltage VDC		Coil resistance Ω ± 10%	Pick-up voltage V(max) (75% of rated voltage)	Drop-out voltage V(min) (10% of rated voltage)	Coil power W	Operate time ms	Release time ms
	Rated	Max						
005-900	5	6.5	28	3.75	0.5	0.9	≤ 15	≤ 10
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	10.25	1.5			
018-900	18	23.4	360	13.50	1.8			
024-900	24	31.2	640	18.00	2.4			
048-900	48	62.4	2560	36.00	4.8			
005-1500	5	6.5	16.7	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 purpose only and are not to be used as design criteria.

