




19.5×16.0×17.1

# NT73-3

 us E160644 
  R50480454  
 08001023923 
  40014769

Features
<ul style="list-style-type: none"> <li>▪ Superminiature, High power.</li> <li>▪ Low coil power consumption.</li> <li>▪ PC board mounting.</li> <li>▪ Suitable for household appliances, automation system, electronic equipment, instrument and meter, communication facilities and remote control facilities.</li> </ul>

Ordering Information
<b>NT73-3</b> <b>C</b> <b>S</b> <b>20</b> <b>DC12V</b> <b>0.36</b> <b>F</b> 1            2            3            4            5            6            7
1 Part number: NT73-3 2 Contact arrangement: A:1A; B:1B; C:1C 3 Enclosure: S: Wash tight D: Flux proof
4 Contact current: 5:5A; 7:7A; 10:10A; 12:12A; 15:15A; 20:20A 5 Coil rated voltage(V): DC:3,5,6,9,12,18,24,36,48 6 Coil power: 0.36:0.36W; 0.45:0.45W; 0.6:0.6W; 0.8:0.8W 7 Resistance heat Class: NIL:130°C; F:155°C

Contact Data	
Contact Arrangement	1A(SPSTNO) 1B(SPSTNC) 1C(SPDT(B-M))
Contact Material	AgSnO <sub>2</sub>
Contact Rating (Resistive)	5A,10A/250VAC; 7A,16A/277VAC;12A,20A/125VAC; 15A/250VAC(1A) TV-8 Motor Load: NO:1HP(AFLA)125VAC,250VAC 20A/125VAC NC:1/2HP(AFLA)125VAC,250VAC 20A/125VAC
Max. Switching Power	4450VA
Max. Switching Voltage	277VAC
Contact Resistance	≤100mΩ
Operational Life	Electrical: 10 <sup>5</sup> , 5×10 <sup>4</sup> (1C), 1×10 <sup>4</sup> (15A/250VAC 85°C) Mechanical: 1×10 <sup>7</sup>

**CAUTION:** 1.For the intermediate current, it only applies to the room temperature.

### Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance Ω ±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.						
003-360	3	3.9	25	2.25	0.3	0.36	≤15	≤10
005-360	5	6.5	69	3.75	0.5			
006-360	6	7.8	100	4.50	0.6			
009-360	9	11.7	225	6.75	0.9			
012-360	12	15.6	400	9.00	1.2			
018-360	18	23.4	900	13.5	1.8			
024-360	24	31.2	1600	18.0	2.4			
036-360	36	46.8	3600	27.0	3.6			
048-360	48	62.4	6400	36.0	4.8			
003-450	3	3.9	20	2.25	0.3	0.45	≤15	≤10
005-450	5	6.5	55.6	3.75	0.5			
006-450	6	7.8	80	4.50	0.6			
009-450	9	11.7	180	6.75	0.9			
012-450	12	15.6	320	9.00	1.2			
024-450	24	31.2	1280	18.0	2.4			
048-450	48	62.4	5120	36.0	4.8			
003-600	3	3.9	15	2.25	0.3			
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			
024-600	24	31.2	960	18.0	2.4			
048-600	48	62.4	3840	36.0	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.

Dash numbers	Coil voltage VDC		Coil resistance $\Omega \pm 10\%$	Pickup 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.						
003-800	3	3.9	11	2.25	0.3	0.80	$\leq 15$	$\leq 10$
005-800	5	6.5	31	3.75	0.5			
006-800	6	7.8	45	4.50	0.6			
009-800	9	11.7	101	6.75	0.9			
012-800	12	15.6	180	9.00	1.2			
024-800	24	31.2	720	18.0	2.4			
048-800	48	62.4	2880	36.0	4.8			

### Characteristics

Insulation Resistance	250M $\Omega$ min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength	50Hz 1000V	Item 4.9 of IEC 61810-7
Between Contacts	50Hz 2500V Surge Voltage:4kV	Item 4.9 of IEC 61810-7
Between Contact and Coil		
Shock Resistance	98m/s <sup>2</sup> 11ms	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~55Hz Double amplitude 1.0mm	Item 4.28 of IEC 61810-7
Terminals Strength	5N	Item 4.24 of IEC 61810-7
Ambient Temperature	-40 $^{\circ}$ C~85 $^{\circ}$ C	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Mass	10g	Item 4.7 of IEC 61810-7

### Safety Approvals

Safety approval	UL&CUR	TÜV	VDE	CQC
Load	16A/277VAC; 10A/250VAC; TV-8 NO: 1HP(16AFLA)125VAC, 250VAC; 20A/125VAC NC: 1/2HP(9.8AFLA)125VAC, 250VAC; 20A/125VAC	NO: 15A/250VAC	NO: 10A/250VAC NC: 7A/250VAC	10A/250VAC

### Dimensions

**mm**

Dimensions

Wiring diagram (Bottom view)

1A      1B      1C

Mounting (Bottom view)

**CAUTION:** In case of no tolerance shown in outline dimension: outline dimension  $\leq 1$ mm, tolerance should be  $\pm 0.2$ mm; outline dimension  $> 1$ mm and  $\leq 5$ mm, tolerance should be  $\pm 0.3$ mm; outline dimension  $> 5$ mm, tolerance should be  $\pm 0.4$ mm.

### Reference Data

