



29×12.7×15.8

NT75H



us E169380



40020063

Features

- Small size, light weight and low coil power consumption.
- 25A contact switching capacity.
- 5kV dielectric strength (between coil and contact).
- PC board mounting available.
- Product in accordance to IEC60335-1 available.
- IEC60079 compliant.

Ordering Information

NT75H **A** **S** **0.41** **5** **25** **W** **DC12V**

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|---|---|
| 1 Part number: NT75H | 6 Contact rating: 25:25A; NIL:20A,16A |
| 2 Contact arrangement: A:1A; C:1C | 7 Contact plating: Nil:Standard; G: Au plated |
| 3 Enclosure: S: Wash tight; Z: Flux proof | 8 Special request: W: 335 compliant; Nil:Standard |
| 4 Coil power: 0.25:0.25W; 0.41:0.41W | 9 Coil rated voltage(V): DC: 5,6,9,12,18,24,48 |
| 5 Pin distance: 5:5mm | |

Contact Data

Contact Arrangement	1A(SPSTNO) 1C(SPDT(B-M))	
Contact Material	AgSnO ₂	
Contact Rating	1A	1C
	0.41W: 16A,20A,25A/250VAC 0.25W: 16A/250VAC	0.41W: NO:16A./250VAC NC:16A/250VAC 0.25W: NO:16A/250VAC NC:12A/250VAC
	Motor load:1HP 120VAC/240VAC; TV-8	
Max. Switching Power	6250VA	
Max. Switching Voltage	440VAC	Max. Switching Current:25A
Contact Resistance	≤100mΩ	Item4.12 of IEC61810-7
Electrical Endurance	25A/250VAC 105℃ 8×10 ⁴ 20A/250VAC 105℃ 1×10 ⁵ 16A/250VAC 105℃ 1×10 ⁵ 1HP 120VAC/240VAC 6×10 ³ TV-8 2.5×10 ⁴ Item 4.30 of IEC 61810-7	
Mechanical Endurance	1×10 ⁷	Item 4.31 of IEC 61810-7

Coil Parameter

Coil voltage VDC		Coil resistance Ω ± 10%	Pick-up voltage VDC(max.) (70% of rated voltage)	Drop-out voltage VDC(min.) (10% of rated voltage)	Coil power W	Operate time ms	Release time ms
Rated	Max.						
5	6.5	61	3.5	0.5	0.41	≤15	≤8
6	7.8	88	4.2	0.6			
9	11.7	198	6.3	0.9			
12	15.6	351	8.4	1.2			
18	23.4	790	12.6	1.8			
24	31.2	1405	16.8	2.4			
48	62.4	5620	33.6	4.8			

Coil Parameter

Coil voltage VDC		Coil resistance $\Omega \pm 10\%$	Pick-up voltage VDC(max.) (70% of rated voltage)	Drop-out voltage VDC(min.) (10% of rated voltage)	Coil power W	Operate time ms	Release time ms
Rated	Max.						
5	6.5	100	3.5	0.5	0.25	≤ 15	≤ 8
6	7.8	144	4.2	0.6			
9	11.7	324	6.3	0.9			
12	15.6	576	8.4	1.2			
18	23.4	1296	12.6	1.8			
24	31.2	2304	16.8	2.4			
48	62.4	9216	33.6	4.8			

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.

Characteristics

Insulation Resistance	1000M Ω min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Open Contacts Between Contact and Coil	1000VAC 1min 5000VAC 1min	Item 4.9 of IEC 61810-7
Surge voltage (Between Contact and Coil)	10kV(1.2/50 μ s)	Item 4.10 of IEC 61810-7
Shock Resistance	Functional: 98m/s ² 11ms	Item 4.26 of IEC 61810-7
	Destructive: 980m/s ² 11ms	
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	-40℃~105℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Weight (Approx.)	13.5g	Item 4.7 of IEC 61810-7

Safety Approvals

Safety approval	UL&CUR	VDE
Load	0.41W NO:25A/250VAC 105℃ 8×10^4 NO:20A/250VAC 105℃ 5×10^4 NO:16A/250VAC 105℃ 1×10^5 1HP 120VAC/240VAC 6×10^3 TV-8 2.5×10^4 0.25W NO:16A/250VAC 105℃ 1×10^5	0.41W 20A/250VAC 85℃ 5×10^4 16A/250VAC 105℃ 1×10^5

