



29×12.7×15.8

NT75H

UL US E158859 40020063
CEC 10002042304

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
1 2 3 4 5 6 7 8 9

- 1 Part number: NT75H
2 Contact arrangement: A:1A; C:1C
3 Enclosure: S: Wash tight; Z: Flux proof
4 Coil power: 0.25:0.25W; 0.41:0.41W
5 Pin distance: 5:5mm

6 Contact current: 25:25A; NIL:20A,16A
7 Contact plating: Nil:Standard; G:Au plated
8 Special request: W: 335 compliant: Nil:Standard
9 Coil rated voltage(V): DC: 5,6,9,12,18,24,48

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	0.41W: 25A/250VAC 105℃ 8×10 ⁴ 20A/250VAC 105℃ 1×10 ⁵ TV-8 2.5×10 ⁴ 0.25W: 16A/250VAC 105℃ 1×10 ⁵ Item 4.30 of IEC 61810-7	
Mechanical Endurance	1×10 ⁷ Item 4.31 of IEC 61810-7	

Coil Parameter

Dash numbers	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.						
005-410	5	6.5	61	3.5	0.5	0.41	≤15	≤8
006-410	6	7.8	88	4.2	0.6			
009-410	9	11.7	198	6.3	0.9			
012-410	12	15.6	351	8.4	1.2			
018-410	18	23.4	790	12.6	1.8			
024-410	24	31.2	1405	16.8	2.4			
048-410	48	62.4	5620	33.6	4.8			

Coil Parameter

Dash numbers	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.						
005-250	5	6.5	100	3.5	0.5	0.25	≤ 15	≤ 8
006-250	6	7.8	144	4.2	0.6			
009-250	9	11.7	324	6.3	0.9			
012-250	12	15.6	576	8.4	1.2			
018-250	18	23.4	1296	12.6	1.8			
024-250	24	31.2	2304	16.8	2.4			
048-250	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.

Safety Approvals

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

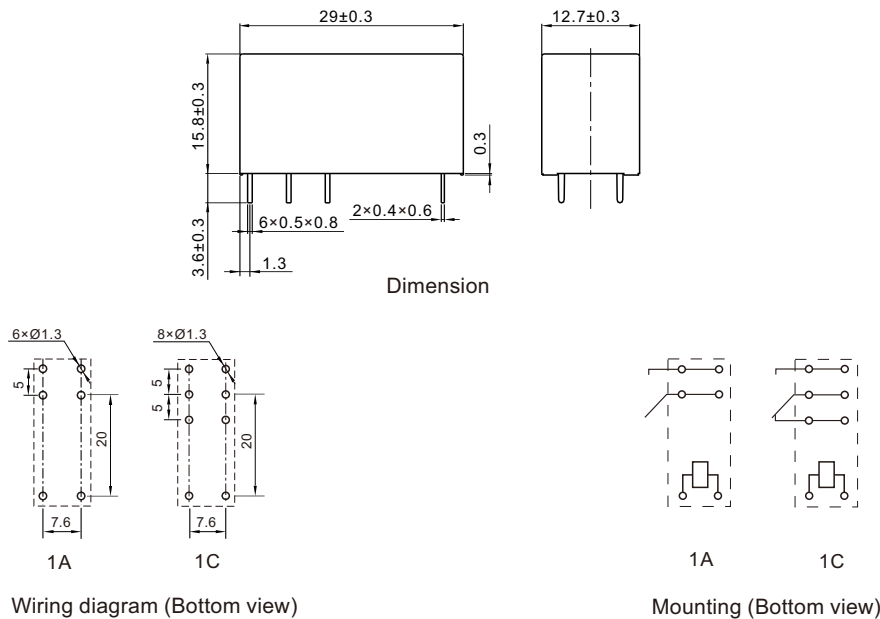
Characteristics

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: 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°C~105°C	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Weight (Approx.)	13.5g	Item 4.7 of IEC 61810-7

FORWARD RELAYS

Dimensions

mm



Remark: 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

