29×12.7×15.8

NT75

c UL us E169380 VDE 40020063

Features

- Small size, light weight.Low coil consumption.
- 20A switching capacity.
- PC board mounting.
- Product in accordance to IEC60335-1 available.

Ordering Information

NT75	1C	S	0.41	3.5	N	G	12	DC12V	W
1	2	3	4	5	6	7	8	9	10

1 Part number: NT75
2 Contact arrangement:
1A:1A; A2:1A2; 1C:1C; C2:1C2; 2A:2A; 2C:2C
3 Enclosure: S: Wash tight; Z: Flux proof
4 Coil power: 0.25:0.25W; 0.41:0.41W; 0.53:0.53W
5 Pin distance: 3.5:3.5mm; 5:5.0mm
6 Contact material: NIL:AgSnO2; N:AgNi
7 Contact plating: Nil:Standard; G:Au plated
8 Contact rating: 1A,1C:12: 12A;16:16A
2A,2C(0.41W): 8:8A
2A(0.53W): 10:10A
9 Coil rated voltage(V): DC:5,6,9,12,24,48
10 Special request: W: 335 compliant; Nil:Standard

Contact Data

Contact Arrangement	1A(SPSTNO) 1C(SPDT(B-M)) 2A(DPSTNO) 2C(DPDT(B-M))	
Contact Material	$AgSnO_2$ AgNi	
Contact Rating	1A,1C:12A,16A/250VAC,30VDC (Rushing current 80A) 2A,2C(0.41W):NO:8A/277VAC,30VDC; NC:8A/277VAC,30VDC 2A(0.53W):10A/250VAC,30VDC	
Max. Switching Power	1C:480W 4000VA 2C:300W 2500VA	
Max. Switching Voltage	300VDC 440VAC	Max. Switching Current:20A
Contact Resistance	≤100mΩ	Item 4.12 of IEC 61810-7
Electrical Endurance	1×10^5 2A: 5×10^4(10A/250VDC 85℃) 2A: 1×10^4(10A/30VDC 85℃)	Item 4.30 of IEC 61810-7
Mechanical Endurance	1×10^7	Item 4.31 of IEC 61810-7

Notes: For gold plated version, the min. switching current and min. switching voltage is 50mA/6VDC; for non gold plated version (standard type),the min. switching current and min. switching voltage is 100mA/6VDC.

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	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			
24	31.2	2304	16.8	2.4			
48	62.4	9216	33.6	4.8			
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			
24	31.2	1405	16.8	2.4			
48	62.4	5620	33.6	4.8			

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.						
005-530	5	6.5	47.1	3.5	0.5	0.53	⩽15	⩽8
006-530	6	7.8	67.9	4.2	0.6			
009-530	9	11.7	152.8	6.3	0.9			
012-530	12	15.6	271.7	8.4	1.2			
024-530	24	31.2	1086.8	16.8	2.4			
048-530	48	62.4	4347.2	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.

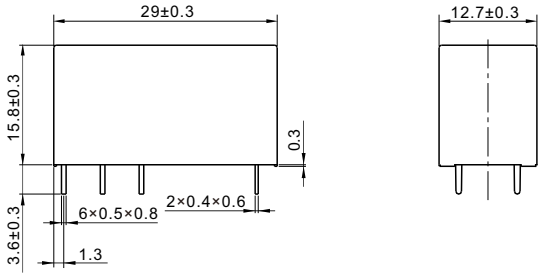
Characteristics

Insulation Resistance	1000MΩ 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
Shock Resistance	98m/s^2 11ms	Item 4.26 of IEC 61810-7
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℃~85℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Weight (Approx.)	12.5g 13.2g(2C)	Item 4.7 of IEC 61810-7

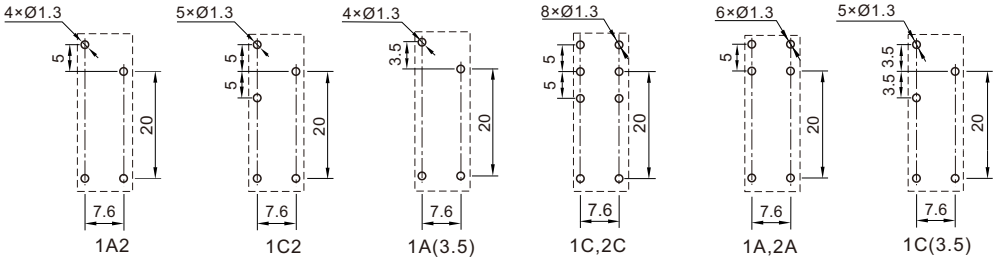
Safety Approvals

Safety approval	UL&CUR	VDE	CQC
Load	1A,1C: 12A,16A/250VAC; 12A/30VDC(1C) 2A,2C: 8A/277VAC,30VDC 2A(0.53W): 10A/250VAC,30VDC	1A,1C:16A/250VAC 2A,2C:8A/250VAC	1A,1C:16A/250VAC 2A,2C:8A/250VAC

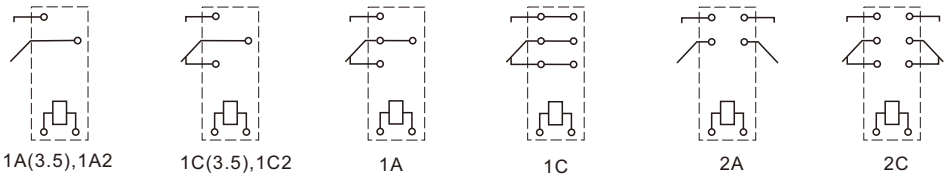
Dimensions mm



Dimension



Mounting (Bottom view)

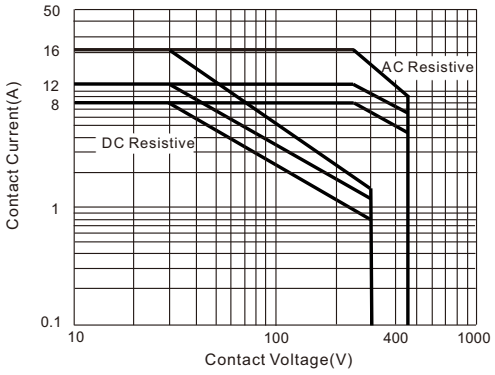


Wiring diagram(Bottom view)

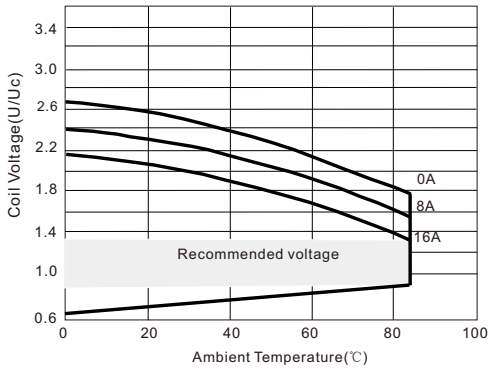
Remark: In case of no tolerance shown in outline dimension: outline dimension≤1mm,tolerance should be ±0.2mm ; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

Reference Data

Contact Switching Capacity



Coil Operating Range(DC)



Notes:The use of a relay with an energising voltage other than the rated coil voltage may lead to reduced electrical endurance.
An energising voltage over the above range may damage the insulation of relay coil.