



29×12.7×15.8

UL E169380

40020063

NT75

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 Pole-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:12A,16A/250VAC 30VDC
 2A,2C(0.41W):NO:8A/277VAC,30VDC
 NC:8A/277VAC,30VDC
 2A(0.53W):10A/250VAC,30VDC
 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

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.						
005-250	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			
024-250	24	31.2	2304	16.8	2.4			
048-250	48	62.4	9216	33.6	4.8			
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			
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.						
005-530	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	1000M Ω min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between 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°C~85°C	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Weight (Approx.)	12.5g 13.2g	Item 4.7 of IEC 61810-7

Safety Approvals

Safety approval	UL&CUR	VDE
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

