

N4100 (N4100F) & N4100F-2



15.7×11×11.5

UL US E158859

R50080053

Features

- Low coil power consumption.
- High sensitivity.
- Small size, light weight.
- PC board mounting.
- Suitable for automation facilities, telecommunication equipment, household electrical appliance, wireless radio remote control, sound control toys application etc.

Ordering Information

N4100 C H S 3 DC12 A C
 1 2 3 4 5 6 7 8

1 Part number: N4100(N4100F); N4100F-2
 2 Contact arrangement: A:1A; C:1C
 3 Coil power: NIL:0.36W(Standard);
 B:0.45W(Heavy load); H:0.2W(High sensitivity)
 4 Enclosure: S: Wash tight; NIL: Flux proof

5 Contact current: NIL:1A; 2:2A; 3:3A; 5:5A
 6 Coil rated voltage(V): DC:3,5,6,9,12,18,24
 7 Contact material: NIL:AgNi; A:Ag
 8 Bobbin configuration: C:Combined bobbin

Contact Data

Contact Arrangement	1A(SPSTNO) 1C(SPDT(B-M))		
Contact Material	Ag Alloy(Au plated)		
Contact Rating(Resistive)	1A,2A,3A,5A/125VAC,30VDC ;5A/14VDC; 2A/250VAC(N4100F-2 only)		
Max. Switching Power	150W 625VA		
Max. Switching Voltage	30VDC 250VAC	Max. Switching Current: 5A	
Contact Resistance	≤50mΩ	Item4 .12 of IEC 61810-7	
Operational Life	Electrical	1×10 ⁵	Item4 .30 of IEC 61810-7
	Mechanical	1×10 ⁷	Item 4.31 of IEC 61810-7

CAUTION: 1.For the intermediate current, it only applies to the room temperature.
 2.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) (75%of rated voltage)	Drop-out voltage VDC(min) (10% of rated voltage)	Coil power W	Operate time ms	Release time ms
	Rated	Max						
003-200	3	3.3	45	2.25	0.3	0.2	≤5	≤5
005-200	5	5.5	125	3.75	0.5			
006-200	6	6.6	180	4.50	0.6			
009-200	9	9.9	405	6.75	0.9			
012-200	12	13.2	720	9.00	1.2			
018-200	18	19.8	1620	13.5	1.8			
024-200	24	26.5	2880	18.0	2.4			
003-360	3	3.3	25	2.25	0.3	0.36	≤5	≤5
005-360	5	5.5	75	3.75	0.5			
006-360	6	6.6	100	4.50	0.6			
009-360	9	9.9	225	6.75	0.9			
012-360	12	13.2	400	9.00	1.2			
018-360	18	19.8	900	13.5	1.8			
024-360	24	26.5	1600	18.0	2.4			
003-450	3	3.3	20	2.25	0.3	0.45	≤5	≤5
005-450	5	5.5	56	3.75	0.5			
006-450	6	6.6	80	4.50	0.6			
009-450	9	9.9	180	6.75	0.9			
012-450	12	13.2	320	9.00	1.2			
018-450	18	19.8	720	13.5	1.8			
024-450	24	26.5	1280	18.0	2.4			

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.

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Characteristics

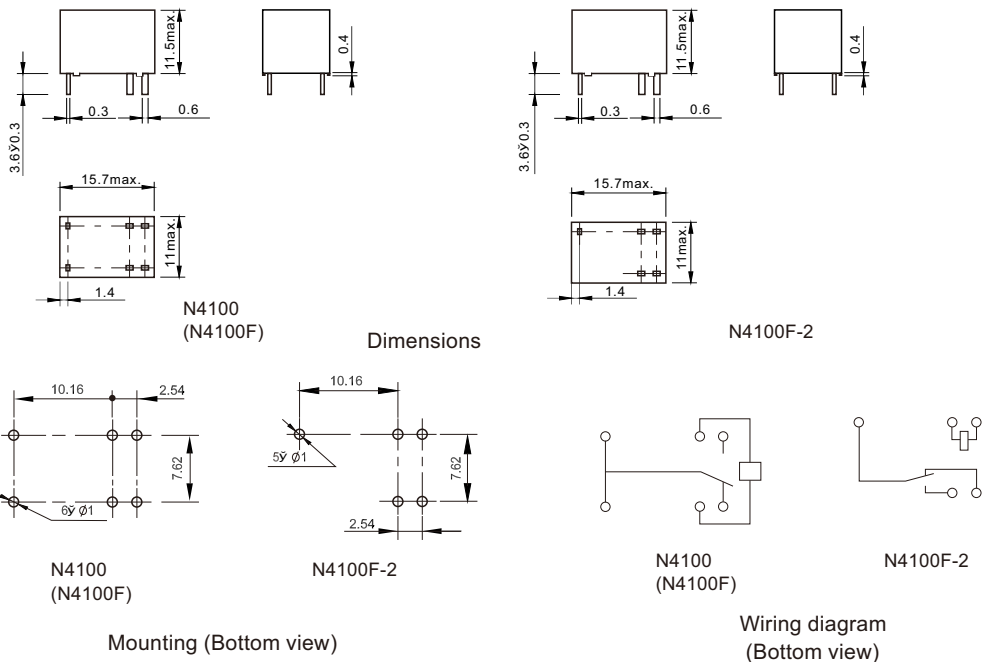
Insulation Resistance	100M Ω min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Contacts Between Contact and Coil	50Hz 500V 50Hz 1000V	Item 4.9 of IEC 61810-7 Item 4.9 of IEC 61810-7
Shock Resistance	98m/s ² 11ms	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~55Hz Double amplitude 1.5mm	Item 4.28 of IEC 61810-7
Terminals Strength	5N	Item 4.24 of IEC 61810-7
Ambient Temperature	-25℃~85℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Mass	3.8g	Item 4.7 of IEC 61810-7

Safety Approvals

Safety approval	UL&CUR	TUV
Load	5A/125VAC,30VDC; 5A/14VDC	N4100F-2: 2A/250VAC; 5A/30VDC

Dimensions

mm



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

Reference Data

