

N4100 (N4100F) & N4100F-2



Patent No.: 95 2 11073.3 200520014568.5
 R50080055
 200630113915.X

15.5X11X11.5

Features

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

Ordering Information

N4100		C	H	S	3	DC12V	A	7	8
1	2	3	4	5	6	7	8		

1 Part number: N4100(N4100F); N4100F-2
 2 Contact arrangement: A:1A; B:1B; C:1C
 3 Coil power consumption: NIL;0.36W (Standard); 0.45W (Heavy load); H:0.2W (High sensitivity)
 4 Enclosure: S: Sealed type; NIL: Dust cover
 5 Contact current: NIL;1A; 2.2A; 3.3A; 5.5A
 6 Coil rated voltage(V): DC:3.5,6.9,12,24
 7 Contact material: NIL; AgNi; A-Ag
 8 Bobbin configuration:NIL;Standard; C:combined bobbin

Contact Data

Contact Arrangement	1A (SPSTNO) 1B (SPSTNC) 1C (SPDT(B-M))
Contact Material	Ag (Au gold); AgNi(Au plating)
Contact Rating (resistive)	TA:2A,3A,5A/30VDC; 125VAC; 5A/14VDC
Max. Switching Power	150W 825VA
Max. Switching Voltage	60VDC 220VAC
Contact Resistance or Voltage drop	≤50mΩ
Operational life	Electrical: 10 ⁶ Mechanical: 10 ⁷

Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance Ω ±10%	Pickup voltage VDC(max) (75%of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power consumption 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	0.2	<5	<5
006-200	6	6.6	180	4.50	0.6	0.2	<5	<5
009-200	9	9.9	405	6.75	0.9	0.36	<5	<5
012-200	12	13.2	720	9.00	1.2	0.45	<5	<5
024-200	24	26.5	2880	18.0	2.4	0.45	<5	<5
003-360	3	3.3	25	2.25	0.3	0.36	<5	<5
005-360	5	5.5	75	3.75	0.5	0.36	<5	<5
006-360	6	6.6	100	4.50	0.6	0.36	<5	<5
009-360	9	9.9	225	6.75	0.9	0.45	<5	<5
012-360	12	13.2	400	9.00	1.2	0.45	<5	<5
024-360	24	26.5	1600	18.0	2.4	0.45	<5	<5
003-450	3	3.3	20	2.25	0.3	0.45	<5	<5
005-450	5	5.5	56	3.75	0.5	0.45	<5	<5
006-450	6	6.6	80	4.50	0.6	0.45	<5	<5
009-450	9	9.9	180	6.75	0.9	0.45	<5	<5
012-450	12	13.2	320	9.00	1.2	0.45	<5	<5
024-450	24	26.5	1280	18.0	2.4	0.45	<5	<5

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.

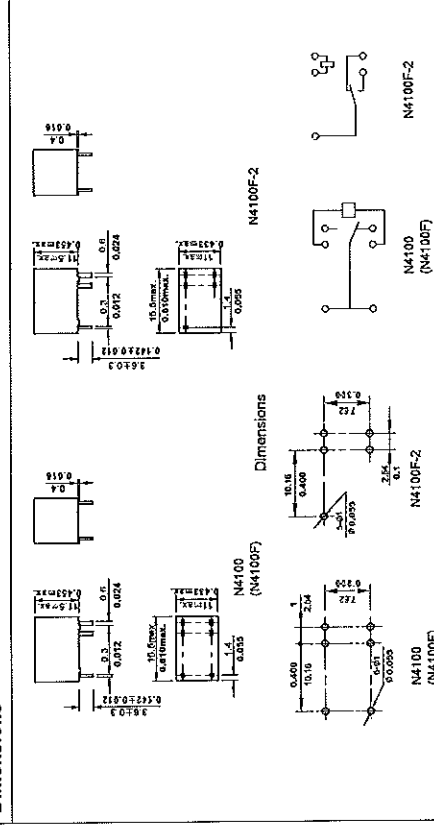
Operation condition

Insulation Resistance	100MΩ min (at 500VDC)	Item 7 of IEC 61810-5
Dielectric Strength	50Hz 500V	Item 6 of IEC 61810-5
Between contacts	50Hz 1000V	Item 6 of IEC 61810-5
Shock resistance	100m/s ² 11ms	IEC68-2-27 Test Ea
Vibration resistance	10~55Hz double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminal strength	5N	IEC68-2-21 Test Ua1
Solderability	235°C ±2°C 3±0.5s	IEC68-2-20 Test T3 method 1
Ambient Temperature	-25~70°C	IEC68-2-3 Test Ca
Relative Humidity	85% (at 40°C)	
Mass	3.5g	

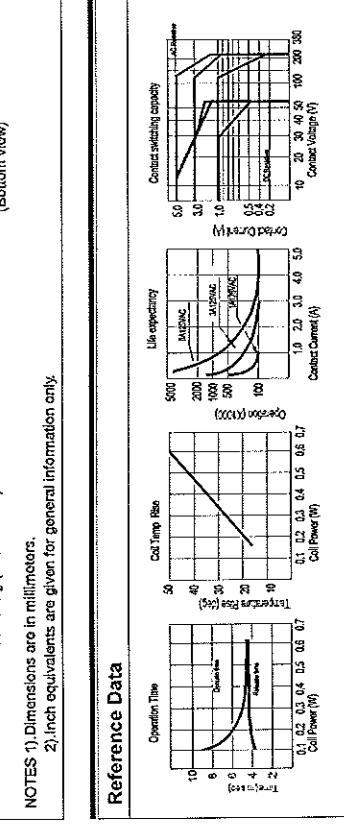
Safety approvals

Safety approval	UL&CUR	TUV
Load	5A/125VAC 5A/30VDC 5A/14VDC	2A/250VAC 5A/30VDC

Dimensions



Reference Data



NOTES 1). Dimensions are in millimeters.
 2). Inch equivalents are given for general information only.