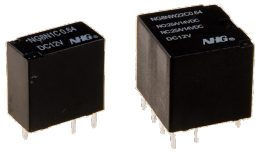
NG8N&NG8NW



14.3×7.2(15.7)×13.5

Features

- Small size and light weight.
- Low coil power consumption.
- Self-locking motor load can achieve 25A .
- PC board relay with high reliability.
- Suitable for reflow soldering.
- Suitable for home appliance application , motor positive-negative control, wiper and so on.

Ordering Information

NG8N	1S	R	C	0.80	DC12V
1	2	3	4	5	6

1 Part number: NG8N, NG8NW
2 Sensitivity: 1:Standard
1S:High sensitivity
1L:High temperature
1H:High temperature/High sensitivity

3 Soldering method: NIL: Standard; R: Reflow soldering
4 Contact arrangement: GN8N:C:1C; NG8NW:2C:2C(Twin)
5 Coil power: 0.64:0.64W; 0.80:0.80W
6 Coil rated voltage(V): DC:12, 24

Notes: 1. The R type relay is with the reflow soldering capability and it is not the sealed relay.
2. Please contact the relevant personnel in our factory when using the R type relay.

Contact Data

Contact Arrangement	NG8N:1C(SPDT(B-M)) NG8NW:2C (Twin)	
Contact Material	$AgSnO_2$	
Contact Rating	25A motor lock (14VDC)	
Max. Switching Power	480W	
Max. Switching Voltage	16VDC	Max. Switching Current:30A
Voltage Drop(Initial)	Typ.: 50mV(at 10A)	Item 4.12 of IEC 61810-7
Electrical Endurance	1×10^5	Item 4.30 of IEC 61810-7
Mechanical Endurance	1×10^6	Item 4.31 of IEC 61810-7

Coil Parameter

Model	Coil voltage VDC		Coil resistance Ω ± 10%	Pick-up voltage VDC(max)	Drop-out voltage VDC(min)	Coil power W	Operate time ms	Release time ms
	Rated	Max.						
1	12	16	225	7.2	1.0	0.64	≤10	≤5
1S	12	16	180	6.5	1.0	0.80		
1L	12	16	225	7.2	1.0	0.64		
IH	12	16	180	6.5	1.0	0.80		
1	24	32	900	14	2.0	0.64	≤10	≤5
1S	24	32	720	13	2.0	0.80		

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.

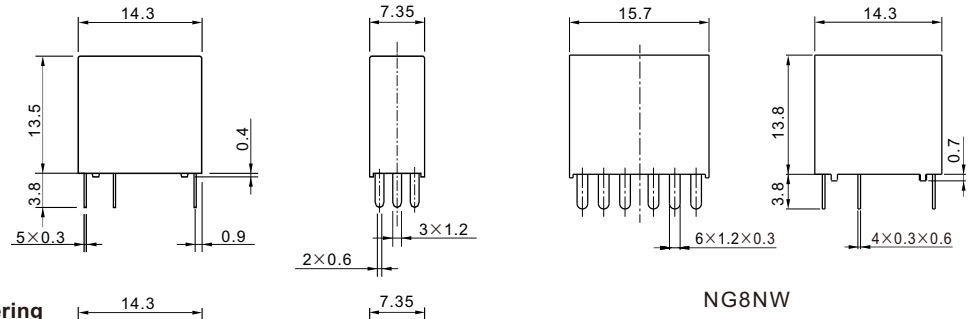
Characteristics

Insulation Resistance	100MΩ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Contacts Between Contact and Coil	 500VAC 1min 500VAC 1min	Item 4.9 of IEC 61810-7
Shock Resistance	Functional: 98m/s^2	Item 4.26 of IEC 61810-7
	Destructive: 980m/s^2	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	-40~105℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Weight (Approx.)	4.1g 8g(NG8NW)	Item 4.7 of IEC 61810-7

Dimensions

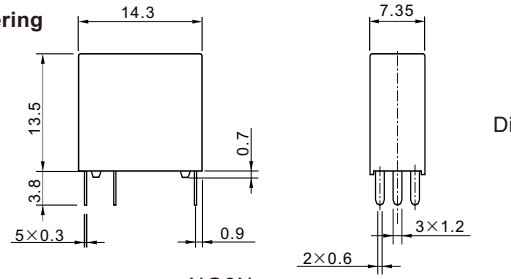
mm

Standard



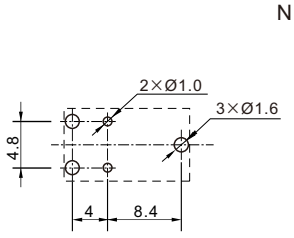
NG8NW

Reflow soldering

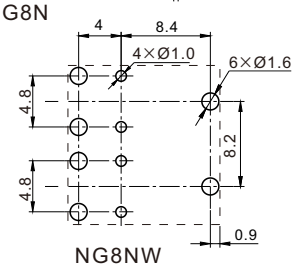


NG8N

Dimensions

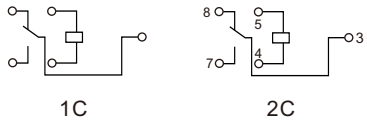


NG8N



NG8NW

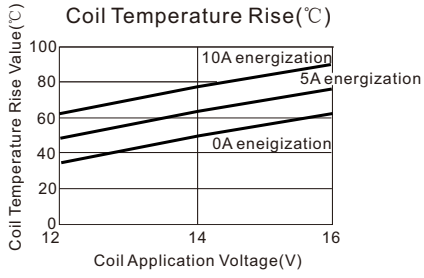
Mounting (Bottom view)



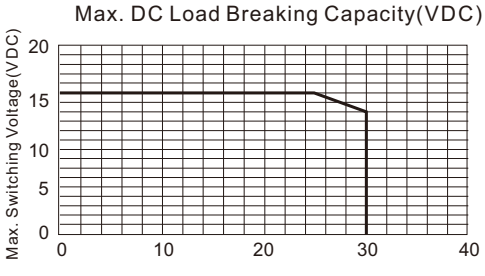
Wiring diagram (Bottom view)

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

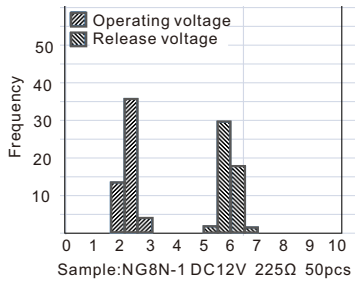


Sample : NG8N-1S 12VDC 180Ω 5pcs



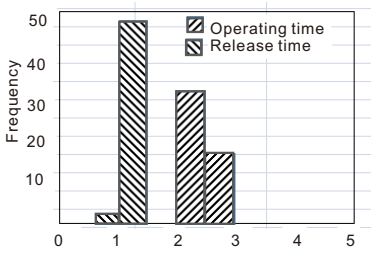
Reference Data

Operating and Release Voltage (V)



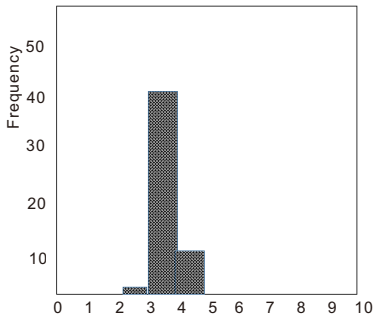
Sample:NG8N-1 DC12V 225Ω 50pcs

Operating Time and Release Time (ms)



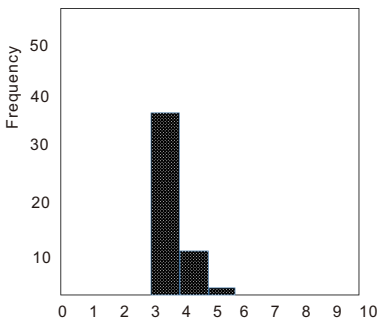
Sample: NG8N-1 12VDC 225Ω 50pcs
Diode to absorb coil surge, without resistor

NO Contact Resistance (m Ω)



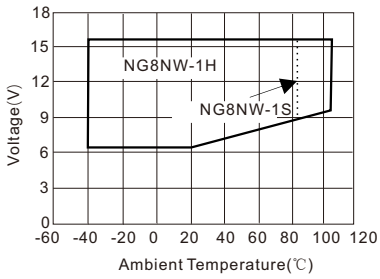
Sample:NG8N-1 DC12V 225Ω 50pcs

NC Contact Resistance (m Ω)

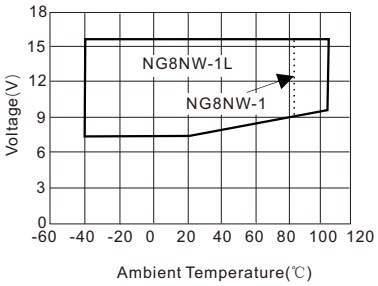


Sample :NG8N-1 DC12V 225Ω 50pcs

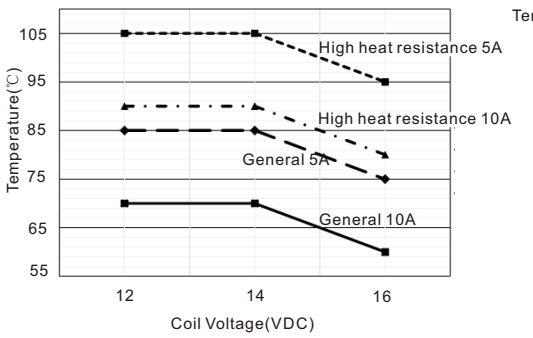
Ambient Temperature and Service Voltage Range(Cold Start)



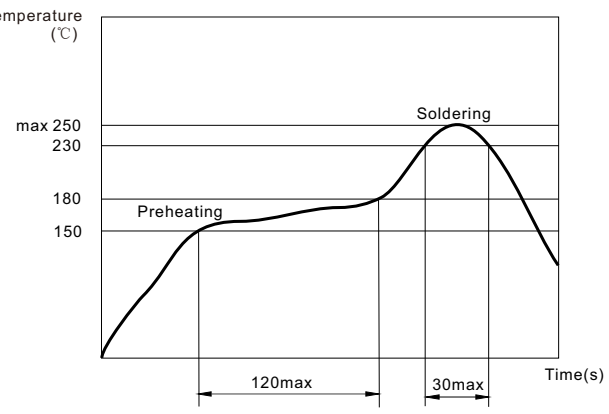
Ambient Temperature and Service Voltage Range(Cold Start)



Continuous Electricity Allowed Range



Reflow Soldering, Temperature on PCB Board



Recommended soldering temperature, only for reflow soldering version

Notes: Contact electric current :5A (10A for reference date)
Max. Coil temperature general 155℃
Max. Coil temperature high heat resistance 180℃