



NG8QN



Features

- Small size, light weight.
- Low coil consumption.
- PC board mounting.
- Suitable for household electrical appliance, automobile system, window、 wipe motor ,hours, doorlock

Ordering Information

NG8QN C S 10 DC12V 0.69

1 2 3 4 5 6

- 1 Part number: NG8QN

2 Contact arrangement: C:1C

3 Enclosure: S: Sealed type; NIL: Dust cover
- 4 Contact rating: 10A/14VDC

5 Coil rated Voltage(V): DC:12

6 Coil power consumption: 0.69:0.69W

Contact Data

Contact Arrangement	1C (SPDT(B-M))
Contact Material	Ag·CdO Ag·SnO ₂
Contact Rating (resistive)	5A, 10A/14VDC
	inrush current 30A (L/R=7mS; 15mS max)
Max. Switching Power	150W
Max. Switching Voltage	16VDC
Contact Resistance or Voltage drop	≤100mΩ
	250mV(at10A)
Operation life	Electrical 10 ⁵
	Mechanical 10 ⁷

Max. Switching Current:30A

Item 3.12 of IEC255-7

Item 3.12 of IEC255-7

Item 3.30 of IEC255-7

Item 3.31 of IEC255-7

Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance Ω±10%	Pickup voltage VDC(max) (61%of rated voltage)	release voltage VDC(min) (7.5% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
012-690	12	16	210	7.3 9.0(at 80℃)	0.9	0.69	≤10	≤5

CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.

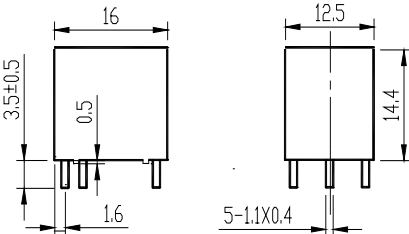
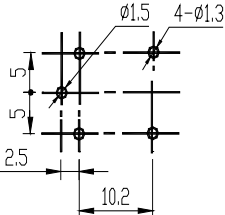
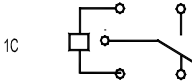
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Operation condition

Insulation Resistance	20M Ω min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength		
Between contacts	50Hz 500V	Item 6 of IEC255-5
Between contact and coil	50Hz 500V	Item 6 of IEC255-5
Shock resistance	100m/s ² 11ms	IEC68-2-27 Test Ea
Vibration resistance	10~55Hz double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	5N	IEC68-2-21 Test Ua1
Solderability	235℃ ± 2℃ 3 ± 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~85℃	
Relative Humidity	85% (at 40℃)	IEC68-2-3Test Ca
Mass	5.5g	

Qualification inspection:

Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.

Dimensions (Unit: mm)		
 Dimensions		
 Mounting (Bottom views)		
 Wiring diagram (Bottom views)		
	mm	inch
	0.3	0.012
	0.4	0.016
	0.5	0.020
	1.0	0.039
	1.2	0.047
	1.3	0.051
	1.5	0.059
	1.6	0.062
	2.5	0.098
	3.5	0.138
	10	0.394
	10.2	0.401
	12.5	0.492
	14.4	0.480
	15.3	0.602
	16.0	0.630
NOTES 1).Dimensions are in millimeter.		
2).Inch equivalents are given for general information only.		