



NG8QN



16.0×12.5×14.4



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-SnO₂
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 | Electrical 10⁵
life | Mechanical 10⁷
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°C \pm 2°C 3 \pm 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~85°C	
Relative Humidity	85% (at 40°C)	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)		mm	inch
<p>Dimensions</p> <p>Mounting (Bottom views)</p> <p>Wiring diagram (Bottom views)</p>	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.