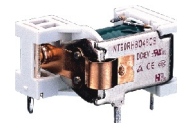


DB ELECTRO^{CO., LTD.}

Présente / Presents:

NINGBO HUAGUAN ELECTRONICS CO.,LTD.





JQ104E


$$40 \times 35 \times 36$$

Features

- Small size and light weight.
- Heavy contact load (100A).
- Contact arrangement Form A and C available.
- Suitable for automobile and lamp accessories application.
- PC board mounting and direct insert mounting available.

Ordering Information

<u>JQ104E</u>	<u>A</u>	<u>Z</u>	<u>100</u>	<u>b</u>	<u>DC12V</u>	<u>N</u>	<u>D</u>
1	2	3	4	5	6	7	8
1Part number: NVF7 2Contact arrangement: A:1A; 3Enclosure: S: Sealed type; Z: Dust cover; 4Contact current: 100A						5 Terminals: b: PCB type; a: plug in type 6 Coil rated voltage(V): DC:6,12,24 7 Contact material: N:AgNi; NIL: AgSnO ₂ 8 Coil transient suppression: D:with diode.; 2D:with two diodes.; R: with resistance.; DR: with diode and resistance; NIL: standard	

Contact Data

Contact Arrangement		1A (SPSTNO)	
Contact Material		AgSnO ₂ , AgNi	
Contact Rating (resistive)		100A/14VDC	
Max. Switching Power		400W	
Max. Switching Voltage		75VDC	Max. Switching Current:100A
Contact Resistance or Voltage drop		≤ 30mΩ	Item 3.12 of IEC255-7
Operation life	Electrical	10 ⁵	Item 3.30 of IEC255-7
	Mechanical	10 ⁷	Item 3.31 of IEC255-7

Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance $\Omega \pm 10\%$	Pick up voltage VDC(max) (55%of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
012-10000	12	14.5	80	6.6	1.2	10	≤ 7	≤ 2

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 ¹⁾	100M Ω min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength ¹⁾ Between contacts Between contact and coil	50Hz 1000V 50Hz 2000V	Item 6 of IEC255-5 Item 6 of IEC255-5
Shock resistance	147m/s ² 11ms	IEC68-2-27 Test Ea
Vibration resistance	10~40Hz double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	8N 4N (PC type)	IEC68-2-21 Test Ua2
Solderability	235 $^{\circ}$ C $\pm$ 2 $^{\circ}$ C 3 $\pm$ 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~105 $^{\circ}$ C	
Relative Humidity	85% (at 40 $^{\circ}$ C)	IEC68-2-3 Test Ca
Mass	46g	

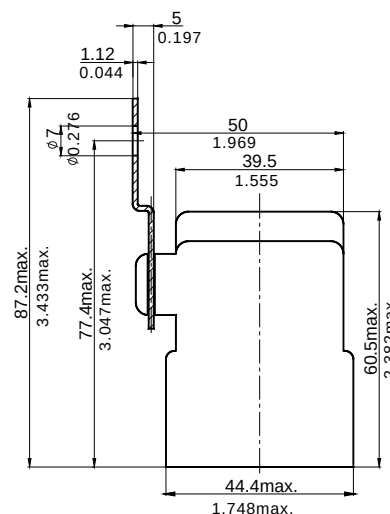
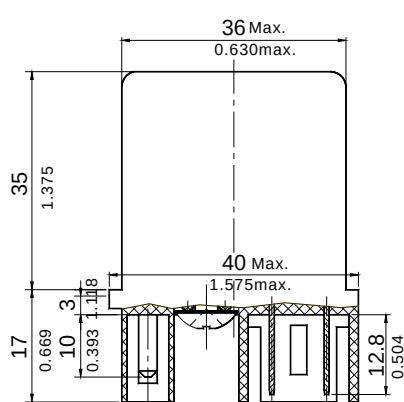
Note: 1). When testing, coil terminals should be connected, If coil transient suppression is installed in relay.

Qualification inspection:

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

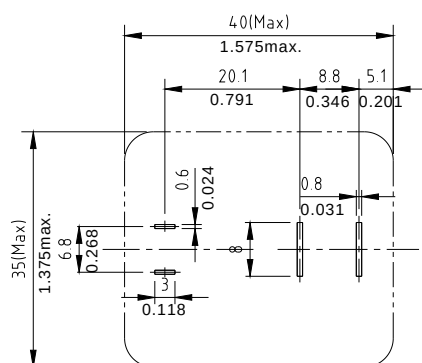
Dimensions

mm /inch

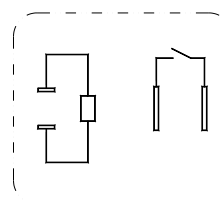


Dimensions

Cover



Mounting (Bottom view)



Wiring diagram (Bottom view)

NOTES 1). Dimensions are in millimeters.

2). Inch equivalents are given for general information only.