



20.3×15.3×22.5

N V F

Features

- Switching capacity up to 20A.
- PC board mounting and insert mounting available.
- Suitable for automation system and automobile auxiliary etc.

Ordering Information

<u>NVF</u>	<u>A</u>	<u>Z</u>	<u>20</u>	<u>DC12V</u>	<u>b</u>	<u>D</u>
1	2	3	4	5	6	7
1 Part number: NVF				5 Coil rated Voltage(V): DC:12,24		
2 Contact arrangement: A:1A ; B:1B				6 Terminals: b: PCB type; a: plug in type		
3 Enclosure: S: Sealed type; Z: Dust cover;				7 Coil transient suppression: D: with diode;		
4 Contact Current: 15:15A/14VDC; 20:20A/14VDC				R: with resistance; .		
				NIL: standard		

Contact Data

Contact Arrangement	1A (SPSTNO)、1B (SPSTNC)	
Contact Material	Ag·SnO ₂ , AgNi, Ag·CdO	
Contact Rating (resistive)	1A: 20A/14VDC; 1B: 15A/14VDC	
Max. Switching Power	280W	
Max. Switching Voltage	75VDC	
Contact Resistance or Voltage drop	≤20mV(at 10A)(B:40mV)	
Operation life	Electrical	5 × 10 ⁵ , 2 × 10 ⁵ (B)
	Mechanical	10 ⁷
		Max. Switching Current:30A
		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) (60%of rated voltage)	release voltage VDC(min) (11% of rated voltage)	Coil power consumption	Operate Time ms	Release Time ms
	Rated	Max.						
012-1160	12	18	124	7.2	1.3	1.16	≤10	≤7
024-1160	24	35	489	14.4	2.8			

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

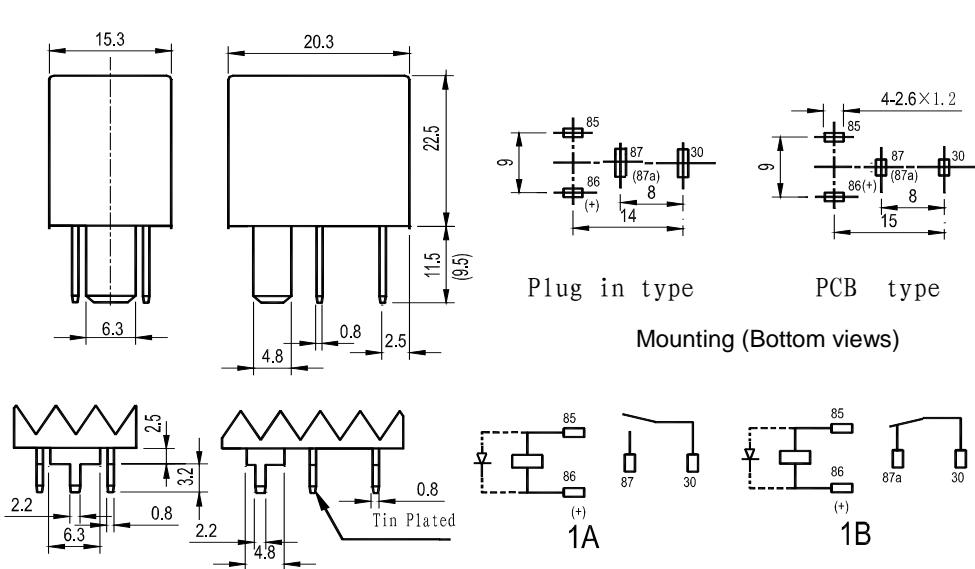
Insulation Resistance ¹⁾	100M Ω min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength ¹⁾		
Between contacts	50Hz 500V	Item 6 of IEC255-5
Between contact and coil	50Hz 1000V	Item 6 of IEC255-5
Shock resistance	100m/s ² 11ms	IEC68-2-27 Test Ea
Vibration resistance	10~40Hz double amplitude 1.27mm	IEC68-2-6 Test Fc
Terminals strength	100N	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	-40~85 $^{\circ}$ C	
Relative Humidity	85% (at 40 $^{\circ}$ C)	IEC68-2-3 Test Ca
Mass	14g	

Note: 1). ,When testing, coil terminals shall be connect , 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 (Unit: mm)



mm	inch
0.8	0.031
1.2	0.047
2.2	0.087
2.5	0.098
2.6	0.102
3.2	0.126
4.8	0.189
6.3	0.248
8	0.315
9	0.354
9.5	0.374
11.5	0.453
14	0.551
15	0.591
15.3	0.602
20.3	0.799
22.5	0.886

Note: Footprint as shown above is also available.

Dimensions

Wiring diagram (Bottom views)

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

Reference Data

