



20.3×15.3×22.5

Features

- Switching capacity upto 25A.
- PC board mounting and insert mounting available.
- Suitable for automation system and automobile auxiliary etc.

Ordering Information

NVF A Z 20 DC12V b D
 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 25:25A/14VDC	R: with resistance; . NIL: standard

Contact Data

Contact Arrangement	1A (SPSTNO) , 1B (SPSTNC)		
Contact Material	AgSnO ₂ , AgNi		
Contact Rating (resistive)	1A: 25A/14VDC,20A/14VDC; 1B: 20A/14VDC,15A/14VDC		
Max. Switching Power	420W		
Max. Switching Voltage	75VDC	Max. Switching Current:30A	
Contact Resistance or Voltage drop	≤20mV(at 10A)(B:40mV)	Item 4.12 of IEC 61810-7	
Operation life	Electrical	5×10 ⁵ , 2×10 ⁶ (B)	Item 4.30 of IEC 61810-7
	Mechanical	10 ⁷	Item 4.31 of IEC 61810-7

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 W	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.

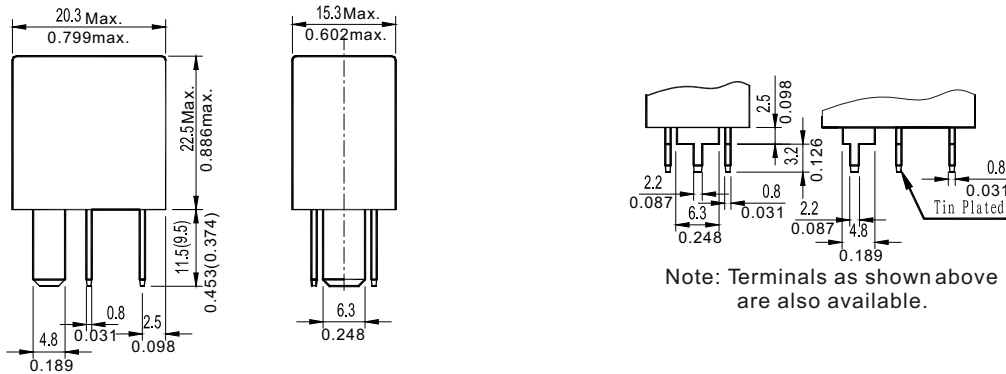
Operation condition

Insulation Resistance ¹⁾	100MΩ min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength ¹⁾ Between contacts Between contact and coil	50Hz 500V 50Hz 1000V	Item 6 of IEC 60255-5 Item 6 of IEC 60255-5
Shock resistance	100m/s ² 11ms	IEC 68-2-27 Test Ea
Vibration resistance	10Hz~40Hz double amplitude 1.27mm	IEC 68-2-6 Test Fc
Terminals strength	100N	IEC 68-2-21 Test Ua2
Solderability	235°C ±2°C 3s ±0.5s	IEC 68-2-20 Test Ta method 1
Ambient Temperature	-40°C~125°C	
Relative Humidity	85% (at 40°C)	IEC 68-2-3 Test Ca
Mass	14g	

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

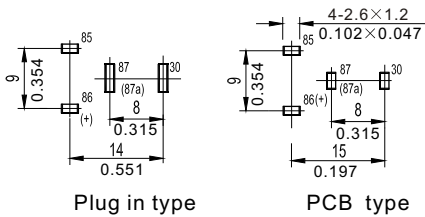
Dimensions

mm /inch

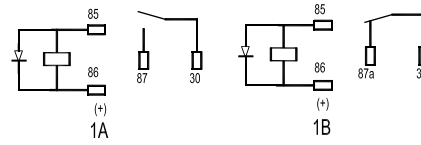


Note: Terminals as shown above are also available.

Dimensions



Mounting (Bottom view)



Wiring diagram (Bottom view)

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

Reference Data

