

# DB ELECTRO<sup>CO., LTD.</sup>

Présente / Presents:

NINGBO HUAGUAN ELECTRONICS CO., LTD.





23×15.5×26

# NVFM



Features	
• Switching capacity up to 25A.	
• PC board mounting and insert mounting available.	
• Suitable for automation system and automobile auxiliary etc.	

Ordering Information	
<b>NVFM</b>	<b>C Z 20 DC12V 1.5 b D</b>
1	2 3 4 5 6 7 8
1 Part number: NVFM	5 Coil rated voltage(V): DC:6,12,24,48
2 Contact arrangement: A:1A (1.2W); C:1C(1.5W)	6 Coil power consumption: 1.2:1.2W; 1.5:1.5W
3 Enclosure: S: Sealed type; Z: Dust cover;	7 Terminals: b: PCB type; a: plug in type
4 Contact current: 35:35A/14VDC; 30:30A/14VDC 25:25A/14VDC; 20:20A/14VDC	8 Coil transient suppression: D: with diode; R: with resistance; NIL: standard

Contact Data	
Contact Arrangement	1A (SPSTNO) 1C (SPDT(B-M))
Contact Material	AgSnO <sub>2</sub> , AgNi
Contact Rating (resistive)	1A: 35A,25A/14VDC; 1C: 20A/14VDC,NO:30A/14VDC,NC:25A/14VDC
Max. Switching Power	350W
Max. Switching Voltage	75VDC Max. Switching Current:35A
Contact Resistance or Voltage drop	<50mΩ Item 3.12 of IEC255-7
Operation life	Electrical 10 <sup>6</sup> Item 3.30 of IEC255-7
	Mechanical 10 <sup>7</sup> Item 3.31 of IEC255-7

Coil Parameter								
Dash numbers	Coil voltage VDC		Coil resistance Ω ± 10%	Pick up voltage VDC(max) (70%of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
006-1200	6	7.8	30	4.2	0.6	1.2	<10	<7
012-1200	12	15.6	120	8.4	1.2			
024-1200	24	31.2	480	16.8	2.4			
048-1200	48	62.4	1920	33.6	4.8			
006-1500	6	7.8	24	4.2	0.6	1.5	<10	<7
012-1500	12	15.6	96	8.4	1.2			
024-1500	24	31.2	384	16.8	2.4			
048-1500	48	62.4	1536	33.6	4.8			

**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

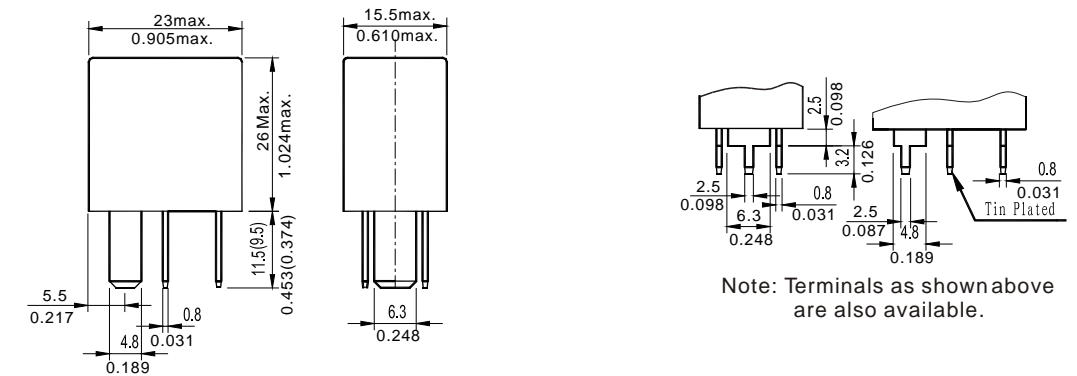
Insulation Resistance <sup>1)</sup>	100MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength <sup>1)</sup>	Between contacts 50Hz 500V Between contact and coil 50Hz 1000V	Item 6 of IEC255-5 Item 6 of IEC255-5
Shock resistance	100m/s <sup>2</sup> 11ms	11msIEC68-2-27 Test Ea
Vibration resistance	10~40Hz double amplitude 1.27mm	IEC68-2-6 Test Fc
Terminals strength	8N 4N (PC type)	IEC68-2-21 Test Ua1
Solderability	235℃ ±2℃ 3 ±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~125℃	
Relative Humidity	85% (at 40℃)	IEC68-2-3 Test Ca
Mass	18.5g	

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

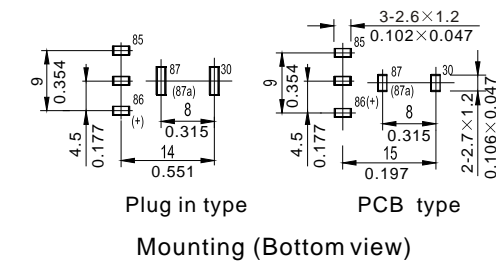
### Qualification inspection:

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

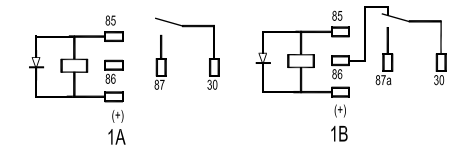
### Dimensions



Dimensions



Plug in type  
PCB type  
Mounting (Bottom view)



Wiring diagram (Bottom view)

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

### Reference Data

