



23×15.5×26

N V F M

Features

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

Ordering Information

NVFM C Z 20 DC12V 1.5 b D

1 2 3 4 5 6 7 8

1 Part number: NVFM

2 Contact arrangement: A:1A (1.2W); C:1C(1.5W)

3 Enclosure: S: Sealed type; Z: Dust cover;

4 Contact Current: 25:25A/14VDC; 20:20A/14VDC

5 Coil rated Voltage(V): DC:6,12,24,48

6 Coil power consumption: 1.2:1.2W; 1.5:1.5W

7 Terminals: b: PCB type; a: plug in type

8 Coil transient suppression: D: with diode;

R: with resistant; .
NIL: standard

Contact Data

Contact Arrangement

1A (SPSTNO)、1C (SPDT(B-M))

Contact Material

Ag-SnO₂ , AgNi, Ag-CdO

Contact Rating (resistive)

1A: 25A/14VDC; 1C: 20A/14VDC

Max. Switching Power

350W

Max. Switching Voltage

75VDC

Max. Switching Current:25A

Contact Resistance or Voltage drop

≤50mΩ

Item 3.12 of IEC255-7

Operation | Electrical

10⁵

Item 3.30 of IEC255-7

life | Mechanical

10⁷

Item 3.31 of IEC255-7

Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance Ω±10%	Pickup 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 ¹⁾	100MΩ 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	8N 4N (PC type)	IEC68-2-21 Test Ua1
Solderability	235℃ ± 2℃ 3 ± 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~85℃	
Relative Humidity	85% (at 40℃)	IEC68-2-3 Test Ca
Mass	18.5g	

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
	1.4	0.055
	2.1	0.083
	2.4	0.094
	2.5	0.098
	2.7	0.106
	3.2	0.126
	4.5	0.177
	4.8	0.189
	5.5	0.127
	6.3	0.248
	6.4	0.252
	8	0.315
	9	0.354
	9.5	0.374
	11.5	0.453
	14	0.551
	15	0.591
	15.5	0.610
	23	0.905
	26	1.024

Note: Footprint as shown above is also available.
Dimensions

Wiring diagram (Bottom views)

1A 1C

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

Reference Data

