



32.6x25.2x21

# N V F S

Patent No.99215698.X

## Features

- Small size and light weight. Heavy contact load (30A).
- Contact arrangement Form A.
- Suitable for automobile and lamp accessories application.
- Insert mounting footprint.
- With metal frame.

## Ordering Information

**NVFS A 15 DC12V**

1            2            3            4

1 Part number: NVFS

2 Contact arrangement: A:1A

3 Contact rating: 15:15A/14VDC; 30:30A/14VDC

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

## Contact Data

Contact Arrangement                    1A (SPSTNO)  
Contact Material                            Ag-SnO<sub>2</sub>  
Contact Rating (resistive)                15A, 30A/14VDC

Max. Switching Power                    420W  
Max. Switching Voltage                    75VDC  
Contact Resistance or Voltage drop    ≤50mΩ

Max. Switching Current:30A  
Item 3.12 of IEC255-7  
Item 3.30 of IEC255-7  
Item 3.31 of IEC255-7

Operation            |    Electrical            10<sup>5</sup>  
life                    |    Mechanical            10<sup>7</sup>

## Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance Ω±10%	Pickup voltage VDC(max) (65%of rated voltage )	release voltage VDC(min) (20% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
006-1800	6	7.8	20	3.9	1.2	1.8	≤7	≤5
012-1800	12	15.6	80	7.8	2.4			
024-1800	24	31.2	320	15.6	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**

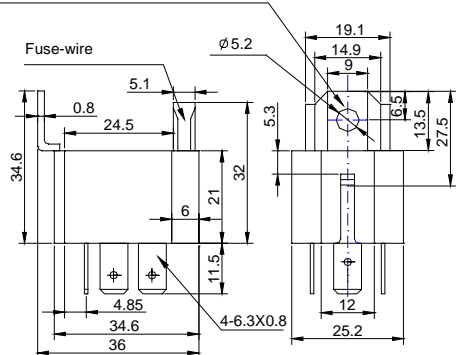
Insulation Resistance	100M $\Omega$ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength		
Between contacts	50Hz 500V	Item 6 of IEC255-5
Between contact and coil	50Hz 750V	Item 6 of IEC255-5
Shock resistance	147m/s <sup>2</sup> 11ms	IEC68-2-27 Test Ea
Vibration resistance	10~40Hz    double amplitude    1.27mm	IEC68-2-6 Test Fc
Terminals strength	8N	IEC68-2-21 Test Ua2
Solderability	235°C $\pm$ 2°C    3 $\pm$ 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~85°C	
Relative Humidity	85% (at 40°C)	IEC68-2-3 Test Ca
Mass	32g	

**Qualification inspection:**

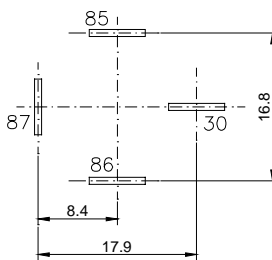
Perform the qualification test as specified in the table IV of IEC255-19-1 and minimum sample size 24.

**Dimensions (Unit: mm)**

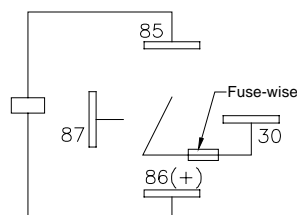
Shrouded type with bracket



Dimensions



Mounting (Bottom views)



Wiring diagram (Bottom views)

mm	inch
0.8	0.031
4.85	0.191
5.1	0.201
5.2	0.205
5.3	0.209
6	0.236
6.3	0.248
6.5	0.256
8.4	0.331
9	0.354
11.5	0.453
12	0.472
13.5	0.531
14.9	0.587
16.8	0.661
17.9	0.705
19.1	0.752
21	0.827
24.5	0.965
25.2	0.992
27.5	1.083
32	1.260
34.6	1.362
36	1.417

NOTES 1).Dimensions are in millimeter.

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