# NVF28




22.5×15×25.0

## Features

- 35A continous No rating at 85℃.
- 2.8mm quick connect terminals.
- Contact arrangement form A and C available.
- Suitable for automobile fuel pump, A/C compressor clutch, horn and lighting system etc.

## Ordering Information

| NVF28 | A | 20 | DC6V | 1.3 | R |
|---|---|---|---|---|---|
| 1 | 2 | 3 | 4 | 5 | 6 |

1 Part number: NVF28
2 Contact arrangement: A:1A; C:1C
3 Contact Current: NO:35A;NC:25A
4 Coil rated voltage(V): DC:6,12,24
5 Coil power consumption: 0.9:0.9W; 1.3:1.3W
6 Coil transient suppression: NIL: Standard; R:with resistance; D:whith diode

## Contact Data

| | | | |
|---|---|---|---|
| Contact Arrangement | | 1A（1H）（SPSTNO） 1C（1Z）（SPDT(B-M)） | |
| Contact material | | $AgSnO_2$ | |
| Contact Rating (resistive) | | NO：35A/14VDC；NC：25A/14VDC | |
| Max. Switching Power | | 560W | |
| Max. Switching voltage | | 75VDC | |
| Max. Switching Current | | NO:40A, NC:30A | |
| Max. Continous Current | | NO:35A, NC:25A | |
| Contact Voltage drop | | 100mΩ（1A 6VDC）<br>≤250mV(10A) example:50mV | Item 4.12 of IEC 61810-7 |
| Operation life | Electrical | $1\times10^5$ | Item 4.30 of IEC 61810-7 |
| | Mechanical | $1\times10^7$ | Item 4.31 of IEC 61810-7 |

## Coil Parameter

| Dash numbers | Coil voltage VDC | | Coil resistance Ω±10% | Pick up voltage VDC(max) (60%of rated voltage) | Release voltage VDC(min) (10% of rated voltage) | Coil power consumption W | Operate Time ms | Release Time ms |
|---|---|---|---|---|---|---|---|---|
| | Rated | Max. | | | | | | |
| 006-090 | 6 | 7.8 | 40 | 3.6 | 0.6 | 0.9 | ≤5 | ≤2 |
| 012-090 | 12 | 15.6 | 160 | 7.2 | 1.2 | | | |
| 024-090 | 24 | 31.2 | 640 | 14.4 | 2.4 | | | |
| 006-130 | 6 | 7.8 | 27 | 3.6 | 0.6 | 1.3 | | |
| 012-130 | 12 | 15.6 | 109 | 7.2 | 1.2 | | | |
| 024-130 | 24 | 31.2 | 436 | 14.4 | 2.4 | | | |

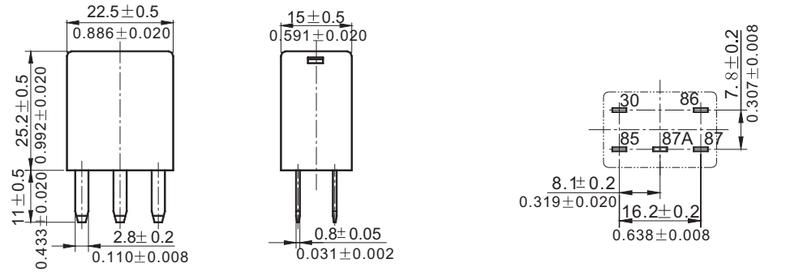
**CAUTION:** 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

## Operation condition

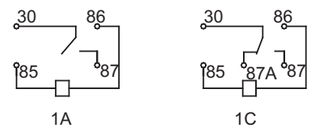
| | | |
|---|---|---|
| Insulation Resistance | 100MΩmin. (500VDC) | Item 7of IEC 61810-5 |
| Dielectric Strength<br>Between contacts<br>Between contact and coil | <br>50Hz 500V<br>50Hz 500V | <br>Item6 of IEC61810-5<br>Item6 of IEC61810-5 |
| Shock Resistance | 200m/s² 11ms | IEC68-2-27 test Ea |
| Vibration Resistance | 10~40Hz double amplitude 1.27mm<br>40~70Hz 49m/s²<br>70~100Hz double amplitude 0.5mm<br>100~500Hz 98m/s² | IEC68-2-6 test Fc |
| Terminals strength | 10N | IEC68-2-21 test Ua 1 |
| Ambient Temperature | -40~125℃ | |
| Relative Humidity | 85% ( 20℃) | IEC68-2-3 test Ca |
| Mass | 21g | |

## Dimensions

mm /inch




Dimensions　　Mounting (Bottom view)




Wiring diagram (Bottom view)

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