



15.6×15×16.4

# NVF8

## Features

- Low profile micro 280 terminal.
- 25A switching capability.
- Contact arrangement: 1A.
- Can be widely used in car relay box.

## Ordering Information

**NVF8 - A Z R**  
1 2 3 4

- 1 Part number: NVF8  
2 Contact arrangement: A:1A  
3 Enclosure: Z:Flux proof  
4 Coil transient suppression: R:with resistor

## Contact Data

|                        |                    |                            |
|------------------------|--------------------|----------------------------|
| Contact Arrangement    | 1A(SPSTNO)         |                            |
| Contact Material       | AgSnO <sub>2</sub> |                            |
| Contact Rating         | 20A/14VDC          |                            |
| Max. Switching Power   | 280W               |                            |
| Max. Switching Voltage | 16VDC              | Max. Switching Current:25A |
| Voltage Drop(Initial)  | Typ.: 50mV(at 10A) | Item 4.12 of IEC 61810-7   |
| Electrical Endurance   | 1×10 <sup>5</sup>  | Item 4.30 of IEC 61810-7   |
| Mechanical Endurance   | 1×10 <sup>6</sup>  | Item 4.31 of IEC 61810-7   |

## Coil Parameter

| Coil voltage<br>VDC |      | Coil resistance<br>Ω± 10% | Pick-up voltage<br>VDC(max)<br>(65%of rated<br>voltage ) | Drop-out voltage<br>VDC(min) | Coil power<br>W  | Operate<br>time<br>ms | Release<br>time<br>ms |
|---------------------|------|---------------------------|--|------------------------------|------------------|-----------------------|-----------------------|
| Rated               | Max. | With<br>resistance        |  |                              | With<br>resistor |                       |                       |
| 12                  | 15.6 | 132                       | 7.8  | 1.0                          | Approx.<br>1.09  | ≤10                   | ≤10                   |

- Notes:** 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
2.Pick-up and drop-out voltage are for test purposes only and are not to be used as design criteria.

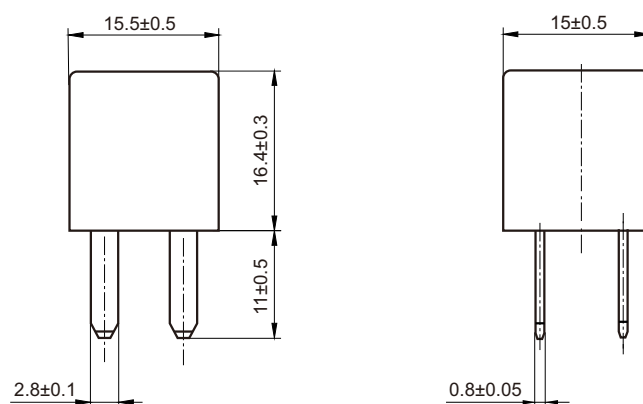
## Characteristics

|  |  |                          |
|--|--|--------------------------|
| Insulation Resistance <sup>1)</sup>  | 10MΩ min (at 500VDC)   | Item 4.11 of IEC 61810-7 |
| Dielectric Strength <sup>1)</sup><br>Between Open Contacts<br>Between Contact and Coil | 500VAC 1min<br>500VAC 1min   | Item 4.9 of IEC 61810-7  |
| Shock Resistance   | 98m/s <sup>2</sup> 11ms  | Item 4.26 of IEC 61810-7 |
| Vibration Resistance   | 10-55Hz Double amplitude 1.5mm   | Item 4.28 of IEC 61810-7 |
| Terminals Strength   | Terminal retention(pull & push): ≥100N<br>Terminal resistance to bending(front & side): ≥10N | Item 4.24 of IEC 61810-7 |
| Ambient Temperature  | -40℃~100℃  |                          |
| Relative Humidity  | 5% to 85%  | Item 4.16 of IEC 6110-7  |
| Weight (Approx.)   | 10g  | Item 4.7 of IEC 61810-7  |

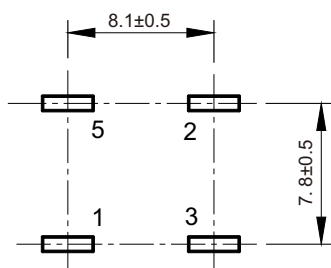
**Notes:** 1). When testing, coil terminals should be connected, If coil transient suppression is installed in relay .

## Dimensions

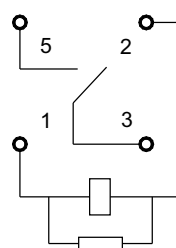
mm



Dimensions



Mounting (Bottom view)



Wiring diagram (Bottom view)

**Remark:** In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm ;  
outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.