

# NVF28



22.5×15×25.4

### Features

- 35A continuous NO rating (85°C).
- 280 quick connect terminals.
- Contact arrangement form A and from C available.
- Suitable for automobile fuel pump, A/C compressor clutch, horn and lighting system etc.

### Ordering Information

**NVF28**   **C**   **S**   **35**   **1.3**   **R**   **DC12V**  
 1        2        3        4        5        6        7

1 Part number: NVF28  
 2 Contact arrangement: A:1A; C:1C  
 3 Enclosure: S:Wash tight; Z: Flux proof  
 4 Contact rating: 35:35A  
 5 Coil power: 0.9:0.9W; 1.3:1.3W

6 Coil transient suppression: NIL:Standard;  
 R:With resistor  
 D:With diode  
 7 Coil rated voltage(V): DC:6,12,24

### Contact Data

Contact Arrangement	1A(SPSTNO) 1C(SPDT(B-M))	
Contact Material	AgSnO <sub>2</sub>	
Contact Rating	NO:35A/14VDC;NC:25A/14VDC	
Max. Switching Power	490W	
Max. Switching Voltage	30VDC	
Max. Switching Current	40A	
Max. Continuous Current	NO:35A, NC:25A	
Voltage Drop(Initial)	Typ.: 30mV(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>7</sup>	Item 4.31 of IEC 61810-7

### Coil Parameter

Coil voltage VDC		Coil resistance Ω±10%	Pick-up voltage VDC(max) (60%of rated voltage)	Drop-out voltage VDC(min) (10% of rated voltage)	Coil power W	Operate time ms	Release time ms
Rated	Max.						
6	7.8	40	3.6	0.6	0.9	≤8	≤6
12	15.6	160	7.2	1.2			
24	31.2	640	14.4	2.4			
6	7.8	27	3.6	0.6	1.3	≤8	≤6
12	15.6	111	7.2	1.2			
24	31.2	443	14.4	2.4			

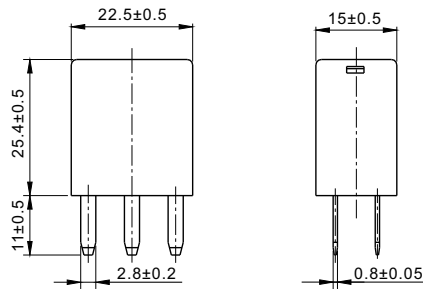
**Notes:** 1. The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
 2. Pick-up and drop-out voltage are for test purposes only and are not to be used as design criteria.

## Characteristics

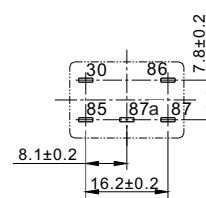
Insulation Resistance	100MΩ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Open Contacts Between Contact and Coil	500VAC 1min 500VAC 1min	Item 4.9 of IEC 61810-7
Shock Resistance	196m/s <sup>2</sup> 11ms	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~40Hz Double amplitude 1.27mm 40Hz~70Hz 49m/s <sup>2</sup> 70Hz~100Hz Double amplitude 0.5mm 100Hz~500Hz 98m/s <sup>2</sup>	Item 4.28 of IEC 61810-7
Terminals Strength	Terminal retention(pull & push): ≥100N Terminal resistance to bending(front & side): ≥10N	Item 4.24 of IEC 61810-7
Ambient Temperature	-40℃~125℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Weight (Approx.)	21g	Item 4.7 of IEC 61810-7

## Dimensions

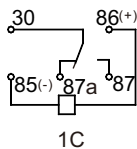
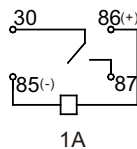
mm



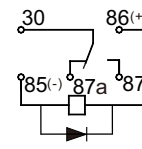
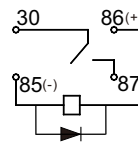
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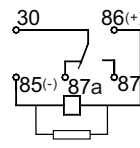
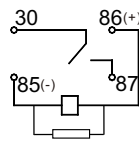
Mounting (Bottom view)



Standard



With diode



With resistor

Wiring diagram (Bottom view)

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