



22.5×15×25.0

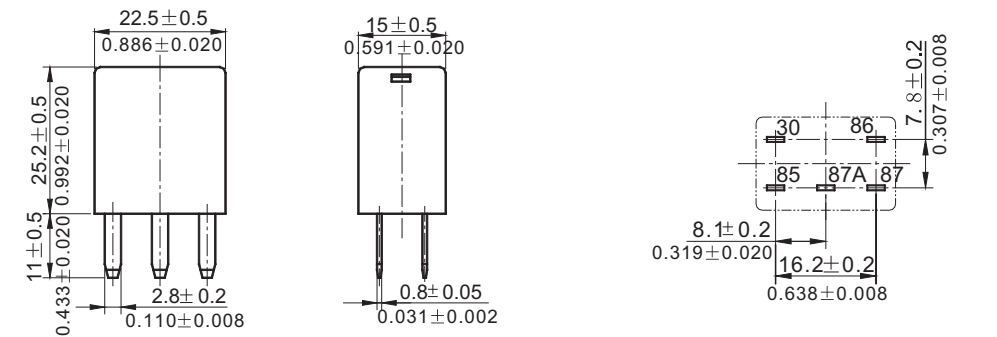
# NVF28

## Operation condition

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

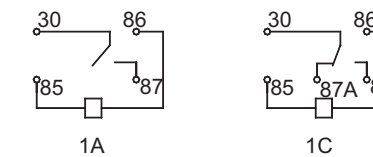
## Dimensions

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.

## Features

- 35A continuous rating at 85°C.
- 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	4 Coil rated voltage(V): DC:6,12,24
2 Contact arrangement: A:1A; C:1C	5 Coil power consumption: 0.9:0.9W; 1.3:1.3W
3 Contact Current: NO:35A;NC:25A	6 Coil transient suppression: NIL: Standard; R:with resistance; D:with diode

## Contact Data

Contact Arrangement	1A (1H) (SPSTNO) 1C (1Z) (SPDT(B-M))
Contact material	AgSnO <sub>2</sub>
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. Continuous Current	NO:35A, NC:25A
Contact Voltage drop	100m $\Omega$ (1A 6VDC) $\leq$ 250mV(10A) example:50mV Item 4.12 of IEC 61810-7
Operation life	Electrical 1×10 <sup>5</sup> Item 4.30 of IEC 61810-7
	Mechanical 1×10 <sup>7</sup> Item 4.31 of IEC 61810-7

## Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance $\Omega \pm 10\%$	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	$\leq 5$	$\leq 2$
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	$\leq 5$	$\leq 2$
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.