



27.3×23×30.2(+20.3)

# NVF9

### Operation condition

Insulation Resistance	100MΩ min. (500VDC)	Item 7 of IEC 61810-5
Dielectric Strength	Between contacts	50Hz 500V
	Between contact and coil	50Hz 750V
Item 6 of IEC 61810-5		Item 6 of IEC 61810-5
Shock resistance	147m/s <sup>2</sup> 11ms	IEC68-2-27 Test Ea
Vibration resistance	10~60Hz double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	8N	IEC68-2-21 Test Ua2
Solderability	235℃ ±2℃ 10±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~85℃	
Relative Humidity	85% (40℃)	IEC68-2-3 Test Ca
Mass	40g	

### 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	
<ul style="list-style-type: none"> <li>• Heavy contact load (30A).</li> <li>• I insert mounting available.</li> <li>• Suitable for automation system and automobile auxiliary etc.</li> </ul>	

Ordering Information	
<b>NVF9</b> <u>A</u> <u>Z</u> <u>30</u> <u>a</u> <u>DC12V</u> 1 2 3 4 5 6	
1 Part number: NVF9	4 Contact current: 15:15A/24VDC; 30:30A/14VDC
2 Contact arrangement: A:1A;	5 Terminals: a: plug in type
3 Enclosure: Z: Dust cover;	6 Coil rated voltage(V): DC:6,12,24

Contact Data		
Contact arrangement	1A (1H) (SPSTNO)	
Contact Material	AgSnO <sub>2</sub> , AgNi	
Contact Rating (resistive)	30A/14VDC, 15A/24VDC	
Max. Switching Power	420W	
Contact Resistance or Voltage drop	75VDC Max. switching current:30A	
	≤100mV(at 30A) Item 4.12 of IEC 61810-7	
Operation life	Electrical	10 <sup>5</sup> Item 4.30 of IEC 61810-7
	Mechanical	5×10 <sup>6</sup> Item 4.31 of IEC 61810-7

Coil Parameter								
Dash numbers	Coil voltage VDC		Coil resistance Ω ±10%	Pickup voltage VDC(max) (70% of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
006-1440	06	7.8	25	4.2	0.6	1.44	≤7	≤5
012-1440	12	15.6	100	8.4	1.2			
024-1440	24	31.2	400	16.8	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.