

## FORWARD RELAYS



34.5×32.5×34

# NVF4-6

### Features

- Small size.
- Contact load capacity up to 150A.
- Suitable for automobile.
- PC board mounting and direct insert mounting available.

### Ordering Information

**NVF4-6a** **C** **Z** **100** **a** **S** **D** **DC12V**  
 1 2 3 4 5 6 7 8

1 Part number: NVF4-6,  
 NVF4-6a(Metal Bracket)  
 2 Contact arrangement: A:1A; C:1C  
 3 Enclosure: Z: Flux proof  
 4 Contact Current: 50A,100A,150A  
 5 Terminals: a: plug in type; b: PCB type

6 Contact Material: S: AgSnO<sub>2</sub>  
 7 Coil transient suppression: D: with diode  
 R: with resistance  
 NIL: standard  
 8 Coil rated voltage(V): DC:12,24

### Contact Data

Contact Arrangement	1A(SPSTNO) 1C(SPDT(B-M))		
Contact Material	AgSnO <sub>2</sub>		
Contact Rating (Resistive)	1A		1C
	50A/24VDC 100A,150A/12VDC	NO: 100A,150A/12VDC;50A/24VDC NC: 80A,100A/12VDC;50A/24VDC	
Max. Switching Power	1800W		
Max. Switching Voltage	75VDC		Max. Switching Current:150A
Voltage Drop(Initial)	Typ. 50mV(at 10A)		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 Ω ±10%	Pick-up voltage VDC(max) (65% of rated voltage)	Drop-out voltage VDC(min) (10% of rated voltage)	Coil power W	Operate time ms	Release time ms
	Rated	Max.						
012-2900	12	15.6	50	7.8	1.2	2.9	≤10	≤5
024-2900	24	31.2	195	15.6	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.

## Characteristics

Insulation Resistance <sup>1)</sup>	100M $\Omega$ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength <sup>1)</sup>		
Between Contacts	50Hz 750V	Item 4.9 of IEC 61810-7
Between Contact and Coil	50Hz 1000V	Item 4.9 of IEC 61810-7
Shock Resistance	147m/s <sup>2</sup> 11ms	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~40Hz Double amplitude 1.5mm	Item 4.28 of IEC 61810-7
Terminals Strength	10N	Item 4.24 of IEC 61810-7
Ambient Temperature	-40°C~125°C	Item 4.11 of IEC 61810-7
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Mass	65g	Item 4.7 of IEC 61810-7

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

