

NVF4-6

 $35 \times 33 \times 34.5$

Features

- Small size.
- Contact load capacity up to 200A.
- Suitable for automobile.
- PC board mounting and direct insert mounting available.

Ordering Information

$\frac{NVF4-6a}{1} \stackrel{C}{=} \frac{Z}{3} \stackrel{100}{=} \frac{a}{5} \stackrel{S}{=} \frac{D}{5} \stackrel{DC12V}{=} \frac{V}{5}$

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,200A

5 Terminals: a: plug in type; b: PCB type

6 Contact Material: S: AgSnO₂

7 Coil transient suppression: D: with diode

R: with resistance

NIL: standard

8 Coil rated voltage(V): DC:12,24

Contact Data

O I I I I I I I I I I I I I I I I I I I						
Contact Arrangement		1A(SPSTNO) 1C(SPDT(B-M))				
Contact Material		AgSnO ₂				
Contact Rating (Resistive)		1A		1C		
		50A/24VDC 100A,150A,200A/12VDC		NO: 100A,150A/12VDC;50A/24VDC NC: 80A,100A/12VDC;50A/24VDC		
Max. Switching Power		2400W				
Max. Switching Voltage		75VDC	Max	Max. Switching Current: 200A		
Voltage Drop(Initial)		Typ: 50mV (at 10A)	Iten	Item 4.12 of IEC 61810-7		
Operation	Electrical	1×10 ⁵	Item 4.30 of IEC 61810-7			
Life	Mechanical	1×10 ⁷	Item 4.31 of IEC 61810-7			

Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance $\Omega \pm 10\%$		With Suppression	Pick-up voltage	Drop-out voltage VDC(min)	Coil		Release
	Rated	Max.	Without Rsistive	With Rsistive		VDC(max) (65%of rated voltage)		power W	time ms	time ms
012-2900	12	15.6	50	47	680	7.8	1.2	2.9	<10 <	≤5
024-2900	24	31.2	195	182	2700	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 ¹⁾	100M Ω min (at 500VDC)	Item 4.11 of IEC 61810-7		
Dielectric Strength ¹⁾ Between Contacts Between Contact and Coil	50Hz 750V 50Hz 1000V	Item 4.9 of IEC 61810-7 Item 4.9 of IEC 61810-7		
Shock Resistance	147m/s ² 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	Terminal retention(pull & push): ≥100N Terminal resistance to bending(front & side):≥10N	Item 4.24 of IEC 61810-7		
Ambient Temperature	-40℃~125℃	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.

