



NVF4-7 26.5×26.5×25.2
 NVF4-8 26.5×26.5×25.2(+16)

NVF4-7 & NVF4-8

Features	
• Small size and light weight.	
• Heavy contact load (70A).	
• Contact arrangement Form A and C available.	
• Suitable for automobile and lamp accessories application.	
• PC board mounting and direct insert mounting available.	

Ordering Information	
NVF4-7 A Z 70 b DC12V 1.6 C D	
1 2 3 4 5 6 7 8 9	
1 Part number: NVF4-7, NVF4-8 (Insulation Bracket), NVF4-8a (Shrouded Type With Metal Bracket, Contact Arrangement: 1A,)	5 Terminals: b: PCB type; a: plug in type
2 Contact arrangement: A: 1A;	6 Coil rated voltage (V): DC: 6, 12, 24
3 Enclosure: S: Sealed type; Z: Dust cover;	7 Coil power consumption: 1.6: 1.6W; 1.9: 1.9W
4 Contact current: 50: 50A; 70: 70A	8 Contact material: N: AgNi; NIL: AgSnO ₂
	9 Coil transient suppression: D: with diode.; 2D: with two diodes.; R: with resistance.; DR: with diode and resistance; NIL: standard

Contact Data	
Contact Arrangement	1A (1H) (SPSTNO)
Contact Material	AgSnO ₂ , AgNi
Contact Rating (resistive)	70A/14VDC, 50A/14V (85°C下)
Max. Switching Power	980W
Max. Switching Voltage	75VDC
Max. Switching Current	80A
Contact Resistance or Voltage drop	< 200mV(70A) Item 4.12 of IEC 61810-7
Operation life	Electrical 10 ⁵ Item 4.30 of IEC 61810-7
	Mechanical 10 ⁷ Item 4.31 of IEC 61810-7

Coil Parameter								
Dash numbers	Coil voltage VDC		Coil resistance Ω ±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.						
006-1900	6	7.8	19	3.6	0.6			
012-1900	12	15.6	76	7.2	1.2	1.9	≤7	≤2
024-1900	24	31.2	303	14.4	2.4			
012-1600	12	15.6	90	7.2	1.6			
024-1600	24	31.2	360	14.4	3.2	1.6	≤7	≤2

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.

Operation condition		
Insulation Resistance ¹⁾	100MΩmin (at 500VDC)	Item 7 of IEC 61810-5
Dielectric Strength ¹⁾		
Between contacts	50Hz 500V	Item 6 of IEC 61810-5
Between contact and coil	50Hz 500V	Item 6 of IEC 61810-5
Shock resistance	30m/s ² 6ms	IEC68-2-27 Test Ea
Vibration resistance	20~500Hz double amplitude 1.8mm	IEC68-2-6 Test Fc
Terminals strength	10N 100N	IEC68-2-21 Test Ua2
Solderability	235°C ± 2°C 3 ± 0.5s	IEC68-2-20 Test Ta test 1
Ambient Temperature	-40~105°C	
Relative Humidity	85% (40°C)	IEC68-2-3 Test Ca
Mass	36g	

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

Dimensions

mm / inch

Dimensions

Plug in type
Mounting (Bottom view)

PCB type

Wiring diagram (Bottom view)

PCB type
Note: Terminals as shown above are also available.

NOTES 1). Dimensions are in millimeters.
 2). Inch equivalents are given for general information only.