



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

NVF4-7 & NVF4-8

Features	
<ul style="list-style-type: none"> Small size and light weight. Heavy contact load (70A). 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 N D	
1 Part number: NVF4-7, NVF4-8 (Insulation Bracket)	7 Coil power consumption: 1.6:1.6W, 1.9:1.9W,
2 Contact arrangement: A:1A;	8 Contact material: N:AgNi; NIL: AgSnO ₂
3 Enclosure: S: Sealed type; Z: Dust cover;	9 Coil transient suppression: D: with diode;
4 Contact current: 50:50A; 70:70A	2D: with two diodes;
5 Terminals: b: PCB type; a: plug in type	R: with resistance;
6 Coil rated voltage(V): DC:6,12,24	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 (at 85°C)
Max. Switching Power	980W
Max. Switching Voltage	75VDC Max. Switching Current: 80A
Contact Resistance or Voltage drop	< 30mΩ < 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	1.9	≤7	≤2
012-1900	12	15.6	76	7.2	1.2			
024-1900	24	31.2	303	14.4	2.4			
012-1600	12	15.6	90	7.2	1.6	1.6	≤7	≤2
024-1600	24	31.2	360	14.4	3.2			

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 60255-5
Dielectric Strength ¹⁾		
Between contacts	50Hz 500V	Item 6 of IEC 60255-5
Between contact and coil	50Hz 500V	Item 6 of IEC 60255-5
Shock resistance	30m/s ² 6ms	IEC 68-2-27 Test Ea
Vibration resistance	20Hz~500Hz double amplitude 1.8mm	IEC 68-2-6 Test Fc
Terminals strength	10N 100N	IEC 68-2-21 Test Ua2
Solderability	235°C ± 2°C 3s ± 0.5s	IEC 68-2-20 Test Ta test 1
Ambient Temperature	-40°C~105°C	
Relative Humidity	85% (40°C)	IEC 68-2-3 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

mm / inch

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

Plug in type **PCB type**
 Mounting (Bottom view)

Wiring diagram (Bottom view)

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