

NVF4-7 & NVF4-8



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

Features

- 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 2 3 4 5 6 7 8 9

1 Part number: NVF4-7, NVF4-8 (Insulation Bracket)
 2 Contact arrangement: A: 1A;
 3 Enclosure: S: Sealed type; Z: Dust cover;
 4 Contact current: 50:50A; 70:70A
 5 Terminals: b: PCB type; a: plug in type
 6 Coil rated voltage(V): DC: 6, 12, 24

7 Coil power consumption: 1.6:1.6W, 1.9:1.9W, 2.3:2.3W;
 8 Contact material: N: AgNi; NIL: AgSnO₂
 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 (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		
024-1600	24	31.2	360	14.4	3.2			
006-2300	6	7.8	16	3.6	0.6	2.3		
012-2300	12	15.6	63	7.2	1.2			
024-2300	24	31.2	251	14.4	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.

Operation condition

Insulation Resistance ¹⁾	100MΩmin (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength ¹⁾ Between contacts Between contact and coil	50Hz 500V 50Hz 500V	Item 6 of IEC 60255-5 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

