NVF4-3&NVF4-4



NVF4-3
29×29×26.5

NVF4-4
29×29×26.5(+16)

Features

- Small size.
- Contact load capacity up to 80A.
- Suitable for automobile.
- PC board mounting and direct insert mounting available.

Ordering Information

NVF4-3	C	Z	30	b	DC12V	C	D
1	2	3	4	5	6	7	8

1 Part number：NVF4-3,NVF4-4(Insulation Bracket),
NVF4-4a(Metal Bracket)
2 Contact arrangement：A:1A；B:1B；C:1C；U:1U
3 Enclosure：S: Sealed type；Z: Dust cover;
4 Contact current：A Form:50A,80A;
B Form:40A,70A;
C Form:40,50A,70A,80A;
U Form:2×25A

5 Terminals：b: PCB type；a: plug in type
6 Coil rated voltage(V)：DC:6,12,24
7 Contact material：C:AgCdO；N:AgNi；NIL: $AgSnO_2$
8 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（SPSTNO）, 1B（SPSTNC）,1C（SPDT(B-M)）,1U（SPSTNODM）			
Contact Material		$AgSnO_2$, AgNi, AgCdO			
Contact Rating (resistive)		1A	1 B	1C	1U
		50A,80A/14VDC	40A,70A/14VDC	NO:50A,80A/14VDC NC:40A,70A/14VDC	2×25A/14VDC
Max. Switching Power		980W			
Max. Switching Voltage		75VDC		Max. Switching Current:80A	
Contact Resistance or Voltage drop		⩽30mΩ		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%	Pickup voltage VDC(max) (65%of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
006-1800	6	7.8	20	3.9	0.6	1.8	⩽7	⩽5
012-1800	12	15.6	80	7.8	1.2			
024-1800	24	31.2	320	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.

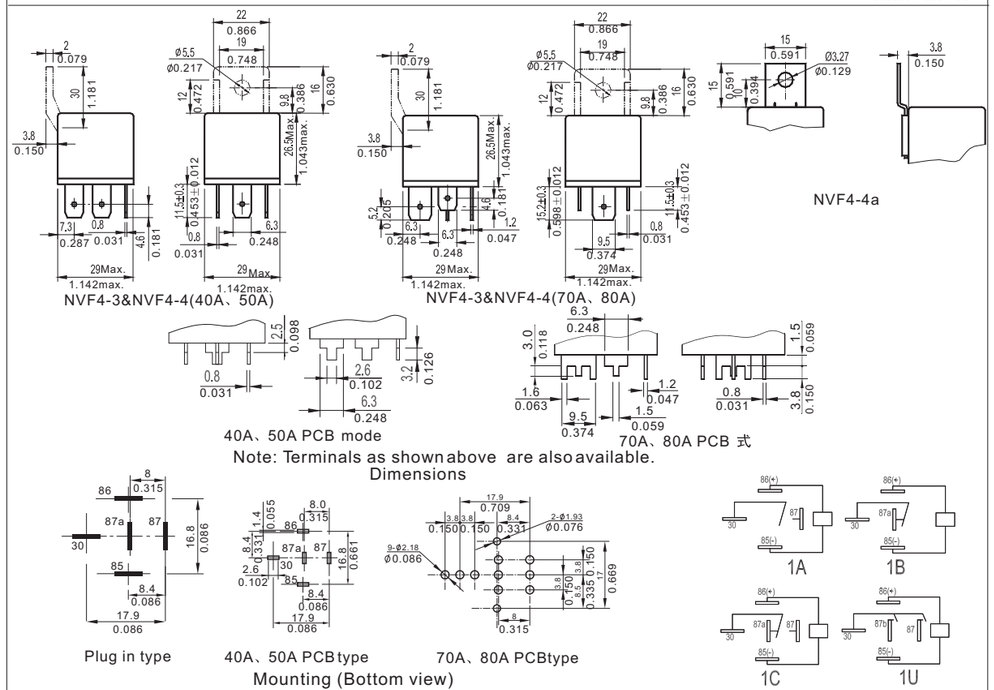
Operation condition

Insulation Resistance[1)]	100MΩ min (at 500VDC)	Item 7 of IEC 61810-5
Dielectric Strength [1)] Between contacts Between contact and coil	 50Hz 500V 50Hz 500V	 Item 6 of IEC 61810-5 Item 6 of IEC 61810-5
Shock resistance	147m/s² 11ms	IEC68-2-27 Test Ea
Vibration resistance	10~40Hz double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	8N 4N(PC type)	IEC68-2-21 Test Ua 2
Solderability	235℃ ±2℃ 3±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~125℃	
Relative Humidity	85% (at 40℃)	IEC68-2-3 Test Ca
Mass	46g(NVF4-3);48g(NVF4-4)	

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

Dimensions

mm /inch



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

Reference Data

