NVF4-3&NVF4-4

NVF4-3
29×29×26.5

NVF4-4
29×29×26.5(+16)

Features

- Miniature.
- Contact load capacity up to 80A.
- Suitable for automobile.
- Terminal types as inserting.

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:60A,80A
B Form:40A,70A
C Form :60A,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 meterial: C:AgCdO N:AgNi NIL: Ag·SnO_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: Ag·SnO_2 , AgNi

Contact Rating (resistive)	1A	1B	1C	1U
	60A,80A/14VDC	40A,70A/14VDC	NO:60A,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 dro		≤30mΩ	Item 3.12 of IEC255-7
Operation life	Electrical	10^5	Item 3.30 of IEC255-7
	Mechanical	10^7	Item 3.31 of IEC255-7

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

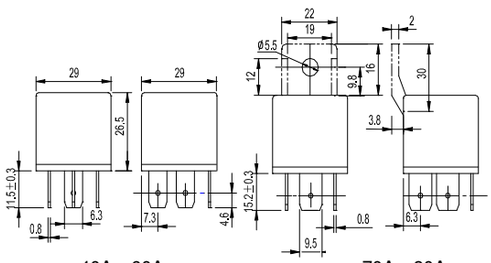
Insulation Resistance[1)]	100MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength [1)]		
Between contacts	50Hz 500V	Item 6 of IEC255-5
Between contact and coil	50Hz 500V	Item 6 of IEC255-5
Shock resistance	147m/s^2 11ms	IEC68-2-27 Test Ea
Vibration resistance	10~40Hz double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	8N 4N(PC type)	IEC68-2-20 Test Ta method 1
Solderability	235℃±2℃ 3±0.5s	
Ambient Temperature	-40~85℃	IEC68-2-3 Test Ca
Relative Humidity	85% (at 40℃)	
Mass	46g(NVF4-3);48g(NVF4-4)	

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

Qualification inspection:

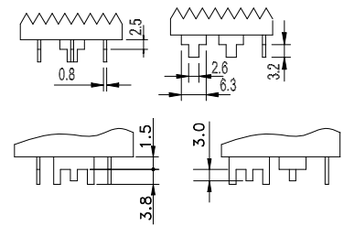
Perform the qualification test as specified in the table Ⅳ of IEC255-19-1 and minimum sample size 24.

Dimensions (Unit: mm)

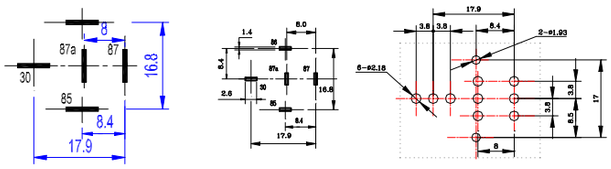


NVF4-3 type NVF4-4 type

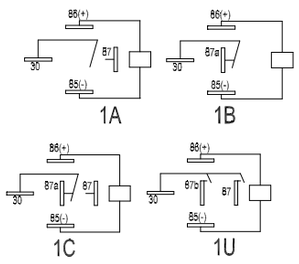
Dimensions



Note: Footprint as shown above is also available.



Mounting (Bottom views)



Wiring diagram (Bottom views)

mm	inch
0.3	0.012
0.8	0.031
1.4	0.055
1.5	0.059
1.93	0.076
2.16	0.085
2.5	0.098
2.6	0.102
3.0	0.118
3.2	0.126
3.8	0.150
4.6	0.181
5.5	0.217
6.3	0.248
7.3	0.287
8	0.315
8.4	0.331
9.5	0.374
9.8	0.386
11.5	0.453
12	0.472
15.2	0.598
16.8	0.661
17	0.669
17.9	0.705
19	0.748
22	0.866
26.5	1.043
29	1.142

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

Reference Data