



NVF4-1

26.5×26.5×24.5



NVF4-2

26.5×26.5×24.5(+16)

NVF4-1 & NVF4-2

Features

- Small size and light weight.
- Heavy contact load (40A).
- Contact arrangement Form A and C available.
- Suitable for automobile and lamp accessories application.
- PC board mounting and direct insert mounting available.

Contact Data

Contact Arrangement 1A, 1B, 1C, 1U
Contact Material Ag·SnO₂, AgNi

Contact Rating (resistive)	1A	1B	1C	1U
	40A, 2×20A/14VDC	30A/14VDC	NO:40A/14VDC NC:30A,40A /14VDC	2×20A/14VDC

Max. Switching Power	630W	
Max. Switching Voltage	75VDC	Max. Switching Current:40A
Contact Resistance or Voltage drop	30mΩ Max.	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

Coil voltage VDC		Coil resistance Ω ±10%		Pickup voltage VDC(max) (of rated voltage)		Release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms Max.	Release Time ms Max.
Rated	Max.	1.6W	1.9W	65%	70%				
6	7.8	22.5	19	3.9	4.2	0.6			
12	15.6	90	75.8	7.8	8.4	1.2	1.6/1.9	7	
24	31.2	360	303.2	15.6	16.8	2.4		5	

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	Item 6 of IEC255-5
	Between contact and coil	Item 6 of IEC255-5
Shock resistance	147m/s ² 11ms	IEC68-2-27 Test Ea method 1
Vibration resistance	10~40Hz double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	8N 4N(PC type)	IEC68-2-21 Test Ua2
Solderability	230 sC+ 2 sC 10+ 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~85 sC	
Relative Humidity	85% (at 40 sC)	IEC68-2-3Test Ca
Mass	31g(NVF4-1);36g(NVF4-2)	

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.

Ordering Information	
NVF4-1 C-Z30b DC12V1.6 D	Coil transient suppression :D:with diod.;2D:with two diod.; R:with resis.;DR:with diod. and resis; NIL:standard
	Coil power consumption:1.6:1.6W, 1.9:1.9W
	Coil rated DC Voltage:6V, 12V, 24V
	b:PCB type PC, a:plug in type
	Contact Current A From:2×20A,40A, B From:30A, C From:30A, 40A;Ufrom:2×20A
	Z:Dust Cover, S:Sealed type
	Contact Arrangement :A:1A, B:1B, U:1U
	Part number:NVF4-1,NVF4-2(Insulation Bracket)
	NVF4-2a(Shrouded Type With Metal Bracke , Contact Arrangement:1A, 1B, 1C)
	NVF4-2b(Shrouded Type With Metal Bracke , Contact Arrangement:1U)

Dimensions (Unit: mm)

NVF4-1 type **NVF4-2 type**

Dimensions

PCB type

Mounting (Bottom views)

Plug in type

Mounting (Bottom views)

mm	inch
0.8	0.031
1.4	0.055
2.5	0.098
2.6	0.102
3.2	0.126
4.6	0.181
5.5	0.217
5.8	0.228
6	0.236
6.3	0.248
8.4	0.331
9	0.354
11.5	0.453
15.2	0.598
16	0.630
17.9	0.705
18	0.709
24.5	0.964
26.5	1.043

Note: Footprint as shown upper is also available.

Wiring diagram (Bottom views)

1A (2×20A) 1U

