



NVF4-3

29×29×26.5

NVF4-4

29×29×26.5(+16)

NVF4-3 & NVF4-4

Features

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

Contact Data

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

Contact Rating (resistive)	1A	1B	1C	1U
	50A,80A/14VDC	40A,60A/14VDC	NO:50A,80A/14VDC NC:40A,60A /14VDC	2×25A/14VDC

Max. Switching Power 980W
 Max. Switching Voltage 75VDC
 Contact Resistance or Voltage drop ≤30mΩ
 Operation | Electrical 10⁵
 life | Mechanical 10⁷

Max. Switching Current:80A
 Item 3.12 of IEC255-7
 Item 3.30 of IEC255-7
 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	Release Time ms
Rated	Max.		65%	70%				
6	7.8	20	3.9	4.2	0.6	1.8	≤7	≤5
12	15.6	80	7.8	8.4	1.2			
24	31.2	320	15.6	16.8	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 Resistance¹⁾ 100MΩ min (at 500VDC) Item 7 of IEC255-5
 Dielectric Strength¹⁾
 Between contacts 50Hz 500V Item 6 of IEC255-5
 Between contact and coil 50Hz 500V Item 6 of IEC255-5
 Shock resistance 147m/s² 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°C ±2°C 10 ±0.5s IEC68-2-20 Test Ta method 1
 Ambient Temperature -40~85°C
 Relative Humidity 85% (at 40°C) IEC68-2-3 Test Ca
 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.

Ordering Information	
NVF4-3 C Z 30 b DC12V D	Coil transient suppression :D:with diod.;2D:with two diods.; R:with resis.;DR:with diod. and resis;Nil:standard
	Coil rated DC Voltage:6V, 12V, 24V
	b:PCB type PC, a:plug in type
	Contact Current: A From:50A,80A;B From:40A,60A;C From:50A,80A; U From:2×25A/14VDC
	Z:Dust Cover, S:Sealed type
	Contact Arrangement : A:1A, B:1B, C:1C, U:1U
	Part number:NVF4-3,NVF4-4(Insulation Bracket), NVF4-4a(Metal Bracket)

Dimensions (Unit: mm)		mm	inch
	40A, 50A	0.3	0.012
	60A, 80A	0.8	0.031
	60A, 80A PCB 式	1.4	0.055
	40A, 50A PCB type	1.93	0.076
	60A, 80A PCB type	2.16	0.085
	40A, 50A PCB type	2.5	0.098
	60A, 80A PCB type	2.6	0.102
	40A, 50A PCB type	3.2	0.126
	60A, 80A PCB type	3.8	0.150
	40A, 50A PCB type	4.6	0.181
	60A, 80A PCB type	5.5	0.127
	40A, 50A PCB type	6.3	0.248
	60A, 80A PCB type	7.3	0.287
	40A, 50A PCB type	8	0.315
	60A, 80A PCB type	8.4	0.331
	40A, 50A PCB type	9.5	0.374
	60A, 80A PCB type	9.8	0.386
	40A, 50A PCB type	11.5	0.453
	60A, 80A PCB type	12	0.472
	40A, 50A PCB type	15.2	0.598
	60A, 80A PCB type	16.8	0.661
	40A, 50A PCB type	17	0.669
	60A, 80A PCB type	17.9	0.705
	40A, 50A PCB type	19	0.748
	60A, 80A PCB type	22	0.866
	40A, 50A PCB type	26.5	1.043
	60A, 80A PCB type	29	1.142

Note: Footprint as shown upper is also available.

Wiring diagram (Bottom views)

