

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 100A.
- Suitable for automobile.
- PC board mounting and direct insert mounting available.
- 24V versions with contact gap >0.8mm.

Ordering Information

NVF4-3 **C** **Z** **50** **b** **DC12V** **1.8** **D**
 1 2 3 4 5 6 7 8

1 Part number: NVF4-3, NVF4-4 (Plastic Bracket),
 NVF4-4a (Metal Bracket)
 2 Contact arrangement: A:1A; B:1B; C:1C; U:1U
 3 Enclosure: S: Wash tight; Z: Flux proof
 4 Contact current: A Form:25A,40A,50A,70A,80A,100A
 B Form:25A,40A,60A
 C Form:25A,40A,50A,60A,80A
 U Form:2×15A, 2×25A
 5 Terminals: b: PCB type; a: plug in type

6 Coil rated voltage(V): DC:6,12,24
 7 Coil power: 1.8:1.8W; 2.3:2.3W; 2.6:2.6W
 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			
Contact Rating (Resistive)	1A	1B	1C	1U
	50A,70A,80A, 100A/14VDC 25A,40A/24VDC	40A,60A/14VDC 25A,40A/24VDC	NO:50A,80A/14VDC 25A, 40A/24VDC NC:40A,60A/14VDC 25A, 40A/24VDC	2×25A/14VDC 2×15A/24VDC
Max. Switching Power	1400W			
Max. Switching Voltage	75VDC			
Max. Switching Current	100A			
Voltage Drop (Initial)	Typ. 50mV (at 10A)		Item 4.12 of IEC 61810-7	
Operation	Electrical	1×10 ⁵		Item 4.30 of IEC 61810-7
Life	Mechanical	1×10 ⁷		Item 4.31 of IEC 61810-7

NOTE: Special high performance 24V version with contact gap >0.8mm; Limiting continuous current at 125°C:NC:NO:10A/15A,1U:2×11A.

Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance Ω ±10%	Pick-up voltage VDC(max) (65% of rated voltage)	Drop-out voltage VDC(min) (10% of rated voltage)	Coil power 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			
006-2300	6	7.8	15.6	3.9	0.6	2.3	≤7	≤5
012-2300	12	15.6	62.6	7.8	1.2			
024-2300	24	31.2	250.4	15.6	2.4			
006-2600	6	7.8	13.8	3.9	0.6	2.6	≤7	≤5
012-2600	12	15.6	55.4	7.8	1.2			
024-2600	24	31.2	221.5	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. Pick-up and release voltage are for test purposes only and are not to be used as design criteria.

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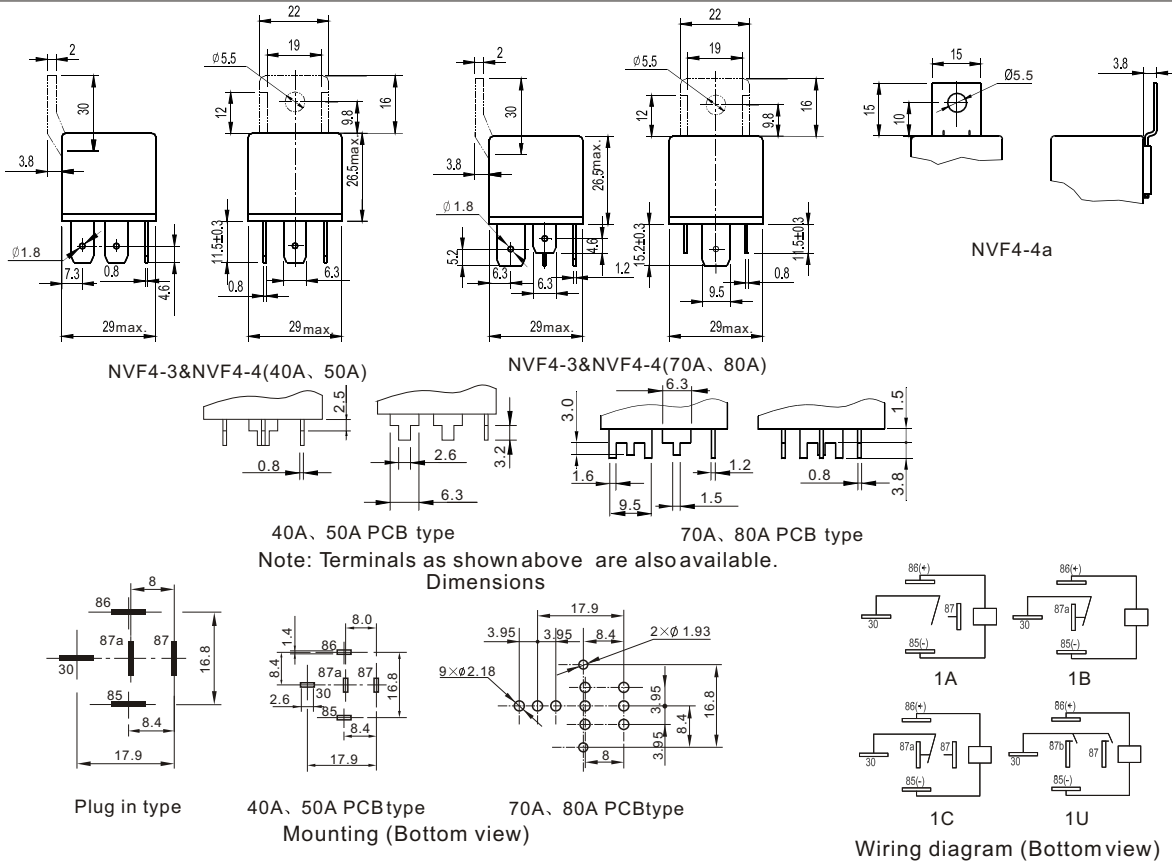
Characteristics

Insulation Resistance ¹⁾	100M Ω min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength ¹⁾ Between Contacts Between Contact and Coil	50Hz 500V 50Hz 500V	Item 4.9 of IEC 61810-7 Item 4.9 of IEC 61810-7
Shock Resistance	147m/s ² 11ms	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~40Hz Double amplitude 1.5mm	Item 4.28 of IEC 61810-7
Terminals Strength	Terminal retention (pull & push): $\geq 100N$ Terminal resistance to bending (front & side): $\geq 10N$	Item 4.24 of IEC 61810-7
Ambient Temperature	-40 $^{\circ}C$ ~125 $^{\circ}C$	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Mass	46g(NVF4-3);48g(NVF4-4)	Item 4.7 of IEC 61810-7

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

Dimensions

mm



CAUTION: In case of no tolerance shown in outline dimension: outline dimension $\leq 1mm$, tolerance should be $\pm 0.2mm$;
outline dimension $>1mm$ and $\leq 5mm$, tolerance should be $\pm 0.3mm$; outline dimension $>5mm$, tolerance should be $\pm 0.4mm$.

Reference Data

