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 QC 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:QC 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	1A	1 B	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	
Electrical Endurance	1×10^5		Item 4.30 of IEC 61810-7	
Mechanical Endurance	1×10^7		Item 4.31 of IEC 61810-7	

Notes: Special high performance 24V version with contact gap >0.8mm; Limiting continuous current at 125℃: 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	⩽10	⩽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		
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		
012-2600	12	15.6	55.4	7.8	1.2			
024-2600	24	31.2	221.5	15.6	2.4			

Notes: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
2.Pick-up and drop-out voltage are for test purposes only and are not to be used as design criteria.

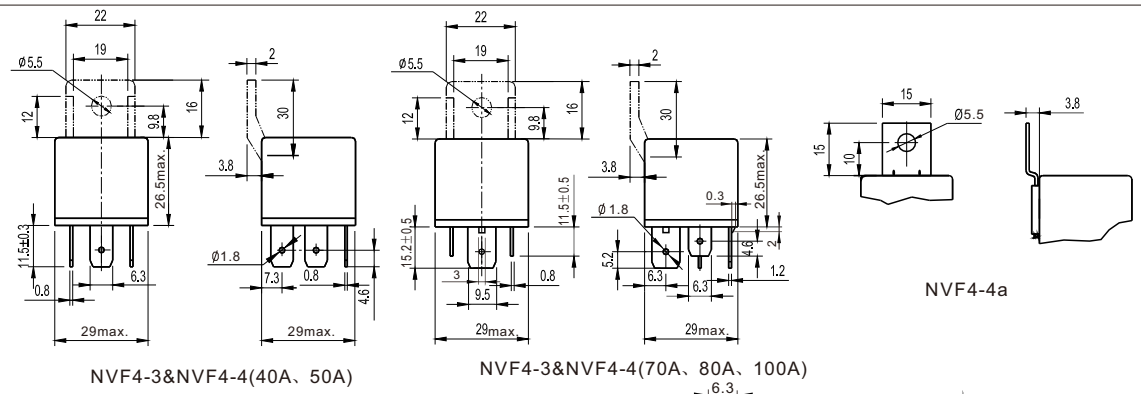
Characteristics

Insulation Resistance[1)]	100MΩ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength [1)] Between Contacts Between Contact and Coil	 500VAC 1min 500VAC 1min	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):≥100N Terminal resistance to bending(front & side):≥10N	Item 4.24 of IEC 61810-7
Ambient Temperature	-40℃~125℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Weight (Approx.)	46g(NVF4-3);48g(NVF4-4)	Item 4.7 of IEC 61810-7

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

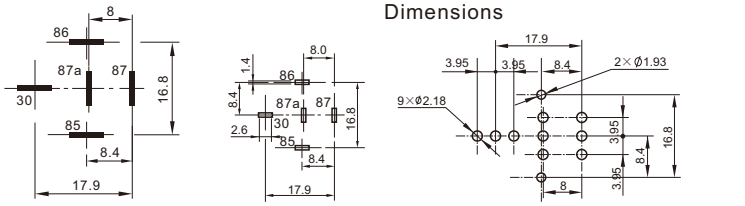
Dimensions

mm

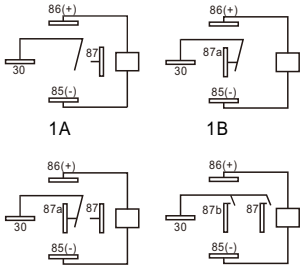


Notes: Terminals as shown above are also available.

Dimensions



Mounting (Bottom view)



Wiring diagram (Bottom view)

Remark: In case of no tolerance shown in outline dimension: outline dimension≤1mm,tolerance should be ±0.2mm ; outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

Reference Data