



35×33×34.5

NVF4-6

Features

- Small size.
- Contact load capacity up to 150A.
- Suitable for automobile.
- PC board mounting and QC mounting available.

Ordering Information

NVF4-6a C Z 100 a S D DC12V
1 2 3 4 5 6 7 8

- 1 Part number: NVF4-6,
 NVF4-6a(Metal Bracket)

2 Contact arrangement: A:1A; C:1C

3 Enclosure: Z: Flux proof

4 Contact rating: 50:50A; 100:100A; 150:150A

5 Terminals: a:QC type; b:PCB type
- 6 Contact material: S:AgSnO₂

7 Coil transient suppression: D:with diode
 R:with resistor
 NIL:standard

8 Coil rated voltage(V): DC:12,24

Contact Data

Contact Arrangement	1A(SPSTNO) 1C(SPDT(B-M))	
Contact Material	AgSnO ₂	
Contact Rating	NO: 100A,150A/12VDC;50A/24VDC NC: 80A,100A/12VDC;50A/24VDC	
Max. Switching Power	1800W	
Max. Switching Voltage	75VDC	Max. Switching Current:150A
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

Coil Parameter

Coil voltage VDC		Coil resistance Ω±10%		With Suppression Rsistive	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.	Without Rsistive	With Rsistive						
12	15.6	50	47	680	7.8	1.2	2.9	≤10	≤5
24	31.2	195	182	2700	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.

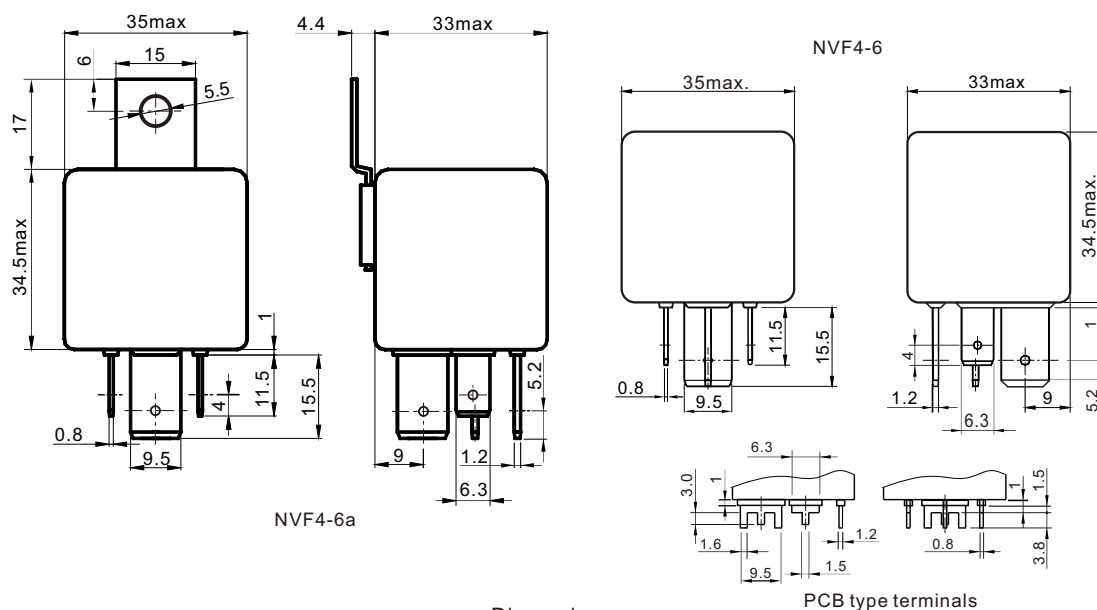
Characteristics

Insulation Resistance ¹⁾	100MΩ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength ¹⁾		
Between Open Contacts	750VAC 1min	Item 4.9 of IEC 61810-7
Between Contact and Coil	1000VAC 1min	
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.)	65g	Item 4.7 of IEC 61810-7

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

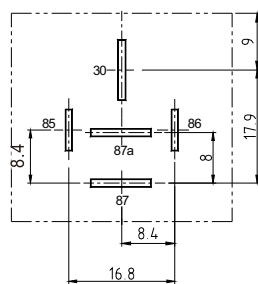
Dimensions

mm

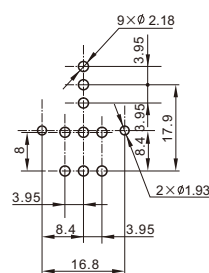


Dimensions

PCB type terminals

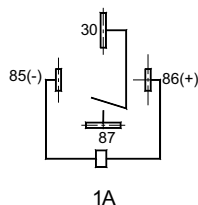


QC type

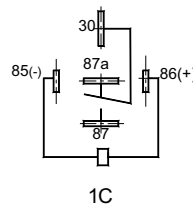


PCB type

Mounting (Bottom view)



1A



1C

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.