



NVF7

NVF7 NVF7-2
26×26×22.7 26×26×22.7 (+15.2)

Features

- Small size, light weight.
- Heavy contact load(80A) .
- Contact arrangement Form A .
- Insert mounting, with metal frame.
- Diode or Resistor assembled available.
- PC board mounting and QC mounting available.

Ordering Information

NVF7 A Z 70 a R DC12V

1 2 3 4 5 6 7

1 Part number: NVF7
 NVF7-2(Plastic Bracket)
 NVF7-2a(Metal Bracket)
2 Contact arrangement: A:1A
3 Enclosure: S:Wash tight; Z:Flux proof
4 Contact rating: 70:70A; 80:80A

5 Terminals: a: QC type; b:PCB type
6 Coil transient suppression: D:with diode
 R:with resistor
 NIL:standard
7 Coil rated voltage(V): DC:12,24

Contact Data

Contact Arrangement	1A(SPSTNO)								
Contact Material	AgSnO ₂								
Contact Rating	70A,80A/14VDC 25A/28VDC								
Max. Switching Power	1120W								
Max. Switching Voltage	75VDC				Max. Switching Current: 80A				
Voltage Drop(Initial)	Typ.: 50mV(at 10A)				Item 4.12 of IEC 61810-7				
Electrical Endurance	80A/14VDC 85℃ 5×10 ⁴ 70A/14VDC,25A/28VDC 105℃ 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%		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 resistor	With resistor			Without resistor	With resistor		
12	15.6	90	80	7.8	1.2	Approx.	Approx.	≤10	≤10
24	31.2	360	320	15.6	2.4	1.6	1.8		

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.

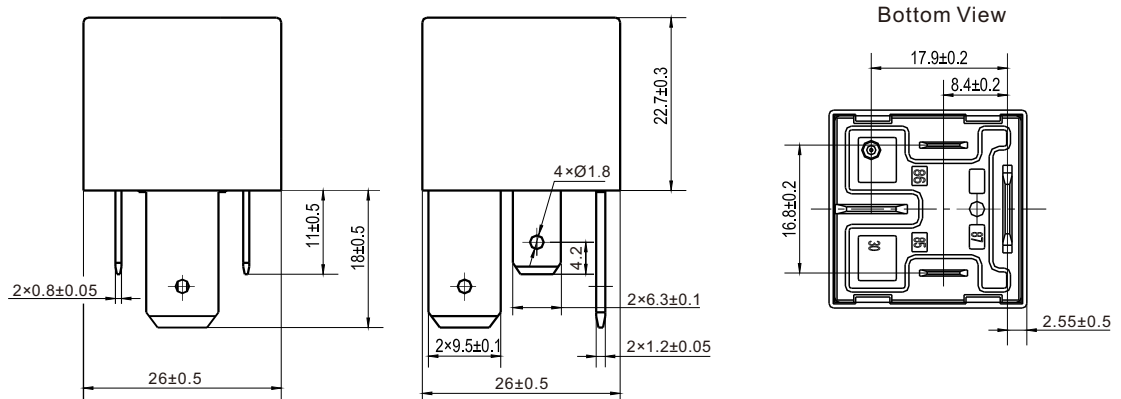
Characteristics

Insulation Resistance ¹⁾	100M Ω min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength ¹⁾ Between Open Contacts Between Contact and Coil	500VAC 1min 500VAC 1min	Item 4.9 of IEC 61810-7
Shock Resistance	294m/s ²	Item 4.26 of IEC 61810-7
Vibration Resistance	10~22.3Hz Double amplitude 10mm 22.3~500Hz 98m/s ²	Item 4.28 of IEC 61810-7
Terminals Strength	Terminal retention(pull and push): $\geq$ 100N Terminal resistance to bending (front & side): $\geq$ 10N	Item 4.24 of IEC 61810-7
Ambient Temperature	-40°C~125°C	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Weight (Approx.)	38g	Item 4.7 of IEC 61810-7

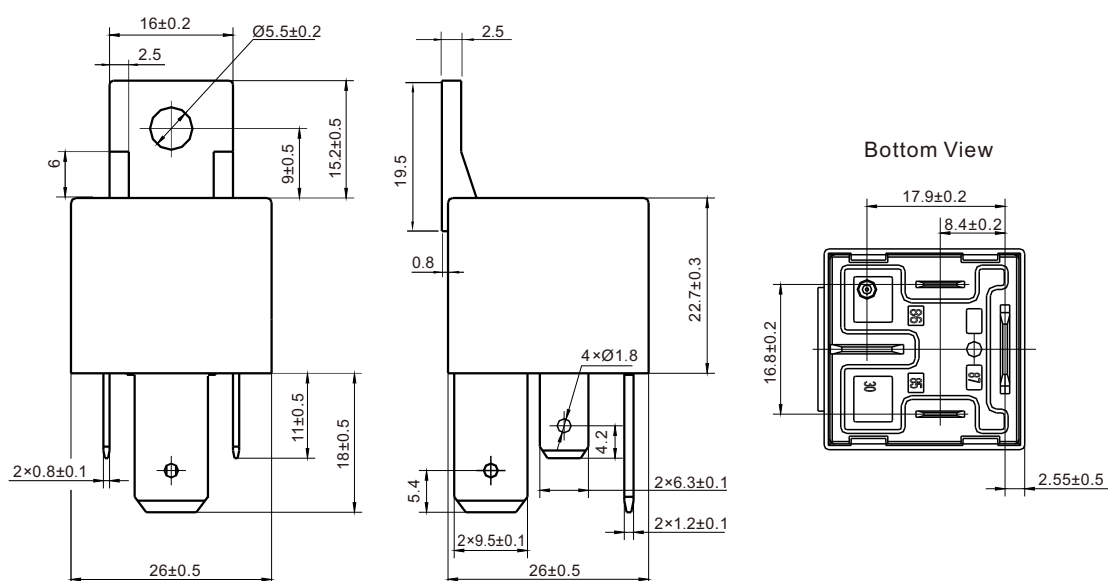
Notes: 1). When testing, coil terminals should be connected, If coil transient suppression is installed in relay .

Dimensions

mm



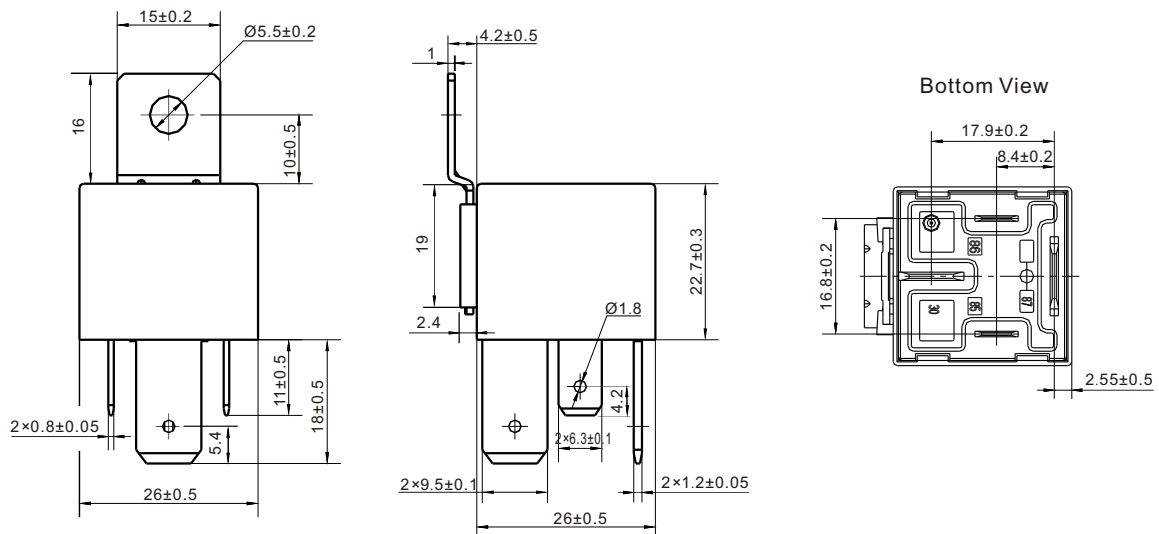
NVF7



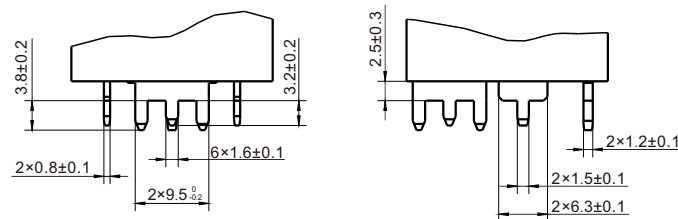
NVF7-2

Dimensions

mm

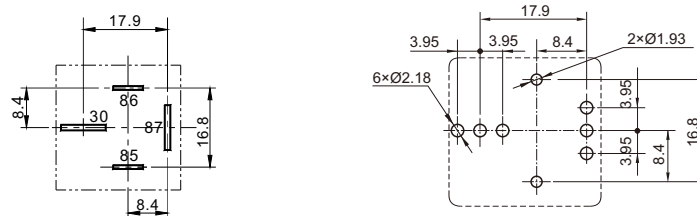


NVF7-2a



PCB type terminals

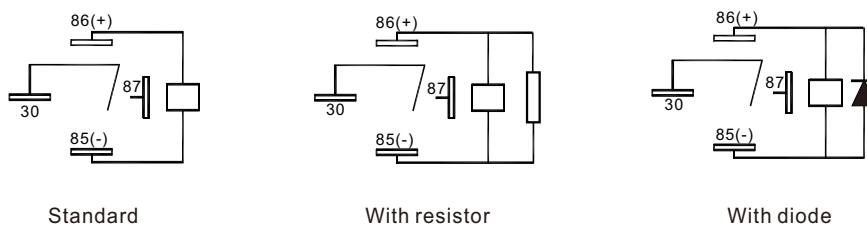
Dimensions



QC type

PCB type

Mounting (Bottom view)



Standard

With resistor

With diode

Wiring diagram (Bottom view)

Remark: In case of no tolerance shown in outline dimension: outline dimensions ≤ 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 Date

