

# NVF7



NVF7



NVF7-2



NVF7-2b

26×26×22.7    26×26×22.7 (+15.2)    35.5×35.5×45.5 (+22.5)

### Features

- Small size, light weight.
- 70A switching capability .
- 1 Form A contact arrangement.
- Various mounting way available.
- Diode or Resistor assembled available.

### Ordering Information

**NVF7- A Z 70 a 1.6 R DC12V**  
 1    2    3    4    5    6    7    8

1 Part number: NVF7, NVF7-2(Plastic Bracket) NVF7-2a(Metal Bracket) NVF7-2b(Shrouded Bracket)	6 Coil power consumption: 1.6:1.6W 7 Coil transient suppression: D: with diode R: with resistor NIL: standard
2 Contact arrangement: A:1A	8 Coil rated voltage(V):DC:12,24
3 Enclosure: S: Wash tight relay; Z: Dust protected	
4 Contact current: 70A,80A	
5 Terminals: a: Plug in type; b:PCB type	

### Contact Data

Contact Arrangement	1A(1H) (SPSTNO)		
Contact Material	AgSnO <sub>2</sub>		
Contact Rating (Resistive)	70A,80A/14VDC,35A/28VDC		
Max. Switching Power	1120W		
Max. Switching Voltage	75VDC	Max. Switching Current: 80A	
Voltage Drop	≤ 50mV (at 10A)	Item 4.12 of IEC 61810-7	
Operation life	Electrical	80A/14VDC 85°C 5×10 <sup>4</sup> 70A/14VDC 105°C 1×10 <sup>5</sup>	Item 4 .30 of IEC 61810-7
	Mechanical	10 <sup>7</sup>	Item 4 .31 of IEC 61810-7

### Coil Parameter

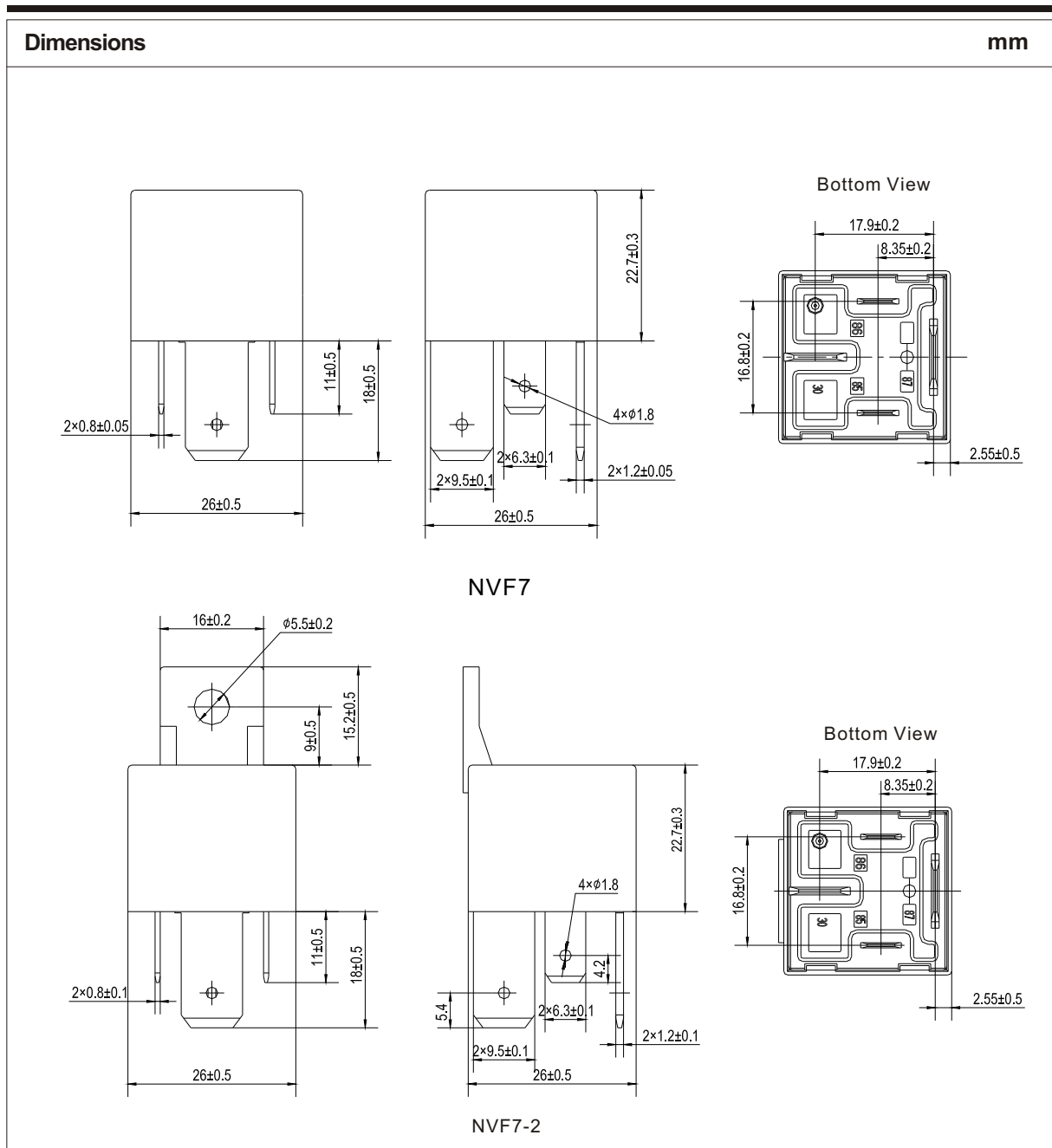
Dash numbers	Coil voltage VDC		Coil resistance Ω ±10%		Pick-up voltage VDC(max)	Release voltage VDC(min)	Coil power consumption (W)		Operate Time ms	Release Time ms
	Rated	Max.	Without resistor	With resistor			Without resistor	With resistor		
012-1600	12	15.6	90	80	65%of rated voltage	10%of rated voltage	Approx. 1.6	Approx. 1.8	≤10	≤10
024-1600	24	31.2	360	320						

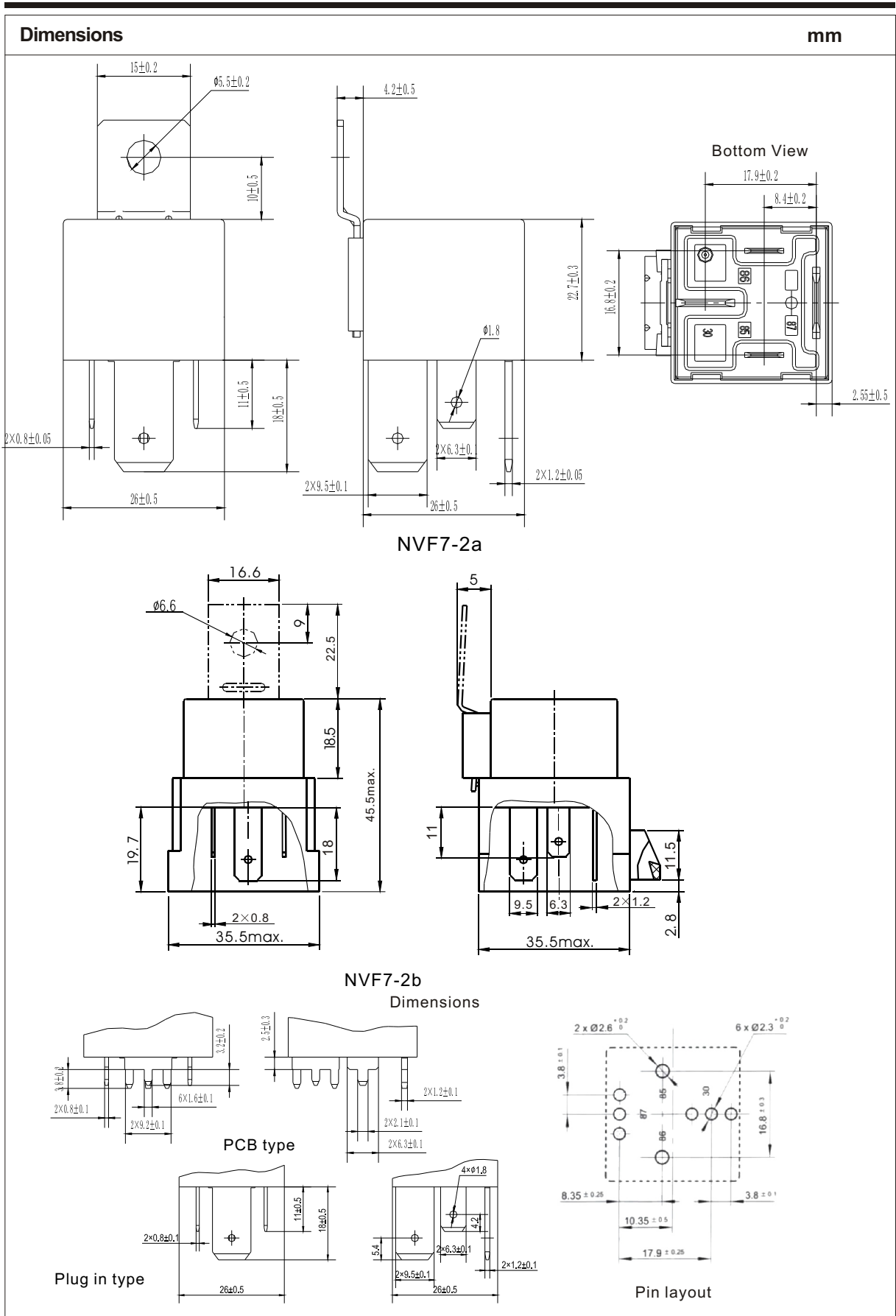
**CAUTION:** 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.  
 2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

## Operation condition

Insulation Resistance	100M $\Omega$ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Open Contacts Between Contact and Coil	50~60Hz AC500V 1min 50~60Hz AC500V 1min	Item 4.9 of IEC 61810-7 Item 4.9 of IEC 61810-7
Shock Resistance	294m/s <sup>2</sup>	Item 4.26 of IEC 61810-7
Vibration Resistance	10~22.3Hz double amplitude 10mm 22.3~500Hz 98m/s <sup>2</sup>	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 $^{\circ}$ C~125 $^{\circ}$ C	
Relative Humidity	85% (at 40 $^{\circ}$ C)	Item 4.16 of IEC 61810-7
Mass	38g	Item 4.7 of IEC 61810-7

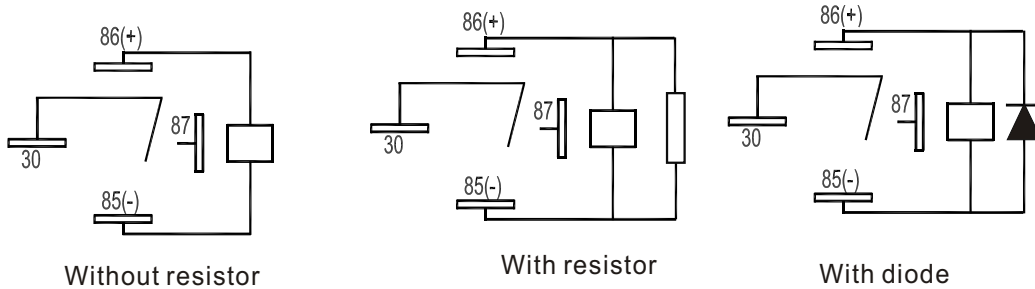
Note: 1). When testing, coil terminals should be connected, If coil transient suppression is installed in relay .





## Dimensions

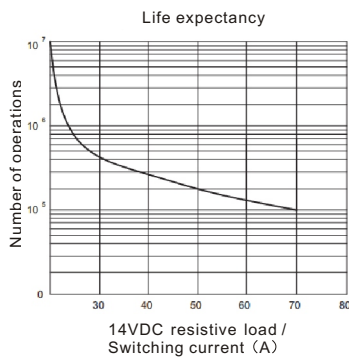
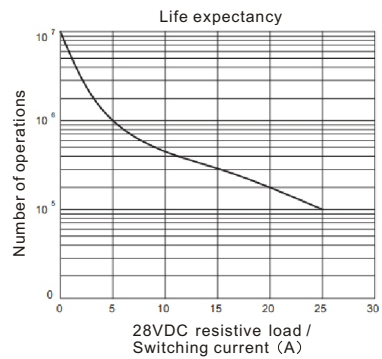
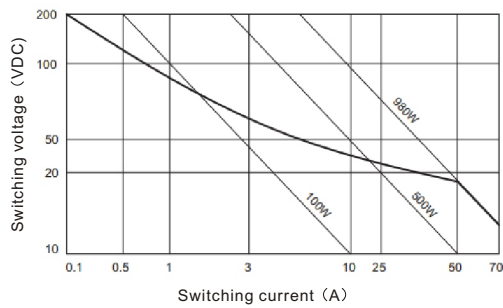
mm



Wiring diagram (Bottom view)

## Reference Date

Safe breaking, arcextinguished (normally open contact) for resistive loads



Ambient temperature vs coil voltage for continuous contact load

