FORWARD RELAYS

NVF6
26×26×22.7

NVF6-2
26×26×22.7(+15.2)

NVF6-2b
35.5×35.5×45.5(+22.5)

NVF6

Features

- Heavy contact load (50A).
- 1 Form A and 1 Form C configurations .
- PC board mounting and direct insert mounting available.
- Widely operated in automobile lamps, Rear-window defroster, air-conditioner, open circuit, fuel pump, cooling fan ,on-off control, etc.

Ordering Information

NVF6 C Z 50 a R DC12V
1 2 3 4 5 6 7

1 Part number: NVF6
NVF6-2(Plastic Bracket)
NVF6-2a(With Metal Bracket)
NVF6-2b(Shrouded With Metal Bracket)
2 Contact arrangement: A:1A; C:1C
3 Enclosure: S: Wash tight: Z: Flux proof
4 Contact current: 50A
5 Terminals: a: Plug in 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) 1C(SPDT(B-M))	
Contact Material		$AgSnO_2$	
Contact Rating (Resistive)		1A: 50A/14VDC 20A/28VDC	1C: NO:50A/14VDC,20A/28VDC NC:35A/14VDC,15A/28VDC
Max. Switching Power		700W	
Max. Switching Voltage		75VDC	Max. Switching Current: 50A
Voltage Drop(Initial)		Typ. 50mV(at 10A)	Item 4.12 of IEC 61810-7
Operation life	Electrical	1×10^5	Item 4.30 of IEC 61810-7
	Mechanical	1×10^7	Item 4.31 of IEC 61810-7

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.	Without resistor	With resistor			Without resistor	With resistor		
012-1600	12	15.6	90	80	7.8	1.2	Approx. 1.6	Approx. 1.8	≤10	≤10
024-1600	24	31.2	360	320	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.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

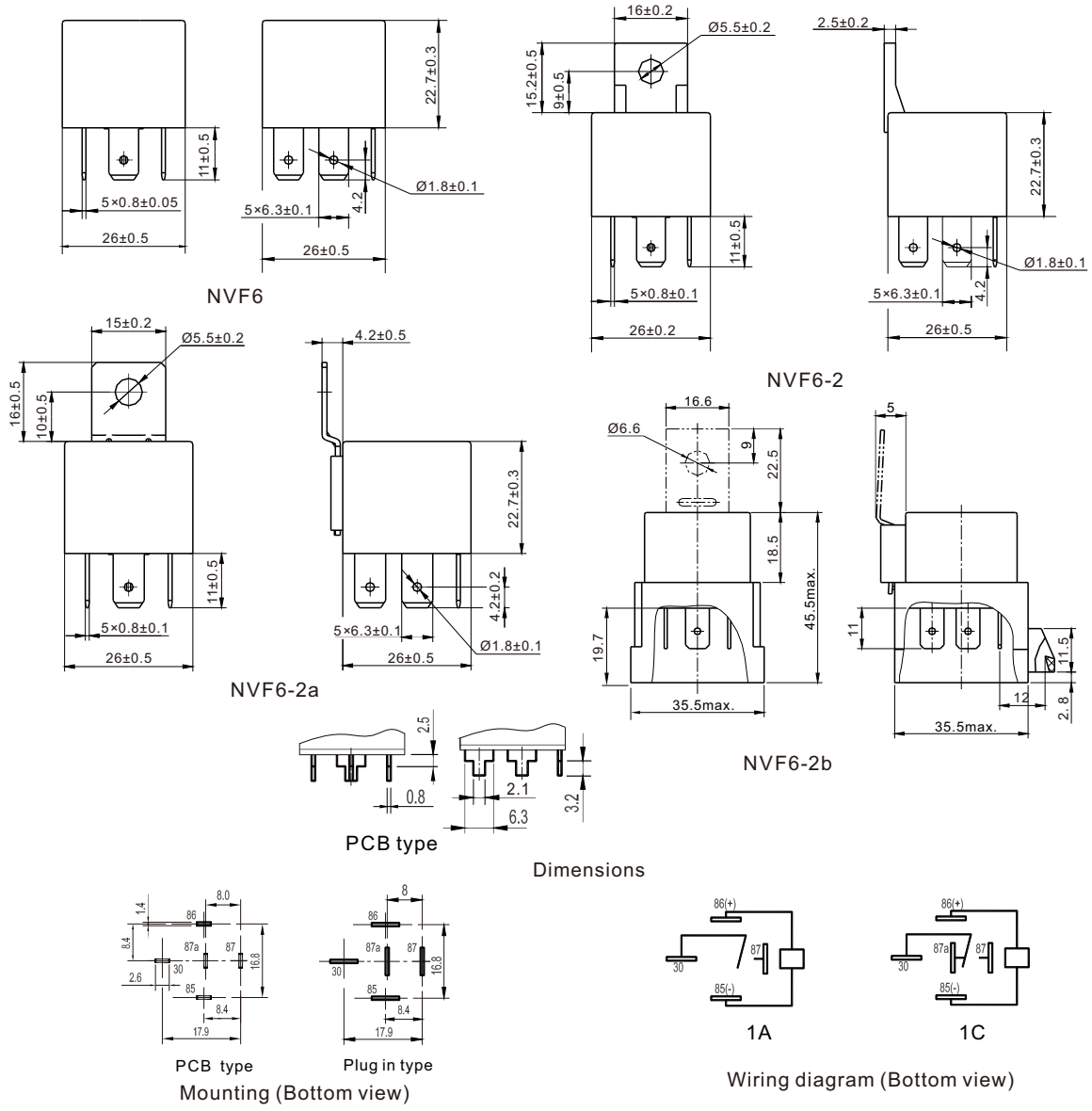
Characteristics

Insulation Resistance	100MΩ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength Between Open Contacts Between Contact and Coil	 50~60Hz 500V 1min 50~60Hz 500V 1min	 Item 4.9 of IEC 61810-7 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 & 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
Mass	35g	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



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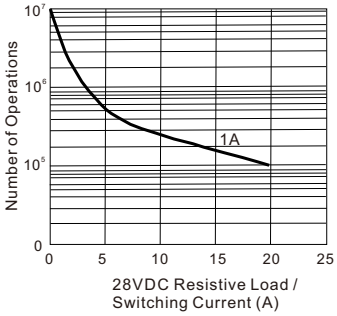
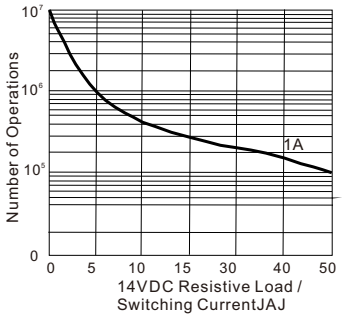
Reference Date

Endurance Cruve



Endurance Cruve



Max. DC Load Breaking Capacity