NVF6
26×26×22.7

NVF6-2
26×26×22.7(+15.2)

NVF6

Features

- Heavy contact load (50A).
- Contact arrangement form A and from C available.
- PC board mounting and QC 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 rating: 50:50A

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) 1C(SPDT(B-M))	
Contact Material	$AgSnO_2$	
Contact Rating	1A	1C
	50A/14VDC 20A/28VDC	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
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%		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 24	15.6 31.2	90 360	80 320	7.8 15.6	1.2 2.4	Approx. 1.6	Approx. 1.8	≤10	≤10

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.

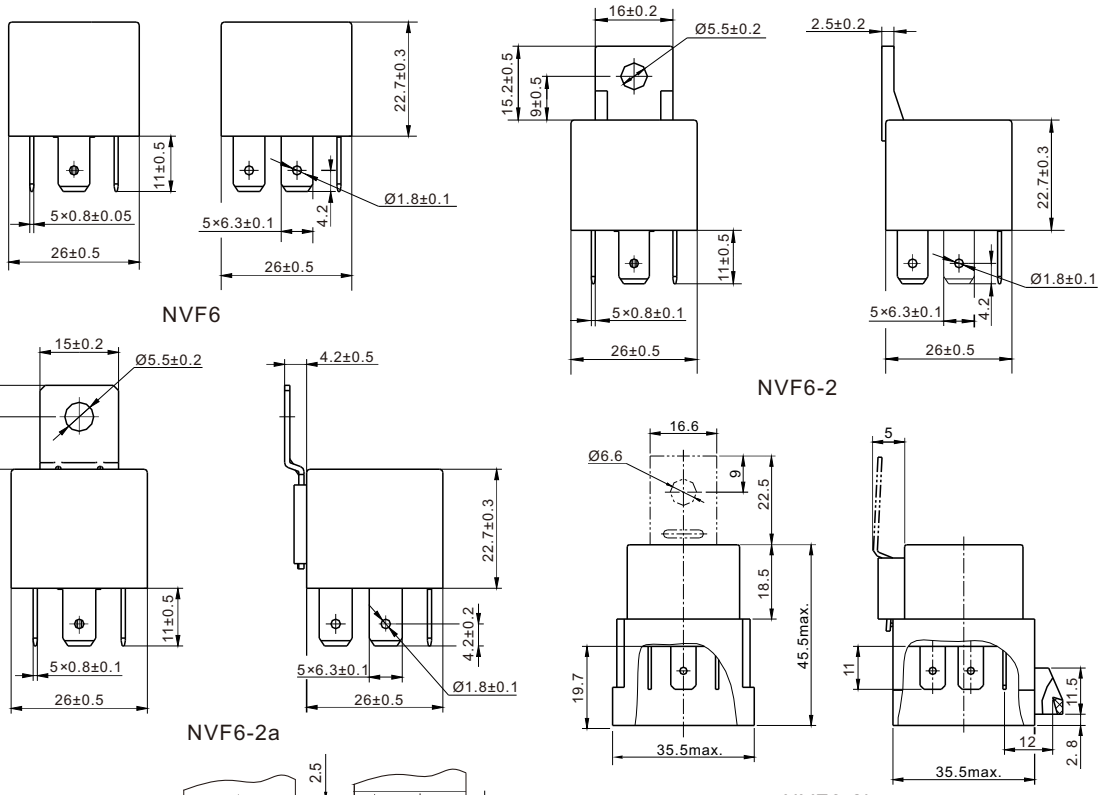
Characteristics

Insulation Resistance[1)]	100MΩ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength[1)] Between Open Contacts 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 & 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.)	35g	Item 4.7 of IEC 61810-7

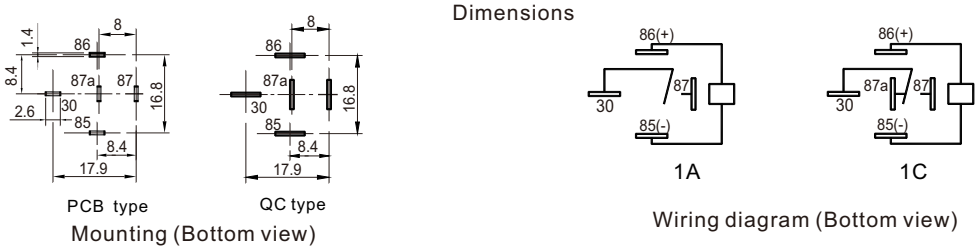
Notes: 1). When testing, coil terminals should be connected, If coil transient suppression is installed in relay .

Dimensions

mm



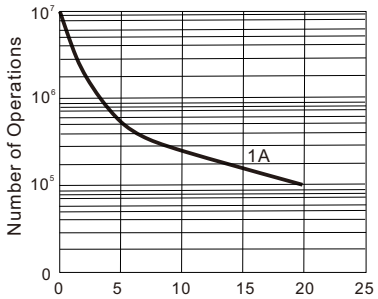
Dimensions



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.

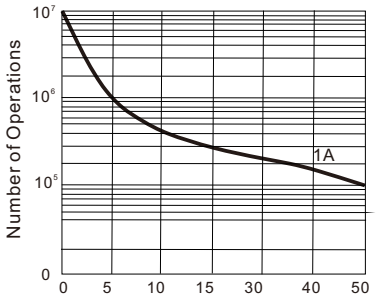
Reference Date

Endurance Cruve



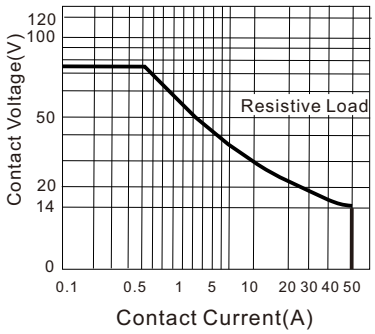
Switching Current (A)
(28VDC Resistive Load)

Endurance Cruve



Switching Current(A)
(14VDC Resistive Load)

Max. DC Load Breaking Capacity



Contact Current(A)