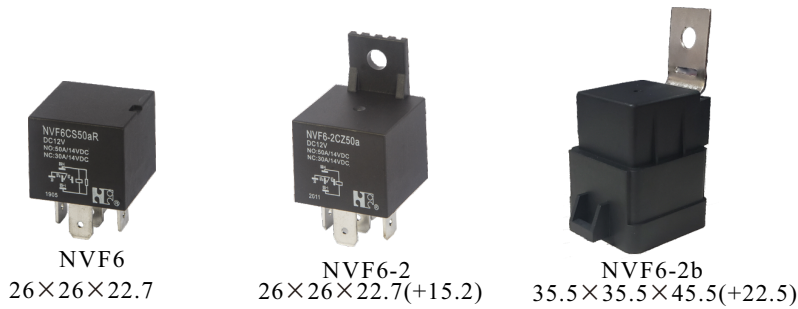




NVF6

Features

- Heavy contact load (50A).
- 1 Form A and 1 Form C configurations .
- 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 current: 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	
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

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				

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.

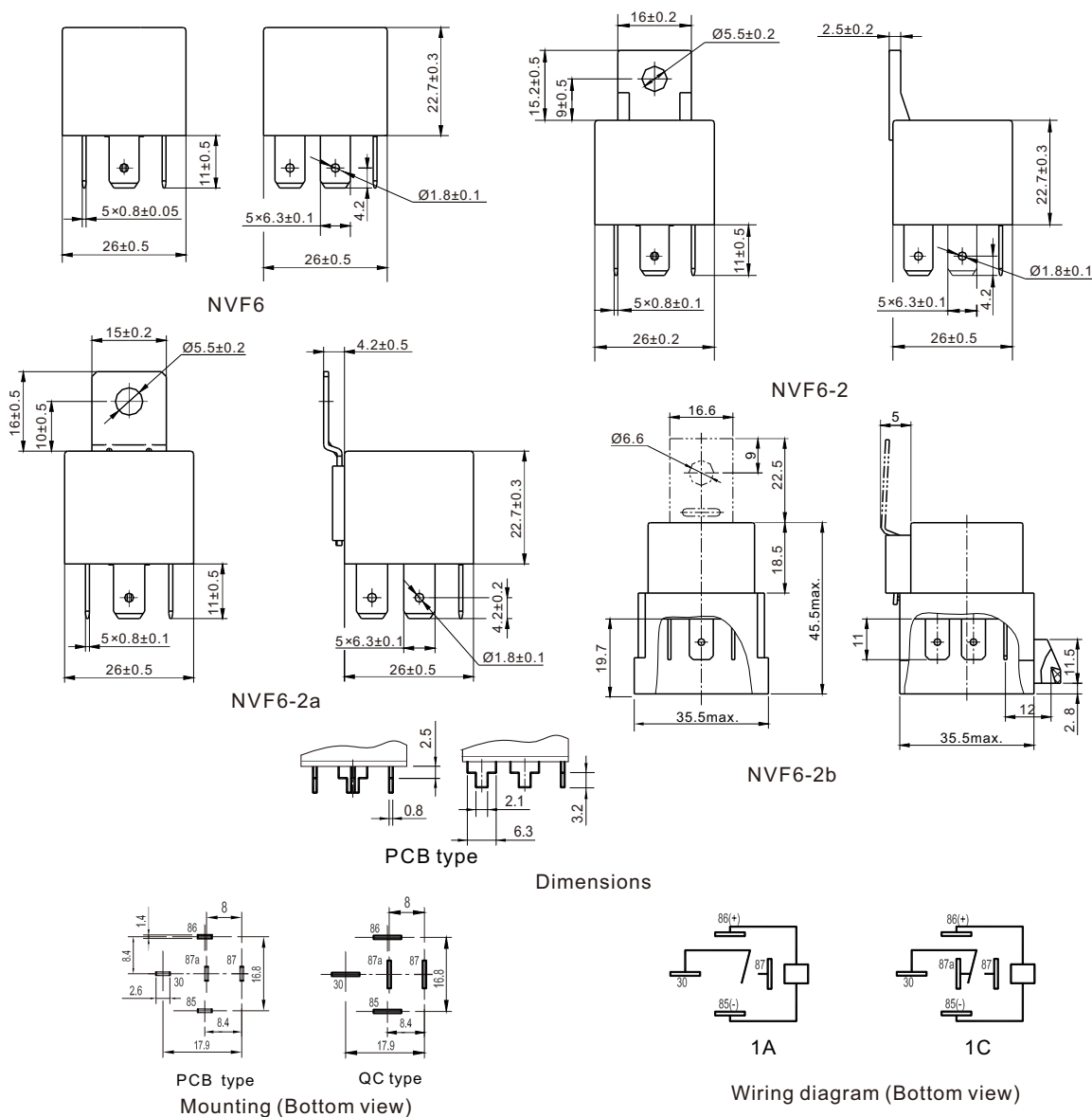
Characteristics

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



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

