NVF4-7&NVF4-8

NVF4-7
26.5×26.5×25.2

NVF4-8
26.5×26.5×25.2(+16)

Features

- Small size and light weight.
- Heavy contact load (70A).
- Suitable for automobile and lamp accessories application.
- PC board mounting and direct insert mounting available.

Ordering Information

NVF4-7 A Z 70 b DC12V 1.6 D
1 2 3 4 5 6 7 8

1 Part number：NVF4-7,NVF4-8(Plastic Bracket)
2 Contact arrangement：A:1A
3 Enclosure：Z: Dust protected
4 Contact current：50:50A;70:70A
5 Terminals：b: PCB type；a: plug in type

6 Coil rated voltage(V)：DC:6,12,24
7 Coil power：1.6:1.6W；1.9:1.9W
8 Coil transient suppression： D: with diode
2D:with two diodes
R: with resistance
DR: with diode and resistance
NIL: standard

Contact Data

Contact Arrangement		1A(SPSTNO)	
Contact Material		$AgSnO_2$	
Contact Rating (Resistive)		50A/14VDC（at 85℃），70A/14VDC	
Max. Switching Power		980W	
Max. Switching Voltage		50VDC	Max. Switching Current:70A
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) (60%of rated voltage)	Drop-out voltage VDC(min) (10% of rated voltage)	Coil power W	Operate time ms	Release time ms
	Rated	Max.						
006-1900	6	7.8	19	3.6	0.6	1.9	≤7	≤2
012-1900	12	15.6	76	7.2	1.2			
024-1900	24	31.2	303	14.4	2.4			
012-1600	12	15.6	90	7.2	1.2	1.6		
024-1600	24	31.2	360	14.4	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.

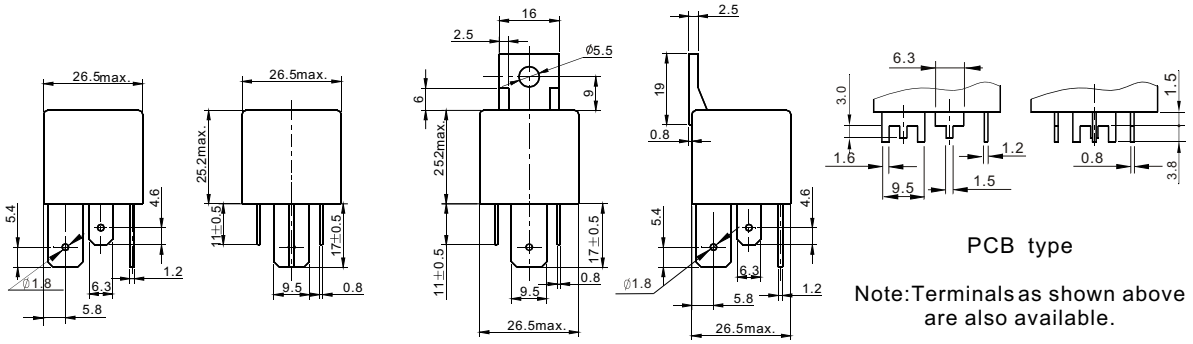
Characteristics

Insulation Resistance[1)]	100MΩmin (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength [1)] Between Contacts Between Contact and Coil	 50Hz 500V 50Hz 500V	 Item 4.9 of IEC 61810-7 Item 4.9 of IEC 61810-7
Shock Resistance	30m/s^2 6ms	Item 4.26 of IEC 61810-7
Vibration Resistance	20Hz~500Hz Double amplitude 1.8mm	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℃~105℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Mass	36g（NVF4-7);41g（NVF4-8)	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

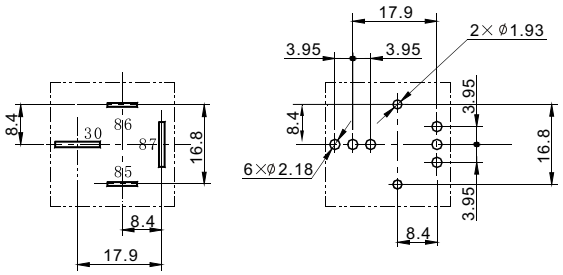
mm



PCB type

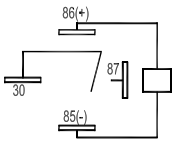
Note:Terminals as shown above are also available.

Dimensions



Plug in type PCB type

Mounting (Bottom view)



Wiring diagram (Bottom view)

CAUTION: 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.