

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 QC 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:QC 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	50A/14VDC(at 85°C),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
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) (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	≤7	≤2
024-1600	24	31.2	360	14.4	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.

NVF4-7&NVF4-8

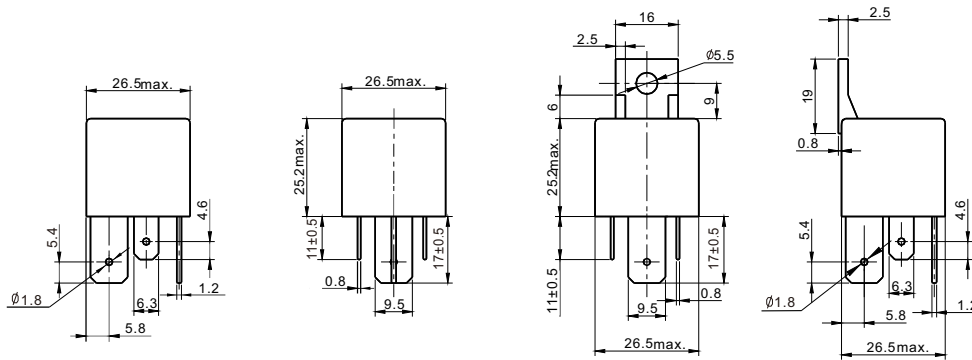
Characteristics

Insulation Resistance ¹⁾	100MΩ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength ¹⁾ Between Contacts Between Contact and Coil	500VAC 1min 500VAC 1min	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
Weight (Approx.)	36g(NVF4-7);41g(NVF4-8)	Item 4.7 of IEC 61810-7

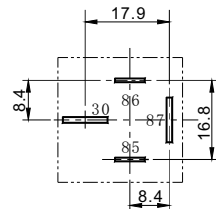
Notes: 1). When testing, coil terminals should be connected, If coil transient suppression is installed in relay .

Dimensions

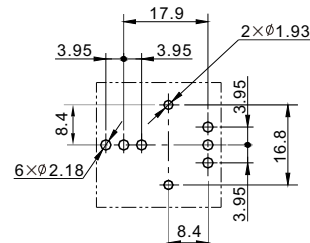
mm



Dimensions

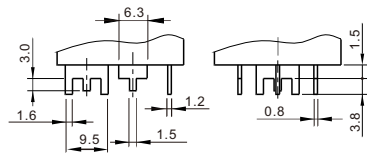


QC type

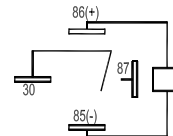


PCB type

Mounting (Bottom view)



PCB type



Wiring diagram (Bottom view)

Note: Terminals as shown above are also available.

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.