

NVF4-1 & NVF4-2



NVF4-1 NVF4-2 NVF4-2b
 26.5×26.5×24.5(+15.5) 35.5×35.5×45.5(+22.5)

Features

- Small size and light weight.
- Heavy contact load (40A).
- Suitable for automobile and lamp accessories application.
- PC board mounting and direct insert mounting available.

Ordering Information

NVF4-1 C Z 30 b DC12V 1.6 D

1 2 3 4 5 6 7 8

1 Part number: NVF4-1 NVF4-2(Plastic Bracket), NVF4-2a(With Metal Bracket) NVF4-2b(Shrouded With Metal Bracket)	5 Terminals: b: PCB type; a1: plug in type 1; a2: plug in type 2 6 Coil rated voltage(V): DC:6,12,24,48 7 Coil power: 1.6:1.6W; 1.9:1.9W; 2.3:2.3W; 2.6:2.6W
2 Contact arrangement: A:1A1; A2:1A2; B:1B; C:1C; C2:1C2	8 Coil transient suppression: D: with diode R: with resistance NIL: standard
3 Enclosure: S: Wash tight; Z: Dust protected	
4 Contact current: A Form:20A,40A; B Form: 20A,30A; C Form or C2 Form:15A,20A, 30A, 40A; A2 Form: 2×20A	

Contact Data

Contact Arrangement	1A(SPSTNO) 1B(SPSTNC) 1C(SPDT(B-M))			
Contact Material	AgSnO ₂			
Contact Rating (Resistive)	1A1	1B	1C or C2	1A2
	40A/14VDC 20A/24VDC	30A/14VDC 20A/24VDC	NO:40A/14VDC NC:30A,40A/14VDC 15A, 20A/24VDC	2×20A/14VDC
Max. Switching Power	630W			
Max. Switching Voltage	75VDC		Max. Switching Current:40A	
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

NOTE: Limiting continuous current at 125°C:NC:NO:10A/15A.

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.										
006-1600	6	7.8	22.5	3.9	0.6	1.6	≤7	≤5				
009-1600	9	11.7	50.6	5.9	0.9							
012-1600	12	15.6	90	7.8	1.2							
024-1600	24	31.2	360	15.6	2.4							
048-1600	48	62.4	1440	31.2	4.8							
006-1900	6	7.8	19	3.9	0.6	1.9			≤7	≤5		
012-1900	12	15.6	75.8	7.8	1.2							
024-1900	24	31.2	303.2	15.6	2.4							
006-2300	6	7.8	15.6	3.9	0.6	2.3					≤7	≤5
012-2300	12	15.6	62.6	7.8	1.2							
024-2300	24	31.2	250.4	15.6	2.4							
006-2600	6	7.8	13.8	3.9	0.6	2.6	≤7	≤5				
012-2600	12	15.6	55.4	7.8	1.2							
024-2600	24	31.2	221.5	15.6	2.4							

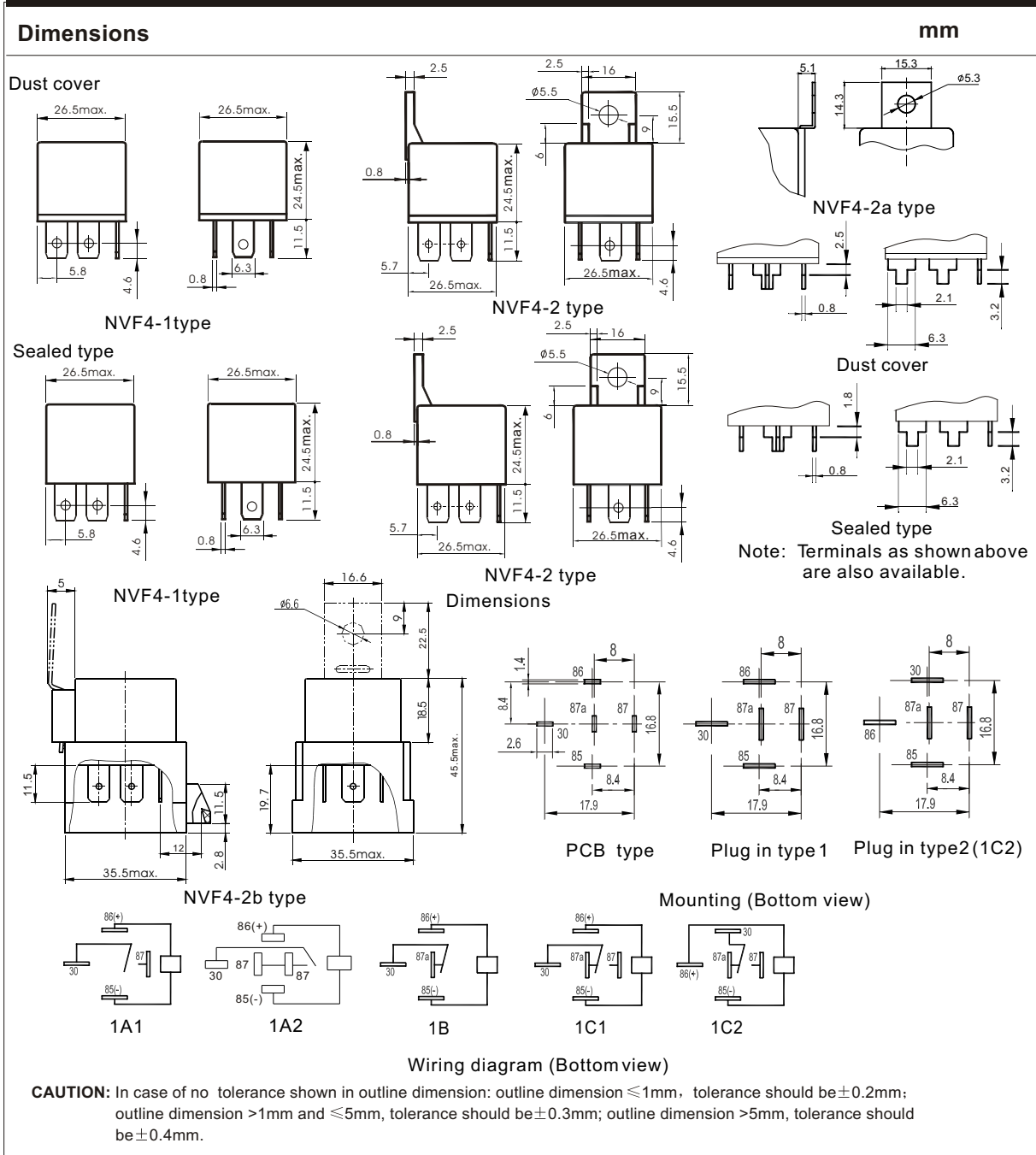
CAUTION: 1.The use of any coil voltage less than the rated coil voltage will compromise the operation of the relay.
 2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

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Characteristics

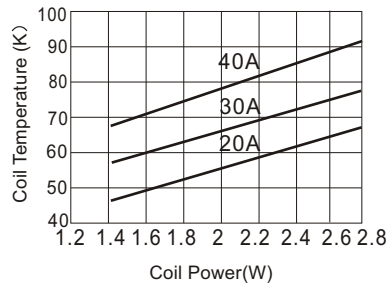
Insulation Resistance ¹⁾	100M Ω min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength ¹⁾ Between Contacts Between Contact and Coil	50Hz 500V 50Hz 750V	Item 4.9 of IEC 61810-7 Item 4.9 of IEC 61810-7
Shock Resistance	147m/s ² 11ms	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~40Hz Double amplitude 1.5mm	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°C~125°C	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Mass	31g(NVF4-1);33g(NVF4-2);33g(NVF4-2a);45g(NVF4-2b)	Item 4.7 of IEC 61810-7

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



Reference Data

Coil Temperature Rise (Ambient Temperature 20°C)



Contact Switching Capacity

