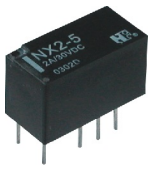
DB LECTRO INC

Présente / Presents:

NINGBO HUAGUAN ELECTRONICS CO.,LTD.

NHG

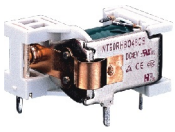












DB LECTRO Inc. 3755 Place Java, Suite 140, Brossard, Québec, J4Y 0E4, Canada - T: 1-450-444-1424 / F: 1-450-444-4714 / www.dblectro.com

NVF4-1&NVF4-2



NVF4-1
26.5×26.5×24.5



NVF4-2
26.5×26.5×24.5(+16)

RoHS

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	C	D
1	2	3	4	5	6	7	8	9

1Part number：NVF4-1,NVF4-2(Insulation Bracket),
NVF4-2a(Shrouded Type With Metal Bracket,
Contact Arrangement:1A,1C)
NVF4-2b(Shrouded Type With Metal Bracket,
Contact Arrangement::1U)
2Contact arrangement：A:1A；B:1B；C:1C；U:1U
3Enclosure：S: Sealed type；Z: Dust cover；
4Contact current：A Form:2×20A,40A；B Form:30A
C Form:30A、40A； U Form:2×20A

5 Terminals：b: PCB type；a: plug in type
6 Coil rated voltage(V)：DC:6,12,24
7 Coil power consumption：1.6:1.6W；1.9:1.9W
8 Contact material：C:AgCdO；N:AgNi；NIL: $AgSnO_2$
9 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) ,1B (SPSTNC) ,1C (SPDT(B-M)) ,1U (SPSTNODM)			
Contact Material	$AgSnO_2$, AgNi			
Contact Rating (resistive)	1A	1B	1C	1U
	40A, 2×20A/14VDC	30A/14VDC	NO:40A/14VDC NC:30A,40A/14VDC	2×20A/14VDC
Max. Switching Power	630W			
Max. Switching Voltage	75VDC	Max. Switching Current:40A		
Contact Resistance or Voltage drop	⩽ 30mΩ	Item 3.12 of IEC255-7		
Operation life	Electrical 10^5	Item 3.30 of IEC255-7		
	Mechanical 10^7	Item 3.31 of IEC255-7		

Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance Ω ±10%	Pick up voltage VDC(max) (65%of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power consumption 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		
012-1900	12	15.6	75.8	7.8	1.2			
024-1900	24	31.2	303.2	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.

Operation condition

Insulation Resistance[1)]	100MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength [1)] Between contacts Between contact and coil	 50Hz 500V 50Hz 750V	 Item 6 of IEC255-5 Item 6 of IEC255-5
Shock resistance	147m/s^2 11ms	IEC68-2-27 Test Ea
Vibration resistance	10~40Hz double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminals strength	8N 4N (PC type)	IEC68-2-21 Test Ua2
Solderability	235℃ ±2℃ 3±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~125℃	
Relative Humidity	85% (at 40℃)	IEC68-2-3 Test Ca
Mass	31g(NVF4-1);36g(NVF4-2)	

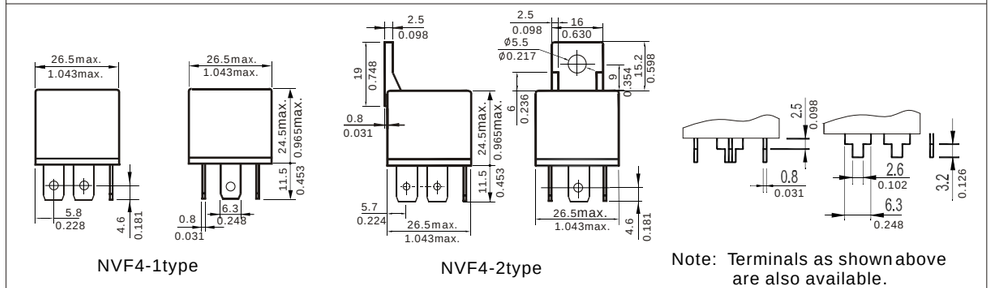
Note: 1). When testing, coil terminals should be connected, If coil transient suppression is installed in relay .

Qualification inspection:

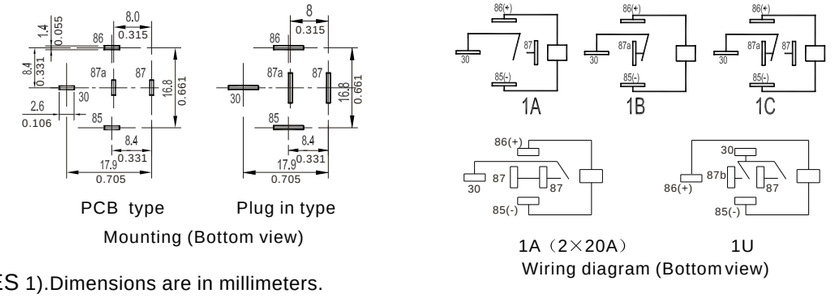
Perform the qualification test as specified in the table Ⅳ of IEC255-19-1 and minimum sample size 24.

Dimensions

mm /inch



Dimensions



NOTES 1).Dimensions are in millimeters.
2).Inch equivalents are given for general information only.

Reference Data

