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NVF4-6

Features

- Small size.
- Contact load capacity up to 150A
- Suitable for automobile
- Terminal types as inserting

Ordering Information

NVF4-6 C Z 50 a DC12V N D

1 2 3 4 5 6 7 8

1 Part number: NVF4-6	6 Coil rated voltage(V): DC:12,24
2 Contact arrangement: A:1A; C:1C	7 Contact material: N:AgNi; NIL:AgSnO ₂
3 Enclosure: S: Sealed type; Z: Dust cover	8 Coil transient suppression: D: with diode; 2D: with two diodes; R: with resistance; DR: with diode and resistance; NIL: standard
4 Contact Current: 50A,80A,100A,150A	
5 Terminals: a: plug in type	

Contact Data

Contact Arrangement	1A (SPSTNO), 1C (SPDT(B-M))	
Contact Material	AgSnO ₂ , AgNi	
Contact Rating (relative)	1A	1C
	100A,150A/12VDC 50A/24VDC	NO: 50A/24VDC,100A,150A/12VDC NC: 50A/24VDC,80A,100A/12VDC
Max. Switching Power	1800W	
Max. Switching Voltage	76VDC	
	Max. Switching Current:150A	
Contact Resistance or Voltage drop	≤30mΩ ≤200mV (at Contact rating)	
Operation	Electrical	10 ⁵ Item 4.30 of IEC 61810-7
Life	Mechanical	10 ⁷ Item 4.31 of IEC 61810-7

Coil Parameter

Dash numbers	Coil voltage VDC		Coil resistance Ω ±10%	Pickup voltage VDC(max) (85% of rated voltage)	Release voltage VDC(min) (10% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
012-2600	12	15.6	50	7.9	1.2	2.9	≤10	≤5
024-2600	24	31.2	100	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.

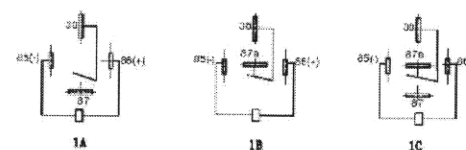
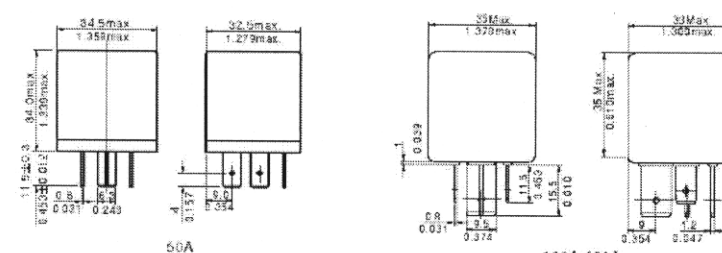
Operation condition

Insulation Resistance ¹⁾	100MΩ min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength ²⁾		
Between contacts	50Hz 750V	Item 6 of IEC 60255-5
Between contact and coil	50Hz 1000V	Item 6 of IEC 60255-5
Shock resistance	147m/s ² 11ms	IEC68-2-27 Test Ea
Vibration resistance	10~40Hz double amplitude 1.5mm	IEC68-2-6 Test Fc
Terminal strength	30N	IEC68-2-21 Test Ua2
Solderability	235°C ±2°C 3±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~125°C	
Relative Humidity	85% (at 40°C)	IEC68-2-3 Test Ga
Mass	65g	

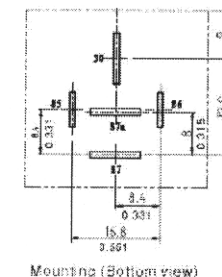
Note: 1) When testing, coil terminals should be connected, if coil transient suppression is installed in relay.

Dimensions

mm / inch



Wiring diagram (Bottom view)



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