20.5×15.4×22.1

NVF16

Features

- General-purpose relay with small size.
- Small volume and light weight.
- Operation temperature can achieve 125℃.
- Contact rating: 35A and 40A versions are available.

Ordering Information

NVF16 A Z 35 DC12V R

1 2 3 4 5 6

1 Part number: NVF16
2 Contact arrangement: A:1A;C:1C
3 Enclosure: S: Wash tight
Z: Flux proof

4 Contact rating:
12V:1A:35A/14VDC;1C:NO:35A/14VDC;NC:20A/14VDC
1A:40A/14VDC(Special clients)
24V:NO:15A,20A/28VDC;NC:10A/28VDC
5 Coil rated voltage(V):DC:12,24
6 Coil transient suppression: NIL:standard
R:with resistor
D:with diode

Contact Data

Contact Arrangement		1A(SPSTNO) 1C(SPDT(B-M))		
Contact Material		$AgSnO_2$		
Contact Rating (Resistive)		Coil rated voltage	1A	1C
		12V	35A/14VDC, 40A/14VDC	NO:35A/14VDC NC:20A/14VDC
		24V	15A/28VDC, 20A/28VDC	NO:15A/28VDC NC:10A/28VDC
Max. Switching Power		560W		
Max. Switching Voltage		30VDC	Max. Switching Current:40A	
Voltage Drop(Intial)		Typ. 50mV (at 10A)	Item 4.12 of IEC 61810-7	
Operation	Electrical	1×10^5	Item 4.30 of IEC 61810-7	
Life	Mechanical	1×10^7	Item 4.31 of IEC 61810-7	

Coil Parameter

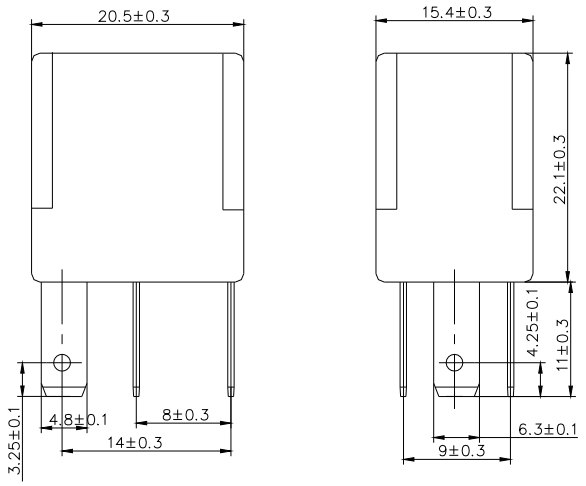
Dash numbers	Coil voltage VDC		Coil resistance Ω ±10%		With Suppression Rsistive	Pick-up voltage VDC(max) (65%of rated voltage)	Drop-out voltage VDC(min) (10% of rated voltage)	Coil power W	Operate time ms	Release time ms
	Rated	Max.	Without Rsistive	With Rsistive						
012-1500	12	16	96	84	680	7.8	1.2	1.5	≤10	≤10
024-1800	24	32	320	286	2700	15.6	2.4	1.8	≤10	≤10

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.

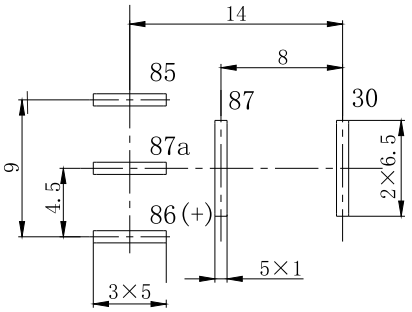
Characteristics

Insulation Resistance	100MΩ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength 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	Functional:98m/s² 11ms Destructive:980m/s² 11ms	Item 4.26 of IEC 61810-7
Vibration Resistance	Functional:10Hz~55Hz Double amplitude 1.5mm Destructive:10Hz~55Hz Double amplitude 1.5mm	Item 4.28 of IEC 61810-7
Terminals Strength	100N	Item 4.24 of IEC 61810-7
Ambient Temperature	-40℃~125℃	
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7
Mass	18g	Item 4.7 of IEC 61810-7

Dimensions mm

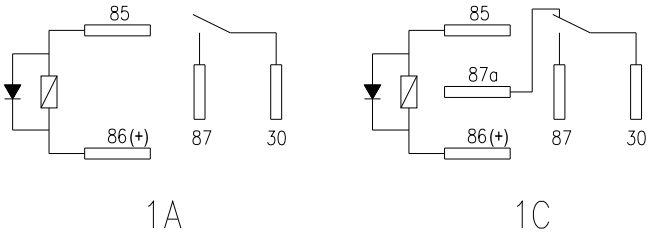


Dimensions



Note: A type without 87a.

Mounting (Bottom view)



Wiring diagram(Bottom view)