

# NVF16

### **Features**

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

### **Ordering Information**

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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,40A/14VDC; 1C:NO:35A/14VDC; NC:20A/14VDC 24V:1A:15A,20A/28VDC; 1C:NO:15A/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	1A(SPSTNO) 1C(SPDT(B-M))				
Contact Material	AgSnO <sub>2</sub>	AgSnO <sub>2</sub>				
	Coil rated voltage	1A	1C			
Contact Rating	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	30VDC Max. Switching Current:40A				
Voltage Drop(Intial)	Typ.: 50mV(at 10A	Typ.: 50mV(at 10A) Item 4.12 of IEC 61810-7				
Electrical Endurance	1×10 <sup>5</sup>	1×10 <sup>5</sup> Item 4.30 of IEC 61810-7				
Mechanical Endurance	1×10 <sup>7</sup>	1×10 <sup>7</sup> Item 4.31 of IEC 61810-7				

## **Coil Parameter**

	oltage DC		sistance 10%	With Suppression	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	Rsistive					
12	16	96	84	680	7.8	1.2	1.5	≤10	≤10
24	32	320	286	2700	15.6	2.4	1.8	≤10	≤10

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.

### **Characteristics**

Insulation Resistance	100MΩ min (at 500VDC)	Item 4.11 of IEC 61810-7	
Dielectric Strength Between Open Contacts Between Contact and Coil	500VAC 1min 500VAC 1min	Item 4.9 of IEC 61810-7	
Shock Resistance	Functional:98m/s <sup>2</sup> 11ms  Destructive:980m/s <sup>2</sup> 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  Terminal retention(pull & push): ≥100N Terminal resistance to bending(front & side): ≥10N		Item 4.24 of IEC 61810-7	
Ambient Temperature	-40℃~125℃		
Relative Humidity	5% to 85%	Item 4.16 of IEC 61810-7	
Weight (Approx.)	18g	Item 4.7 of IEC 61810-7	



