

NVF16

$20.5 \times 15.4 \times 22.1$

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

<u>NVF16 A Z 35 DC12V R</u>

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, 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(SPDT(B-M)) **Contact Material** $AgSnO_2$ Coil rated voltage 1C 1A NO:35A/14VDC 35A/14VDC, 40A/14VDC 12V NC:20A/14VDC Contact Rating NO:15A/28VDC 24V 15A/28VDC, 20A/28VDC NC:10A/28VDC Max. Switching Power 560W 30VDC Max. Switching Voltage Max. Switching Current:40A Voltage Drop(Intial) Typ.: 50mV(at 10A) Item 4.12 of IEC 61810-7 Electrical Endurance 1×10⁵ Item 4.30 of IEC 61810-7 1×10^{7} Item 4.31 of IEC 61810-7 Mechanical Endurance

Coil Parameter

Coil voltage VDC		Coil resistance Ω±10%		With Suppression	Pick-up voltage VDC(max)	Drop-out voltage VDC(min)	Coil	Operate time	Release time
Rated	Max.	Without Rsistive	With Rsistive	Rsistive	(65%of rated voltage)	(10% of rated voltage)	W	ms	ms
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 ² 11ms Destructive:980m/s ² 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	



