


$$23.5 \times 15.8 \times 25.7$$

NVFM

Features

- Switching capacity up to 35A.
- PC board mounting and QC mounting available.
- Suitable for automation system and automobile auxiliary etc.

Ordering Information

<u>NVFM</u>	<u>C</u>	<u>Z</u>	<u>20</u>	<u>DC12V</u>	<u>1.5</u>	<u>b</u>	<u>D</u>
1	2	3	4	5	6	7	8
1 Part number: NVFM						5 Coil rated voltage(V): DC:6,12,24,48	
2 Contact arrangement: A:1A (1.2W); C:1C(1.5W)						6 Coil power: 1.2:1.2W; 1.5:1.5W	
3 Enclosure: S:Wash tight ; Z:Flux proof						7 Terminals: a:QC type; b:PCB type	
4 Contact rating: 25A:NO:35A/14VDC; NC:25A/14VDC						8 Coil transient suppression: D:with diode	
NO:15A/28VDC; NC:12A/28VDC						R:with resistor	
20A:NO:25A/14VDC; NC:20A/14VDC						NIL:standard	
NO:12A/28VDC; NC:10A/28VDC							

Contact Data

Contact Arrangement	1A(SPSTNO) 1C(SPDT(B-M))	
Contact Material	AgSnO ₂	
Contact Rating	NO:25A/14VDC, NC:20A/14VDC NO:35A/14VDC, NC:25A/14VDC NO:15A/28VDC, NC:12A/28VDC NO:12A/28VDC, NC:10A/28VDC	
Max. Switching Power	490W	
Max. Switching Voltage	30VDC	Max. Switching Current:35A
Voltage Drop(Initial)	Typ.: 50mV(at 10A)	Item 4.12 of IEC 61810-7
Electrical Endurance	1×10^5	Item 4.30 of IEC 61810-7
Mechanical Endurance	1×10^7	Item 4.31 of IEC 61810-7

Coil Parameter

Coil voltage VDC		Coil resistance $\Omega \pm 10\%$	Pick-up voltage VDC(max) (70% of rated voltage)	Drop-out voltage VDC(min) (10% of rated voltage)	Coil power W	Operate time ms	Release time ms
Rated	Max.						
6	7.8	30	4.2	0.6	1.2	≤ 10	≤ 7
12	15.6	120	8.4	1.2			
24	31.2	480	16.8	2.4			
48	62.4	1920	33.6	4.8			
6	7.8	24	4.2	0.6	1.5	≤ 10	≤ 7
12	15.6	96	8.4	1.2			
24	31.2	384	16.8	2.4			
48	62.4	1536	33.6	4.8			

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.

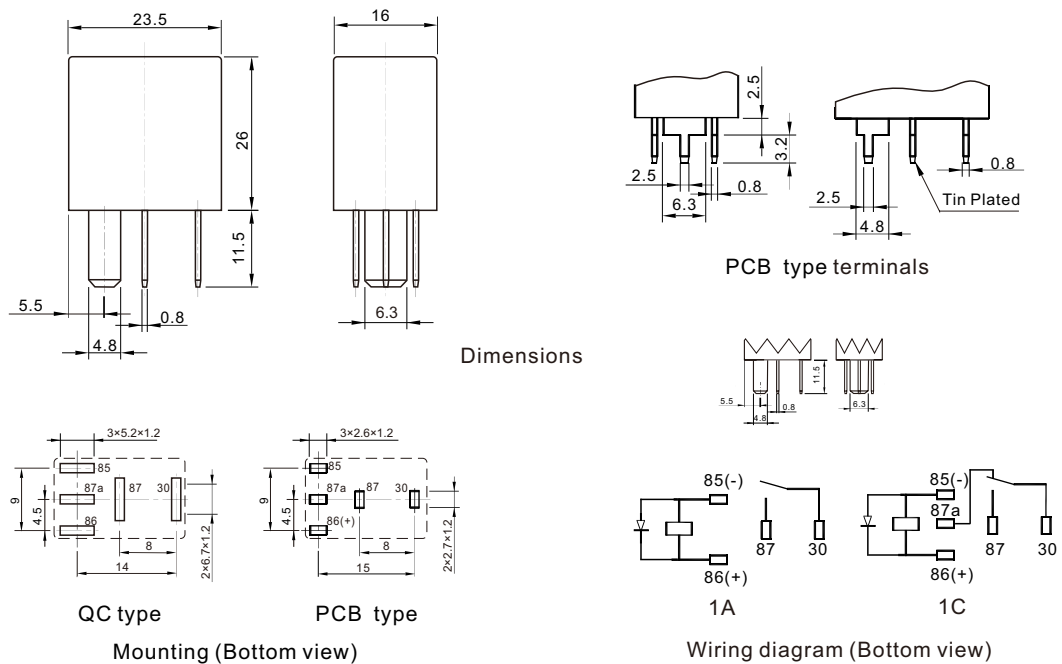
Characteristics

Insulation Resistance ¹⁾	100MΩ min (at 500VDC)	Item 4.11 of IEC 61810-7
Dielectric Strength ¹⁾ Between Open Contacts Between Contact and Coil	500VAC 1min 1000VAC 1min	Item 4.9 of IEC 61810-7
Shock Resistance	98m/s ² 11ms	Item 4.26 of IEC 61810-7
Vibration Resistance	10Hz~40Hz Double amplitude 1.27mm	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.)	18.5g	Item 4.7 of IEC 61810-7

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

Dimensions

mm



Remark: 1. It is based on customer demand to have lead pin hole or not.

2. In case of no tolerance shown in outline dimension: outline dimension ≤1mm, tolerance should be ±0.2mm ;
outline dimension >1mm and ≤5mm, tolerance should be ±0.3mm; outline dimension >5mm, tolerance should be ±0.4mm.

Reference Data

