FORWARD RELAYS

37×16.5×17.1

N V 2 R

Patent No. 95221385.0

Features

- Small size, light weight.
- Withstands high temperature, operational under 105℃ ambient temperature.
- Heavy contact load switching current up to 10A.

Contact Data

Contact Arrangement		2×1C (H-Bridge)	
Contact Material		Ag·SnO_2 Ag·SnO_2·In_2O_3	
Contact Rating (resistive)		10A/14VDC	
Max. Switching Power		140W	
Max. Switching Voltage		24VDC	Max. Switching Current:10A
Contact Resistance or Voltage drop		≤50mΩ	Item 3.12 of IEC255-7
Operation life	Electrical	10^5	Item 3.30 of IEC255-7
	Mechanical	10^7	Item 3.31 of IEC255-7

Coil Parameter

Coil voltage VDC		Coil resistance Ω±10%	Pickup voltage VDC(max)	release voltage VDC(min)	Coil power consumption W	Operate Time ms	Release Time ms
Rated	Max.						
12	14.4	225	6.8	1.2	0.64	⩽10	⩽5
		155	6.0	0.9	0.93		

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	1000MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength		
Between contacts	50Hz 1000V	Item 6 of IEC255-5
Between contact and coil	50Hz 1000V	Item 6 of IEC255-5
Shock resistance	100m/s^2 11ms	IEC68-2-27 Test Ea method 1
Vibration resistance	10~40Hz double amplitude 1.27mm	IEC68-2-6 Test Fc
Terminals strength	10N	IEC68-2-21 Test Ua1
Solderability	230℃ ±2℃ 10 ±0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~105℃	
Relative Humidity	85% (at 20℃)	IEC68-2-3Test Ca
Mass	25g	

Qualification inspection:

Perform the qualification test as specified in the table Ⅳ of IEC255-19-1 and minimum sample size 24.

Ordering Information

NV2R	Z	DC12V	0.64

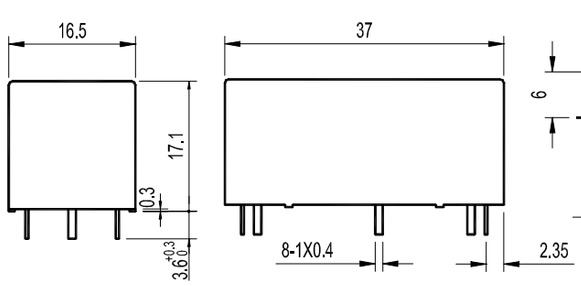
Coil Power Consumption:0.64:0.64W,0.93:0.93W

Coil rated DC Voltage
12V

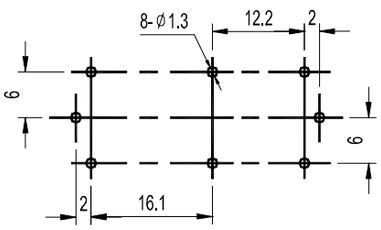
S：Sealed type，Z： Dust Cover

Part number：NV2R

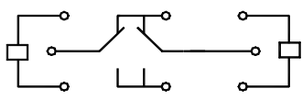
Dimensions (Unit: mm)



Dimensions



Mounting (Bottom views)



Wiring diagram
(Bottom views)

mm	inch
0.3	0.012
0.4	0.016
1.0	0.039
1.3	0.051
2	0.079
2.35	0.093
3.6	0.142
6	0.236
12.2	0.480
16.1	0.634
16.5	0.650
17.1	0.673
37	1.457

NOTES 1).Dimensions are in millimeter.

2).Inch equivalents are given for general information only.

Reference Data