



37×16.5×17.1

NV2R

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.	
Ordering Information	
<u>NV2R</u>	<u>S</u>
<u>DC12V</u>	<u>0.64</u>
1	2
3	4
1 Part number: NV2R	
2 Enclosure: S: Sealed type; Z: Dust cover	
3 Coil rated Voltage(V): DC: 12	
4 Coil power consumption: 0.64:0.64W; 0.93:0.93W	

Contact Data

Contact Arrangement	2 × 1C (2 × SPDT(B-M)) (H-Bridge)	
Contact Material	Ag·SnO ₂ Ag·SnO ₂ ·In ₂ O ₃	
Contact Rating (resistive)	10A/14VDC	
Max. Switching Power	140W	
Max. Switching Voltage	24VDC	
Contact Resistance or Voltage drop	≤50mΩ	
Operation life	Electrical	10 ⁵
	Mechanical	10 ⁷
	Max. Switching Current:10A	
	Item 3.12 of IEC255-7	
	Item 3.30 of IEC255-7	
	Item 3.31 of IEC255-7	

Coil Parameter

Dash numbers	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.						
012-640	12	14.4	225	6.8	1.2	0.64	≤10	≤5
012-930	12	14.4	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.

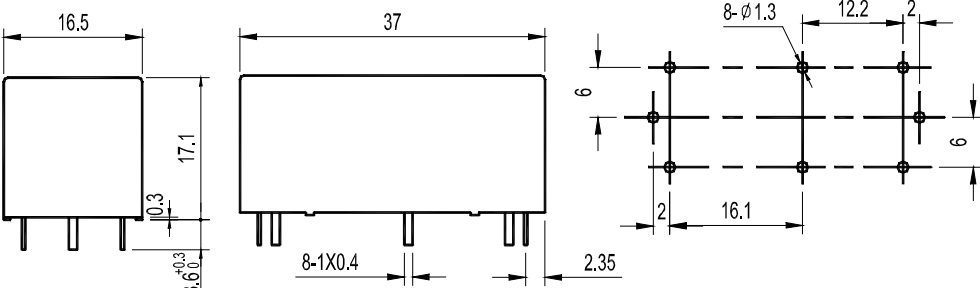
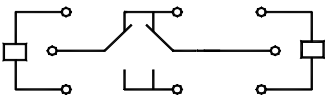
2.Pickup and release voltage are for test purposes only and are not to be used as design criteria.

Operation condition

Insulation Resistance	1000M Ω 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
Vibration resistance	10~40Hz double amplitude 1.27mm	IEC68-2-6 Test Fc
Terminals strength	10N	IEC68-2-21 Test Ua1
Solderability	235℃ $\pm$ 2℃ 3 $\pm$ 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.

Dimensions (Unit: mm)		
 Dimensions	Mounting (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
 Wiring diagram (Bottom views)		
NOTES 1).Dimensions are in millimeter. 2).Inch equivalents are given for general information only.		

Reference Data
Operation Time Time(m sec) APPLIED COIL VOLTAGE(% of Rated Voltage)