



37×16.5×17.1

NV2R

Patent No.: 95221385.0

Features	
• Small size, light weight.	
• Withstands high temperature, operating under 105°C ambient temperature.	
• Heavy contact load switching current up to 10A.	

Ordering Information	
NV2R S DC12V 0.64	
1 Part number: NV2R	3 Coil rated voltage(V): DC: 12
2 Enclosure: S: Sealed type; Z: Dust cover	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	AgSnO ₂ AgSnO ₂ In ₂ O ₃
Contact Rating (resistive)	10A/14VDC
Max. Switching Power	140 W
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								
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	1000MΩ min (at 500VDC)	Item 7 of IEC255-5
Dielectric Strength	Between contacts	Item 6 of IEC255-5
	Between contact and coil	
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°C ± 2°C 3 ± 0.5s	IEC68-2-20 Test Ta method 1
Ambient Temperature	-40~105°C	
Relative Humidity	85% (at 20°C)	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	mm /inch
<p>Dimensions</p>	
<p>Mounting(Bottom view)</p>	
<p>Wiring diagram(Bottom view)</p>	
<p>NOTES 1).Dimensions are in millimeters. 2).Inch equivalents are given for general information only.</p>	

