

# NCV



22.7 × 15.2 × 16.2

Features	
▪	Low profile.
▪	Low temperature rise.
▪	Suitable for automation system and automobile auxiliary etc.

Ordering Information	
<b>NCV C S 25 D</b> 1 2 3 4 5	
1 Part number: NCV 2 Contact arrangement: A:1A; C:1C; 3 Enclosure: S: Sealed type; Z: Dust cover 4 Contact current: NO:25A/14VDC;NC:20A/14VDC	5 Coil transient suppression: D:with diode; R:with resistance; NIL: standard

Contact Data	
Contact Arrangement	1A(SPSTNO), 1C (SPDT(B-M))
Contact material	AgSnO <sub>2</sub> AgNi
Contact Rating (resistive)	NO: 25A/14VDC,NC:20A/14VDC
Max. Switching Power	350W
Max. Switching voltage	75VDC Max. Switching Current :25A
Contact resistance or Voltage drop	≤50mΩ Item 3.12 of IEC 60255-7
Operation life	Electrical 10 <sup>5</sup> Item 3.30 of IEC 60255-7
	Mechanical 10 <sup>7</sup> Item 3.31 of IEC 60255-7

Coil Parameter								
Dash numbers	Coil voltage VDC		Coil resistance Ω ± 10%	Pick up voltage VDC(max) (58%of rated voltage)	Release voltage VDC(min) (5% of rated voltage)	Coil power consumption W	Operate Time ms	Release Time ms
	Rated	Max.						
012-800	12	16	180	7	0.6	0.8	<10	≤10

**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	20MΩ min (at 500VDC)	Item 7 of IEC 60255-5
Dielectric Strength	50Hz 500V	Item 6 of IEC 60255-5
Between contacts	50Hz 500V	Item 6 of IEC 60255-5
Between contact and coil		
Shock Resistance	Function: 100m/s <sup>2</sup> 11ms Survival:1000m/s <sup>2</sup> 11ms	IEC68-2-27 test Ea
Vibration Resistance	Function: 10Hz~100Hz 44.1m/s <sup>2</sup> Survival:100Hz~500Hz 44.1m/s <sup>2</sup>	IEC68-2-6 test Fc
Terminals strength	10N	IEC68-2-21 test Ua1
Ambient Temperature	-40℃~105℃	
Relative Humidity	95% (45℃)	IEC68-2-3 test Ca
Mass	15g	

### Dimensions mm /inch

The technical drawings include two views of the relay's dimensions. The first view shows a top-down perspective with dimensions: 22.6max. (0.890max.) for the width, 15.2max. (0.598max.) for the height, 4.8 (0.189) for the terminal width, and 0.8 (0.031) for the terminal spacing. The second view shows a side profile with dimensions: 16.2 (0.638) for the height, 11±0.5 (0.433±0.020) for the terminal height, 0.8 (0.031) for the terminal width, and 6.3 (0.248) for the terminal spacing.

Below the dimensions are two wiring diagrams labeled 1A and 1C, showing the internal contact connections. The 1A diagram shows a single contact with a common terminal and a normally open terminal. The 1C diagram shows a double contact with a common terminal and two normally open terminals.

At the bottom, there are two diagrams labeled 'Mounting (Bottom view)' and 'Wiring diagram (Bottom view)'. The mounting diagram shows the relay's footprint with dimensions: 9 (0.354) for the height, 8 (0.315) for the terminal width, and 14 (0.551) for the terminal spacing. The wiring diagram shows the electrical connections for the 1A and 1C configurations, with a positive terminal (+) indicated.

**NOTES**  
 1).Dimensions are in millimeters.  
 2).Inch equivalents are given for general information only.