



»» Features

- Low profile PCB automotive relay.
- High rating 20A/14VDC ; motor load 5A/14VDC ; maximum carry current up to 35A.
- Optional SPNO, SPDT, DPNO contact configurations.
- General purpose application for motor control for power window, sunroof, door lock, and flasher control, etc.
- Complies with RoHS-Directive 2011/65/EU, and ELV-Directive 2000/53/EC.

»» Type List

Terminal style	Contact form	Designation (provided with)		
		Flux tight	Sealed type	Sealed type washable
PCB terminal	1A (SPNO)	895-1A-C	895-1A-V	895-1A-S
		895-1A-C-H	895-1A-V-H	895-1A-S-H
	1C (SPDT)	895-1C-C	895-1C-V	895-1C-S
		895-1C-C-H	895-1C-V-H	895-1C-S-H
	2A (DPNO)	895-2A-C	895-2A-V	895-2A-S

»» Ordering Information

895 - 1A - C -
 1 2 3 4 5

- | | |
|---|---|
| 1. 895 -- Basic series designation | V -- Sealed type |
| | S -- Sealed type washable |
| 2. 1A -- Single pole normally open | |
| 1C -- Single pole double throw | 4. Blank -- Standard type |
| 2A -- Single pole normally open with two N.O. terminals | H -- Enlarge contact spacing |
| 3. C -- Flux tight | 5. <input type="checkbox"/> -- Coil voltage (please refer to the coil rating data for the availability) |

»» Contact Rating

◆ 1P

Resistive load	NC : 10A 14VDC, NO : 20A 14VDC, On 1s / Off 9s, 100K ops.
Motor load	Inrush 25A, steady state 5A 14VDC, On 0.5s / Off 9.5s, 200K ops.
Max. carry current	35A/2min., 25A/1hr (25°C nominal voltage) 30A/2min., 20A/1hr (85°C nominal voltage)

◆ 2A

Lamp load	2 NO 21WX6 Lamps 14VDC
Max. carry current	2X6A (25°C nominal voltage) 2X4A (85°C nominal voltage)

»» Coil Rating (DC)

◆ 1P

Rated voltage (V)	Rated current ±10 % at 23°C (mA)	Coil resistance ±10 % at 23°C (Ω)	Max. continuous voltage at 85°C ⁽¹⁾	Pick up voltage(Max.) at 23°C	Drop out voltage(Min.) at 23°C	Power consumption at rated voltage
5	128	39	133% of rated voltage	60% of rated voltage	8% of rated voltage	approx. 0.64W
9	71.1	127				
12	53.3	225				
24	26.7	900				

Note : (1) Without continuous contact current.

◆ 2A

Rated voltage (V)	Rated current ±10 % at 23°C (mA)	Coil resistance ±10 % at 23°C (Ω)	Max. continuous voltage at 85°C ⁽¹⁾	Pick up voltage(Max.) at 23°C	Drop out voltage(Min.) at 23°C	Power consumption at rated voltage
9	111.1	81	133% of rated voltage	60% of rated voltage	8% of rated voltage	approx. 1.0W
12	83.3	144				

Note : (1) Without continuous contact current.

◆ 1P(-H)

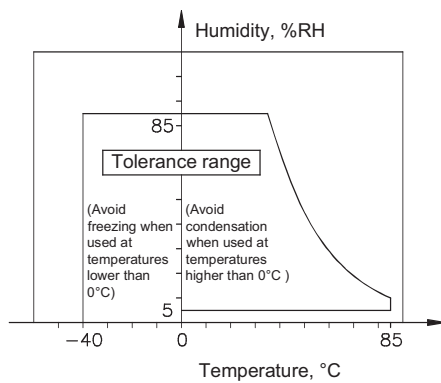
Rated voltage (V)	Rated current ±10 % at 23°C (mA)	Coil resistance ±10 % at 23°C (Ω)	Max. continuous voltage at 85°C ⁽¹⁾	Pick up voltage(Max.) at 23°C	Drop out voltage(Min.) at 23°C	Power consumption at rated voltage
12	67.4	178	133% of rated voltage	60% of rated voltage	8% of rated voltage	approx. 0.8W
24	33.3	720				

Note : (1) Without continuous contact current.

»» Specification

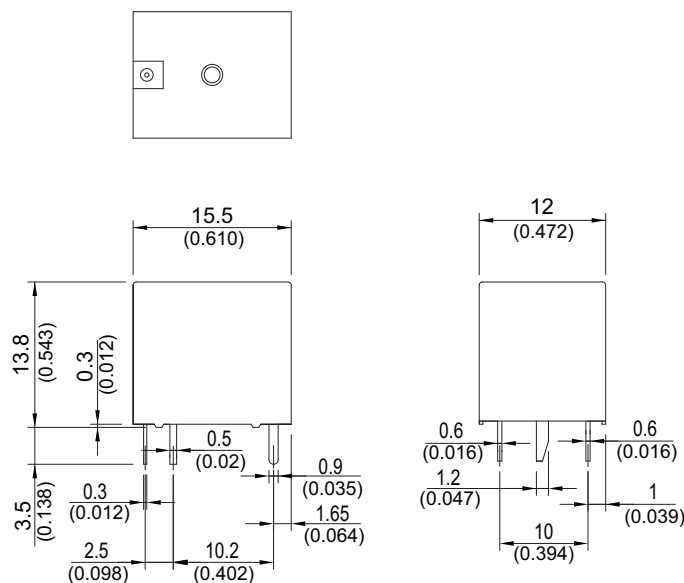
Contact material	AgSnO alloy	
Contact voltage drop ⁽¹⁾	Typ. 80mV at 10A	
Operate time ⁽¹⁾	10ms Max.	
Release time ⁽¹⁾	5ms Max.	
Insulation resistance ⁽¹⁾	100MΩ Min. (DC 500V)	
Dielectric strength ⁽¹⁾	Between open contact	: AC 500V , 50/60Hz 1 min.
	Between contact and coil	: AC 500V , 50/60Hz 1 min.
Vibration resistance	Operating extremes	10~500Hz , 4.4G
	Damage limits	10~500Hz , 4.4G
Shock resistance	Operating extremes	10G
	Damage limits	100G
Life expectancy	Mechanical	10,000,000 ops. (frequency 18,000 ops./hr)
	Electrical	100,000 ops. (for 2A) (frequency 240 ops./hr)
Operating ambient temperature	-40~+85°C (no freezing)	
Weight	Approx. 6 g	

- Note :
- (1) Initial value. Operate and release time excluding contact bounce.
 - (2) Unless otherwise specified, all tests are under room temperature and humidity.
 - (3) Consider the heat of PCB is necessary, please check the actual condition of PCB.
 - (4) Applying no diode to this relay. The life expectancy will be lower when a diode is used. To use a varistor (ZNR) could absorb the coil surge of relay that is recommended.
 - (5) Do not use the relay exceeding the coil rating, contact rating and life expectancy, or this may cause the risk of overheating.
 - (6) To assure optimum performance, avoid the relay from dropping, hitting, or other unnecessary shocks.
 - (7) Do not switch the contacts without any load as the contact resistance may become increased rapidly.
 - (8) Flux tight version is recommended. If there is cleaning process and sealed type is selected, the vent-hole should be removed after the process.
 - (9) Usage, transport and storage conditions
 - 1. Temperature: $-40 \sim +85^{\circ}\text{C}$
 - 2. Humidity: 5 to 85% R.H.
 - 3. Pressure: 86 to 106 kPa
 - Furthermore, the humidity range varies with the temperature. So, use relays within the range indicated in the graph below.

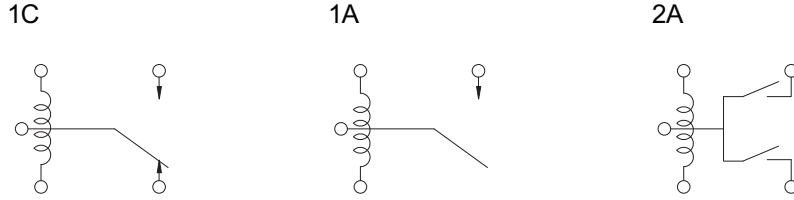


- (10) Please contact Song Chuan for the detailed information.

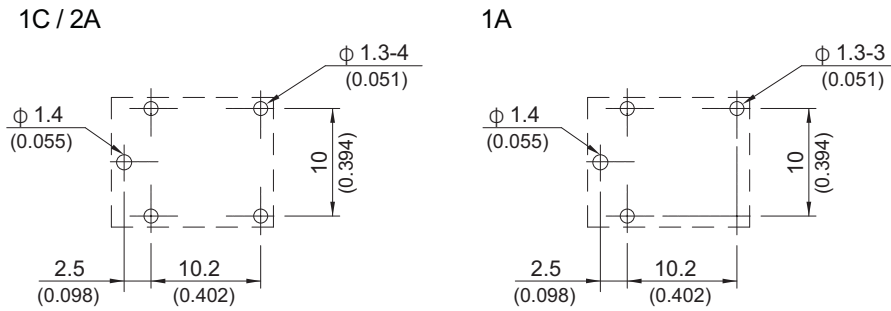
»» Outline Dimensions



»» Wiring Diagram BOTTOM VIEW



»» PC Board Layout BOTTOM VIEW



»» Engineering Data

