



»» Features

- High current micro ISO automotive relay.
- SPNO contact configuration.
- Switches up to 35A resistive load, 100,000 ops.
- Dust cover, flux-free type and sealed type are available.
- Optional resistor or diode for coil transient suppression.
- Complies with RoHS-Directive 2011/65/EU and ELV-Directive 2000/53/EC.

»» Type List

Terminal style	Contact form	Designation (provided with)	Enclosure style		
			Dust cover	Flux tight	Sealed type washable
Socket terminal	1A (SPNO)	-----	611-1AH-D	611-1AH-C	611-1AH-S
		Resistor	611-1AH-D-R1	611-1AH-C-R1	611-1AH-S-R1
		Diode	611-1AH-D-D1	611-1AH-C-D1	611-1AH-S-D1

»» Ordering Information

611 - 1A H - D -
 1 2 3 4 5 6

- | | |
|------------------------------------|---|
| 1. 611 -- Basic series designation | 5. Blank -- Standard type |
| 2. 1A -- Single pole normally open | R1 -- Coil parallel with 1/2W resistor for 12V 680Ω |
| 3. H -- Contact material AgSnO | D1 -- Coil parallel with diode 1N4007 the diode anode on # 85 terminal |
| 4. D -- Dust cover | 6. <input type="checkbox"/> -- Coil voltage (please refer to the coil rating data for the availability) |
| C -- Flux tight | |
| V -- Sealed type | |
| S -- Sealed type washable | |

»» Contact Rating

Resistive load	35A 14VDC ; ON 2s / OFF 2s ; -40~+125°C
Motor load	Inrush 80A, steady 33A 14VDC ; ON 3s / OFF 4s ; -40~+125°C
Lamp load	Inrush 150A, steady 30A 14VDC ; ON 3s / OFF 4s ; -40~+125°C

»» Coil Rating (DC)

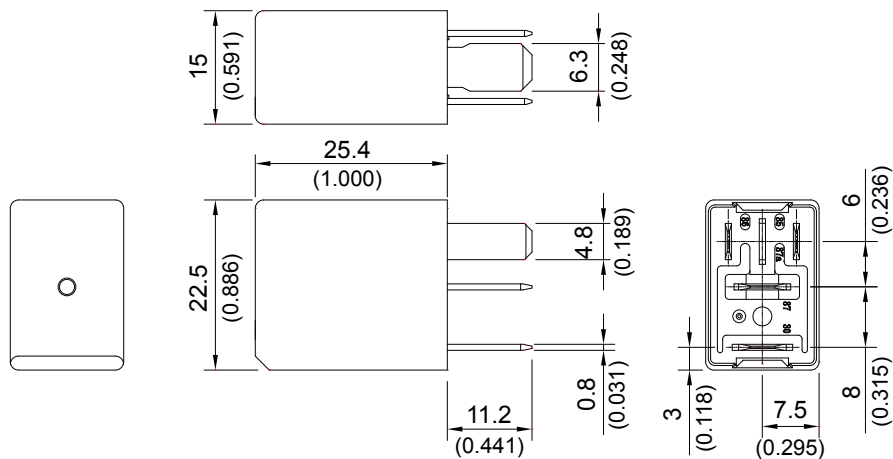
Rated voltage (V)	Rated current ±10 % at 23°C (mA)	Coil resistance ±10 % at 23°C (Ω)	Max. continuous voltage at 85°C	Pick up voltage(Max.) at 23°C	Drop out voltage(Min.) at 23°C	Power consumption at rated voltage
12	97.5	123	16V	7.8V	1.2V	approx. 1.2W

»» Specification

Contact material	AgSnO alloy	
Contact voltage drop ⁽¹⁾	Typ. 40mV at 10A	
Operate time ⁽¹⁾	10ms Max.	
Release time ⁽¹⁾	10ms Max.	
Insulation resistance ⁽¹⁾	20MΩ 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 , 5.0G
	Damage limits	10~500Hz , 5.0G
Shock resistance	Operating extremes	10G
	Damage limits	100G
Life expectancy	Mechanical	1,000,000 operations (frequency 18,000 operations/hr)
	Electrical	100,000 operations
Operating ambient temperature	-40~+125°C (no freezing)	
Weight	Approx. 20g	

Note : (1) Initial value. Operate and release time excluding contact bounce.

»» Outline Dimensions



TOLERANCE:
 LESS THAN: 1(0.039) ±0.1(0.004)
 5(0.197) ±0.3(0.012)
 20(0.787) ±0.5(0.020)
 MORE THAN: 20(0.787) ±1(0.039)

»» Wiring Diagram

BOTTOM VIEW

