

832AM



»» Features

- Heavy duty 20/30A automotive PCB Relay.
- High dielectric strength up to 4000Vrms.
- SPNO, SPDT contact configurations.
- Dust cover, flux-free and sealed type.
- Complies with RoHS-Directive 2011/65/EU and ELV-Directive 2000/53/EC.

»» Type List

Terminal style	Contact form	Designation		
		Flux tight	Sealed type	Sealed type washable
PCB terminal	1A (SPNO)	832AM-1A-C	832AM-1A-V	832AM-1A-S
	1C (SPDT)	832AM-1C-C	832AM-1C-V	832AM-1C-S

»» Ordering Information

832 A M - 1A - C
 1 2 3 4 5 6

- | | |
|--|---|
| 1. 832 -- Basic series designation | 1C -- Single pole double throw |
| 2. A -- Different type (provided with 1 common terminal) | 5. C -- Flux tight |
| 3. M -- Automotive relay | V -- Sealed type |
| 4. 1A -- Single pole normally open | S -- Sealed type washable |
| | 6. <input type="checkbox"/> -- Coil voltage (please refer to the coil rating data for the availability) |

»» Contact Rating

Load type	1A	1C	
		NO	NC
Resistive load	30A 14VDC	20A 14VDC	10A 14VDC

»» Coil Rating (DC)

Rated voltage (V)	Rated current $\pm 10\%$ at 23°C (mA)	Coil resistance $\pm 10\%$ 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	93	97	133 % of rated voltage	75 % of rated voltage	10 % of rated voltage	approx. 0.93W
12	77	155				
24	36	660				

Note : (1) Without continuous contact current.

»» Specification

Contact material	AgSnO alloy	
Contact voltage drop ⁽¹⁾	Typ. 50mV at 10A	
Operate time ⁽¹⁾	15ms Max.	
Release time ⁽¹⁾	10ms Max.	
Insulation resistance ⁽¹⁾	100MΩ Min. (DC 500V)	
Dielectric strength ⁽¹⁾	Between open contact	: AC 500V , 50/60Hz 1min.
	Between contact and coil	: AC 500V , 50/60Hz 1min.
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. (frequency 1,200 ops./hr)
Operating ambient temperature	-55~+85°C (no freezing)	
Weight	Approx. 27g	

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.

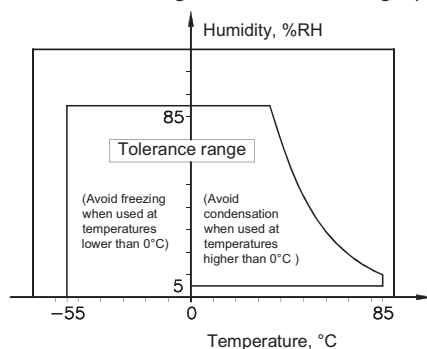
(6) To assure optimum performance, avoid the relay from dropping, hitting, or other unnecessary shocks.

(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

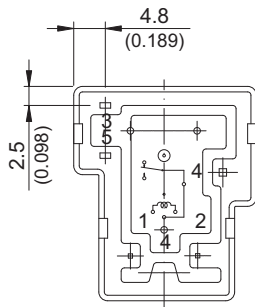
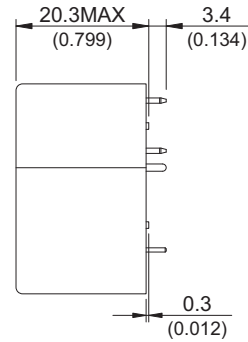
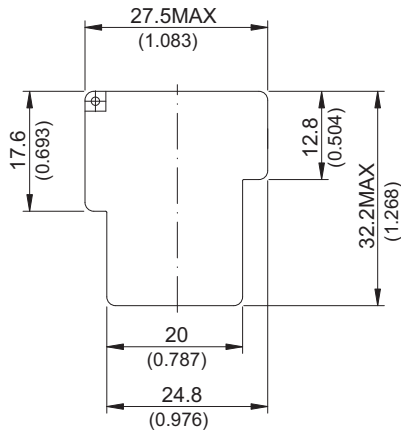
- 1. Temperature: -55~+85°C
- 2. Humidity: 5 to 85% R.H.
- 3. Pressure: 86 to 106 kPa
- Furthermore, the humidity range varies with the temperature. So, use relays within the range indicated in the graph below.



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

832AM

»» Outline Dimensions

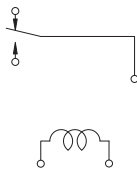


TOLERANCE:
 LESS THAN: 1(0.039) ±0.1(0.004)
 5(0.197) ±0.3(0.012)
 20(0.787) ±0.5(0.020)
 MORE THAN: 20(0.787) ±1(0.039)

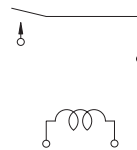
»» Wiring Diagram

BOTTOM VIEW

1C



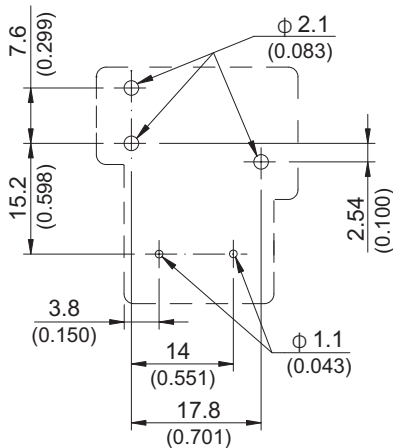
1A



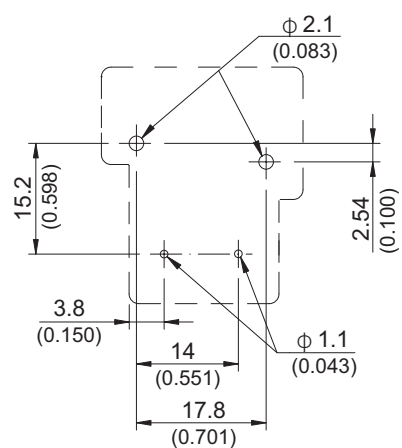
»» PC Board Layout

BOTTOM VIEW

1C



1A



»» Engineering Data

