



»» Features

- High power 40A automotive relay.
- USA & European footprint are both available.
- Open frame, dust cover, flux-free type, and sealed washable type are available.
- Offering SPNC, SPNO, SPDT of contact configurations.

»» Type List

◆ Standard type

| Terminal style | Contact form | Designation (enclosure) | | | |
|--------------------------------------------------------|--------------|-------------------------|------------|-------------|----------------------|
| | | Open type | Flux tight | Sealed type | Sealed type washable |
| PCB terminal (Footprint for European) | 1A (SPNO) | 822E-1A | 822E-1A-C | 822E-1A-V | 822E-1A-S |
| | 1B (SPNC) | 822E-1B | 822E-1B-C | 822E-1B-V | 822E-1B-S |
| | 1C (SPDT) | 822E-1C | 822E-1C-C | 822E-1C-V | 822E-1C-S |
| PCB terminal (Footprint for USA) | 1A (SPNO) | 822U-1A | 822U-1A-C | 822U-1A-V | 822U-1A-S |
| | 1B (SPNC) | 822U-1B | 822U-1B-C | 822U-1B-V | 822U-1B-S |
| | 1C (SPDT) | 822U-1C | 822U-1C-C | 822U-1C-V | 822U-1C-S |
| PCB terminal (Footprint for USA different terminal) | 1A (SPNO) | ----- | 822UA-1A-C | 822UA-1A-V | 822UA-1A-S |
| | 1B (SPNC) | | 822UA-1B-C | 822UA-1B-V | 822UA-1B-S |
| | 1C (SPDT) | | 822UA-1C-C | 822UA-1C-V | 822UA-1C-S |

◆ High sensitivity type

| | | | | | |
|--------------------------------------------------------|-----------|----------|-------------|-------------|-------------|
| PCB terminal (Footprint for European) | 1A (SPNO) | 822EN-1A | 822EN-1A-C | 822EN-1A-V | 822EN-1A-S |
| | 1B (SPNC) | 822EN-1B | 822EN-1B-C | 822EN-1B-V | 822EN-1B-S |
| | 1C (SPDT) | 822EN-1C | 822EN-1C-C | 822EN-1C-V | 822EN-1C-S |
| PCB terminal (Footprint for USA) | 1A (SPNO) | 822UN-1A | 822UN-1A-C | 822UN-1A-V | 822UN-1A-S |
| | 1B (SPNC) | 822UN-1B | 822UN-1B-C | 822UN-1B-V | 822UN-1B-S |
| | 1C (SPDT) | 822UN-1C | 822UN-1C-C | 822UN-1C-V | 822UN-1C-S |
| PCB terminal (Footprint for USA different terminal) | 1A (SPNO) | ----- | 822UAN-1A-C | 822UAN-1A-V | 822UAN-1A-S |
| | 1B (SPNC) | | 822UAN-1B-C | 822UAN-1B-V | 822UAN-1B-S |
| | 1C (SPDT) | | 822UAN-1C-C | 822UAN-1C-V | 822UAN-1C-S |

»» Ordering Information

822 E N - 1C - C
 1 2 3 4 5

- | | |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <p>1. 822 -- Basic series designation</p> <p>2. E -- Europe footprint U -- USA footprint UA -- USA different terminal</p> <p>3. Blank -- standard type N -- High sensitivity type</p> | <p>4. 1A -- Single pole normally open 1B -- Single pole normally close 1C -- Single pole double throw</p> <p>5. Blank -- Open type C -- Flux tight V -- Sealed type S -- Sealed type washable</p> |
|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|

»» Contact Rating

| Resistive load | 1A | 1B | 1C |
|----------------|-----------|-----------|-------------------------------|
| | 40A 14VDC | 30A 14VDC | NC: 20A 14VDC ; NO: 40A 14VDC |

»» Coil Rating (DC)

◆ Standard type

| 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 |
|-------------------|----------------------------------------|--------------------------------------------------|-------------------------------------------------|-------------------------------|--------------------------------|------------------------------------|
| 6 | 315 | 19 | 130 % of rated Voltage | 3.3 | 0.6 | approx. 1.6W |
| 9 | 180 | 50 | | 5.0 | 0.9 | |
| 12 | 133 | 90 | | 6.8 | 1.2 | |
| 24 | 66 | 362 | | 13.9 | 2.4 | |

Note:(1)Continuous contact current at 20A.

◆ High sensitivity type

| 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 |
|-------------------|----------------------------------------|--------------------------------------------------|-------------------------------------------------|-------------------------------|--------------------------------|------------------------------------|
| 6 | 200 | 30 | 130 % of rated Voltage | 75 % of rated Voltage | 10 % of rated Voltage | approx. 1.2W |
| 9 | 133 | 67.5 | | | | |
| 12 | 100 | 120 | | | | |
| 24 | 50 | 480 | | | | |

Note:(1)Continuous contact current at 20A.

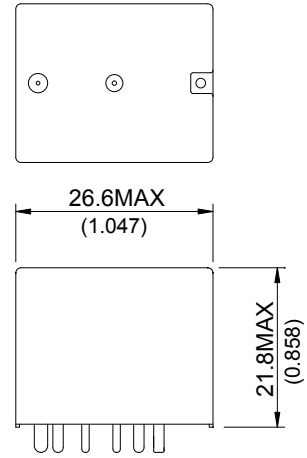
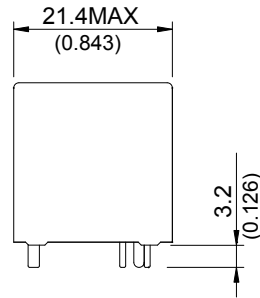
»» Specification

| | | |
|--------------------------------------|-----------------------------------|-----------------------------------------------------------|
| Contact material | AgSnO alloy | |
| Contact voltage drop ⁽¹⁾ | Typ. 40mV at 10A | |
| Insulation resistance ⁽¹⁾ | 50M Ω Min. (DC 500V) | |
| Operate time ⁽¹⁾ | 5ms Max. | |
| Release time ⁽¹⁾ | 4ms Max. | |
| Dielectric strength ⁽¹⁾ | Between open contact | : AC 500V , 50/60Hz 1 min. |
| | Between contact and coil | : AC 500V , 50/60Hz 1 min. |
| Vibration resistance | 10~55Hz , amplitude 1.5 mm | |
| Shock resistance | 20G , 11ms , half sine wave pulse | |
| Life expectancy | Mechanical | 10,000,000 operations (frequency 18,000 operations/hr) |
| | Electrical | 100,000 operations (frequency 1,200 operations/hr) |
| Operating ambient temperature | -40~+85 °C (no freezing) | |
| Storage temperature | -40~+130 °C | |
| Weight | Approx. 17.5g | |

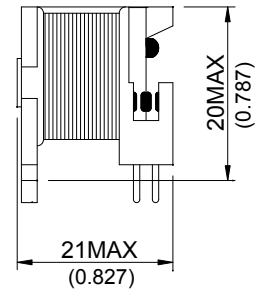
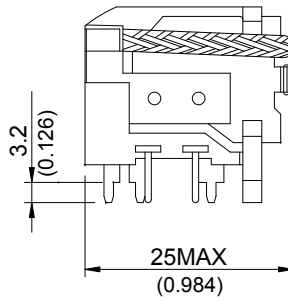
Note : (1) initial value

»» Outline Dimensions

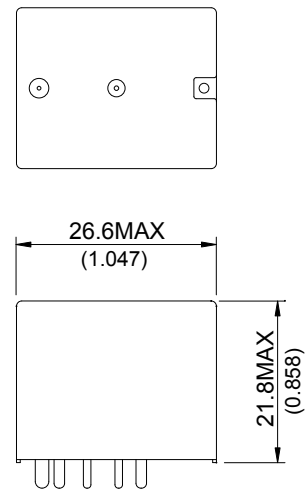
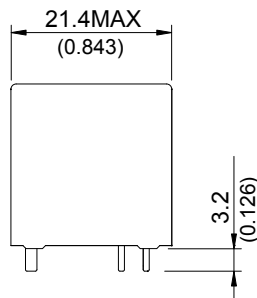
◆ 822E,UA



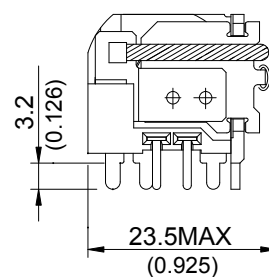
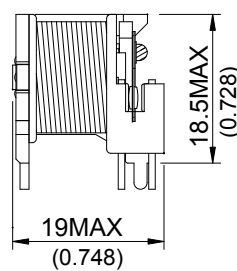
◆ 822E OPEN



◆ 822U



◆ 822U OPEN

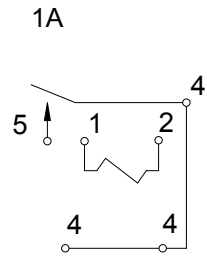
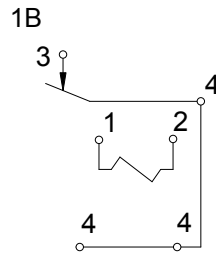
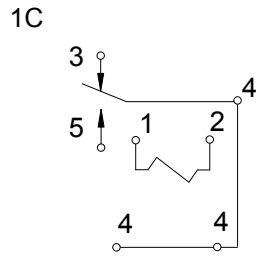


822

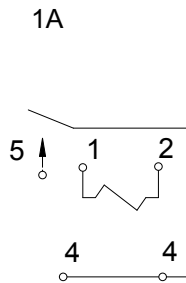
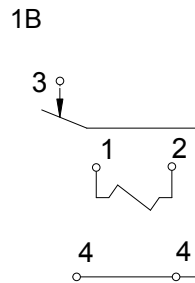
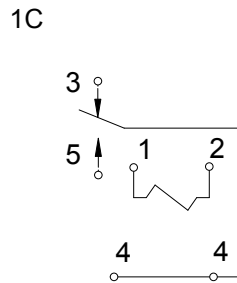
»» Wiring Diagram

BOTTOM VIEW

◆822E,822UA,822U(OPEN)



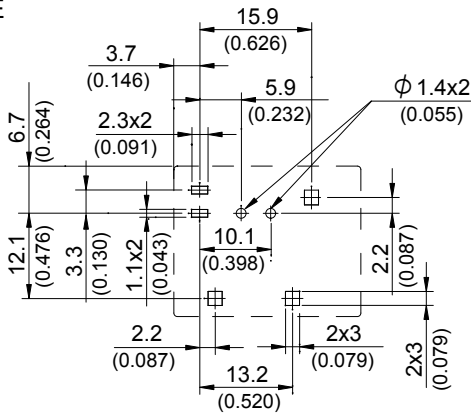
◆822U



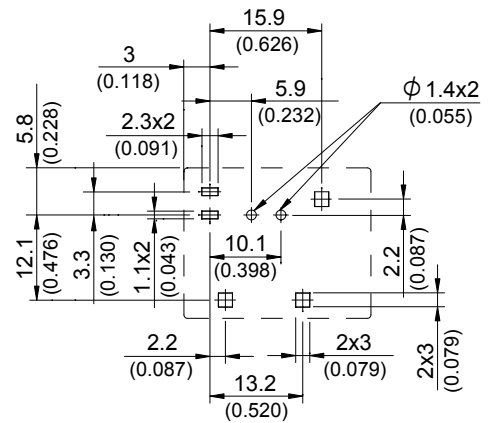
»» PC Board Layout

BOTTOM VIEW

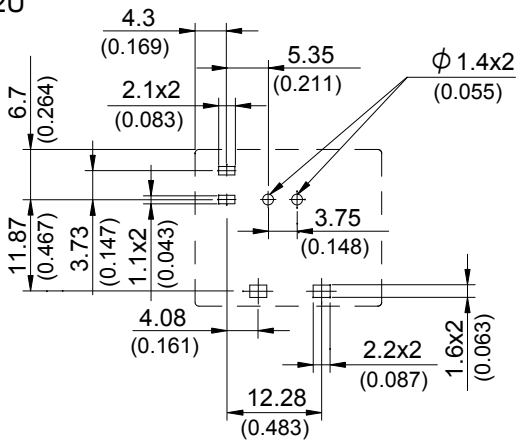
◆822E



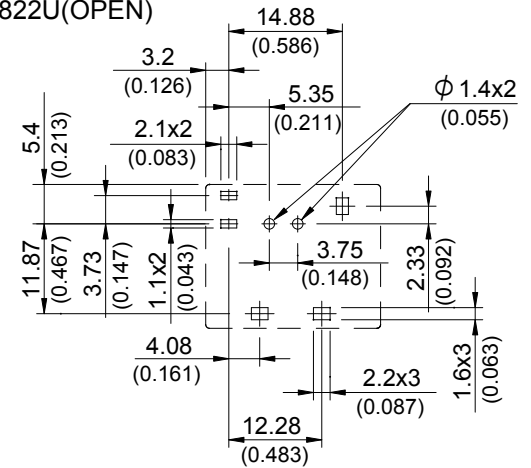
◆822E(OPEN)



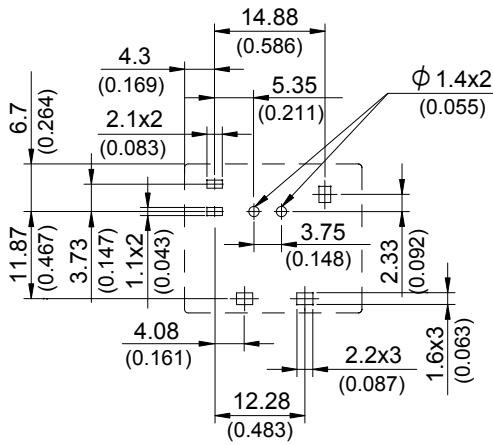
◆822U



◆822U(OPEN)

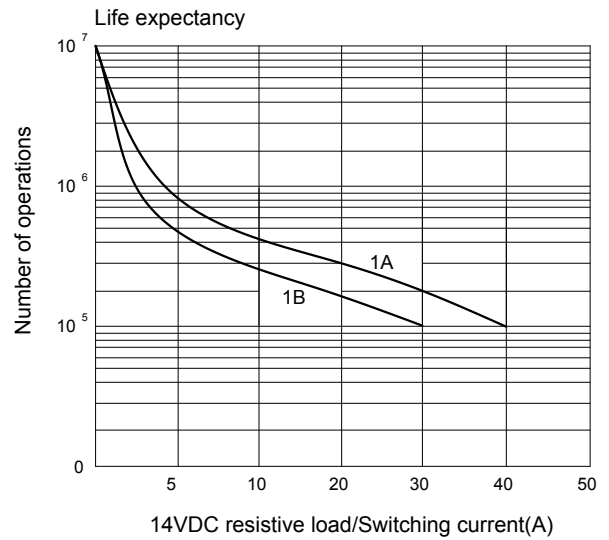
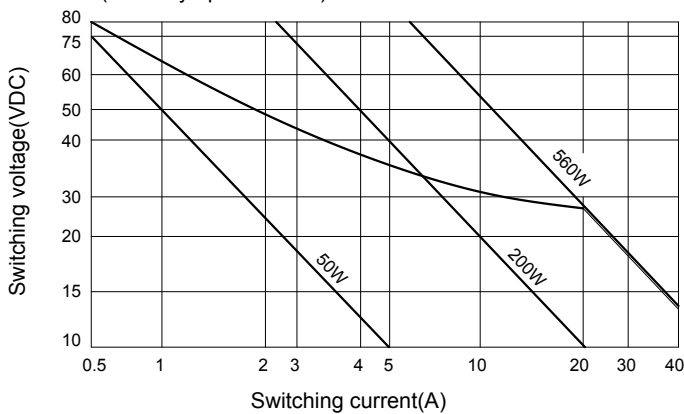


◆ 822UA

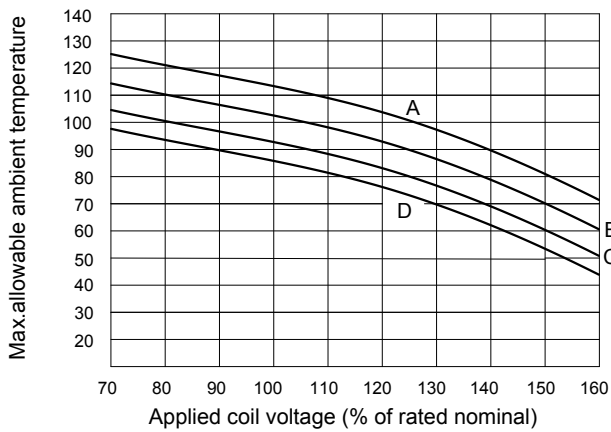


» Engineering Data

Safe breaking, arc extinguished (normally open contact) for resistive loads.



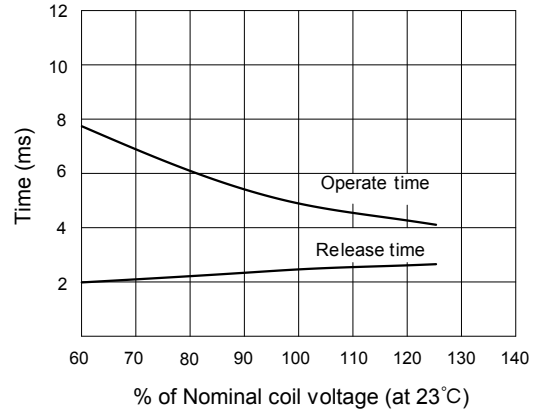
Ambient temperature vs coil voltage for continuous duty



A:10A B:20A C:30A D:40A Contact load(resistive)

Maximum mean coil temperature=155°C

Operate time/Release time



Данный компонент на территории Российской Федерации

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Сотрудничество с глобальными дистрибьюторами электронных компонентов, предоставляет возможность заказывать и получать с международных складов практически любой перечень компонентов в оптимальные для Вас сроки.

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Система менеджмента качества компании отвечает требованиям в соответствии с ГОСТ Р ИСО 9001, ГОСТ РВ 0015-002 и ЭС РД 009

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