



AS401



Specifications

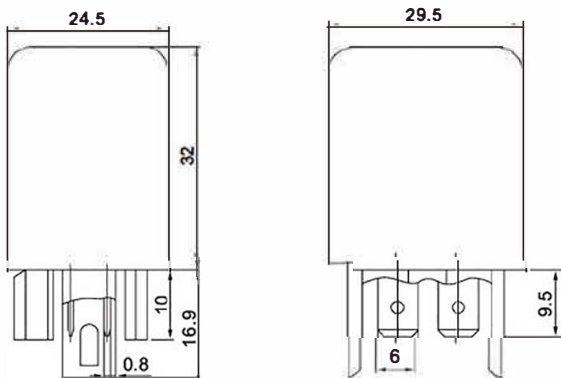
| | | |
|------------------|---------------------------------|---|
| Contact | Contact Form | 1H |
| | Rated Load (Resistive property) | NO:30A 12VDC |
| | Electrical/Mechanical Life | ≥100000times/1000000times |
| | Initial Contact Resistance | ≤50MΩ (1A 6VDC) |
| | Contact Material | AgSnO ₂ |
| Charact eristics | Insulation Resistance | ≥1000MΩ (500VDC) |
| | Dielectric Strength | Between open contacts≥500VAC/1min Between contact and coil≥500VAC/1min |
| | Operate/Release Time | ≤15ms/10ms |
| | Terminal Type | Quick Connection |
| Coil | Operating PowerDC | 1.8W |

DC Coil Data

| Rated Voltage VDC | Pickup Voltage VDC | Dropoff Voltage VDC | Coil Resistance Ω±10% |
|-------------------|--------------------|---------------------|-----------------------|
| 5 | 3.5 | 0.5 | 16 |
| 6 | 4.2 | 0.6 | 20 |
| 12 | 8.4 | 1.2 | 85 |
| 24 | 16.8 | 2.4 | 320 |

Dimensions (mm)

AS401



Features

- ♦ rated load10A
- ♦ extended temp. range up to 125°C
- ♦ plastic sealed and dust proof types available
- ♦ ELV compliant

Ordering Information

AS401-☐ ☐ ☐ ☐ ☐

Mount Type _____
N/A: quick connection

Options _____
N/A: standard D:diode R:resistance

Contact Form _____
1H(H:A)

Voltage Type _____
D: DC

Coil Voltage _____
see coil data

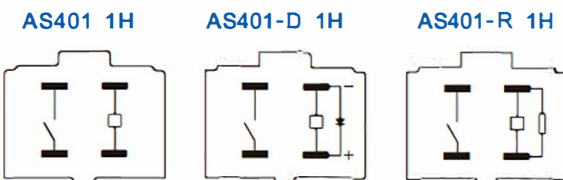
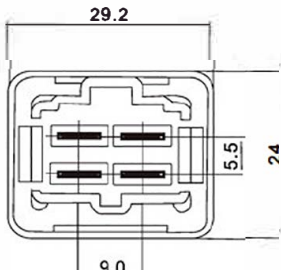
Contact Material _____
1:AgSnO₂

Notes: We has now gradually updated our ordering information. We suggest new type should be selected. If necessary, old type can be kept for some period for the old customers.



AS401

Wiring Diagrams





AS402



Specifications

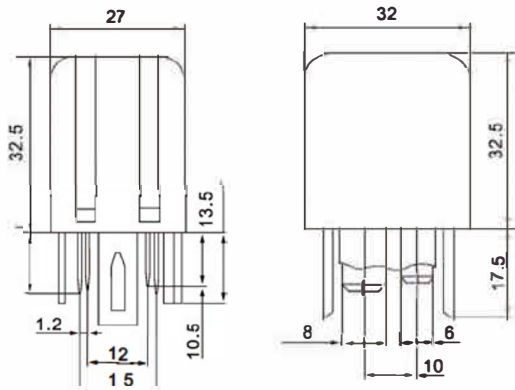
| | | |
|-----------------|---------------------------------|---|
| Contact | Contact Form | 1H |
| | Rated Load (Resistive property) | 30A 12VDC |
| | Electrical/Mechanical Life | ≥100000times/10000000times |
| | Initial Contact Resistance | ≤50MΩ (1A 6VDC) |
| | Contact Material | AgSnO ₂ |
| Characteristics | Insulation Resistance | ≥500MΩ (500VDC) |
| | Dielectric Strength | Between open contacts≥500VAC/1min Between contact and coil≥500VAC/1min |
| | Operate/Release Time | ≤15ms/10ms |
| | Terminal Type | Quick Connection |
| Coil | Operating Power DC | 1.8W |

DC Coil Data

| Rated Voltage VDC | Pickup Voltage VDC | Dropoff Voltage VDC | Coil Resistance Ω±10% |
|-------------------|--------------------|---------------------|-----------------------|
| 5 | 3.5 | 0.5 | 16 |
| 6 | 4.2 | 0.6 | 20 |
| 12 | 8.4 | 1.2 | 85 |
| 24 | 16.8 | 2.4 | 320 |

Dimensions (mm)

AS402



Features

- ♦ rated load30A
- ♦ extended temp. range up to 125℃
- ♦ plastic sealed and dust proof types available
- ♦ ELV compliant

Ordering Information

AS402-☐ ☐ ☐ ☐ ☐ ☐

Mount Type _____
N/A: quicconnection

Options _____
N/A: standard D:diode R:resistance

Contact Form _____
1H(H:A)

Voltage Type _____
D:DC

Coil Voltage _____
see coil data

Contact Material _____
1:AgSnO₂

Notes:We has now gradually updated our ordering information. We suggest new type should be selected. If necessary,old type can be kept for some period for the old customers.

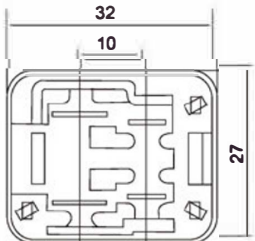


AS402

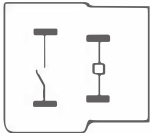


AS402

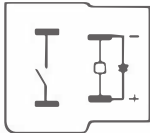
Wiring Diagrams



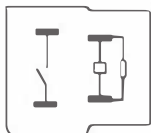
AS402 1H



AS402-D 1H



AS402-R 1H





AS405



Specifications

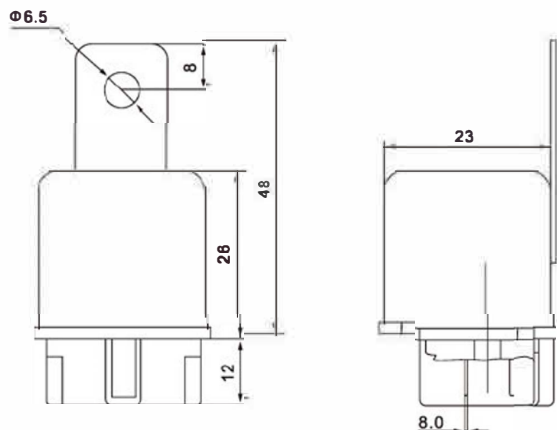
| | | |
|---------------------|------------------------------------|--------------------------------------|
| Contact | Contact Form | 1H |
| | Rated Load (Resistive property) | 30A 12VDC |
| | Electrical/Mechanical Life | ≥100000times/10000000times |
| | Initial Contact Resistance | ≤50MΩ (1A 6VDC) |
| | Contact Material | AgSnO ₂ |
| Charact eristics | Insulation Resistance | ≥500MΩ (500VDC) |
| | Dielectric Strength | Between open contacts≥500VAC/1min |
| | | Between contact and coil≥500VAC/1min |
| | Operate/Release Time | ≤15ms/10ms |
| | Terminal Type | Quick Connection |
| Coil | Operating PowerDC | 1.8W |

DC Coil Data

| Rated Voltage VDC | Pickup Voltage VDC | Dropoff Voltage VDC | Coil Resistance Ω±10% |
|----------------------|-----------------------|------------------------|--------------------------|
| 5 | 3.5 | 0.5 | 16 |
| 6 | 4.2 | 0.6 | 20 |
| 12 | 8.4 | 1.2 | 85 |
| 24 | 16.8 | 2.4 | 320 |

Dimensions (mm)

AS405



Features

- ♦ rated load30A
- ♦ extended temp. range up to 125℃
- ♦ plastic sealed and dust proof types available
- ♦ ELV compliant

Ordering Information

AS405-□□□□□□

Mount Type _____
N/A: Quick Connection

Options _____
N/A

Contact Form _____
1H(H:A)

Voltage Type _____
D: DC

Coil Voltage _____
see coil data

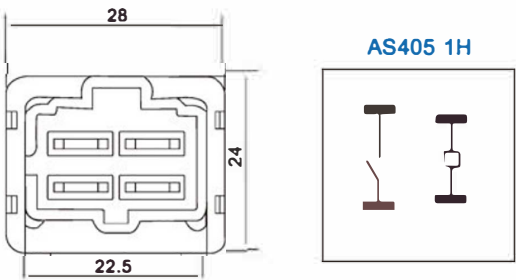
Contact Material _____
1:AgSnO₂

Notes:We has now graduslly updated our ordering information . We suggest new type should be selected . If necessary,old type can be kept for some period for the old customers.



AS405

Wiring Diagrams



AS406Automotive Relay

FRANJOBAIM

Excellence in Electronics Manufacturing



Specifications

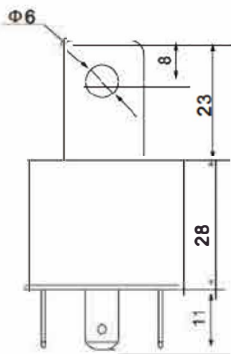
| | | |
|-----------------|------------------------------------|---|
| Contact | Contact Form | 1H, 1Z |
| | Rated Load (Resistive property) | 30A 12VDC |
| | Electrical/Mechanical Life | ≥100000times/1000000times |
| | Initial Contact Resistance | ≤50MΩ (1A 6VDC) |
| Characteristics | Contact Material | AgSnO ₂ |
| | Insulation Resistance | ≥100MΩ (500VDC) |
| | Dielectric Strength | Between open contacts≥500VAC/1min Between contact and coil≥500VAC/1min |
| | Operate/Release Time | ≤15ms/10ms |
| Coil | Terminal Type | Quick Connection |
| | Operating PowerDC | 1.8W |

DC Coil Data

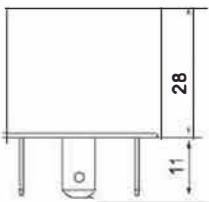
| Rated Voltage VDC | Pickup Voltage VDC | Dropoff Voltage VDC | Coil Resistance Ω±10% |
|----------------------|-----------------------|------------------------|--------------------------|
| 5 | 3.5 | 0.5 | 16 |
| 6 | 4.2 | 0.6 | 20 |
| 12 | 8.4 | 1.2 | 85 |
| 24 | 16.8 | 2.4 | 320 |

Dimensions (mm)

AS406



AS406-1



Features

- ♦ Rated Load 30A
- ♦ extended temp. range up to 125°C
- ♦ plastic sealed and dust proof types available
- ♦ ELV compliant

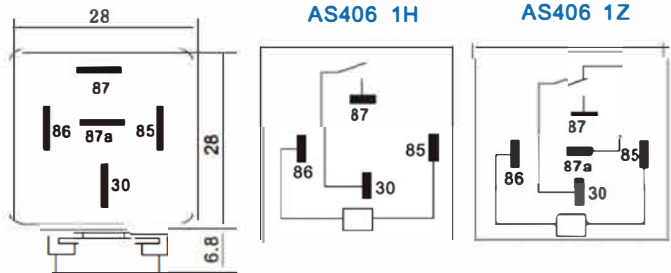
Ordering Information

| | | | | | |
|--|--------------------------|--------------------------|--------------------------|--------------------------|--------------------------|
| AS406- | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> | <input type="checkbox"/> |
| Mount Type | | | | | |
| N/A: Quick Connection M: Metal Plate Mount | | | | | |
| Options | | | | | |
| N/A | | | | | |
| Contact Form | | | | | |
| 1Z(Z:A H:A) | | | | | |
| Voltage Type | | | | | |
| D: DC | | | | | |
| Coil Voltage | | | | | |
| see coil data | | | | | |
| Contact Material | | | | | |
| 1: AgSnO ₂ | | | | | |

Notes: We have now gradually updated our ordering information. We suggest new type should be selected. If necessary, old type can be kept for some period for the old customers.



Wiring Diagrams



Environmental conditions.

- * Temperature: Check the temperature range in which the components can operate (e.g. industrial vs. commercial specifications). High or low temperatures can affect performance.
- * Humidity and corrosion: In humid or corrosive environments, component reliability may decrease. Protective coatings or enclosures may be required.
- * Shock and vibration: Mechanical vibration and shock can affect the durability and performance of components such as circuit boards, connectors and capacitors.

Physical considerations.

- * Dimensions and form factor: The available space on a printed circuit board or in an enclosure determines the dimensions of the components. Consider miniaturization and density of parts.
- * Mounting method: Choose between through-mounting (THT) or surface mounting (SMT). SMT is usually more compact and cheaper, while THT is more robust for heavy-duty applications.
- * Component Packing: Ensure that the packaging (e.g. DIP, SOIC, QFP) suits the required assembly techniques and manufacturing methods.

Reliability and longevity.

- * MTBF (Mean Time Between Failures): For applications where reliability is important, such as in aviation or medical equipment, the mean time between failures (MTBF) of components is important.
- * End-of-life (EOL): Some components may be taken out of production. It is important to determine whether a component will be available for a long time or whether replacements will be required.
- * Fail-safe design: Consider what happens if a component fails. Some components must fail safely, without damage to other parts of the system.

Warranty and Limitations of Liability

WARRANTY

FRANJOBAIM's exclusive warranty is that the products are free from defects in materials and workmanship for a period of one year (or other period if specified) from date of sale by FRANJOBAIM.

FRANJOBAIM MAKES NO WARRANTY OR REPRESENTATION, EXPRESS OR IMPLIED, REGARDING NON-INFRINGEMENT, MERCHANTABILITY, OR FITNESS FOR PARTICULAR PURPOSE OF THE PRODUCTS. ANY BUYER OR USER ACKNOWLEDGES THAT THE BUYER OR USER ALONE HAS DETERMINED THAT THE PRODUCTS WILL SUITABLY MEET THE REQUIREMENTS OF THEIR INTENDED USE. FRANJOBAIM DISCLAIMS ALL OTHER WARRANTIES, EXPRESS OR IMPLIED.

LIMITATIONS OF LIABILITY

FRANJOBAIM SHALL NOT BE RESPONSIBLE FOR SPECIAL, INDIRECT, OR CONSEQUENTIAL DAMAGES, LOSS OF PROFITS OR COMMERCIAL LOSS IN ANY WAY CONNECTED WITH THE PRODUCTS, WHETHER SUCH CLAIM IS BASED ON CONTRACT, WARRANTY, NEGLIGENCE, OR STRICT LIABILITY.

In no event shall the responsibility of FRANJOBAIM for any act exceed the individual price of the product on which liability is asserted.

IN NO EVENT SHALL FRANJOBAIM BE RESPONSIBLE FOR WARRANTY, REPAIR, OR OTHER CLAIMS REGARDING THE PRODUCTS UNLESS FRANJOBAIM'S ANALYSIS CONFIRMS THAT THE PRODUCTS WERE PROPERLY HANDLED, STORED, INSTALLED, AND MAINTAINED AND NOT SUBJECT TO CONTAMINATION, ABUSE, MISUSE, OR INAPPROPRIATE MODIFICATION OR REPAIR.

Application Considerations

Conditions for the Use of Electronic Components in Specific Applications

As a manufacturer of electronic components, we strive to deliver products that meet the highest quality standards and are suitable for various applications. To ensure the suitability and safety of our components in specific applications, the following conditions apply:

FRANJOBAIM shall not be responsible for conformity with any standards, codes, or regulations that apply to the combination of products in the customer's application or use of the products.

At the customer's request, FRANJOBAIM will provide applicable third party certification documents identifying ratings and limitations of use that apply to the products. This information by itself is not sufficient for a complete determination of the suitability of the products in combination with the end product, machine, system, or other application or use.

The following are some examples of applications for which particular attention must be given. This is not intended to be an exhaustive list of all possible uses of the products, nor is it intended to imply that the uses listed may be suitable for the products:

) Outdoor use, uses involving potential chemical contamination or electrical interference, or conditions or uses not described in this catalog.

) Nuclear energy control systems, combustion systems, railroad systems, aviation systems, medical equipment, amusement machines, vehicles, safety equipment, and installations subject to separate industry or government regulations.

) Systems, machines, and equipment that could present a risk to life or property.

Please know and observe all prohibitions of use applicable to the products.

NEVER USE THE PRODUCTS FOR AN APPLICATION INVOLVING SERIOUS RISK TO LIFE OR PROPERTY WITHOUT ENSURING THAT THE SYSTEM AS A WHOLE HAS BEEN DESIGNED TO ADDRESS THE RISKS, AND THAT THE FRANJOBAIM PRODUCTS ARE PROPERLY RATED AND INSTALLED FOR THE INTENDED USE WITHIN THE OVERALL EQUIPMENT OR SYSTEM.

PROGRAMMABLE PRODUCTS

FRANJOBAIM shall not be responsible for the user's programming of a programmable product, or any consequence thereof.

The general terms and conditions.

The terms and conditions set forth in this document are applicable. Changes and updates: Franjobaim- reserves the right to change the specifications of the products without mandatory notification. Users become realistic to contact Franjobaim for the latest and accurate information.

By using the electronic components, you agree to these terms and conditions and acknowledge that Franjobaim is not responsible for any fault or damage resulting from use of the products in an application for which they are not designed.

Read and Understand This Catalog

Please read and understand this catalog before purchasing the products. Please consult your FRANJOBAIM representative at info@franjobaim.com if you have any questions or comments. The general terms and conditions apply to these terms and conditions agreement.

When designing and selecting electronic components for an application, there are several factors that must be carefully concealed. Here are some important application considerations for electronic components:

Electrical specifications

- * Voltage and amperage: Ensure that the components can handle the required voltage and amperage in both normal and peak conditions. This includes operating voltage, peak voltages, and maximum current.
- * Power requirements: Determine how much power (in watts) the components must dissipate and whether they remain thermally stable within the assigned limits.
- * Frequency response: For applications such as RF (radio frequency) or high-speed communications, the frequency response of the components is important.
- * Capacitances, inductances and resistances can be frequency dependent.
- Noise and accuracy: Some applications, such as sensitive measuring equipment, require components with low noise and high accuracy.