



»» Features

- Mini ISO high power automotive relay 30A/50A.
- High temperature endurance up to 125 degree C.
- Optional SPNC, SPNO, SPDT, DPNO contact configurations.
- Optional to be equipped with protection diode or resistor.
- Both available PCB terminal and quick connect terminal versions.
- Available for plain cover type, skirted cover flanged cover, and weather proof versions.
- Tinned terminal is available on request.
- Comply with RoHS-Directive 2002/95/EC, and ELV-Directive 2000/53/EC.

»» Type List

| Terminal style | Contact form | Enclosure style | | |
|-----------------|--------------|-----------------|-------------|----------------------|
| | | Dust cover | Flux tight | Sealed type washable |
| Socket terminal | 1A (SPNO) | 896-1AH-D | 896-1AH-C | 896-1AH-S |
| | | 896H-1AH-D | 896H-1AH-C | 896H-1AH-S |
| | 1C (SPDT) | 896-1CH-D | 896-1CH-C | 896-1CH-S |
| | | 896H-1CH-D | 896H-1CH-C | 896H-1CH-S |
| | 2A (DPNO) | 896-2AH-D | 896-2AH-C | 896-2AH-S |
| | | 896H-2AH-D | 896H-2AH-C | 896H-2AH-S |
| PCB terminal | 1A (SPNO) | 896P-1AH-D | 896P-1AH-C | 896P-1AH-S |
| | | 896HP-1AH-D | 896HP-1AH-C | 896HP-1AH-S |
| | 1C (SPDT) | 896P-1CH-D | 896P-1CH-C | 896P-1CH-S |
| | | 896HP-1CH-D | 896HP-1CH-C | 896HP-1CH-S |
| | 2A (DPNO) | 896P-2AH-D | 896P-2AH-C | 896P-2AH-S |
| | | 896HP-2AH-D | 896HP-2AH-C | 896HP-2AH-S |

| Terminal style | Contact form | Enclosure style | |
|-----------------|--------------|----------------------------|----------------------------|
| | | Flanged cover (dust cover) | Flanged cover (flux tight) |
| Socket terminal | 1A (SPNO) | 896-1AH-D1 | 896-1AH-C1 |
| | | 896H-1AH-D1 | 896H-1AH-C1 |
| | 1C (SPDT) | 896-1CH-D1 | 896-1CH-C1 |
| | | 896H-1CH-D1 | 896H-1CH-C1 |
| | 2A (DPNO) | 896-2AH-D1 | 896-2AH-C1 |
| | | 896H-2AH-D1 | 896H-2AH-C1 |

| Terminal style | Contact form | Enclosure style | |
|-----------------|--------------|-----------------------------|----------------------------|
| | | Steel bracket (dust cover) | Steel bracket (flux tight) |
| Socket terminal | 1A (SPNO) | 896-1AH-D1S | 896-1AH-C1S |
| | | 896H-1AH-D1S | 896H-1AH-C1S |
| | 1C (SPDT) | 896-1CH-D1S | 896-1CH-C1S |
| | | 896H-1CH-D1S | 896H-1CH-C1S |
| | 2A (DPNO) | 896-2AH-D1S | 896-2AH-C1S |
| | | 896H-2AH-D1S | 896H-2AH-C1S |

| Terminal style | Contact form | Designation (provided with) | Enclosure style | |
|-----------------|--------------|-----------------------------|-----------------------------------------|------------------------------------------------|
| | | | Steel bracket (dust cover with shroud) | Steel bracket (dust cover with weather proof) |
| Socket terminal | 1C (SPDT) | Resistor | 896H-1CH-D1SF-R1 | 896H-1CH-D1SW-R1 |

»» Ordering Information

896 H P - 1CH - C - R1 - T 001
 1 2 3 4 5 6 7 8

- | | | | | | |
|----|-------|--------------------------------------------------------|------|--------------------------------------------------|-----------------------------------------------------------------------|
| 1. | 896 | -- Basic series designation | D1S | -- Steel bracket (dust cover) | |
| 2. | Blank | -- Standard type | C1S | -- Steel bracket (flux tight) | |
| | H | -- High power type | S1S | -- Steel bracket (sealed type washable) | |
| 3. | Blank | -- Socket terminal | D1SF | -- Steel bracket (dust cover with shroud) | |
| | P | -- PCB terminal | D1SW | -- Steel bracket (dust cover with weather proof) | |
| 4. | 1AH | -- Single pole normally open, contact material AgSnO | 6. | Blank | -- Standard type |
| | 1BH | -- Single pole normally closed, contact material AgSnO | | R1 | -- Coil parallel with resistor 1/2W for 12V 680Ω , 24V 2700Ω |
| | 1CH | -- Single pole double throw, contact material AgSnO | 7. | Blank | -- Standard type |
| | 2AH | -- Double pole double make, contact material AgSnO | | T | -- Special requirement for Tin plated terminal |
| 5. | D | -- Dust cover | 8. | Blank | -- Standard type |
| | C | -- Flux tight | | 001 | -- Coil parallel with diode IN4007 the positive pole on # 85 terminal |
| | S | -- Sealed type washable | | 002 | -- Coil parallel with diode IN4007 the negative pole on # 85 terminal |
| | C1 | -- Flanged cover (flux tight) | | | |
| | D1 | -- Flanged cover (dust cover) | | | |
| | S1 | -- Flanged cover (sealed type washable) | | | |

»» Contact Rating

| Type | 896 1A | 896 1B | 896 1C | 896 2A |
|----------------|-----------|-----------|----------------------------------|-------------|
| Resistive load | 40A 14VDC | 40A 14VDC | NO : 40A 14VDC NC : 30A 14VDC | 2×15A 14VDC |

| Type | 896H 1A | 896H 1B | 896H 1C | 896H 2A |
|----------------|------------------------|------------------------|--------------------------------------------------------|----------------------------|
| Resistive load | 50A 14VDC 20A 28VDC | 40A 14VDC 15A 28VDC | NO : 50A 14VDC, 20A 28VDC NC : 30A 14VDC, 15A 28VDC | 2×30A 14VDC 2×10A 28VDC |

»» 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 ⁽¹⁾ | Pick up voltage(Max) at 23°C | Drop out voltage(Min) at 23°C | Power consumption at rated voltage |
|-------------------|----------------------------------|-----------------------------------|------------------------------------------------|------------------------------|-------------------------------|------------------------------------|
| 12 | 133 | 90 | 120 % of rated voltage | 65 % of rated voltage | 10 % of rated voltage | approx. 1.6W |
| 24 | 66.7 | 360 | | | | |

Notes : (1) Without switching the load.

»» Specification

| | | |
|--------------------------------------|--------------------------|-----------------------------------------------------------|
| Contact material | AgSnO alloy | |
| Contact voltage drop ⁽¹⁾ | Typ. 50mV at 10A | |
| Insulation resistance ⁽¹⁾ | 20MΩ Min. (DC 500V) | |
| Operate time ⁽¹⁾ | 20ms Max. | |
| Release time ⁽¹⁾ | 20ms 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 | Operating extremes | 10~55Hz , amplitude 2mm |
| Shock resistance | Operating extremes | 10G |
| | Damage limits | 100G |
| Life expectancy | Mechanical | 10,000,000 operations (frequency 18,000 operations/hr) |
| | Electrical | 100,000 operations (frequency 1,200 operations/hr) |
| Temperature range | Operating | -40 ~ +125°C (no freezing) |
| Weight | Approx. 40 g | |

Note : (1) initial value

>>> Outline Dimensions

◆ 896,896H (C,D,S)



◆ 896,896H (C1,D1,S1)



◆ 896,896H (C1S,D1S,S1S)



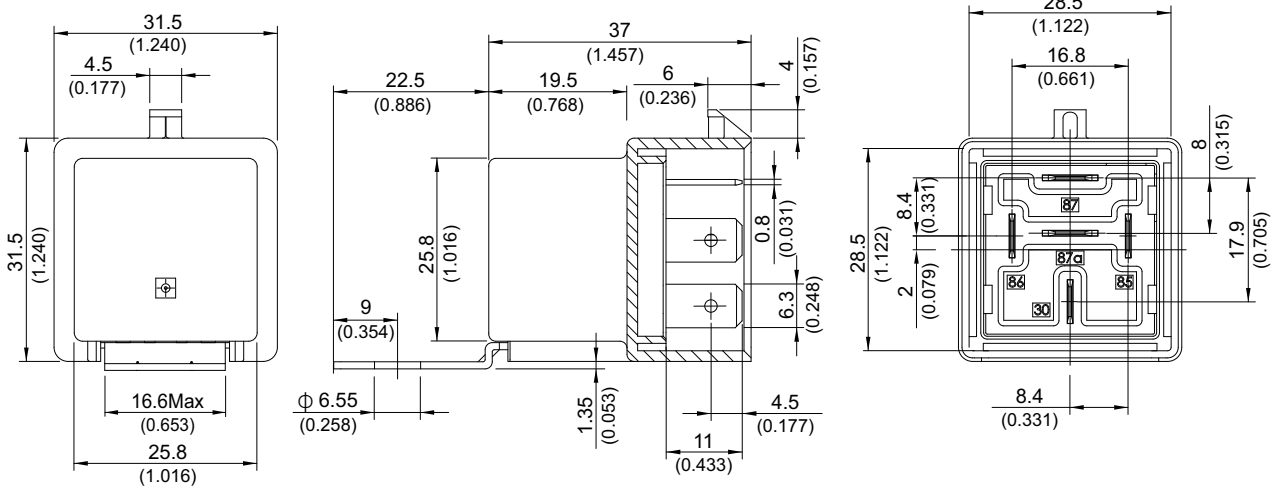
◆ 896P,896HP (C,D,S)



◆ 896H (D1SW)



◆ 896H (D1SF)



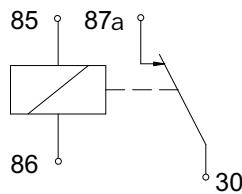
»» Wiring Diagram

BOTTOM VIEW

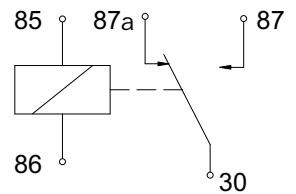
1A



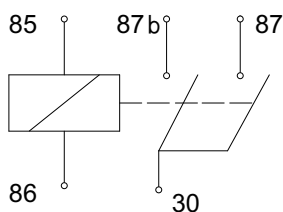
1B



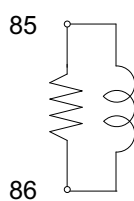
1C



2A



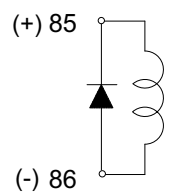
R1



001



002



»» PC Board Layout

BOTTOM VIEW



»» Engineering Data





Компания «ЭлектроПласт» предлагает заключение долгосрочных отношений при поставках импортных электронных компонентов на взаимовыгодных условиях!

Наши преимущества:

- Оперативные поставки широкого спектра электронных компонентов отечественного и импортного производства напрямую от производителей и с крупнейших мировых складов;
- Поставка более 17-ти миллионов наименований электронных компонентов;
- Поставка сложных, дефицитных, либо снятых с производства позиций;
- Оперативные сроки поставки под заказ (от 5 рабочих дней);
- Экспресс доставка в любую точку России;
- Техническая поддержка проекта, помощь в подборе аналогов, поставка прототипов;
- Система менеджмента качества сертифицирована по Международному стандарту ISO 9001;
- Лицензия ФСБ на осуществление работ с использованием сведений, составляющих государственную тайну;
- Поставка специализированных компонентов (Xilinx, Altera, Analog Devices, Intersil, Interpoint, Microsemi, Aeroflex, Peregrine, Syfer, Eurofarad, Texas Instrument, Miteq, Cobham, E2V, MA-COM, Hittite, Mini-Circuits, General Dynamics и др.);

Помимо этого, одним из направлений компании «ЭлектроПласт» является направление «Источники питания». Мы предлагаем Вам помощь Конструкторского отдела:

- Подбор оптимального решения, техническое обоснование при выборе компонента;
- Подбор аналогов;
- Консультации по применению компонента;
- Поставка образцов и прототипов;
- Техническая поддержка проекта;
- Защита от снятия компонента с производства.



Как с нами связаться

Телефон: 8 (812) 309 58 32 (многоканальный)

Факс: 8 (812) 320-02-42

Электронная почта: org@eplast1.ru

Адрес: 198099, г. Санкт-Петербург, ул. Калинина, дом 2, корпус 4, литера А.