

737



»» Features

- 30A general purpose Power Relay.
- SPDM, SPDB, SPDM+DB contact configurations.
- AC & DC coils are both available.
- Optional for anti-rotation tab, tapped core indicator lamp & push-to-test button, flanged covers. (side flange & top flange)
- Comply with RoHS-Directive 2002/95/EC.

»» Type List

| Terminal style | Contact form | Designation | Enclosure style | | | | |
|----------------|--------------|-------------|-----------------|-------------|---------------|------------------|--------------|
| | | | Open type | Dust cover | Ears on cover | Antirotation-tab | Ears on top |
| Quick terminal | 1X(SPDM) | ----- | 737-1X | 737-1X-C | 737-1X-C1 | 737-1X-C2 | 737-1X-C3 |
| | 1Y(SPDB) | | 737-1Y | 737-1Y-C | 737-1Y-C1 | 737-1Y-C2 | 737-1Y-C3 |
| | 1Z (SPDM/B) | | 737-1Z | 737-1Z-C | 737-1Z-C1 | 737-1Z-C2 | 737-1Z-C3 |
| | 1X(SPDM) | Lamp | ----- | 737-1X-C-L | 737-1X-C1-L | 737-1X-C2-L | 737-1X-C3-L |
| | 1Y(SPDB) | | ----- | 737-1Y-C-L | 737-1Y-C1-L | 737-1Y-C2-L | 737-1Y-C3-L |
| | 1Z (SPDM/B) | | ----- | 737-1Z-C-L | 737-1Z-C1-L | 737-1Z-C2-L | 737-1Z-C3-L |
| | 1X(SPDM) | Manual | ----- | 737-1X-C-M | 737-1X-C1-M | 737-1X-C2-M | 737-1X-C3-M |
| | 1Y(SPDB) | | ----- | 737-1Y-C-M | 737-1Y-C1-M | 737-1Y-C2-M | 737-1Y-C3-M |
| | 1Z (SPDM/B) | | ----- | 737-1Z-C-M | 737-1Z-C1-M | 737-1Z-C2-M | 737-1Z-C3-M |
| PCB terminal | 1X(SPDM) | ----- | ----- | 737-1X-C-T | ----- | 737-1X-C2-T | 737-1X-C3-T |
| | 1Y(SPDB) | | ----- | 737-1Y-C-T | ----- | 737-1Y-C2-T | 737-1Y-C3-T |
| | 1Z (SPDM/B) | | ----- | 737-1Z-C-T | ----- | 737-1Z-C2-T | 737-1Z-C3-T |
| | 1X(SPDM) | Lamp | ----- | 737-1X-C-LT | ----- | 737-1X-C2-LT | 737-1X-C3-LT |
| | 1Y(SPDB) | | ----- | 737-1Y-C-LT | ----- | 737-1Y-C2-LT | 737-1Y-C3-LT |
| | 1Z (SPDM/B) | | ----- | 737-1Z-C-LT | ----- | 737-1Z-C2-LT | 737-1Z-C3-LT |
| | 1X(SPDM) | Manual | ----- | 737-1X-C-MT | ----- | 737-1X-C2-MT | 737-1X-C3-MT |
| | 1Y(SPDB) | | ----- | 737-1Y-C-MT | ----- | 737-1Y-C2-MT | 737-1Y-C3-MT |
| | 1Z (SPDM/B) | | ----- | 737-1Z-C-MT | ----- | 737-1Z-C2-MT | 737-1Z-C3-MT |

»» Ordering Information

737 - 1X - F - C1 - M
 1 2 3 4 5

- | | |
|--------------------------------------|---------------------------|
| 1. 737 -- Basic series designation | 3. Blank -- Standard type |
| | F -- Class F |
| 2. 1X -- Single pole double make | |
| 1Y -- Single pole double break | 4. Blank -- Open type |
| 1Z -- Single pole double make/ break | C -- With cover |



- | | | | |
|----|---|----------|------------------------------------|
| C1 | -- With mounting ears on cover | 5. Blank | -- No special feature |
| C2 | -- With accessible mounting hole with anti-rotation tab | M | -- With manual operator |
| C3 | -- Mounting Ears on top of cover | T | -- Printed circuit board terminals |
| | | L | -- Pilot lamp |

»» Contact Rating

| | |
|----------------|-----------------------------------|
| Resistive load | 30A 28VDC, 15A 600VAC, 30A 300VAC |
| Motor | 1HP 120VAC, 1.5HP 200~600VAC |

»» Coil Rating (DC)

| Rated voltage (V) | Rated current ±10 % at 23°C (mA) | Coil resistance ±10 % at 23°C (Ω) | Max. continuous voltage at 75°C | Pick up voltage(Max) at 23°C | Drop out voltage(Min) at 23°C | Power consumption at rated voltage |
|-------------------|----------------------------------|-----------------------------------|---------------------------------|------------------------------|-------------------------------|------------------------------------|
| 1X 1Y | 6 | 188 | 110 % of rated voltage | 80 % of rated voltage | 10 % of rated voltage | approx. 1.2W |
| | 12 | 100 | | | | |
| | 24 | 51 | | | | |
| | 48 | 27 | | | | |
| | 110 | 11 | | | | |
| | 125 | 12.5 | | | | |
| 1Z | 6 | 250 | 110 % of rated voltage | 80 % of rated voltage | 10 % of rated voltage | approx. 1.5W |
| | 12 | 125 | | | | |
| | 24 | 63 | | | | |
| | 48 | 31 | | | | |
| | 110 | 11.5 | | | | |
| | 125 | 13 | | | | |

»» Coil Rating (AC)

| Rated voltage (V) | Coil resistance ±10 % at 23°C (Ω) | Max. continuous voltage at 75°C | Pick up voltage(Max) at 23°C | Drop out voltage(Min) at 23°C | Power consumption at rated voltage |
|-------------------|-----------------------------------|---------------------------------|------------------------------|-------------------------------|------------------------------------|
| 6 | 4.2 | 110 % of rated voltage | 85 % of rated voltage | 30 % of rated voltage | approx. 3.0VA |
| 12 | 18 | | | | |
| 24 | 72 | | | | |
| 110 | 1580 | | | | |
| 120 | 1700 | | | | |
| 220 | 5500 | | | | |
| 240 | 7200 | | | | |

»» Specification

| | | |
|--------------------------------------|-----------------------------|---|
| Contact material | AgSnO alloy | |
| Contact resistance ⁽¹⁾ | 50 mΩ Max. | |
| Operate time ⁽¹⁾ | 25 ms Max. | |
| Release time ⁽¹⁾ | 20 ms Max. | |
| Insulation resistance ⁽¹⁾ | 1000 MΩ Min. (DC 500V) | |
| Dielectric strength ⁽¹⁾ | Between live parts & ground | : AC 1600V , 50/60Hz 1 min. |
| | Between contact and coil | : AC 2200V , 50/60Hz 1 min. |
| | Between open contact | : AC 1000V , 50/60Hz 1 min. |
| Vibration resistance | Operating extremes | 10~55Hz , amplitude 2.0 mm |
| | Damage limits | 10~55Hz , amplitude 2.0 mm |
| 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 360 operations/hr) |
| Operating ambient temperature | -40~+75°C (no freezing) | |
| Weight | Approx. 83 g | |

Note : (1) initial value

»» Safety Approval

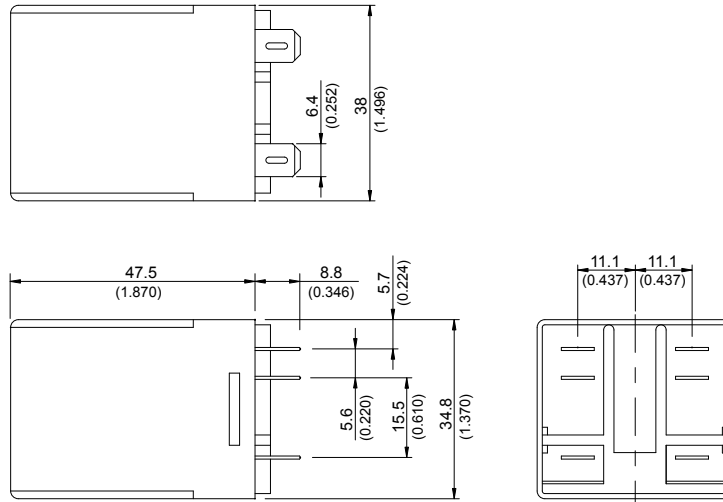
| Certified | UL | CSA | TUV |
|-----------|--------|---------|-----------|
| File No. | E88991 | 1664125 | R50044822 |

»» Safety Approval Rating

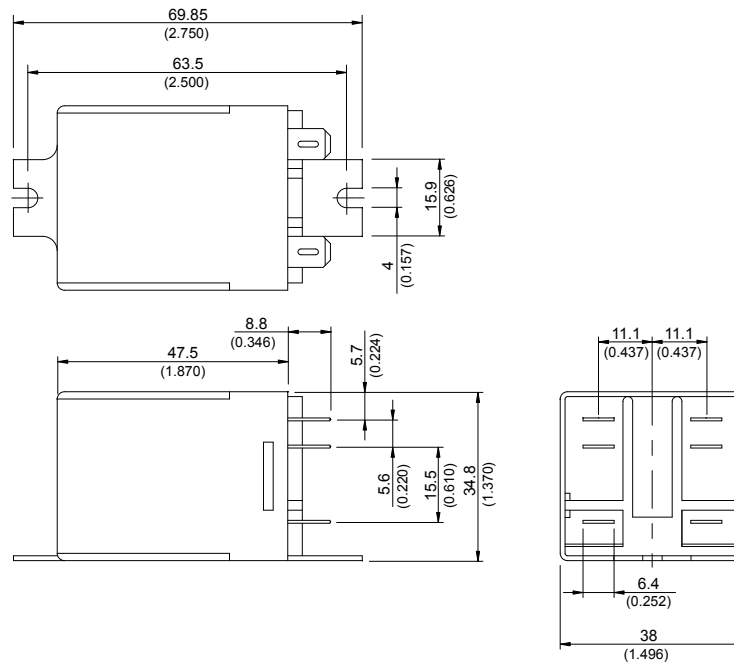
| UL | CSA | TUV |
|--------------------------|------------------|------------------------|
| 30A 28VDC | 30A 28VDC | 30A 250VAC (for 1X,1Z) |
| 30A 300VAC | 30A 300VAC | |
| 15A 600VAC | 15A 600VAC | |
| 1HP 120VAC | 1HP 120VAC | |
| 1.5HP 200/240/480/600VAC | 1.5HP 200~600VAC | |

»» Outline Dimensions

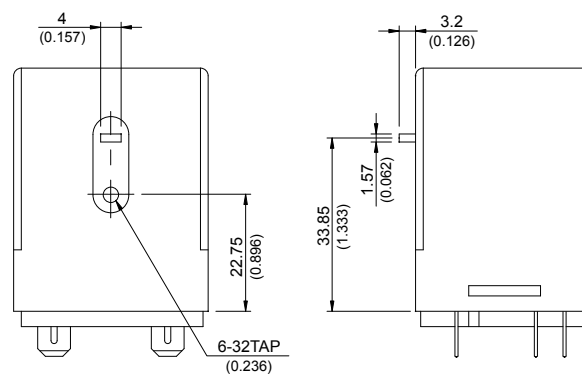
◆ 737 C



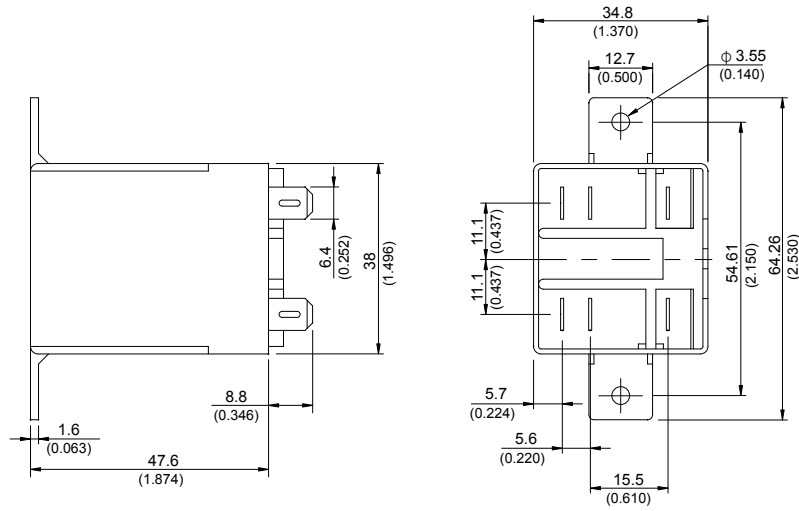
◆ 737 C1



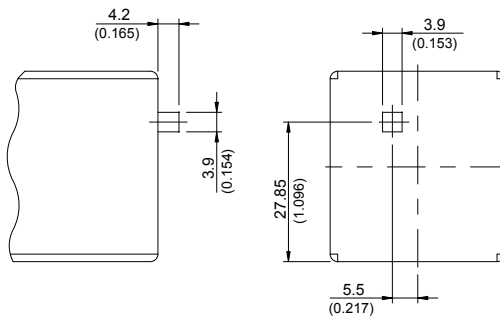
◆ 737 C2



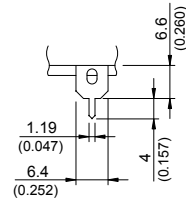
◆ 737 C3



◆ 737 M

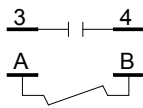


◆ 737 T

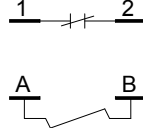


»» Wiring Diagram
BOTTOM VIEW

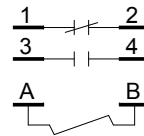
1X



1Y

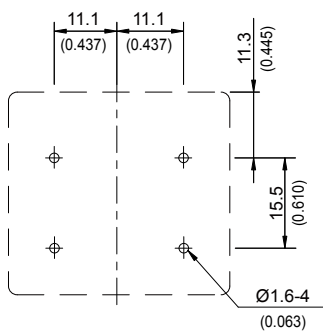


1Z

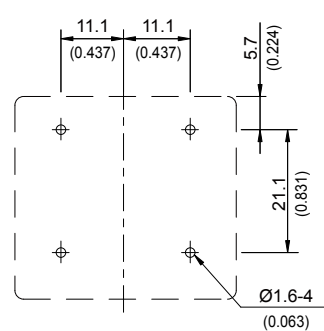


»» PC Board Layout
BOTTOM VIEW

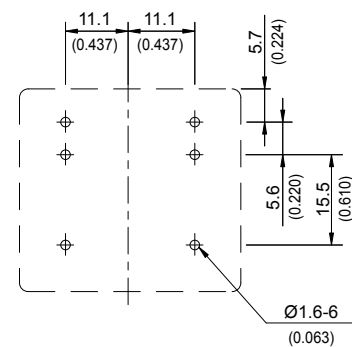
1X



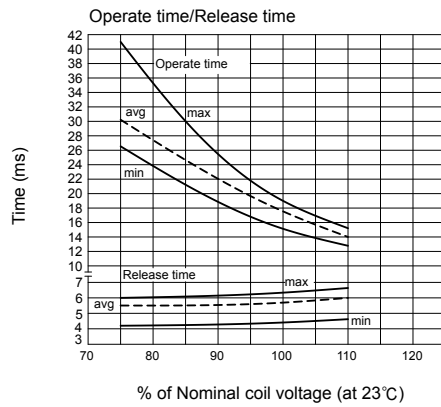
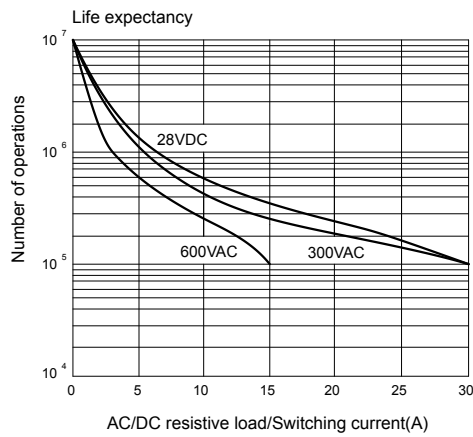
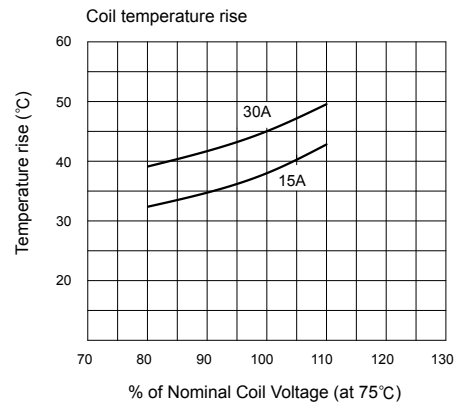
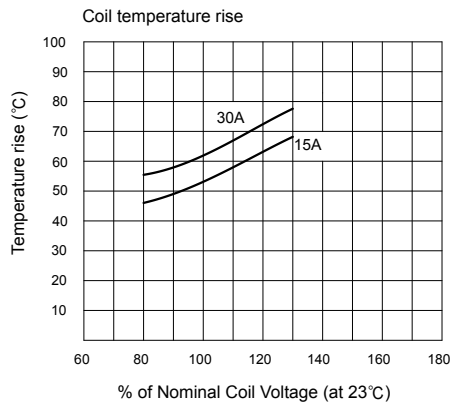
1Y



1Z



»» 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.