

»» Features



- 20A/25A general purpose Power Relays.
- SPDT, DPDT, TPDT contact configurations.
- DC & AC coils are both available.
- Optional for flange covers, tapped core w/anti-rotation tab, indicator lamp, push-to-test button, PCB terminals
- Comply with RoHS-Directive 2002/95/EC.

»» Type List

◆ Standard Type

| Terminal style | Contact form | Enclosure style | | | | |
|----------------|--------------|-----------------|------------|---------------|------------------|-------------|
| | | Open type | Dust cover | Ears on cover | Antirotation-tab | Ears on top |
| Quick terminal | 1A (SPNO) | 735-1A | 735-1A-C | 735-1A-C1 | 735-1A-C2 | 735-1A-C3 |
| | 1B (SPNC) | 735-1B | 735-1B-C | 735-1B-C1 | 735-1B-C2 | 735-1B-C3 |
| | 1C (SPDT) | 735-1C | 735-1C-C | 735-1C-C1 | 735-1C-C2 | 735-1C-C3 |
| | 2A (DPNO) | 735-2A | 735-2A-C | 735-2A-C1 | 735-2A-C2 | 735-2A-C3 |
| | 2B (DPNC) | 735-2B | 735-2B-C | 735-2B-C1 | 735-2B-C2 | 735-2B-C3 |
| | 2C (DPDT) | 735-2C | 735-2C-C | 735-2C-C1 | 735-2C-C2 | 735-2C-C3 |
| | 3A (TPNO) | 735-3A | 735-3A-C | 735-3A-C1 | 735-3A-C2 | 735-3A-C3 |
| | 3B (TPNC) | 735-3B | 735-3B-C | 735-3B-C1 | 735-3B-C2 | 735-3B-C3 |
| | 3C (TPDT) | 735-3C | 735-3C-C | 735-3C-C1 | 735-3C-C2 | 735-3C-C3 |
| PCB terminal | 1A (SPNO) | ----- | 735-1A-C-T | ----- | ----- | ----- |
| | 1B (SPNC) | ----- | 735-1B-C-T | ----- | ----- | ----- |
| | 1C (SPDT) | ----- | 735-1C-C-T | ----- | ----- | ----- |
| | 2A (DPNO) | ----- | 735-2A-C-T | ----- | ----- | ----- |
| | 2B (DPNC) | ----- | 735-2B-C-T | ----- | ----- | ----- |
| | 2C (DPDT) | ----- | 735-2C-C-T | ----- | ----- | ----- |
| | 3A (TPNO) | ----- | 735-3A-C-T | ----- | ----- | ----- |
| | 3B (TPNC) | ----- | 735-3B-C-T | ----- | ----- | ----- |
| | 3C (TPDT) | ----- | 735-3C-C-T | ----- | ----- | ----- |

◆ High Power Type

| Terminal style | Contact form | Insulation system | Enclosure style | |
|----------------|--------------|-------------------|-----------------|---------------|
| | | | Dust cover | Ears on cover |
| Quick terminal | 1A (SPNO) | F | 735H-1A-F-C | 735H-1A-F-C1 |
| | 1B (SPNC) | | 735H-1B-F-C | 735H-1B-F-C1 |
| | 1C (SPDT) | | 735H-1C-F-C | 735H-1C-F-C1 |
| | 2A (DPNO) | | 735H-2A-F-C | 735H-2A-F-C1 |
| | 2B (DPNC) | | 735H-2B-F-C | 735H-2B-F-C1 |
| | 2C (DPDT) | | 735H-2C-F-C | 735H-2C-F-C1 |

Ordering Information

735 H - 2C - F - C1 - M
 1 2 3 4 5 6

- | | | | |
|----------|--------------------------------|----------|---|
| 1. 735 | -- Basic series designation | 4. Blank | -- Standard type |
| | | F | -- Class F |
| 2. Blank | -- Standard type | 5. Blank | -- Open type |
| H | -- High power type | C | -- With cover |
| 3. 1A | -- Single pole normally open | C1 | -- With mounting ears on cover |
| 1B | -- Single pole normally closed | C2 | -- With accessible mounting hole with anti-rotation tab |
| 1C | -- Single pole double throw | C3 | -- Mounting ears on top of cover |
| 2A | -- Double pole normally open | 6. Blank | -- No special feature |
| 2B | -- Double pole normally closed | M | -- With manual operator |
| 2C | -- Double pole double throw | T | -- Printed circuit board terminals |
| 3A | -- Three pole normally open | L | -- Pilot lamp |
| 3B | -- Three pole normally closed | | |
| 3C | -- Three pole double throw | | |

Contact Rating

| TYPE | 735 | | 735H |
|----------------|-------------------------|--------------------------------|-------------------------|
| | 1A, 1B, 1C, 2A, 2B, 2C | 3A, 3B, 3C | |
| Resistive load | 20A 240VAC 15A 28VDC | 20A 120VAC 15A 240VAC/28VDC | 30A 240VAC 15A 28VDC |

Coil Rating (DC)

◆ Standard Type

| | Rated voltage (V) | Rated current ±10 % at 23°C (mA) | Coil resistance ±10 % at 23°C (Ω) | Max. continuous voltage at 50°C | Pick up voltage(Max) at 23°C | Drop out voltage(Min) at 23°C | Power consumption at rated voltage |
|----------|-------------------|----------------------------------|-----------------------------------|---------------------------------|------------------------------|-------------------------------|------------------------------------|
| SP DP | 6 | 188 | 32 | 160 % of rated voltage | 80 % of rated voltage | 10 % of rated voltage | approx. 1.2W |
| | 12 | 100 | 120 | | | | |
| | 24 | 51 | 472 | | | | |
| | 48 | 27 | 1800 | | | | |
| | 110 | 11 | 10000 | | | | |
| | 125 | 12.5 | 10000 | | | | |
| TP | 6 | 250 | 24 | 160 % of rated voltage | 80 % of rated voltage | 10 % of rated voltage | approx. 1.5W |
| | 12 | 125 | 96 | | | | |
| | 24 | 63 | 384 | | | | |
| | 48 | 31 | 1536 | | | | |
| | 110 | 11.5 | 9600 | | | | |
| | 125 | 13 | 9600 | | | | |



◆ High Power Type

| Rated voltage (V) | Rated current $\pm 10\%$ at 23°C (mA) | Coil resistance $\pm 10\%$ at 23°C (Ω) | Max. continuous voltage at 55°C | Pick up voltage(Max) at 23°C | Drop out voltage(Min) at 23°C | Power consumption at rated voltage |
|-------------------|---------------------------------------|---|---------------------------------|------------------------------|-------------------------------|------------------------------------|
| 6 | 188 | 32 | 160 % of rated voltage | 80 % of rated voltage | 10 % of rated voltage | approx. 1.2W |
| 12 | 100 | 120 | | | | |
| 24 | 51 | 472 | | | | |
| 48 | 27 | 1800 | | | | |
| 110 | 11 | 10000 | | | | |
| 125 | 12.5 | 10000 | | | | |

»» Coil Rating (AC)

◆ Standard Type

| Rated voltage (V) | Coil resistance $\pm 10\%$ at 23°C (Ω) | Max. continuous voltage at 50°C | Pick up voltage(Max) at 23°C | Drop out voltage(Min) at 23°C | Power consumption at rated voltage | |
|-------------------|---|---------------------------------|------------------------------|-------------------------------|------------------------------------|---------------|
| SP DP | 6 | 4.2 | 130 % of rated voltage | 85 % of rated voltage | 30 % of rated voltage | approx. 3.0VA |
| | 12 | 18 | | | | |
| | 24 | 72 | | | | |
| | 110 | 1580 | | | | |
| | 120 | 1700 | | | | |
| | 220 | 5850 | | | | |
| TP | 6 | 3.9 | 130 % of rated voltage | 85 % of rated voltage | 30 % of rated voltage | approx. 3.4VA |
| | 12 | 14.5 | | | | |
| | 24 | 64 | | | | |
| | 110 | 1450 | | | | |
| | 120 | 1540 | | | | |
| | 220 | 5850 | | | | |
| 240 | 6750 | | | | | |

◆ High Power Type

| Rated voltage (V) | Coil resistance $\pm 10\%$ at 23°C (Ω) | Max. continuous voltage at 55°C | Pick up voltage(Max) at 23°C | Drop out voltage(Min) at 23°C | Power consumption at rated voltage |
|-------------------|---|---------------------------------|------------------------------|-------------------------------|------------------------------------|
| 6 | 4.2 | 130 % of rated voltage | 85 % of rated voltage | 30 % of rated voltage | approx. 3.4VA |
| 12 | 18 | | | | |
| 24 | 72 | | | | |
| 110 | 1580 | | | | |
| 120 | 1700 | | | | |
| 220 | 5850 | | | | |
| 240 | 7200 | | | | |

»» Specification

| | | |
|--------------------------------------|---|---|
| Contact material | AgSnO alloy | |
| Contact resistance ⁽¹⁾ | 50 mΩ Max. (for 735) , 100 mΩ Max. (for 735H) | |
| Operate time ⁽¹⁾ | 25 ms Max. | |
| Release time ⁽¹⁾ | 20 ms Max. | |
| Insulation resistance ⁽¹⁾ | 1000 MΩ Min. (DC 500V) | |
| Dielectric strength ⁽¹⁾ | Between open contact | : AC 1000V, 50/60Hz 1 min. (for 735) : AC 1500V, 50/60Hz 1 min. (for 735H) |
| | Between contact and coil | : AC 1600V, 50/60Hz 1 min. (for 735) : AC 3000V, 50/60Hz 1 min. (for 735H) |
| | Between contact circuits | : AC 1600V, 50/60Hz 1 min. (for 735) : AC 3000V, 50/60Hz 1 min. (for 735H) |
| 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 ops./hr) |
| | Electrical | 100,000 operations (frequency 1,200 ops./hr) (for 735) |
| | | NO: 30,000 operations NC: 10,000 operations (frequency 360 ops./hr) (for 735H) |
| Operating ambient temperature | -30~+50°C (no freezing) (for 735) -30~+55°C (no freezing) (for 735H) | |
| Weight | Approx. 80 g | |

Note : (1) initial value

»» Safety Approval

| Certified | 735 | | | 735H |
|-----------|--------|---------|-------|----------|
| | UL | CSA | FIMKO | UL / CUL |
| File No. | E88991 | 1664125 | 14426 | E88991 |

»» Safety Approval Rating (FIMKO)

| 735 1A, 1B, 1C | 735 2A, 2B, 2C | 735 3A, 3B, 3C |
|----------------|----------------|----------------|
| 25A 250VAC | 25A 250VAC | 20A 250VAC |

»» Safety Approval Rating(UL、CSA)

| UL | | | CSA | | |
|----------------|----------------|----------------|----------------|----------------|----------------|
| 735 1A, 1B, 1C | 735 2A, 2B, 2C | 735 3A, 3B, 3C | 735 1A, 1B, 1C | 735 2A, 2B, 2C | 735 3A, 3B, 3C |
| 25A 28VDC | 20A 28VDC | 15A 28VDC | 30A 277VAC | 25A 277VAC | 20A 277VAC |
| 25A 277VAC | 25A 277VAC | 20A 277VAC | 10A 600VAC | 10A 600VAC | 15A 28VDC |
| 10A 600VAC | 10A 600VAC | 3/4HP 120VAC | 25A 28VDC | 20A 28VDC | 3/4HP 120VAC |
| 1.5HP 240VAC | 1.5HP 240VAC | 1HP 240VAC | 1.5HP 240VAC | 1.5HP 240VAC | 1HP 240VAC |
| 1HP 120VAC | 1HP 120VAC | | 1HP 120VAC | 1HP 120VAC | |

| UL / CUL | |
|-----------------|-----------------|
| 735H 1A, 1B, 1C | 735H 2A, 2B, 2C |
| 30A 277VAC | 30A 277VAC |
| 25A 28VDC | 20A 28VDC |
| 10A 600VAC | 10A 600VAC |
| 1.5HP 240VAC | 1.5HP 240VAC |
| 1HP 120VAC | 1HP 120VAC |

»» Outline Dimensions

◆ 735 C



◆ 735 C1

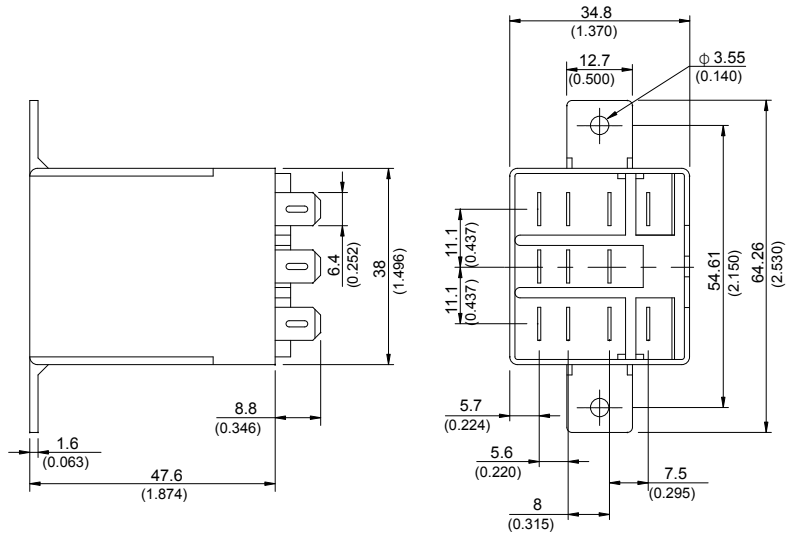


◆ 735 C2



735

◆ 735 C3



◆ 735 M

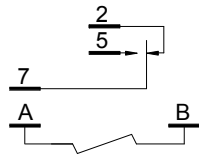


◆ 735 T

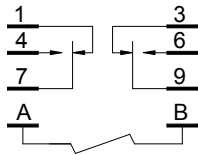


»» Wiring Diagram
BOTTOM VIEW

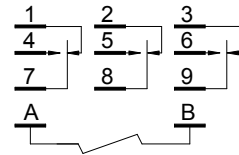
1C



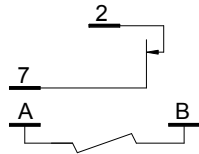
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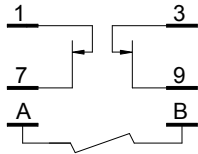
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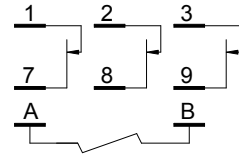
1B



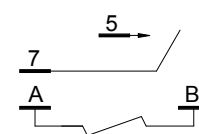
2B



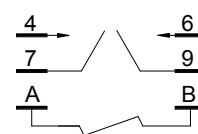
3B



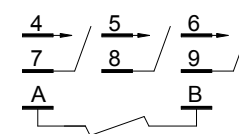
1A



2A



3A



»» PC Board Layout BOTTOM VIEW

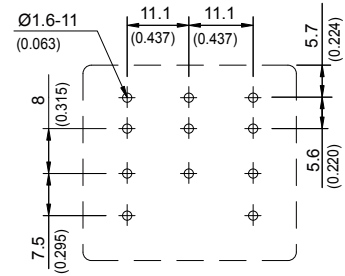
1P



2P



3P



»» 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

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