

AC Solid State Relay



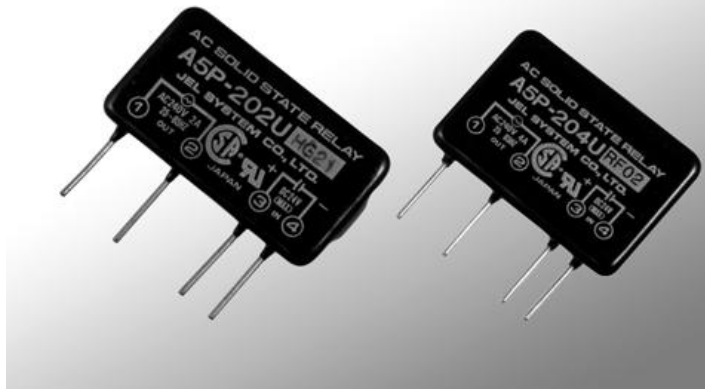
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A5P SERIES



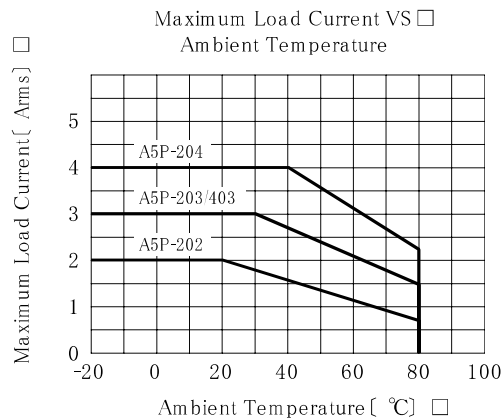
Features

- Resin casted molding type
- Available for PCB high-density packaging
- Dielectric strength between input and output at 3,000V/1 min. (V type)
- 3 ~ 24 V input voltage
- UL/CSA/TÜV standard approved (some items are not approved)
- 400 V is available with A5P-403

Type Information

| | | |
|------------------------|-------------------|----------------------|
| A 5 P - 2 0 2 * | | |
| Standard load voltage | Max. load current | Approved Standard |
| 2 : 100V, 200V | 02 : 2A | None : No standard |
| 4 : 400V | 03 : 3A | U : UL, CSA approved |
| | 04 : 4A | V : TÜV approved |

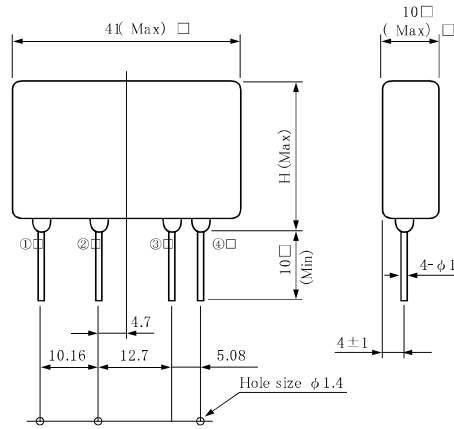
Characteristics



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Dimensions (mm)

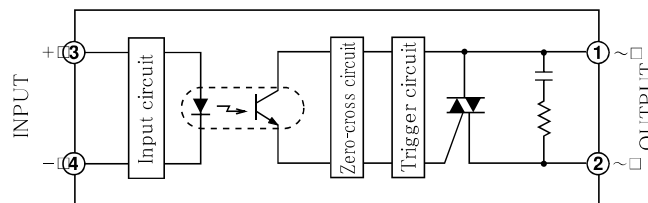


| Model | Size | H (mm) |
|-------------|------|----------|
| A5P-202 | | 26 |
| A5P-203/403 | | 26 |
| A5P-204 | | 31 |

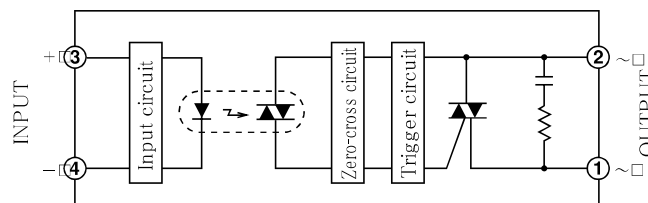
Dimensions For PCB Design

Equivalent Circuit

A5P-202 □, 203 □, 204 □



A5P-403



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A5P-202, A5P-203, A5P-204, A5P-403

■ Ratings

(Ta = 25 °C)

| | Item | Symbols | A5P-202U A5P-202V | A5P-203U A5P-203V | A5P-204U A5P-204V | A5P-403 | Units |
|---------------------------|---------------------------------------|--------------------|---|----------------------|----------------------|--------------------------|--------------------|
| Output | Rated Load Voltage | — | 120、240 | | | 400 | V _{ACrms} |
| | Maximum Load Current | I _{OMAX} | 2 | 3 | 4 | 3 | A _{ACrms} |
| | Maximum Load Voltage | V _{OMAX} | 264 | | | 484 | V _{ACrms} |
| | Peak Non Repetitive Off State Voltage | V _{DSM} | 600 | | | V _{DRM} = 800 * | V |
| | Peak 1 Cycle Surge Current | I _{SURGE} | 30 (50Hz) | 40 (50Hz) | 50 (50Hz) | 40 (50Hz) | A |
| | Frequency | f | 50、60 | | | | Hz |
| Input | Maximum Input Voltage | V _{IMAX} | 24 | | | 8 | V _{DC} |
| | Input Impedance | R _{IN} | 1500 ± 20 % | | | 180 ± 20 % | Ω |
| General | Dielectric Strength | V _{ISO} | 2,500 /1 min.(Between input and output)(Rh40 ~ 60 %) | | | | V _{ACrms} |
| | | | V type 3,000 /1 min.(Between input and output)(Rh40 ~ 60 %) | | | — | |
| | Isolation Resistance | R _{ISO} | 10 ⁸ and above DC500V(Between input and output)(Rh40 ~ 60 %) | | | | Ω |
| | Operating Temperature Range | T _{OPR} | -20 ~ +80 | | | | °C |
| Storage Temperature Range | T _{STG} | -30 ~ +100 | | | | °C | |

* Peak Repetitive Off State Voltage V_{DRM}

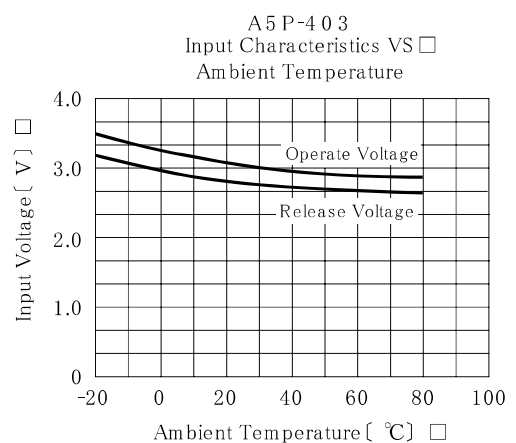
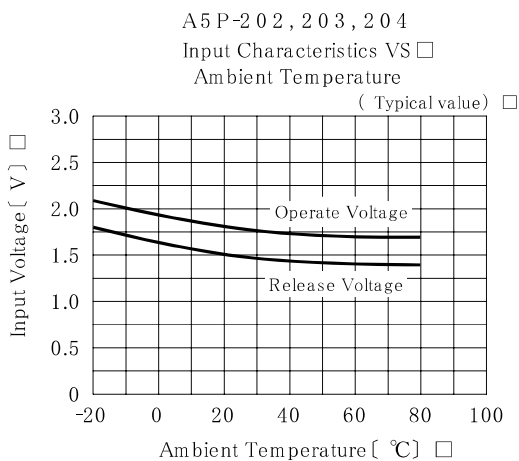
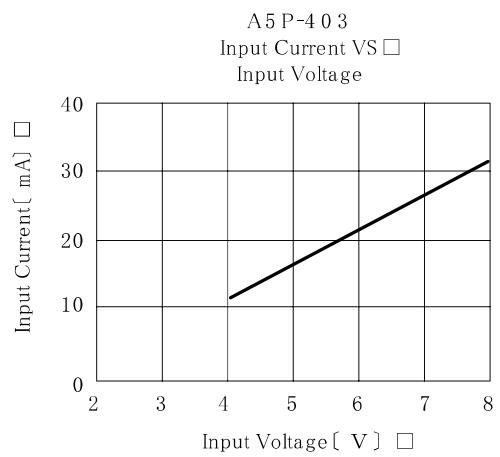
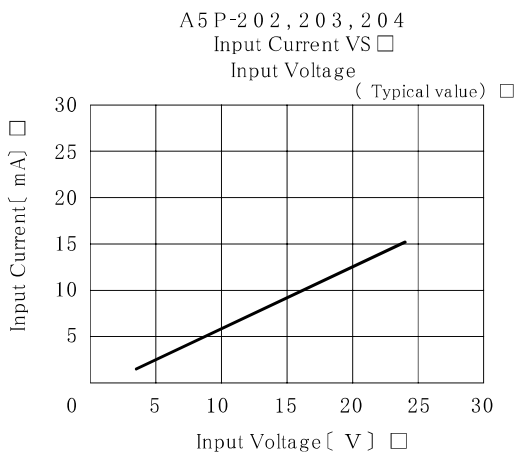
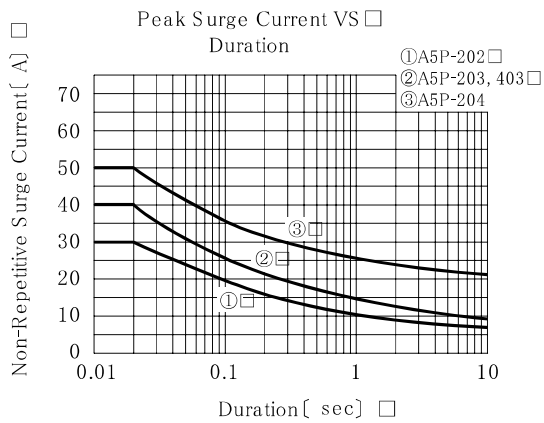
■ Electrical Characteristics

(Ta = 25 °C)

| | Item | Symbols | A5P-202U A5P-202V | A5P-203U A5P-203V | A5P-204U A5P-204V | A5P-403 | Units |
|---------|---------------------------|-------------------|---|----------------------|----------------------|--|----------------------|
| Output | Load Voltage Range | V _O | 50 ~ 264 | | | 60 ~ 484 | V _{ACrms} |
| | Off State Leakage Current | I _{LEK} | 5.0 and below (V _O = 200V) | | | 5.0 and below (V _O = 400V) | m A _{ACrms} |
| | On State Voltage Drop | V _{SAT} | 1.5 and below | | | | V _{ACrms} |
| | Minimum Load Current | I _{OMIN} | 20 | | | | mA |
| Input | Input Voltage Range | V _I | 3 ~ 24 | | | 4 ~ 8 | V _{DC} |
| | Operate Voltage | V _P | 3 and below | | | 4 and below | V _{DC} |
| | Release Voltage | V _D | 1 and above | | | | V _{DC} |
| General | Operate Time | T _{ON} | 1/2 Cycle + 1ms and below | | | | / |
| | Release Time | T _{OFF} | 1/2 Cycle + 1ms and below | | | | / |
| | Capacitance | C _{IO} | 15 and below | | | | PF |
| | Zero Cross Turn On | | Built In | | | | / |
| | Approved Standards | | -U means UL, CSA /-V means TÜV | | | — | / |

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