

2) Sealed type

| Contact arrangement | Nominal coil voltage | Part No. | | |
|---------------------|----------------------|-------------------------|----------------------|----------------------|
| | | Single side stable type | 1 coil latching type | 2 coil latching type |
| 1 Form C | 5V DC | ADJ16005 | ADJ12005 | ADJ14005 |
| | 6V DC | ADJ16006 | ADJ12006 | ADJ14006 |
| | 12V DC | ADJ16012 | ADJ12012 | ADJ14012 |
| | 24V DC | ADJ16024 | ADJ12024 | ADJ14024 |
| | 48V DC | ADJ16048 | ADJ12048 | ADJ14048 |
| 1 Form A | 5V DC | ADJ26005 | ADJ22005 | ADJ24005 |
| | 6V DC | ADJ26006 | ADJ22006 | ADJ24006 |
| | 12V DC | ADJ26012 | ADJ22012 | ADJ24012 |
| | 24V DC | ADJ26024 | ADJ22024 | ADJ24024 |
| | 48V DC | ADJ26048 | ADJ22048 | ADJ24048 |
| 1 Form B | 5V DC | ADJ36005 | Please use 1 Form A. | Please use 1 Form A. |
| | 6V DC | ADJ36006 | | |
| | 12V DC | ADJ36012 | | |
| | 24V DC | ADJ36024 | | |
| | 48V DC | ADJ36048 | | |
| 1 Form A 1 Form B | 5V DC | ADJ46005 | ADJ42005 | ADJ44005 |
| | 6V DC | ADJ46006 | ADJ42006 | ADJ44006 |
| | 12V DC | ADJ46012 | ADJ42012 | ADJ44012 |
| | 24V DC | ADJ46024 | ADJ42024 | ADJ44024 |
| | 48V DC | ADJ46048 | ADJ42048 | ADJ44048 |
| 2 Form C | 5V DC | ADJ56005 | ADJ52005 | ADJ54005 |
| | 6V DC | ADJ56006 | ADJ52006 | ADJ54006 |
| | 12V DC | ADJ56012 | ADJ52012 | ADJ54012 |
| | 24V DC | ADJ56024 | ADJ52024 | ADJ54024 |
| | 48V DC | ADJ56048 | ADJ52048 | ADJ54048 |
| 2 Form A | 5V DC | ADJ66005 | ADJ62005 | ADJ64005 |
| | 6V DC | ADJ66006 | ADJ62006 | ADJ64006 |
| | 12V DC | ADJ66012 | ADJ62012 | ADJ64012 |
| | 24V DC | ADJ66024 | ADJ62024 | ADJ64024 |
| | 48V DC | ADJ66048 | ADJ62048 | ADJ64048 |
| 2 Form B | 5V DC | ADJ76005 | Please use 2 Form A. | Please use 2 Form A. |
| | 6V DC | ADJ76006 | | |
| | 12V DC | ADJ76012 | | |
| | 24V DC | ADJ76024 | | |
| | 48V DC | ADJ76048 | | |

Standard packing: Carton: 100 pcs.; Case: 500 pcs.

2. With a test button

Flux-resistant type

| Contact arrangement | Nominal coil voltage | Part No. | | |
|---------------------|----------------------|-------------------------|----------------------|----------------------|
| | | Single side stable type | 1 coil latching type | 2 coil latching type |
| 1 Form C | 5V DC | ADJ15105 | ADJ11105 | ADJ13105 |
| | 6V DC | ADJ15106 | ADJ11106 | ADJ13106 |
| | 12V DC | ADJ15112 | ADJ11112 | ADJ13112 |
| | 24V DC | ADJ15124 | ADJ11124 | ADJ13124 |
| | 48V DC | ADJ15148 | ADJ11148 | ADJ13148 |
| 1 Form A | 5V DC | ADJ25105 | ADJ21105 | ADJ23105 |
| | 6V DC | ADJ25106 | ADJ21106 | ADJ23106 |
| | 12V DC | ADJ25112 | ADJ21112 | ADJ23112 |
| | 24V DC | ADJ25124 | ADJ21124 | ADJ23124 |
| | 48V DC | ADJ25148 | ADJ21148 | ADJ23148 |
| 1 Form B | 5V DC | ADJ35105 | Please use 1 Form A. | Please use 1 Form A. |
| | 6V DC | ADJ35106 | | |
| | 12V DC | ADJ35112 | | |
| | 24V DC | ADJ35124 | | |
| | 48V DC | ADJ35148 | | |

Standard packing: Carton: 100 pcs.; Case: 500 pcs.

RATING

1. Coil data

1) Single side stable

| Nominal coil voltage | Pick-up voltage (at 20°C 68°F) | Drop-out voltage (at 20°C 68°F) | Coil resistance [±10%] (at 20°C 68°F) | Nominal operating power | Max. applied voltage (at 20°C 68°F) |
|----------------------|--|--|--|-------------------------|--|
| 5V DC | 75%V or less of nominal voltage (Initial) | 10%V or more of nominal voltage (Initial) | 100Ω | 250mW | 130%V of nominal voltage |
| 6V DC | | | 144Ω | | |
| 12V DC | | | 576Ω | | |
| 24V DC | | | 2,304Ω | | |
| 48V DC | | | 9,216Ω | | |

2) 1 coil latching

| Nominal coil voltage | Set voltage (at 20°C 68°F) | Reset voltage (at 20°C 68°F) | Coil resistance [±10%] (at 20°C 68°F) | Nominal operating power | Max. applied voltage (at 20°C 68°F) |
|----------------------|--|--|--|-------------------------|--|
| 5V DC | 70%V or less of nominal voltage (Initial) | 70%V or less of nominal voltage (Initial) | 167Ω | 150mW | 130%V of nominal voltage |
| 6V DC | | | 240Ω | | |
| 12V DC | | | 960Ω | | |
| 24V DC | | | 3,840Ω | | |
| 48V DC | | | 15,360Ω | | |

3) 2 coil latching

| Nominal coil voltage | Set voltage (at 20°C 68°F) | Reset voltage (at 20°C 68°F) | Coil resistance [±10%] (at 20°C 68°F) | Nominal operating power | Max. applied voltage (at 20°C 68°F) |
|----------------------|--|--|--|-------------------------|--|
| 5V DC | 70%V or less of nominal voltage (Initial) | 70%V or less of nominal voltage (Initial) | 100Ω | 250mW | 130%V of nominal voltage |
| 6V DC | | | 144Ω | | |
| 12V DC | | | 576Ω | | |
| 24V DC | | | 2,304Ω | | |
| 48V DC | | | 9,216Ω | | |

2. Specifications

| Characteristics | Item | Specifications | |
|--|---|---|---|
| Contact | Arrangement | 1 Form C, 1 Form A, 1 Form B, 1 Form A 1 Form B, 2 Form C, 2 Form A, 2 Form B | |
| | Contact resistance (Initial) | Max. 100 mΩ (By voltage drop 6 V DC 1A) | |
| | Contact material | AgSnO ₂ type (1 Form C, 1 Form A, 1 Form B), Au-flashed AgSnO ₂ type (1 Form A 1 Form B, 2 Form C, 2 Form A, 2 Form B) | |
| Rating | Nominal switching capacity (resistive load) | 16 A 250V AC (1 Form C, 1 Form A, 1 Form B), 10 A 250V AC (2 Form C, 2 Form A, 2 Form B, 1 Form A 1 Form B) | |
| | Max. switching power (resistive load) | 4,000 V A (1 Form C, 1 Form A, 1 Form B), 2,500 V A (2 Form C, 2 Form A, 2 Form B, 1 Form A 1 Form B) | |
| | Max. switching voltage | 250V AC | |
| | Max. switching current | 16 A (1 Form C, 1 Form A, 1 Form B), 10 A (1 Form A 1 Form B, 2 Form C, 2 Form A, 2 Form B) | |
| | Nominal operating power | 150mW (1 coil latching), 250mW (Single side stable, 2 coil latching) | |
| | Min. switching capacity (Reference value)*1 | 100mA 5 V DC | |
| Electrical characteristics | Insulation resistance (Initial) | Min. 1,000MΩ (at 500V DC) Measurement at same location as "Breakdown voltage" section. | |
| | Breakdown voltage (Initial) | Between open contacts | 1,000 Vrms for 1min. (Detection current: 10mA) |
| | | Between contact and coil | 4,000 Vrms for 1min. (Detection current: 10mA) |
| | | Between contact sets | 2,000 Vrms for 1min. (Detection current: 10mA) (Only 2 Form C, 2 Form A, 2 Form B, 1 Form A 1 Form B) |
| | Surge breakdown voltage*2 (Initial) | Between contact and coil | Min. 10,000 V |
| | Temperature rise (coil) (at 70°C 158°F) | | Single side stable type: Max. 50°C 122°F (By resistive method, nominal voltage applied to the coil, max. switching current) 1 coil latching type and 2 coil latching type: Max. 50°C 122°F (By resistive method, coil: de-energized, max. switching current) |
| | Operate time [Set time] (at 20°C 68°F) | | Max. 20 ms [20 ms] (Nominal voltage applied to the coil, excluding contact bounce time.) |
| Release time [Reset time] (at 20°C 68°F) | | Max. 20 ms [20 ms] (Nominal voltage applied to the coil, excluding contact bounce time, without diode.) | |
| Mechanical characteristics | Shock resistance | Functional | Min. 200 m/s ² (Half-wave pulse of sine wave: 11 ms; detection time: 10μs.) |
| | | Destructive | Min. 1,000 m/s ² (Half-wave pulse of sine wave: 6 ms.) |
| | Vibration resistance | Functional | 10 to 55 Hz at double amplitude of 2 mm (Detection time: 10μs.) |
| | | Destructive | 10 to 55 Hz at double amplitude of 3 mm |
| Expected life | Mechanical | Min. 5×10 ⁶ (at 180 times/min.) | |
| | Electrical (Resistive load)*3 (at 20 times/min.) | Min. 10 ⁵ (at 16A 250V AC): 1 Form C, 1 Form A, 1 Form B Min. 10 ⁵ (at 10A 250V AC): 2 Form C, 2 Form A, 2 Form B, 1 Form A 1 Form B | |
| Conditions | Conditions for operation, transport and storage*4 | Ambient temperature: -40°C to +70°C -40°F to +158°F Humidity: 5 to 85% R.H. (Not freezing and condensing at low temperature) | |
| Unit weight | | Approx. 14 g .49 oz | |

Notes: *1. This value can change due to the switching frequency, environmental conditions, and desired reliability level, therefore it is recommended to check this with the actual load.

*2. Wave is standard shock voltage of ±1.2×50μs according to JEC-212-1981

*3. In order to obtain the full rated life cycles, the relay should be properly vented by removing the vent nib. More detail, please look at caution for NOTES.

*4. The upper limit of the ambient temperature is the maximum temperature that can satisfy the coil temperature rise value. Refer to Usage, transport and storage conditions in NOTES.