

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.