

2. Specifications

Characteristics	Item	Specifications	
Contact	Arrangement	1 Form A 1 Form B, 2 Form A	
	Contact material	Au-flashed AgSnO <sub>2</sub> type	
Rating	Initial contact resistance, max.	Max. 30 mΩ (By voltage drop 6 V DC 1A)	
	Max. switching power (resistive load)	3,040 VA, 150 W	
	Max. switching voltage	380 V AC, 250 V DC	
	Max. switching current	8 A	
	Minimum operating power	150mW (Single side stable, 2 coil latching)	
	Nominal operating power	240mW (Single side stable, 2 coil latching)	
	Min. switching capacity (Reference value)*1	100 mA 5V DC	
Electrical characteristics	Insulation resistance (Initial) (at 25°C, 50% relative humidity)	Min. 1,000MΩ (at 500V DC) Measurement at same location as "Initial breakdown voltage" section.	
	Breakdown voltage (Initial)	Between open contacts	1,200 Vrms for 1 min. (Detection current: 10 mA)
		Between contact sets	2,000 Vrms for 1 min. (Detection current: 10 mA)
		Between contact and coil	3,750 Vrms for 1 min. (Detection current: 10 mA)
	Surge breakdown voltage (Initial)*2	6,000 V (Between contact and coil)	
	Operate time [Set time] (at 20°C 68°F)	Max. 15 ms [Max. 15 ms] (Nominal voltage applied to the coil, excluding contact bounce time.)	
	Release time [Reset time] (at 20°C 68°F)	Max. 10 ms [Max. 15 ms] (Nominal voltage applied to the coil, excluding contact bounce time.) (without diode)	
Mechanical characteristics	Shock resistance	Functional	Min. 196 m/s <sup>2</sup> (Half-wave pulse of sine wave: 11 ms; detection time: 10μs.)
		Destructive	Min. 980 m/s <sup>2</sup> (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. 10 <sup>7</sup> (at 180 times/min.)	
	Electrical	Min. 10 <sup>5</sup> (8 A 250 V AC resistive) (ON : OFF = 1 s : 5 s)	
Conditions	Conditions for operation, transport and storage*3	Ambient temperature: -40°C to +60°C -40°F to +140°F; Humidity: 5 to 85% R.H. (Not freezing and condensing at low temperature)	
	Max. operating speed	20 times/min.*4	
Unit weight		Approx. 10g .353 oz	

\*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.

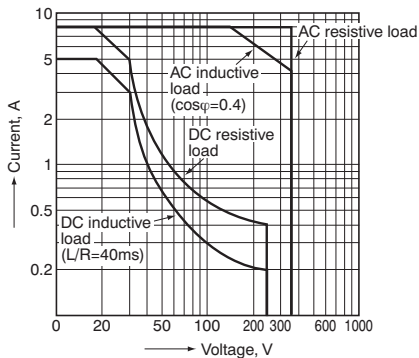
\*2 Wave is standard shock voltage of ±1.2×50μs according to JEC-212-1981.

\*3 Refer to "6. Usage, Storage and Transport Conditions" in [AMBIENT ENVIRONMENT](#) section in [Relay Technical Information](#).

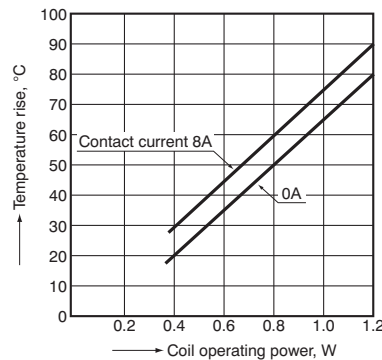
\*4 The max. operating speed amounts to 30cps without load.

REFERENCE DATA

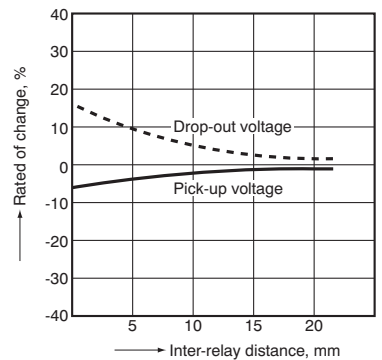
1. Max. switching power



2. Coil temperature rise



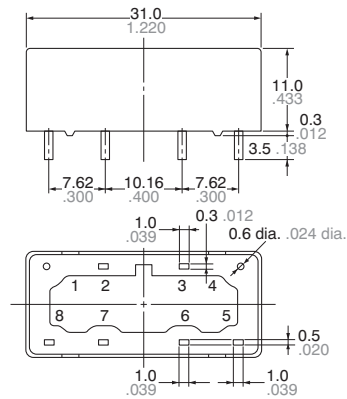
3. Influence of adjacent mounting



**CAD Data**

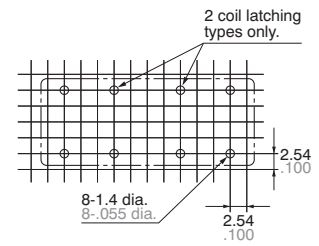


**External dimensions**



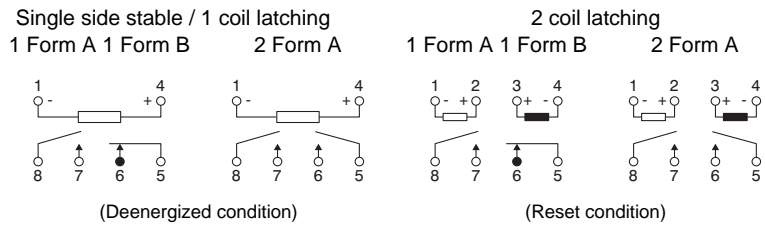
General tolerance:  $\pm 0.5 \pm .020$

**PC board pattern (Bottom view)**



Tolerance:  $\pm 0.1 \pm .004$

**Schematic (Bottom view)**



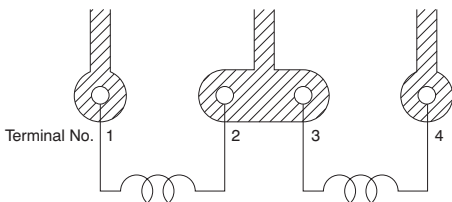
**SAFETY STANDARDS**

UL/C-UL (Recognized)		CSA (Certified)		VDE (Certified)		TV rating (UL/CSA)	
File No.	Contact rating	File No.	Contact rating	File No.	Contact rating	File No.	Rating
E43028	8A 250V AC 1/4HP 125, 250V AC 5A 30V DC	LR26550 etc.	8A 250V AC 1/4HP 125, 250V AC 5A 30V DC	1017	8A 250V AC ( $\cos\phi=1.0$ ) 4A 250V AC ( $\cos\phi=0.4$ ) 5A 30V DC	UL: E43028 CSA: LR26550	—

**NOTES**

**1. PC board patterns for 2 coil latching types**

When applying relays in power supply operation circuits for finished products regulated by the Electrical Appliance and Material Safety Law, use the pattern shown below.



**2. Soldering should be done under the following conditions:**

- 1) 250°C 482°F within 10s  
300°C 572°F within 5s  
350°C 662°F within 3s
- 2) For automatic cleaning, the boiling method is recommended. Avoid ultrasonic cleaning which subjects the relays to high frequency vibrations, which may cause the contacts to stick. It is recommended that a fluorinated hydrocarbon or other alcoholic solvents be used.

**3. When using, please be aware that**

**the a contact and b contact sides of 1 Form A and 1 Form B types may go on simultaneously at operate time and release time.**

**For Cautions for Use, see [Relay Technical Information](#).**