

FEATURES

- Max switching capacity up to 30/40A.
- PCB mounting or quick connect terminals.
- Optional mounting bracket.
- 1 Form A, 1 Form B, 1 Form C and 2 Form A arrangements



CONTACT RATINGS

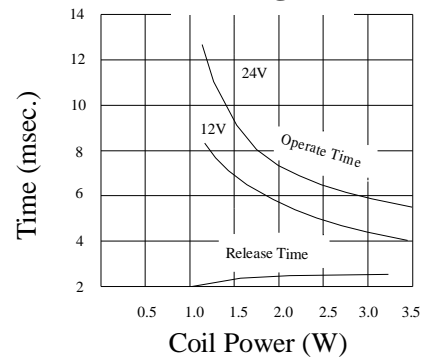
- Contact Arrangement1 Form A (SPST-NO)
1 Form B(SPST-NC)
1 Form C (SPDT)
2 Form A (DPDT)
- Max. Switching Power.....480W
- Max. Switching Voltage.....12VDC
- Max. Switching Current.....40A
- Contact Resistance..... $\leq 50m\Omega$
- Rating Load
 - 1Form A.....961: 30A 12VDC
 961A: 40A 12VDC
 - 1 Form B.....961: 20A 12VDC
 961A:30A 12VDC
 - 1 Form C.....961: NO: 30A 12VDC
 NC: 20A 12VDC
 961A: NO: 40A 12VDC
 NC: 30A 12VDC
 - 2 Form A.....961: 2 x 30A 12VDC
 961A:2 x 40A 12VDC
- Contact Material.....Ag Alloy

CHARACTERISTICS

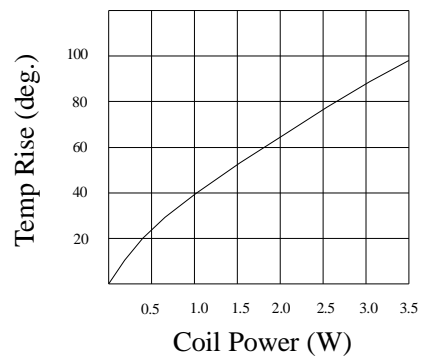
- Electrical Life..... 1×10^5
- Mechanical Life..... 1×10^7
- Initial Insulation Resistance.....Min. 100M Ω 500VDC
- Contact Resistance (Initial)..... $\leq 50m\Omega$
- Operate Time..... $\leq 10ms$
- Release Time..... $\leq 10ms$
- Initial Dielectric Strength.....50/60Hz 500VAC 1 min. (between open contact)
50/60Hz 500VAC 1 min. (between contact and coil)

961 Referential Data

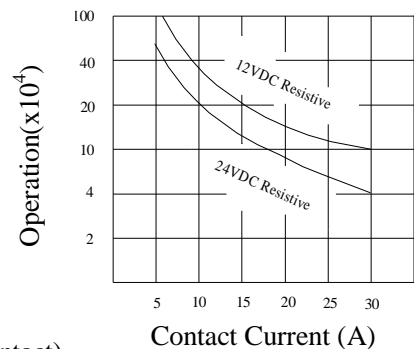
Timing



Coil Temperature Rise



Life Curves



- Vibration ResistanceMalfunction: 10 to 40Hz at Double Amplitude of 1.27mm
.....Destructive: 10 to 40Hz at Double Amplitude of 1.27mm
- Shock Resistance.....Malfunction: 10G (11ms) / Destructive: 100G (6ms)
- Ambient Temperature -40℃ ~ +85℃
- Relative Humidity.....85% at 40℃
- Unit Weight.....Approx. 30g

ORDERING INFORMATION

961 A -1C -12 D M P
1 2 3 4 5 6 7

Terminal Form.....Nil = Standard Type
.....P = P.C.B. Type

Dust Cover Type.....Nil = Standard Dust Cover
.....M = Mounting Bracket Dust Cover
.....W = Weather Proof Type

Coil Type.....D: DC

Coil Voltage.....6~24V

Contact Arrangement.....1A = 1 Form A (SPST-NO)
.....1B = 1 Form B (SPST-NC)
.....1C = 1 Form C (SPDT)
.....2A = 2 Form A (DPST-NO)

Contact Load..... Nil = 30A
..... A = 40A

Model Number.....961

COIL RATINGS (at 20℃)

COIL TYPE	Coil Nominal Voltage (V)	Coil Resistance ($\Omega \pm 10\%$)	Pick-Up Voltage (V) \leq	Drop-Out Voltage (V) \geq	Nominal Current (mA)
Standard Coils	6	22.5	3.6	0.6	267
	12	90	7.2	1.2	133
	24	360	14.4	2.4	67

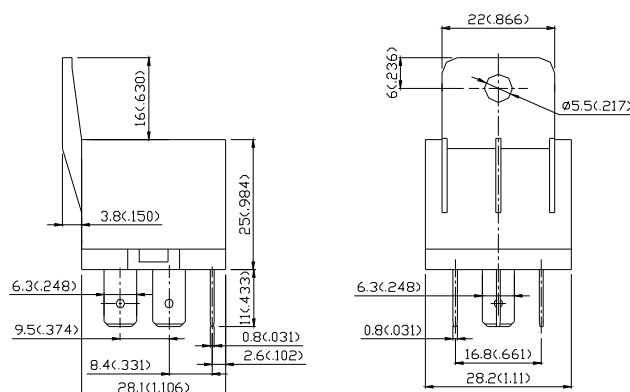
* Max Continuous Voltage at 20℃: 110% of Coil Nominal Voltage.

OUTLINE DIMENSIONS

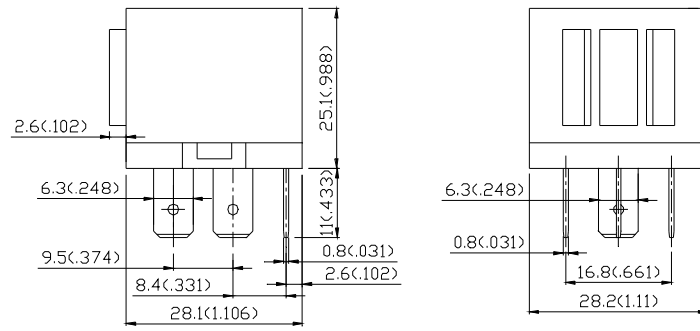
Dimensions

STANDARD TYPE

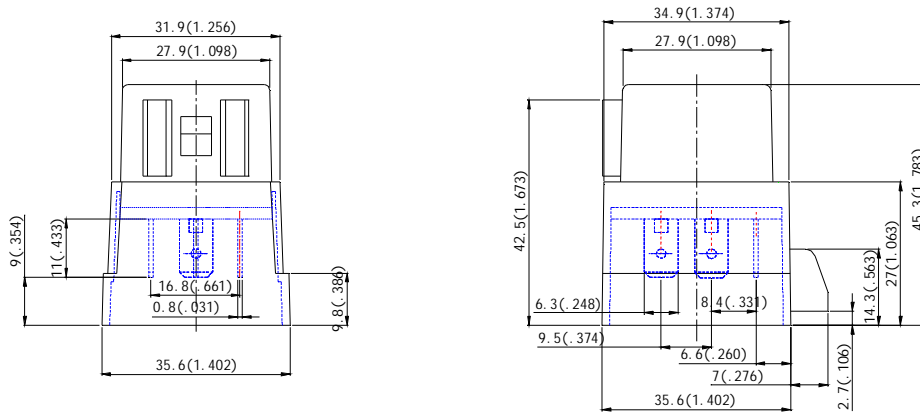
Mounting Bracket Dust Cover



Standard Dust Cover

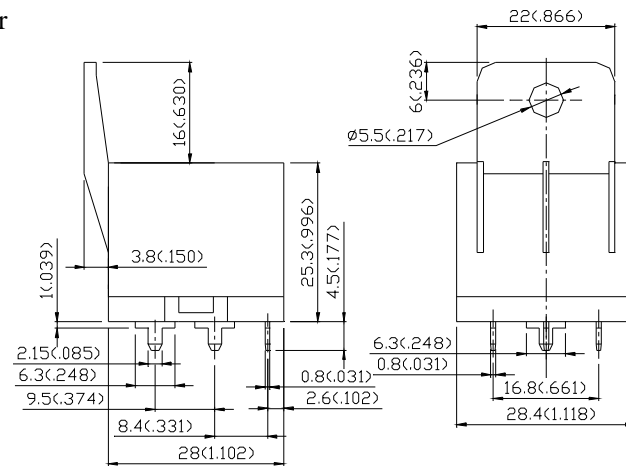


Weather Proof Type

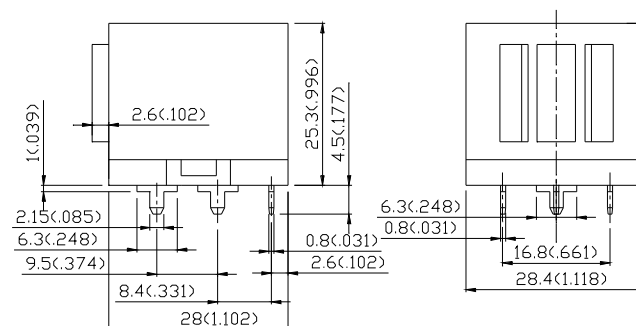


P.C.B. TYPE

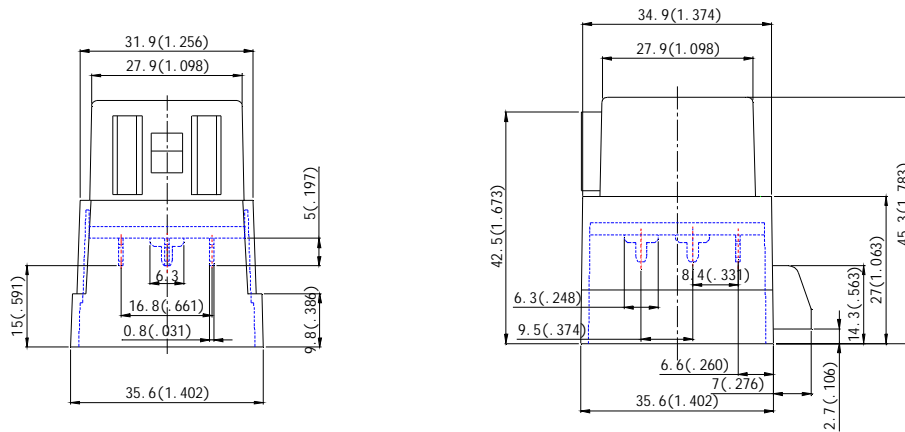
Mounting Bracket Dust Cover



Standard Dust Cover



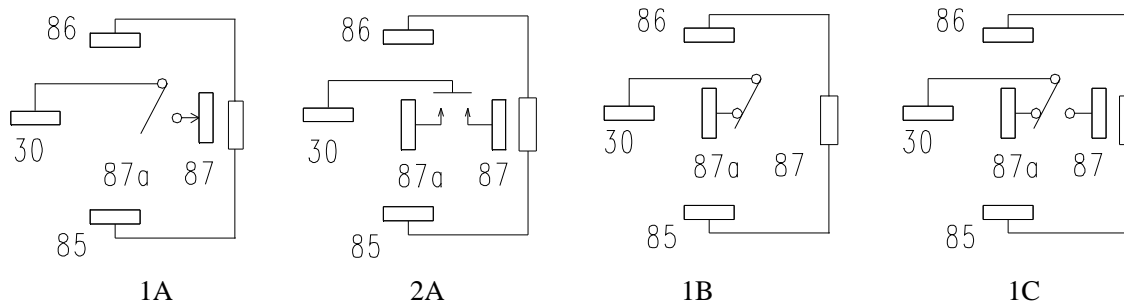
Weather Proof Type



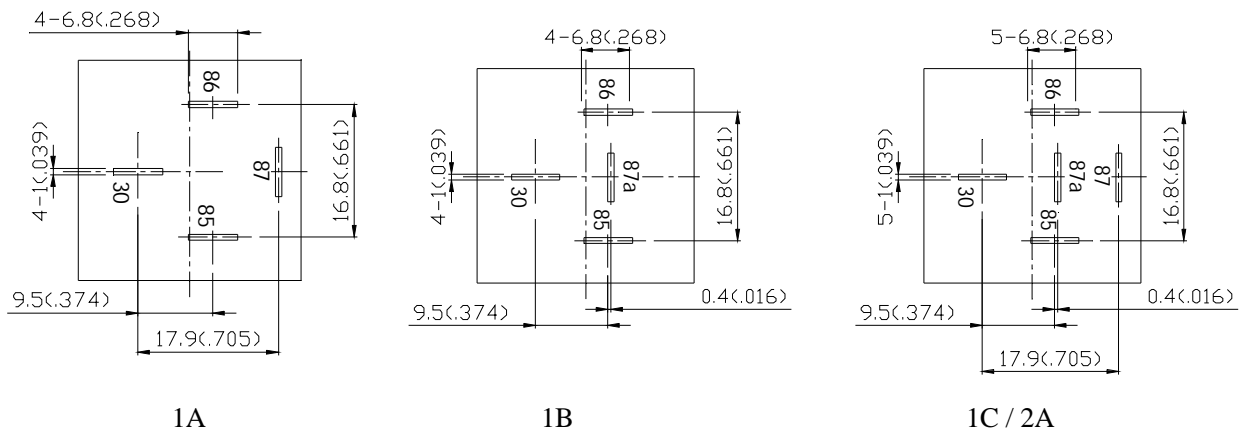
REMARK: Tolerance of outline dimensions: $\pm 0.2(.008)$.

UNIT: mm (inch)

**Internal Connections
(Bottom View)**



**Drilling Plan
(Bottom View)**



REMARK: Tolerance of outline dimensions: $\pm 0.2(.008)$.

UNIT: mm (inch)