

961 Series Relay

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



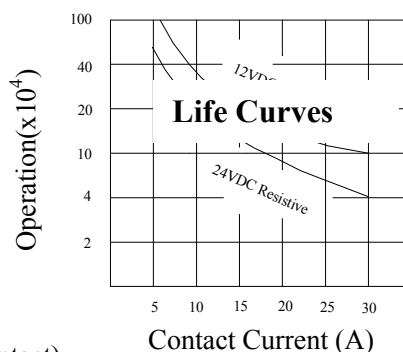
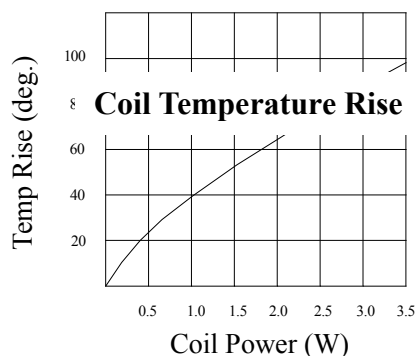
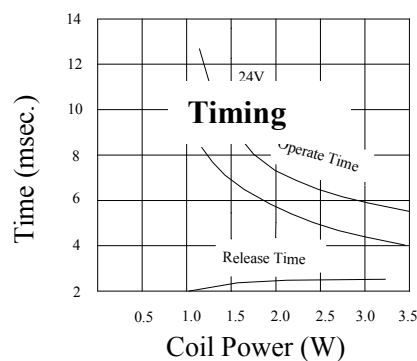
CONTACT RATINGS

- 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..... $\leq 50\text{m}\Omega$
- 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)..... $\leq 50\text{m}\Omega$
- Operate Time..... $\leq 10\text{ms}$
- Release Time..... $\leq 10\text{ms}$
- Initial Dielectric Strength.....50/60Hz 500VAC 1 min. (between open contact)
.....50/60Hz 500VAC 1 min. (between contact and coil)

961 Referential Data



- Vibration ResistanceMalfunction: 10 to 40Hz at Double Amplitude of 1.27mm

- Shock Resistance.....Malfunction: 10G (11ms) / Destructive: 100G (6ms)
- Ambient Temperature $-40^{\circ}\text{C} \sim +85^{\circ}\text{C}$
- Relative Humidity.....85% at 40°C
- Unit Weight.....Approx. 30g

961 A -1C -12 D M P

1 2 3 4 5 6 7

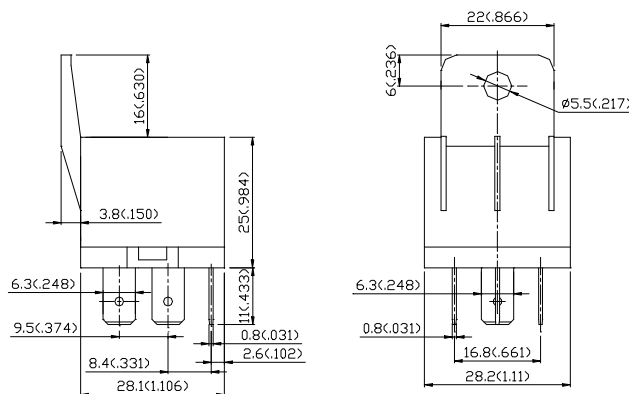
Terminal Form.....	Nil = Standard Type
.....	P = P.C.B. Type
Dust Cover Type.....	Nil = Standard Dust Cover
.....	M = Mounting Bracket Dust Cover
.....	W = Weather Proof Type
Coil Type.....	D: DC
Coil Voltage.....	6~24V
Contact Arrangement.....	1A = 1 Form A (SPST-NO)
.....	1B = 1 Form B (SPST-NC)
.....	1C = 1 Form C (SPDT)
.....	2A = 2 Form A (DPST-NO)
Contact Load.....	Nil = 30A
.....	A = 40A
Model Number.....	.961

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

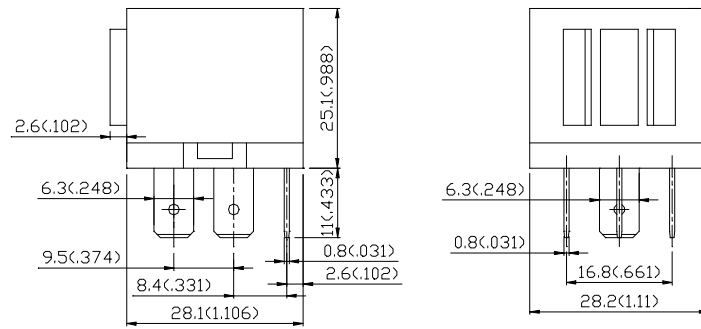
OUTLINE DIMENSIONS

STANDARD TYPE

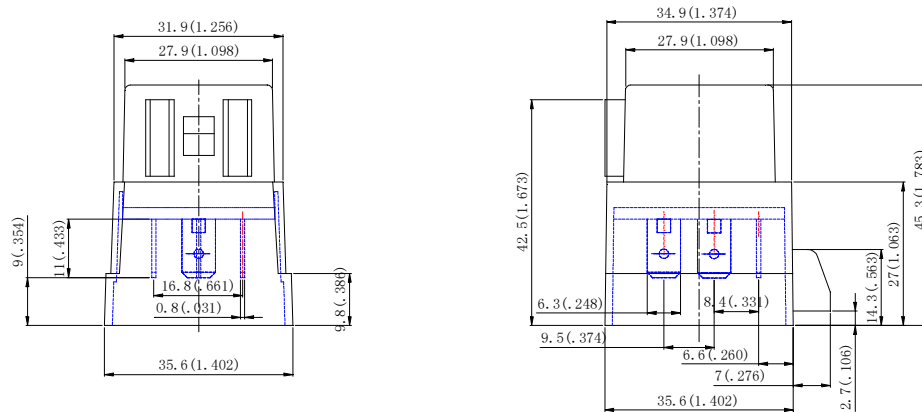
Mounting Bracket Dust Cover



Standard Dust Cover

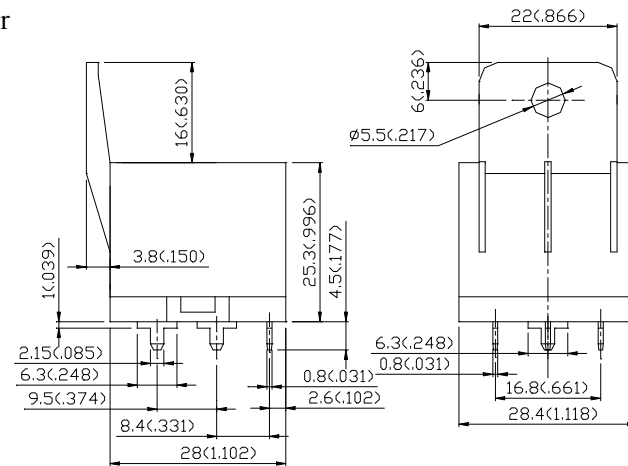


Weather Proof Type

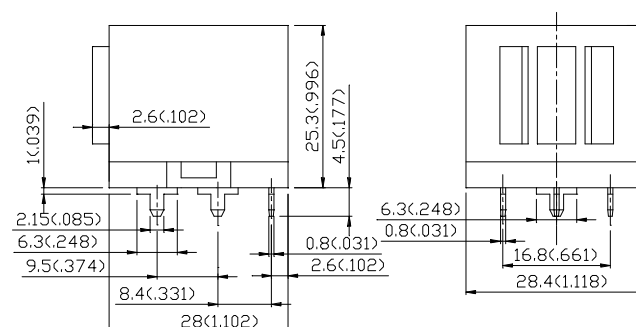


P.C.B. TYPE

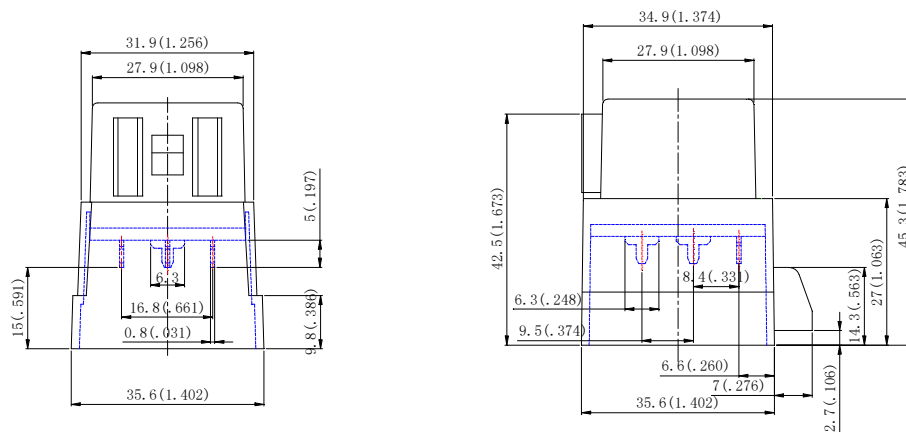
Mounting Bracket Dust Cover



Standard Dust Cover



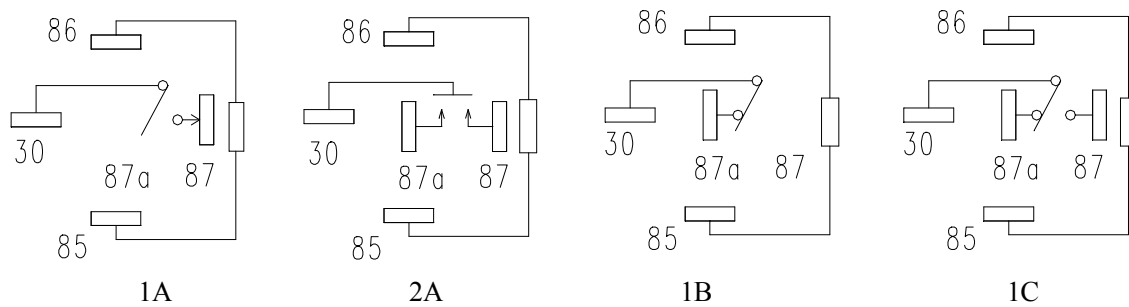
Weather Proof Type



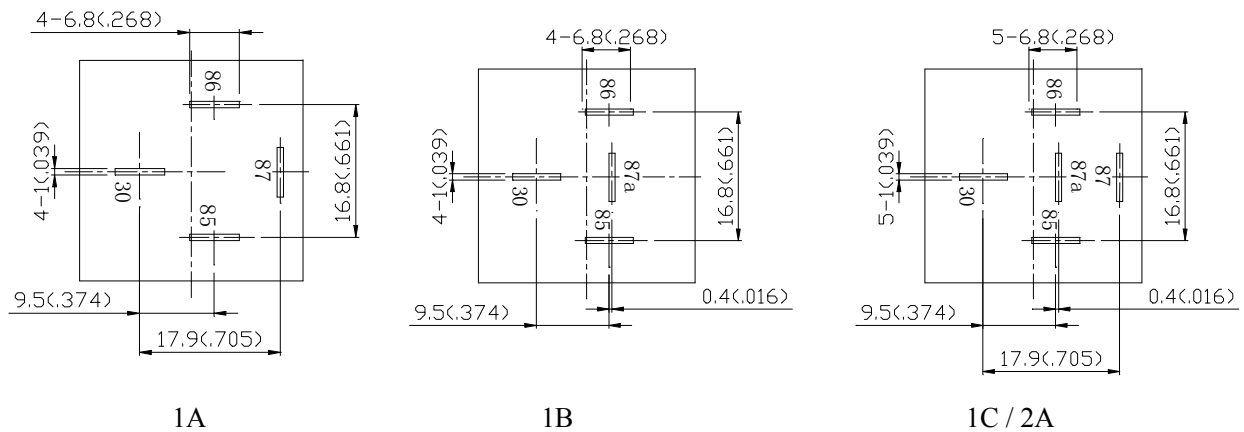
REMARK: Tolerance of outline dimensions: $\pm 0.2(0.008)$.

UNIT: mm (inch)

Internal Connections (Bottom View)



Drilling Plan (Bottom View)



REMARK: Tolerance of outline dimensions: $\pm 0.2(0.008)$.

UNIT: mm (inch)