

FEATURES

- UL & CQC safety approval.
- 30Amp, small Tab Terminal Type power relay.
- High Insulation current 65A.
- Surge strength: 4000 VAC.
- 1 Form A (SPST-NO) contact.
- Nominal power 1200mW.
- Operating power 680mW.
- Tab Terminal.
- Printed Circuit Coil Terminals Type Available.
- Small package – Meet High Density Mounting Requirement.



UL FILE NO: E169563

CQC FILE NO: CQC02001001779

CONTACT RATINGS

- Contact Arrangement.....1 Form A (SPST-NO)
- Max. Switching Power.....7500VA 840W
- Max. Switching Voltage.....250VAC 28VDC
- Max. Switching Current.....30A
- Contact Resistance..... $\leq 50\text{m}\Omega$
- Rating Load.....30A/250VAC
.....30A/28VDC
- Contact Material..... Ag Alloy

CHARACTERISTICS

- Electrical Life..... 1×10^5
- Mechanical Life..... 1×10^6
- Initial Insulation Resistance.....Min. 1000M Ω 500VDC
- Contact Resistance (Initial)..... $\leq 50\text{m}\Omega$
- Operate Time..... $\leq 10\text{ms}$
- Release Time..... $\leq 8\text{ms}$
- Initial Dielectric Strength
.....50/60Hz 1200VAC 1 min. (between open contacts)
.....50/60Hz 4000VAC 1 min. (between contacts and coil)
- Vibration Resistance
.....Malfunction: 10 to 55Hz at Double Amplitude of 1.5mm
.....Destructive: 10 to 55Hz at Double Amplitude of 1.5mm
- Shock Resistance
.....Malfunction: 10G (11ms) / Destructive: 100G (6ms)
- Ambient Temperature $-40^\circ\text{C} \sim +70^\circ\text{C}$
- Relative Humidity.....85% at 40°C
- Unit Weight.....Approx. 55g

ORDERING INFORMATION

949 - 1A - 6 D P
 1 2 3 4 5

Terminal Form.....Nil = General Type (Top: Tab Terminal)
P = Top: Tab Terminal (Bottom: P.C.B. Terminal)

Coil TypeDC
 Coil Voltage.....6~48V

Contact Arrangement.....1A = 1 Form A (SPST-NO)

Model Number.....949

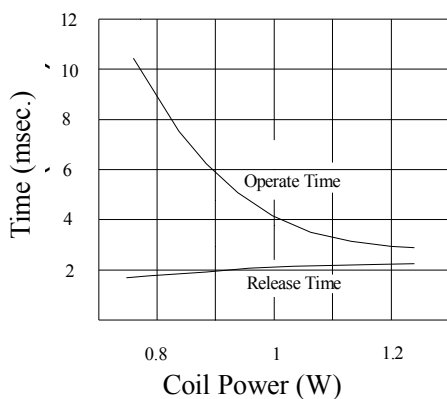
COIL RATINGS (at 20°C)

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	30	4.5	0.6	200
	12	120	9	1.2	100
	18	270	13.5	1.8	66.7
	24	480	18	2.4	50
	48	1920	36	4.8	25

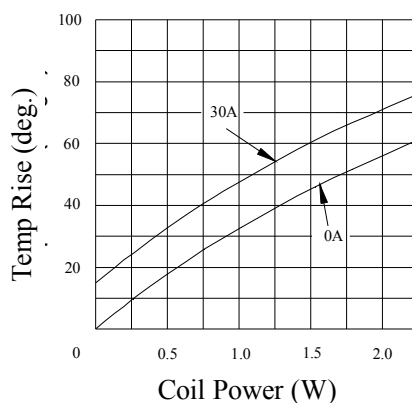
* Max Continuous Voltage at 20°C: 110% of Coil Nominal Voltage.

Referential Data

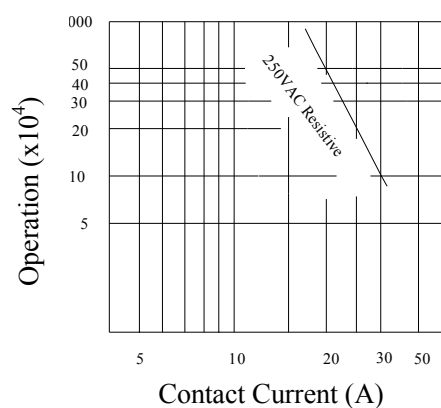
Timing



Coil Temperature Rise



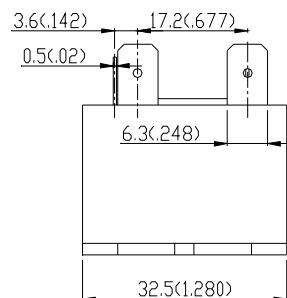
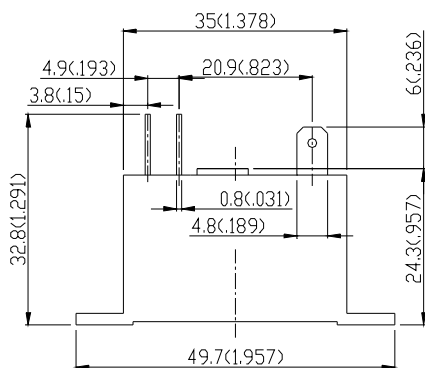
Life Curves



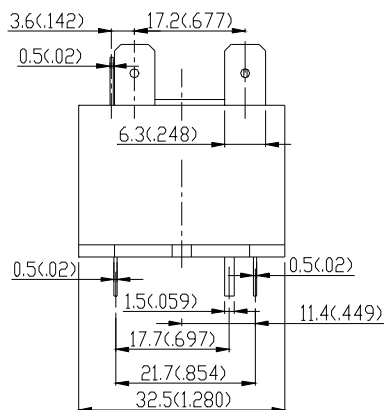
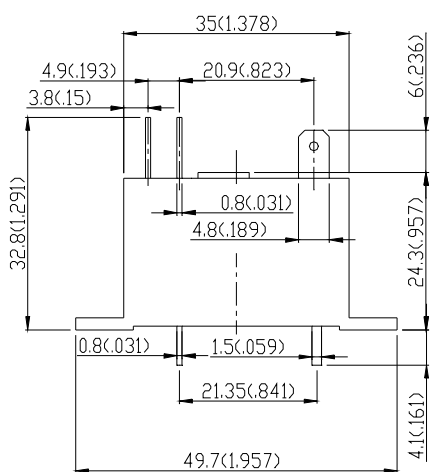
OUTLINE DIMENSIONS

Dimensions

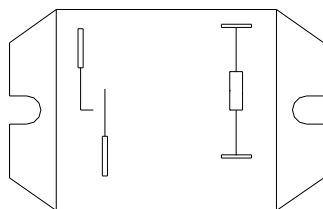
General Type



P Type

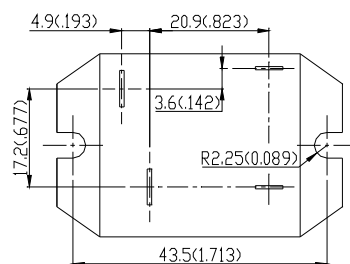


Internal Connections (Top View)



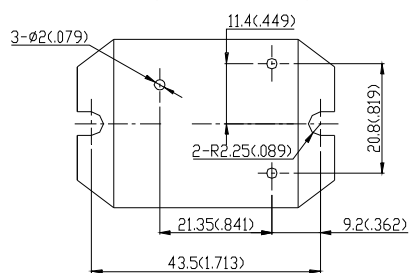
General Type

Drilling Plan (Top View)



P Type

(Bottom View)



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

UNIT: mm (inch)