

949 Series Relay

FEATURES

- UL 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

ORDERING INFORMATION

$\frac{949}{1} - \frac{1A}{2} - \frac{6}{3} \quad \frac{D}{4} \quad \frac{P}{5}$	
1.Model Number	4.Coil Type
2.Contact Arrangement	D: DC
1A = 1 Form A (SPST-NO)	5. Terminal Form
3.Coil Voltage	Nil = General Type
6~48V	(Top: Tab Terminal)
	P = Top: Tab Terminal
	Bottom: P.C.B. Terminal

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)
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℃: 130% of Coil Nominal Voltage.

CONTACT RATINGS

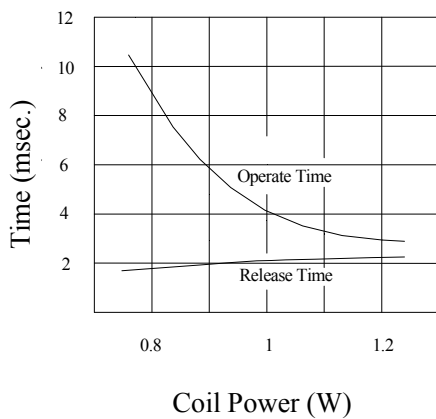
Contact Arrangement	1 Form A (SPST-NO)
Max. Switching Power	7500VA 840W
Max. Switching Voltage	250VAC 28VDC
Max. Switching Current	30A
Contact Resistance	$\leq 50\text{m}\Omega$
Rating Load	30A/250VAC 30A/28VDC
Contact Material	Ag-CdO

CHARACTERISTICS

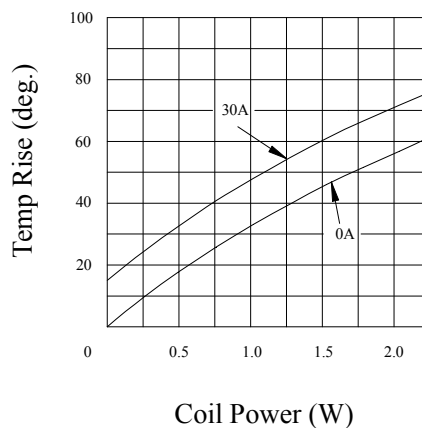
Electrical Life	1×10^5
Mechanical Life	1×10^6
Initial Insulation Resistance	Min. 1000M Ω 500VDC
Contact Resistance (Initial)	$\leq 50\text{m}\Omega$
Operate Time	$\leq 10\text{ms}$
Release Time	$\leq 8\text{ms}$
Initial Dielectric Strength	50/60Hz 1200VAC 1 min. (between open contacts) 50/60Hz 4000VAC 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

949 Referential Data

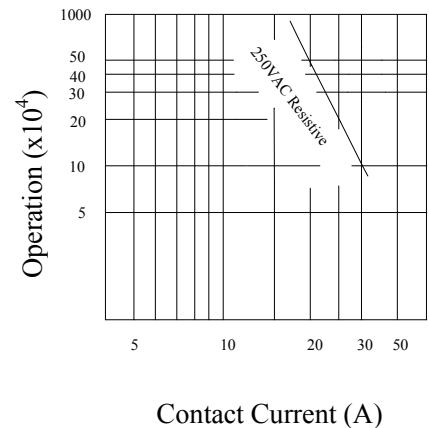
Timing



Coil Temperature Rise



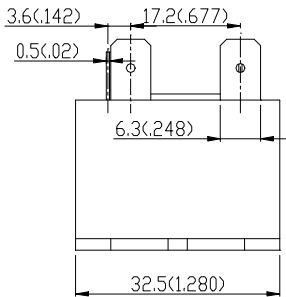
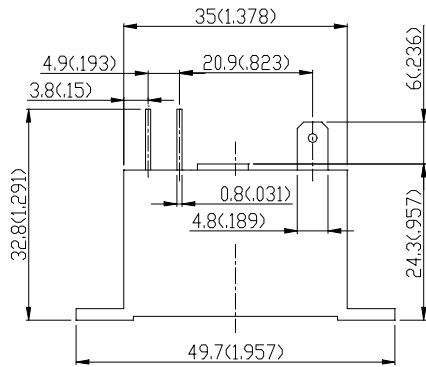
Life Curves



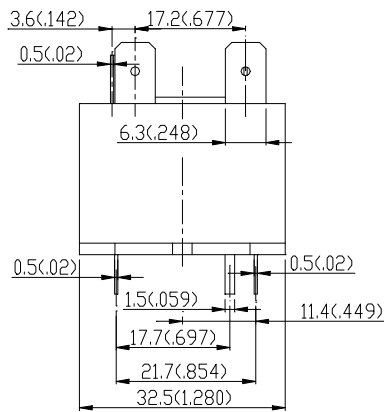
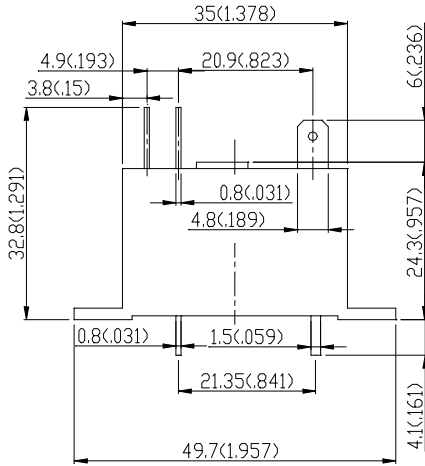
OUTLINE DIMENSIONS

Dimensions

General Type

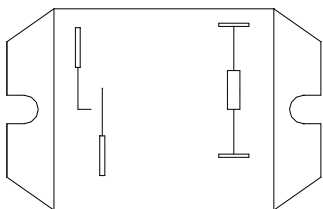


P Type

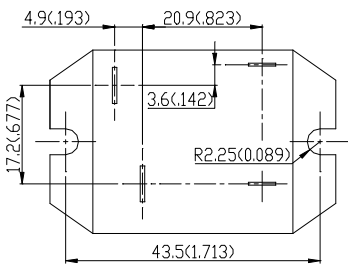


REMARK: Tolerance of outline dimensions: ± 0.2 (.008).

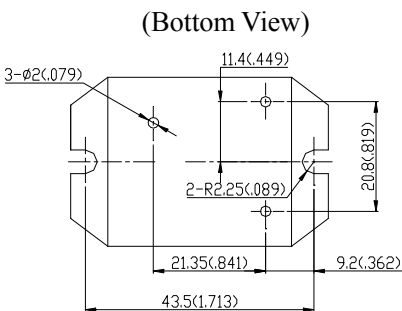
Internal Connections
(Top View)



General Type



P Type



UNIT: mm (inch)