HSIN DA

941 Series Relay

FEATURES

- UL safety approval.
- Standard type & High sensitivity type available.
- High reliability – twin contact.
- Silver palladium overlaid gold crossbar contact type suitable for lower level switching application.
- DIL pitch terminal.
- High mounting density on P.C. board due to small size and lightweight.
- Nominal power 150mW and 500mW.
- Operating power 100mW～300mW.

UL FILE NO: E162117

CONTACT RATINGS

- Contact Arrangement……2 Form C (DPDT)
- Max. Switching Power…….. 125VA 60W
- Max. Switching Voltage…….125VAC 30VDC
- Max. Switching Current…….2A
- Contact Resistance…….≦100mΩ
- Rating Load……1A/125VAC 2A/30VDC
- Contact Material…….Ag Alloy

CHARACTERISTICS

- Electrical Life…… 2×10^5
- Mechanical Life……..2×10^7
- Initial Insulation Resistance

  ……..……Min. 1000MΩ 500VDC
- Contact Resistance (Initial)…….≦100mΩ
- Operate Time……..≦6ms
- Release Time……..≦3ms
- Initial Dielectric Strength

  ……50/60Hz 500VAC 1 min. (between open contacts)

  ……50/60Hz 1000VAC 1 min. (between contacts and coil)

  ……50/60Hz 1000VAC 1 min. (between contact sets)
- Vibration Resistance

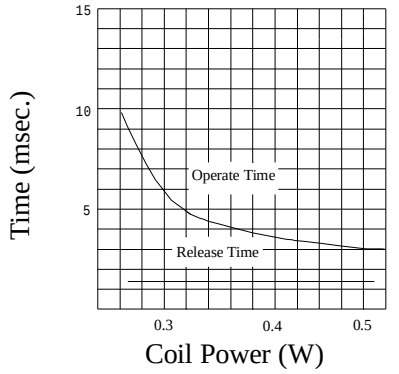
  ……Malfunction: 10 to 55Hz at Double Amplitude of 1.5mm

  ……Destructive: 10 to 55Hz at Double Amplitude of 1.5mm
- Shock Resistance

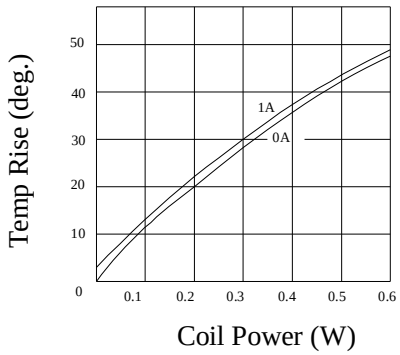
  ……Malfunction: 10G (11ms) / Destructive: 100G (6ms)
- Ambient Temperature……－30℃～＋70℃
- Relative Humidity……..85% at 40℃
- Unit Weight…….Approx. 5g

941 Referential Data

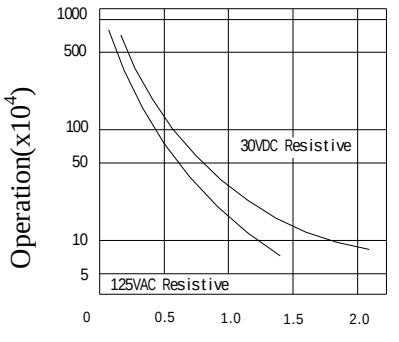
Timing



Coil Temperature Rise



Life Curves



ORDERING INFORMATION

941 H - 2C - 12 D

1 2 3 4 5

Coil Type……..…….. D: DC

Coil Voltage……..……..4.5~48V

Contact Arrangement……2C = 2 Form C (DPDT)

Coil Sensitivity……..… Nil = Standard Type

……H = High Sensitive Type

Model Number……...941

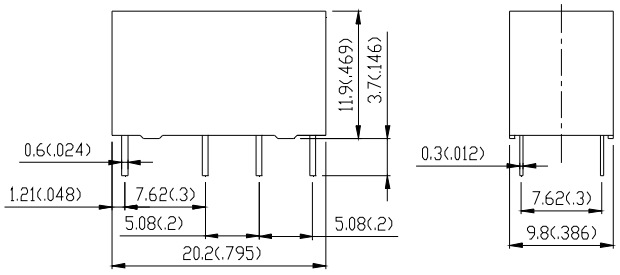
COIL RATINGS (at 20℃)

COIL TYPE	Coil Nominal Voltage (V)	Coil Resistance (Ω ±10%)	Pick-Up Voltage (V) ⩽	Drop-Out Voltage (V) ⩾	Nominal Current (mA)
DC Standard Coils	4.5	36	3.375	0.225	125
	5	45	3.75	0.25	111
	6	70	4.5	0.3	85.7
	12	280	9	0.6	42.9
	24	1070	18	1.2	22.4
	48	4300	36	2.4	11.2
DC High Sensitive Coils	4.5	135	3.6	0.225	33.3
	5	167	4	0.25	29.9
	6	240	4.8	0.3	25
	9	540	7.2	0.45	16.7
	12	960	9.6	0.6	12.5
	24	3840	19.2	1.2	6.3

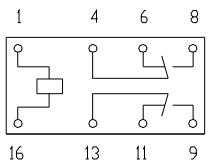
* Max Continuous Voltage at 20℃: 110% of Coil Nominal Voltage.

OUTLINE DIMENSIONS

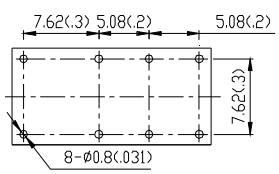
Dimensions



Internal Connections (Bottom View)



Drilling Plan (Bottom View)



REMARK: Tolerance of outline dimensions: ±0.1(.004).

UNIT：mm (inch)