

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.

CONTACT RATINGS

- Max. Switching Power...... 125VA 60W
- Max. Switching Voltage......125VAC 30VDC
- Max. Switching Current......2A
- Contact Resistance... $\leq 100 \text{m} \Omega$
- Rating Load......1A/125VAC 2A/30VDC

CHARACTERISTICS

- Mechanical Life.....2×10⁷
- Initial Insulation Resistance

......Min. 1000MΩ 500VDC

- Contact Resistance (Initial)..... $\leq 100 \text{m} \Omega$
- 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

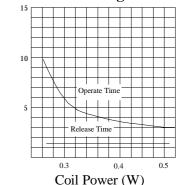
.......Malfunction: 10G (11ms) / Destructive: 100G (6ms)

- lacktriangle Ambient Temperature..... $-30^{\circ}\text{C} \sim +70^{\circ}\text{C}$
- Relative Humidity......85% at 40°C

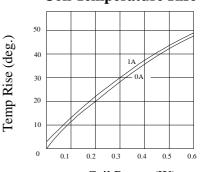


UL FILE NO: E162117

941 Referential Data Timing

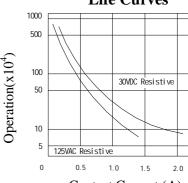


Coil Temperature Rise



Coil Power (W)

Life Curves



Contact Current (A)

ORDERING INFORMATION

941 <u>H</u> -<u>2C</u> <u>12</u> $\underline{\mathbf{D}}$ 2 3 5 1

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

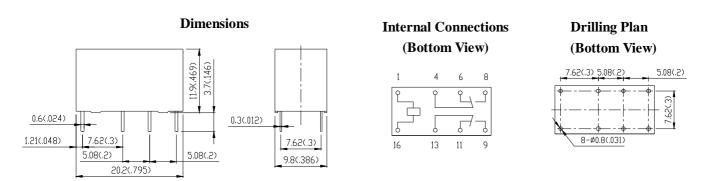
Model Number.....941

COIL RATINGS (at 20℃)

COIL TYPE	Coil Nominal Voltage (V)	Coil Resistance $(\Omega \pm 10\%)$	Pick-Up Voltage (V) ≪	Drop-Out Voltage (V) ≽	Nominal Current (mA)
	4.5	36	3.375	0.225	125
	5	45	3.75	0.25	111
DC	6	70	4.5	0.3	85.7
Standard Coils	12	280	9	0.6	42.9
	24	1070	18	1.2	22.4
	48	4300	36	2.4	11.2
	4.5	135	3.6	0.225	33.3
	5	167	4	0.25	29.9
DC	6	240	4.8	0.3	25
High Sensitive Coils	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° C: 110% of Coil Nominal Voltage.

OUTLINE DIMENSIONS



REMARK: Tolerance of outline dimensions: $\pm 0.1(.004)$.

UNIT: mm (inch)