

943 Series Relay

FEATURES

- UL, CSA & TUV safety approval.
- TV-5 rated available.
- UL Class F (155°C) coil insulation type available.
- Nominal power 360 mW.
- Operating power 200 mW.
- Heavy current up to 12 Amps.



UL FILE NO: E162117

CSA FILE NO: LR107041-1

TUV FILE NO: R9653010

CQC FILE NO: CQC02001001785

CONTACT RATINGS

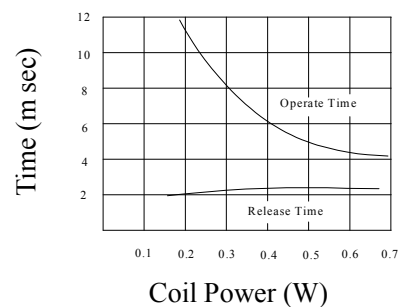
- Contact Arrangement 1 Form A (SPST-NO)
..... 1 Form B (SPST-NC)
..... 1 Form C (SPDT)
- Max. Switching Power 1750VA 210W
- Max. Switching Voltage 250VAC 30VDC
- Max. Switching Current 12A
- Contact Resistance $\leq 100\text{m}\Omega$
- Resistive Load
 - 1 Form A 15A/125VAC 12A/125VAC
7A/250VAC 7A/30VDC
 - 1 Form B / 1 Form C 12A/125VAC 7A/250VAC
7A/30VDC
- Pilot Duty Load 1.5A Break 5.4A Inrush / 277VAC
- Horse Power Load FLA 5.8A / LRA 34.8A 240VAC
- TV Rating TV-5 (SPST- NO ONLY)
- Contact Material Ag Alloy

CHARACTERISTICS

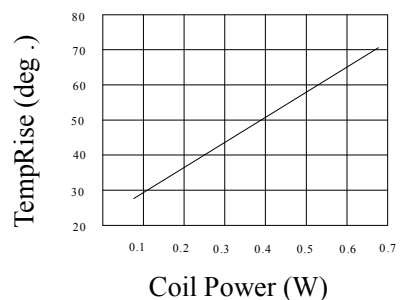
- Electrical Life 1×10^5 (12A 125VAC 3×10^4)
- Mechanical Life 1×10^7
- Initial Insulation Resistance Min. 100M Ω 500VDC
- Contact Resistance (Initial) $\leq 100\text{m}\Omega$
- Operate Time $\leq 10\text{ms}$
- Release Time $\leq 5\text{ms}$
- Initial Dielectric Strength
 - 50/60Hz 750VAC 1 min. (between open contacts)
 - 50/60Hz 1500VAC 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

943 Referential Data

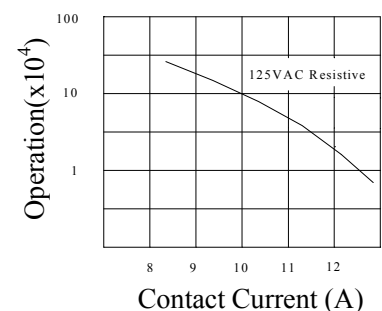
Timing



Coil Temperature Rise



Life Curves



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

ORDERING INFORMATION

943

-

1A

-

12

D

-

S

F

1

2

3

4

5

6

Type Of Insulation Nil = Class A
.....F = Class F

Enclosure.....Nil = General Type
.....S = Sealed Type

Coil TypeD: DC

Coil Voltage.....3~48V

Contact Arrangement.....1A = 1 Form A (SPST-NO)
.....1B = 1 Form B (SPST-NC)
.....1C = 1 Form C (SPDT)

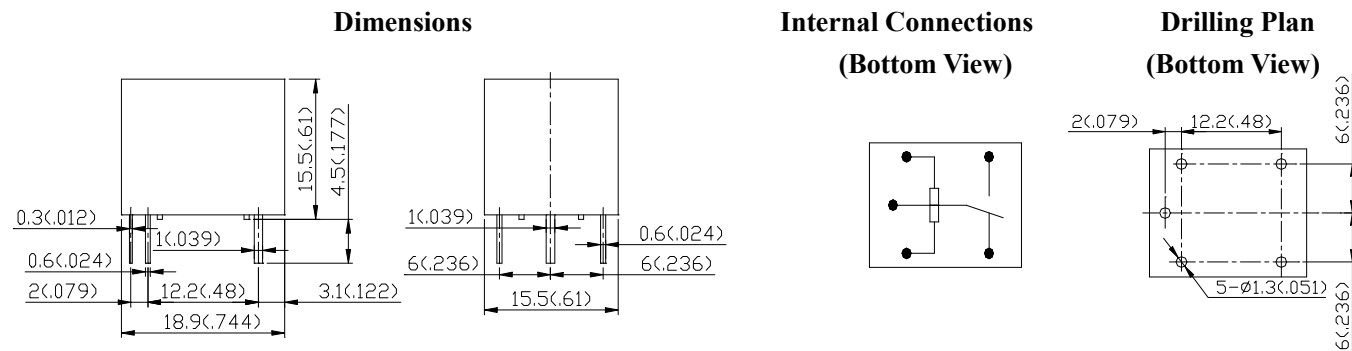
Model Number943

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	3	25	2.25	0.3	120
	5	70	3.75	0.5	71
	6	100	4.5	0.6	60
	9	225	6.75	0.9	40
	12	400	9	1.2	30
	18	900	13.5	1.8	20
	24	1600	18	2.4	15
	48	6400	36	4.8	7.5

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

OUTLINE DIMENSIONS



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

UNIT: mm (inch)

