

## 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 .....  $\leq 100m\Omega$
- 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

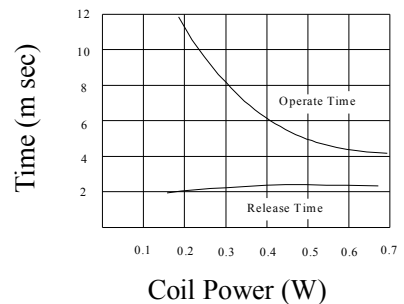
## CHARACTERISTICS

- Electrical Life.....  $1 \times 10^5$  (12A 125VAC  $3 \times 10^4$ )
- Mechanical Life.....  $1 \times 10^7$
- Initial Insulation Resistance... Min. 100M $\Omega$  500VDC
- Contact Resistance (Initial)....  $\leq 100m\Omega$
- Operate Time.....  $\leq 10ms$
- Release Time.....  $\leq 5ms$
- Initial Dielectric Strength
 

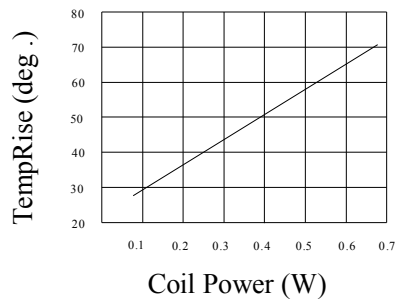
.....	50/60Hz 750VAC 1 min. (between open contacts)
.....	50/60Hz 1500VAC 1 min. (between contacts and coil)
- Vibration Resistance..... Malfunction: 10 to 55Hz at Double Amplitude of 1.5mm  
 ..... Destructive: 10 to 55Hz at Double Amplitude of 1.5mm

## 943 Referential Data

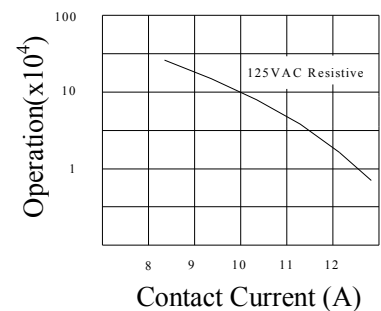
### Timing



### Coil Temperature Rise



### Life Curves



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

**ORDERING INFORMATION**

943 - 1A -12 D S - F  
 1 2 3 4 5 6

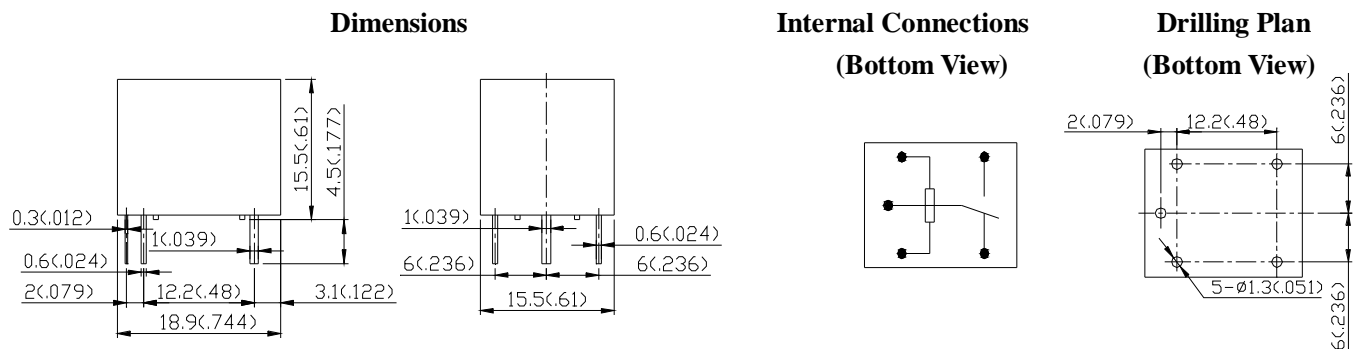
Type Of Insulation ..... Nil = Class A  
 ..... F = Class F  
 Enclosure.....Nil = General Type  
 .....S = Sealed Type  
 Coil Type .....D: DC  
 Coil Voltage.....3~48V  
 Contact Arrangement.....1A = 1 Form A (SPST-NO)  
 .....1B = 1 Form B (SPST-NC)  
 .....1C = 1 Form C (SPDT)  
 Model Number .....943

**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	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°C: 110% of Coil Nominal Voltage.

**OUTLINE DIMENSIONS**



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

UNIT: mm (inch)

