

943 Series Relay

12A, 12V Miniature Power Relays

FEATURES:

- ✓ UL, CSA, and TUV safety approval
- ✓ TV- rated available
- ✓ UL Class F(155 °C) coil insulation type available
- ✓ High sensitivity in small package
- ✓ Nominal Power 360mw
- ✓ Operating power 200mw



UL FILE NO: E162117
CSA FILE NO: LR107041-1
TUV FILE NO: R9653010

HOW TO ORDER:

<u>943</u> - <u>1A</u> - <u>12</u> <u>D</u> <u>S</u> - <u>F</u>					
1	2	3	4	5	6
1. Model Number	2. Contact arrangement 1A = 1 Form A (SPST-NO) 1B = 1 Form B (SPST-NC) 1C = 1 Form C (SPDT)		4. Coil Type D:DC	5. Enclosure Nil = General Type S = Sealed Type	
3. Coil Voltage 3~48V			6. Type of Insulation Nil = Class A F = Class F		

COIL RATINGS (20°C):

COIL TYPE	Coil Nominal Voltage(VDC)	Coil Resistance (10%)	Pick-Up Voltage(VDC)	Drop-Out Voltage(VDC)	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 :130% of Coil Nominal Voltage.

CONTACT RATINGS:

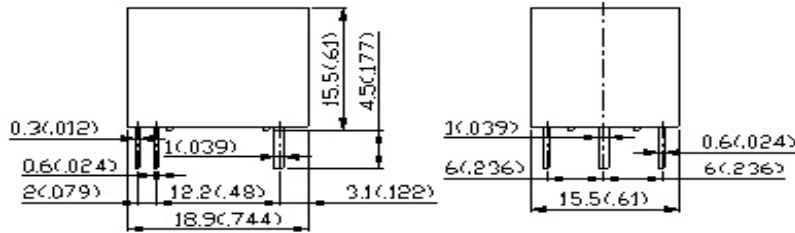
Contact Arrangement	1 Form A(SPST-NO)	1 Form B(SPST-NC)	1 Form C(SPDT)
Max. Switching Power	1750VA 210W	1750VA 210W	1750VA 210W
Max. Switching Voltage	250VAC 30VDC	250VAC 30VDC	250VAC 30VDC
Max. Switching Current	12A	12A	12A
Contact Resistance	≤100mΩ	≤100mΩ	≤100mΩ
Rating Load	12A/125VAC 7A/250VAC 7A/30VDC	12A/125VAC 7A/250VAC 7A/30VDC	12A/125VAC 7A/250VAC 7A/30VDC
Pilot Duty Load	1.5A Break 5.4A Inrush / 277VAC		
Horse Power Load	FLA 5.8 / LRA 34.8A 240VAC		
TV Rating	TV-5 (SPNO ONLY)		
Contact Material	Ag-CdO		

Characteristic:

Electrical Life	1×10^5 (12A 125VAC 3×10^3)
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 700VAC 1 min. (between open contact) 50/60Hz 1500VAC 1 min. (between all conductors)
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°C~+60°C
Relative Humidity	85% at 40°C
Unit Weight	Approx.10g

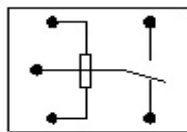
OUTLINE DIMENSION:

Dimensions

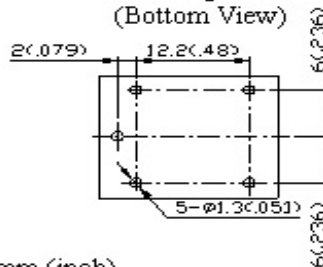


REMARK: Tolerance of outline dimensions: $\pm 0.2(.008)$.

Internal Connections
(Bottom View)



Drilling Plan
(Bottom View)



UNIT: mm (inch)

REFERENTIAL DATA:

