

957 Series Relay

FEATURES

- UL safety approval.
- 10 Amps small size relay.
- 1A (SPST-NO), 1C (SPDT) arrangements.
- Standard coils consume low power in small package.
- Nominal power 450mW.
- Operating power 250mW.
- Printed circuit terminals-fits grid with 2.54mm.
- Washable type.



UL FILE NO: E162117

ORDERING INFORMATION

$\frac{957}{1}$	$\frac{H}{2}$	-	$\frac{1C}{3}$	-	$\frac{12}{4}$	$\frac{D}{5}$	$\frac{S}{6}$	$\frac{G}{7}$
1.Model Number	4.Coil Voltage 3 ~ 48V							
2.Coil Sensitivity Nil = Standard Dielectric Strength Type H = High Dielectric Strength Type	5.Coil Type D: DC							
3.Contact Arrangement 1A = 1 Form A (SPST-NO) 1C = 1 Form C (SPDT)	6.Enclosure Nil = General Type S = Sealed Type							
	7.Contact Material Nil = General Contact G = Contact With Gold Plating							

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	20	2.25	0.3	150
	5	56	3.75	0.5	89.3
	6	80	4.5	0.6	75
	9	180	6.75	0.9	50
	12	320	9	1.2	37.5
	24	1150	18	2.4	20.9
	48	4600	36	4.8	10.4

* Max Continuous Voltage at 20°C: 130% of Coil Nominal Voltage.

CONTACT RATINGS

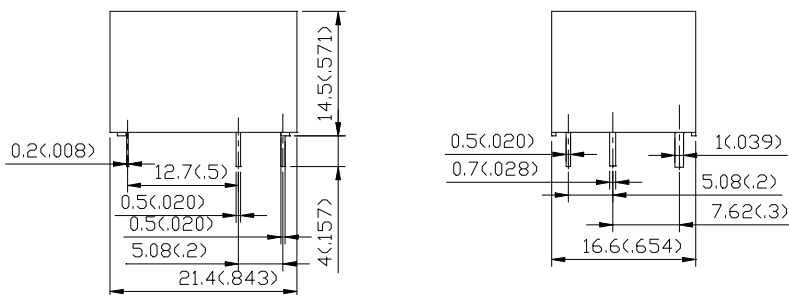
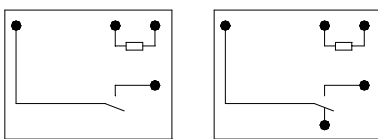
Contact Arrangement	1 Form A (SPST-NO)	1 Form C (SPDT)
Max. Switching Power	1200VA 280W	1200VA 280W
Max. Switching Voltage	240VAC 28VDC	240VAC 28VDC
Max. Switching Current	10A	10A
Contact Resistance	$\leq 50\text{m}\Omega$	$\leq 50\text{m}\Omega$
Rating Load	10A/120VAC 10A/28VDC 5A/240VAC	10A/120VAC 10A/28VDC 5A/240VAC
Contact Material	Ag-CdO	Ag-CdO

CHARACTERISTICS

Electrical Life	1×10^5
Mechanical Life	1×10^7
Initial Insulation Resistance	Min. 100M Ω 500VDC
Contact Resistance (Initial)	$\leq 50\text{m}\Omega$
Operate Time	$\leq 7\text{ms}$
Release Time	$\leq 5\text{ms}$
Initial Dielectric Strength	50/60Hz 750VAC 1 min. (between open contacts) 50/60Hz 2000VAC 1 min. (between contacts and coil)
High Dielectric Strength	50/60Hz 1500VAC 1 min. (between open contact) 50/60Hz 4000VAC 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	$-55^\circ\text{C} \sim +70^\circ\text{C}$
Relative Humidity	85% at 40°C
Unit Weight	Approx. 7.7g

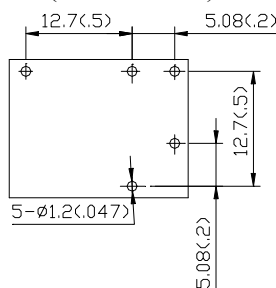
OUTLINE DIMENSIONS

Dimensions

REMARK: Tolerance of outline dimensions: $\pm 0.2(.008)$.Internal Connections
(Bottom View)

1A

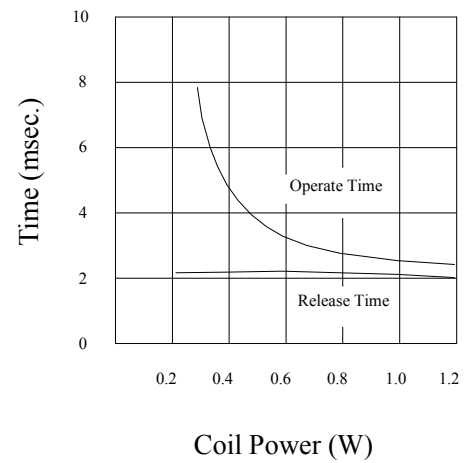
1C

Drilling Plan
(Bottom View)

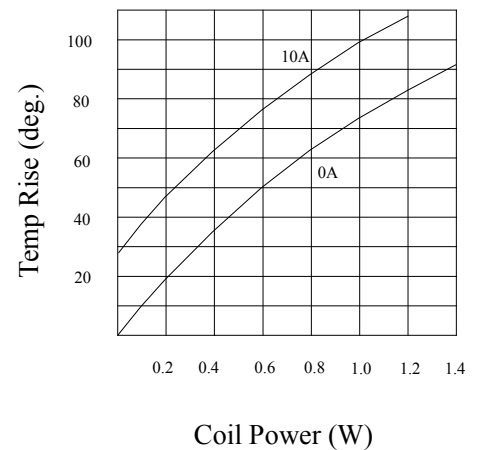
UNIT: mm (inch)

957 Referential Data

Timing



Coil Temperature Rise



Life Curves

