

## FEATURES

- Max. switch capacity up to 30/40/60A;
- High Load current is available;
- P.C.B. mounting or Quick Connect Terminals;
- 1 From A、1 From C and 1 From U arrangements;
- Optional metal bracket;
- Sealed Type relay.



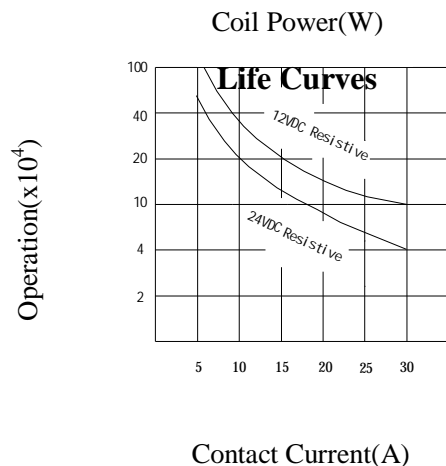
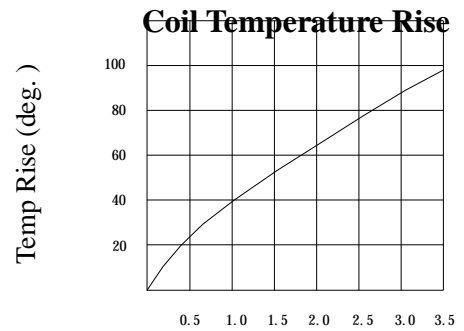
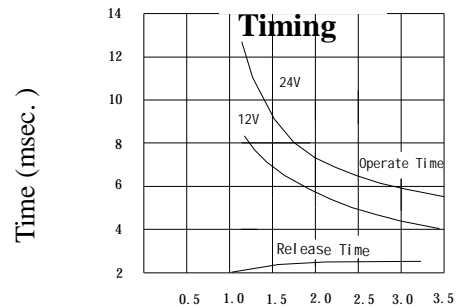
## CONTACT RATINGS

- Contact Arrangement.....1 Form A (SPST-NO)  
 .....1 Form C (SPDT)  
 .....1 Form U  
 (SPST-NO, NO with 2 Terminals)
- Max. Switching Power.....480W
- Max. Switching Voltage.....12VDC
- Max. Switching Current.....40A
- Contact Resistance..... $\leq 50m\Omega$
- Rating Load
  - Y41(1 Form A).....30A 12VDC
  - Y41(1 Form C).....NO: 30A / NC: 20A 12VDC
  - Y41(1 Form U).....30A 12VDC
  - Y41A(1 Form A).....40A 12VDC
  - Y41A(1 Form C).....NO: 40A / NC: 30A 12VDC
  - Y41A(1 Form U).....40A 12VDC
  - Y41B(1 Form A).....60A 12VDC
  - Y41B(1 Form C).....NO: 60A / NC: 40A 12VDC
  - Y41B(1 Form U).....60A 12VDC
- Contact Material.....Ag Alloy

## CHARACTERISTICS

- Electrical Life..... $1 \times 10^5$
- Mechanical Life..... $1 \times 10^7$
- Initial Insulation Resistance  
 ..... $\geq 100M\Omega$  500VDC
- Contact Resistance..... $\leq 50m\Omega$
- Operate Time..... $\leq 10ms$
- Release Time..... $\leq 10ms$
- Initial Dielectric Strength  
 .....50/60Hz 500VAC 1min (between open contact)  
 .....50/60Hz 500VAC 1min (between all conductors)

## Y41 Referential Data



● Vibration Resistance

.....Malfunction: 10~40Hz at Double Amplitude of 1.27mm  
 .....Destructive: 10~40Hz at Double Amplitude of 1.27mm

● Shock Resistance

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

● Ambient Temperature.....-40°C ~ +85°C

● Relative Humidity.....85% at 40°C

● Unit Weight.....Approx.30g

**ORDERING INFORMATION**

Y41 A- 1C - 12 D S P M - D  
 1 2 3 4 5 6 7 8 9

Optional..... Nil: General Type  
 .....R: Coil with Resistance  
 .....D: Coil with Diode  
 Dust Cover Type..... Nil: Standard Dust Cover  
 .....M: Mounting Bracket Dust Cover  
 Terminal Form.....Nil: Standard Type  
 .....P: P.C.B. Type  
 Enclosure.....Nil: General type  
 .....S: Sealed Type  
 Coil Type.....D: DC  
 Coil Voltage.....6~24V  
 Contact Arrangement.....1A: 1 form A (SPST-NO)  
 .....1C: 1 form C (SPDT)  
 .....1U: 1 Form U  
 (SPST-NO, NO with 2 Terminals)  
 Contact Rating..... Nil: 30A  
 .....A: 40A  
 .....B: 60A  
 Model Number.....Y41

**COIL RATINGS (at20°C)**

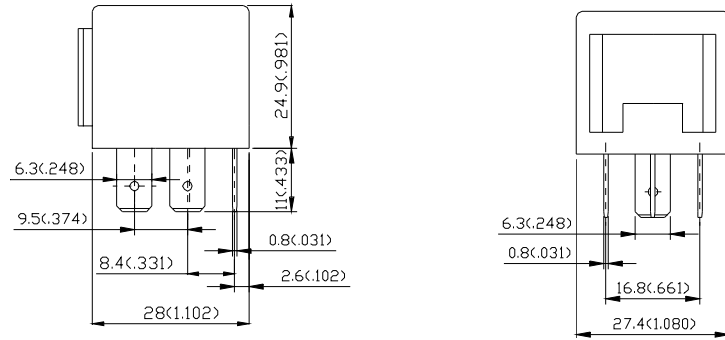
Coil Type	Coil Normal Voltage (V)	Coil Resistance (Ω ± 10%)	Pick-Up Voltage (V) ≤	Drop-Out Voltage(V) ≥	Nominal Current (mA)
DC Standard Coil	6	22.5	3.6	0.6	267
	12	90	7.2	1.2	133
	24	360	14.4	2.4	67

\* Max Continuous Voltage at 20°C; 110% of Coil Nominal Voltage

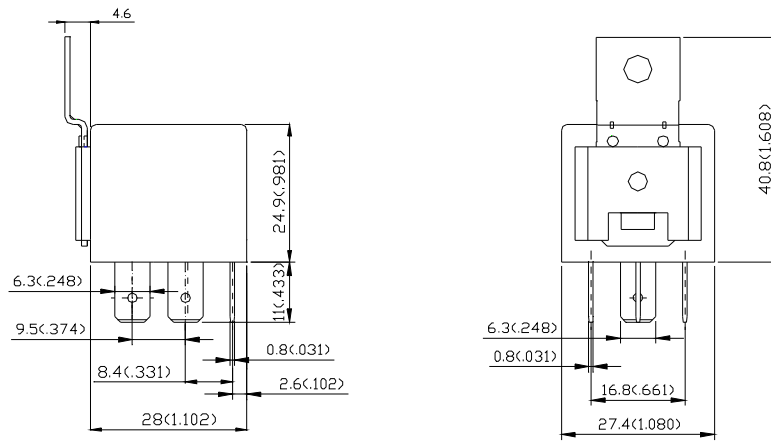
## OUTLINE DIMENSIONS

### Socket Terminal

#### Standard Dust Cover

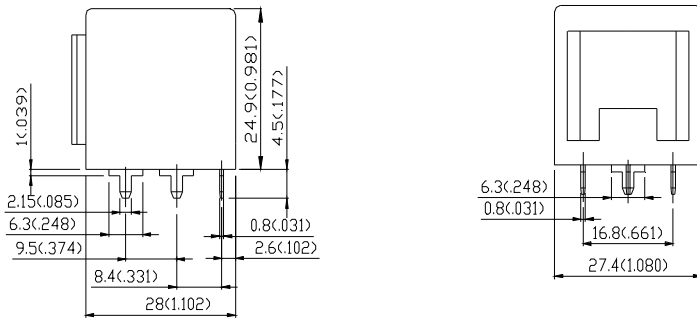


#### Mounting Bracket Dust Cover

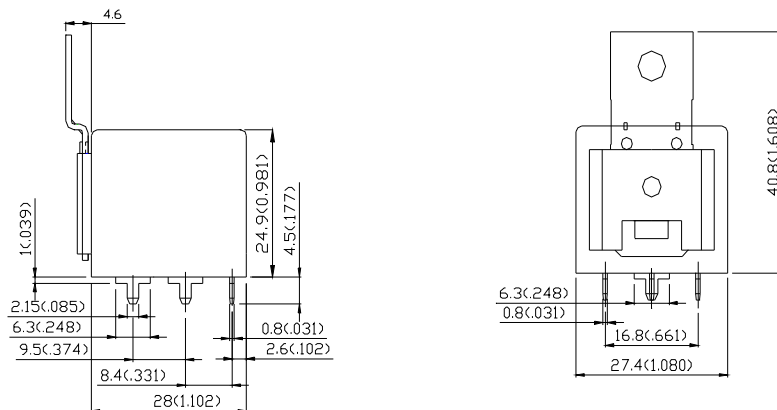


### PCB Terminal

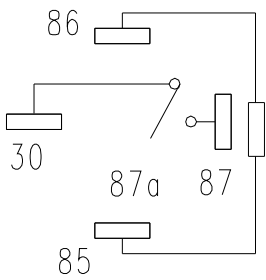
#### Standard Dust Cover



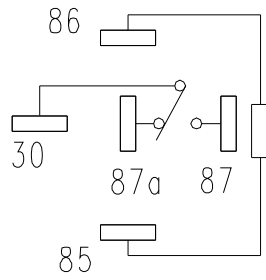
#### Mounting Bracket Dust Cover



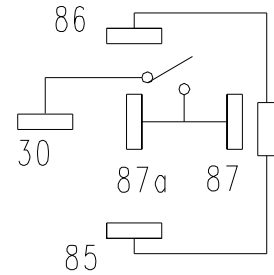
**Internal Connections  
(Bottom View)**



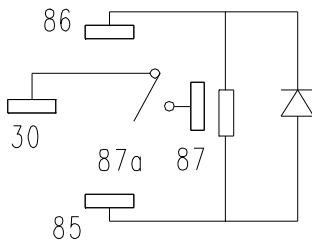
1A



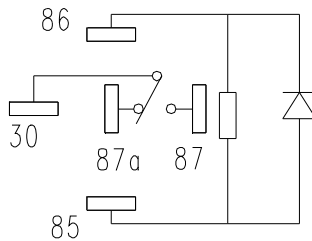
1C



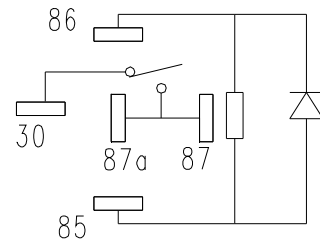
1U



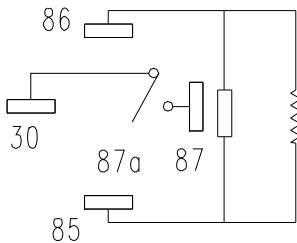
1A (Coil with Diode)



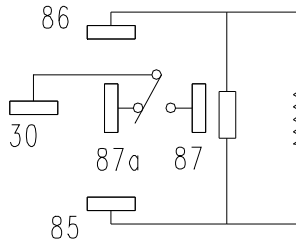
1C (Coil with Diode)



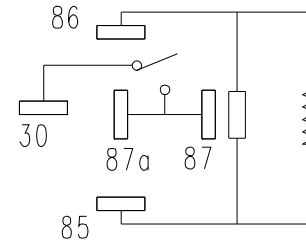
1U (Coil with Diode)



1A (Coil with Resistance)

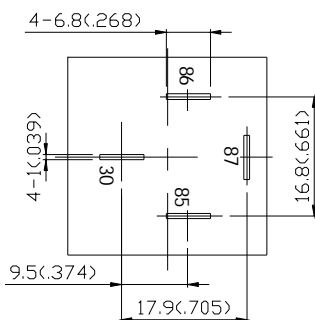


1C (Coil with Resistance)

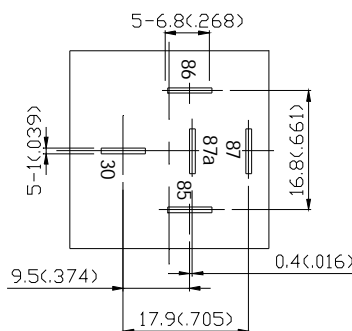


1U (Coil with Resistance)

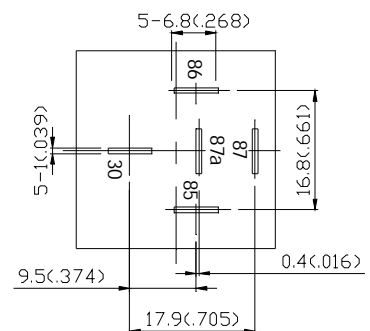
**Drilling Plan  
(Bottom View)**



1A

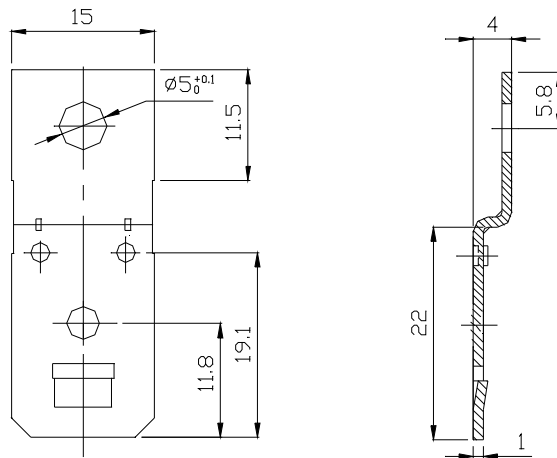


1C



1U

### Bracket



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

UNIT: mm (inch)