

## FEATURES

- Contact rated load up to 80A/14VDC.
- Contact arrangement 1Form A, 1Form C available.
- Quick connect or P.C. board terminals.
- Suitable for automobile and lamp accessories application.
- Operating ambient temperature range covers from  $-40\sim+85^{\circ}\text{C}$ .



## CONTACT RATINGS

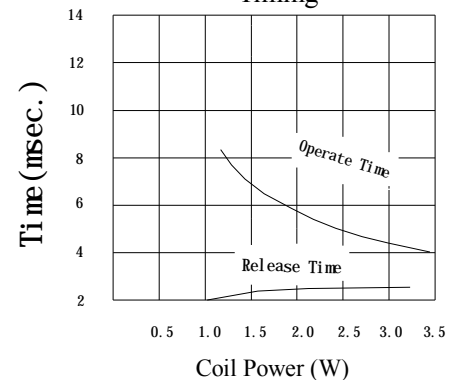
- Contact Arrangement.....1 Form A (SPST-NO)  
.....1 Form C (SPDT)
- Max. Switching Power.....1120W
- Max. Switching Voltage.....75VDC
- Max. Switching Current.....80A
- Contact Resistance..... $\leq 50\text{m}\Omega$
- Rating Load
  - 1 Form A.....80A/14VDC
  - 1 Form C.....NO: 80A/14VDC NC: 60A/14VDC
- Contact Material .....Ag Alloy

## CHARACTERISTICS

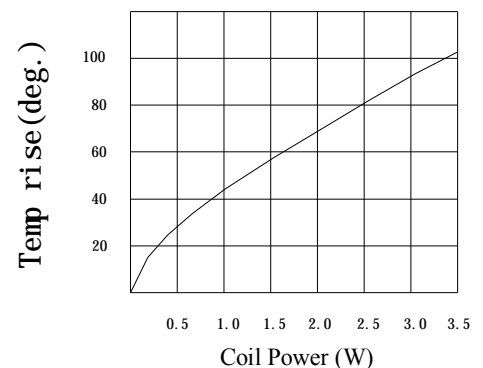
- Electrical life..... $1\times 10^5$
- Mechanical life..... $1\times 10^7$
- Initial Insulation Resistance.....Min. 100M $\Omega$  500VDC
- Contact Resistance (Initial)..... $\leq 50\text{m}\Omega$
- Operate Time..... $\leq 7\text{ms}$
- Release Time..... $\leq 5\text{ms}$
  
- Initial Dielectric Strength
  - .....50/60Hz 500VAC 1min (between open contacts)
  - .....50/60Hz 500VAC 1min (between contacts and coil)
  
- Vibration Resistance
  - .....Malfunction: 10 to 40Hz at Double Amplitude of 1.5mm
  - .....Destructive: 10 to 40Hz at Double Amplitude of 1.5mm
  
- Shock Resistance
  - .....Malfunction: 10G (11ms) / Destructive: 100G(6ms)
  
- Ambient Temperature..... $-40^{\circ}\text{C}\sim+85^{\circ}\text{C}$
- Unit Weight.....Approx. 37g

## Y16 Referential Data

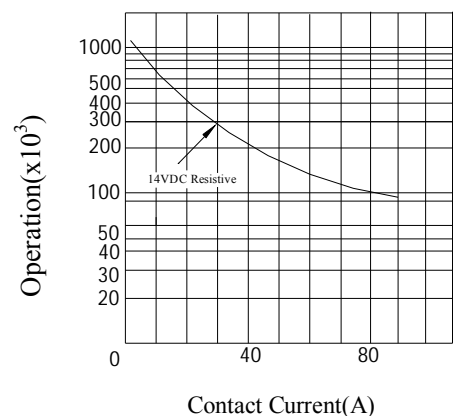
### Timing



### Coil Temperature Rise



### Life Curves



## ORDERING INFORMATION

Y16 - 1A - 12 D P M  
 1 2 3 4 5 6

Dust Cover Type.....Nil = Standard Dust Cover  
 .....M = Mounting Bracket Dust Cover  
 Terminal Type..... Nil = Plug in Type  
 .....P = P.C.B. terminal  
 Coil Type.....D: DC  
 Coil Voltage..... 6, 12, 24V  
 Contact Arrangement.....1A = 1 Form A (SPST-NO)  
 .....1C = 1 Form C (SPDT)  
 Model Number.....Y16

## COIL RATINGS (at20°C)

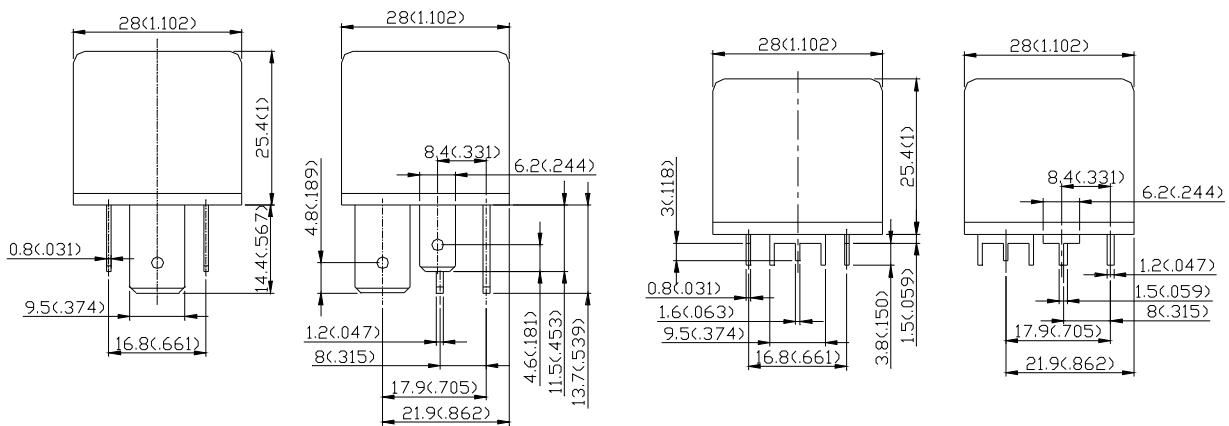
COIL TYPE	Coil Nominal Voltage (V)	Coil Resistance ( $\Omega \pm 10\%$ )	Pick-Up Voltage (V) $\leq$	Drop-Out Voltage (V) $\geq$	Nominal Current (mA)
DC Standard Coil	6	18	3.6	0.6	333
	12	72	7.2	1.2	167
	24	288	14.4	2.4	83

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

## OUTLINE DIMENSIONS

### Dimensions

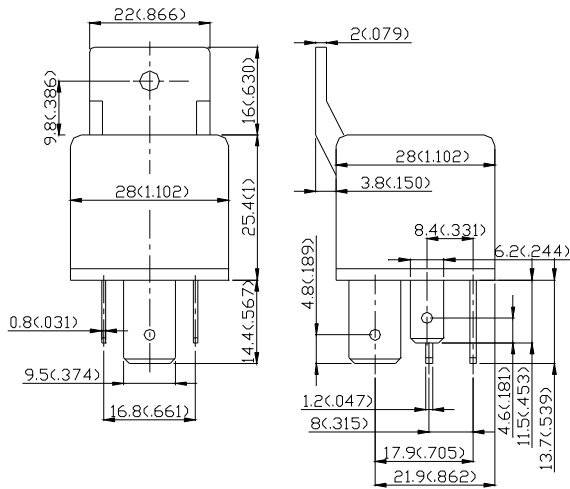
Standard Dust Cover



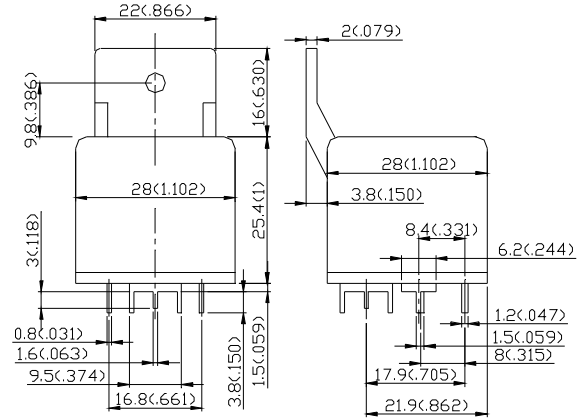
Plug in Type

P.C.B. Type

# Mounting Bracket Dust Cover

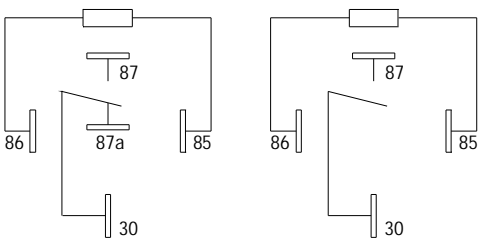


Plug in Type



P.C.B. Type

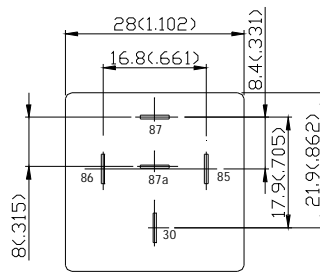
## Internal Connections (Bottom View)



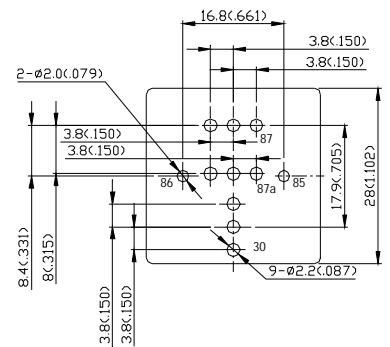
1C

1A

## Drilling Plan (Bottom View)



Plug in Type



P.C.B. Type

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

UNIT: mm (inch)