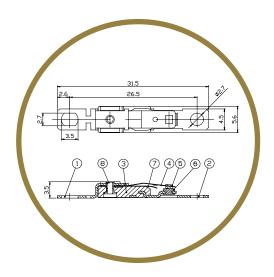


# **YS10**

# SMALL THERMOSTAT PROTECTOR

### Introduction

- High current capacity (125Vac/16A) to cut off power circuit.
- Keep small size as conventional protector MA10, and thermal sensitivity.
- Reliable long life



## **Features**

YS10 was developed to protect people and property from accidents occurring on products such as Hair Dryer/Fan heater. It is an automatic resettable, incorporated thermal cut-out (Type 2C).

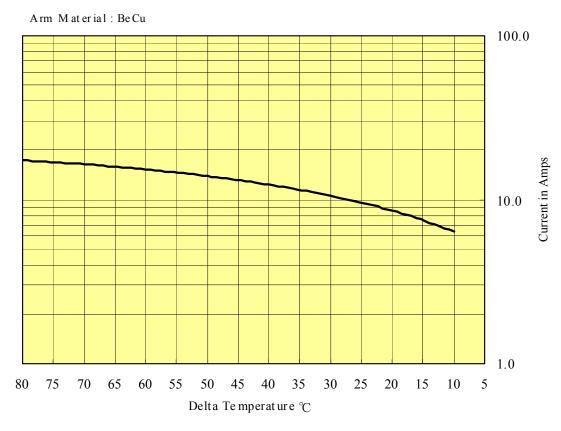
The YS10 pursued to enable to be used for higher wattage products, therefore highest current can be loaded through YS10, and directly cut off power line. But the distance of mounting holes is kept at same size as conventional protector MA10.



Contact Capacity	12(3)A 250Vac 16(3)A 125Vac
Temperature Range	± 5K
Tolerance on Open Temperature	60 to 150°C
Max. Temp. of Switch Head	150°C
Operating Time	Continuous
Pollution Situation	Norma
Extent of Sensing Element	Whole Control



YS 10 U ltimate trip current vs am bient temperature

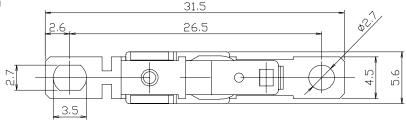


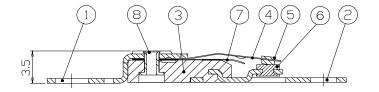


#### Dimensions in mm

Width 5.6 x Length 31.5 x Height 3.5mm Distance between each hole : 26.5mm

Hole Diameter: 2.7mm





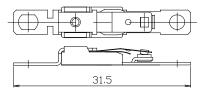
# Construction

YS10 is constructed with only few parts as a simple and open design (IP00) and based on the well known thermostat technology of Texas Instruments.

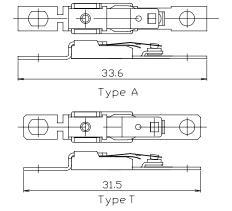
1.Upper Terminal carries current to 2.Lower Terminal which is insert molded in 3.Lower Block, via 4.Movable Arm, 5.Movable Contact and 6.Stationary Contact. All parts are riveted to hold with 8.Eyelet. Refer drawing 7.Bimetal Disc is placing under 4.Movable Arm to push it up to open Contact, when 7.Bimetal Disc sensed high ambient temperature around YS10. Heat generated by 4.Movable Arm is designed properly on a combination with operation temperature and Trip current. Therefore, user could select best choice of MUST HOLD current for their product. The YS10 is mounted by various means in conjunction with (holes in) the terminals, such that adequate creepage and clearance distances are maintained between live parts and accessible metal parts.

The electrical connections are for internal wiring only and are achieved by e.g. riveting, soldering or spot welding.

# Terminal Identification



Type S (Standard Configuration)







120°C operation temperature, BeCu Movable Arm, Standard Terminals and 30°C differential. (90°C reset)

**YS10** XXY T \_ (ZZ)

YS10 -

**Device Identification** 

#### **Temperature Code Matrix and Movable Arm Identification**

**XX:** Temperature Code Matrix

Standard Operating Temperature (°C)				
Operating Temperature	Temperature Code	Operating Temperature	Temperature Code	
60°C	56	110°C	36	
65°C	96	115°C	41	
70°C	71	120°C	01	
75°C	51	125°C	81	
80°C	91	130°C	11	
85°C	61	135°C	06	
90°C	21	140°C	66	
95°C	31	145°C	76	
100°C	26	150°C	46	
105°C	16			

Y: Movable Arm Identification

- A: Titanium Copper
- B: Beryllium Copper C: Nickel Copper D: Stainless Steel

Note: BeCu is only certified material for ENEC.

# **Termination Identification**

- S: Standard Terminals (Legnth 31.5)
  A: Both Terminals Straight (Legnth 33.6)
  T: PPS Insulator (Legnth 31.5)
- \* Standard Insulation is applied Vyloglass

#### **Differential**

Differential for Reset Temperature from Operation Temp. Blank for Standard 30°C Differential







UL	E 34618
CSA	24458
ENEC	2014531 / 17
CQC	CQC02002001338
MITI	JET99P No.0229

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