File	NO. :	DS-	H17	AM	-SM	007

SPECIFICATION OF H17AM THERMAL PROTECTOR

Designed by:	
checked by:	
Approved by:	



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H17AM Series Thermal Protector

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1 Product use

H17AM series thermal protector is the product that is sensitive to temperature & current. It is of advanced structure, small volume, sensitive in action, big contact capacity & long life. It protects against overheating & over-current in motor, electric & thermal appliance, lamp ballasts, transformers, automotive motor, integrated circuit & common electric equipment.

- 2 Structure
- 2.1 Appearance: Dimension is complied with the draw. (Refer to draw)
- 2.2 Leads: UL 3321 or AWG #18 copper core leads, black color, tinned
- 2.3 Case: The steel material used for case is plated with alloy of nickel and zinc.
- 2.4 Sleeve: Insulated sleeve is complied with electric appliance's requirement.
- 3 Capability
- 3.1 Rating Value:

20A/115V, 8A/AC250V

- 3.3 Pull trial: Terminals should endure more than 50N. And terminals should be no loose and leads have no rupture and slipping.
 - 3.4 Insulated voltage
 - a. The leads should endure AC660V after opening without arc over under duration of 1min.
- b. The outgoing lines or terminals of the thermal protector and insulated sleeves shall endure voltage of 1500V and duration of 1min, without arc over.
- 3.5 Insulated resistance: Under normal conditions, insulated resistance between leads and insulated sleeve should be more than $100M\Omega$. (By insulation measurement machine)
 - 3.6 Contact resistance: Contact resistance of thermal protector should be less than $50m\Omega$.
- 3.7 Seal trial: There is no continuous air bubble from the thermal protector, if the protector is placed in 85 deg. Water (not boiling water)
- 3.8 Hot endure trial: It will last 96 hours if the protector is placed where the ambient temperature is 150 deg.
- 3.9 Damp endure trial: It will last 48 hours if the protector is placed where the ambient temperature is 40 deg. and relative humidity is 95%.
- 3.10 Hot affect trial: It will last 5 cycles if the protector is placed where the ambient temperature is exchanged between 150 deg. and minus 20 deg. for 30min.
- 3.11 Vibration endure trial: The thermal protector should be normal after 2h in the conditions with amplitude of 1.55mm, frequency change of $10^{\circ}55Hz$, change period of $3^{\circ}5$ min, Vibration directions of X, Y and Z.
 - 3.12 Fallen trial: Let the thermal protector freely fall down 0.70m above cement ground.
- 3.13 Press endure: Let the thermal protector immerge in the sealed oilcan and give 2MPa press lasting for 24 hours.

After 3.8, 3.9, 3.10, 3.11, 3.12, 3.13 trial, the performance of the thermal protector shall meet the following requirements:

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Specification

a. Change of opening temperature shall be within $\pm 7^{\circ}$ C of the initial value.

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- b. Contact resistance should be under $50m\Omega$.
- c. Appearance should not be evident distortion.
- d. Leads should not be craze.
- e. Insulated voltage shall be complied with 3.4.
- f. Insulated resistance shall be complied with 3.5.
- 4 Circles

The Protector acts 1000 under external power in the condition of rating voltage , current and 0.7 power. the performance of the thermal protector shall meet the following requirements:

- a. Change of opening temperature should be within $\pm 7^{\circ}$ C of the initial value.
- b. Contact resistance should be less than $100m\,\Omega$. The opening temperature shall be normal after going on 5000 circles.
 - 5 Additional items
 - 5.1 During the opening temperature trial, the rate of temperature rising should be controlled by $1^{\circ}C/1min$.
 - 5.2 The case of protector can't endure strong strike and press when it is used in circuit
 - 5.3 License

UL File No.: E214731

CQC File No.: CQC04002009719

VDE File No.: 40009850

5.4 Specification

H17AM ***

Temperature (Rating opening temperature)

Product type)

6 The items which this standard have not referred or customs require shall be made additionally.

