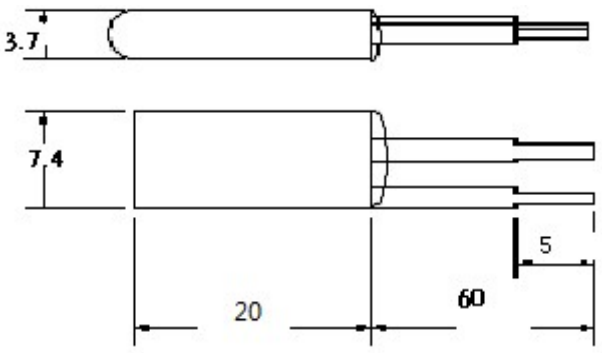
Technical Specification for Thermal protector of BR-A2D Series

1 Application:

Thermal protectors of JWa Series are sensitive to heat. They have marked character such as smallness in size, insulated case, action rapidly, enough contact capacity, long life etc. They are widely used to protect against over heat and over current in motor, heated appliance, Fluorescent Ballast, transformer, Auto motor, IC, and electric appliance.

2 Figuration & Structure:



1	外壳	SPCC	6	静触片	AgNi10/Qsn
2	底板	H65-Y2	7	底座	PPS-A7
3	双金属片	B1	8	环氧	9001A/B
4	弹簧片	YBeC1/2H	9	导线	20#3135 硅胶线
5	动触头	AgNi10/T2	10	套管	

3 Performance:

3.1 Rated Current:

10A/DC24V、10A/AC115V、6A/AC250V

3.2 Open Temperature: 45±5℃ NO

3.2.1 Rated opening temperature lists as following additional table.

3.2.2 Reset temperature lists as following additional table.

3.3 Contact resistance: Contact resistance of thermal protector should be less than 100mΩ. (By resistance measurement machine or electric bridge)

3.4 Insulated resistance:(By resistance measurement machine of DC500V)

3.4.1 Under opening status, insulated resistance between leads should be more than 2MΩ;

3.4.2 Under normal conditions, insulated resistance between leads and insulated sleeve should be more than 5MΩ.

3.5 Electric performance:(By voltage endure measurement machine)

a. Being opening status, 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 AC1500V and duration of 1min, without arc over.

3.6 Life performance: The difference between opening temperature and normal shall be not more than ±5℃ or ±5% of normal after going on 2000 circles under rated voltage.

3.7 Hotness endure trial: It will last 96 hours if the protector is placed where the ambient temperature is 150 deg. with tolerance of ±3℃.After cooling for 2 hours, and the difference between opening temperature and normal shall be not more than ±5℃ or ±5% of normal.

3.8 Coldness endure trial: It will last 16 hours if the protector is placed where the ambient temperature is -40 deg. with tolerance of ±3℃. After cooling for 2 hours, and the difference between opening temperature and normal shall be not more than ±5℃ or ±5% of normal.

3.9 Vibration endure trial: The thermal protector should be normal after lasting 90Min in the conditions of amplitude of 0.35mm, frequency change of 55Hz.(Vibration directions of X, Y and Z each lasting for 30 Min)

3.10 Pull trial: Outgoing leads should endure more than 50N in axes direction lasting for 1 Min. And leads should be no loose, no rupture and slipping.

4 Other items:

4.1 Storage:

Products should be stored in warehouse that is drafty with the relative humidity of air no more than 90%, ambient temperature between 40℃ and -5℃and having no causticity things. Additional the storage period should be one year.

4.2 Test requirement:

Air method should be used for testing the opening temperature of rule 3.2. The method should be under the condition that the rate for rising or reducing temperature should not be more than 1℃/1min, indicator light should indicate the status of product and the current for testing should not exceed 0.01A.

4.3 Package:

Being sent out factory, products should be packaged with cartons.

4.4 Specification of type:

JWa 45℃ NO

Rated opening temperature

Product type

4.5 Product inspection:

Normally inspection should be ruled by 3.2,3.3,3.5.

4.6 The case of protector can't endure strong strike and press when it is used in circuit.

4.7 We can provide the products meet to customer。

Additional Table

Reset temperature lists only for reference