

Datasheet

Item no.

- 1572273 TB05-BB5D-30 [30 degrees]/
- 1572274 TB05-BB5D-35 [35 degrees]/
- 1572275 TB05-BB5D-40 [40 degrees]/
- 1572276 TB05-BB5D-45 [45 degrees]/
- 1570936 TB05-BB5D-50 [50 degrees]/
- 1570712 TB05-BB5D-55 [55 degrees]/
- 1570937 TB05-BB5D-60 [60 degrees]/
- 1570938 TB05-BB5D-65 [65 degrees]/
- 1571469 TB05-BB5D-70 [70 degrees]/
- 1570713 TB05-BB5D-75 [75 degrees]/
- 1571470 TB05-BB5D-80 [80 degrees]/
- 1570939 TB05-BB5D-85 [85 degrees]/
- 1570714 TB05-BB5D-90 [90 degrees]/
- 1571471 TB05-BB5D-95 [95 degrees]/
- 1570940 TB05-BB5D-100 [100 degrees]/
- 1572277 TB05-BB5D-105 [105 degrees]/
- 1570941 TB05-BB5D-120 [120 degrees]/
- 1570942 TB05-BB5D-125 [125 degrees]/
- 1571472 TB05-BB5D-130 [130 degrees]/
- 1570943 TB05-BB5D-150 [150 degrees]

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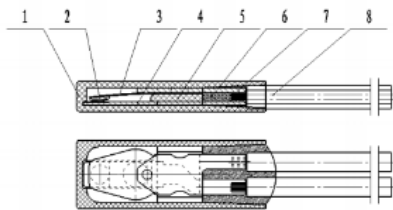
Thermal Protector with 70mm lead wire

Technical Specification Of 05 Thermal Protector

1 Usage

05 thermal protector possess the benefits of miniature size, shell insulation, sensitive in action, long life etc. Widely used in electric power points, electrical appliances, fluorescent ballasts, transformers, automobile motor, integrated circuit and general electric equipment of dual hot flow protection function.

2 Appearance and structure:



NO	Name of parts	Name of material	NO	Name of parts	Name of material
1	shell	PBT	5	Fixed block pieces	PBT
2	Floor	SPCC	6	Static contact pieces	AgNi10/BZn
3	Dual metal	30R	7	Epoxy resin	9002A, ZL-1000
4	Movable contact	AgNi10/BZn	8	Lead wire	22# 3266 20# 3135

Note: 200 ° c, heat-resistant material shell combustion level V

3 Property

3.1 Voted current (COS φ =0.7)

DC24V-10A, AC250V-5A

3.2 Disconnect temperature: 30 ~ 155 °C ,reset temperature 20~ 110 °C(see "opening and reset temperature drawing").

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3.3 Ant-tension test: Product test pins should with no fault, sliding out when bearing $\geq 20\text{N}$.

3.4 Insulation voltage:

a. Products in the lead when disconnect between AC660V shall withstand, 1min without breakdown flashover phenomenon;

b. Product leads and insulated shell, between AC1500V can withstand 2S without breakdown flashover phenomenon.(striking current is 0.5mA)

3.5 Insulation resistance: under normal conditions, fuses and insulation shell insulation resistance in 100M Ω above. (used forDC500V meter)

3.6 Contact resistance:Product contact resistance shall not be more than 50m Ω .

3.7 High temperature resistant test: The action temperature should keep in 96h in temperature of 50 ° c rated movements in air environment.

3.8 Low temperature resistance test: product should keep in 96h when in air environment - 40 ° c

3.9 Ant-vibration test: thermal protectors shall withstand amplitude, frequency changing 1.5 mm 10 ~ 55Hz,

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3.10 Drop test: products high free fall from 0.7 m.

3.11 Compression test: products shall stand 1min in100N static pressure.

3.7,3.8,3.9,3.10,3.11should meet the following requirements:

- Disconnect temperature charges in the initial value should be within +7°C
- contact resistance should be below 100mΩ ;
- appearance should be no obvious deformation;
- wires should without cracking damage.

4 Life

Products in the rated voltage, current, power factor for 0.7 conditions, plus 4,000 times that the action of heat, should satisfy as below:

- Disconnect temperature changes in the initial value should be within + 5 ° c,
- Contact resistance should be below100mΩ
continue experiment in 6000times after action。

5 Other items:

5.1 Disconnect the temperature detection heating rate should be controlled for 1 ° c / 1min, Use process cannot bear strong impact and stress.

5.2 Models of specifications

- 05——production specifications
XXX°C——voted disconnect temperature

6 This standard should separately conclude when not related to other matters or customer requirements.

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opening and reset temperature drawing

NO.	Disconnect temp.	Reset temp.	NO.	Disconnect temp.	Reset temp.
30	30 ± 3°C	≥20°C	95	95 ± 5°C	70 ± 15°C
35	35 ± 3.5°C	≥25°C	100	100 ± 5°C	70 ± 15°C
40	40 ± 4°C	≥30°C	105	105 ± 5°C	75 ± 15°C
45	45 ± 4.5°C	≥33°C	110	110 ± 5°C	75 ± 15°C
50	50 ± 5°C	≥35°C	115	115 ± 5°C	80 ± 15°C
55	55 ± 5°C	42 ± 6°C	120	120 ± 5°C	85 ± 15°C
60	60 ± 5°C	45 ± 8°C	125	125 ± 5°C	85 ± 15°C
65	65 ± 5°C	48 ± 10°C	130	130 ± 5°C	90 ± 15°C
70	70 ± 5°C	50 ± 12°C	135	135 ± 5°C	95 ± 15°C
75	75 ± 5°C	53 ± 14°C	140	140 ± 5°C	100 ± 15°C
80	80 ± 5°C	55 ± 15°C	145	145 ± 5°C	100 ± 15°C
85	85 ± 5°C	60 ± 15°C	150	150 ± 5°C	105 ± 15°C
90	90 ± 5°C	65 ± 15°C	155	155 ± 5°C	110 ± 15°C

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