Technical Specification Of HB05 Thermal Protector

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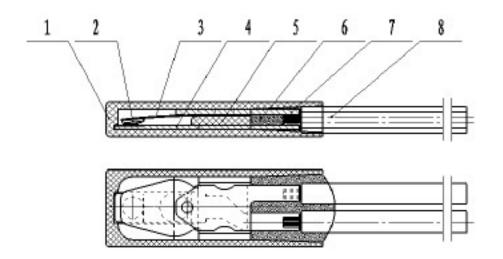
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Technical Specification Of HB05 Thermal Protector

1 Usage

HB05 thermal protector possess the benifits 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 combustic

- 3 Property
- 3.1 Voted current (00S ∮ =0. 7)

DC24V-10A、AC250V-5A

- 3.2 Disconnect temperature: 30 ° ~ 155 ~ 20 °c ,reset temperature 110 degrees Celsius (see drawing).
- 3.3: Ant-tension test: Product test pins should with no fault, sliding out when bearing >=20N.
- 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 AC1800V can withstand 1S without breakdown flashover phenomenon.
- 3.5 Insulation resistance: under normal conditions, fuses and insulation shell insulation resistance in 100M Ω above. (used forDC500V meter)
- 3.6 Contact resistance:Pproduct contact resistance shall not be more than 50mΩ.
- 3.7 High temperature resistant test: The action temperaturethe 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, scanning change cycle 3-5 times/min, vibration directionX,Y,Z, in each direction, each successive 2h vibration.
 - 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:
 - a.Disconnect temperature charges in the inditial value should be within +7°C
 - b.contact resistance should be below $100m \Omega$;
 - c.appearance should be no bovious deformation;
 - d.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:

a. Disconnect temperature changes in the initial value should be within + 5 ° c,

b.Ccontact resistance should be belowin $100m\Omega$ continue experiment in 6000times after action \circ

- 5 Othere 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

HB05—production specifications

XXX°C ——voted disconnect temperature

6 Certifications:

CQC Certification NO: CQC06002017310

CB Certification NO: CN8029
UL Certification NO: 258703

ISO9001 Certification NO: 0105Q1274ROS/3200

7 This standard should separtely conclude when not related to other matters or customer requirements.

