



BH-B2D Thermal Overload Protector Switch Small Size Bimetal Thermal Cut Out

BH series mini thermal protector's Principle and structure

BH series that can protect against over-current and over-temperature are sealed firmly, small internal resistance, no noise and reset automatically. When current through bimetal that are sensitive to temperature and current, the status of the bimetal will be changed by over-temperature or over-current to cut off circuit or switch on circuit. BH series are safer than normal protectors, as there is no temperature effect lag under condition of sudden big current.

BH series mini thermal protector's Application

It is widely applied for all kind of motors, lighting, inverter welder, switch power supply, heating appliance, rechargeable battery pack, transformer, rectifier, portable power tool, water pump, AC motor etc.



BH series mini thermal protector's specification

- Contact's type: Normally closed and Normally open
- Electrical rating:
BH-B2D & BH-A1D: 12A/DC12V;10A/DC24V;8A/AC125V;5A/AC250V
BH-TB02B-B8D:4A/DC12V;3A/DC24V;3A/AC125V;2A/AC250V
- BH-B2D & BH-A1D Circuit resistance: $\leq 50m\Omega$; BH-TB02B-B8D Circuit resistance: $\leq 30m\Omega$
- Insulation resistance: $\geq 100m\Omega$
- Action temperature range: 35~155°C
- Case: metal case and plastic case
- Life: $\geq 10,000$ times
- Size:

Model	L(mm)	W(mm)	H(mm)	Electrical rating	Lead wire(mm)
BH-B2D	15±0.3	7.3±0.2	3.8±0.1	12A/DC12V;10A/DC24V;8A/AC125V;5A/AC250V	3266-AWG#24,3135-AWG#24, or nickel strip normally, length is 70mm, or according to customer's require
BH-A1D	15±0.3	6.6±0.2	3.2±0.1		
BH-TB02B-B8D	13.5	5.4	2.4	4A/DC12V;3A/DC24V;3A/AC125V;2A/AC250V	

(9) Open temperature and reset temperature comparison table

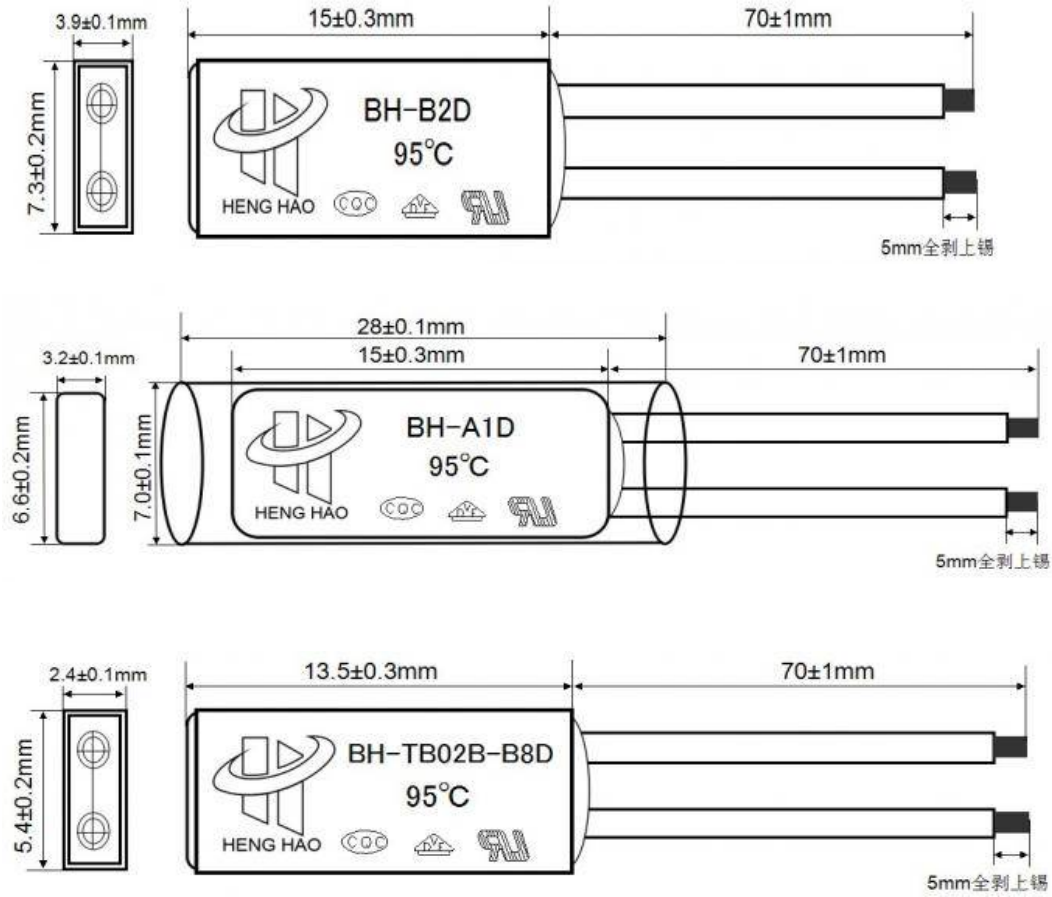
Code Number	Open	Reset	Code Number	Operating	Reset
30	30±3°C	≥20°C	95	95±5°C	70±15°C
35	35±3.5°C	≥25°C	100	100±5°C	70±15°C
40	40±4°C	≥30°C	105	105±5°C	75±15°C
45	45±4.5°C	≥33°C	110	110±5°C	75±15°C
50	50±5°C	≥35°C	115	115±5°C	80±15°C
55	55±5°C	42±6°C	120	120±5°C	85±15°C
60	60±5°C	45±8°C	125	125±5°C	85±15°C
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

BH series mini thermal protector's advantage

- Small size and installation size
- Low internal resistance, $\leq 30m\Omega$
- Snap type, sensitive to current and temperature and action quickly
- Endurance life more than 10000 cycles.
- Prevention again leak if vacuum impregnation process
- Double protection of over-current & over temperature
- Replacer of 4mm/6MM form SENSTAT, IP405/505 from ISUZU and other imported products from PEPI



BH series mini thermal protector's drawing



Products have passed UL CQC TUV ROHS certification

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