

# 3/4" Disc Type Thermostat HB-7 Series

## Snap-action thermostat 3 / 4" Bimetal thermostat Model: HB-7

The HB -7 snap action bimetal disc thermostat from Calco Electric is a versatile, cost effective design. The snap action of the temperature sensing bimetal disc provides high speed contact separation resulting in high life characteristics at loads of 25 amps @ 250 VAC.

### Features

- Available in automatic reset and single operation fuse disc.
- Available in various airstream and surface mounting configurations.

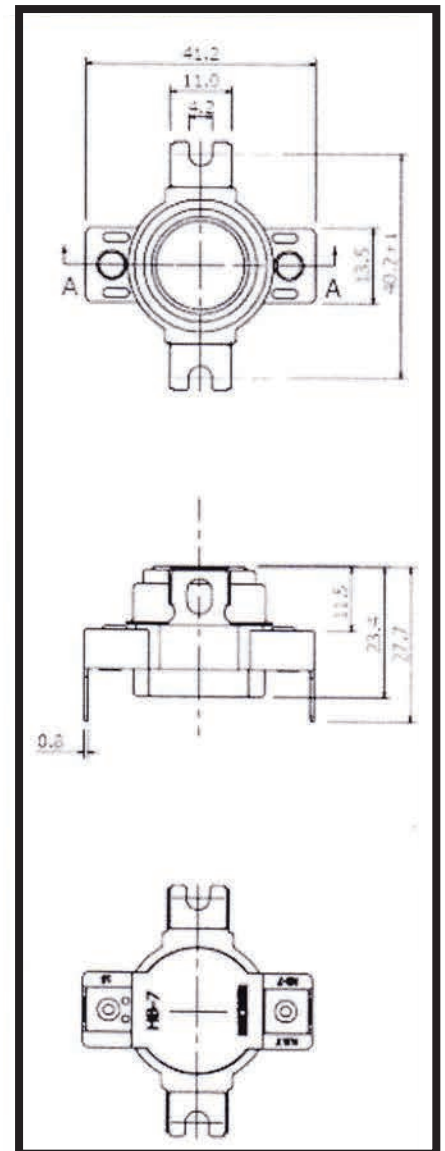
### Applications

- Water Heater
- Dishwasher
- Boilers
- Clothes dryers
- Heater
- Washing machine
- Air-conditioning, etc.



### Specifications

- Rated Voltage – Current
- 16 VDC 20 amps
- 125 VAC 25 amps
- 250 VAC 25 amps
- Temperature range -35c to 150c
- Tolerance +/-5C
- Cycles 100,000 cycles
- Approval
- CSA, UL



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## Technical Standard HB-7 Model Spec

User Name		Operating	OFF	±	5	°C
Model No	HB-7	Temperature	ON	±	5	°C

### 1. Scope of Application

This specification covers the thermostat supplied to above user.

### 2. Construction

#### A. TYPE

Single pole single throw type thermostat with Bi-metal.

#### B. APPEARANCE AND MEASUREMENT

This applies correspondingly to the attached outline drawing, but the terminal shall be withstand to axis direction and vertical direction after application of static load as follows.

SPECIFICATION	X (kgf)	Y (kgf)
250 TER'	10	5

### 3. Specification

#### A. ELEC. RATING

Rated Voltage	AC 125V	AC 250V
Rated Current	25A	25A
Minimum Current	200 mA	
Frequency	50 /60Hz	
Rated Load	resistance load	

#### B. OPERATING TEMPERATURE

Adjust a operating temperature based on mercury thermometer which shows the rising or descent rated 1°C/2 min, on the hot wind dryer with velocity 1 2m/sec, and the rated Current of thermostat shall be less than 200mA.



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### C. COLD RESISTANCE TEST

The test samples shall be complied b of 3, c of 3, d of 3 after exposing for 24 hour in a chamber maintained at temperature of  $-20\pm 3^{\circ}\text{C}$

### D. VIBRATION TEST

The test samples shall be complied b of 3, c of 3, d of 3 after exposing for 20 minutes each to X, Y, Z 3 direction at amplitude of 2mm and frequency of 500 1500 CPM.

### E. CONDITIONING TEST

The test samples shall be complied b of 3, c of 3, d of 3 after performing 10 cycles as 1 cycle at 30 minutes interval in a chamber maintained at temperature of  $-20\pm 3^{\circ}\text{C}$  after exposing for 30 minutes in a chamber maintained at temperature of  $150\pm 3^{\circ}\text{C}$ .

### F. ENDURANCE TEST

Operating temperature is to be within  $\pm 5^{\circ}\text{C}$  against initial temperature of b of 3 after contact on/off test 100,000 times at rated voltage and current.

### G. RESULT

Operating temperature is to be within  $\pm 5^{\circ}\text{C}$  against initial temperature of b of 3 after the test from a of 4 to e of 4.



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