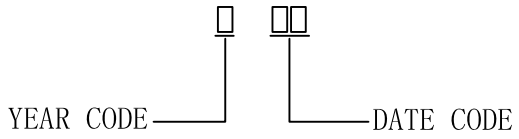
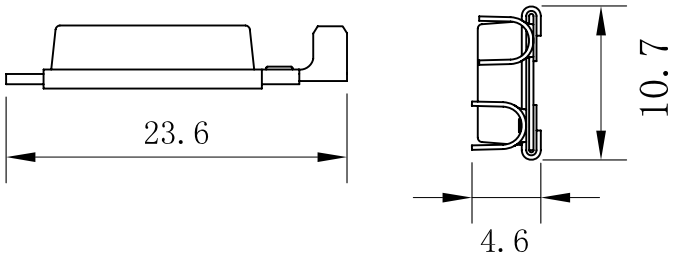
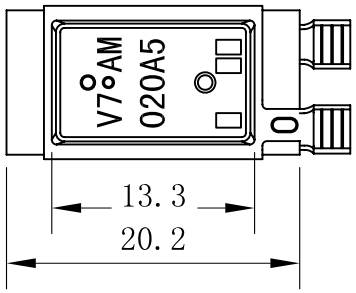
	ELECTRICITY DATA	APPROVED ELECTRICITY DATA		ENDURANCE
OPENING TEMPERATURE	65 ± 5℃	UL&C-UL873	Max. DC24V/5A	100000 cycles
CLOSING TEMPERATURE	⩾ 55℃	VDE/CQC	Max. AC240V/9A	10000 cycles
CONTACT RESISTANCE	⩽50mohm	TUV	AC250V/2A	100000 cycles







LETTER	REVISION RECORD	DATE	BY

NOTES:
Thermal Detected Side is Printed Side

FINISH:

Customer:

Part Tolerances:
X. ±1
.X ±0.6
.XX ±0.3
ANGLE ±1°

Title:
Thermostat

File No.QB-06-001

DONGGUAN TIANRUI ELECTRONICS CO.,LTD.

(MAT'L)	(Q'TY)	PART NUMBER V7AM-020A5	CHECK Joan Jin
		ACTION TYPE Snap Action	PASS Enyong Wang
SIZE A4		DWG NO. YX01-17090901	UNITS MM
SCALE:1:1 DO NOT SCALE		CUSTOMER PART NO.	REV A

DR Long 2017-09-09

SPECIFICATION FOR THERMOSTAT, MODEL V7AM-020A5

1. SCOPE OF APPLICATION

This specification covers the thermostat model V7AM-020A5

2. CONSTRUCTION

2-1.TYPE

Single pole single throw type thermostat, with disk bimetal.

2-2.APPEARANCE.

The thermostat shall be free from any stain ,crack, rust,and dirt etc.

2-3.TERMINAL STRENGTH

The terminals shall be able to withstand a static axial load of 6 KGs for 5 seconds.(The pull direction of Right Drawing)

2-4.DIMENSION

As per drawing attached.（No.YX01-17090901）

3. ELECTRICAL RATING

Rated voltage	**	**	Frequence	50HZ.60HZ
Rated current	**	**	Minimum current	200mA

**The details of the rated voltage and current are in the approvals,Please see the attachment behind.

4. INITIAL PERFORMANCE

4-1.OPERATING TEMPERATURE

Open:65±5℃ Close: ≥55℃

Measurement shall be made with the temperature increasing or decreasing rate of 1℃/2 minutes at air speed of 1 to 2 meter per second in an air circulating chamber.

Test current shall be under 200 mA .A electronic thermometer shall be used to measure temperature.

4-2. INSULATION RESISTANCE

Insulation resistance between live meter parts and dead meter parts shall be more than100 Mohm measured with a DC 500V megohmmeter.

4-3.DIELECTRIC WITHSTAND

The thermostat shall be able to withstand a potential of AC 550V for 1 second at 50 or 60 HZ, without suffering any dielectric breakdown between live and dead meter parts.

4-4. INSULATION SPACING

To comply with UL/VDE standard.

4-5.CIRCUIT RESISTANCE

The resistance between both terminals shall be less 50 mohm with DC 5V 0.25A milliohmmeter.

4-6.TEMPERATURE RISES OF CONTACT

Temperature rise of contact shall be under 40℃ with thermocouple method ,after contact temperature is stabilized at rated current.

5.DURABILITY.

5-1.REQUIRMENTS SHALL BE AS FOLLOWS UNLESS DIFFERENTLY SPECIFIED IN ITEM 5-2.

After undergoing the tests of items 5-2-1 to 5-2-6 the operating temperature of the thermostats shall not deviate more than +/-3℃ from it's initial value as mentioned in item 4-1.

After undergoing the tests of items 5-2-1 to 5-2-7 the circuit resistance (resistance between terminals) shall stay under 100 Mohms.

5-2.TESTING PROCEDURE.

5-2-1.HUMIDITY RESISTANCE TEST

Insulation resistance between the live meter parts and dead meter parts shall be greater than 10 Mohms after having been tested by exposure in a humidity chamber for 24 hours.The thermostats are tested by placing them in a constant temperature and humidity chamber with relative humidity (RII) of 90 to 95% and a temperature of 40+/-3℃.The thermostat shall be taken out of the humidity chamber,wiped clean of any moisture before this test is performed.

5-2-2.COLD RESISTANCE TEST

The thermostats shall be exposed to an ambient temperature of - 20±3℃ for 24 hours.

5-2-3.VIBRATION TEST

The thermostats shall be vibrated for 20 minutes each in three vertical directions at an amplitude of 2 mm and a frequency of 500—1500 C.P.M.

5-2-4.DROP TEST

The thermostats packed in a normal shipping carton shall be dropped on a concrete floor from a height of 1 meter.

5-2-5.HEAT RESISTANCE TEST

The thermostats shall be exposed to an ambient temperature of 150 ±3℃ for 2 hours.

5-2-6.CONDITIONING TEST

Ten cycles shall be performed at a rate of 1 cycle / 30 mimutes at an ambient temperature of 150℃ after having left the thermostats at an ambient temperature of -20℃ for 30 minutes.

5-2-7.ENDURANCE TEST

The ON/OFF test shall be performed 100,000 times at the rated voltage and current .The operating temperature shall still be within +/- 5℃ of the initial value.

6.APPROVALS.

6-1 UL&c-UL APPROVAL

The thermostat is approved by U.L&c-UL under the File E254470 & E246870

6-2 VDE APPROVAL

The thermostat is approved by VDE under the File No. 40015405

6-3 TUV APPROVAL

The thermostat is approved by TUV under the File No. R 50063371

6-4 CQC APPROVAL

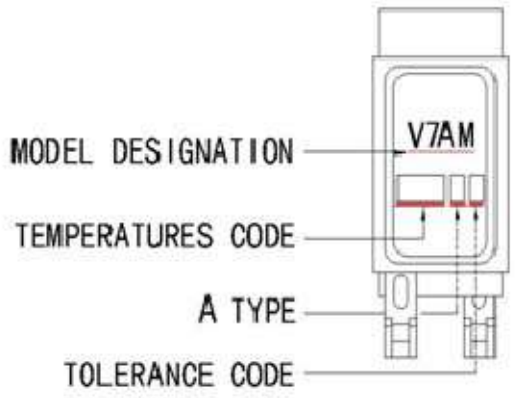
The thermostat is approved by CQC under the File No.CQC06002016931

6-5 ROHS APPROVAL

The thermostat is approved by CTI under the File No. RSNB1200301382002001

The above particular approvals are indicated in attached sheet

7.The product markings.



Tolerance Code

5	±5℃
7	±7℃