

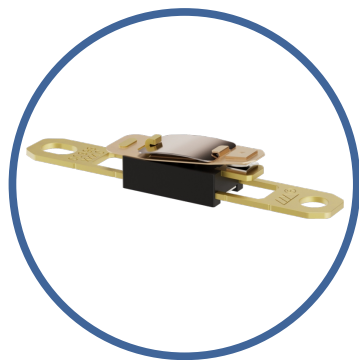
# CCS9 SERIES

Backpack - style Thermostat

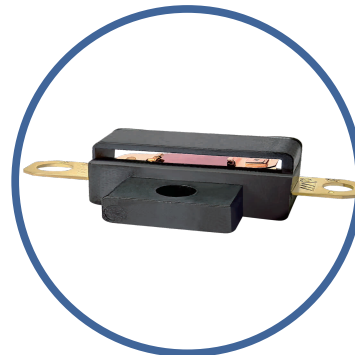


## Introduction

CCS9 series product (CCS9,CCS9A,CCS9B,CCS9C,CCS9D,CCS9E) is a kind of temperature controller that uses bimetallic piece as the temperature element

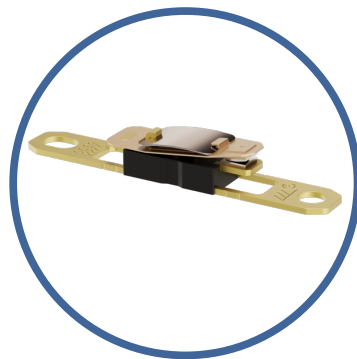


CCS9S



CCS9(Bracket Type)

CCS9



## ● CCS9 SERIES SPECIFICATIONS

### Application Range

It is widely applicable to the heat radiation control and overheating protection of various electric appliances, such as hair dryer, electric heater, dehumidifier, heating rack, stewing cup, curler, electric oven, popcorn machine, tableware dryer, etc.

### Snap-in installation

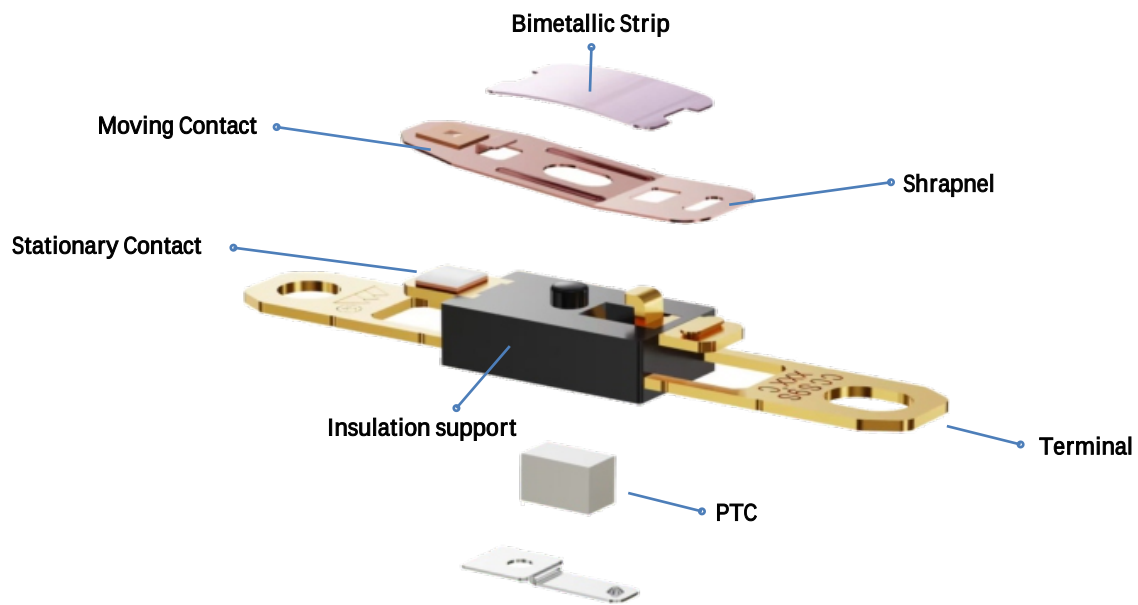
The bimetallic strip is exposed, sensitive to temperature, and the buckle type installation, could prevent the bimetallic strip losing and falling

### Composite stamping technology

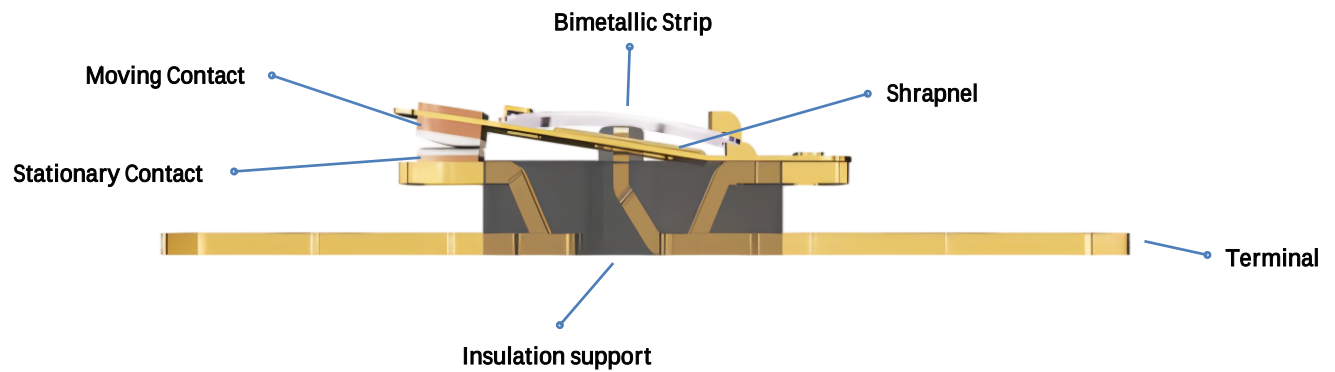
Riveting adopts compound stamping technology, and the contacts are made of new composite strip, and the composite stamping technology is used to make the contacts have larger carrying capacity, lower heating and longer service life



## CCS9 SERIES STRUCTURE



CCS9S



CCS9

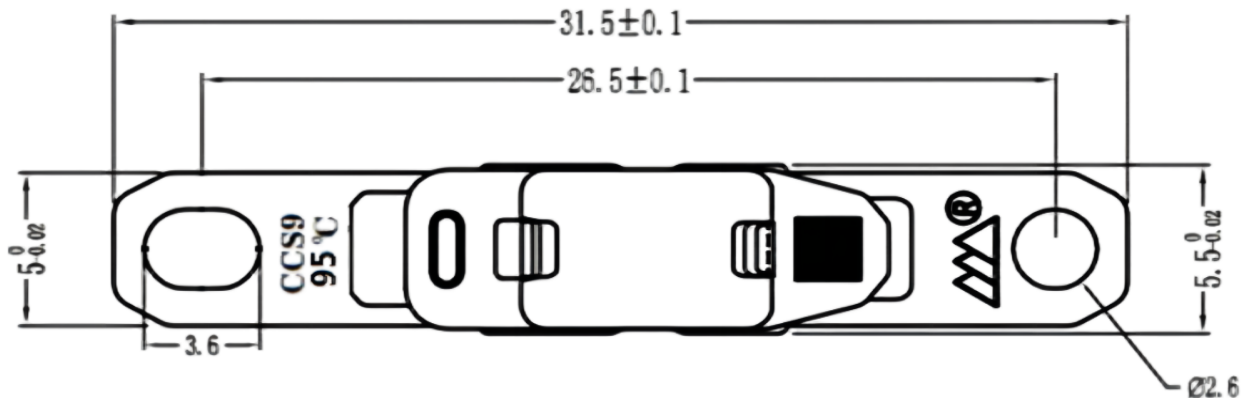




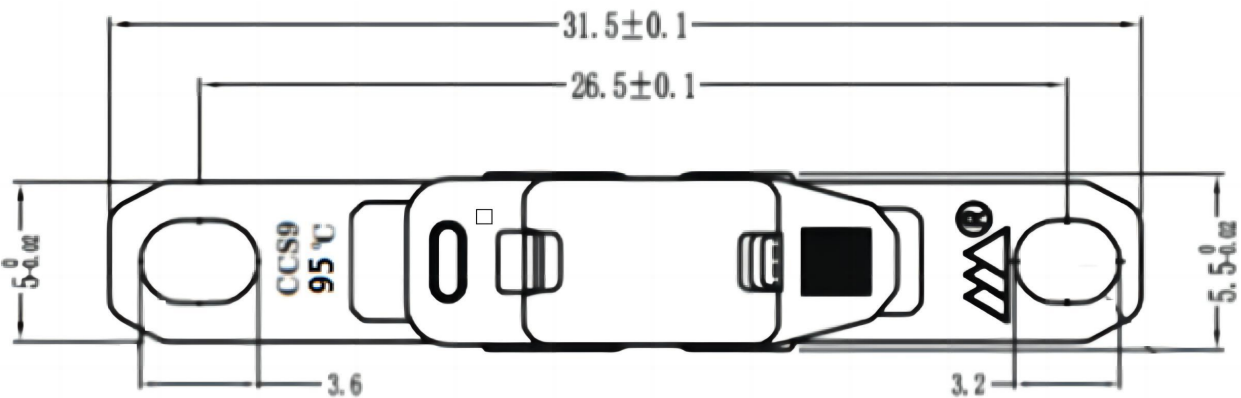
**DIMENSION AND DIAGRAMS**

Dimensions in mm (Inches)

**Small-sized mounting hole**



**Large-sized mounting hole**



## NOMINAL PERFORMANCE

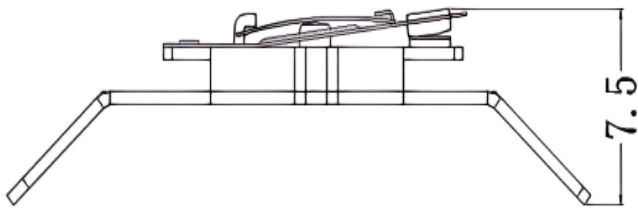
| Rated current | Max current | Acting Temperature | Reset Temperature     |
|---------------|-------------|--------------------|-----------------------|
| AC 250V/12A   | AC 125V/20A | 50-160℃            | According below table |
| AC 125V/16A   |             |                    |                       |

| Rated acting temperature | Disconnected temperature | Reset temperature |
|--------------------------|--------------------------|-------------------|
| 50℃                      | 50±5℃                    | above 30℃         |
| 55℃                      | 55±5℃                    | above 30℃         |
| 60℃                      | 60±5℃                    | above 30℃         |
| 65℃                      | 65±5℃                    | above 30℃         |
| 70℃                      | 70±5℃                    | above 35℃         |
| 75℃                      | 75±5℃                    | 35 ~ 55℃          |
| 80℃                      | 80±5℃                    | 50±15℃            |
| 85℃                      | 85±5℃                    | 55±15℃            |
| 90℃                      | 90±5℃                    | 60±15℃            |
| 95℃                      | 95±5℃                    | 65±15℃            |
| 100℃                     | 100±5℃                   | 60±15℃            |
| 105℃                     | 105±5℃                   | 65±15℃            |
| 110℃                     | 110±5℃                   | 70±15℃            |
| 115℃                     | 115±5℃                   | 75±15℃            |
| 120℃                     | 120±5℃                   | 80±15℃            |
| 125℃                     | 125±5℃                   | 85±15℃            |
| 130℃                     | 130±5℃                   | 90±15℃            |
| 135℃                     | 135±5℃                   | 95±15℃            |
| 140℃                     | 140±5℃                   | 100±15℃           |
| 145℃                     | 145±5℃                   | 105±15℃           |
| 150℃                     | 150±5℃                   | 110±15℃           |
| 155℃                     | 155±5℃                   | 115±15℃           |
| 160℃                     | 160±5℃                   | 120±15℃           |

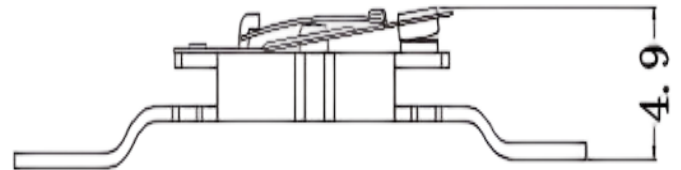
Special temperature specifications requested by customers can be customized



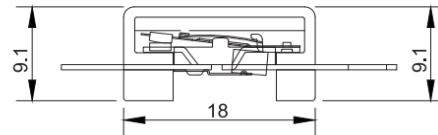
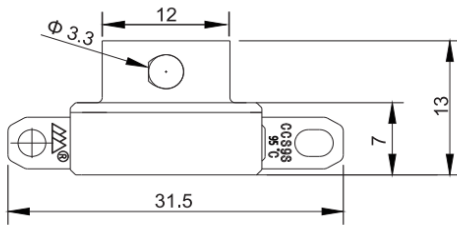
## BRACKET SPECIFICATION



**A bracket**



**B bracket**



**Manual backpack-style stand.**

### 1. Contact resistance:

In the closed state the contact resistance between the two contactor should be  $50\text{m}\Omega$  or less.

### 2. Insulation resistance:

The insulation resistance is more than  $10\text{m}\Omega$ .

### 3. Withstand voltage test:

Apply the basic sine wave test voltage (effective value) of 50Hz between the following parts of the thermostat for 1min with out flashover and breakdown.

3.1 The contact is disconnection, the test voltage is 600V between the two terminals.

3.2 The terminal and insulating support:1500V.

#### 4. Moisture-proof:

Under the ambient temperature is 25, and relative humidity is 95%, after placed 10 hours, the product could meet the item ( *With stand voltage test* ) , and the appearance and structure is normal.

#### 5. Circulation heating:

On every 2 hours, placed on at 20 and +90 temperature, after 10 times circulation, it could meet the requirements of the items ( *Acting Temperature / Insulation resistance* ) , and the appearance and structure is normal.

#### 6. Heat resisting to base :

The plastic part of base is placed in 300 temperature for 2 hours, and without burning or deformation; meet the item ( *Insulation resistance* ).

#### 7. Cold resisting

Placed the product in - 20 environment for 10 hours, the product still meet the item ( *Withstand voltage test* ) and ( *Insulation resistance* ), while the appearance and structure is normal.

7.1 The acting temperature variation to the initial value with in +/-5

#### 8. ON-OFF Endurance:

At room temperature, after 5000 tests under rated load conditions of AC 50Hz, voltage 250V and current 12A, the rated operating temperature value should be within  $\pm 5$  of the initial value ( $\pm 5\%$  of the initial value above 100), and no fusion welding occurs to the contact, continue to test 5000 times, and the rated operating temperature value should be within  $\pm 6$  after the first 5000 tests. And it still works.

#### 9. Vibration resisting:

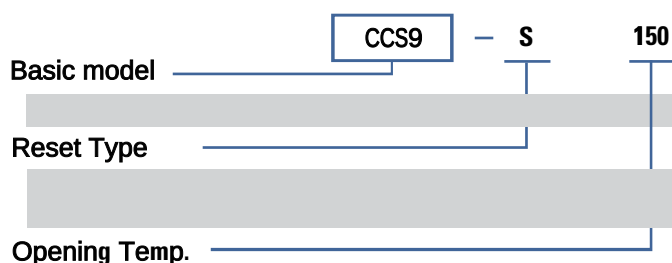
Under the vibration frequency is 50Hz, the amplitude is 0.35mm, and test lasted for 90min, the disconnected temperature should meet the item ( *Acting Temperature* )



### PRODUCT NAMING METHOD

Example : CCS9S 150

CCS9 Series



 **PRODUCT SAFETY CERTIFICATION**



**CCS9**

|                | CQC            | TUV                        | UL                         | KC              | JET         |
|----------------|----------------|----------------------------|----------------------------|-----------------|-------------|
| File           | CQC14002105346 | R50279441                  | E465826                    | XU020041-16001F | JET-24P0113 |
| Temp. Range    | 50-160         | 50-160                     | 50-160                     | 50-160          | 45-165      |
| Contact Rating | AC 250V 12A    | AC 250V 12A<br>AC 125V 16A | AC 250V 12A<br>AC 125V 20A | AC 250V 16A     | AC 125V 16A |

**CCS9S**

|                | CQC            | TUV                        | UL          |  |  |
|----------------|----------------|----------------------------|-------------|--|--|
| File           | CQC18002200617 | R530316374                 | E465826     |  |  |
| Temp. Range    | 50-170         | 50-160                     | 50-170      |  |  |
| Contact Rating | AC 250V 16A    | AC 230V 12A<br>AC 125V 20A | AC 250V 15A |  |  |



This product specification only puts forward the minimum technical requirements and not applicable to all technical requirements and standard. The seller shall provide the high-quality products and corresponding services that meet the requirements in this Technical Agreement.

The requirements of national compulsory standard concerning safety and environmental protection shall also be met.

In case the supplier not raise any objection to the terms of this specification, the supplier shall provide products that completely meet the requirements that description in the spection

If the standards used in this specification are inconsistent with those used by the supplier , the higher standards shall be applied

*Standards to follow*

*GB/T14536.1 " Automatic Electrical Controllers for House hold and Similar Use Part1: General Requirements "*

*GB/T14536.10 《Automatic Electrical Controls-Part10:Particular Requirements For Temperature Sensing Controls》*

*UL60730-2-9 《Automatic Electrical Controls For House hold and Similar Use;Part2 Particular Requirements For Temperature Sensing Controls》*

*ENIEC60730-2-9 《Automatic Electrical Controls For House hold and Similar Use; Part2:Particular Requirements For Temperature Sensing Controls》*

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