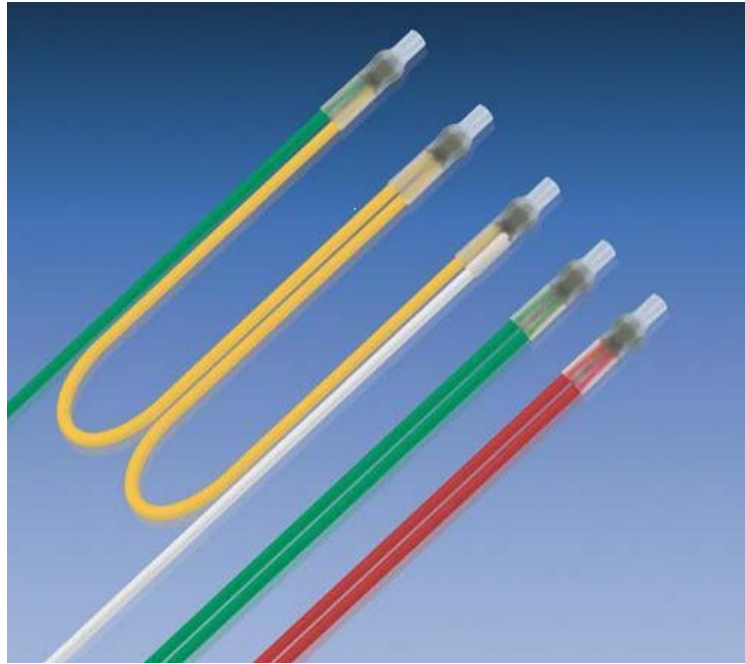


Product For Motor Protect



**Application**

The sensors can be widely used at those work sites which need overheat protection. When the sensors are fixed in those facilities that need overheat protection, they are able to keep the facilities from accidents and damages caused by overheating.

**Features**

The sensors are the special ones used for overheat alarm and protection. They are made from the advanced technology introduced from abroad. PTC temperature-controlled sensors are made of mini heat-variable resistors. They are of small size, endurance strength, good stability and excellent sensitiveness. All the technical criteria have reached the level of the same products in the world.

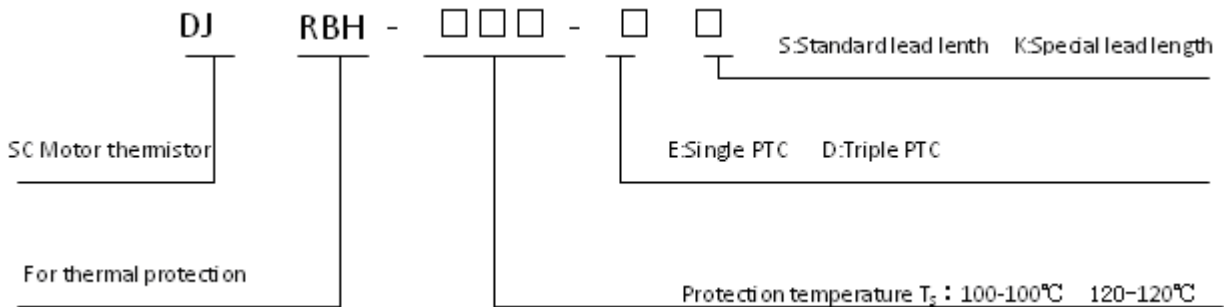
**Usage**

In operation, you may use one piece or several pieces connected in series, which can control the temperatures at different points and are good to reduce the cost.

**Technical data**

The controlled temperatures of the sensors range from TK30°C to TK180°C. There is a 5°C interval between the controlled-temperature TK according to the specification. We are able to make such sensors between one and six cores according to customers' requirements.

**Indication of type**



- 1:DJ-- SC Motor thermistor
- 2:RHB-- For thermal protection
- 3:140 Temperature of the temperature-controlled point (TK)
- 4:D 3-core Z 2-core E 1-core V 4-core S 6-core
- 5: S: Standard length of lead-out wire 500 200 200 500 Standard length of lead-out wire
- K: The length of customers' special lead-out wire

S:Standard lead lenth K:Special lead length

Note: The above examples of type are for the sensors which have 1 cores, the standard length

of lead-out wire and the controlled-point of temperature is 140°C

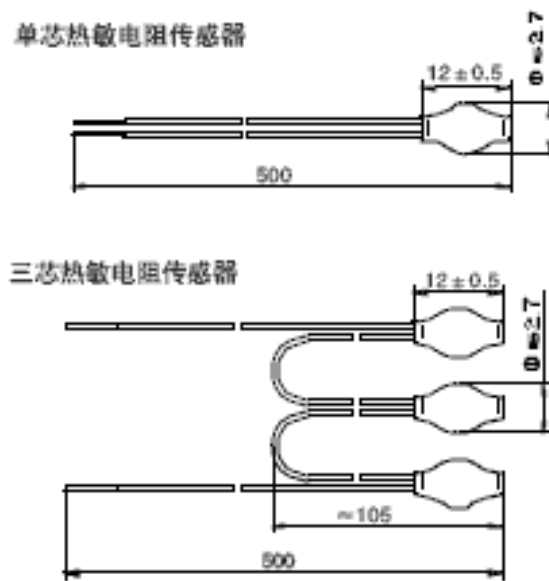
1、

### 6.1 Execution standard products

GB/T 7153-2002 《Directly heated positive step-function temperature coefficient thermistors-Part 1:Generic specification》

(Meet international standards DIN44081 / DIN44082)。

### 6.2 Dimensions, structure



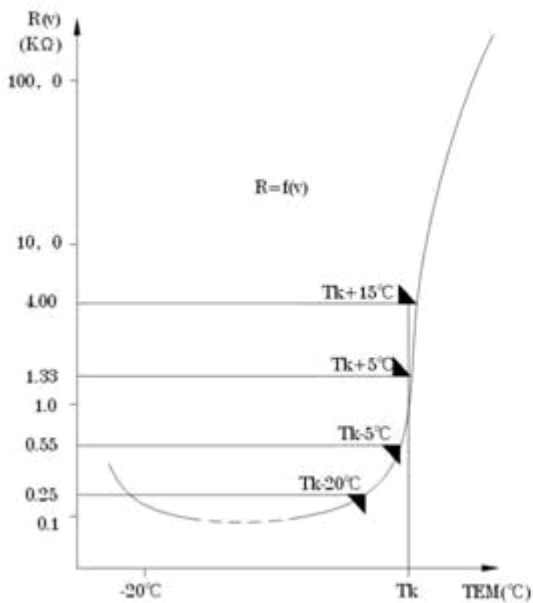
"L" by user determine length

### 6.3 Technical parameter

No.	Item	Technical requirements
1	Max.working voltage	30Vdc
2	Normal using voltage	≤2.5Vdc
3	Tk tolerance	±5
4	Resistance in normal temperature T=25°C±1°C (V≤2.5V)	≤300Ω
5	TK-5°C (V≤2.5V)	≤1650Ω
6	TK+5°C (V≤2.5V)	≥3990Ω
7	TK+15°C (V≤2.5V)	≥12KΩ

8	-20°C~TK-20°C (V≤2.5V)	≤750Ω
9	Test voltage (DC)	≤2.5 Vdc
10	TK reaction time	<5 S
11	Insulation strength (AC)	2.5KV/5S
12	Maximum Storage Temperature	125°C
13	Minimum Storage Temperature	-25°C

### 6.4 Thermistor resistance-temperature characteristic curve



单芯WMZ6型热敏电阻的阻温曲线

在-20°C至Tk-20°C时, R≤250Ω;

在Tk-5°C时, R≤550Ω; 在Tk+5°C时, R≥1330Ω

在Tk+15°C时, R≥4000Ω; 以上测量电压为U≤2.5V DC

### Color Coding(For different temperature ratings)

TK	30	40	50	60	70	80	90	100	105	110	115	120	125	130	135	140	145	150	155	160	165	170	180	
Color1	Brown	Brown	Brown	White	White	White	Green	Red	Blow	Brown	Blue	Gray	Red	Blue	Red	White	White	Black	Blue	Blue	Blue	White	White	
Color2	Black	RED	Gray	Gray	Brown	White	Green	Red	Gray	Brown	Green	Gray	Green	Blue	Black	Blue	Black	Black	Black	Black	Red	Brown	Green	Red

### 7:Packaging

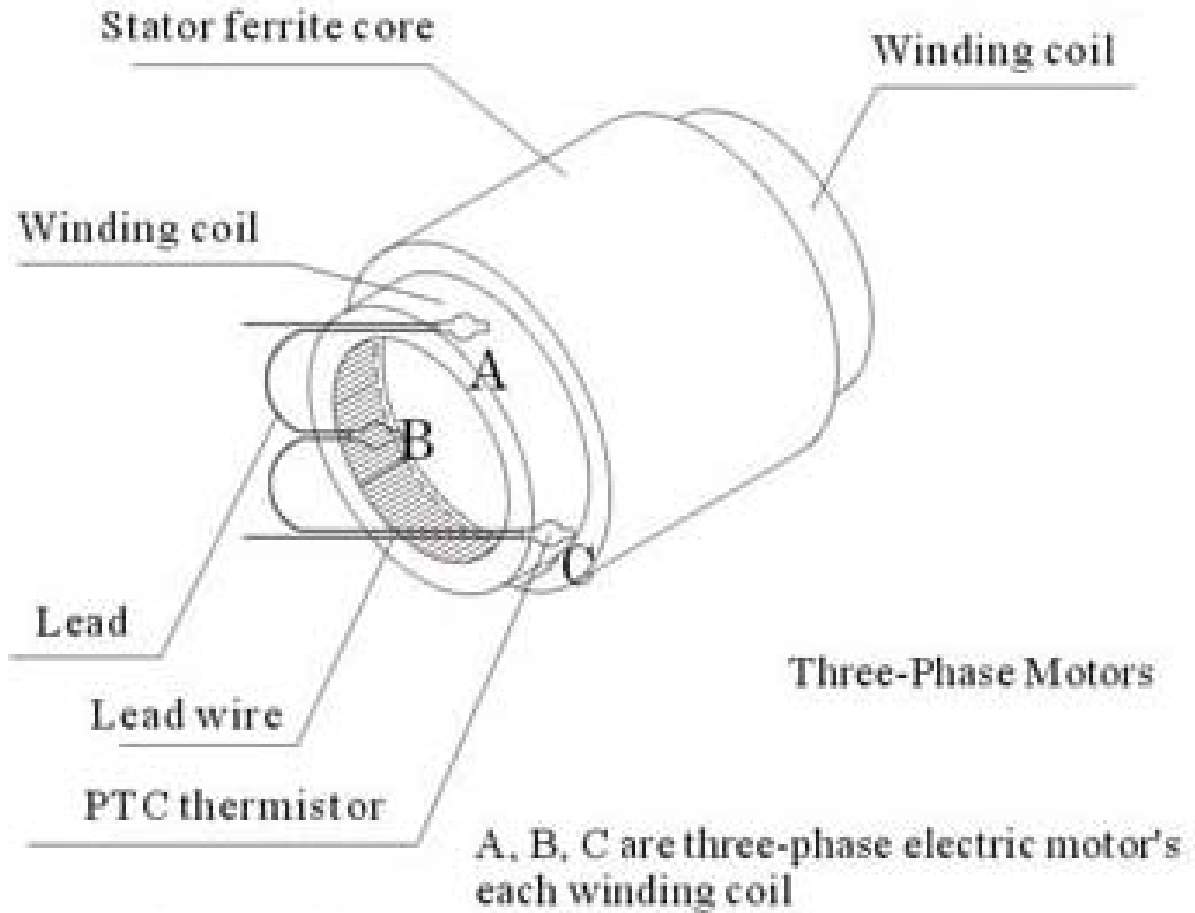
Put the products and quality certification in one plastic bag, and then seal it.;

The packing box containing the inspection reports, delivery receipts which includes the following items:

- a) The company trademark, name ;
- b) Production lot number ;
- c) Products code;
- e)Amount;
- f)The production date.

### 8: Installation

Installs the sensor part of PTC thermistor in the electric motor's coil (refer to picture)



\* Embed thermistor in the coil, see the picture above.  
Soak it together with the coil, then dry them completely.