## Specification

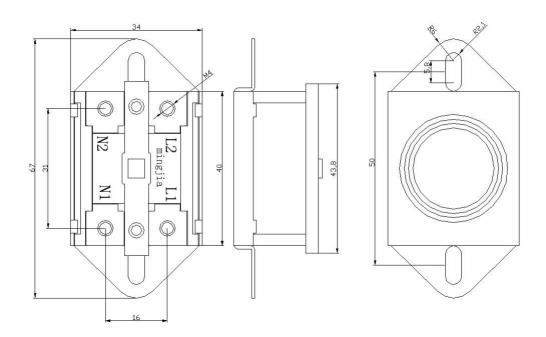
Name of Product: Temperature Controller

## Specification

1. Scope of Application:

This specification is applied to production and test of temperature controller.

- **2.**Extermal Dimension and Structure:
- 2.1See the following figures



- 2.2 Terminal Strength: Terminals can bear tensile force of 80N and thrust of 80N.
- 3. Electric Property: 250V voltage rating and 45A current rating.
- 4. Initial Property
- 4.1 Working Temperature: 70\80\90±3 ℃ manual reset

Detect up and down working temperatures at the rate of not greater than  $0.5\,^{\circ}$ C a minute in an air trough. The signal current is not greater than  $20\,\text{mA}$ .

- 4.2 Contact Resistance: The resistance between two terminals is not greater than  $50m\Omega$ .
- 4.3 Electric Resistance: The electric strength between terminals and outer shell can bear 1800V for one minute without without breakdown.
- 4.4 Insulation Resistance: The insulation resistance between terminals and outer shell is greater than  $100~\text{M}\Omega$
- 5. Environmental Adaptation:
- 5.1 Thermo-stability: The variation of temperature characteristic and initial value is not greater than  $5^{\circ}$ C, after laying in an air of  $130^{\circ}$ C for 24 hours.
- 5.2 Cold Endurance: The variation of temperature characteristic and initial value is not greater than  $5^{\circ}$ C, after laying in an air of -20°C for 24 hours.

- 5.3 Moisture-proof Insulation: The insulation resistance is greater than 10  $M\Omega$ , after laying at the temperature of  $40\pm3$  °C and moisture of  $90\pm2$ % for 24 hours and then in atmospheric temperature for 2 hours.
- 5.4Cold Endurance and Heat Endurance: The variation of temperature characteristic and initial value is not greater than 3°C, after 10 cycles of laying in an air -10±3°C for 15 minutes and then in an air of 125±3°C for 15 minutes.
- 5.5 Vibration strength: The variation of temperature characteristic and initial value is not greater than  $5^{\circ}$ C, after vibrating separately along the X,Y and Z directions at the amplitude of 1.5mm and the vibration frequency of 30Hz for 60 minutes.
- 5.6 Shock-proof: The vibration of temperature characteristic and initial value is not greater than  $3^{\circ}$ C, after dropping freely from the height of 1 meter in a package.
- 6. Marks, Package, Transportation and Storage
- 6.1 Each product must be marked with the following marks.
  - A. Name or trademark of the manufacturer;
  - B. Model of product;
  - C. Operating voltage and current.
- 6.2 Products shall be packaged in a dry packing box, with reliable moisture-proof and fixation, the gross weight of each box must not be more than 25Kg.
- 6.3 The outside of a packing box shall be marked with the following

marks.

- 6.3.1 Name of product, model mark and name of manufacturer.
- 6.3.3 Quantity, gross weight and external dimension of products.
- 6.3.3 "Handle with care", "keep dry", etc for caution.
- 6.3.4 Date of production and other necessary marks.
- 6.4 The package of products must be applied to various transport vehicles without any damage and protect products against direct rain and snow drops.
- 6.5 Products shall be stored in a warehouse with good ventilation, dry and non-corrosive gas.