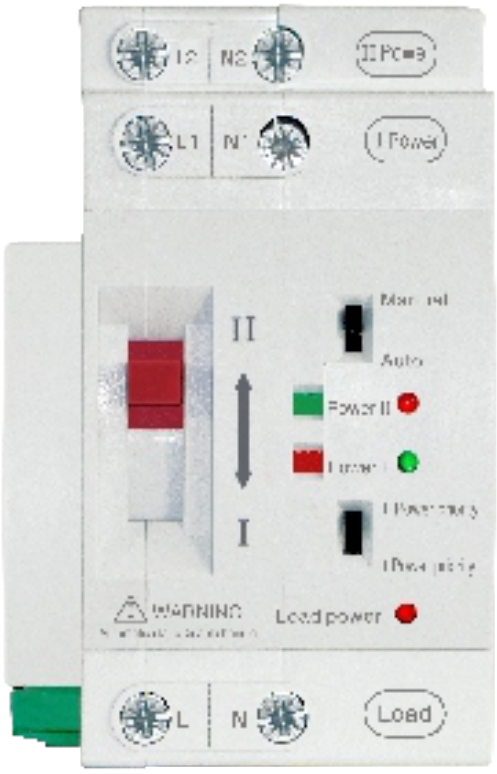
LVMA

When installing and using, pay attention to personal safety, and read the manual carefully!

Automatic Transfer Switch

User Manual



1. Product Overview

This series of household automatic transfer switch apparatus is the latest micro household power transfer switch developed and produced by our company. The switch belongs to PC CLASS infrequent transfer switch, Two positions structure, It is suitable for AC 50/60HZ and AC power distribution system of rated current 10A-63A. It is mainly used to detect whether the user's power supply is normal. When one power supply is abnormal, switch to the other power supply immediately. Mechanical and electrical combination locks are used inside the switch.Avoid simultaneous switching on of two lines.So as to ensure the continuity, reliability and safety of power supply.

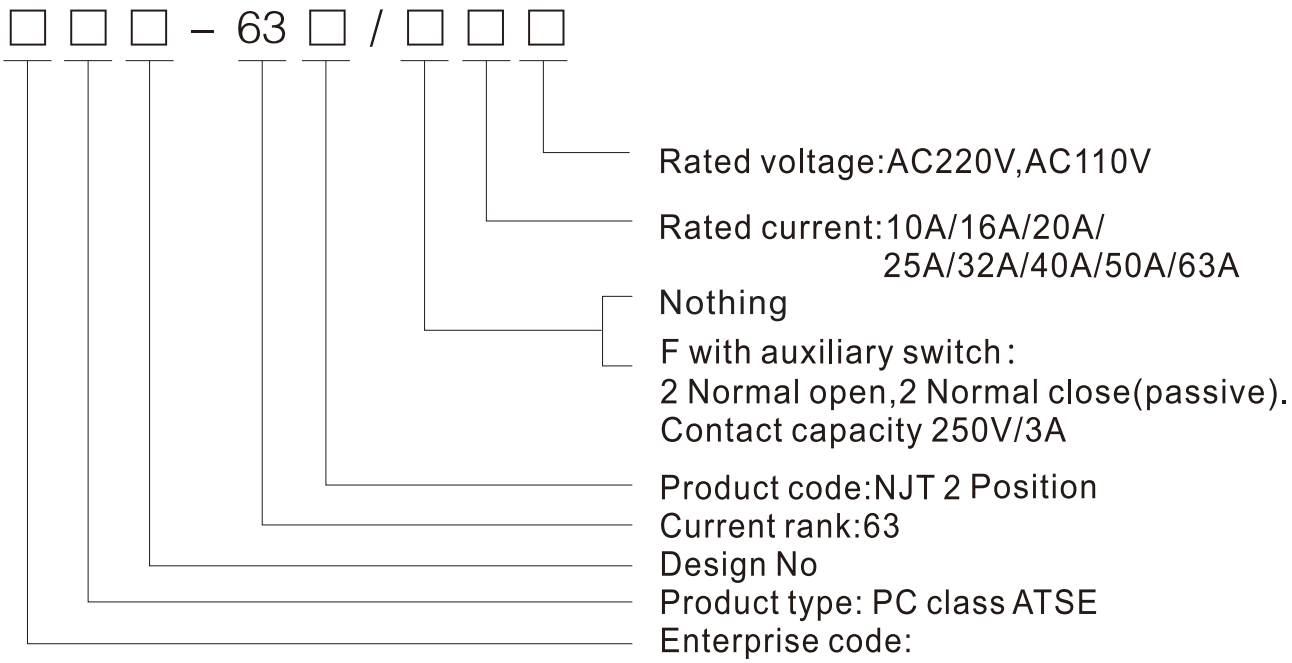
2. Performance And Features

- Use activated electromagnetic mode driven by electromagnet,Fast conversion speed, The default control voltage is AC220V (AC110V can also be customized).
- The switch is equipped with normal power supply/standby power supply/load power supply on the power indicator,In addition, passive auxiliary function is optional (used for closing indication of normal/standby power supply), the switch state is clarity.
- In automatic mode, it has the function of self-input and self-recovery. When the I power supply and the II power supply exist at the same time, the II power supply is preferred.
- Modular structure design, the same direction into the line, convenient customer wiring. weight ≤ 0.5kg, compact structure, small volume, very convenient installation and maintenance.
- The product is equipped with arc extinguishing system, after the current enters the arc extinguishing gate, it is divided into many series arcs, which are stretched, cooled and extinguished by electromagnetic force. The shell is made of fireproof material, which is far away from fire. The overall appearance of PCB is coated with three-proof paint to overcome the complex use environment.
- Built in power sampling line (users do not need to connect another control power line). The switch can realize automatic conversion function by connecting the main circuit.

3. Normal Working Conditions

- The operating environment temperature ranges from -5°C to +40°C, and the average temperature within 24 hours cannot exceed +35°C. The storage environment temperature ranges from -25°C to +55°C, and can reach +70°C within 24 hours.
- The altitude of the installation site does not exceed 2000m.
- The relative humidity of the air at the installation site does not exceed 50% when the ambient air temperature is +40°C. The relative humidity can be higher at a lower temperature. For example, when the mean minimum temperature of the wettest month is +20°C, the mean monthly maximum relative humidity of that month can reach 90%. Appropriate measures should be taken to prevent condensation due to temperature changes.
- Pollution Level 3 (conductive pollution, or dry non-conductive pollution becomes conductive due to condensation). The ATS can be installed vertically or horizontally in the cabinet. If you have special installation requirements, please contact our company.
- The protection level of the product shell is IP30.
- Overvoltage class: III main circuit; Control and auxiliary circuits Class II.

4. Model Number And Its Meaning

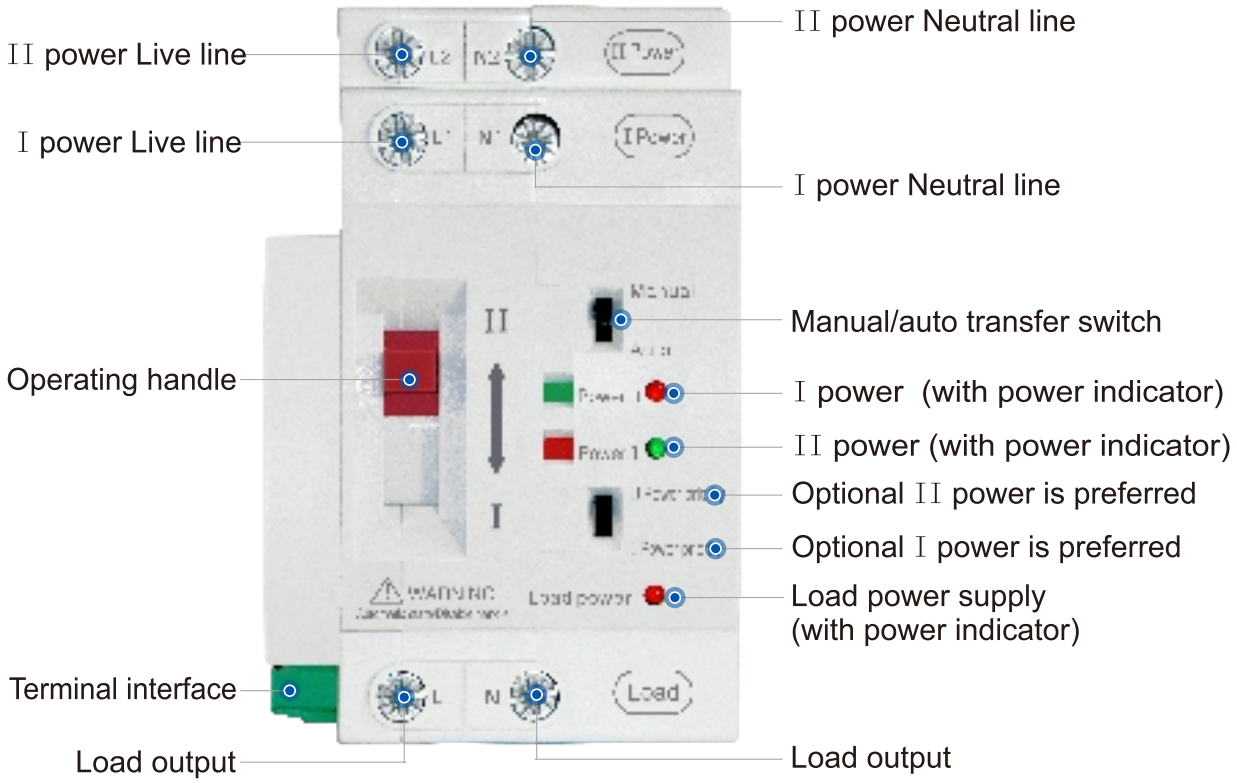


5.Main Technical Parameters

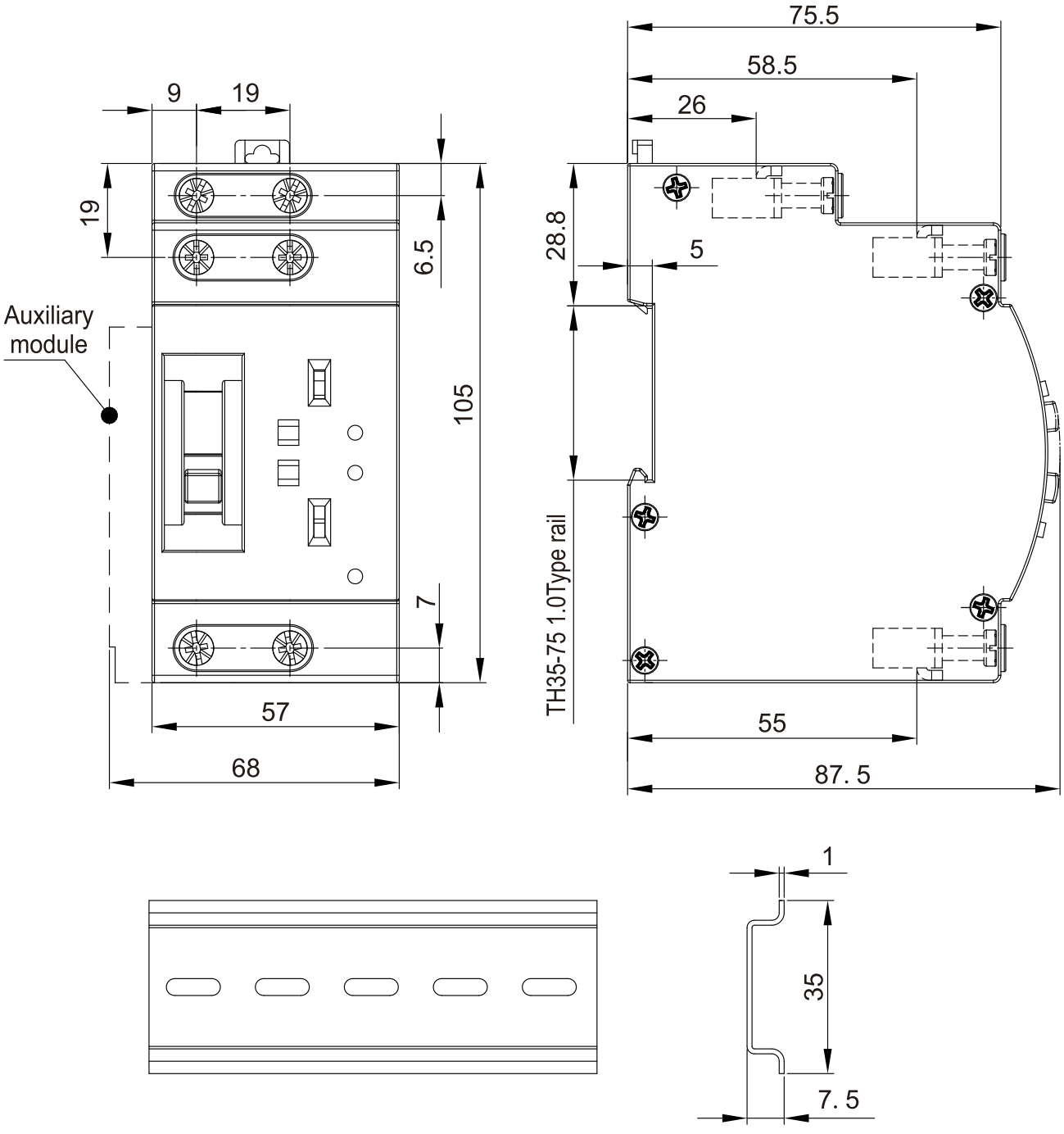
Current rank	63							
Rated work current Ie(A)	10A	16A	20A	25A	32A	40A	50A	63A
Rated insulation voltage(Ui)	690V							
Rated impulse withstand voltage Uimp	8kV							
Rated work voltage Ue	AC220V[@]							
Rated frequency	50/60Hz							
Transition preparation time	⩽60ms							
Mechanical life	⩾6000 Times							
Electrical life	⩾1500 Times							
Using the categories	AC-31B							

Note[@]: If the rated working voltage is AC110V, the product shall be customized.

6.Description Of Structure And Wiring



7. Appearance And Installation Dimensions

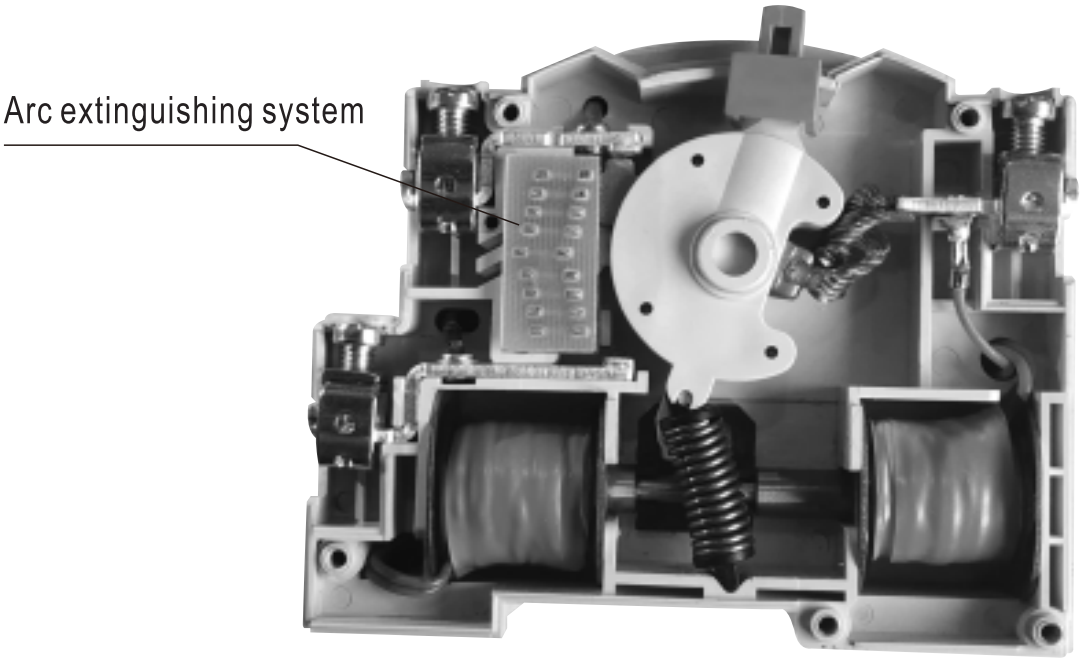


Note: Tunnel terminal;

Terminal connection area: suitable for（1~25)mm^2;

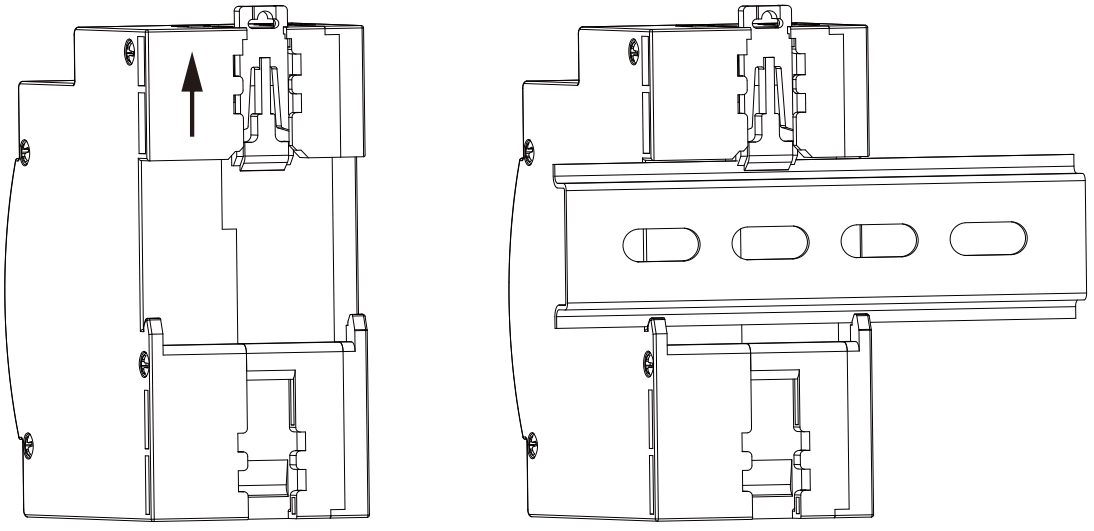
The wire connection screw is M5, and the torque is 3. 0 N.m。

8. Arc Suppression Device



9. Installation Mode

Din rail installation



10. Precautions Before Operation

- Before operation, please check whether the voltage input meets the requirements. When the rated working voltage is AC220V, turn onThe required voltage range for normal operation is AC187V~AC253V.
- This ATS has the function of undervoltage detection. When the phase of the I power supply is out of phase or the voltage is lower than 165V, the switch transfer to the II power supply (under the premise that the II power supply voltage is greater than 187V), the user is free to choose the I power priority or the II power priority.
- Please test whether the ATS can work normally in the manual state first, and then put the toggle switch in the automatic position for testing, and then put it into use after passing the test.
- If you need to operate the switch manually, you must first toggle the mode switch to "Manual" mode.

11. Inspection And Storage

☐ Before maintenance and inspection, all external power supplies must be cut off and carried out by professional personnel.
☐ To ensure good performance of the ATS, maintain and check the ATS for the first time within six months after the installation and at least once a year. If the installation conditions are harsh, increase the maintenance and check frequency.

12.Maintenance And Inspection Items

☐ To prevent dust and dirt from causing faults, remove them in a timely manner.
☐ Check whether the electrical contact is deformed or damaged. Remove metal particles and burning marks on and around the contact surface.
☐ Rust, acidification, and dust on the contact surface may cause poor contact. Manually operate the ATS several times and measure the contact resistance when necessary.
☐ If the ATS is mildly damp or idle for a long time, dry it before powering on. After removing dust and dirt, use a 500V megohm meter to measure the insulation resistance between the I power supply, II power supply, load end and electrode, including all live parts and the installation guide rail. The insulation resistance should not be less than 10MΩ.

Use of environmentally friendly printing paper

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Suggest sending the manual to the final user!