Automatic transfer switch

PEATS-63R automatic transfer switch is a PC class infrequent change-over
switch, with two-station design (commonly used for A and standby for B) suitable for AC systems with AC 50-60hz and rated current 6A-63A. The main function of the automatic transfer switch is when the main power (common power supply A) fails, the ATS will automatically switch to the backup power (Backup power supply B) to continue working (switching speed <50 milliseconds), which can effectively solve the troubles caused by power outages.

Product model and meaning

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Company code	Product Category	Installation method	Case grade	Pole	
PROJOY	PC class automatic transfer switch (two stations)	Din-rail installation	63	2P/4P	Rated working voltage AC230V，AC110V Rated working current 6A/10A/16A/20A 25A/32A/40A 50A/63A

Working Conditions

The operating environment temperature range is -5 °C~+40 °C, and the average temperature value within 24 hours does not exceed+35 °C. The storage environment temperature range is -25 °C~+55 °C, and can reach+70 °C in a short period of time (within 24 hours).
The altitude of the installation site shall not exceed 2000.
The relative temperature of the air at the installation site should not exceed 50% when the surrounding air temperature is+40 °C, and there can be higher relative humidity at lower temperatures. For example, when the average lowest temperature in the wettest month is+20 °C, the average highest relative humidity in that month can reach 90%. Appropriate measures should be taken to prevent condensation caused by temperature changes.
Pollution level 3 (with conductive pollution, or dry non-conductive pollution turned into conductive due to condensation). ATS can be installed vertically or horizontally inside the cabinet. If there are special installation requirements, please contact our company. The protection level of the product shell is IP30.
Overvoltage category: Main circuit class III; Control and auxiliary circuits Class II.

note

Manual/automatic operation can ensure the on/off performance of electrical operation, but in manual operation, it cannot be guaranteed due to the different on/off speeds of the operator. Excessive loss of silver alloy may occur during manual operation. Therefore, the selector switch can only be pulled to the manual position after cutting off all power sources to check and maintain the operating system and contact information. Usually, please pull the selector switch to the electric position. When manual operation is required, pull the selector switch to the manual position. After completing the manual operation, pull the selector switch from the manual position to the automatic position.
The control circuit TSE is immediately excited. After the conversion is completed, the internal switch will damage the coils in the control circuit, which can operate normally at 85% -110% of the rated working voltage. Low input voltage may cause the coil to heat up and burn out.

install

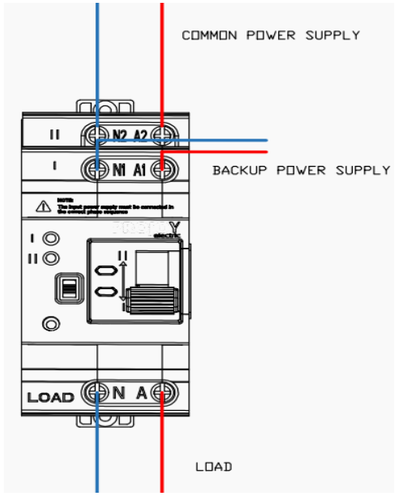
Before installation and wiring, please ensure that professionals have read this manual.
Before installation, please check the integrity of ATS. Then turn on the ATS with an operating handle, check the flexibility of the operating mechanism, and check the on and off status of each phase as well as the load of the normal and backup power sources.
Please equip ATS with suitable circuit breakers according to the installation requirements of the power distribution system to ensure the safety of personnel and equipment.

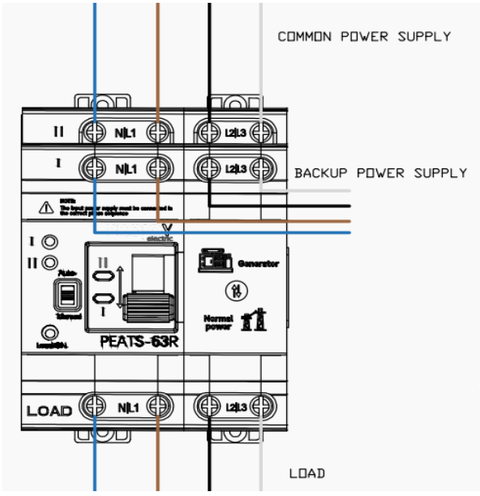
maintenance

Maintenance and inspection should be carried out by professionals. Before cutting off all power sources. To ensure the good performance of ATS, the first maintenance and inspection should be carried out within 6 months after use. Then maintain and inspect at least once a year. Under harsh installation conditions, the frequency of maintenance and inspection should be increased.
If maintenance and inspection projects fail, please remove dust. b: Please check if the electrical contact components are deformed or damaged, and clean the surface. c: And the surrounding metal particles and scorch. Rust, acidification, and dust on the contact surface may cause poor contact, so please perform some manual operations and measure the necessary contact resistance.
d: If the ATS is damp or has been idle for a long time, please dry it before turning on the power. After removing dust, use a 500V megohmmeter to measure the insulation resistance of the normal power supply and AC power supply. When using live parts and metal plates, the insulation resistance of the load side and two poles, including insulation resistance, should not be less than 10MQ.
Amphetamine type stimulants should be stored in the same environment as normal working conditions, and dust, moisture, and collision prevention measures should be taken.

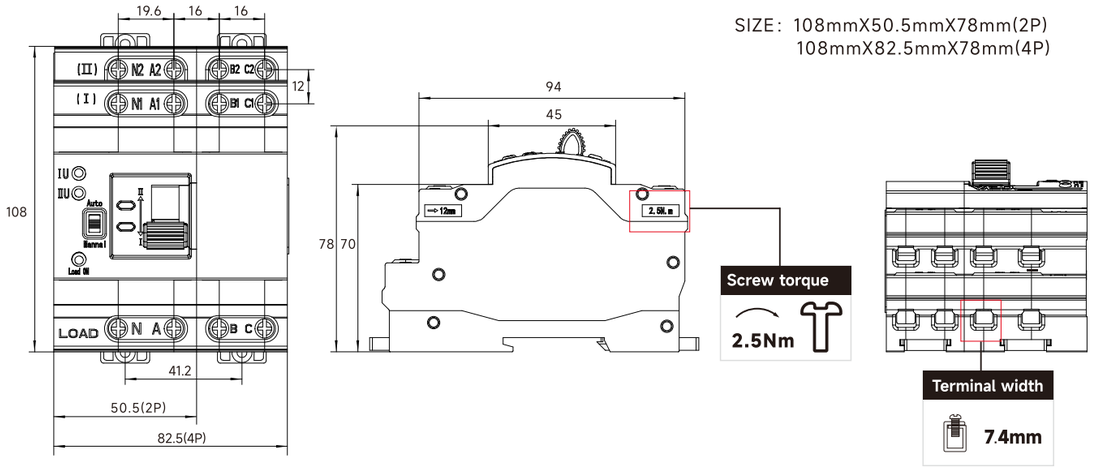
Technical Specification

	63								
Rated operating current Ie(A)	06A	10A	16A	20A	25A	32A	40A	50A	63A
Rated insulation voltage Ul	690V								
Rated impulse withstand voltage Uimp	8kV								
Rated working voltage Ue	AC110V/230V								
Rated frequency	50/60Hz								
Class	PC class: can be switched on and loaded without generating short-circuit current								
Pole number	2P					4P			
Rated short-circuit current Iq	50kA								
Short circuit protection device (fuse)	RT16-00-63A								
Control circuit	Rated control voltageUs:AC230V/110V,50/60Hz Normal working conditions:85%Us-110%Us								
Auxiliary circuit	AC110V/230V 50/60Hz Ie=5A								
Mechanical life	≥8000 times								
Electrical life	≥1500 times								
Usage category	AC-31B								



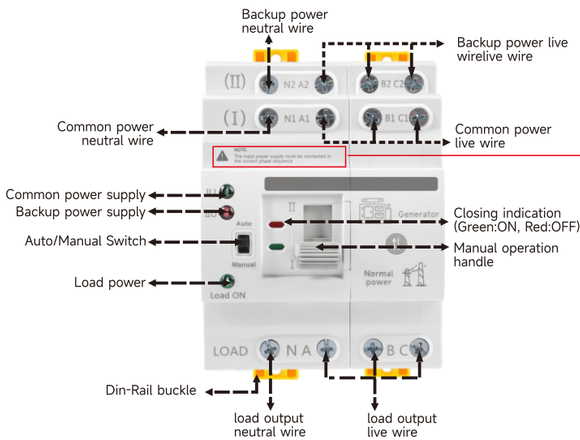


size



SIZE: 108mmX50.5mmX78mm(2P)
108mmX82.5mmX78mm(4P)

Wiring Instructions



NOTE:
The input power supply must be connected in the correct phase sequence

Common power supply

When the power supply is abnormal (under voltage or over voltage state)
Flashing indicator light

Backup power supply

When the power supply is abnormal (under voltage or over voltage state)
Flashing indicator light

Schematic diagram

The schematic diagram of the dual power control circuit
Obtained patent, counterfeiting will be prosecuted