Rated: voltage 220V 50/60HZ

Noted: power will be interrupted when Switching.

Switch time<4S

Max current: 63A.

1. Dual power Automatic transfer switch can switch to Normal power or reserve power aut omatically. Please noted that the switch can't turn on or turn off the generator. This switch Normal power first. If normal power on, the switch will switch to Normal power. If norma l power off, and reserve power on, the switch will switch to reserve power.

2.Wire

Press the button to Automatic, the switch will switch to Normal power or reserve power au tomatically.

Press the button to Manual, Then you have to switch the Direction manually.

1.Application
TOQ3D is terminal type automatic transfer device. It's suitable for 3 phases 4 wires (or 1 phase 1 wire) dual power grid with AC 50/60Hz, rated voltage 400V/230V and rated current up to 63A . When one power goes wrong (only test normal Phase A voltage and reserve Phase A voltage, o nly test loss voltage or loss phase),it will automatic connect one or several load circuits from one power to the other power automatically, to ensure normal power supply of load circuits.

The automatic transfer switch conforms to IEC60947-6-1 and GB/T14048.11

2.Normal conditions for operation and installation:

Environmental Temperature Condition:-5~+40°C

Installation site is not more than 2000 meters above sea level.

Pollution Level: Grade 3

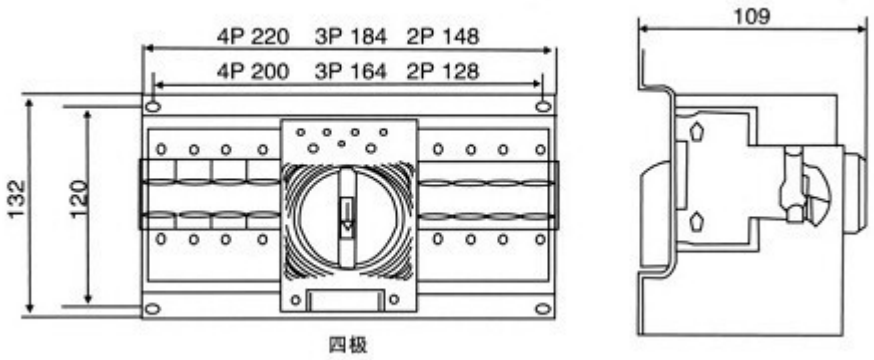
Installation Category: 3

Vertical installation or horizontal installation

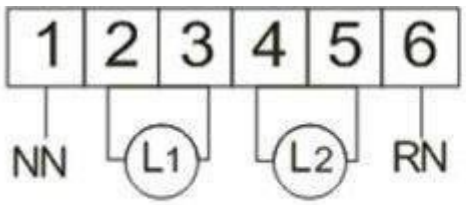
4. Main parameter

Rated Current Ie A	6,10,16,20,25,32,40	50, 63
Electrical Appliances Class	CB	
Use Category	AC~33B	

Tripping Current	5~10In (Type C), 10~15In (Type D),	
Rated voltage Ue	220V (2P),380V (3P or 4P)	
Rated frequency	50/60Hz	
Rated short circuit connecting ability Icm (Peak)	9.18KA	6.615KA
Rated short circuit breaking ability Icn (effective value)	6KA	4.5KA

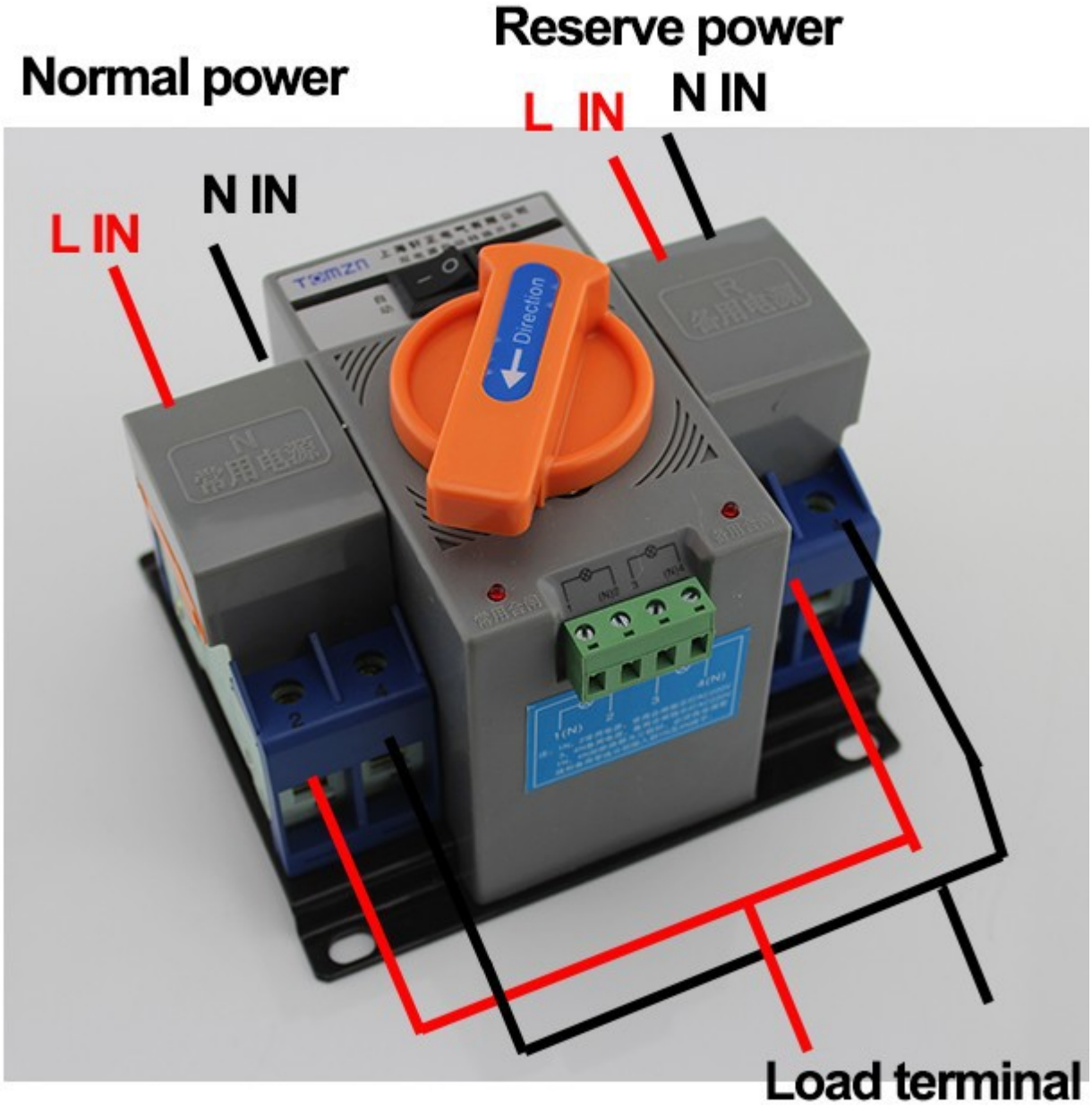


6. Terminal wiring diagram



NN Normal null line (3P)
RN Reserve null line (3P)
L1 Normal off instructions (active220V)
L2 Reserve off instructions (active220V)

7. Installation and wiring



ATSE can be installed in power control cabinet directly. Users can wire after ATSE installation (refer to design and use). As per current value use suitable conductor to connect the mains side (t op terminal) and load side (bottom terminal) of MCB of normal electric power and standby elect ric power. In-
phase parallel connection at load side, and ensure the phase sequence of normal electric power a nd standby electric power must be accordant (Wire as per A,B,C,N sequence). For 3 poles ATS E should add one conductor with section not less than 0.3mm2 to connect theneuter line of pow er supply correctly, thus ATSE can work properly. For 4 poles or 2 poles ATSE, N pole of norm al electric power and standby electric power should be connected to N pole of MCB respectively . In addition, when install ATSE please ground reliably at grounding mark.

8. Use

1) Normal use, please set the switch of controller at Automatic Function. Under Auto working th e controller of ATSE monitor normal electric power and standby electric power and display runn ing status of ATSE. When Normal power cut, novoltage, failure, ATSE will transfer load autom atically from normal power to standby power. If normal power get right, ATSE will transfer loa d automatically from standby power to normal power. The luminous diode on switch panel indic ate switch off situation.

2) If you don't adopt automatic transfer or need other manual operation please set the controlle r at manual. Under manual operation the controller stop work, and manual operation can make t he breaker on off, and the switch doesn't transfer automatically.

3) When ATSE is short circuit or over load, The MCB of ATSE will protect tripping. If power display normally the handle of MCB is switching on. If the MCB has protected tripping users sh ould set at manual and operate the switch to dual separating brake by hand, and check the reaso n of trip. After trouble clearing please set the controller at auto again to operate.

4) When ATSE transfer to auto from manual, if normal and standby power are normal ATSE w ill prior connect normal power to load (even if load connected standby power ago)

9. Matters need attention

When users test or operate please follow relative rules and pay attention to the following matter s to ensure use our ATES correctly.

1)Neutral conductor N can't be connected in wrong way, must connect reliably, otherwise ATS E can't operate properly, even burn controller and motor.

2)The protective grounding of ATSE must be connected reliably to ensure safety.

3)Detection sampling signal for controller work power and main power supply is taken from Po wer supply side of main circuit, and work power of auxiliary connection terminal used for conne ct indicator is taken from main circuit, so can't have voltage test between spare terminals (unless dismantle the secondary wires). Can have power frequency voltage test between main circuit an d shell or between secondary auxiliary terminals and shell.

10. Simple troubleshooting

When users find fault can request professional to test and deal with. Keep Away for Safety whe n operate. Or contact our Specialized Service Departments.

1) Double Power are both switched on, but ATSE can't transfer automatically

1 Check Auto/manual should be in automatic position.

2 Check if incoming line is correct or not, if phase sequence is accordance or not, and wiring is s olid and reliable or not.

3 Check if the fuse is burned on not.

2) Double power are both switched on, ATSE standby power is switching on.

4 Check if normal power incoming line has voltage or not.

5 Check Commonly used insurance

6 Check if external light is connected in wrong way or not