

FTS

Dual Power Transfer Switch



Application

FTS Micro-Breaking Dual Power Transfer Switch (hereinafter referred to as transfer switch) is suitable for AC 50 / 60Hz dual power supply system with rated operating voltage of 400V and rated operating current from 16-630A. Optional transfer of dual power can be made according to requirement. The product owns short circuit, overload, under voltage and loss-of-voltage protection function, as well as fire protection, double-break and output ON signal function. It's especially suitable for lighting circuit of office building, mall, bank, bus station and high-rise building requiring fire protection. The product complies with GB/T14048.11 standard.

Working Conditions

- The ambient temperature shall not be higher than +40℃, or lower than -5℃, and the daily average shall not exceed +35℃.
- The altitude of installation site shall not exceed 2000m.
- Relative humidity shall not exceed 50% at the ambient temperature of +40℃, a higher humidity is allowable at a lower temperature, the average maximum relative humidity is 90% in the wettest month at a monthly average minimum temperature of +25℃, and special measures shall be taken for the condensation on surface of product due to temperature change.
- Pollution class: class III.
- In place of no intense vibration and impact, no harmful gas corrosive and disruptive to the insulation, no sever dust, no conducting microparticle and explosive substance, no high electromagnetic interference.

Product Features

- Reasonable structure, small volume, nice appearance, provided with protective shield, safer and more reliable power supply.
- Complete protective functions, including short circuit, overload, open phase and loss-of-voltage protection.
- Reliable remote double-break with EPS fire protection power supply interface DC12-24V.
- Noiseless, energy saving, simple installation, easy operation, reliable and stable performance.

Product Performance

- The transfer switch is composed of two FER-63 Micro - Breaking and motor and mechanical rotating device, and make detection to dual power through controller, when abnormality occurs to the circuit, the controller will make a logic judgment for the detection result and drive the operating mechanism to switch on or off according to command of controller, ensuring safe and reliable power supply to the load.
- Rated short circuit breaking capacity: 3kA
- Rated short circuit making capacity: 3kA
- transfer time: ≤3S
- Control voltage of transfer switch: AC230V
- Mechanical life of transfer switch (transfer of normal and reserve power): 3000 times, electric life: 1500 times.
- Rated insulation voltage: U=500V
- Rated working current: 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A.
- The transfer switch has auto throw-in self-restoring function with the normal supply operating preferentially in common condition. the user shall negotiate with the manufacturer during order placing for any other special requirement such as transfer switch of auto throw-in nonself-restoring mode.

Specifications

Making and Breaking Capacity						
Utilization Category	Making and Breaking Test Condition					
	I/Ie	U/Ue	Cos Φ	Electrical time(s)	Duration of cycle(min)	Number of operating cycles
Ac-B33	6.0	1.05	0.5	0.05	≤5	12

Note: AC-33B motor load or combined load including motor and resistance load under infrequent operation condition

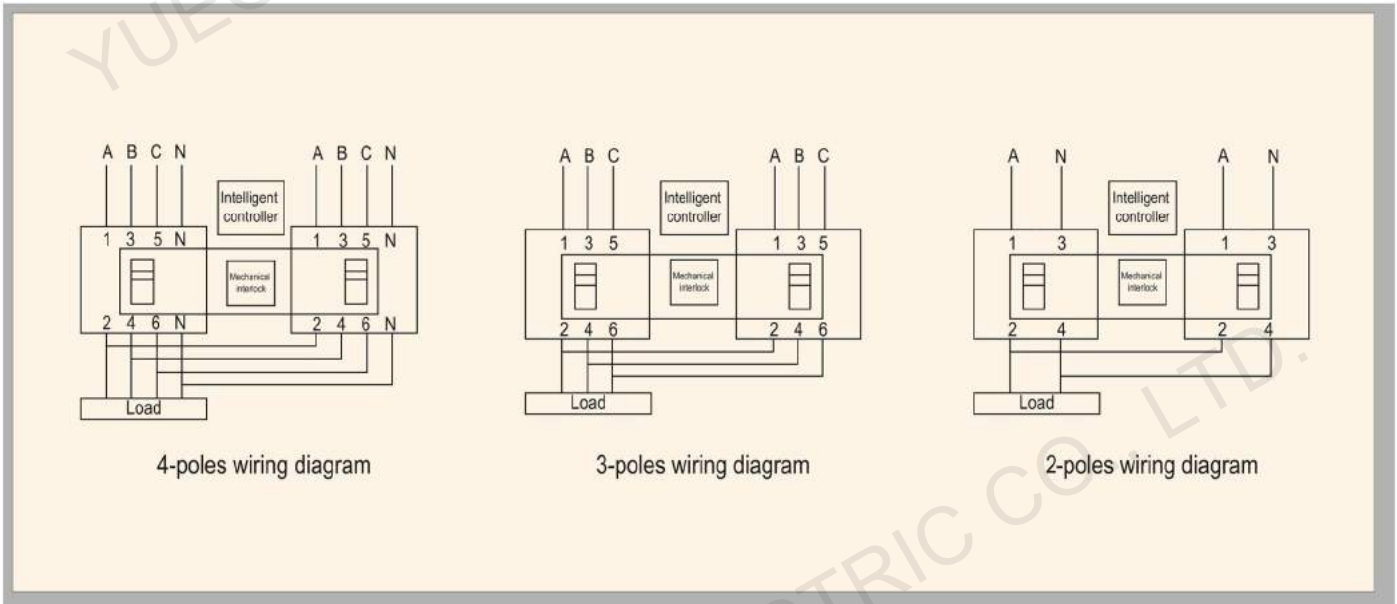
DUAL POWER TRANSFER SWITCH

Installation

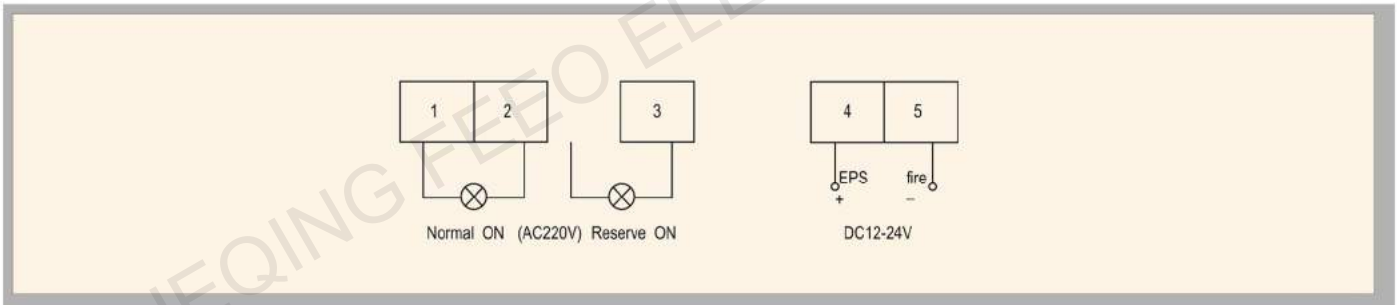
The inlet and outlet line & neutral line of normal and ready power shall be properly wired according to actual requirement of circuit design. The outlet terminals of the two circuit breakers shall be connected in parallel with accordant phase order (refer to the wiring diagram).

As for 3P circuit breaker, the neutral line must be connected to the terminal of neutral line (the normal and reserve neutral line as shown in the fig. 2 shall be respectively connected to NO. 1 and 2 connection terminal).

1. Main circuit wiring diagram



2. External power ON indication and fire protection power wiring diagram

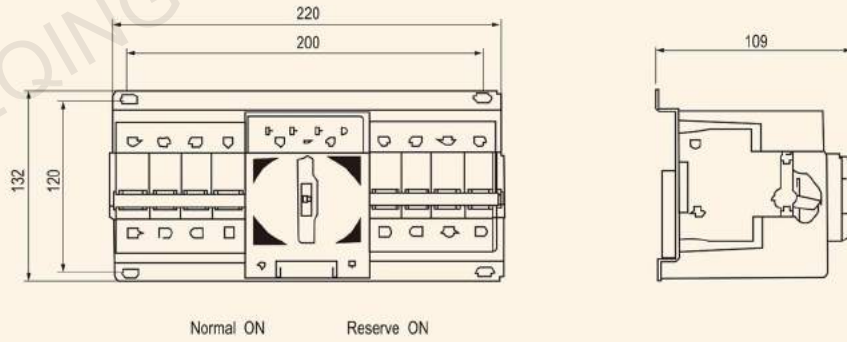


3. When manual operation is required for the transfer switch, as for FTS1-63 type, button switch shall be put to manual position first, then transfer or normal or reserve power can be made by turning the handle, as for FTS2-63 type, transfer or normal or reserve power can be made only by pushing manual/auto button until the manual indicator is on, when the control mode is in automatic position, the transfer will enter automatic work condition and the normal power will operate preferentially.

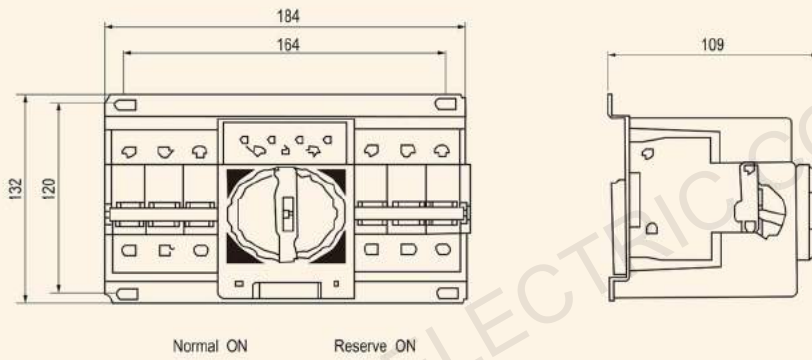
4. When the transfer switch is wired according to wiring diagram, after power on, if the normal and reserve power are in good condition, the indicator (red) of normal or reserve power will be on and the transfer switch will work normally.

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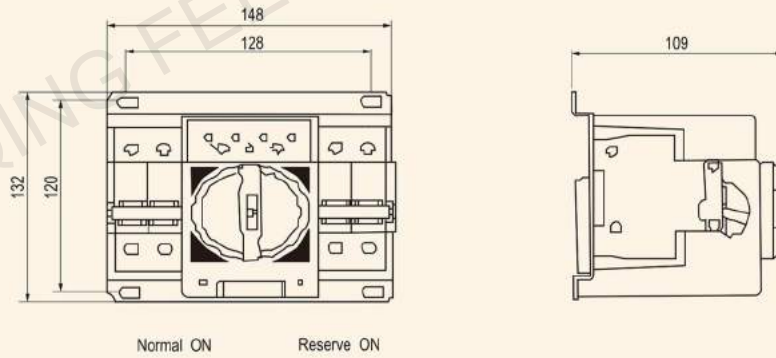
Dimension



4-poles overall dimensions



3-poles overall dimensions



2-poles overall dimensions