

## Distribution Apparatus

### YCQ6B Automatic Transfer Switch



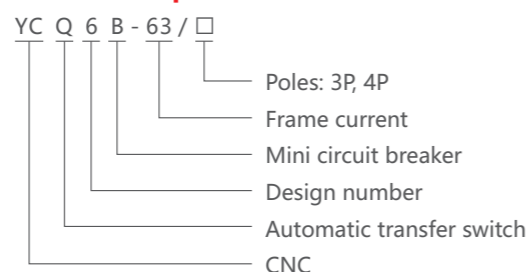
#### Product Overview

YCQ6B series automatic transfer switch is applicable to 3 phases 4 wires dual power grid with AC 50Hz, rated voltage 400V and rated current up to 63A.

When a power goes wrong, it will automatic connect one or several load circuits from this power to the other power automatically, to ensure normal power supply of load circuits. And it keeps the original mini circuit breakers' overload and short circuit protection functions.

The product is suitable for industrial, commercial, high-rise and civil residential areas.

#### Model & Explanation



#### Operating Conditions

- Ambient air temperature  
Limit of temperature: -5°C~+40°C.  
The average no more than +35°C within 24 hours.
- Transportation and storage  
Limit of temperature: -25°C~+60°C,  
The temperature can be up to +70°C within 24 hours.
- Altitude ≤ 2000m
- Atmospheric condition  
When the temperature is +40°C, the air relative humidity should not exceed 50%, only under lower temperature can allow for higher relative humidity. If the temperature is 20°C, the air relative humidity could up to 90%, Special measures should be taken for occasional condensation due to humidity changes.
- Pollution level: Grade 3
- Electromagnetic compatibility: Environment B

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#### Specifications

Type	Data
Original	YCB6H-63
Rated operational current (Ie)	6, 10, 16, 20, 25, 32, 40, 50, 63
Rated operational voltage (Ue)	AC 400V
Rated frequency	50Hz
Rated insulation voltage (Ui)	500V
Rated impulse withstand voltage (Uimp)	4KV
Poles	3P, 4P
Rated short circuit making capacity (Icm)	9.18KA
Rated short circuit breaking capacity (Icn)	4.5KA
Mechanical life	10000
Electrical life	3000
Electrical Appliances Class	CB
Use Category	AC-33iB
Sampling mode	Three-phase sampling
Structure type	Integrated
Controller type	Type A & Type B

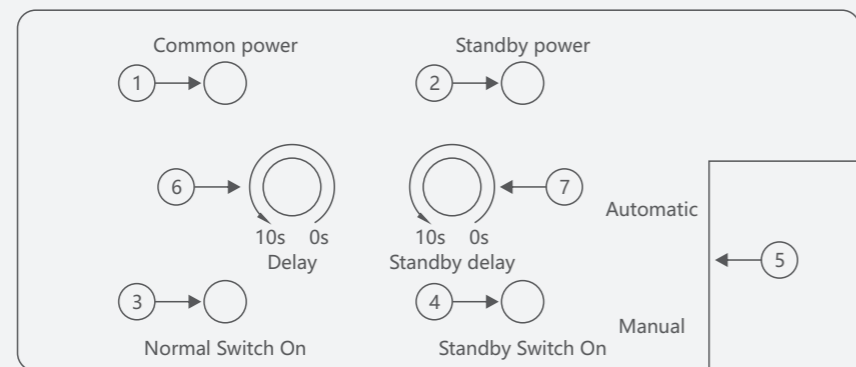
#### Controller features and functions

Features	Item No	Type A (standard type)	Type B (smart type)
Manual automatic conversion mode		■	■
Main contact working position			
Common power supply closed		■	■
Standby power supply closed		■	■
Double break		■	■
Automatic control			
Monitoring the common power supply		■ Phase/ failure, under-voltage and over-voltage fault	
Monitoring the standby power supply		■ Phase/ failure, under-voltage and over-voltage fault	
Self-recovery		■	■
Grid-grid		■	■
Phase-break and voltage-loss conversion		■	■
Undervoltage conversion		■	■
Delay adjustable		■	■
Transfer delay		0-30s adjustable	0-30s adjustable
Return delay		0-30s adjustable	0-30s adjustable
Generator control		-	Optional
Fire linkage		■	■
Fire feedback		■	■
Indication			
Closing, breaking, double break indication		-	■
Common, standby power indication		-	■
Parameter setting indication			

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① Common power indicator

This indicator is on when the common supply voltage is normal;

② Standby power indicator

This indicator lights up when the standby power supply voltage is normal;

③ Common power supply closure indicator

This indicator is on when the switch is in a common power position;

④ Standby power-off indicator

This indicator is on when the switch is in the standby power position;

⑤ Automatic / manual rotation mode selection switch

When the control switch is in the upper position, it is automatic switching mode, and at the bottom it is manual switching mode;

⑥ Conversion delay time setting potentiometer (commonly used power conversion and return delay time)

When the switch is in the closed position of the common power supply, if the common power supply fails and the standby power supply is normal, the controller starts timing (the timing time is set by the conversion delay potentiometer), and when the timing time is over, the controller controls the switch to switch to the standby power supply. If the delay time is set a little larger, the switching caused by the instantaneous voltage drop of the power grid can be avoided (for example, the temporary voltage reduction caused by the start-up of a large motor in a power grid). When the common power supply is normal, the controller starts timing (the timing time is set by the conversion delay potentiometer), and when the timing time is over, the controller controls the switch to switch to the common power supply (self-switching mode);

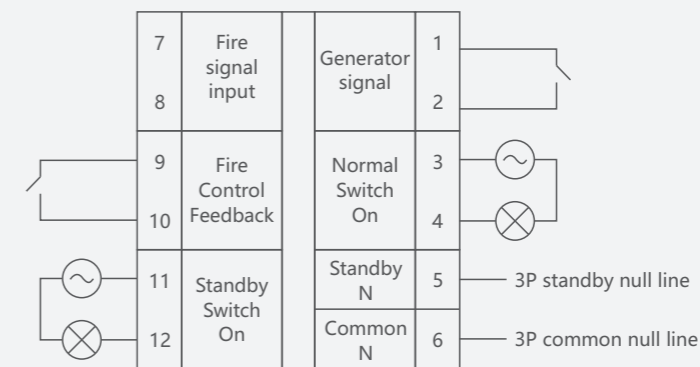
⑦ Conversion delay time setting potentiometer (standby power conversion and return delay time)

When the switch is in the closed position of the standby power supply (mutual standby mode), if the standby power supply fails and the commonly used power supply is normal, the controller starts timing (the timing time is set by the conversion delay potentiometer), and when the timing time is over, the controller controls the switch to switch to the common power supply.

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#### Schematic of the wiring of the controller



Remark: stand for external auxiliary power supply.

Type B controller wiring diagram

#### Overall and mounting dimensions(mm)

