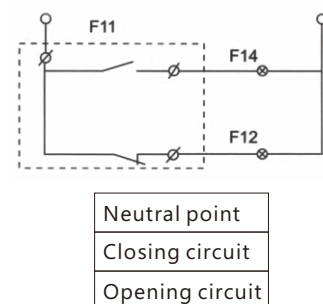


Auxiliary contact

▲ Auxiliary contact and its combination

The circuit breaker is in the "off" or "free trip" position	Double auxiliary contact	F14 ——— F11 F12 ——— F11 F24 ——— F21 F22 ——— F21
	Single auxiliary contact	F14 ——— F11 F12 ——— F11
The circuit breaker is in the "on" position	"closed" to "disconnected"	"disconnected" to "closed"

Auxiliary contact wiring diagram

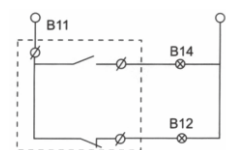


Alarm contact

▲ Alarm contact and its combination

Where the circuit breaker is in the "on" and "off" positions	B14 ——— B11 B12 ——— B11
The position of the circuit breaker at the time of "free trip" (alarm)	B14 ——— B11 B12 ——— B11

Auxiliary contact wiring diagram



When the circuit breaker is normally divided, the contact does not move. Only after the free trip (or fault trip), the contact side changes to the original state, that is, the normally open and close, the normally closed and the open, after the circuit breaker is buckled again, the touch Head restores original position.

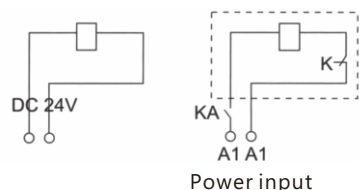
Shunt release

Generally installed in the phase A of the circuit breaker, when the rated control voltage is between 70% and 110%, the shunt release should reliably trip the circuit breaker under all operating conditions.

Control voltage: AC50Hz 230V、400V
DC24V、220V

PS:When the control loop power supply is DC24V, it is recommended to use the right diagram for the shunt control loop design.

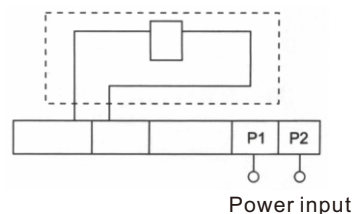
KA:IS DC24V intermediate relay, contact current capacity is 1A



Undervoltage release

In 35-70% of the rated current voltage, the under-voltage release shall operate reliably and disconnect the circuit breaker. When it is less than 35% of the rated voltage, the circuit breaker should be reliably prevented from closing. When the power supply voltage is equal to or higher than 85% of the rated voltage, make sure the circuit breaker is closed.

Rated voltage : AC 50Hz 230V 400V DC 110V 220V

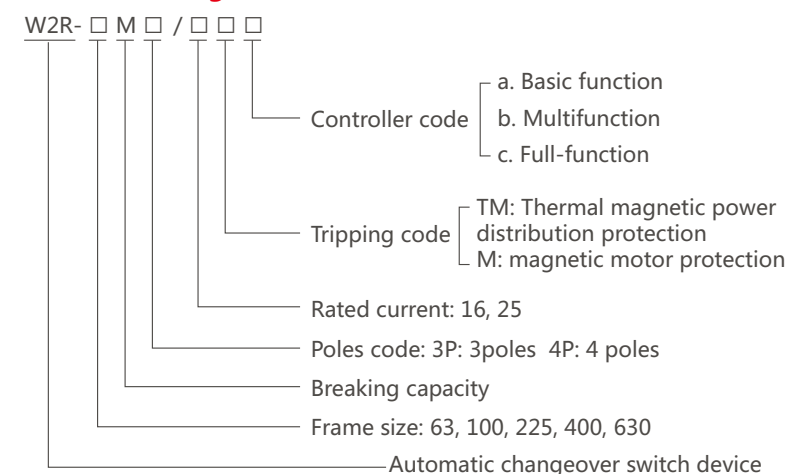


PS:The undervoltage release must be energized first, and the circuit breaker can be re-closed and closed. Otherwise, it will not operate and may damage the circuit breaker.

Automatic Changeover Switch Device



Model & Designation



Product Overview

1. Ensure un-interruptible service of critical electric power

When overvoltage, under-voltage or phase break occur to a power supply, it will automatically switch over to another power supply or start the electric generator. It is mainly used in hospital, shopping mall, bank, hotel, high buildings and fire control where long time power disconnection is not allowed and ceaseless power supply is needed.

2. Full automatic power supply changeover system

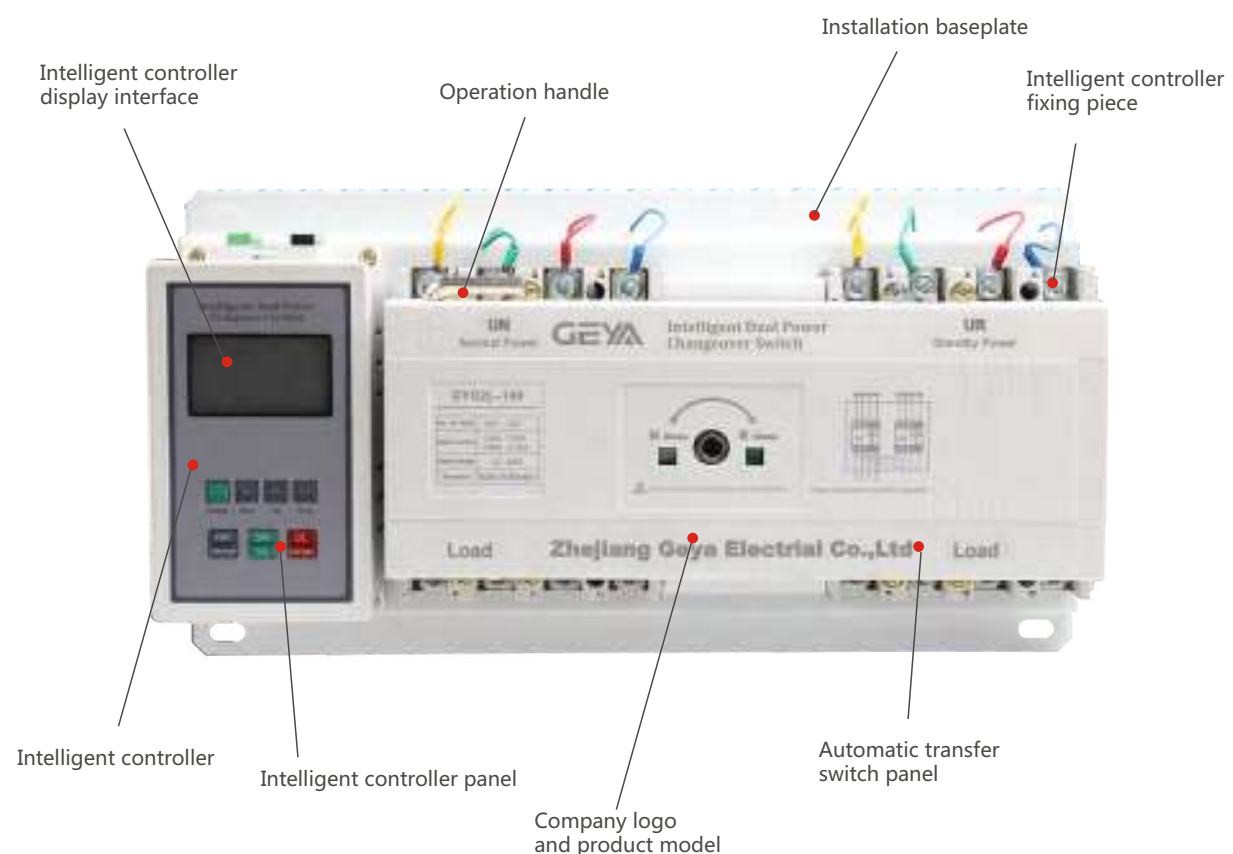
It is equipped with three changeover methods including automatic connection and automatic changeover, automatic connection and non-automatic changeover, reserve for each other., and two service modes including power grid-power grid, power grid-electricity generator, in order to satisfy different power changeover requirement.

3. Intelligent

It has communication interface with built-in RS485, and has two kinds of communication agreement including MODBUS-RUS and electric meter 1997, which can realize real time data upload, distance data configuration and condition monitor, and can achieve the function of telecommand, telemetry, remote control, and remote regulating. Remote vision can be achieved through matching intelligent power distribution system.

4. Safe and reliable, and have fire control linkage function

When fire disaster occurs to no fire control load, fire protection control center can send signal to intelligent controller, cut off double power supply, ensure fire disaster load to break.



Main Technical Parameter

Frame	63	100	225	400	630
Rated working current(A)	16, 25, 32 40, 50, 63	16, 25, 32, 40 50, 63, 80, 100	100, 125, 140 160, 180, 200 225	225, 250, 315 350, 400	400, 500, 630
Rated impulse withstand voltage	8kV				
Rated working voltage(V)	400				
Rated short-circuit making capacity (kA)	52.5	63	73.5	105	105
Rated short-circuit breaking capacity (kA)	25	30	35	50	50
Using category	AC33iB				
Electric level	CB level				
Certification	CCC				

Function Introduction

Function	Basic type	Multifunction type	Full-function type
Manual mode	■	■	■
Automatic mode	■	■	■
Motor protection function	■	■	■
Main contact working position (performing circuit breaker)			
Frequently-used power supply closed	■	■	■
Reserve power supply closed	■	■	■
Double portion	■	■	■
Automatic control			
Frequently-used power supply indication	■	■	■
Reserve monitoring power supply	■	■	■
Automatic connection and automatic changeover	■	■	■
Automatic connection and non-automatic changeover	no	■	■
Reserve for each other	■	■	■
Power grid-power grid	■	■	■
Power grid-generate electricity	no	■	■
Phase break instantaneous protection	■	■	■
Under-voltage protection 150-210V	adjustable	adjustable	adjustable
Over-voltage protection 230-280V	■	■	■
Voltage loss protection 30% Ue	■	■	■
Fire control function	no	■	■
Changeover time delay 0-100s continuous adjustable	■	■	■
Returning time delay 0-100s continuous adjustable	■	■	■
Frequency protection	no	no	■
Communication function	no	no	■
Indication			
Closed/open/double portion indication	■	■	■
Frequent-use power supply indication	■	■	■
Reserve power supply indication	■	■	■
Fault tripping indication	■	■	■
Parameter setting indication	■	■	■
Voltage real time indication	■	■	■
Normal three phase voltage protection	three phase	three phase	three phase
Reserve three phase voltage protection	three phase	three phase	three phase