

Modular DIN Rail

YCB9ZF-100AP,100W Smart Circuit Breaker

A



Seiko design, Cloud control, GPRS connection, small volume, High breaking ability, flameresistant material, Energy conservation and environment protection,International standard, All-round service.

- Data monitoring
- Fault alarm, protection
- Centralized management
- Analysis of energy consumption
- Portable barrier remover
- Handle dangerous situations anytime and anywhere
- Remote control
- Rights management
- The regional search
- Data report
- Remote location + diagnosis

35 Powerful Features

Comprehensively protect the safety of human electricity

- Local + remote integrated control Local + remote leakage self-check
- Operation record can be checked • Electrical fire factor monitoring
- Fault early warning • Fault location/fault alarm • Tripping protection
- Over undervoltage protection • Overload protection
- Over temperature protection • Open phase protection
- Voltage/current imbalance • Fault phase protection
- Preventing electricity-stolen • Maintenance and overhauls closed by mistake
- Current limit • Scene mode • Line timing • Rights management
- Automatic reclosing • Generate report analysis automatically
- Local + remote locking • The leakage protection current can be adjusted
- Custom warning thresholds • Short circuit protection • Power contrast
- Troubleshooting advice • Fault cause recording • Conditional linkage control
- Centralized management • Power factor calculation • Historical data import
- Electricity statistics • Chart simulation display • Status indication



=



Multi-function instrument



Contactor



Leakage protection circuit breaker



Electrical fire monitoring detector



Electric meter



The circuit breaker



Intelligent lighting module



Over undervoltage protector



Temperature sensor



Residual current transformer



Current transformer

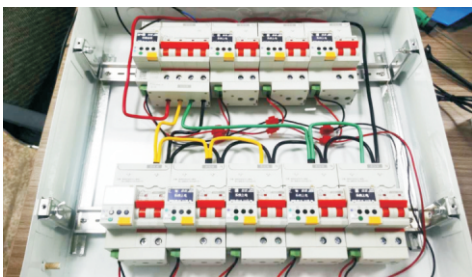


Time switch

Modular DIN Rail

YCB9ZF-100AP,100W Smart Circuit Breaker

A



Product Description

The Changeover Switch can switch on,Load and break the circuit under normal conditions,using as Switch Disconnectors.

Standard: IEC 60947-5-1



Basic functions and features

- OLED lattice LIQUID crystal display has long life and good low temperature characteristics;
- Can be set as a communication gateway, through the ontology 485 interface for the branch small current switch combination networking;
- It integrates multiple protection functions such as over voltage, under voltage, missing phase, wrong phase, loss of voltage, overload, short circuit, leakage, temperature, voltage/current imbalance, over power, under power, anti-power theft and so on into one, and supports early warning in accordance with the preset proportion;
- Multiple functions can be closed, alarm, trip any combination, more widely applicable;
- Support 12 months frozen electric energy and 7 days frozen electric energy query, let the remote energy management more convenient;
- Electric parameters such as active power, reactive power, apparent power and power factor are supported for collection and uploading;
- Support positive and negative energy statistics.
- RS485 in non-gateway mode supports DL/T-645/Modbus protocol and automatic conversion;
- Support external dry contact control, cabinet door control;
- Support multiple groups of any time timer control closing, opening operation, so that the control more arbitrary;
- Multi-component modular design, optional collocation, more flexible use
- Remote wireless communication technology, supporting 2G, 4G, Ethernet, wifi, Bluetooth, MQTT and other communication modes;
- Operation event alarm event failure event real-time reporting, so that you can know your equipment running state anytime and anywhere; The alarm can be accompanied by a buzzer prompt, and can be muted remotely or locally, making the device alarm more intelligent;
- Support a variety of remote OTA upgrade mode, so that equipment upgrade maintenance no longer trouble;
- Hundreds of local event records (power on, power off) are stored, which can be checked at any time for accident cause analysis;
- The clock is timed and synchronized on the cloud to ensure the accuracy of event recording time. The daily error is no more than 1S in the case of no network;
- Real-time statistics of the number of events can focus on frequent abnormal, support switching display in Chinese and English;

YCB9ZF-100AP,100W Smart Circuit Breaker

A



15 Advantages

- Maintenance safety lock: greatly ensure the personal safety of maintenance personnel;
- Protection against electric theft cover plate: it can effectively prevent electric theft, private cable, etc.
- Independent power supply design: it can effectively prevent the whole system from being paralyzed and unable to work;
- 1.3 inch OLED display design: Provide more intuitive man-machine operation interface for maintenance personnel;
- modular design: optional collocation, more flexible use;;
- High accuracy: voltage and current detection accuracy level 0.5, power accuracy level 1.0;
- The overall function of the circuit breaker saves the characteristics of the miniature circuit breaker;
- Flexible choice of communication mode, can also do gateway use;
- Flexible choice of function shutdown, alarm and tripping protection mode;
- A variety of remote upgrade mode, so that users upgrade maintenance no longer trouble;
- Power off protection design: After the power off of the main circuit, the data can be saved and uploaded without loss;
- Automatic judgment and analysis of fault causes and operation events, display log, convenient for maintenance and troubleshooting;
- The functions of load imbalance, missing phase, wrong phase and over temperature protection greatly ensure the aging of equipment and lines, and ensure the safety of electricity use;
- Timing switch function: guarantee the timing switch of equipment, guarantee energy consumption and save electricity;
- The leakage action protection is sensitive. Different leakage protection values can be set according to the use environment.

Usage and Precautions

- This product RS485 is a standard configuration communication port. It can be connected to computers and various communication devices through RS485 to USB converter to realize information exchange and control;
- The default baud rate of the system is 9600bps. You can check and set the required Baud rate in the setting communication menu.
- Network GPRS product, before use, you must insert SIM card, can through GPRS or gateway, router connection to the server to achieve Internet information exchange or remote control;
- Real-time query and analysis of all kinds of electricity consumption data and view the history, statistics and settlement of electricity consumption on a monthly basis;
- The product installation must be carried out by professional electricians;
- Products can be customized according to user needs, contact the relevant technical personnel.

YCB9ZF-100AP,100W Smart Circuit Breaker

A

Main technical parameters

Item	YCB9ZF-100AP	YCB9ZF-100W
Product		
Pol.	1P+N,3P+N	1P,2P,3P,4P
Rated voltage	Single-phase AC230V, 50/60Hz; Three-phase AC440V, 50/60Hz	
Rated current	32A,63A, 100A	
Residual operating current	30-500mA	
Short circuit breaking capacity	Icn=Ics=6kA	
Mechanical life	More than 20000 times	
Electrical life	More than 6000 times	
Action time	Leakage action less than 100ms; Closing time is less than 1.5s and opening time is less than 1S	
Protection grade	IP20	
Operating environment temperature	40 ℃~70 ℃	
Principle of action process	Under normal condition of voltage leakage: If the device is in the state of breaking, the device will not close automatically, but can only close remotely by controlling the device end or manually by local operation. If the device is in the closing state, the device will not open automatically, but can only close remotely by controlling the device end or manually open by local operation. Under abnormal voltage leakage: If the equipment is in the closing state, the equipment will automatically open, and voltage is changed to normal. If the leakage self-check is not normal, the equipment will continue to open automatically once. After troubleshooting, manually operate locally or remotely control the closing. If the device is in the opening state at this time, the device will not close automatically. After the voltage returns to normal, the device needs to be manually operated locally or remotely controlled to close.	
Remove lock	After manual on-site troubleshooting, remove the safety lock, push back the safety lock lever, and try to manually operate the closing and opening button once. Is the closing successful? If the closing is not successful, check whether the equipment is in arrears or other circumstances to perform the opening;	
Safety lock	After manual on-site troubleshooting, remove the safety lock, push back the safety lock lever, and try to manually operate the closing and opening button once. Is the closing successful? When the safety lock lever is not pulled out, the equipment is in operation mode: when the safety lock is pulled out, the equipment is in maintenance mode and can be repaired only after padlock is needed. The safety lock and the mechanical structure of the circuit breaker can not be closed even if manually or remotely controlled, so as to ensure the personal safety of the maintenance personnel.	

Modular DIN Rail

YCB9ZF-100AP,100W Smart Circuit Breaker

Main technical parameters

Item	Data
Product	
Thermo-magnetic release characteristic	C type (Other types can be customized)
Rated current In	63A,100A
Rated short-circuit capacity Icn	6kA
Short-circuit protection	When there is short circuit fault, it can trip within 100ms
Leakage protection	When there is leakage fault, it can trip within 100ms
Leakage protection value	30~500mA can be set freely
The leakage self-inspection	According to the actual use, can set the day, hour and minute
Over and under voltage protection	When there is over or under voltage fault, it can trip after 3s(0~99s can be set); over-voltage set value:250~320V; under-voltage set value:100~200V
On-delay	When there is power, the switch will be automatically closed,0~99s can be set
Rated current setting	1A~1In
Overload delay protection	0~99s can be set
Over temperature protection	0~120°C can be set, OFF-delay time 0~99s can be set
Under power	The amount of load change can be set, OFF-delay time 0~99s can be set
Over power	The amount of load change can be set, OFF-delay time 0~99s can be set
Power limit	Reach limit power, OFF-delay time 3s,(0~99s can be set)
Timing control	5 groups of times can be set
Imbalance	Percentage can be set for both voltage and current, OFF-delay time 0~99s can be set
Record	Locally queried 680 switch event logs
Display	Chinese and English Menu
Operation times	Record various operation times of circuit breaker to determine whether the circuit breaker is within its effective life
Maintain	Set self check, device reset, power reset, record reset, synchronize clock, restart device, restore system default, etc
Check	Local view of voltage, current, leakage current, temperature, active power, reactive power, apparent power, power factor, cumulative electricity, daily electricity (view 7-day record)
Manual automatic integrated control	Mobile phone APP or PC control, can be controlled by the button, can also be controlled through the handle
Cover plate, pull rod	It has the function of preventing electricity-stolen, maintenance and overhauls closed by mistake.
Communication mode	RS485 standard; 4G,WIFI,NB,RJ45 optional
Remote Software Upgrade	According to the actual situation, customized procedures to achieve remote update and upgrade
The following functions can be set to open, close, alarm or trip functions	overvoltage protection, undervoltage protection, overload protection, automatic closing, power off protection, remote control, open cover protection, under load protection, over power protection, under power protection, early warning function, timing self - check, warning allowed,gear return, high temperature protection, timing control, open phase protection, fault phase protection, voltage imbalance, current imbalance

Modular DIN Rail

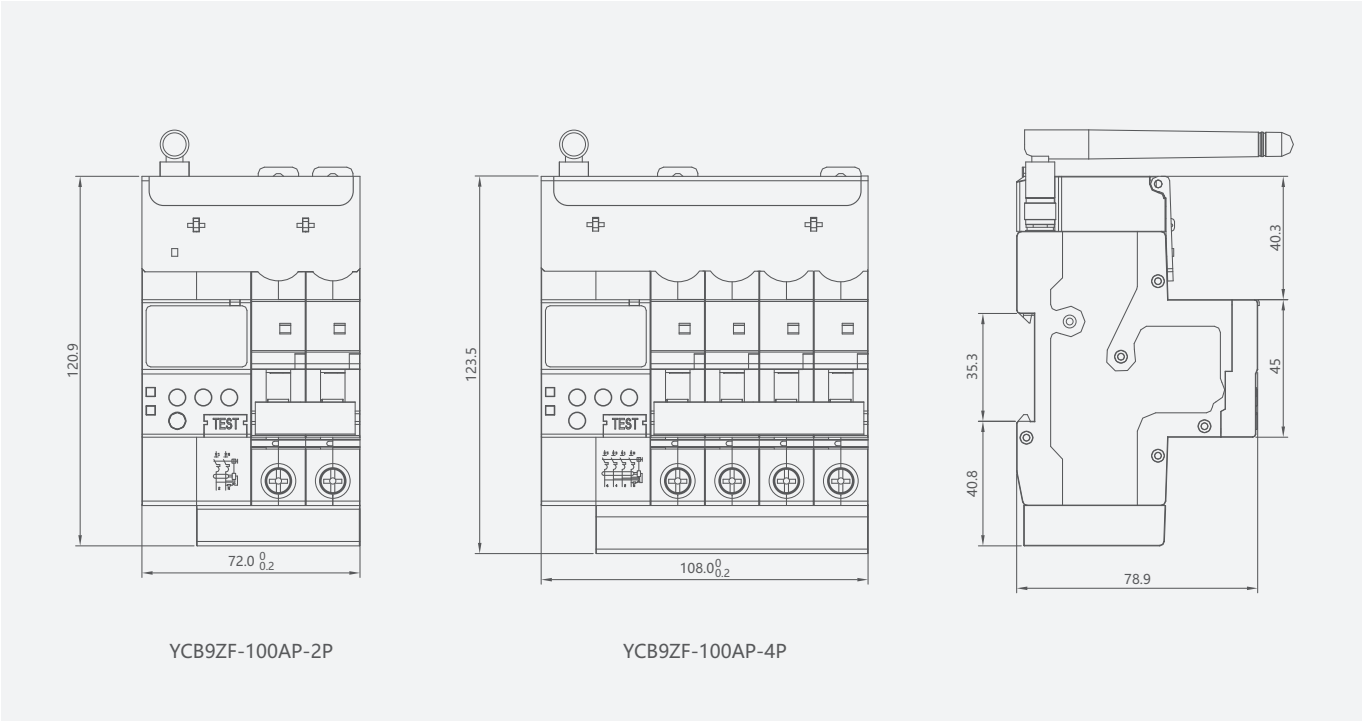
YCB9ZF-100AP,100W Smart Circuit Breaker

Main technical parameters

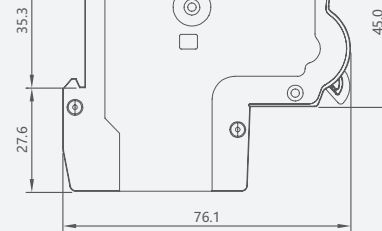
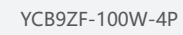
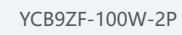
Item	Data
Product	
Thermo-magnetic release characteristic	C type (Other types can be customized)
Rated current In	16A,20A,25A,32A,40A,50A,63A,80A,100A
Rated short-circuit capacity Icn	6kA
Short-circuit protection	When there is short circuit fault, it can trip within 100ms
Over and under voltage protection	When there is over or under voltage fault, it can trip after 3s(0~99s can be set); Percentage can be set for over and under voltage
Overload delay protection	according to rated current, meet standard IEC 60898-1 requirement
Timing control	Set according to requirements
Check	The voltage and switching status can be checked through the APP on the phone
Manual automatic integrated control	Mobile phone APP control, can also be controlled through the handle
Communication mode	Wireless WIFI

Outline and installation dimensions

YCB9ZF-100AP



YCB9ZF-100AP,100W Smart Circuit Breaker



A

A