SASSIN

Better Electric, Better Life

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SASSIN V 28.4 PRODUCT CATALOG

SASSIN

Smart Electricity





Smart Electricity

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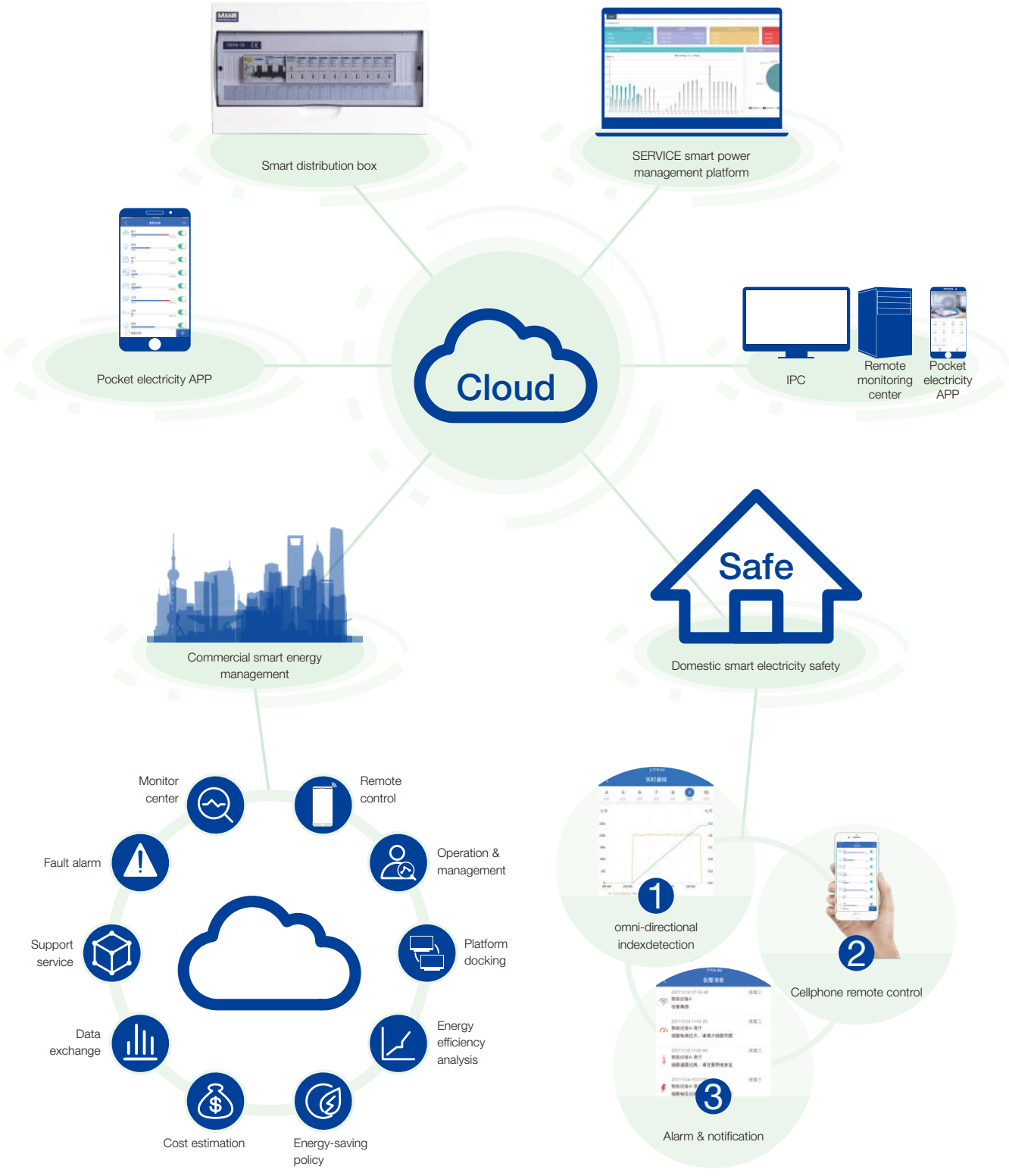
Contents

Smart Power Management System (SPMS)
Overview

The Smart Power Management System (SPMS) is an electric fire management system based on big data. Providing "Cloud monitoring" services, fully-safeguarding the safety of electricity.

Cloud monitoring

Technology of accurate data and information collection and monitoring, integrated with omni-directional detection, real-time alarm and remote control. Thanks to the electricity hosted services, the dream of easy electricity management is fulfilled.



Smart Power Management System (SPMS)
Overview

Social value

- **Demand lead the product**
  SPMS which supplies the real-time monitoring, comprehensive collection and precision analysis of kinds of power factors, is the basis of electrical safety assessment and prevention, as well a positive response to the demand of safe electricity by various industries, including the people's livelihood, city public safety, etc.

- **People-oriented, with a purpose to protect the safety of life and property**
  Due to the inadequate personnel, insufficient supervision and limited coverage, electrical fire hazards occur frequently. SPMS is on duty all day, could comprehensively settle them, help to establish scientific, continuous and effective methods to find potential danger then handling them, and promote the transition from passive safety supervision to the proactive security management.

- **Improve the energy efficiency**
  Improve the efficiency of production and management, which make energy conservation and environmental protection, and bring benefits to the mankind.

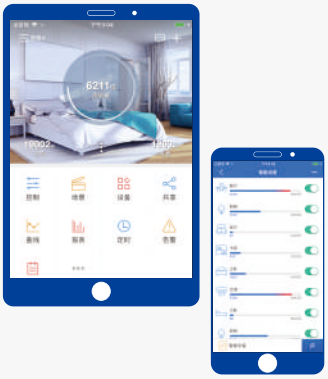


Smart electricity = 2 platforms + 1 termination
SPMS is composed of SASSIN SERVICE Smart power management platform, pocket electricity APP and smart distribution box.



SASSIN SERVICE Smart Power Management Platform

The smart power management platform provides the supervision, prediction and governance of potential electrical danger, and management of electricity information. It is able to check real-time data, historical data, alarm logs, and statistic information in the circuits online. It can also make adjustment to the power scheme according to the power consumption of peak and valley, accurately calculate the electricity consumption and cost.



Pocket Electricity APP

Log in the APP by using a registered account and password, customer can study the electricity status and security of power system via cell phone or tablet computer at any time from any place in the world.



Smart Distribution Box

Smart distribution box is integrated with kinds of smart electricity module, can predict and find the potential electrical hazards by detecting and collecting the real-time voltage, current, temperature, residual current, power and their changes of each circuit. Thanks to the functions of real-time alarm, fault locating and reason analyzing, the complex overhaul become simple, save cost and easy to make management.

According to the requirements of electric protection, the residual current devices, auto-reset overvoltage and undervoltage protectors and surge protective devices and so on can be configured to achieve leakage protection, overvoltage protection, undervoltage protection and surge protection for circuits and equipment.

The design of the intelligent smart power management system uses the typical four layers of the Internet of Things: the application layer, cloud service layer, communication layer and equipment layer. Based on the Internet of Things technology, the system provides intelligent power consumption safety monitoring and fire information management equipment and service platforms for base stations. With unified and centralized management in many aspects, the system can not only provide support for management and service, but also effectively integrate information and reduce human cost.

Three Subsystems Of Smart Power Electricity

01
Smart electric safety and risk supervision management system

02
Smart lighting management system

03
Smart energy management system

Management Layer



- Load analysis
- Analysis of electricity consumption and cost
- Energy-saving diagnosis and optimization
- Real-time data collection and monitoring
- Pre-alarm management
- Inspection management

Cloud Service Layer

Ali-cloud

aws

LAN

Communication Layer



4G LAN WiFi NB-IoT

Device Layer





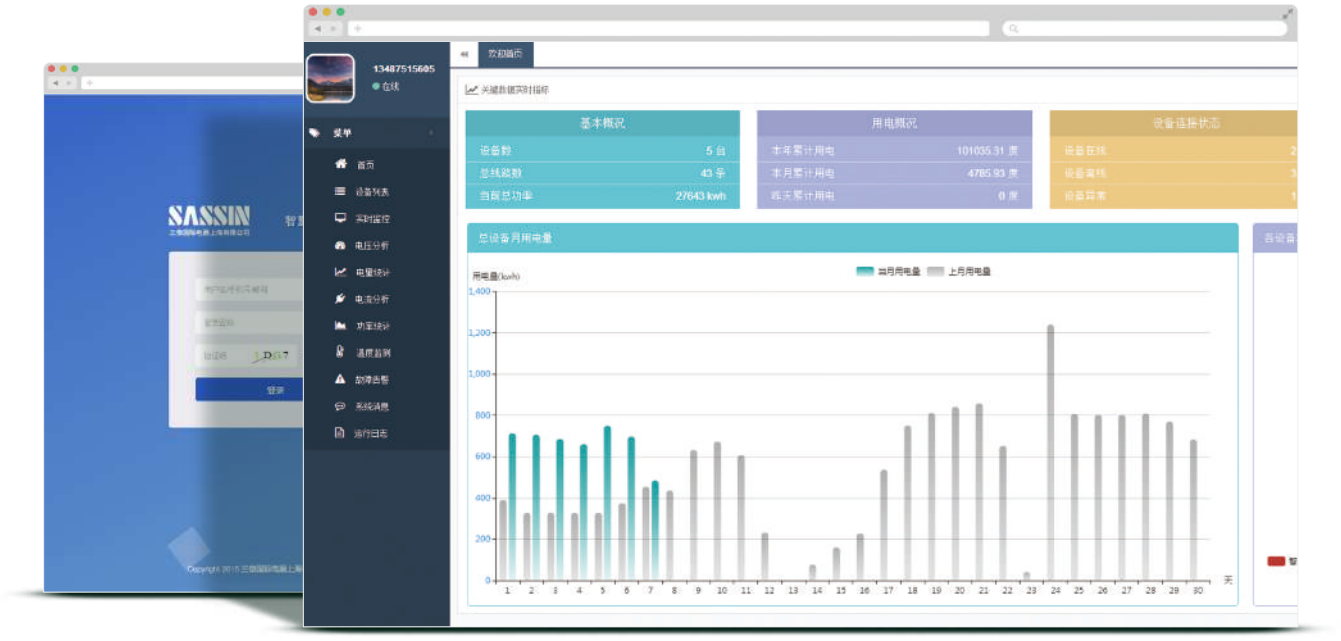


SASSIN SERVICE Smart power management platform

Smart scene type management strategy is adopted to curbman-made energy waste, monitor the lightings, air conditionings and other electrical equipment in whole building. Centralized control and subarea control are combined to improve the management efficiency.

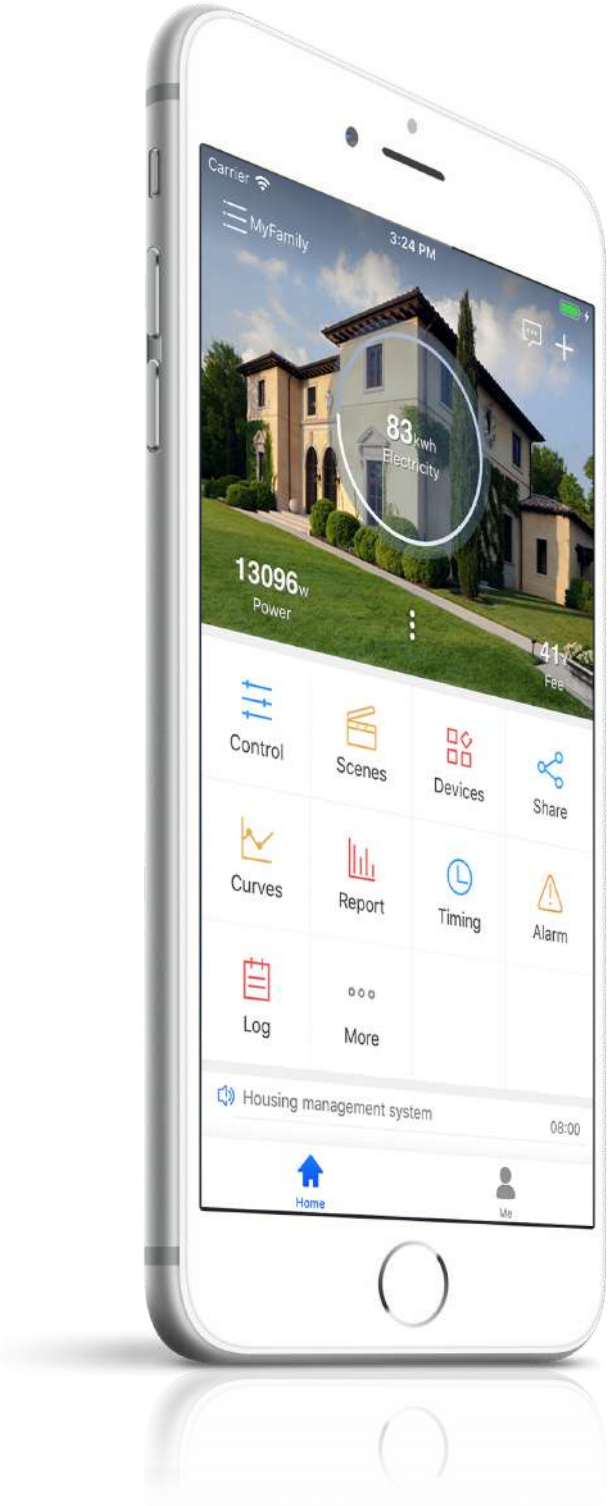
Visual background management

- Automatically create the parameter report of equipment status and trend lines of changes.
- Relative comparison and trend analysis on energy data, make fault prediction possible.
- Multi trend lines allow users to compare and analyze the associated parameters in the same coordinate system.
- Histogram and pie chart are used to compare the energy consumption between different period or classification, and the time period and classification can be freely allocated.
- Some key parameters are displayed on the page of energy consumption overview.
- The latest table controls facilitate the user to quickly screen out the required information.



Pocket Electricity APP

Considering the multiple electrical environment and endless electrical problems, it becomes very important to make the electricity controlled continuously on 7 days and 24 hours at any time from any place in the world.
Except the PC Control Platform, a newly developed APP of remote control system base on the Cloud Monitor Platform, break the limits of space and time, and enable the electricity administrators to easily and quickly monitor the electricity status and take rapid response to any electrical risk.





Omni-directional monitoring
Meet all requirements for power monitoring



Alarm & notification when abnormal
Real-time monitoring of all power consumption



Remote control by cellphone
Easier to switch on or switch off with a button only, at any time from any place.

Features


Residual current protection


Short circuit protection


Overvoltage protection


Undervoltage protection


Surge protection 1)


Overtemperature protection


Fault predict protection


Overload protection

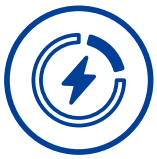

Voltage detection


Current detection


Temperature detection


Power detection

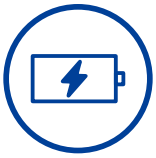

Residual current detection

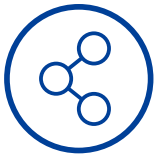

Electricity calculation

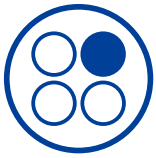

Electricity cost statistics


Operation log


Message record


Electricity limit


Sharing

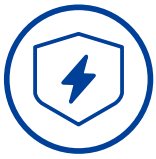

Customized scenes


Timing switch on or switch off


Power comparison curves


Remote control


Data report


Current limit

Note:
1. To be with surge protective device

Application
Overview

SPMS can be widely used in rental houses, shopping malls, schools, nursing homes, hospitals and enterprises etc.



IPC



Cloud monitoring



Remote monitoring center



Pocket electricity APP



Smart gateway



Smart distribution box



Smart switch



Smart switch



Smart switch



Smart switch module



Smart circuit breaker

This solution adopts SPMS and smart distribution box as the safety switch and the electric metering equipment for the main circuit and branch circuits of each floor.

Current electricity status

- Heavy load and trip frequently.
- Low fault-removing efficiency, high maintenance cost, and high pressure of management.
- Lots of combustible decorative materials, easy to trigger electrical fire accidents.

Solution

In order to achieve safe electricity and energy saving management for all shops, smart distribution boxes are installed in shops, connecting lighting, sockets, air conditioners and other circuits.

NO	Product name	Specification	Quantity	Remarks
1	Residual current circuit breaker with overload protection (optional)	3SB71LM-63 2P C63 30 mA	1	Overload protection Short circuit protection Residual current protection
2	Smart gateway	iGW70	1	Data transmission
3	Smart switch	iSS711	5	Connecting each circuit
4	Distribution box	3SD5-12	1	Flame retardant material

Benefit

- **User-defined current value**
  Current value in each circuit can be set by user to meet different requirementsof use.
- **Curve function**
  Comparable power curves enable the load of each circuit to be analyzed.
- **Fault alarm function**
  Thresholds of current, voltage and other indicators can be set by users. Warning signal will be given first together with fault location, alarm cause analysis and scheduling suggestions when over-limit.
- **Remote control**
  After alarm, user can remote control to open the circuits, or if the alarm is ignored, the distribution box will act accordingly.
- **Over temperature protection**
  Alarm signal will be given and circuits will be opened if temperature is over limit.



Application
in Chain Supermarkets

Current electricity status

- Lack of effective power safety inspection tools.
- Only few professional electrical personnel.
- A lot of electricity spots, difficult to manage.

Solution

Adopt smart distribution boxes connecting the circuits of lighting, sockets around counters, the air conditioners etc.

NO	Product name	Specification	Quantity	Remark
1	Residual current circuit breaker with overload protection	3SB71LM-63 2P C63 30 mA	1	Overload protection Short circuit protection Residual current protection
2	Smart Gateway	iGW70	1	data transmission
3	Smart switch	iSS711	30	Connecting each circuit
4	Distribution box	3SD5-36	1	Flame retardant material

Benefit

- **Real-time monitoring**
  Real-time monitoring electricity factors and timely detect security risks;
- **Digital display**
  The power consumption is digitized which make the power status concrete and simple;
- **Fault-removing suggestion**
  Improve the maintenance efficiency, make fault-removing simple and reliable.



Application in Schools

Improving the safety of campus electricity is very important for building a safe campus.

Current electricity status

- Complex electricity environment in school.
- Illegally using electrical appliances and difficult to make management.
- High population density and poor strain ability.
- Serious waste of electricity.

Solution

Smart distribution boxescan be directly installed on the DIN-rail of low voltage switchboard of the floor distribution room as devices for guarantee of power safety and electricity metering for each classroom or dormitories in each floor.

The configuration in floor distribution room is as follows:

NO	Product name	Specification	Quantity	Remark
1	Residual current circuit breaker with overload protection	3SB71LM-63 2P C63 30 mA	As per quantity of dormitory	

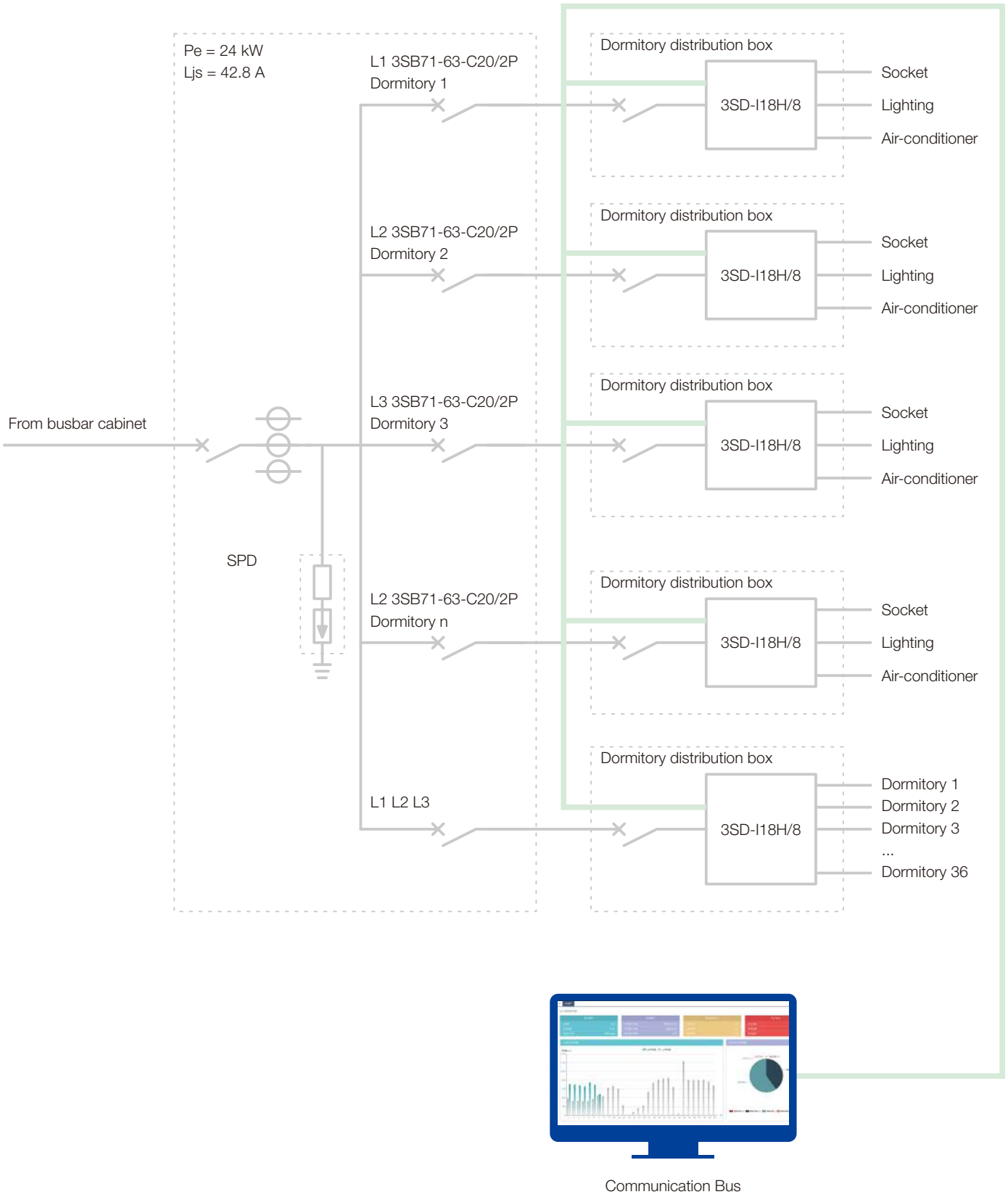
Indoor
Connect the circuits of lighting, sockets, air conditionersetc.

NO	Product name	Specification	Quantity	Remark
1	Residual current circuit breaker with overload protection	3SB71LM-63 2P C63 30 mA	1	Overload protection Short circuit protection Leakage protection
2	Smartgateway	iGW70	1	Data transmission
3	Smart switch	iSS711	4	Connecting each circuit
4	Distribution box	3SD5-12	1	Flame retardant material

Benefit

- **Overload protection**
  Set rated power, over-limit alarm.
- **Timing function**
  Close or open a circuit at a certain time.
- **Power comparison**
  Timely discovery of illegal use of high-power electrical appliances to eliminate security risks.
- **Remote control**
  Remote control of opening circuit for rooms where large power electrical appliances are used, increase the sense of safety electricity.





Communication Bus

Application in Rental houses

The electric accidents in the rental houses have come out in an endless stream.

Current electricity status

- Many electrical apparatus and complex electric environment.
- Aging lines and disorderly connection.
- Many apparatuses with heavy power which may cause electrical fire.
- Uneven allocation of electricity fee.

Solution

SPMS and Smart distribution box can be used to guaranteethe electric safety and make measurement for each rental house.

Install smart distribution boxes in the rental houses or rooming houses, to prevent unsafe electrical behavior, take precise measurement of electricity consumption and reasonable allocation of electricity fee.

NO	Product name	Specification	Quantity	Remark
1	Residual current circuit breaker with overload protection	3SB71LM-63 2P C63 30 mA	1	Overload protection Short circuit protection Residual current protection
2	Smart gateway	iGW70	1	Data transmission1
3	Smart switch	iSS711	4	As per quantity of rental housing
4	Distribution box	3SD5-12	1	Flame retardant material

Benefit

- **Remote monitoring**
  Remote monitoring by computer, check the working status and illegal record and remote switch on or switch off the power supply for rooms.

- **Overload protection**
  Automatic cut off the power supply if there is unallowable using of heating appliances (such as electric stove, electric blanket, electric heater).

- **Split the electricity fee**
  Automatic calculate the real-time electricity fee for each room, avoid the quarrel about uneven allocation of electricity fee.



Application
in Rental Houses

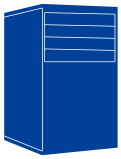
System network topology



Independent photoelectric
smoke and fire detection alarm



Cloud monitoring



Remote monitoring
center



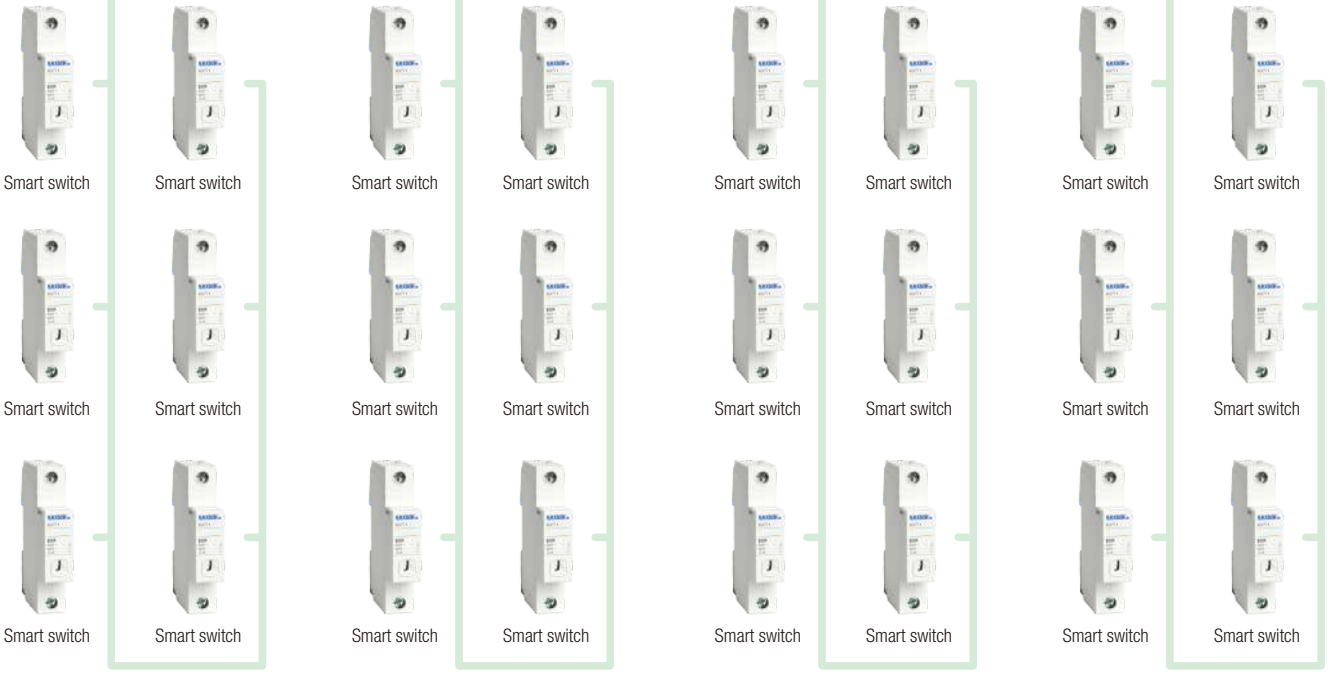
Smart distribution box



Smart distribution box



Smart distribution box



Smart Switches iS...700

Overview



iSS700 series smart switches are newly developed smart electric product which is with functions of overcurrent protection, short-time delayed short-circuit protection, under-voltage and over-voltage protection, and residual current monitoring or protection.

Available versions:

- SASSIN SMART
- TUYA

NOTE: plesase note APP version when placing order

Standard

iSS.700: IEC 60947-3
iSR.700: IEC61008-1

Application

Suitable for single phase low voltage power distribution system to protect the circuits and electric equipment against overcurrent, short-circuit, under-voltage and over-voltage, and residual current. The smart switches can be operated by manual, or remotely if a smart gateway is applied.

Functions

Protection and functions		Characteristic
Protection	Overcurrent protection	Adjustable via RS485
	Over-voltage protection	275 V adjustable via RS485
	Under-voltage protection	160 V adjustable via RS485
	Over temperature protection	80 °C
	Residual current protection	30 mA adjustable for iSRM.700 fixed for iSRP.700
Detection and measurement	Voltage	Real-time monitoring
	Current	
	Temperature	
	Power	
	Power consumption measurement	
Communication port	RS485 (MODBUS)	Standard configuration Time open or close.
Control		Function can be closed.

LED light

Green	ON
Red	OFF

Technical specifications

		iSS711	iSS715	iSRPC715	iSRPC715T	iSRMC715	iSRMC715T	iSRP715	iSRP715T	iSRM715	iSRM715T
Number of poles		1P	1P+N	1P+N	1P+N	1P+N	1P+N	1P+N	1P+N	1P+N	1P+N
Rated current In	A	6, 10, 16, 20, 25, 32, 40, 50, 63		6, 10, 16, 20, 25, 32, 40				6, 10, 16, 20, 25, 32, 40, 50, 63			
Rated voltage Ue	V AC	230									
SASSIN APP		√	√	√	√	√	√	√	√	√	√
Tuya APP		√	√	√	√	√	√	√	√	√	√
Bluetooth voice control		-	-	√	√	√	√	√	√	√	√
Rated frequency f	Hz	50									
Rated short-circuit breaking capacity	kA	10									
Measurement accuracy											
Voltage		1%		1%				1%			
Current		1%		1%				1%			
Power		1%		1%				1%			
Power consumption		1%		1%				1%			
Protection parameter											
Overcurrent		1...In adjustable		1... In adjustable				1...In adjustable			
Residual current	mA	-		30 fixed		1...300 adjustable		30 fixed		1...300 adjustable	
Over-voltage action	V	-	275	275				275			
Over-voltage alarm	V	-	265	265				265			
Under-voltage action	V	-	175	175				175			
Under-voltage alarm	V	-	160	160				160			
Over temperature action	°C	80		-	80	-	80	-	80	-	80
Over temperature alarm	°C	75		-	75	-	75	-	75	-	75
Protection level		IP20		IP20				IP20			
Communication		RS485		RS485				RS485			
Upgrade mode		RS485		RS485				RS485			
Working and installation conditions											
Altitude	m	≤ 2000									
Ambient temperature	°C	-5 … +40									
Environmental		No explosion danger, no conductive dust, no corrosion of metal and damage to insulation, no significant shock and impact									
Relative humidity		50 % at +40 °C. Higher relative humidity is available at lower temperatures.									
Storage temperature	°C	-40 … +80									
Pollution level		II									
Installation		35 mm DIN rail									
Dimensions											
H	mm	95	95	110				95			
W	mm	18	36	18				36			
D	mm	71.5	71.5	71.5				71.5			

Selection and ordering data



Number of poles	Width mm	Rated current In A	Adjust range A	Type code	Order code
1P	18	6	1 … 6	iSS711-6	**37192**
		10	1 … 10	iSS711-10	**37193**
		16	1 … 16	iSS711-16	**37194**
		20	1 … 20	iSS711-20	**37195**
		25	1 … 25	iSS711-25	**37196**
		32	1 … 32	iSS711-32	**37197**
		40	1 … 40	iSS711-40	**37198**
		50	1 … 50	iSS711-50	**37199**
		63	1 … 63	iSS711-63	**37200**
1P+N	36	6	1 … 6	iSS715-6	**37265**
		10	1 … 10	iSS715-10	**37266**
		16	1 … 16	iSS715-16	**37267**
		20	1 … 20	iSS715-20	**37268**
		25	1 … 25	iSS715-25	**37269**
		32	1 … 32	iSS715-32	**37270**
		40	1 … 40	iSS715-40	**37271**
		50	1 … 50	iSS715-50	**37272**
		63	1 … 63	iSS715-63	**37273**

iSR.C715, Smart Switches with Residual Current Protection, Compact

Selection and ordering data



Number of poles	Width mm	Rated current In A	Adjustable current range A	Type code	Order code
iSRPC715					
IΔn = 30 mA fixed, without over termperature protection, compact					
1P+N	18	6	1 … 6	iSRPC715-6-30	**37201**
		10	1 … 10	iSRPC715-10-30	**37202**
		16	1 … 16	iSRPC715-16-30	**37203**
		20	1 … 20	iSRPC715-20-30	**37204**
		25	1 … 25	iSRPC715-25-30	**37205**
		32	1 … 32	iSRPC715-32-30	**37206**
		40	1 … 40	iSRPC715-40-30	**37207**
iSRPC715T					
IΔn = 30 mA fixed, with over termperature protection, compact					
1P+N	18	6	1 … 6	iSRPC715T-6-30	**37208**
		10	1 … 10	iSRPC715T-10-30	**37209**
		16	1 … 16	iSRPC715T-16-30	**37210**
		20	1 … 20	iSRPC715T-20-30	**37211**
		25	1 … 25	iSRPC715T-25-30	**37212**
		32	1 … 32	iSRPC715T-32-30	**37213**
		40	1 … 40	iSRPC715T-40-30	**37214**
iSRMC715					
IΔn = 1…300 mA adjustable, without over termperature protection, compact					
1P+N	18	6	1 … 6	iSRMC715-6-30	**37215**
		10	1 … 10	iSRMC715-10-30	**37216**
		16	1 … 16	iSRMC715-16-30	**37217**
		20	1 … 20	iSRMC715-20-30	**37218**
		25	1 … 25	iSRMC715-25-30	**37219**
		32	1 … 32	iSRMC715-32-30	**37220**
		40	1 … 40	iSRMC715-40-30	**37221**
iSRMC715T					
IΔn = 1…300 mA adjustable, with over termperature protection, compact					
1P+N	18	6	1 … 6	iSRMC715T-6-30	**37222**
		10	1 … 10	iSRMC715T-10-30	**37223**
		16	1 … 16	iSRMC715T-16-30	**37224**
		20	1 … 20	iSRMC715T-20-30	**37225**
		25	1 … 25	iSRMC715T-25-30	**37226**
		32	1 … 32	iSRMC715T-32-30	**37227**
		40	1 … 40	iSRMC715T-40-30	**37228**

iSR.715, Smart Switches with Residual Current Protection

Selection and ordering data

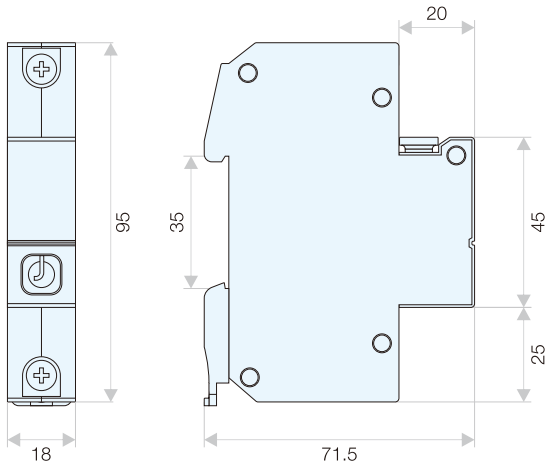


Number of poles	Width mm	Rated current In A	Adjustable current range A	Type code	Order code
iSRP715					
IΔn = 30 mA fixed, without over termperature protection					
1P+N	36	6	1 … 6	iSRP715-6-30	**37229**
		10	1 … 10	iSRP715-10-30	**37230**
		16	1 … 16	iSRP715-16-30	**37231**
		20	1 … 20	iSRP715-20-30	**37232**
		25	1 … 25	iSRP715-25-30	**37233**
		32	1 … 32	iSRP715-32-30	**37234**
		40	1 … 40	iSRP715-40-30	**37235**
		50	1 … 50	iSRP715-50-30	**37236**
		63	1 … 63	iSRP715-63-30	**37237**
iSRP715T					
IΔn = 30 mA fixed, with over termperature protection					
1P+N	36	6	1 … 6	iSRP715T-6-30	**37238**
		10	1 … 10	iSRP715T-10-30	**37239**
		16	1 … 16	iSRP715T-16-30	**37240**
		20	1 … 20	iSRP715T-20-30	**37241**
		25	1 … 25	iSRP715T-25-30	**37242**
		32	1 … 32	iSRP715T-32-30	**37243**
		40	1 … 40	iSRP715T-40-30	**37244**
		50	1 … 50	iSRP715T-50-30	**37245**
		63	1 … 63	iSRP715T-63-30	**37246**
iSRM715					
IΔn = 1…300 mA adjustable, without over termperature protection					
1P+N	36	6	1 … 6	iSRM715-6	**37247**
		10	1 … 10	iSRM715-10	**37248**
		16	1 … 16	iSRM715-16	**37249**
		20	1 … 20	iSRM715-20	**37250**
		25	1 … 25	iSRM715-25	**37251**
		32	1 … 32	iSRM715-32	**37252**
		40	1 … 40	iSRM715-40	**37253**
		50	1 … 50	iSRM715-50	**37254**
		63	1 … 63	iSRM715-63	**37255**
iSRM715T					
IΔn = 1…300 mA adjustable, with over termperature protection					
1P+N	36	6	1 … 6	iSRM715T-6	**37256**
		10	1 … 10	iSRM715T-10	**37257**
		16	1 … 16	iSRM715T-16	**37258**
		20	1 … 20	iSRM715T-20	**37259**
		25	1 … 25	iSRM715T-25	**37260**
		32	1 … 32	iSRM715T-32	**37261**
		40	1 … 40	iSRM715T-40	**37262**
		50	1 … 50	iSRM715T-50	**37263**
		63	1 … 63	iSRM715T-63	**37264**

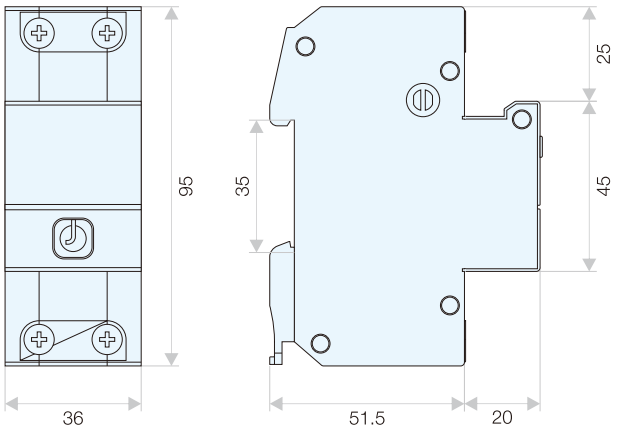
Outline and installation dimensions

unit in mm

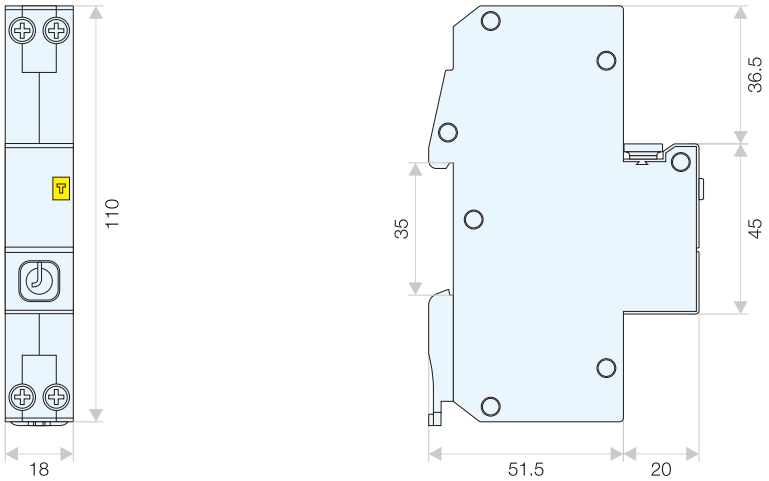
iSS711



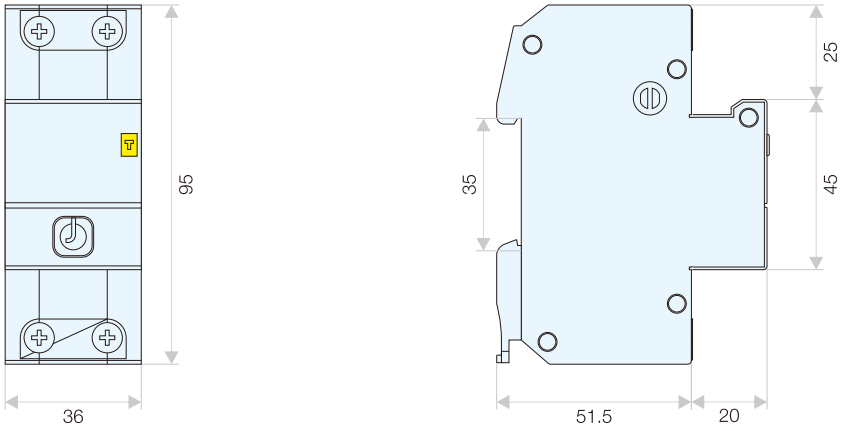
iSS715



iSRPC715 / iSRPC715T / iSRMC715 / iSRMC715T



iSRP715 / iSRP715T / iSRM715 / iSRM715T



Smart Miniature Circuit Breakers iB600

Application

iB600 series of Smart Miniature Circuit Breaker (hereinafter referred to as Smart MCB) suitable for AC 50/60Hz, rated voltage AC 230/400V, rated current up to 100A low-voltage power grid. It integrates comprehensive protection, high-precision measurement, control, and communicaiton functions. It has RS485 communication mode. With the intelligent gateway, it can upload real-time data, operating status, line faults, alarms and other information to the electrical safety IoT supervision. The platform can realize data monitoring, hidden danger management, energy consumption management and power consumption optimization improvement of power distribution system, effectively improve the overall perception ability of the line, and improve the safety and reliability of power supply.



Available versions:

- SASSIN SMART
- TUYA

NOTE: plesase note APP version when placing order

Functions

Functions		Settings
Electrical protection	Overload protection	
	Short circuit protection	
	Isolation	
	Phase failure protection	
	Over-voltage protection	275 V / 480 V
	Under-voltage protection	160 V / 280 V
	Over temperature protection	80 °C (default)
	Over power protection	
	Phase imbalance protection	Set according to customer
	Arc fault protection	Optional function
	Independant protection	Loss of electronic protection function, does not affects the basic mechanical protection function
Detection and measurement	Voltage	
	Current	
	Power	
	Power consumption measurement	
Communication	RS485 (MODBUS)	Standard configuration
Other function	Temperature monitoring	Terminal temperature

LED light

Solid green	Normal working
Solid red	Fault
Blink red	Alarm

Smart Miniature Circuit Breakers iB600

Technical specifications

		iB611	iB612	iB613	iB614	iB615	iB616
Basic data							
Number of poles		1P	2P	3P	4P	1P+N	3P+N
Standard		IEC 60898-1					
SASSIN APP		√	√	√	√	√	√
Tuya APP		√	√	√	√	√	√
Bluetooth voice control		-	-	-	-	-	-
Frame size	A	100					
Tripping characteristics		B characteristic (3-5) In C characteristic (5-10) In D characteristic (10-14) In					
Rated current In	A	6, 10, 16, 20, 25, 32, 40, 50, 63,80,100					
Rated voltage Ue	V	230(1P,1P+N) ,400(2P,3P,3P+N,4P)					
Rated frequency f	Hz	50					
Rated short circuit breaking capacity Icn	kA	10 (≤63A) , 6 (>63A)					
Rated insulation voltage Ui	V	500					
Rated impluse withstand voltage Uimp	kV	4					
Communication port		RS485					
Upgrade mode		RS485					
Electrical life (times)		10000					
Mechanical life (times)		20000					
Measurement accuracy							
Voltage		0.7Un≤U<1.3Un 0.5s ; 1.3Un≤U<1.8Un 0.2s					
Current		0.05In≤I<0.2In 0.5s ; 0.2In≤I<1.2In 0.2s					
Power		0.05In≤I<0.1In class1 ; 0.1In≤I<1.2In class0.5					
Power consumption		0.05In≤I<0.1In class1 ; 0.1In≤I<1.2In class0.5					
Protection parameter							
Over termperature action	°C	80					
Over-voltage action	V	275					
Under-voltage action	V	165					
Overcurrent protection		1 ~In adjustable					
Phase imbalance Short circuit protection		⩽5% (3P,3P+N,4P)					
Working and installation conditions							
Altitude	m	⩽ 2000					
Ambient temperature	°C	-5 … +40					
Environmental		No explosion danger, no conductive dust, no corrosion of metal and damage to insulation, no significant shock and impact					
Relative humidity		50% at +40 °C. Higher relative humidity is available at lower temperatures.					
Storage temperature	°C	-40 … +80					
Pollution level		II					

Trip characteristics

Thermal release

Tripping characteristics	Test current	Initial condition	Limit of tripping or non-tripping time	Result to be obtained
B,C,D	1.13 In	Cold	≤ 1 h	No tripping
	1.45 In	Immediately following test 1.13 In	< 1 h	Tripping

Electromagnetic release

Tripping characteristics	Test current	Initial condition	Limit of tripping or non-tripping time	Result to be obtained
B	3 In	Cold	≤ 0.1 s	No tripping
	5 In		< 0.1 s	Tripping
C	5 In	Cold	≤ 0.1 s	No tripping
	10 In		< 0.1 s	Tripping
D	10 In	Cold	≤ 0.1 s	No tripping
	14 In		< 0.1 s	Tripping

Smart Miniature Circuit Breakers iB600

Selection and ordering data

Number of poles	width	Rated current	Characteristic B	Characteristic C	Characteristic D
	mm	A	Type code	Type code	Type code
1P	36	6	iB611-B6	iB611-C6	iB611-D6
		10	iB611-B10	iB611-C10	iB611-D10
		16	iB611-B16	iB611-C16	iB611-D16
		20	iB611-B20	iB611-C20	iB611-D20
		25	iB611-B25	iB611-C25	iB611-D25
		32	iB611-B32	iB611-C32	iB611-D32
		40	iB611-B40	iB611-C40	iB611-D40
		50	iB611-B50	iB611-C50	iB611-D50
		63	iB611-B63	iB611-C63	iB611-D63
		80	iB611-B80	iB611-C80	iB611-D80
		100	iB611-B100	iB611-C100	iB611-D100
1P+N	54	6	iB615-B6	iB615-C6	iB615-D6
		10	iB615-B10	iB615-C10	iB615-D10
		16	iB615-B16	iB615-C16	iB615-D16
		20	iB615-B20	iB615-C20	iB615-D20
		25	iB615-B25	iB615-C25	iB615-D25
		32	iB615-B32	iB615-C32	iB615-D32
		40	iB615-B40	iB615-C40	iB615-D40
		50	iB615-B50	iB615-C50	iB615-D50
		63	iB615-B63	iB615-C63	iB615-D63
		80	iB615-B80	iB615-C80	iB615-D80
		100	iB615-B100	iB615-C100	iB615-D100
2P	54	6	iB612-B6	iB612-C6	iB612-D6
		10	iB612-B10	iB612-C10	iB612-D10
		16	iB612-B16	iB612-C16	iB612-D16
		20	iB612-B20	iB612-C20	iB612-D20
		25	iB612-B25	iB612-C25	iB612-D25
		32	iB612-B32	iB612-C32	iB612-D32
		40	iB612-B40	iB612-C40	iB612-D40
		50	iB612-B50	iB612-C50	iB612-D50
		63	iB612-B63	iB612-C63	iB612-D63
		80	iB612-B80	iB612-C80	iB612-D80
		100	iB612-B100	iB612-C100	iB612-D100
3P	72	6	iB613-B6	iB613-C6	iB613-D6
		10	iB613-B10	iB613-C10	iB613-D10
		16	iB613-B16	iB613-C16	iB613-D16
		20	iB613-B20	iB613-C20	iB613-D20
		25	iB613-B25	iB613-C25	iB613-D25
		32	iB613-B32	iB613-C32	iB613-D32
		40	iB613-B40	iB613-C40	iB613-D40
		50	iB613-B50	iB613-C50	iB613-D50
		63	iB613-B63	iB613-C63	iB613-D63
		80	iB613-B80	iB613-C80	iB613-D80
		100	iB613-B100	iB613-C100	iB613-D100
3P+N	90	6	iB616-B6	iB616-C6	iB616-D6
		10	iB616-B10	iB616-C10	iB616-D10
		16	iB616-B16	iB616-C16	iB616-D16
		20	iB616-B20	iB616-C20	iB616-D20
		25	iB616-B25	iB616-C25	iB616-D25
		32	iB616-B32	iB616-C32	iB616-D32
		40	iB616-B40	iB616-C40	iB616-D40
		50	iB616-B50	iB616-C50	iB616-D50
		63	iB616-B63	iB616-C63	iB616-D63
		80	iB616-B80	iB616-C80	iB616-D80
		100	iB616-B100	iB616-C100	iB616-D100

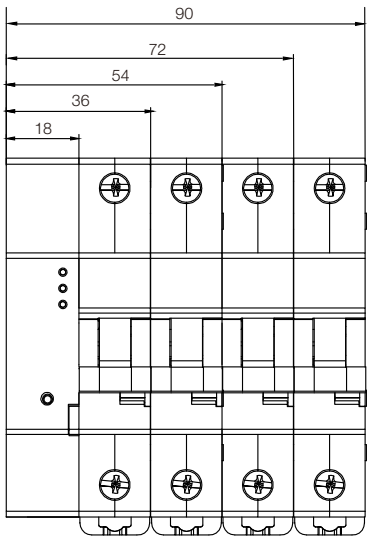
Smart Miniature Circuit Breakers iB600

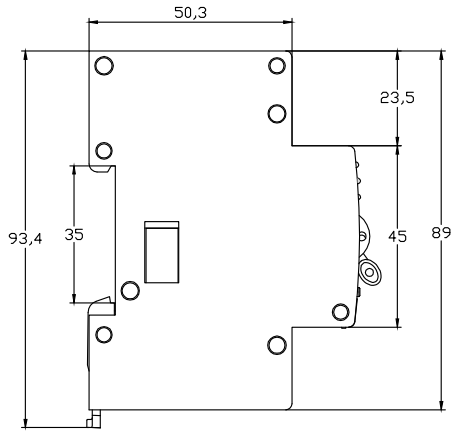
Selection and ordering data

Number of poles	width	Rated current	Characteristic B	Characteristic C	Characteristic D
	mm	A	Type code	Type code	Type code
4P	90	6	iB614-B6	iB614-C6	iB614-D6
		10	iB614-B10	iB614-C10	iB614-D10
		16	iB614-B16	iB614-C16	iB614-D16
		20	iB614-B20	iB614-C20	iB614-D20
		25	iB614-B25	iB614-C25	iB614-D25
		32	iB614-B32	iB614-C32	iB614-D32
		40	iB614-B40	iB614-C40	iB614-D40
		50	iB614-B50	iB614-C50	iB614-D50
		63	iB614-B63	iB614-C63	iB614-D63
		80	iB614-B80	iB614-C80	iB614-D80
		100	iB614-B100	iB614-C100	iB614-D100

Outline and installation dimension

unit in mm





Smart Miniature Circuit Breakers iBD600

Application

iBD600 series of Smart Miniature Circuit Breaker (hereinafter referred to as Smart MCB), rated voltage DC 48 V/250V, rated current up to 63 A/100 A low-voltage power grid. It integrates comprehensive protection, high-precision measurement, control and communication functions. It has RS485 communication mode. With the intelligent gateway, it can upload real-time data, operating status, line faults, alarms and other information to the electrical safety Internet of Things supervision. The platform can realize data monitoring, hidden danger management, energy consumption management and power consumption optimization improvement of power distribution system,effectively improve the overall perception ability of the line, and improve the safety and reliability of power supply



Functions

Functions		Settings
Electrical protection	Overload protection	
	Short circuit protection	
	Isolation	
	Over-voltage protection	48V:56VDC; 250V:300VDC
	Under-voltage protection	48V:30VDC; 250V:180VDC
	Over temperature protection	80 °C (default)
	Independant protection	Loss of electronic protection function, does not affects the basic mechanical protection function
Detection and measurement	Voltage Current	Standard configuration
	Power	
	Power consumption measurement	
Communication	RS485 (MODBUS)	
Other function	Temperature monitoring	Terminal temperature

LED light

Solid green	Normal working
Solid red	Fault
Blink red	Alarm

Trip characteristics

Test current	Initial condition	Limit of tripping or non-tripping time	Result to be obtained
1.03 In	Cold	⩽1 h	No tripping
1.3 In	Immediately following test 1.03 In	< 1 h	Tripping

Technical specifications

Basic data		iBD600-63		iBD600-100	
		iBD611	iBD612	iBD621	iBD622
SASSIN APP		√	√	√	√
Tuya APP		√	√	√	√
Bluetooth voice control		-	-	-	-
Number of poles		1P	2P	1P	2P
Standard		IEC 60947-2			
Frame size	A	63		100	
Rated current In		6, 10, 16, 20, 25, 32, 40, 50, 63		63,80,100	
Rated voltage Ue		DC48/DC220/DC230/DC250			
Rated short circuit breaking capacity Icn	kA	10 (≤63A) , 6 (>63A)			
Rated insulation voltage Ui	V	500			
Rated impluse withstand voltage Uimp	kV	4			
Communication port		RS485			
Upgrade mode		RS485			
Electrical life (times)		10000			
Mechanical life (times)		20000			
Measurement accuracy					
Voltage		0.7Un≤U<1.3Un 0.5s ; 1.3Un≤U<1.8Un 0.2s			
Current		0.05In≤I<0.2In 0.5s ; 0.2In≤I<1.2In 0.2s			
Power		0.05In≤I<0.1In class1 ; 0.1In≤I<1.2In class0.5			
Power consumption		0.05In≤I<0.1In class1 ; 0.1In≤I<1.2In class0.5			
Protection parameter					
Over termperature action	℃	The default is 80 °C, the tripping time is 10 s, (60~85)°C is adjustable			
Over-voltage action	V	DC 48 V: tripping above 56 V DC (adjustable), tripping time (3~15) S DC 250 V: tripping above DC 300 V (adjustable), tripping time (3~15) S			
Under-voltage action	V	DC 48 V: tripping below 30 V DC (adjustable), tripping time (0.6~5)S DC 250 V: tripping below 180 V DC (adjustable), tripping time (0.6~5)S			
Overload protection		1.05In non-tripping, 1.3 In tripping (conventional time)			
Working and installation conditions					
Altitude	m	⩽2000			
Ambient temperature	℃	−5 … +40			
Environmental		No explosion danger, no conductive dust, no corrosion of metal and damage to insulation, no significant shock and impact			
Relative humidity		50% at +40 °C. Higher relative humidity is available at lower temperatures			
Storage temperature	℃	-40 … +80			
Pollution level		II			

Model selection

Number of poles	Width mm	Rated current In A	Type code			
			48VDC	220VDC	230VDC	250VDC
1P	36mm	6	iBD611-0648	iBD611-06220	iBD611-06230	iBD611-06250
		10	iBD611-1048	iBD611-10220	iBD611-10230	iBD611-10250
		16	iBD611-1648	iBD611-16220	iBD611-16230	iBD611-16250
		20	iBD611-2048	iBD611-20220	iBD611-20230	iBD611-20250
		25	iBD611-2548	iBD611-25220	iBD611-25230	iBD611-25250
		32	iBD611-3248	iBD611-32220	iBD611-32230	iBD611-32250
		40	iBD611-4048	iBD611-40220	iBD611-40230	iBD611-40250
		50	iBD611-5048	iBD611-50220	iBD611-50230	iBD611-50250
		63	iBD611-6348	iBD611-63220	iBD611-63230	iBD611-63250
		80	iBD611-8048	iBD611-80220	iBD611-80230	iBD611-80250
		100	iBD611-10048	iBD611-100220	iBD611-100230	iBD611-100250
2P	54mm	6	iBD612-0648	iBD612-06220	iBD612-06230	iBD612-06250
		10	iBD612-1048	iBD612-10220	iBD612-10230	iBD612-10250
		16	iBD612-1648	iBD6121-16220	iBD612-16230	iBD612-16250
		20	iBD612-2048	iBD612-20220	iBD612-20230	iBD612-20250
		25	iBD612-2548	iBD612-25220	iBD612-25230	iBD612-25250
		32	iBD612-3248	iBD612-32220	iBD612-32230	iBD612-32250
		40	iBD612-4048	iBD612-40220	iBD612-40230	iBD612-40250
		50	iBD612-5048	iBD612-50220	iBD612-50230	iBD612-50250
		63	iBD612-6348	iBD612-63220	iBD612-63230	iBD612-63250
		80	iBD612-8048	iBD612-80220	iBD612-80230	iBD612-80250
		100	iBD612-10048	iBD612-100220	iBD612-100230	iBD612-100250

Smart Residual Current Circuit Breaker with Overcurrent Protection iRB600E

Application

iRB600E series of smart residual current circuit breaker with overcurrent protection are suitable for AC 50/60Hz, rated voltage AC 230/400V, rated current up to 100A low-voltage power grid. It integrates comprehensive protection, high-precision measurement, control, and communicaiton functions. It has RS485 communication mode. With the intelligent gateway, it can upload real-time data, operating status, line faults, alarms and other information to the electrical safety IoT supervision. The platform can realize data monitoring, hidden danger management, energy consumption management and power consumption optimization improvement of power distribution system, effectively improve the overall perception ability of the line, and improve the safety and reliability of power supply.



Functions

Functions		Settings
Electrical protection	Overload protection	
	Short circuit protection	
	Residual current protection	30mA,100mA,300mA
	Phase failure protection	
	Over-voltage protection	275 V
	Under-voltage protection	160 V
	Over temperature protection	80 °C (default)
	Over power protection	
	Arc fault protection	Optional function
Detection and measurement	Independant protection	Loss of electronic protection function, does not affects the basic mechanical protection function
	Voltage	
	Current	
	Power	
	Power consumption measurement	
Communication	RS485 (MODBUS)	Standard configuration
Other function	Temperature monitoring	Terminal temperature

LED light

Solid green	Normal working
Solid red	Fault
Blink red	Alarm

Smart Residual Current Circuit Breaker with Overcurrent Protection iRB600E

Technical specifications

Basic data		iRB615E	iRB616E
Number of poles		1P+N	3P+N
Standard		IEC 61009-1	
SASSIN APP		√	√
Tuya APP		-	-
Bluetooth voice control		-	-
Frame size	A	100	
Tripping characteristics		B characteristic (3-5) In	
		C characteristic (5-10) In	
		D characteristic (10-14) In	
Type (Wave form of the earth leakage sensed)		AC,A	
Rated current In	A	6,10,16,20,25,32,40,50,63,80,100	
Rated voltage Ue	V	230	400
Rated residual current IΔn	mA	30,100,300	
Rated frequency f	Hz	50	
Rated short circuit breaking capacity Icn	kA	10 (≤63A) , 6 (>63A)	
Rated insulation voltage Ui	V	500	
Rated impluse withstand voltage Uimp	kV	4	
Communication port		RS485	
Upgrade mode		RS485	
Electrical life (times)		10000	
Mechanical life (times)		20000	
Measurement accuracy			
Voltage		0.7Un≤U<1.3Un 0.5s ; 1.3Un≤U<1.8Un 0.2s	
Current		0.05In≤I<0.2In 0.5s ; 0.2In≤I<1.2In 0.2s	
Power		0.05In≤I<0.1In class1 ; 0.1In≤I<1.2In class0.5	
Power consumption		0.05In≤I<0.1In class1 ; 0.1In≤I<1.2In class0.5	
Protection parameter			
Over termperature action	℃	80	
Over-voltage action	V	275	
Under-voltage action	V	165	
Short circuit protection		–	
Working and installation conditions			
Altitude	m	m≤2000	
Ambient temperature	℃	−5 … +40	
Environmental		No explosion danger, no conductive dust, no corrosion of metal and damage to insulation, no significant shock and impact	
Relative humidity		50% at +40 °C. Higher relative humidity is available at lower temperatures	
Storage temperature	℃	−40 … +80	
Pollution level		II	

Trip characteristics

Thermal release

Tripping characteristics	Test current	Initial condition	Limit of tripping or non-tripping time	Result to be obtained
B,C,D	1.13 In	Cold	≤1 h	No tripping
	1.45 In	Immediately following test 1.03 In	< 1 h	Tripping

Electromagnetic release

Tripping characteristics	Test current	Initial condition	Limit of tripping or non-tripping time	Result to be obtained
B	3 In	Cold	≤0.1s	No tripping
	5 In		< 0.1s	Tripping
C	5 In	Cold	≤0.1s	No tripping
	10 In		< 0.1s	Tripping
D	10 In	Cold	≤0.1s	No tripping
	14 In		< 0.1s	Tripping

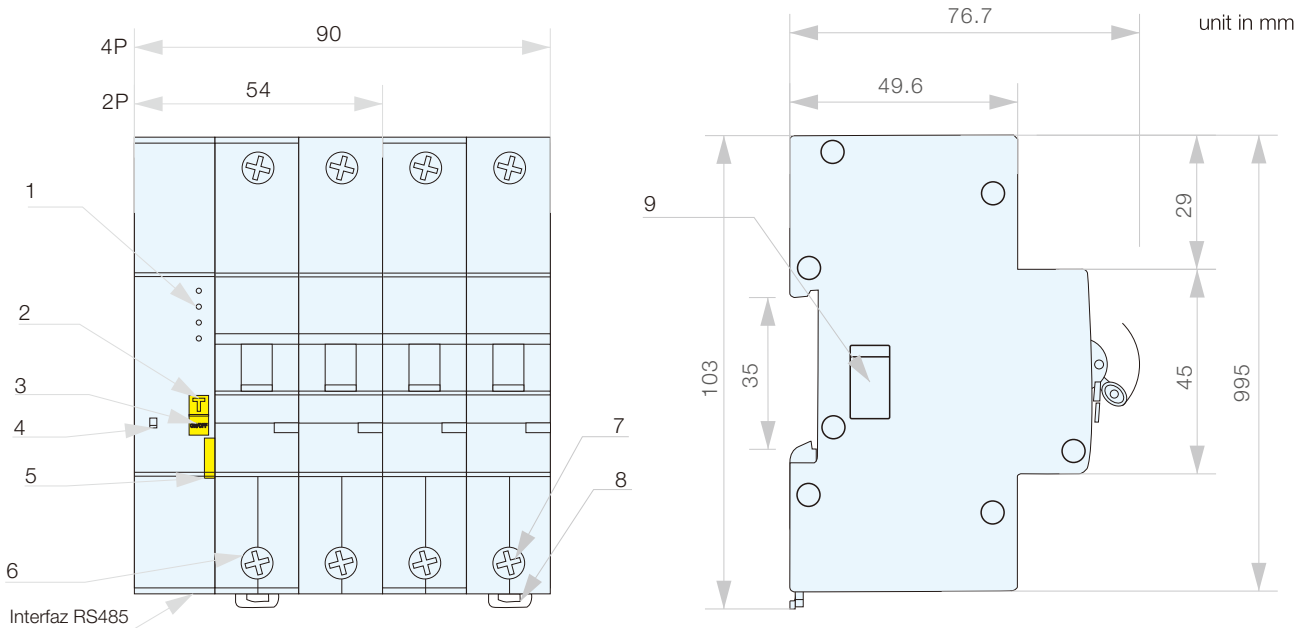
Smart Residual Current Circuit Breaker with Overcurrent Protection iRB600E

Model selection

Number of poles	Width mm	Rated residual current mA	Rated current In A	Type code		
				Characteristic B	Characteristic C	Characteristic D
1P+N	54	30	6	iRB615E-B06-30	iRB615E-C06-30	iRB615E-D06-30
			10	iRB615E-B10-30	iRB615E-C10-30	iRB615E-D10-30
			16	iRB615E-B16-30	iRB615E-C16-30	iRB615E-D16-30
			20	iRB615E-B20-30	iRB615E-C20-30	iRB615E-D20-30
			25	iRB615E-B25-30	iRB615E-C25-30	iRB615E-D25-30
			32	iRB615E-B32-30	iRB615E-C32-30	iRB615E-D32-30
			40	iRB615E-B40-30	iRB615E-C40-30	iRB615E-D40-30
			50	iRB615E-B50-30	iRB615E-C50-30	iRB615E-D50-30
			63	iRB615E-B63-30	iRB615E-C63-30	iRB615E-D63-30
			80	iRB615E-B80-30	iRB615E-C80-30	iRB615E-D80-30
			100	iRB615E-B100-30	iRB615E-C100-30	iRB615E-D100-30
1P+N	54	100	6	iRB615E-B06-100	iRB615E-C06-100	iRB615E-D06-100
			10	iRB615E-B10-100	iRB615E-C10-100	iRB615E-D10-100
			16	iRB615E-B16-100	iRB615E-C16-100	iRB615E-D16-100
			20	iRB615E-B20-100	iRB615E-C20-100	iRB615E-D20-100
			25	iRB615E-B25-100	iRB615E-C25-100	iRB615E-D25-100
			32	iRB615E-B32-100	iRB615E-C32-100	iRB615E-D32-100
			40	iRB615E-B40-100	iRB615E-C40-100	iRB615E-D40-100
			50	iRB615E-B50-100	iRB615E-C50-100	iRB615E-D50-100
			63	iRB615E-B63-100	iRB615E-C63-100	iRB615E-D63-100
			80	iRB615E-B80-100	iRB615E-C80-100	iRB615E-D80-100
			100	iRB615E-B100-100	iRB615E-C100-100	iRB615E-D100-100
1P+N	54	300	6	iRB615E-B06-300	iRB615E-C06-300	iRB615E-D06-300
			10	iRB615E-B10-300	iRB615E-C10-300	iRB615E-D10-300
			16	iRB615E-B16-300	iRB615E-C16-300	iRB615E-D16-300
			20	iRB615E-B20-300	iRB615E-C20-300	iRB615E-D20-300
			25	iRB615E-B25-300	iRB615E-C25-300	iRB615E-D25-300
			32	iRB615E-B32-300	iRB615E-C32-300	iRB615E-D32-300
			40	iRB615E-B40-300	iRB615E-C40-300	iRB615E-D40-300
			50	iRB615E-B50-300	iRB615E-C50-300	iRB615E-D50-300
			63	iRB615E-B63-300	iRB615E-C63-300	iRB615E-D63-300
			80	iRB615E-B80-300	iRB615E-C80-300	iRB615E-D80-300
			100	iRB615E-B100-300	iRB615E-C100-300	iRB615E-D100-300
3P+N	54	30	6	iRB616E-B06-30	iRB616E-C06-30	iRB616E-D06-30
			10	iRB616E-B10-30	iRB616E-C10-30	iRB616E-D10-30
			16	iRB616E-B16-30	iRB616E-C16-30	iRB616E-D16-30
			20	iRB616E-B20-30	iRB616E-C20-30	iRB616E-D20-30
			25	iRB616E-B25-30	iRB616E-C25-30	iRB616E-D25-30
			32	iRB616E-B32-30	iRB616E-C32-30	iRB616E-D32-30
			40	iRB616E-B40-30	iRB616E-C40-30	iRB616E-D40-30
			50	iRB616E-B50-30	iRB616E-C50-30	iRB616E-D50-30
			63	iRB616E-B63-30	iRB616E-C63-30	iRB616E-D63-30
			80	iRB616E-B80-30	iRB616E-C80-30	iRB616E-D80-30
			100	iRB616E-B100-30	iRB616E-C100-30	iRB616E-D100-30
3P+N	54	100	6	iRB616E-B06-100	iRB616E-C06-100	iRB616E-D06-100
			10	iRB616E-B10-100	iRB616E-C10-100	iRB616E-D10-100
			16	iRB616E-B16-100	iRB616E-C16-100	iRB616E-D16-100
			20	iRB616E-B20-100	iRB616E-C20-100	iRB616E-D20-100
			25	iRB616E-B25-100	iRB616E-C25-100	iRB616E-D25-100
			32	iRB616E-B32-100	iRB616E-C32-100	iRB616E-D32-100
			40	iRB616E-B40-100	iRB616E-C40-100	iRB616E-D40-100
			50	iRB616E-B50-100	iRB616E-C50-100	iRB616E-D50-100
			63	iRB616E-B63-100	iRB616E-C63-100	iRB616E-D63-100
			80	iRB616E-B80-100	iRB616E-C80-100	iRB616E-D80-100
			100	iRB616E-B100-100	iRB616E-C100-100	iRB616E-D100-100
3P+N	54	300	6	iRB616E-B06-300	iRB616E-C06-300	iRB616E-D06-300
			10	iRB616E-B10-300	iRB616E-C10-300	iRB616E-D10-300
			16	iRB616E-B16-300	iRB616E-C16-300	iRB616E-D16-300
			20	iRB616E-B20-300	iRB616E-C20-300	iRB616E-D20-300
			25	iRB616E-B25-300	iRB616E-C25-300	iRB616E-D25-300
			32	iRB616E-B32-300	iRB616E-C32-300	iRB616E-D32-300
			40	iRB616E-B40-300	iRB616E-C40-300	iRB616E-D40-300
			50	iRB616E-B50-300	iRB616E-C50-300	iRB616E-D50-300
			63	iRB616E-B63-300	iRB616E-C63-300	iRB616E-D63-300
			80	iRB616E-B80-300	iRB616E-C80-300	iRB616E-D80-300
			100	iRB616E-B100-300	iRB616E-C100-300	iRB616E-D100-300

Smart Residual Current Circuit Breaker with Overcurrent Protection iRB600E

Outline and installation dimensions



Smart Residual Current Circuit Breaker with Overcurrent Protection iRBU600E

Application

iRBU600E series of smart residual current circuit breaker with overcurrent protection are suitable for AC 50/60Hz, rated voltage AC 230/400V, rated current up to 100A low-voltage power grid. It integrates comprehensive protection, high-precision measurement, control, and communicaiton functions. It has RS485 communication mode. it can upload real-time data, operating status, line faults, alarms and other information to the electrical safety IoT supervision. The platform can realize data monitoring, hidden danger management, energy consumption management and power consumption optimization improvement of power distribution system, effectively improve the overall perception ability of the line, andvimprove the safety and reliability of power supply



Functions

Functions		Settings
Electrical protection	Overload protection	
	Short circuit protection	
	Residual current protection	
	Phase failure protection	48V:56VDC; 250V:300VDC
	Over-voltage protection	48V:30VDC; 250V:180VDC
	Under-voltage protection	80 °C (default)
	Over temperature protection	
	Over power protection	
	Arc fault protection	
Detection and measurement	Independant protection	
	Voltage	
	Current	
	Power	
	Power consumption measurement	
Communication	RS485 (MODBUS)	Standard configuration
Other function	Temperature monitoring	Terminal temperature

LED light

Solid green	Normal working
Solid red	Fault
Blink red	Alarm

Smart Residual Current Circuit Breaker with Overcurrent Protection iRBU600E

Technical specifications

Basic data		iRBU615	iRBU616
SASSIN APP		√	√
Tuya APP		-	-
Bluetooth voice control		-	-
Number of poles		1P+N	3P+N
Standard		IEC 61009-1	
Frame size	A	100	
Tripping characteristics		B characteristic (3-5) In	
		C characteristic (5-10) In	
		D characteristic (10-14) In	
Type (Wave form of the earth leakage sensed)		AC,A	
Rated current In	A	6,10,16,20,25,32,40,50,63,80,100	
Rated voltage Ue	V	230	400
Rated residual current IΔn	mA	30,100,300	
Rated frequency f	Hz	50	
Rated short circuit breaking capacity Icn	kA	10 (≤63A) , 6 (>63A)	
Rated insulation voltage Ui	V	500	
Rated impluse withstand voltage Uimp	kV	4	
Communication port		RS485	
Upgrade mode		RS485	
Electrical life (times)		10000	
Mechanical life (times)		20000	
Measurement accuracy			
Voltage		0.7Un≤U<1.3Un 0.5s ; 1.3Un≤U<1.8Un 0.2s	
Current		0.05In≤I<0.2In 0.5s ; 0.2In≤I<1.2In 0.2s	
Power		0.05In≤I<0.1In class1 ; 0.1In≤I<1.2In class0.5	
Power consumption		0.05In≤I<0.1In class1 ; 0.1In≤I<1.2In class0.5	
Protection parameter			
Over termperature action	℃	80	
Over-voltage action	V	275	
Under-voltage action	V	165	
Short circuit protection		–	
Gateway			
Rated voltage Ue		230	
Uplink communication		LAN,WIFI,4G	
Downlink communication		RS485S	
Max. WIFI communication rate		20 MHz brandwidth 72.2Mbps;40 MHz brandwidth 150Mbps	
Max. 4G communication rate		uplink 50Mbps;downlink 150Mbps	
Max. LAN communication rate		10/100Mbps , self-adaptation	
Drive capacity		32 pieces	
Working and installation conditions			
Altitude	m	m≤2000	
Ambient temperature	℃	−5 … +40	
Environmental		No explosion danger, no conductive dust, no corrosion of metal and damage to insulation, no significant shock and impact	
Relative humidity		50% at +40 °C. Higher relative humidity is available at lower temperatures	
Storage temperature	℃	−40 … +80	
Pollution level		II	

Trip characteristics

Thermal release

Tripping characteristics	Test current	Initial condition	Limit of tripping or non-tripping time	Result to be obtained
B,C,D	1.13 In	Cold	≤1 h	No tripping
	1.45 In	Immediately following test 1.03 In	< 1 h	Tripping

Electromagnetic release

Tripping characteristics	Test current	Initial condition	Limit of tripping or non-tripping time	Result to be obtained
B	3 In	Cold	≤0.1s	No tripping
	5 In		< 0.1s	Tripping
C	5 In	Cold	≤0.1s	No tripping
	10 In		< 0.1s	Tripping
D	10 In	Cold	≤0.1s	No tripping
	14 In		< 0.1s	Tripping

Smart Residual Current Circuit Breaker with Overcurrent Protection iRBU600E

Model selection

Number of poles	Width mm	Rated residual current mA	Rated current In A	Type code		
				Characteristic B	Characteristic C	Characteristic D
1P+N	72	30	6	iRBU615E-B06-30	iRBU615E-C06-30	iRBU615E-D06-30
			10	iRBU615E-B10-30	iRBU615E-C10-30	iRBU615E-D10-30
			16	iRBU615E-B16-30	iRBU615E-C16-30	iRBU615E-D16-30
			20	iRBU615E-B20-30	iRBU615E-C20-30	iRBU615E-D20-30
			25	iRBU615E-B25-30	iRBU615E-C25-30	iRBU615E-D25-30
			32	iRBU615E-B32-30	iRBU615E-C32-30	iRBU615E-D32-30
			40	iRBU615E-B40-30	iRBU615E-C40-30	iRBU615E-D40-30
			50	iRBU615E-B50-30	iRBU615E-C50-30	iRBU615E-D50-30
			63	iRBU615E-B63-30	iRBU615E-C63-30	iRBU615E-D63-30
			80	iRBU615E-B80-30	iRBU615E-C80-30	iRBU615E-D80-30
			100	iRBU615E-B100-30	iRBU615E-C100-30	iRBU615E-D100-30
1P+N	72	100	6	iRBU615E-B06-100	iRBU615E-C06-100	iRBU615E-D06-100
			10	iRBU615E-B10-100	iRBU615E-C10-100	iRBU615E-D10-100
			16	iRBU615E-B16-100	iRBU615E-C16-100	iRBU615E-D16-100
			20	iRBU615E-B20-100	iRBU615E-C20-100	iRBU615E-D20-100
			25	iRBU615E-B25-100	iRBU615E-C25-100	iRBU615E-D25-100
			32	iRBU615E-B32-100	iRBU615E-C32-100	iRBU615E-D32-100
			40	iRBU615E-B40-100	iRBU615E-C40-100	iRBU615E-D40-100
			50	iRBU615E-B50-100	iRBU615E-C50-100	iRBU615E-D50-100
			63	iRBU615E-B63-100	iRBU615E-C63-100	iRBU615E-D63-100
			80	iRBU615E-B80-100	iRBU615E-C80-100	iRBU615E-D80-100
			100	iRBU615E-B100-100	iRBU615E-C100-100	iRBU615E-D100-100
1P+N	72	300	6	iRBU615E-B06-300	iRBU615E-C06-300	iRBU615E-D06-300
			10	iRBU615E-B10-300	iRBU615E-C10-300	iRBU615E-D10-300
			16	iRBU615E-B16-300	iRBU615E-C16-300	iRBU615E-D16-300
			20	iRBU615E-B20-300	iRBU615E-C20-300	iRBU615E-D20-300
			25	iRBU615E-B25-300	iRBU615E-C25-300	iRBU615E-D25-300
			32	iRBU615E-B32-300	iRBU615E-C32-300	iRBU615E-D32-300
			40	iRBU615E-B40-300	iRBU615E-C40-300	iRBU615E-D40-300
			50	iRBU615E-B50-300	iRBU615E-C50-300	iRBU615E-D50-300
			63	iRBU615E-B63-300	iRBU615E-C63-300	iRBU615E-D63-300
			80	iRBU615E-B80-300	iRBU615E-C80-300	iRBU615E-D80-300
			100	iRBU615E-B100-300	iRBU615E-C100-300	iRBU615E-D100-300
3P+N	108	30	6	iRBU616E-B06-30	iRBU616E-C06-30	iRBU616E-D06-30
			10	iRBU616E-B10-30	iRBU616E-C10-30	iRBU616E-D10-30
			16	iRBU616E-B16-30	iRBU616E-C16-30	iRBU616E-D16-30
			20	iRBU616E-B20-30	iRBU616E-C20-30	iRBU616E-D20-30
			25	iRBU616E-B25-30	iRBU616E-C25-30	iRBU616E-D25-30
			32	iRBU616E-B32-30	iRBU616E-C32-30	iRBU616E-D32-30
			40	iRBU616E-B40-30	iRBU616E-C40-30	iRBU616E-D40-30
			50	iRBU616E-B50-30	iRBU616E-C50-30	iRBU616E-D50-30
			63	iRBU616E-B63-30	iRBU616E-C63-30	iRBU616E-D63-30
			80	iRBU616E-B80-30	iRBU616E-C80-30	iRBU616E-D80-30
			100	iRBU616E-B100-30	iRBU616E-C100-30	iRBU616E-D100-30
3P+N	108	100	6	iRBU616E-B06-100	iRBU616E-C06-100	iRBU616E-D06-100
			10	iRBU616E-B10-100	iRBU616E-C10-100	iRBU616E-D10-100
			16	iRBU616E-B16-100	iRBU616E-C16-100	iRBU616E-D16-100
			20	iRBU616E-B20-100	iRBU616E-C20-100	iRBU616E-D20-100
			25	iRBU616E-B25-100	iRBU616E-C25-100	iRBU616E-D25-100
			32	iRBU616E-B32-100	iRBU616E-C32-100	iRBU616E-D32-100
			40	iRBU616E-B40-100	iRBU616E-C40-100	iRBU616E-D40-100
			50	iRBU616E-B50-100	iRBU616E-C50-100	iRBU616E-D50-100
			63	iRBU616E-B63-100	iRBU616E-C63-100	iRBU616E-D63-100
			80	iRBU616E-B80-100	iRBU616E-C80-100	iRBU616E-D80-100
			100	iRBU616E-B100-100	iRBU616E-C100-100	iRBU616E-D100-100
3P+N	108	300	6	iRBU616E-B06-300	iRBU616E-C06-300	iRBU616E-D06-300
			10	iRBU616E-B10-300	iRBU616E-C10-300	iRBU616E-D10-300
			16	iRBU616E-B16-300	iRBU616E-C16-300	iRBU616E-D16-300
			20	iRBU616E-B20-300	iRBU616E-C20-300	iRBU616E-D20-300
			25	iRBU616E-B25-300	iRBU616E-C25-300	iRBU616E-D25-300
			32	iRBU616E-B32-300	iRBU616E-C32-300	iRBU616E-D32-300
			40	iRBU616E-B40-300	iRBU616E-C40-300	iRBU616E-D40-300
			50	iRBU616E-B50-300	iRBU616E-C50-300	iRBU616E-D50-300
			63	iRBU616E-B63-300	iRBU616E-C63-300	iRBU616E-D63-300
			80	iRBU616E-B80-300	iRBU616E-C80-300	iRBU616E-D80-300
			100	iRBU616E-B100-300	iRBU616E-C100-300	iRBU616E-D100-300

Overview

iGW60 series smart gateway is used together with smart electric devices to provide two-way internet communication and ensure the possibilities to remotely control the smart electric devices or make adjustment on available parameters.
Available communication versions:

- 4G
- Wireless Wi-Fi

Available APP versions:

- TUYA



Standard

CQC 1308-2017: Technical specification on intelligent power unit

Application

Smart gateway is used together with smart electric devices to collect and read the data of a number of parameters such as voltage, current, power, electricity on the software, and make partial metering and analysis for each circuit, thus achieve the purpose of monitoring power consumption, predict electrical failure, diagnose online, real-time alarm and remote breaking.

Structure

The smart gateway is made up of a plastic shell and communication circuit board. The shell is made by high flame-retardant and high strength plastic which can ensure the strong impact resistance and light weight, and has similar appearance with MCBs 3SB6. Communication circuit board adopts low power consumption design and asynchronous serial port RS485 communication mode, can drive up to 32 smart switches. It can be conveniently mounted on a standard 35 mm DIN-rail.

Technical specifications

TUYA version 4G mode

Rated voltage		V AC	12	
Rated frequency		Hz	50	
Uplink communication			4G	
Downlink communication			RS485	
Max. communication rate	Uplink	Mbps	50	
	Downlink	Mbps	150	
Standard			Supporting kinds of network systems: GSM/GPRS/EDGE/CDMA1xd/EVDO/WCDMA/TD-SCDMA/TDD/FDD/FDD-LTE	
Frequency band	2G		CDMA: BC0	
	3G		UMTS: B1/88	
			CDMA EVDO: BC0 TD-SCDMA: B34/B39	
	4G		LTE-TDD: B38/B39/B40/B41 LTE-FDD: B1/B3/B5/B8	
Communication width		MB	20	
Transmission power			DL	UL
	CDMA	Mbps	3.1	1.8
	WCDMA, DC-HSPA+	Mbps	42	5.76
	TD-SCDMA	Mbps	4.2	2.2
	LTE FDD, non-CA cat4	Mbps	150	50
	LTE TDD, non-CA cat4	Mbps	130	35
Drive capacity		Piece	32	

TUYA version Wi-Fi mode

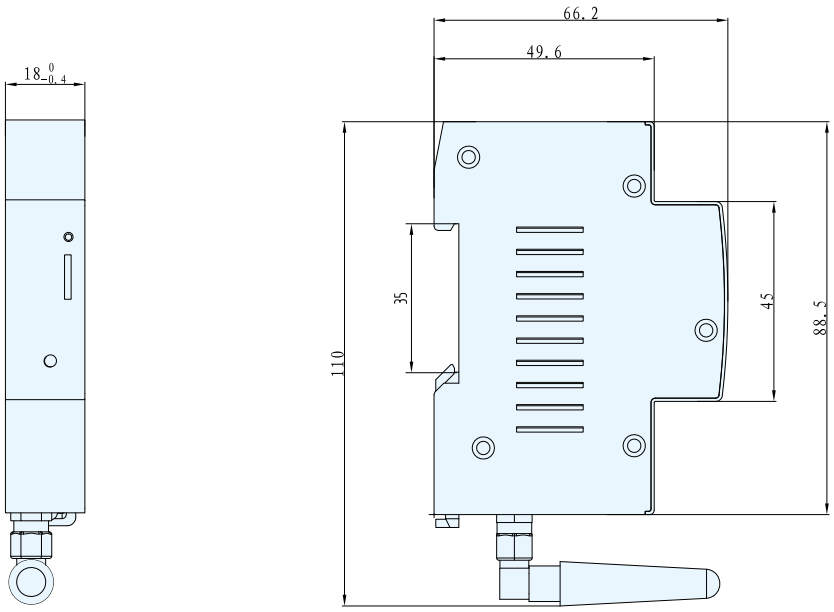
Rated voltage		V AC	12
Rated frequency		Hz	50
Uplink communication			Wi-Fi
Downlink communication			RS485
Max. communication rate	20 MHz bandwidth	Mbps	72.23
	40 MHz bandwidth	Mbps	150
Wi-Fi characteristics			802.11b/g/n standard HT-40 Station or SoftAP mode is been supported
Drive capacity		Piece	32

Selection and ordering data

Description	Type code
TUYA version Wi-Fi&4G mode	iGW61

Outline and installation dimension

unit in mm



Overview

iGW70 series smart gateway is used together with smart electric devices to provide two-way internet communication and ensure the possibilities to remotely control the smart electric devices or make adjustment on available parameters.
Available versions:

- 4G
- Wireless Wi-Fi
- Wired Ethernet (LAN)



Standard

CQC 1308-2017: Technical specification on intelligent power unit

Application

Smart gateway is used together with smart electric devices to collect and read the data of a number of parameters such as voltage, current, power, electricity on the software, and make partial metering and analysis for each circuit, thus achieve the purpose of monitoring power consumption, predict electrical failure, diagnose online, real-time alarm and remote breaking.

Structure

The smart gateway is made up of a plastic shell and communication circuit board. The shell is made by high flame-retardant and high strength plastic which can ensure the strong impact resistance and light weight, and has similar appearance with MCBs 3SB71-63. Communication circuit board adopts low power consumption design and asynchronous serial port RS485 communication mode, can drive up to 32 smart switches. It can be conveniently mounted on a standard 35 mm DIN-rail.

Technical specifications

4G version

Rated voltage		V AC	230	
Rated frequency		Hz	50	
Uplink communication			4G	
Downlink communication			RS485	
Max. communication rate	Uplink	Mbps	50	
	Downlink	Mbps	150	
Standard			Supporting kinds of network systems: GSM/GPRS/EDGE/CDMA1xd/EVDO/WCDMA/TD-SCDMA/TDD/FDD/FDD-LTE	
Frequency band	2G		CDMA: BC0	
	3G		UMTS: B1/88	
			CDMA EVDO: BC0 TD-SCDMA: B34/B39	
	4G		LTE-TDD: B38/B39/B40/B41 LTE-FDD: B1/B3/B5/B8	
Communication width		MB	20	
Transmission power			DL	UL
	CDMA	Mbps	3.1	1.8
	WCDMA, DC-HSPA+	Mbps	42	5.76
	TD-SCDMA	Mbps	4.2	2.2
	LTE FDD, non-CA cat4	Mbps	150	50
	LTE TDD, non-CA cat4	Mbps	130	35
Drive capacity		Piece	32	

Wi-Fi version

Rated voltage		V AC	230
Rated frequency		Hz	50
Uplink communication			Wi-Fi
Downlink communication			RS485
Max. communication rate	20 MHz bandwidth	Mbps	72.23
	40 MHz bandwidth	Mbps	150
Wi-Fi characteristics			802.11b/g/n standard HT-40 Station or SoftAP mode is been supported
Drive capacity		Piece	32

Technical specifications

Ethernet (LAN) version

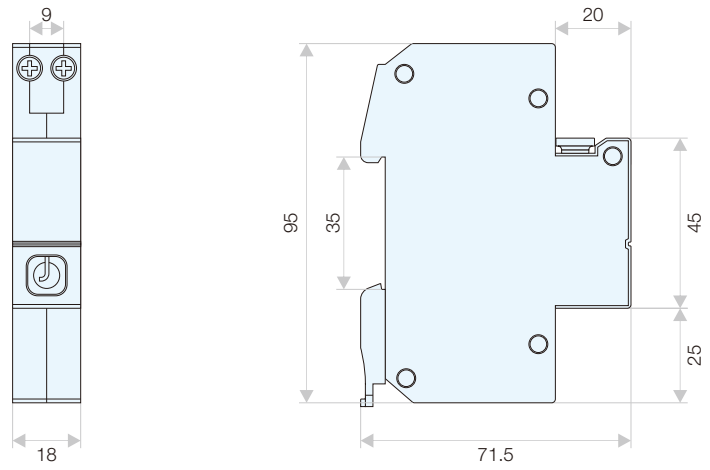
Rated voltage	V AC	230
Rated frequency	Hz	50
Uplink communication		LAN
Downlink communication		RS485
Max. communication rate	Mbps	10/100, self-adaptation
Connection		8 pins RJ45
Electromagnetic isolation protection	kV	1.5
Drive capacity	Piece	32

Selection and ordering data

	Description	Type code	Order code
	Wi-Fi version	iGW71	**37185**
	Ethernet (LAN) version	iGW71E	**37186**
	4G version (Internal antenna)	iGW71L	**37187**
	4G version (External extension antenna)	iGW71LX	**37188**
	4G version (Internal antenna) for MCCB	iGW72L	**37191**

Outline and installation dimensions

unit in mm



Series iRB7

Better Electric
Better Life SASSIN

Features

- TUYA app control platforms
- Remote control without distance limitations and local operation
- Customization of protection thresholds
- Automatic reclosing and customizable reclosing time configuration





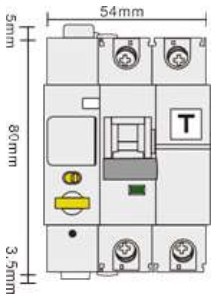
Technical specifications

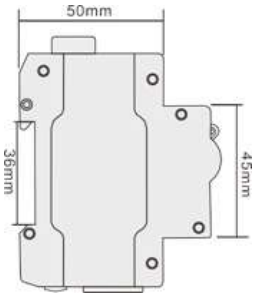
Standard	EN 61009-1;2012
Poles	1P+N, 3P+N
Mounting poles	3P,5P
Rated currents	6A,10A,16A,25A,32A,40A,50A,63A
Rated working voltage and frequency	230VAC (1P+N) 400VAC (3P+N) 50/60Hz
Breaking capacity	6KA
Type	A, AC
Standby power consumption	<3W
Communication	Tuya WIFI, Tuya , ZIGBEE
Tripping time	≤0.1S
Short circuit time	≤0.04S
Control mode	Integrated manual and automatic control
Installation requirements	⩽2000m
Temperature requirements	-20°C～ +70°C
Degree of protection	IP20
Functions	Overload, overcurrent, Over-voltage protection Leakage protection Reclosing

Product wiring and dimensional diagram

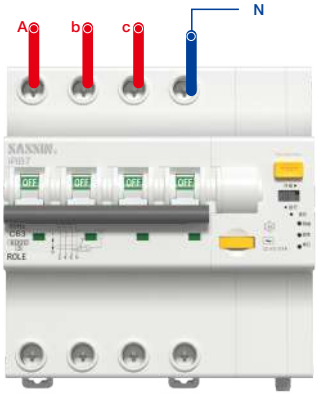
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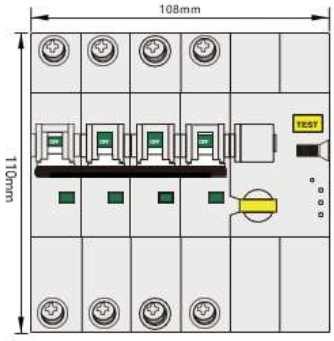


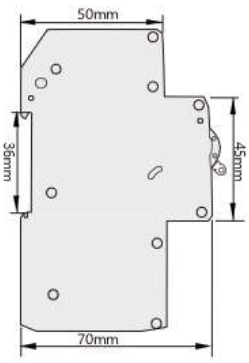




unit:mm







Selection and ordering data

Number of poles	width mm	Rated residual current mA	Rated current In A	Type AC (with metering function) Type code	Type AC (without metering function) Type code	Type A (with metering function) Type code	Type A (with metering function) Type code
1P+N	54	30	6	iRB7 2P30C6M	iRB7 2P30C6	iRB7 2P30A6M	iRB7 2P30A6
			10	iRB7 2P30C10M	iRB7 2P30C10	iRB7 2P30A10M	iRB7 2P30A10
			16	iRB7 2P30C16M	iRB7 2P30C16	iRB7 2P30A16M	iRB7 2P30A16
			20	iRB7 2P30C20M	iRB7 2P30C20	iRB7 2P30A20M	iRB7 2P30A20
			25	iRB7 2P30C25M	iRB7 2P30C25	iRB7 2P30A25M	iRB7 2P30A25
			32	iRB7 2P30C32M	iRB7 2P30C32	iRB7 2P30A32M	iRB7 2P30A32
			40	iRB7 2P30C40M	iRB7 2P30C40	iRB7 2P30A40M	iRB7 2P30A40
			50	iRB7 2P30C50M	iRB7 2P30C50	iRB7 2P30A50M	iRB7 2P30A50
			63	iRB7 2P30C63M	iRB7 2P30C63	iRB7 2P30A63M	iRB7 2P30A63
		300	6	iRB7 2P300C6M	iRB7 2P300C6	iRB7 2P300A6M	iRB7 2P300A6
			10	iRB7 2P300C10M	iRB7 2P300C10	iRB7 2P300A10M	iRB7 2P300A10
			16	iRB7 2P300C16M	iRB7 2P300C16	iRB7 2P300A16M	iRB7 2P300A16
			20	iRB7 2P300C20M	iRB7 2P300C20	iRB7 2P300A20M	iRB7 2P300A20
			25	iRB7 2P300C25M	iRB7 2P300C25	iRB7 2P300A25M	iRB7 2P300A25
			32	iRB7 2P300C32M	iRB7 2P300C32	iRB7 2P300A32M	iRB7 2P300A32
			40	iRB7 2P300C40M	iRB7 2P300C40	iRB7 2P300A40M	iRB7 2P300A40
			50	iRB7 2P300C50M	iRB7 2P300C50	iRB7 2P300A50M	iRB7 2P300A50
			63	iRB7 2P300C63M	iRB7 2P300C63	iRB7 2P300A63M	iRB7 2P300A63
3P+N	90	30	6	iRB7 4P30C6M		iRB7 4P30A6M	
			10	iRB7 4P30C10M		iRB7 4P30A10M	
			16	iRB7 4P30C16M		iRB7 4P30A16M	
			20	iRB7 4P30C20M		iRB7 4P30A20M	
			25	iRB7 4P30C25M		iRB7 4P30A25M	
			32	iRB7 4P30C32M		iRB7 4P30A32M	
			40	iRB7 4P30C40M		iRB7 4P30A40M	
			50	iRB7 4P30C50M		iRB7 4P30A50M	
			63	iRB7 4P30C63M		iRB7 4P30A63M	
		300	6	iRB7 4P300C6M		iRB7 4P300A6M	
			10	iRB7 4P300C10M		iRB7 4P300A10M	
			16	iRB7 4P300C16M		iRB7 4P300A16M	
			20	iRB7 4P300C20M		iRB7 4P300A20M	
			25	iRB7 4P300C25M		iRB7 4P300A25M	
			32	iRB7 4P300C32M		iRB7 4P300A32M	
			40	iRB7 4P300C40M		iRB7 4P300A40M	
			50	iRB7 4P300C50M		iRB7 4P300A50M	
			63	iRB7 4P300C63M		iRB7 4P300A63M	

Features

- TUYA app control platforms
- Remote control without distance limitations and local operation
- Customization of protection thresholds
- Automatic reclosing and customizable reclosing time configuration

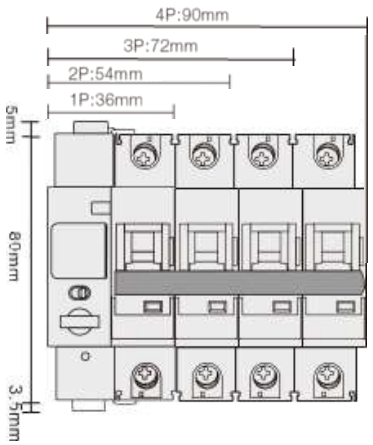


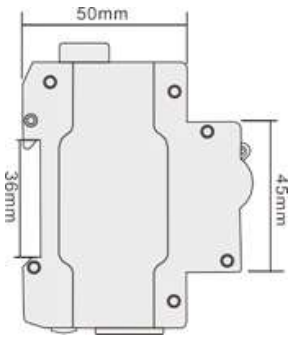
Technical specifications

Standard	EN 60898-1: 2019
Poles	1P, 2P, 3P, 4P
Mounting poles	2P, 3P, 4P, 5P
Rated currents	230VAC (1P) 400VAC (2P, 3P, 4P)
Rated working voltage and frequency	50/60Hz
Breaking capacity	6KA
Type	Curve C, D
Standby power consumption	<3W
Communication	Tuya, WIFI, Tuya, ZIGBEE
Tripping time	≤0.1S
Short circuit time	≤0.04S
Control mode	Integrated manual and automatic control
Installation requirements	⩽2000m
Temperature requirements	-20°C～ +70°C
Degree of protection	IP20
Functions	Overload, Overcurrent, Over-voltage protection Leakage protection Reclosing

Product wiring and dimensional diagram

unit:mm





Selection and ordering data

Number of poles	width mm	Rated current In A	Curve C (with metering function) Type code	Curve D (with metering function) Type code	Curve C (without metering function) Type code	Curve D (without metering function) Type code
1P	36	6	iB7 1PC6M	iB7 1PD6M	iB7 1PC6	iB7 1PD6
		10	iB7 1PC10M	iB7 1PD10M	iB7 1PC10	iB7 1PD10
		16	iB7 1PC16M	iB7 1PD16M	iB7 1PC16	iB7 1PD16
		20	iB7 1PC20M	iB7 1PD20M	iB7 1PC20	iB7 1PD20
		25	iB7 1PC25M	iB7 1PD25M	iB7 1PC25	iB7 1PD25
		32	iB7 1PC32M	iB7 1PD32M	iB7 1PC32	iB7 1PD32
		40	iB7 1PC40M	iB7 1PD40M	iB7 1PC40	iB7 1PD40
		50	iB7 1PC50M	iB7 1PD50M	iB7 1PC50	iB7 1PD50
		63	iB7 1PC63M	iB7 1PD63M	iB7 1PC63	iB7 1PD63
2P	54	6	iB7 2PC6M	iB7 2PD6M	iB7 2PC6	iB7 2PD6
		10	iB7 2PC10M	iB7 2PD10M	iB7 2PC10	iB7 2PD10
		16	iB7 2PC16M	iB7 2PD16M	iB7 2PC16	iB7 2PD16
		20	iB7 2PC20M	iB7 2PD20M	iB7 2PC20	iB7 2PD20
		25	iB7 2PC25M	iB7 2PD25M	iB7 2PC25	iB7 2PD25
		32	iB7 2PC32M	iB7 2PD32M	iB7 2PC32	iB7 2PD32
		40	iB7 2PC40M	iB7 2PD40M	iB7 2PC40	iB7 2PD40
		50	iB7 2PC50M	iB7 2PD50M	iB7 2PC50	iB7 2PD50
		63	iB7 2PC63M	iB7 2PD63M	iB7 2PC63	iB7 2PD63
3P	72	6	iB7 3PC6M	iB7 3PD6M	iB7 3PC6	iB7 3PD6
		10	iB7 3PC10M	iB7 3PD10M	iB7 3PC10	iB7 3PD10
		16	iB7 3PC16M	iB7 3PD16M	iB7 3PC16	iB7 3PD16
		20	iB7 3PC20M	iB7 3PD20M	iB7 3PC20	iB7 3PD20
		25	iB7 3PC25M	iB7 3PD25M	iB7 3PC25	iB7 3PD25
		32	iB7 3PC32M	iB7 3PD32M	iB7 3PC32	iB7 3PD32
		40	iB7 3PC40M	iB7 3PD40M	iB7 3PC40	iB7 3PD40
		50	iB7 3PC50M	iB7 3PD50M	iB7 3PC50	iB7 3PD50
		63	iB7 3PC63M	iB7 3PD63M	iB7 3PC63	iB7 3PD63
4P	90	6	iB7 4PC6M	iB7 4PD6M	iB7 4PC6	iB7 4PD6
		10	iB7 4PC10M	iB7 4PD10M	iB7 4PC10	iB7 4PD10
		16	iB7 4PC16M	iB7 4PD16M	iB7 4PC16	iB7 4PD16
		20	iB7 4PC20M	iB7 4PD20M	iB7 4PC20	iB7 4PD20
		25	iB7 4PC25M	iB7 4PD25M	iB7 4PC25	iB7 4PD25
		32	iB7 4PC32M	iB7 4PD32M	iB7 4PC32	iB7 4PD32
		40	iB7 4PC40M	iB7 4PD40M	iB7 4PC40	iB7 4PD40
		50	iB7 4PC50M	iB7 4PD50M	iB7 4PC50	iB7 4PD50
		63	iB7 4PC63M	iB7 4PD63M	iB7 4PC63	iB7 4PD63

Series iVP7

Better Electric
Better Life SASSIN

Features

- TUYA app control platforms
- Remote control without distance limitations and local operation
- Customization of protection thresholds

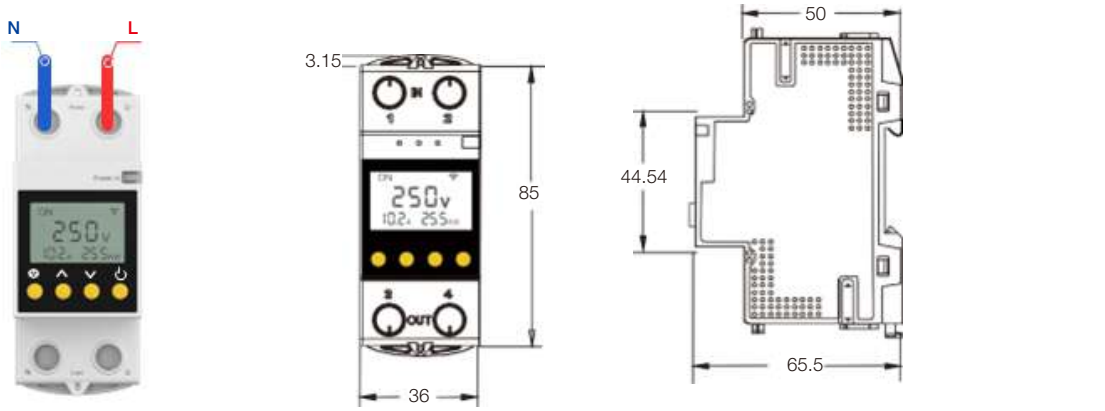


Technical specifications

Reference voltage	220V、230V
Specified operating voltage	90%Un~110%Un
Extended operating voltage	80%Un~115%Un
Current specification	6-63A
Frequency range	50/60Hz
Power consumption	Voltage circuit:≤1.5W
Communication	Tuya WIFI
Operating temperature	-20°C ~70°C
Operating humidity	≤95%
Degree of protection	IP20
Measurement Accuracy	Voltage and current accuracy: 1% Energy accuracy: 2%
Display	LCD, Digital
Voltage accuracy	Class 2.0(with energy metering function Class 1.0)
Current accuracy	Class 2.0(with energy metering function Class 1.0)
Active power accuracy	Class 2.0
Overvoltage protection	Protection switch: overvoltage value; recovery value; judgment and recovery time
Undervoltage protection	Protection switch: undervoltage value; recovery value; judgment and recovery time
Overcurrent protection	Protection switch: overcurrent value; judgment time
Overpower protection	Protection switch: over power value; judgment time

Product wiring and dimensional diagram

unit:mm



Selection and ordering data

Number of poles	width mm	Rated current In A	with metering function Type code
1P+N	36	6	iVP7 1N06M
		10	iVP7 1N10M
		16	iVP7 1N16M
		20	iVP7 1N20M
		25	iVP7 1N25M
		32	iVP7 1N32M
		40	iVP7 1N40M
		50	iVP7 1N50M
		63	iVP7 1N63M

Features

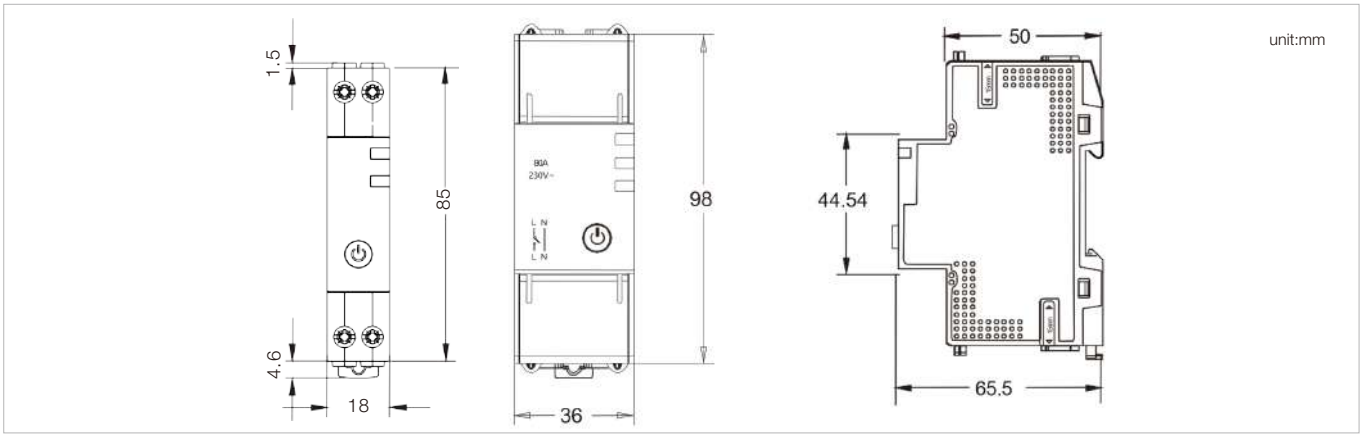
- TUYA app control platforms
- Remote control without distance limitations and local operation
- Customization of protection thresholds



Technical specifications

Reference voltage	230V
Specified operating voltage	90%Un~110%Un
Extended operating voltage	80%Un~115%Un
Current specification	6-40A (18mm); 6-63A (36mm)
Frequency range	50/60Hz
Power consumption	Voltage circuit:≤1.5W
Communication	Tuya WIFI
Operating temperature	-20°C ~70°C
Operating humidity	≤95%
Degreeof protection	IP20
Measurement Accuracy	Voltage: ±10V (GV) Voltage and current accuracy: 1% (4G) Energy accuracy: 2% (4G) Voltage and current accuracy: 2% (TW) Energy accuracy: 2% (TW)
Active power accuracy	Class 2.0
Overvoltage protection	Protection switch: overvoltage value;recovery value; judgment and recovery time
Undervoltage protection	Protection switch: undervoltage value; recovery value; judgment and recovery time
Overcurrent protection	Protection switch: overcurrent value; judgment time
Overpower protection	Protection switch: over power value; judgment time.

Product wiring and dimensional diagram



Selection and ordering data

Number of poles	width mm	Rated current In A	Curve C(with metering function) Type code
1P+N	18	6	iSS7 1MC6M
		10	iSS7 1MC10M
		16	iSS7 1MC16M
		20	iSS7 1MC20M
		25	iSS7 1MC25M
		32	iSS7 1MC32M
		40	iSS7 1MC40M
1P+N	36	6	iSS7 2MC6M
		10	iSS7 2MC10M
		16	iSS7 2MC16M
		20	iSS7 2MC20M
		25	iSS7 2MC25M
		32	iSS7 2MC32M
		40	iSS7 2MC40M
		50	iSS7 2MC50M
		63	iSS7 2MC63M

Overview

- Ensures the stability, safety, and reliability of the system by responding to abnormal conditions, Minimizing the impact of faults, and preventing damage to equipment.
- Quickly detects and responds to faults, reducing their impact on the power system.
- Widely use in outdoor and indoor system, such as railway road, public lights, telecommunication tower, water pump station, alarm system protection, supermarkets, industrial plants, data processing centers and so on.



Technical specification

- Rated voltage Un: 230VAC;48VDC,12VDC
- Rated frequency: 50/60Hz
- Power consumption: ⩽1.5VA
- Insulation voltage Ui:4000VAC
- Trip time: ＜0. 1s
- Trips:3 times
- Time delay:10,60,300s
- Reclosing time: ≤3s
- Electrical life: 10000 times
- Mechanical life: 20000 times
- Protection degree: IP20
- Tightening torque: 4N*m
- Mounting: Din rail (35mm)
- Communication: Remote auxiliary contacts NO&NC; RS485
- Working temperature: -25℃～55℃
- Humidity: 95%

Features

- Together with MCB,RCCB,RCBO, it can offer overload, short circuit and earth leakeage protection
- Remote reclosing and control of MCB,RCCB,RCBO through Tuya app with RS485 connection
- Padlocking to secure the circuit and assure the safety of people when maintainance
- Compact module with 18mm only
- Tuya/Smartlife APP

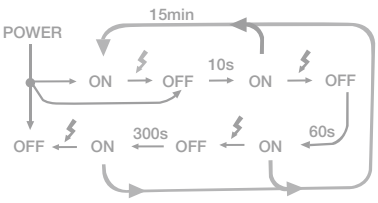
Selection and ordering data

iAR51+MCB (VB51)	Poles	Current (A)	Curve	Numbers of modules	Type code
	1P	6,10,16,20,25, 32,40,50,63	B,C,D	36mm	iAR51+VB511C06…C63
	1P+N			54mm	iAR51+VB515C06…C63
	2P			54mm	iAR51+VB512C06…C63
	3P			72mm	iAR51+VB513C06…C63
	3P+N			90mm	iAR51+VB516C06…C63
	4P			90mm	iAR51+VB514C06…C63

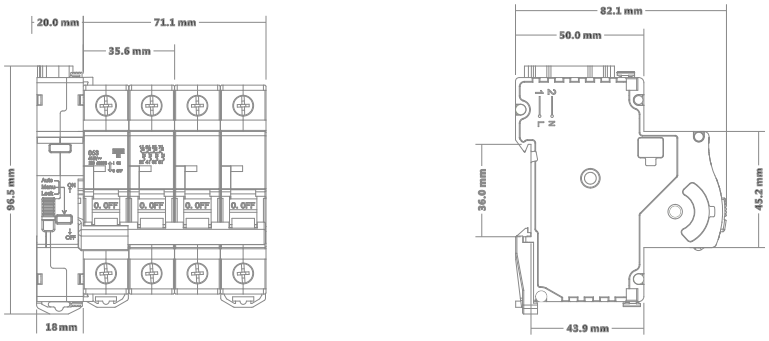
iAR51+RCCB (3SL18)	Poles	Current (A)	Curve	Residual current (mA)	Numbers of modules	Type code
	1P+N	25,40,63,80,100	AC	10,30,100,300	54mm	iAR51+L182C25030
			A		54mm	iAR51+L182A25030
	3P+N	25,40,63,80,100	AC	10,30,100,300	90mm	iAR51+L184C25030
			A		90mm	iAR51+L184A25030

iAR51+RCBO(VRB615E)	Poles	Current (A)	Type	Residual current (mA)	Numbers of modules	Type code
	1P+N	6,10,16,20,25,32, 40,50,63	AC	30,100,300	54mm	iAR51+VRB615E-C63030
			A		54mm	iAR51+VRB615E-A63030

Diagram and connection



Outline and installation dimensions



Smart metering module iMM1

Overview

- Ensures the stability, safety, and reliability of the system by responding to abnormal conditions, Minimizing the impact of faults, and preventing damage to equipment.
- Quickly detects and responds to faults, reducing their impact on the power system.
- Widely use in outdoor and indoor system, such as railway road, public lights, telecommunication tower, water pump station, alarm system protection, supermarkets, industrial plants, data processing centers and so on.



Technical specification

- Model : iMM1
- Rated Voltage: 1P: 90-250V, 3P: 208-415V
- Specified Operating Voltage: 90%Un~110%Un
- Extended Operating Voltage: 80%Un-115%Un
- Frequency Range: (50-60)Hz
- Power Consumption: ≤1.5W Voltage Line
- Operating Temperature: -20°C-70°C
- Operating Humidity: ≤95%
- IP Rating:
- Product Dimensions: 40mm*40mm*18mm
- Measurement & Metering: Voltage, Current, Active Power, Total Active Energy
- Standard: EN 61010-1: 2010+A1:2019+AC:2019
- Communication: Tuya WIFI, Tuya ZIGBEE
- Voltage Accuracy: 1.0
- Current Accuracy: 1.0
- Active Power Accuracy: 1.0
- Overvoltage Protection: Overvoltage Value
- Undervoltage Protection: Undervoltage Value
- Overcurrent Protection: Overcurrent Value

Features

- Together with MCB,RCCB,RCBO, it can offer overload, over/under voltage alarm protection
- Remote viewing of MCB,RCCB,RCBO through Tuya app with RS485 connection
- Padlocking to secure the circuit and assure the safety of people when maintainance
- Tuya APP

Selection and ordering data

Number of poles	Current specification	Voltage	WiFi Type code	ZigBee Type code
1P	0.5-63A	90-250V	iMM1SW	iMM1SZ
3P	0.5-63A	208-415V	iMM1TW	iMM1TZ