

Smart miniature circuit breaker

UEZ3 (L) -63 series



INTRODUCTION

Hongfa, (Shanghai Stock Exchange: 600885), founded in 1984, has been adhering to the enterprise spirit of “persevere for progress, strive for excellence”, and has built a complete industry system with complete categories and supporting facilities. At present, Hongfa has more than 30 subsidiaries and has established three districts of R & D and production bases. Its products cover various categories, such as medium and low voltage products, relays, high and low voltage switchgear, capacitors, precision parts and automation equipment.

Xiamen Hongfa Electrical Safety & Controls Co., Ltd. is a wholly-owned subsidiary of Hongfa, which specializes in R & D, design and manufacture medium and low voltage products. Its distribution apparatus, terminal apparatus, control apparatus and other products are widely used in real estate, electric power, new energy, industry, HVAC, transportation, information and other fields.

In the United States, Europe, Southeast Asia and other regions, Hongfa has established localized marketing and service networks with global market operation and technical service. Relying on professional and rigorous technical support, fast response and all-round service, safe and reliable product quality and high cost performance, Hongfa has reached business cooperation relationship with many global top 500 enterprises and other well-known enterprises, such as Enel, GE, Honeywell, Carrier, Trane, Johnson Controls, Danfoss, State Grid, China Southern Power Grid, CRRC, China Mobile, China Unicom, etc.



Sunban Industrial Park



Donglin Industrial Park



Haicang Industrial Park



Zhongjiang Industrial Park



Zhangzhou Industrial Park



Zhoushan Industrial Park



Xi'an Factory

In terms of technology R & D and manufacturing, taking the national enterprise technology center as the platform, Hongfa has set up postdoctoral research workstation, academician and expert workstation. Now it has developed into a leading scientific research and production base in the industry. From product development, mold manufacturing, parts manufacturing, automated product assembly and online testing, Hongfa has successfully built an integrated whole industry chain of medium and low voltage products. In terms of product testing, Hongfa testing center has passed the certification of VDE, UL, CNAS and other international organizations, and has complete testing and analysis equipment for low-voltage products, such as 50kA ultimate short circuit test, 8kA electrical life test, 80kA characteristic test, mechanical simulation and testing system, electro-magnetic simulation and testing system.

Hongfa always adheres to the policy of "focused on the market, winning through quality", and has a completed quality assurance system. Its products have passed UL / CUL, VDE, CQC, CCC and other international safety certification. In the process of quality management, Hongfa actively implements the advanced quality concept, constantly improves the quality management system, continuously promotes the product process quality control and testing, strengthens the supply chain management, and is committed to providing each customer with high-quality products and creating greater value.

Advanced technology and strict quality control have created Hongfa's brand strength. Hongfa is willing to work hand in hand with global customers to share the convenience and well-being brought by science and technology.

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UEZ3L-63 series

Smart miniature circuit breaker

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NOTE:

The contents and data in this catalogue are not binding. We reserve the right to modify the contents of this document on the basis of technical development of the products, without prior notice. The real order requirements and technical agreements shall prevail.

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UEZ3-63 Series

Product Overview

Scope of Application

UEZ3-63 series Smart miniature circuit breaker are integrated and smart products developed for smart control and IOT applications. Smart miniature circuit breakers are composed of sensors, microelectronics, computers and communication technology on the basis of traditional circuit breakers. In addition to the traditional circuit breakers' overload and short circuit protection functions there are remote control, electrical parameter measurement, over-voltage, self-recovery, fault analysis, fault alarm, local reclosing, RS485 communication and other functions, suitable for AC 50Hz, rated operational voltage 230V/400V, rated operational current up to 63A circuit. They are widely used in smart power distribution, video monitoring, communication based stations, data centers, charging piles, smart homes, fire protection, security and many other applications.

M series (smart metering): short-circuit protection, overload setting current protection, over & under voltage auto-reclosing, electrical parameter metering, remote control, fault analysis, fault alarm, fault recording, RS485 communication, and other functions.

C10-P series (remote control): short-circuit protection, overload protection, over & under voltage auto-reclosing, local reclosing, RS485 remote breaking and closing, Dry contact control.

C series (remote control): short-circuit protection, overload protection, RS485 remote breaking and closing.

R-P series (local reclosing): short-circuit protection, overload protection, over & under voltage auto-reclosing, local reclosing.

Y-P series (over & under voltage auto reclosing): short-circuit protection, overload protection, over & under voltage auto-reclosing

Product Features

Multi-function Overload protection, short-circuit protection, remote control, electric parameter measurement, over & under voltage auto reclosing, fault analysis, fault alarm, RS485 communication multiple functions.

Miniaturization The high combination of mechanical release, contact system, arc extinguishing device, DC motor, reduction mechanism, sensor and electronic components makes the product compact in structure and simple in appearance.

High safety Overload, overvoltage, under voltage, over power, over temperature and other protection can be provided; short circuit protection adopts mechanical protection, with fast operation and high breaking capacity.

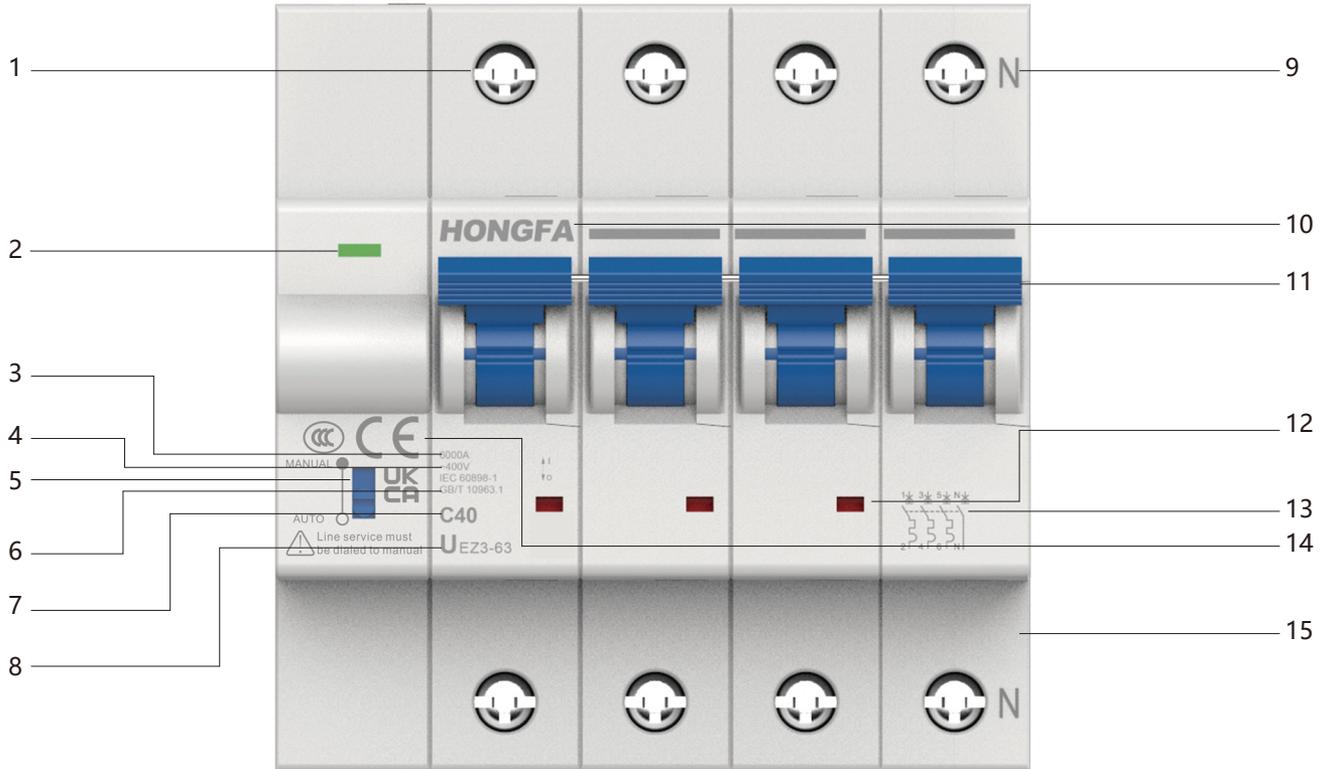
Intelligentization Edge computing strategy, circuit important protection local processing execution; remote multi-category information collection, multi-program control, to meet the needs of the Internet of Things.

High reliability the operation mechanism adopts efficient and reliable DC motor to provide stable power for breaking and closing, and the positioning system adopts high precision detection switch for accurate positioning and strong anti-interference ability; the circuit board adopts anti-interference design to meet EMC requirements.

Easy installation Adopt modular design, can be installed on standard 35mm rail; control power and RS485 communication using plug in connection, and a variety of communication wire accessories are optional.

IEC 60898-1

Product Structure Diagram



- | | | | |
|-----------------------|-----------------------------|--|----------------------|
| 1. Fastening screw | 2. Control module indicator | 3. Breaking capacity | 4. Rated voltage |
| 5. Auto/manual switch | 6. Standard | 7. Tripping characteristic and rated current | 11. Handle |
| 8. Product series | 9. N pole | 10. Hongfa logo | 12. On/off indicator |
| | 13. Connection diagram | 14. Approval mark | 15. Plastic case |

Red: ON status

Green: OFF status

Standard

	CCC	GB/T10963.1
	CB	IEC 60898-1
	CE	IEC 60898-1, IEC 61543
	UKCA	IEC 60898-1

Standard Operation and Installation Conditions

- Operation temperature range: -25 °C...+70 °C (Monthly average temperature ≤35 °C)
- Storage temperature range: -40 °C...+80 °C
- Relative humidity: annual average: <75%; 30 days (these days are distributed in a natural way throughout the year): 95%; occasional days: 85%
- Altitude: ≤2000m
- Pollution degree: 2
- Mounting category: II/III
- Mounting condition: Install on 35mm DIN rail; No more than 5 times the geomagnetic field in any direction

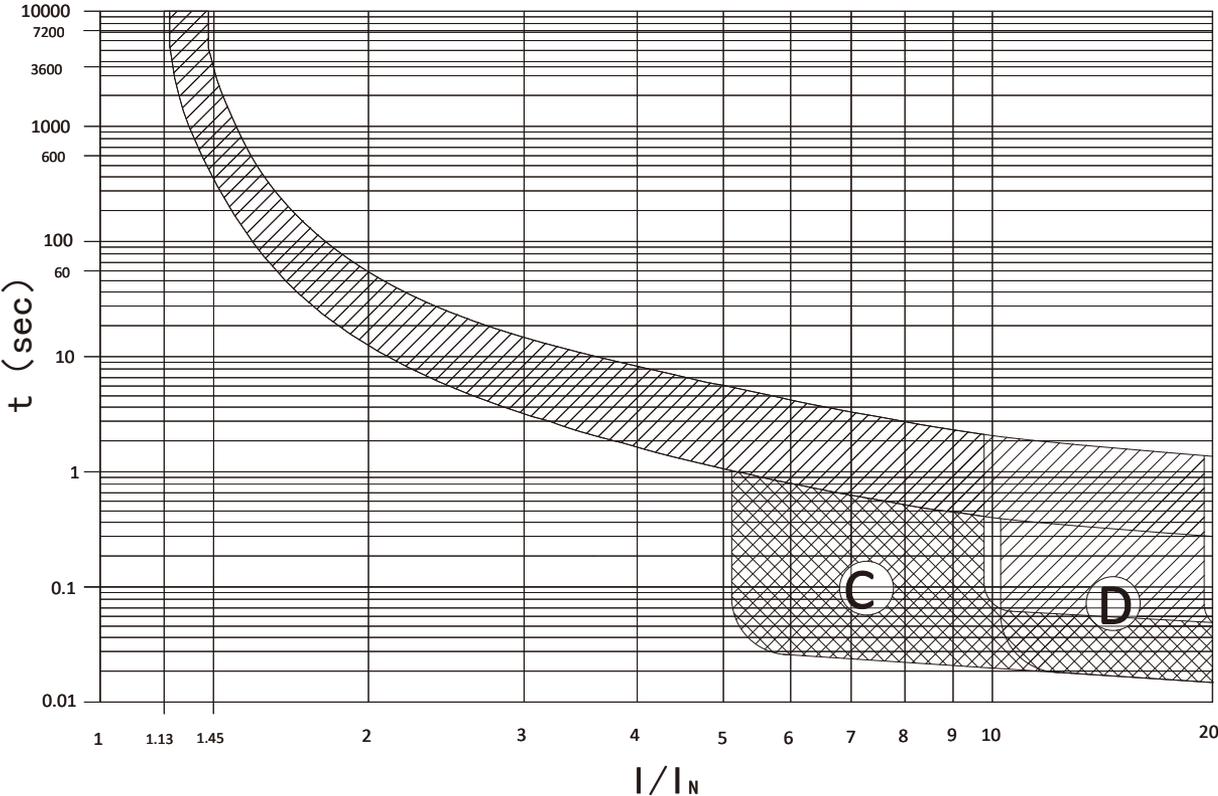
Ordering Information

	UE	Z	3	-63	/C	63	1	-M		-L	P	N
Company Code: Xiamen Hongfa Electrical Safety & Controls Co., Ltd.												
Product code: Smart miniature circuit breaker												
Design serial number: 3												
Frame size 63:63A												
Breaking capacity: blank: 6kA												
Instantaneous tripping characteristics: C: 5In...10In; D: 10In...20In												
Rated current: 6A (M series only), 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A												
Number of poles: 1: 1P (only M and C series have); 1N: 1P+N; 3: 3P (only M and C series have; only used in three-phase three wire systems); 3N: 3P+N												
Application category: M: Smart metering; C: Remote control; R: Local reclosing; Y: Over & under voltage auto reclosing												
Communication and control mode: vacancy: RS485 communication (only M and C series have); 10: Dry contact control (only C series have)												
Monitoring function: blank: no monitoring function; L: with leakage monitoring function, without leakage protection (Only M series 1N/3N available)												
Power supply mode: blank: DC12V power supply; P: self-power supply (Only R series, Y series, and products with communication and control mode 10 have)												
Electricity metering external wiring: blank: no external wiring; N: external N pole wiring												

Main Technical Data

Model	UEZ3-63						
Number of poles	1P (only available for M and C series), 1P+N, 3P (only available for M and C series; only used in three-phase three wire systems), 3P+N						
Instantaneous tripping characteristics	C: 5In...10In; D: 10In...20In						
Short circuit breaking capacity	Icn=Ics=6kA						
Rated current In	6A(M series only), 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A						
Rated voltage Ue	230VAC (1P+N); 400VAC (3P/3P+N); 230/400VAC (1P)						
Rated insulation voltage Ui	500V						
Rated impulse withstand voltage Uimp	4kV						
Automatic closing time	Tc≤3s						
Automatic breaking time	Td≤2s						
Mechanical endurance	10000						
Electrical endurance	6000 (power factor 0.85...0.9)						
Protection degree	IP20						
Functions			M Series	C10-P Series	C Series	R-P Series	Y-P Series
	Power Supply	Built-in power supply		√		√	√
		External power supply	DC12V			DC12V	
	Protection functions	Short circuit protection	Type C / Type D				
		Overload protection	√	√	√	√	√
		Overload setting current protection	√				
		Over-voltage and under-voltage auto reclosing	√	√		√	√
	Local reclosing function		√(default off)	√		√	
	Control functions	Remote control function	√	√	√		
		Dry contact control		√			
	Metering functions	Current metering	√				
		Voltage measurement (power, electricity)	√				
	Alarm, fault analysis, fault record		√				
	Timing		√				
	Cost control function		√				
	Communication function	RS485	√	√	√		
	Life monitoring		√				
Instruction function		Closing indication: the indicating light is green. Breaking indication: the indicating light is red. Fault indication: the indicating light is flashing red. Fault to be closed: the indicating light is flashing green. Manual state: The indicating light is flashing red and green alternately.					
Weight(g)	1P	192					
	1P+N	265					
	3P	455					
	3P+N	532					
Product Packaging	Master carton: 405mm×223mm×248mm						
Wiring method	Upper incoming						

Tripping Characteristic

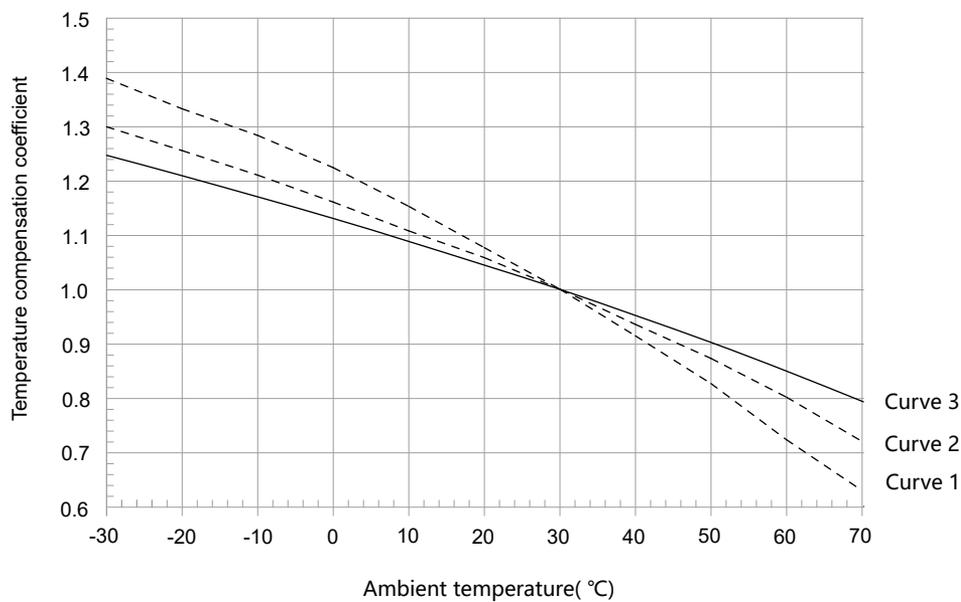


Derating coefficients

Temperature compensation coefficient

Under different temperature conditions, the supplement coefficient corresponding to the overload tripping current and the rated value of the equipment shall not exceed

Correction coefficient corresponding to the curve (M series without temperature compensation)								
Rated current(A)	10	16	20	25	32	40	50	63
C	1	2	2	2	2	2	2	3
D	1	2	2	2	2	2	2	3



Frequency factor

Only applicable to 50Hz

Derating Coefficient in High Altitude Area

Altitude (m)	2000	3000	4000
Rated current I_n	1	0.97	0.91
Rated insulation voltage U_i	1	0.90	0.82
Power frequency withstand voltage	1	0.90	0.82
Rated impulse withstand voltage U_{imp}	1	0.90	0.82
Rated breaking capacity I_{cn}	1	0.87	0.77
Electrical endurance	1	0.87	0.77

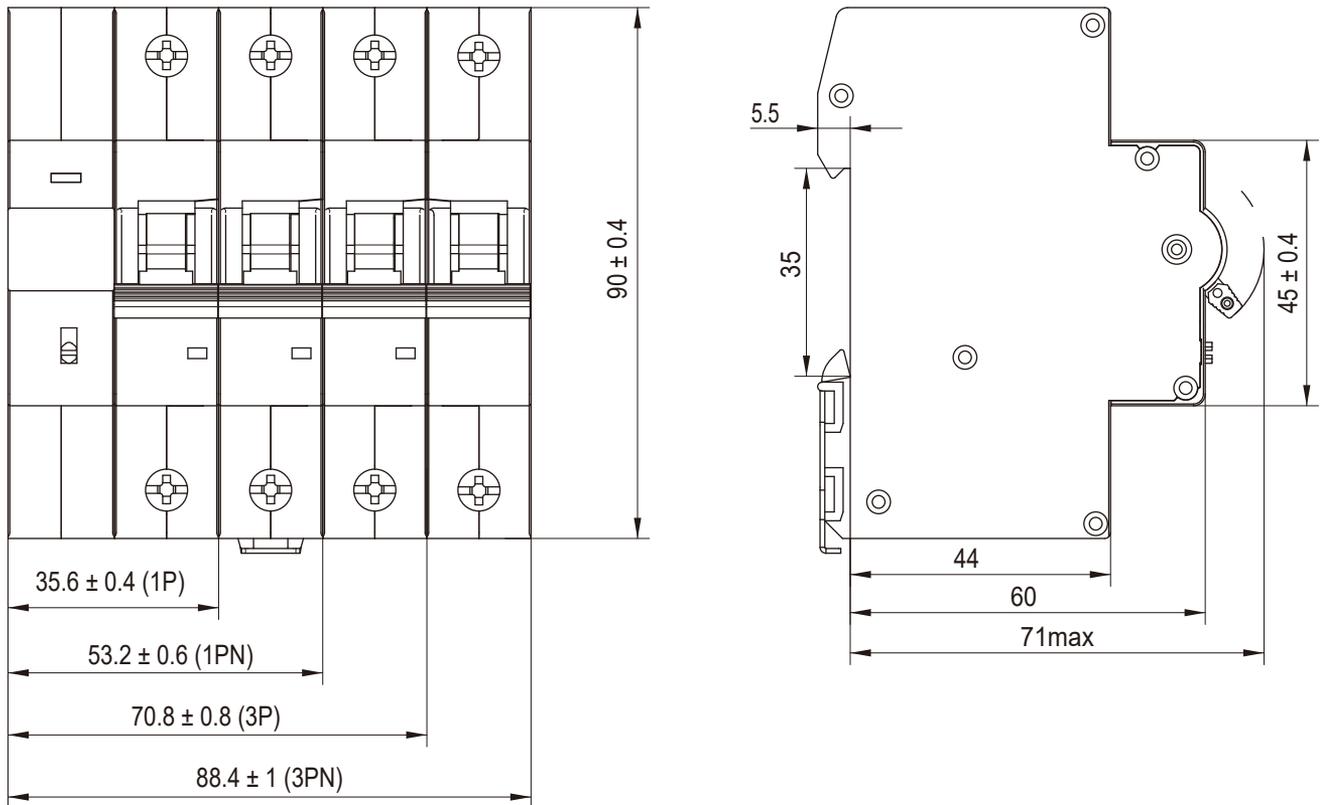
Wiring Capability

Terminal Screw Specifications	Rated torque	Max torque	IEC standard torque	Rigid (solid or stranded) copper wire	Standard soft copper wire
M7	3.5N.m	4.5N.m	3.5N.m	1.0mm ² ~ 35mm ²	1.0mm ² ~ 25mm ²

Screw clamp terminals, and wires of 1.0mm²~ 35mm² can be connected.

Overall Dimensions

Unit: mm



UEZ3L-63 Series Product Overview

Scope of Application

UEZ3L-63series miniature circuit breakers are integrated and smart products developed for smart control and Internet of things applications. The breakers are composed of sensor, microelectronics, computer and communication technology. In addition to the traditional circuit breakers' overload and short circuit protection functions there are functions of residual current protection, remote control, electrical parameter measurement, over-voltage and under voltage auto reclosing, fault analysis, fault warning, local reclosing, RS485 communication, etc. suitable for AC 50Hz, rated operational voltage of 230V / 400V and rated operational current of 63A. They are widely used in smart power distribution, video monitoring, communication based stations, data centers, charging piles, smart homes, fire protection, security and other applications.

M series (smart metering): short-circuit protection, overload setting current protection, over voltage&under voltage auto-reclosing, residual current protection, electrical parameter metering, remote control, fault analysis, fault alarm, fault recording, RS485 communication, and other functions.

C10-P series (remote control): short-circuit protection, overload protection, over voltage& under voltage auto-reclosing, residual current protection, local reclosing, RS485 remote breaking and closing, dry contact control breaking and closing.

C series (remote control): short-circuit protection, overload protection, residual current protection, RS485 remote breaking and closing.

R-P series (local reclosing): short-circuit protection, overload protection, residual current protection, over&undervoltage auto-reclosing, local reclosing.

Y-P series (over &under voltage auto reclosing): short-circuit protection, overload protection, over &under voltage auto-recovery, residual current protection.

Product Features

Multi-function Overload protection, short-circuit protection, residual current protection, leakage automatic self-test, remote control, electric parameter measurement, over voltage& under voltage auto reclosing, fault analysis, fault alarm, RS485 communication multiple functions.

Miniaturization High combination of mechanical release, contact system, arc extinguishing device, DC motor, reduction mechanism, sensor and electronic components makes the product compact in structure and simple in appearance.

High safety Overload, overvoltage, undervoltage, residual current, over power, over temperature and other protection can be provided; short circuit protection adopts mechanical protection, with fast operation and high breaking capacity; residual current protection adopts double chip protection, which can still protect the operation after the control module fails.

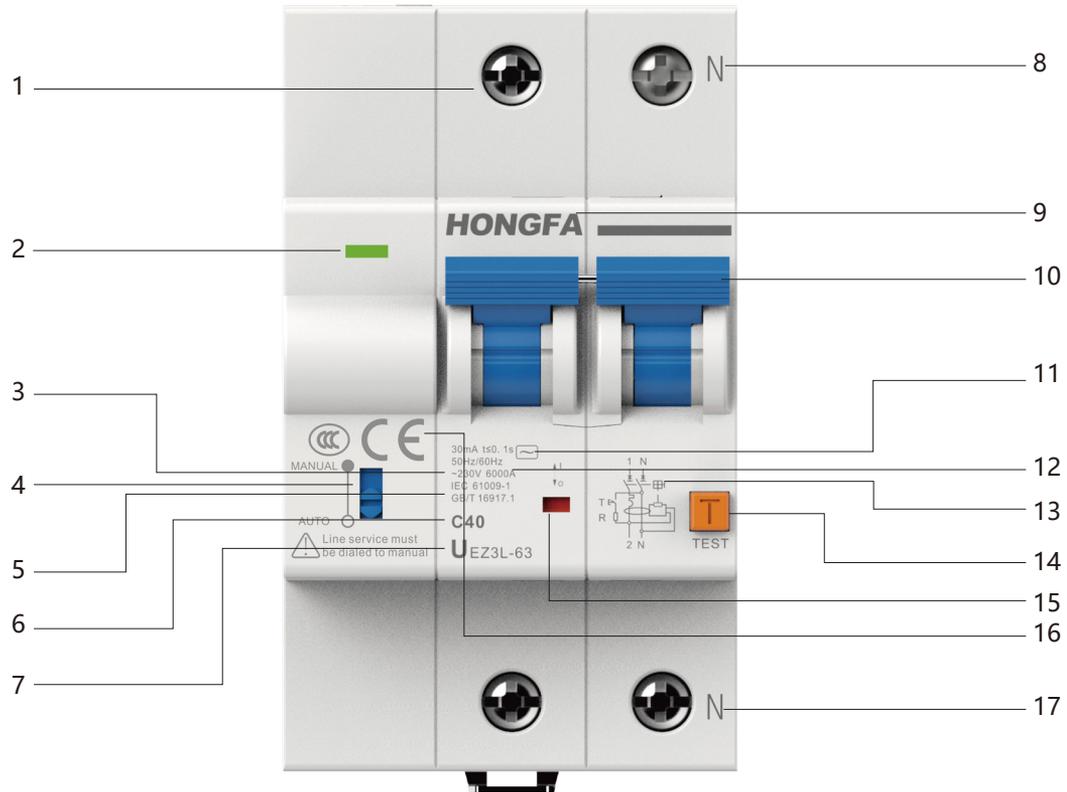
Intelligentization Edge computing strategy, circuit important protection local processing execution; remote multi-category information collection, multi-program control, to meet the needs of the Internet of Things.

High reliability The operation mechanism adopts efficient and reliable DC motor to provide stable power for breaking and closing, and the positioning system adopts high precision detection switch for accurate positioning and strong anti-interference ability; the circuit board adopts anti-interference design to meet EMC requirements.

Easy installation Adopt modular design, can be installed on standard 35mm rail; control power and RS485 communication using plug in connection, and a variety of communication wire accessories are optional.

UEZ3L-63 Series Product Overview

Product Structure Diagram



- | | | | |
|-----------------------|---|-------------------|--|
| 1. Fastening screws | 2. Control module indicator | 3. Rated voltage | 4. Auto/manual switch |
| 5. Standard | 6. Tripping characteristics and rated current | 7. Product series | 11. Rated residual operating current and breaking time |
| 8. N pole | 9. Hongfa logo | 10. Handle | |
| 12. Breaking capacity | 13. Connection diagram | 14. Test button | |
| 15. On/OFF indicator | 16. Approval mark | 17. Plastic case | |
- Red: on state
Green: off state

Standard

	CCC	GB/T 16917.1; GB/T 16917.22
	CB	IEC61009-1, IEC61009-2-2
	CE	IEC61009-1, IEC61009-2-2

Standard Operation and Installation Conditions

- Operating temperature range: -25 C...+70 C (monthly average temperature ≤35 C)
- Storage temperature range: -40 C...+80 C
- Relative humidity: annual average: <75%; 30 days (these days are distributed in a natural way throughout the year): 95%; occasional days: 85%
- Altitude: not more than 2000m
- Pollution degree: 2
- Installation category: II/III
- Mounting condition: Install on 35mm DIN rail; No more than 5 times the geomagnetic field in any direction

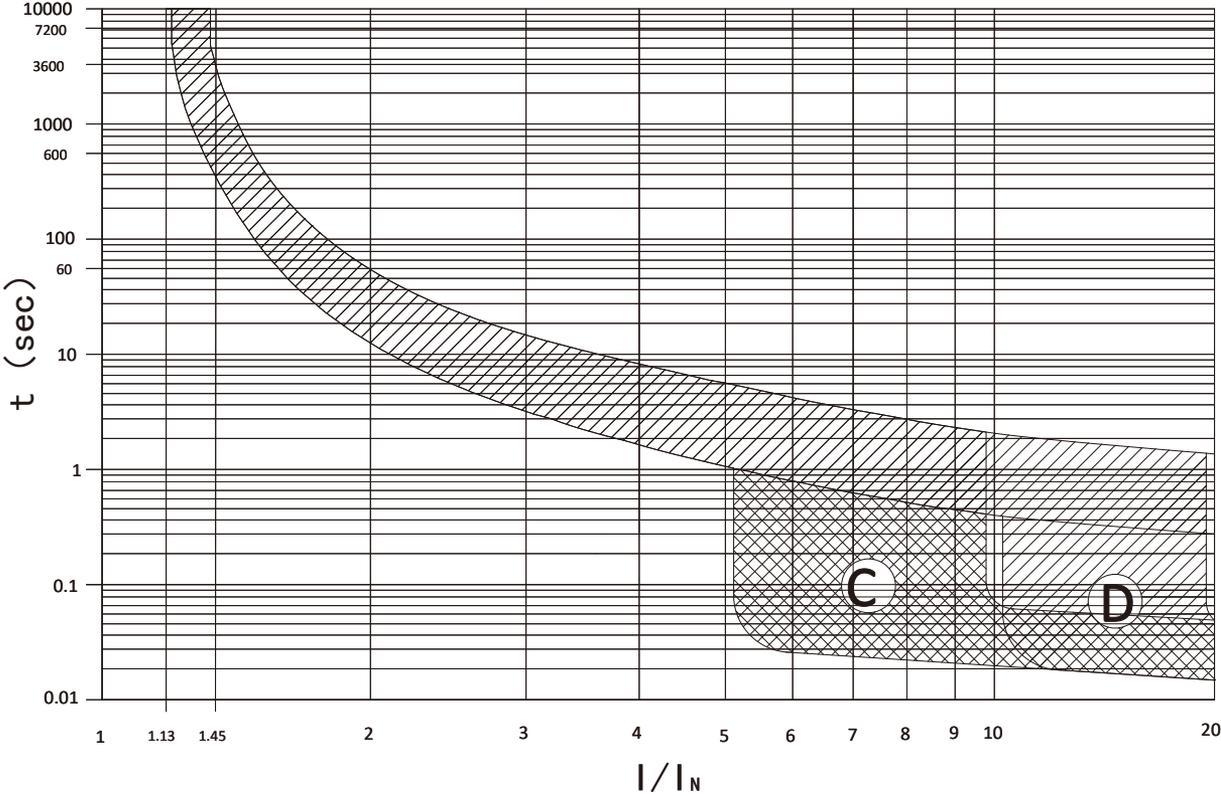
Ordering Information

	UE	Z	3	L	-63	/C	63	1N	B	AC	-M	-P
Company Code: Xiamen Hongfa Electrical Safety & Controls Co., Ltd.												
Product code: Smart breaker												
Design serial number: 3												
Series derivation codeL: Electronic RCBO												
Frame size: 63: 63A												
Breaking capacity: Blank: 6kA												
Instantaneous tripping characteristics: C: 5In ~10In; D: 10In ~ 20In												
Rated current: 6A (M series only), 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A												
Number of poles: 1N: 1P+N; 3N: 3P+N												
Residual current sensitivity: B: 30mA; H: 50mA; C: 100mA; D: 300mA												
Residual current tripping type: AC: AC type; A: A type												
Application category: M: Smart metering/C: Remote control/R: Local reclosing/Y: Over & under voltage auto reclosing												
Communication and control mode: Blank: RS485 communication; 10: Dry contact control (only C series have)												
Power supply mode: Blank: DC12V power supply, P: self-power supply												

Main Technical Data

Model	UEZ3L-63						
Number of pole	1P+N, 3P+N						
Instantaneous tripping characteristics	C: 5In...10In; D: 10In...20In						
Short circuit breaking capacity	Icn=Ics=6kA						
Rated current In	6A(M series only), 10A, 16A, 20A, 25A, 32A, 40A, 50A, 63A						
Rated voltage Ue	230VAC (1P+N); 400VAC (3P+N)						
Rated insulation voltage Ui	500V						
Rated impulse withstand voltage Uimp	4kV						
Automatic closing time	Tc≤3s						
Automatic breaking time	Td≤2s						
Mechanical endurance	10000						
Electrical endurance	6000(power factor 0.85...0.9)						
Protection degree	IP20						
Rated residual operating current IΔn	30mA, 50mA, 100mA, 300mA						
Residual operation current type	A, AC						
Rated residual current breaking & making capacity IΔm	3kA						
Functions	Power supply method	Built-in power supply	M Series	C10-P Series	C Series	R-P Series	Y-P Series
		External power supply	DC12V		DC12V		
	Protection functions	Short circuit protection	Type C / Type D	Type C / Type D	Type C / Type D	Type C / Type D	Type C / Type D
		Overload protection	√	√	√	√	√
		Overload setting current protection	√				
		Over & under-voltage auto reclosing	√	√		√	√
	Local reclosing function		√(default off)	√		√	
	Control Functions	Remote control function	√	√	√		
		Dry contact control		√			
	Metering functions	Current metering	√				
		Voltage measurement (power, electricity)	√				
	Alarm, fault analysis, fault recording		√				
	Timing		√				
	Cost control function		√				
	Communication function	RS485	√	√	√		
	Life monitoring		√				
	Indicating function		Closing indication: the indicating light is green. Breaking indication: the indicating light is red. Fault indication: the indicating light is flashing red. Fault to be closed: the indicating light is flashing green. Manual state: The indicating light is flashing red and green alternately.				
Weight(g)	1P+N	295					
	3P+N	713					
Product Packaging	Master carton: 405mm×223mm×248mm						
Wiring method	Upper incoming						

Tripping Characteristic

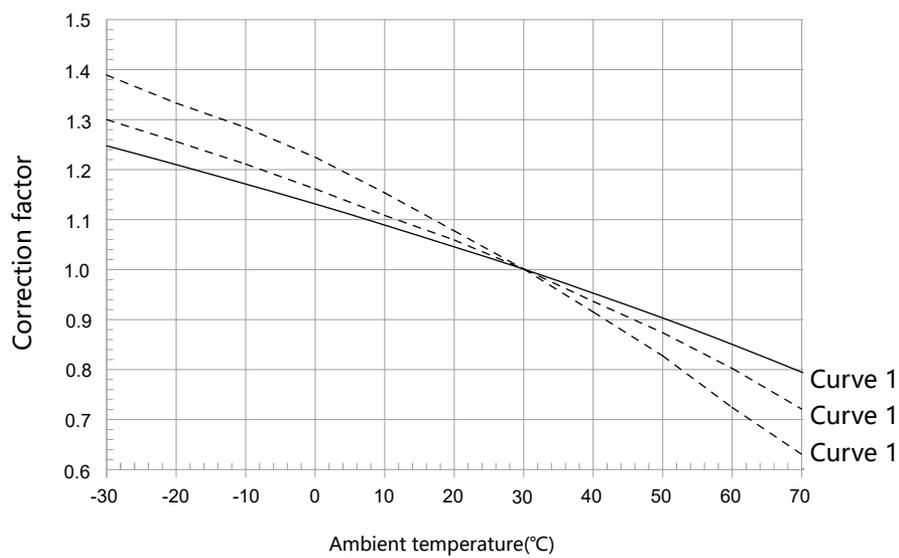


Derating coefficients

Temperature compensation coefficient

Under different temperature conditions, the supplement coefficient corresponding to the overload tripping current and the rated value of the equipment shall not exceed.

Derating factors(M series without temperature compensation)								
Rated current(A)	10	16	20	25	32	40	50	63
C	1	2	2	2	2	2	2	3
D	1	2	2	2	2	2	2	3



Frequency factor

Only applicable to 50Hz

Derating Coefficient in High Altitude Area

Altitude (m)	2000	3000	4000
Rated current I_n	1	0.97	0.91
Rated insulation voltage U_i	1	0.90	0.82
Power frequency withstand voltage	1	0.90	0.82
Rated impulse withstand voltage U_{imp}	1	0.90	0.82
Rated breaking capacity I_{cn}	1	0.87	0.77
Electrical endurance	1	0.87	0.77

Wiring Capability

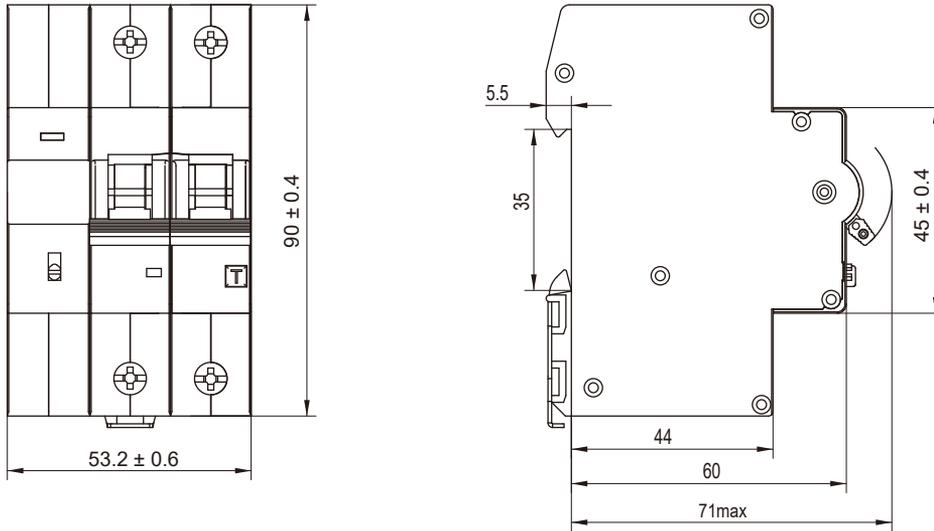
Terminal Screw Specifications	Rated torque	Max torque	IEC standard torque	Rigid (solid or stranded) copper wire	Standard soft copper wire
M7	3.5N.m	4.5N.m	3.5N.m	1.0mm ² ~ 35mm ²	1.0mm ² ~ 25mm ²

Screw clamp terminals, and wires of 1.0mm²~ 35mm² can be connected.

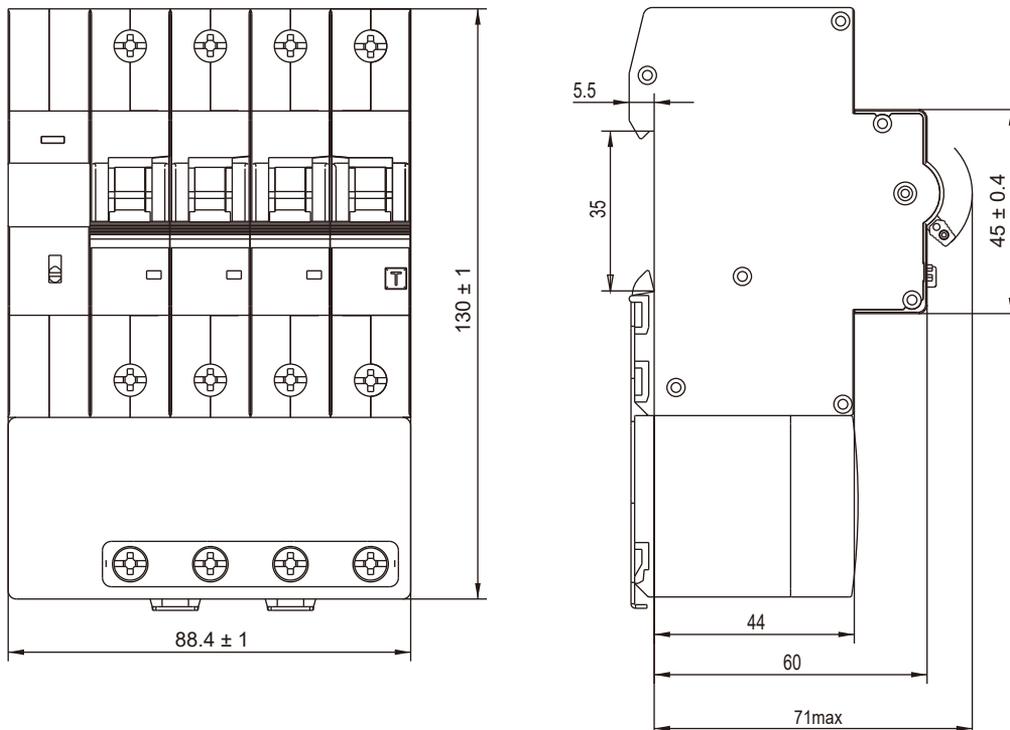
Overall Dimensions

Unit: mm

1P+N



3P+N



Accessories/Z3PW-30 Power module

Product Overview

Scope of Application

The accessories of this series are auxiliary functional components matched with UEZ3 series intelligent circuit breakers (AC). In household, building and other electrical circuits, different switching power supplies are selected according to needs to achieve normal power supply for intelligent circuit breakers, gateways, etc.

Standard Operation and Installation Conditions

- Operating temperature range: - 25 °C...+70 °C (monthly average temperature ≤ 35 °C)
- Storage temperature range: - 40 °C...+80 °C
- Relative humidity: annual average: < 75%; 30 days (these days are distributed in a natural way throughout the year):95%; occasional days: 85%
- Altitude: not exceeding 2000m
- Pollution degree: 2
- Installation category: II/III
- Mounting condition.Install on 35mm DIN rail; No more than 5 times the geomagnetic field in any direction

Product appearance



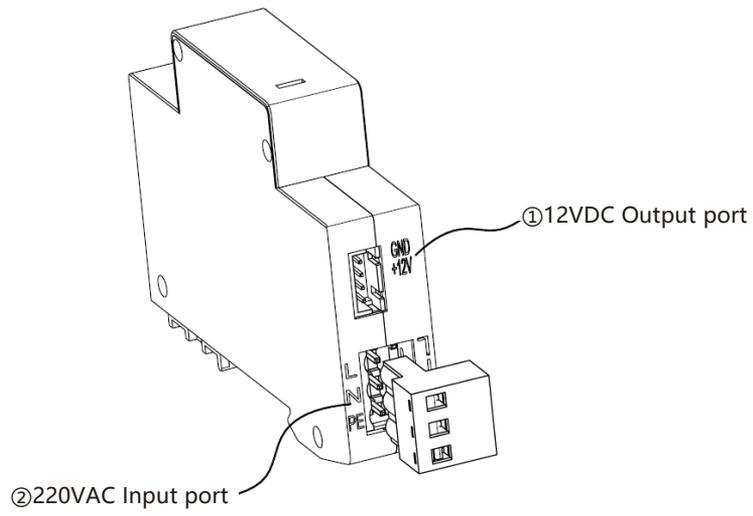
Ordering Information

	Z	3	PW	-30
Product code: accessories of intelligent miniature circuit breaker				
Design No.: 3				
Accessory type: power module				
Power of power module: 30W				

Main Technical Data

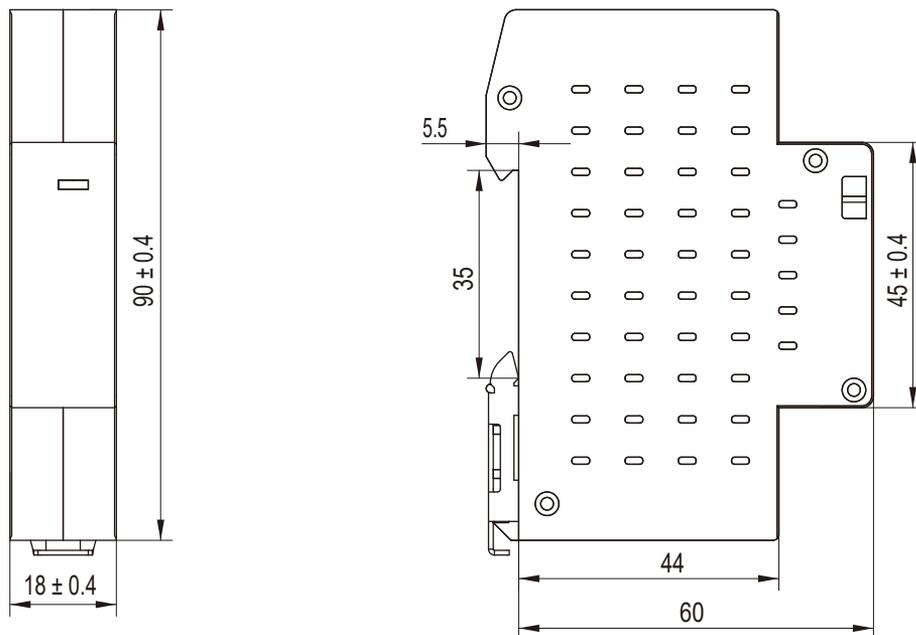
Model		Z3PW-30
Output	DC voltage	12V
	Rated current	2.5A
	Current range	0~2.5A
	Ripple and Noise	100mVp-p
	Voltage accuracy	± 2%
Input	Voltage range	AC:120 V ~ 260V
	Frequency range	47 ~ 63Hz
	Efficiency	80%
EMC immunity (Overall test of matched circuit breaker)	Electrostatic discharge test	Refer to GB/T 17626.2-2008. Severity level 3, air discharge 8kV; Contact discharge 6kV
	Surge test	Refer to GB/T 17626.5-2008. Severity level 4, common mode: 4kV, differential mode: 2kV.
	Electrical fast transient/burst immunity test	Refer to GB/T 17626.4-2008. Severity level 4, power terminal 4kV (peak value), I/O signal, data and control port 2kV (peak value).
Other	Weight (g)	87.5
	Product packaging information	Outer packing box 405mm×223mm×248mm

Interface description



Overall Dimensions

Unit: mm



Accessories/Z3GW Gateway Product Overview

Scope of Application

Z3GW gateway is an auxiliary functional element matched with UEZ3-63 series intelligent circuit breaker, the 485 interface signal can be converted into WiFi wireless communication, Ethernet signal or 4G signal interface transmission, support LTE-FDD, LTE-TDD, EDGE and GPRS network data connection, realize the remote control function of intelligent circuit breaker networking or configure it separately Universal transparent transmission method.

Standard Operation and Installation Conditions

- Operation temperature range: -25 C... +70 C (Monthly average temperature ≤35 C)

- Storage temperature range: -40 C...+80 C

- Relative humidity: annual average: <75%; 30 days (these days are distributed in a natural way throughout the year): 95%; - occasional days: 85%

- Altitude: ≤2000m

- Pollution degree: 2

- Mounting category: II/III

- Mounting condition: Install on 35mm DIN rail; No more than 5 times the geomagnetic field in any direction

Product appearance



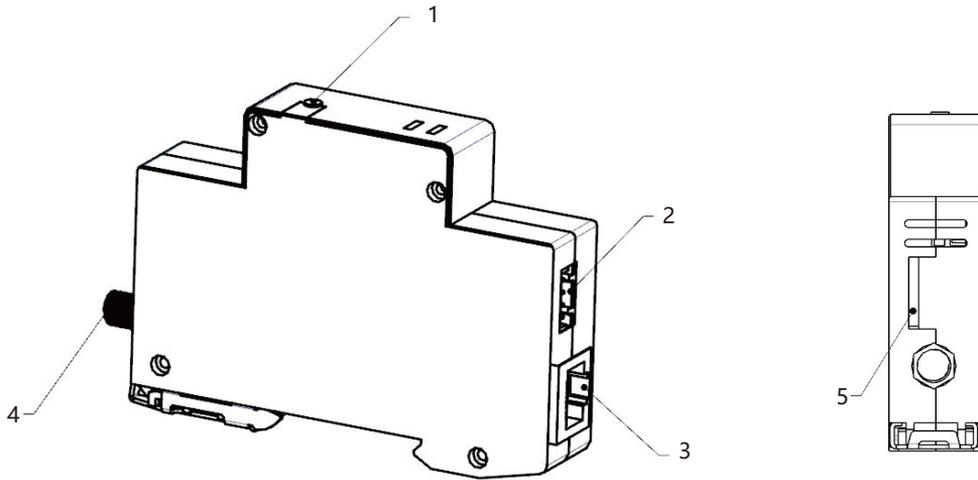
Ordering Information

	Z	3	GW	-W/E/G
Product code: accessories of intelligent miniature circuit breaker				
Design No.: 3				
Accessory type: gateway				
Gateway application category: W: WiFi communication/E: RJ45 Ethernet communication/G: 4G communication Note: When there are multiple communication methods at the same time, follow the above order				

Main Technical Data

Model		Z3GW-W/WE/WG/WEG/WR/ER/GR/WEGR/WEGU
Support communication protocol	Z3GW-W/WE/WG/WEG	Modbus TCP、MQTT
	Z3GW-WR/ER/GR/WEGR/WEGU	Modbus RTU、Modbus TCP、MQTT
Output	Interface mode	WiFi wireless /RJ45 Ethernet port / 4G card slot /RS485/RS232
	Transmission speed	10/100Mbps
	4G data transfer rate	LTE: Max 10 Mbps (下行) / Max 5 Mbps (上行) EDGE: Max 236.8 kbps (下行) / Max 236.8 kbps (上行) GPRS: Max 85.6 kbps (下行) / Max 85.6 kbps (上行)
	WIFI transmission power	802.11b: 17±2dBm 802.11g: 15±2dBm 802.11n: 14±2dBm(@20Mbps) 802.11n: 13±2dBm(@40Mbps)
	4G output power	LTE-FDD bands: 23 dBm ±2 dB LTE-TDD bands: 23 dBm ±2 dB EGSM900 8-PSK: 27 dBm ±3 dB DCS1800 8-PSK: 26 dBm ±3 dB EGSM900: 33 dBm ±2 dB DCS1800: 30 dBm ±2 dB
Input	4G output power	DC:11V~ 13V
	4G output power	≤ 100mA
	4G Support frequency bands	LTE-FDD: B1/B3/B5/B8 LTE-TDD: B34/B38/B39/B40/ B41 GSM:900/1800MHZ
	4G Receiving sensitivity	FDD B1: -98.0 dBm FDD B3: -98.3 dBm FDD B5: -98.5 dBm FDD B8: -98.5 dBm TDD B34: -98.5 dBm TDD B38: -98.0 dBm TDD B39: -99.0 dBm TDD B40: -98.0 dBm TDD B41: -97.5 dBm EGSM900: -109 dBm DCS1800: -108.5 dBm
	WIFI receiving sensitivity	802.11b: ≥ -89dBm@PER≤8% 802.11g: ≥ -75dBm@PER≤10% 802.11n: ≥ -72dBm@PER≤10% 802.11n: ≥ -68dBm@PER≤10%
EMC immunity (Overall test of matched circuit breaker)	Electrostatic discharge test	Refer to GB/T 17626.2-2008. Severity level 3, air discharge 8kV; Contact discharge 6kV.
	Surge test	Refer to GB/T 17626.5-2008. Severity level 4, common mode: 4kV, differential mode: 2kV.
	Electrical fast transient/burst immunity test	Refer to GB/T 17626.4-2008. Severity level 4, power terminal 4kV (peak value), I/O signal, data and control port 2kV (peak value).
Weight(g)	Z3GW-W	45
	Z3GW-WE	48
	Z3GW-WG	60(excluding antennas)
	Z3GW-WEG	63(excluding antennas)
	Z3GW-WR	50
	Z3GW-ER	52
	Z3GW-GR	64(excluding antennas)
	Z3GW-WEGR	67(excluding antennas)
Z3GW-WEGU	67(excluding antennas)	
Product packaging information		Outer packing box 405mm×223mm×248mm

Interface description

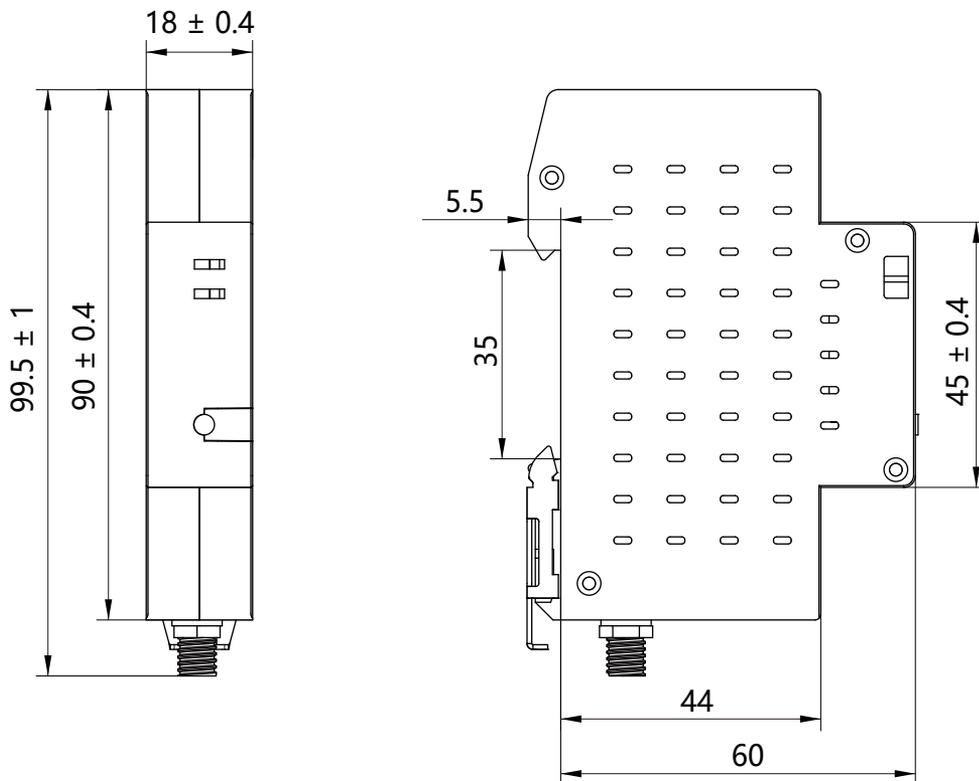


1.Reset button
3.RJ45 interface
5.4G card slot

2.485 communication interface
4.SMA female

Overall Dimensions

Unit: mm



Accessories/Z3CL Communication conductor Product Overview

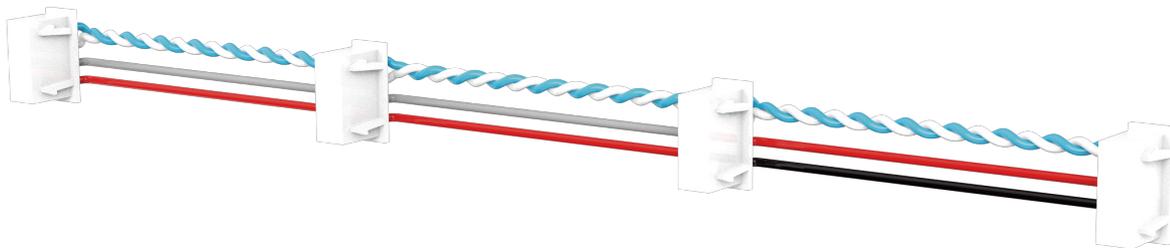
Scope of Application

Z3CL communication wire is an auxiliary functional element matched with UEZ3 series intelligent circuit breaker, which is used for gateway, power supply and intelligent circuit breaker connection, information transmission and energy input.

Standard Operation and Installation Conditions

- Operating temperature range: $-25\text{ }^{\circ}\text{C} \sim +70\text{ }^{\circ}\text{C}$
- Storage temperature range: $-40\text{ }^{\circ}\text{C} \sim +80\text{ }^{\circ}\text{C}$
- Relative humidity: annual average: $< 75\%$, 30 days (these days are distributed in a natural way throughout the year): 95% ;
Occasionally on other days: 85%
- Altitude: no more than 2000m
- Pollution level: Level 2

Product appearance



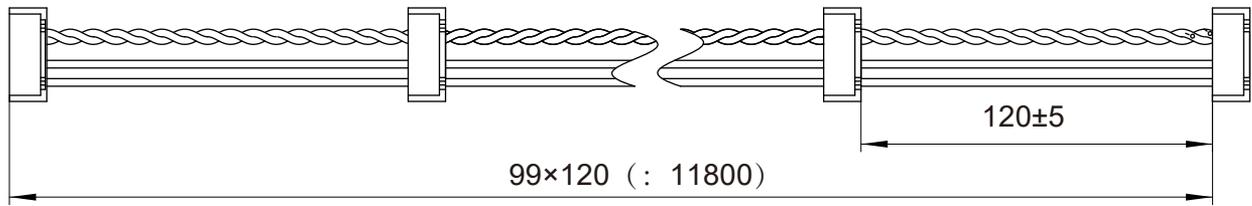
Ordering Information

	Z	3	CL	-1	-120
Product code: accessories of intelligent miniature circuit breaker					
Design No.: 3					
Accessory type: communication wire					
Number of wire quick connectors: 1: 1 quick connector (1~100)					
Unit length of conductor: 120: 120mm (20mm~1000mm)					

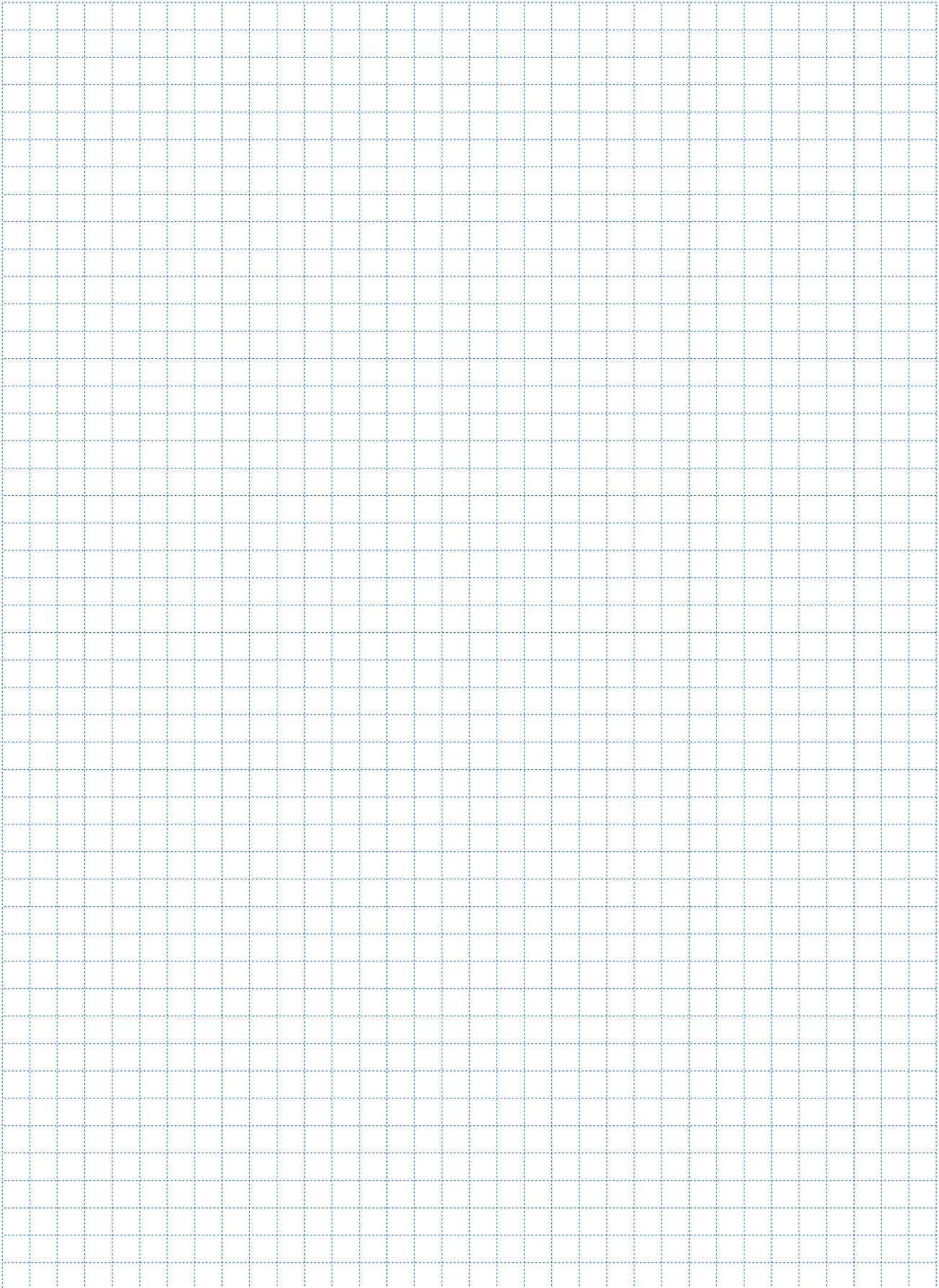
Main Technical Data

Model	Z3CL-1-120	Z3CL-100-120
Number of lines	4	4
Number of joints	1	100
Colour	Black: GND Red: +12V Blue: 485B White: 485A	Black: GND Red: +12V Blue: 485B White: 485A
Conductor model	UL1007 26AWG	UL1007 26AWG
Loop resistance	$\leq 0.035\Omega$	$\leq 3\Omega$
Rated voltage	12V	12V
Rated current	3A	3A
Withstand voltage (between lines)	500V	500V
Pulling out force of terminal and hole seat	$\geq 5\text{N}$	$\geq 5\text{N}$
Breaking tension of wire terminal	$\geq 20\text{N}$	$\geq 20\text{N}$

Overall Dimensions



导线颜色从左到右：白、蓝、红、黑。



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Printed in July 2024