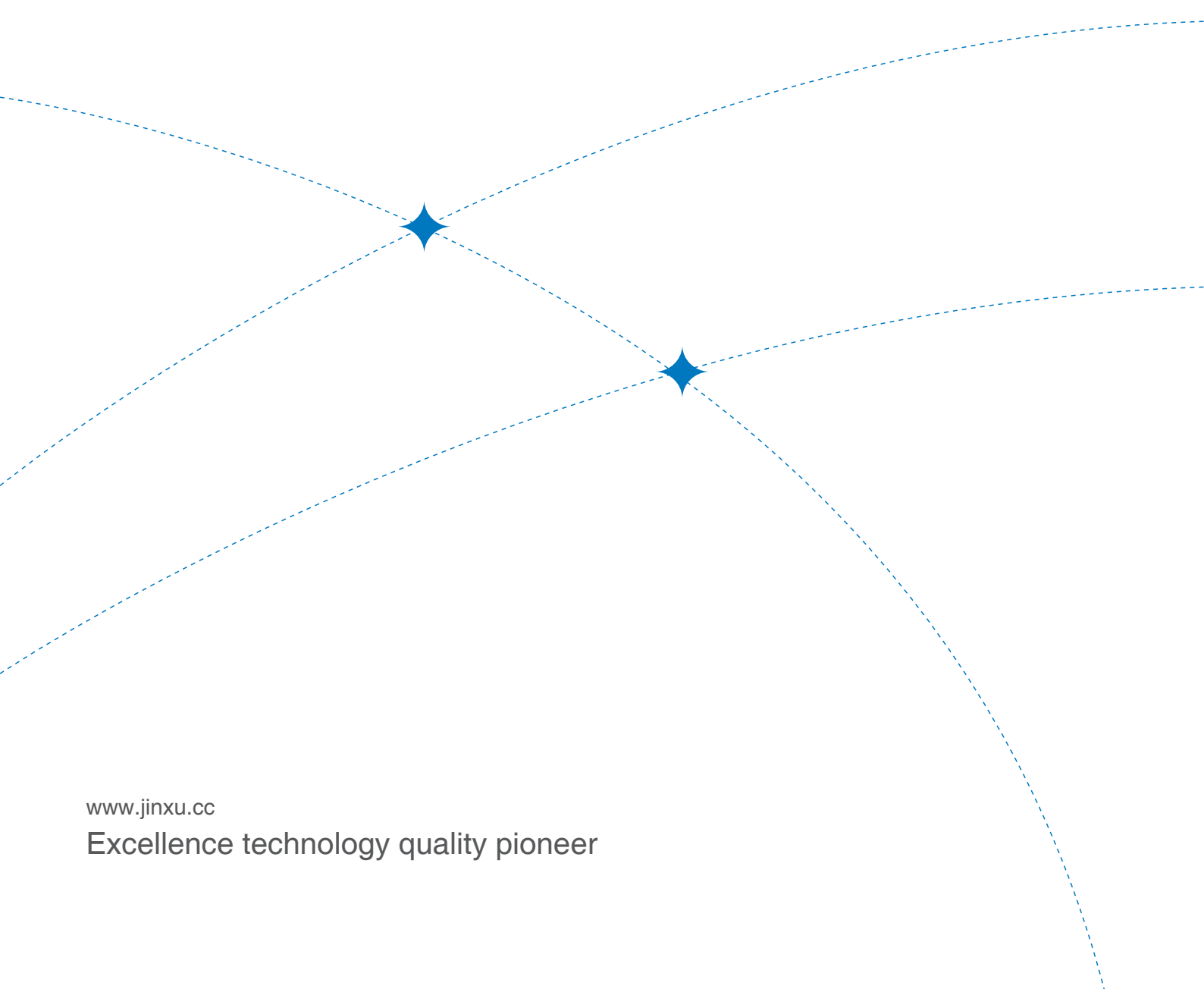




**LOW-VOLTAGE ELECTRICAL**  
PRODUCTS CATALOGUE



[www.jinxu.cc](http://www.jinxu.cc)

Excellence technology quality pioneer



# Green energy

We need to work together.....



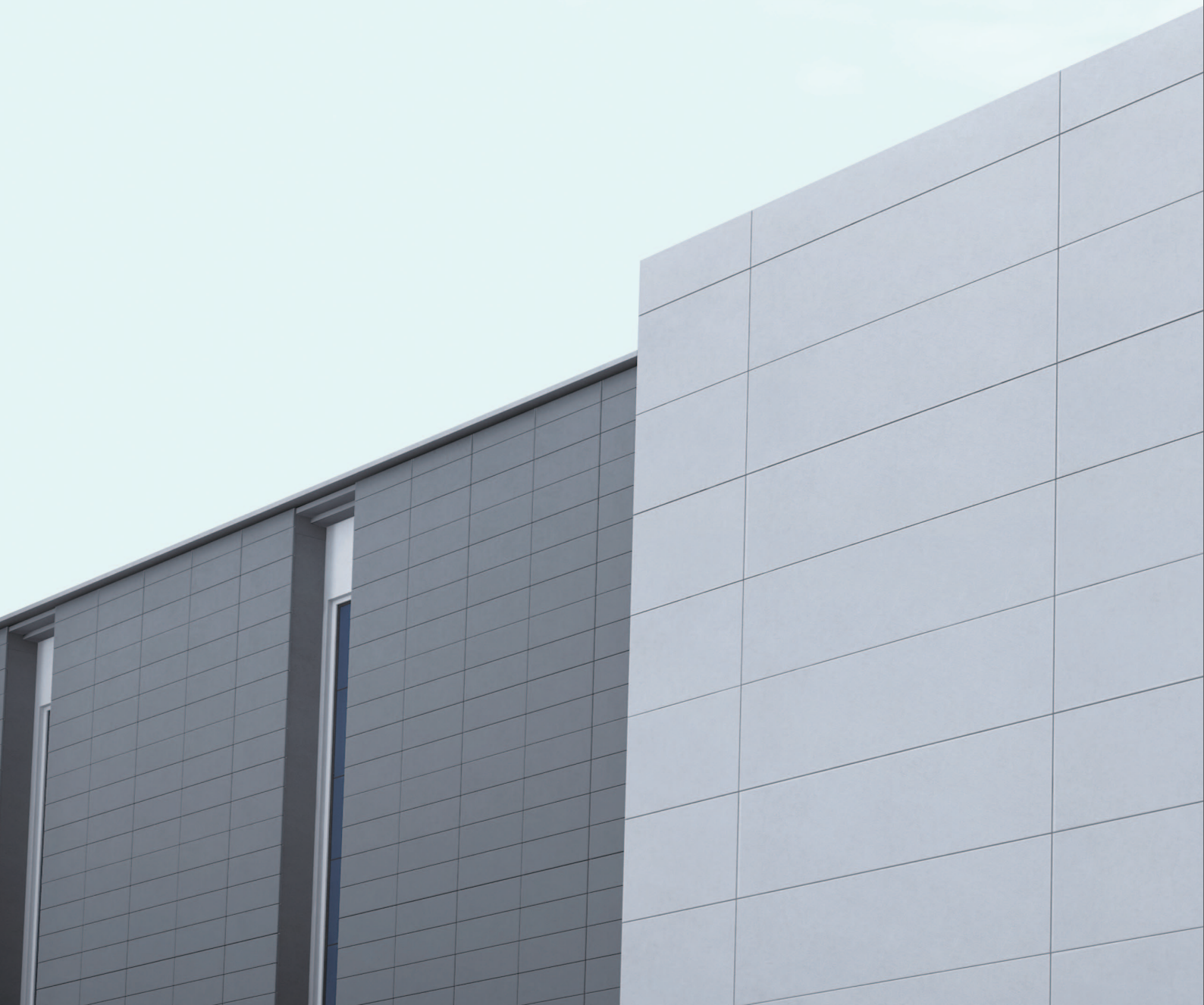
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## About Jinxu

Wenzhou JinXu Electric Co.,Ltd. Established in 2008 .JINXU is in production, sales, research, industry and trade integration in the modernization of export-oriented enterprise,located in Wenzhou,Zhejiang,China.

Our company is a professional manufacturer of MCB, RCCB,RCBO,SPD, MCCB,Isolator switch and intelligent breakers.Most of products have gained international certification, such as TUV,BV,CE and other certificate,such as ISO9001,CQC.

In the future, our company will be committed to providing our customers with higher quality products, more sincere service, more trustworthy commitment!We are determined to “more high-quality products, more competitive prices, more humanized service” service purpose, adhering to the “brand competition, quality standards, technology win the future” concept, to create high-quality products to serve the society.



שאחונ





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## People-oriented concept

Adhere to the people-centered concept.

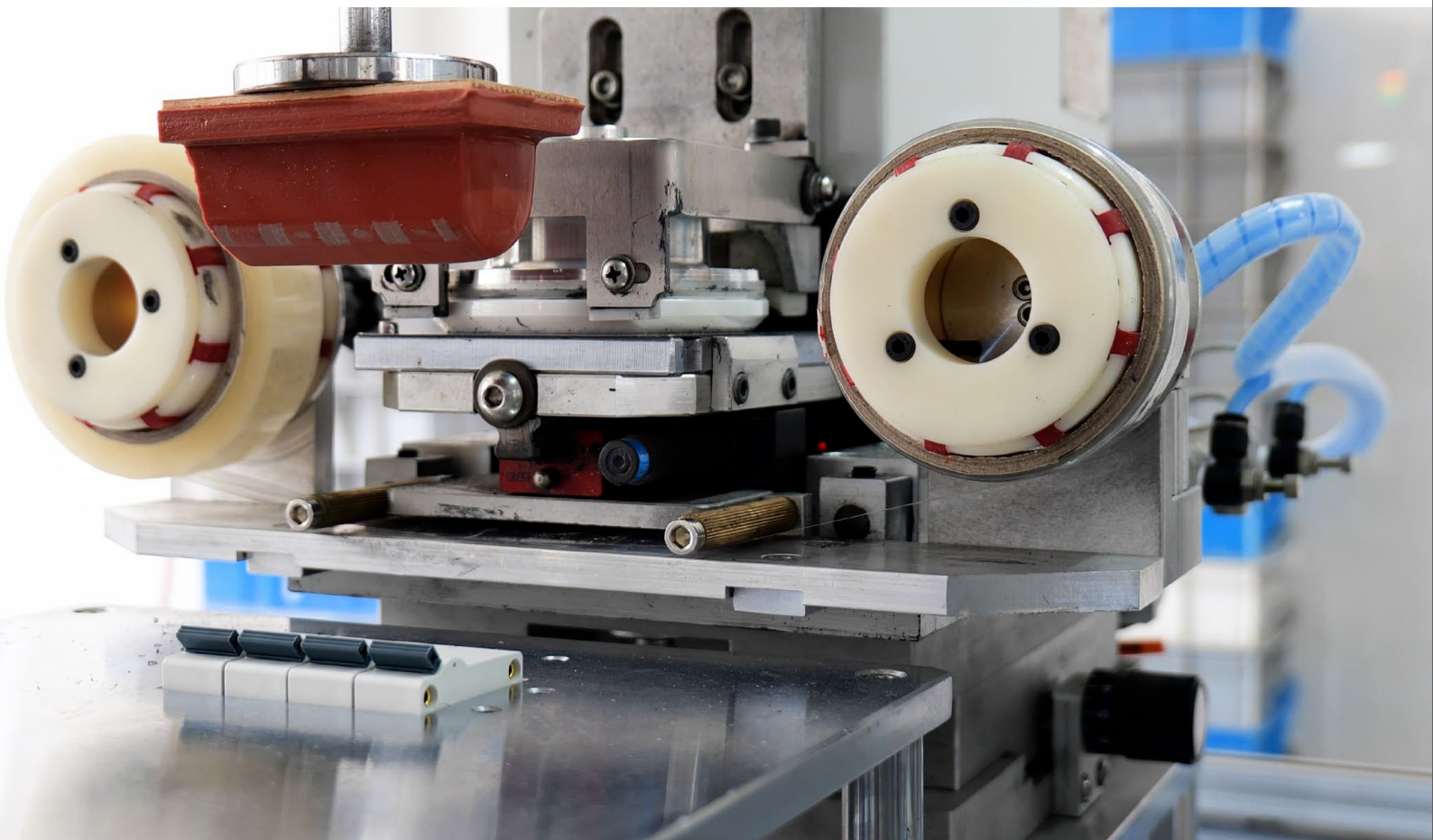
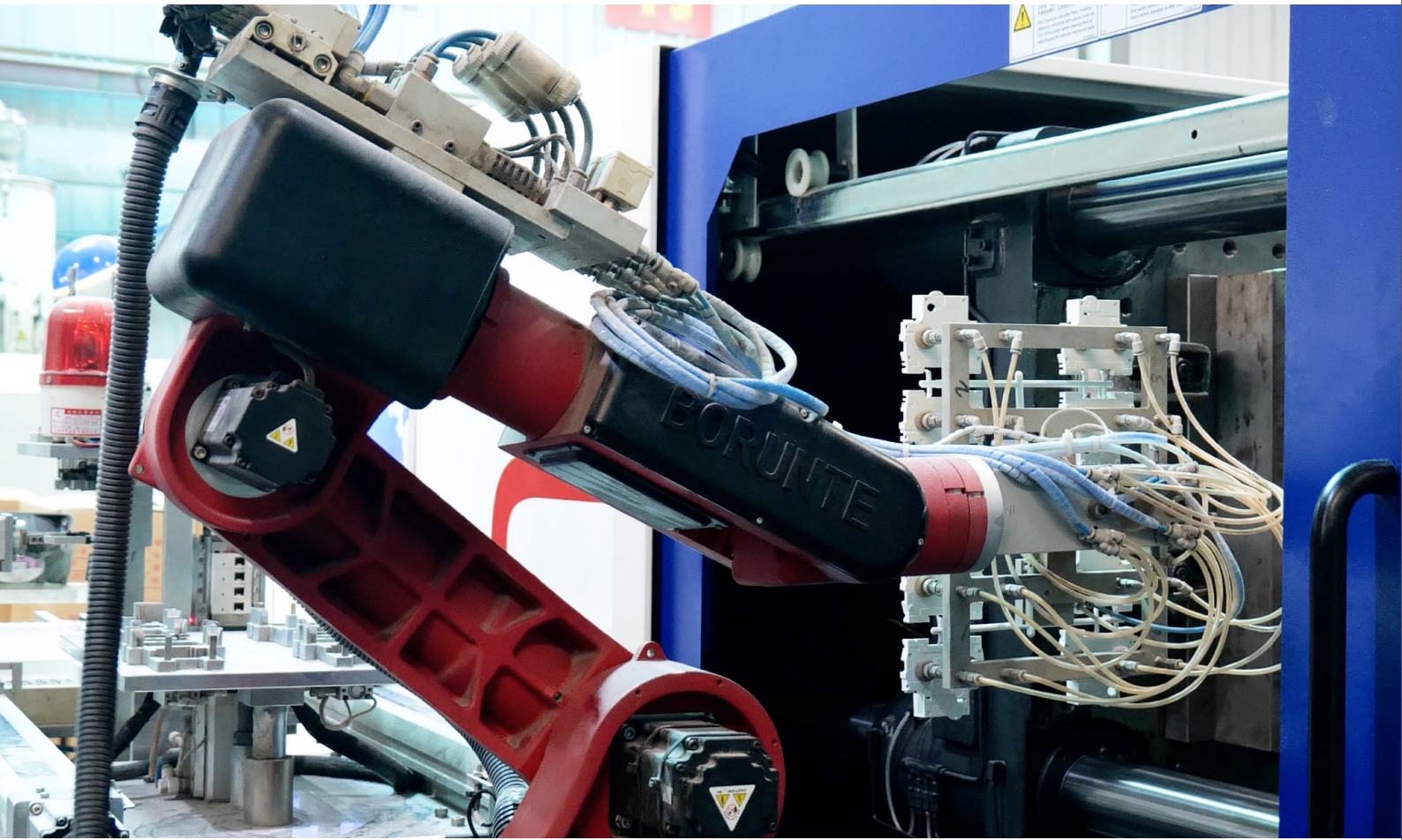
In the production development process,  
pay attention to employee level of knowledge and ability.

Planned and organized to carry out various training work,  
constantly improve learning and creation ability.

With the development of science and technology as the motive,

In the original basis of commitment to the product development and innovation.













## Sophisticated equipment

We have established a modern production center, and established a flexible production system and a scientific quality assurance system by introducing lean production, optimizing the manufacturing process, and introducing processing equipment with international advanced level.


# Enterprise Qualification



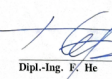
		Ref. Certif. No. <b>FR_709535/M1</b>
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME		
<b>CB TEST CERTIFICATE</b>		
Product	Circuit-breaker for overcurrent protection for household and similar installations	
Name and address of the applicant	Wenzhou Jinxu Electric Co., Ltd. No.98.Zhangzhai Road.Zhangqu Village.Liushi Town, Yueqing City, Zhejiang Province - China	
Name and address of the manufacturer	Wenzhou Jinxu Electric Co., Ltd. No.98.Zhangzhai Road.Zhangqu Village.Liushi Town, Yueqing City, Zhejiang Province - China	
Name and address of the factory	Wenzhou Jinxu Electric Co., Ltd. No.98.Zhangzhai Road.Zhangqu Village.Liushi Town, Yueqing City, Zhejiang Province - China	
Note: When more than one factory, please report on page 2	<input type="checkbox"/> Additional Information on page 2	
Ratings and principal characteristics	See Annex	
Trademark / Brand (if any)		
Customer's Testing Facility (CTF) Stage used	/	
Model / Type Ref.	JXB1-63 See Annex	
Additional information (if necessary may also be reported on page 2)	Supersedes CBTC FR_709535 dated 16/09/2020. Update the Value of rated operational voltage <input type="checkbox"/> Additional Information on page 2	
A sample of the product was tested and found to be in conformity with	IEC 60898-1:2015 +A1:2019	
As shown in the Test Report Ref. No. which forms part of this Certificate	B200053, B210008	
This CB Test Certificate is issued by the National Certification Body		
 LCIE – Laboratoire Central des Industries Electriques 33, avenue du Général Leclerc – BP8 FR 92 266 Fontenay aux Roses Cedex <a href="http://www.lcie.fr">www.lcie.fr</a> Date: 09/02/2021  Certification Officer		

1/3

		Ref. Certif. No. <b>FR_709661</b>
IEC SYSTEM FOR MUTUAL RECOGNITION OF TEST CERTIFICATES FOR ELECTRICAL EQUIPMENT (IECEE) CB SCHEME		
<b>CB TEST CERTIFICATE</b>		
Product	Residual current operated circuit-breakers without integral overcurrent protection for household and similar uses (RCCBs)	
Name and address of the applicant	Wenzhou Jinxu Electric Co., Ltd. No.98.Zhangzhai Road.Zhangqu Village.Liushi Town, Yueqing City, Zhejiang Province - China	
Name and address of the manufacturer	Wenzhou Jinxu Electric Co., Ltd. No.98.Zhangzhai Road.Zhangqu Village.Liushi Town, Yueqing City, Zhejiang Province - China	
Name and address of the factory	Wenzhou Jinxu Electric Co., Ltd. No.98.Zhangzhai Road.Zhangqu Village.Liushi Town, Yueqing City, Zhejiang Province - China	
Note: When more than one factory, please report on page 2	<input type="checkbox"/> Additional Information on page 2	
Ratings and principal characteristics	See Annex	
Trademark / Brand (if any)		
Customer's Testing Facility (CTF) Stage used	/	
Model / Type Ref.	JXL1-63 References : see Annex	
Additional information (if necessary may also be reported on page 2)	/ <input type="checkbox"/> Additional Information on page 2	
A sample of the product was tested and found to be in conformity with	IEC 61008-1:2010(ed.3) +A1:2012 +A2:2013 IEC 61008-2-1:1990(ed.1)	
As shown in the Test Report Ref. No. which forms part of this Certificate	B200054	
This CB Test Certificate is issued by the National Certification Body		
 LCIE – Laboratoire Central des Industries Electriques 33, avenue du Général Leclerc – BP8 FR 92 266 Fontenay aux Roses Cedex <a href="http://www.lcie.fr">www.lcie.fr</a> Date: 16/10/2020  Certification Officer		

1/3

 北京泰瑞特认证有限责任公司 BEIJING TIR CERTIFICATION CO.,LTD.	<h2>QUALITY MANAGEMENT SYSTEM CERTIFICATE</h2>
	Registration Number: <b>04821Q40738R3M</b> First Issued Date: 2012-10-24
This is to certify that	
Unified Social Credit Code: 91330382672028003 <b>WENZHOU JINXU ELECTRIC CO., LTD.</b>	
Registered Address: Zhangqu village, liushi town, yueqing city Production/Business Address: No.98, zhangzhai road, zhangqu village, liushi town, yueqing city, zhejiang province has implemented a quality management system for compliance with this standard:	
<b>GB/T 19001-2016/ISO 9001:2015</b>	
The quality management system for the following scope:	
Production and related management activities of small circuit breakers and leakage circuit breakers.	
Valid date: 2021-09-22 — 2024-09-21 Issued date: 2021-09-22	
 Certified information: The effectiveness of this certificate shall be validated by periodic surveillance audits of TIR for maintenance. Please scan the QR code to verify the validity of this certificate.	Signed By: 
The scope of certification covers administrative license, qualification license, compulsory certification and other qualifications required by laws and regulations, and the certificates are valid for use together.	
 Add: 7F, Building No.15, No.7, JuxinCao North RD, ChaoYang District, Beijing, China Note: Information of This Certificate in <a href="http://www.tir.org.cn">http://www.tir.org.cn</a> <a href="http://www.cnca.gov.cn">www.cnca.gov.cn</a>	 中国认可 国家认证 管理委员会 CNAS C048-M  <b>CERTIFICATION CO.,LTD.</b>

<h2>Zertifikat      Certificate</h2>		
Zertifikat Nr. / Certificate No. R 50178815	Blatt / Page 0001	
Ihr Zeichen / Client Reference L. H. Z.	Unser Zeichen / Our Reference 01-MR- 15036955 001	Ausstellungsdatum / Date of issue 25.06.2010
Genehmigungsinhaber / License Holder Wenzhou Jinxu Electric Co., Ltd. No. 2, Lane1 Shuanglong Road, Liushi Town Yueqing City, Zhejiang Province P.R. China		Fertigungsstätte / Manufacturing Plant Wenzhou Jinxu Electric Co., Ltd. No. 2, Lane1 Shuanglong Road, Liushi Town Yueqing City, Zhejiang Province P.R. China
Prüfzeichen / Test Mark 	Geprüft nach / Tested acc. to EN 61008-1:2004+A11	
Zertifiziertes Produkt / Certified Product <b>Fehlerstrom-Schutzschalter (RCCBs)</b>	Lizenzentgelte - Einheit / License Fee - Unit	
Type Designation	: JXL11      5	
Number of Poles	: 2P      4P	
Rated Operation Voltage	: AC 230V; AC 400V	
Mature of Supply	: 50/60Hz	
Rated Current	: 16/20/25/40/63A	
Rated Residual Operating Current	: 30mA; 100mA; 300mA	
Rated Making and Breaking Capacity	: 500A or 630A	
Rated Residual	: 500A or 630A	
Making and Breaking Capacity	: 500A or 630A	
Rated Conditional Short-circuit Current	: 4500A	
Rated Conditional	: 4500A	
Residual Short-circuit Current	: Functionally	
Method of Operation	: Independent of	
	: Line Voltage	
Continued on page 0002		
ANLAGE (Appendix) : 1		
Dem Zertifikat liegt unsere Prüf- und Zertifizierungsordnung zugrunde und es bestätigt die Konformität des Produktes mit den oben genannten Standards und Prüfverfahren. Zusätzliche Anforderungen in Ländern, in denen das Produkt in Verkehr gebracht werden soll, müssen zusätzlich betrachtet werden. Die Herstellung des zertifizierten Produktes wird überwacht. This certificate is based on our Testing and Certification Regulation and states the conformity of the product with the standards and testing requirements as indicated above. Any additional requirements in countries where the product is going to be marketed have to be considered additionally. The manufacturing of the certified product is subject to surveillance.		
TÜV Rheinland LGA Products GmbH - Tillystraße 2 - 90431 Nürnberg Tel: (+49)2218 06 - 13 71 e-mail: cert-val@tgv.de-tar.com Fax: (+49)2218 06 - 39 35 <a href="http://www.tar.com/safety">http://www.tar.com/safety</a>		Zertifizierungsstelle  Dipl.-Ing. E. He



BV LCIIE  
CHINA  
Number N° 2166AS02BUTT38421

## ATTESTATION of conformity with European Directives

**Product:** MCB  
**Reference:** JXBI-63  
**Issued to:** Wenzhou Jinxu Electric Co.,Ltd.  
**Address:** No.98.Zhangzhai Road,Zhangqu Village,Liushi Town,Yueqing City,Zhejiang Province,China  
**Manufacturer:** Wenzhou Jinxu Electric Co.,Ltd.

**Technical characteristics**  
Type C and B  
Ue:  
230/400V for 1P; 230V and 400V for 2P; 400V for 3P/4P  
240/415V for 1P; 240V and 415V for 2P; 415V for 3P/4P  
In=2;4;6;10;16;20;25;32;40;50;63A  
Ics=Icn=4500A for In=50A and 63A; 6000A for In=2A to 40A  
Energy limit class: 1 (according to EN 60898-1)  
Grid distance: 45mm  
Ui=500V  
Uimp=4kV  
Screw diameter of terminal=4,9mm

The submitted sample of the above equipment has been tested for **CE** marking according to following European Directive and following standards:

### Low Voltage Directive 2014/35/EU

Standards	Report number	Report date
EN 60898-1:2019	B210008	2021-01-18

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements in the specified European Directive

This verification does not imply assessment of the production of the product  
The **CE** marking may be affixed if all relevant and effective European Directives with **CE** are applicable

Shanghai (P.R. China), February 18th, 2021.

Charlie CHEN  
Product Line Manager



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LCIE CHINA 必维欧亚电气技术咨询服务有限公司(上海)有限公司  
Building 4, No. 518, Xin Zhuan Road, Caohejing Songjiang High-Tech Park, Shanghai P.R.C (201612)  
Tel: +86 21 6195 7000 Fax: +86 21 6195 7001  
Email: [contact@cn.bureauveritas.com](mailto:contact@cn.bureauveritas.com)  
Version 3/2016.02.19



BV LCIIE  
CHINA  
Number N° 2066AS10BUTT37136

## ATTESTATION of conformity with European Directives

**Product:** RCCB  
**Reference:** JXL1-63  
**Issued to:** Wenzhou Jinxu Electric Co.,Ltd.  
**Address:** No.98.Zhangzhai Road,Zhangqu Village,Liushi Town,Yueqing City,Zhejiang Province,China  
**Manufacturer:** Wenzhou Jinxu Electric Co.,Ltd.

**Technical characteristics**  
2P(1P+N) and 4P(3P+N) Neutral on right  
Type AC; Type A  
In=16A; 25A; 32A; 40A; 63A  
Icn=Iac=6000A  
Im=Iam=500A for In:16A; 25A; 32A; 40A;10In for In:63A  
IAn=30mA;100mA;300mA  
Grid distance = 45mm  
Ui= 500V  
Uimp=4kV  
Material group=IIa  
Screw diameter=5,9mm  
50/60Hz

The submitted sample of the above equipment has been tested for **CE** marking according to following European Directive and following standards:

### Low Voltage Directive 2014/35/EU

Standards	Report number	Report date
EN 61008-1:2012+A1:2014+A2:2014+A11:2015 +A12:2017 EN 61008-2-1:1994+A11:1998	B200054	2020-09-15

The referred test report(s) show that the product complies with standard(s) recognized as giving presumption of compliance with the essential requirements in the specified European Directive

This verification does not imply assessment of the production of the product  
The **CE** marking may be affixed if all relevant and effective European Directives with **CE** are applicable

Shanghai (P.R. China), October 28th, 2020.

Charlie CHEN  
Product Line Manager



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LCIE CHINA 必维欧亚电气技术咨询服务有限公司(上海)有限公司  
Building 4, No. 518, Xin Zhuan Road, Caohejing Songjiang High-Tech Park, Shanghai P.R.C (201612)  
Tel: +86 21 6195 7000 Fax: +86 21 6195 7001  
Email: [contact@cn.bureauveritas.com](mailto:contact@cn.bureauveritas.com)  
Version 3/2016.02.19

## CERTIFICATE OF PRODUCT CERTIFICATION TYPE II CQC CERTIFICATION

CERTIFICATE NO.: CQC2012010307547044

Valid from: Jun.10,2021

Valid until: Jun.10,2031

**NAME AND REGISTERED ADDRESS OF THE APPLICANT** Wenzhou Jinxu Electric Co.,Ltd.  
Zhangqu Village, Liushi Town, Yueqing City Zhejiang Province

**NAME AND REGISTERED ADDRESS OF THE MANUFACTURER** Wenzhou Jinxu Electric Co.,Ltd.  
Zhangqu Village, Liushi Town, Yueqing City Zhejiang Province

**NAME AND LOCATION OF THE FACTORY** Wenzhou Jinxu Electric Co.,Ltd.  
No.98.Zhangzhai Road,Zhangqu Village,Liushi Town,Yueqing City Zhejiang Province

**PRODUCT NAME, MODEL AND SPECIFICATION** MINIMATURE CIRCUIT BREAKER  
JXB1-63JXB2-63;  
Ue:AC230/400V(1P)/AC400V(2P,3P,4P);In:6A,10A,16A,20A,25A,32A,40A,50A,63A;额定脱扣电流  
型:IC=Icn=3000A(6A-63A);极数:1P,2P,3P,4P

**THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS** GB/T 10963.1-2020

**TYPE OF CERTIFICATION SCHEMES** Type Testing of Product + Initial Factory Inspection + Follow up Factory Inspection

This is to certify that the above mentioned product(s) complies with the requirements of certification rules of CQC12-000001-2020.  
Date of original issued: Apr.03,2020  
The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

The certificate information is available through the QR code below or CNCA's website: [www.cnca.gov.cn](http://www.cnca.gov.cn)



SIGN BY SIGNATURE



CHINA QUALITY CERTIFICATION CENTRE



<http://www.cqc.com.cn> Section 9, No.188, Nanshihuan Xi lu, Beijing 100070 P.R.China Tel: +86 10 83886666

C(2) 0066879

## CERTIFICATE OF PRODUCT CERTIFICATION TYPE II CQC CERTIFICATION

CERTIFICATE NO.: CQC2012010307545986

Valid from: Jun.25,2021

Valid until: Jun.25,2031

**NAME AND REGISTERED ADDRESS OF THE APPLICANT** Wenzhou Jinxu Electric Co.,Ltd.  
Zhangqu Village, Liushi Town, Yueqing City Zhejiang Province

**NAME AND REGISTERED ADDRESS OF THE MANUFACTURER** Wenzhou Jinxu Electric Co.,Ltd.  
Zhangqu Village, Liushi Town, Yueqing City Zhejiang Province

**NAME AND LOCATION OF THE FACTORY** Wenzhou Jinxu Electric Co.,Ltd.  
No.98.Zhangzhai Road,Zhangqu Village,Liushi Town,Yueqing City Zhejiang Province

**PRODUCT NAME, MODEL AND SPECIFICATION** Residual Current Operated Circuit Breakers  
JXB1LE-63JXB2LE-63;  
Ue:AC230V(1P+N,2P)/AC400V(3P+N,4P);In:6A,10A,16A,20A,25A,32A,40A,50A,63A;额定脱扣电流  
型:IC=Icn=3000A;In=30mA;AC;极数:1P+N,2P;额定分断能力:10kA;Icu=Ics=2000A;极数:1P+N;额定短路  
通断能力:3P+N;额定短路分断能力:4P;2P+N;3P+N;N;额定通断能力:不适用于短路

**THE STANDARDS AND TECHNICAL REQUIREMENTS FOR THE PRODUCTS** GB/T 16917.1-2014/GB/T 16917.22-2008

**TYPE OF CERTIFICATION SCHEMES** Type Testing of Product + Initial Factory Inspection + Follow up Factory Inspection

This is to certify that the above mentioned product(s) complies with the requirements of certification rules of CQC12-000001-2020.  
Date of original issued: Apr.03,2020  
The validity of the certificate is subject to positive result of the regular follow up inspection by issuing certification body until the expiry date.

The certificate information is available through the QR code below or CNCA's website: [www.cnca.gov.cn](http://www.cnca.gov.cn)



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<http://www.cqc.com.cn> Section 9, No.188, Nanshihuan Xi lu, Beijing 100070 P.R.China Tel: +86 10 83886666

C(2) 0075113



# Product Contents

	<p>03</p> <p><b>JXB8-63 Series</b> Miniature Circuit Breaker</p>		<p>04</p> <p><b>JXH8-125 Series</b> Isolating Switch</p>		<p>06</p> <p><b>JXC45D Series</b> Signal Lamp</p>
	<p>07</p> <p><b>JXZE Series</b> Modular Bell</p>		<p>08</p> <p><b>JXB8LE-63 Series</b> Residual Current Circuit Breaker With Over Current Protection</p>		<p>10</p> <p><b>JXB8LE-63 Series</b> Residual Current Circuit Breaker With Over Current Protection(36mm)</p>
	<p>11</p> <p><b>JXL8-63 Series</b> Residual Current Circuit Breaker</p>		<p>14</p> <p><b>JXREC Series</b> Residual Current Circuit Breaker</p>		<p>17</p> <p><b>JXL2-63B Series</b> Type B Residual Current Circuit Breaker</p>
	<p>19</p> <p><b>JX-S Series</b> Digital Display Socket Tester</p>		<p>21</p> <p><b>JXB2-63 Series</b> Miniature Circuit Breaker</p>		<p>22</p> <p><b>JXB1-125 Series</b> Miniature Circuit Breaker</p>
	<p>23</p> <p><b>JXB1LE-125 Series</b> Earth Leakage Circuit Breaker</p>		<p>25</p> <p><b>JXM1 Series</b> Moulded Case Circuit Breaker</p>		<p>29</p> <p><b>JXW45 Series</b> Intelligent Circuit Breaker</p>





# JINXU ELECTRIC

Low voltage appliance  
Miniature circuit breaker  
Residual current circuit breaker  
Moulded case type circuit breaker  
Intelligent universal type circuit breaker



# JXB8-63 Series Miniature Circuit Breaker

## Application

JXB8-63 is applicable to a line of AC 50/60Hz, 230V in single pole, 400V in double, three, four poles for protecting overload and short circuit, and rated current up to 63A. It can also be used for infrequent line conversion under the normal condition. The breaker is applicable to lighting distribution system in industrial enterprise, commercially district, high-rise building and dwelling house. It conforms with the standards of IEC 60898-1.

## Main Technical Parameter

Type	JXB8-63			
Pole	1P		2P, 3P, 4P	
Rated current (A)	6,10,16,20,25,32,40,50,63			
Rated voltage(V)	230		400	
Ambient temperature	-5°C~+40°C			
Type of instantaneous release	C	D	C	D
Rated short circuit breaking capacity(kA)	2-40A: 6 50-63A: 4.5	4	2-40A: 6 50-63A: 4.5	4

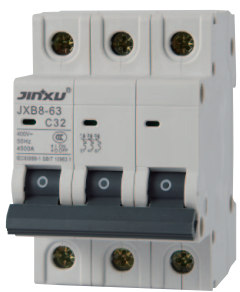
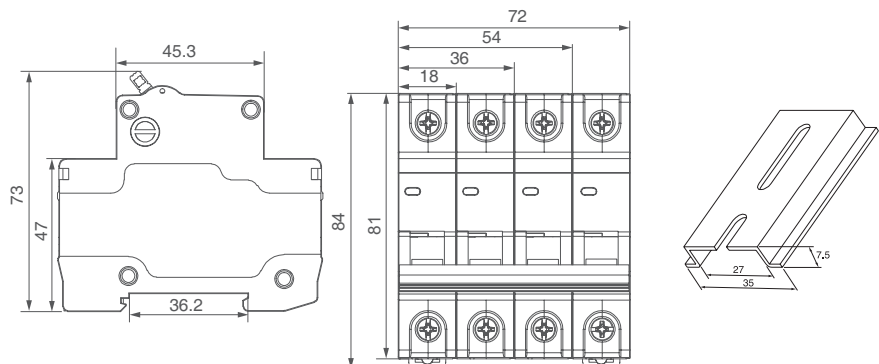
## Applicable Conducting Wire

Rated current(A)	Nominal cross section of wire mm <sup>2</sup>
1-6A	1
10A	1.5
16,20A	2.5
25A	4
32A	6
40,50A	10
63A	16

## The Over-current Protection Property

Ambient temperature	Initial status	Test current	Test time	Expected result	Note
30±2°C	Cold position	1.13In	t ≥ 1h	Non-release	-
	Carried out immediately after previous test	1.45In	t < 1h	Release	-
	Cold position	2.55In	1s < t < 60s (In ≤ 32A)	Release	Current smoothly rises to specified value within 5s
	Cold position	2.55In	1s < t < 120s (In > 32A)	Release	
-5~+40°C	Cold position	3In	t ≤ 0.1s	Non-release	Type B
	Cold position	5In	t < 0.1s	Release	Type B
	Cold position	5In	t ≥ 0.1s	Non-release	Type C
	Cold position	10In	t < 0.1s	Release	Type C
	Cold position	10In	t ≥ 0.1s	Non-release	Type D
	Cold position	20In	t < 0.1s	Release	Type D

## Dimension

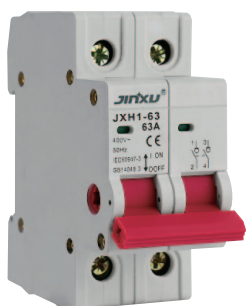




# JXH8-125 Series Isolating Switch



(Without indicator)



(With indicator)

## Application

JXH8-125 combines the following functions: .

- Break and connect the circuit with load
- Isolating function

It's mainly suitable for low voltage terminal electrical distribution in the residential houses, buildings, etc.

## Standards & Certificates

- Comply with standard IEC60947 .3

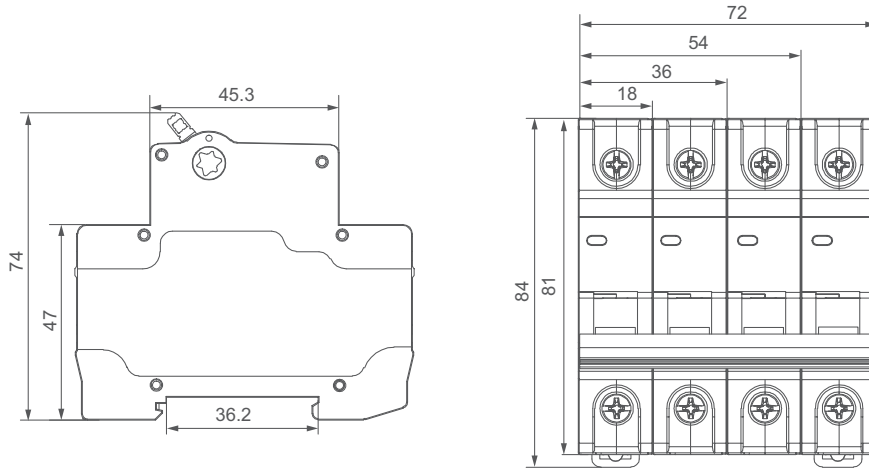
Pole	Rated voltage(V)	Rated current(A)	Product No.
1P	230	20	JXH8-120
		25	JXH8-125
		32	JXH8-132
		40	JXH8-140
		63	JXH8-163
		80	JXH8-180
		100	JXH8-1100
		125	JXH8-1125
2P	400	20	JXH8-220
		25	JXH8-225
		32	JXH8-232
		40	JXH8-240
		63	JXH8-263
		80	JXH8-280
		100	JXH8-2100
		125	JXH8-2125
3P	400	20	JXH8-320
		25	JXH8-325
		32	JXH8-332
		40	JXH8-340
		63	JXH8-363
		80	JXH8-380
		100	JXH8-3100
		125	JXH8-3125
4P	400	20	JXH8-420
		25	JXH8-425
		32	JXH8-432
		40	JXH8-440
		63	JXH8-463
		80	JXH8-480
		100	JXH8-4100
		125	JXH8-4125

## Structural Features

- The enclosure is made of special fire resistant and high-strength plastic, so it is featured in high impact resistance and light weight;
- Featured in good contact reliability, it is suitable for din rail installation and it can be used together with other modular terminal apparatus.

# JXH8-125 Series Isolating Switch

## Outline & Installation Dimension(mm)



## Main Technical Parameter

Pole		1P 2P 3P 4P
Rated current	In(A)	20 25 32 40 63 80 100 125
Rated operating voltage	Ue	230V(1P) 400V(2P, 3P, 4P)
Rated insulating voltage	Ui	500V
Rated short time withstand current	Icw	12In 1s
Rated short time breaking capability	Icm	20In 0.05s
Usage category		AC-22A
Mechanical life		8500 times
Electrical life		1500 times
Operation frequency		120 time/h
Grade of protection		IP20
Installation mode		Embedded type din rail mounting
Connection type		The terminal block or busbar with clamp
Connection capability		Allow the wire under 50mm <sup>2</sup> to connect with
Tightening torque values		3.5N·m
Weight		1P 0.0678kg
		2P 0.1352kg
		3P 0.203kg
		4P 0.2704kg

## Working & Installation Conditions

Ambient temperature	-5°C ~ +40°C, daily mean temperature ≤ 35°C
Altitude	≤ 2,000m
Air condition	No explosive hazard medium, no enough gas and dust to corrode metal and damage insulation
Relative humidity	When the maximum temperature is +40°C, relative humidity of air doesn't exceed 50%. Higher relative humidity may be allowed at lower temperature. For example, relative humidity reaches 90% at 20°C. Special measures should be taken to possible condensation incurred by the change of temperature
Pollution grade	Grade III
Installation category	Category II&III



## Application

The Modular Signal Lamp is applicable to circuit with rated voltage 230V~and frequency 50/60Hz for visual indication and signaling.It confirms with the standard of IEC 60947-5-1.

## Construction and Feature

- Minimum power consumption
- Compact design in modular size
- Easy installation

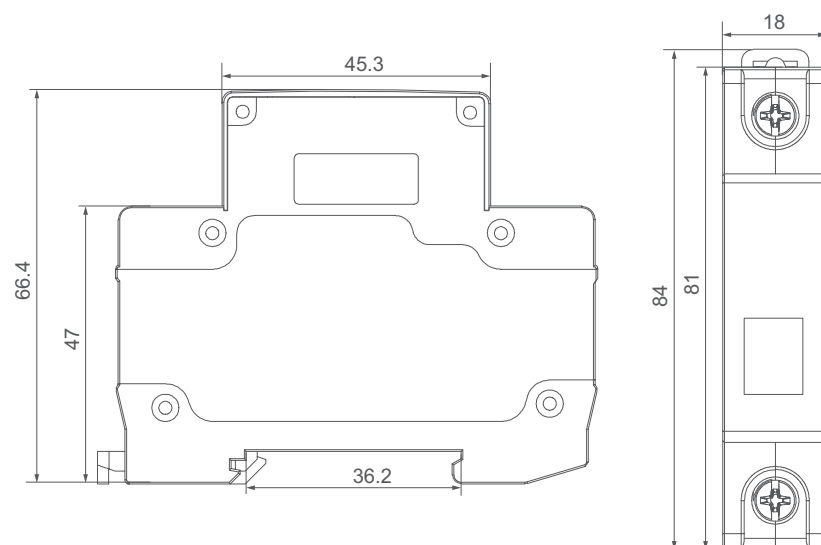
## Technical Data

- Rated voltage: 230V AC
- Rated frequency: 50/60Hz
- Colour: red, green, yellow,blue,white
- Connection terminal: pillar terminal with clamp
- Connection capacity: rigid conductor 16 mm<sup>2</sup>
- Installation:
  - On symmetrical DIN rail 35 mm
  - Panel mounting
- Max power: 0.6W
- Illumination: LED
- Service duration: 30,000 hours
- Ambient temperature: -5°C~+40°C, daily average temperature ≤ 35°C
- Altitude: the altitude of the installation place is less than 2,000m

## Installation & Operation

- While installation, check if the rated voltage of the signal lamp meets operating requirements.
- While installation, the wire should be tightened and prevent from loosing or falling off, and the copper wire can't be bare and stretch out of the terminal.
- The indication lamp should be protected against rain and water during working.

## Outline & Installation Dimension(mm)





### General Description

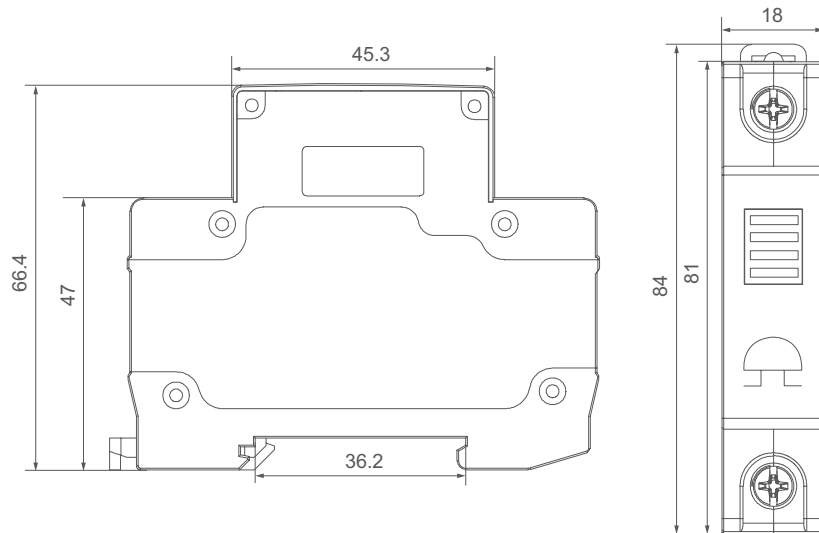
Modular Devices Bell, the product is of safety insulating type. Preferable components are used and secure high performances to the product: 0.5 quality silicon steel is adopted for less non-load consumption and less noise; Special framework of the coil bobbin has high insulation level; Well designed terminal case ensures easy and firm terminal connection. The functioning part is installed in the moulded case after being insulated.

- Temperature rising is less than 30° C with load less than 8VA;
- Output voltage has high accuracy with tolerance within 3% of rated output voltage;
- The product can withstand over-load up to 25% within 24 hours.

TYPE	Un(V)	Packing (pcs)	Code NO.
Bell JXZE220	230	12/240	3602260520
Buzzer JXZE220	230	12/240	3602260520

Max. continuous duty	≤ 30 minutes
Connection capacity	6mm <sup>2</sup>
Rated impulse withstand voltage Uimp	5000V
Dielectric test voltage at ind.Freq for 1 min	2.8kV
Pollution degree	2
Protection class	IP20
Standard mounting	35mm DIN rail
Ambient temperature	-5°C to +40°C
Storage temperature	-25°C to +70°C

### Overall and Installation Dimension



# JXB8LE-63 Series Residual Current Circuit Breaker With Over Current Protection

## Application

JXB8LE-63 series residual current circuit breaker are mainly used in circuit, of AC50/60Hz, rated voltage up to 230V, rated current up to 63A for protection of personal electric shock hazard with overload protection and short circuit protection,also can infrequently switchover electric equipment and illuminating line under normal conditions, especially suitable for industrial and commercial lighting distribution system.

Conformity with the standard IEC61009-1.

## Normal Operation Conditions

- Ambient air temperature  
Ambient air temperature ranges from -5°C to 40°C ,not exceeding 35°C averagely in 24 hours.
- Location:Installation location can not exceed 2000 meters above sea level
- Air conditions  
Relative humidity in the installation place can not exceed 50% when the air reaches the highest temperature 40,the average minimum temperature when it is the wettest can not exceed 20°C. Relative humidity not exceed 90%.
- Installing categories: Class II Class III .
- Installation Pollution Grade: grade II .
- Installing type: Mounted by standard rail track
- Installing condition: Installation location of the external magnetic field strength should not be in any direction to magnetic field strength of more than 5 times.
- Wiring: Tighten the screws to compress the wire.

## Classification

- Rated current:6,10,16,20, 25, 32, 40, 50, 63(A)
- Poles: 1P+N,2P,3P,3P+N,4P
- Type of instantaneous release: B, C, D.

## Construction Characteristic & Operating Principle

Pull the handle of the leakage circuit breakers to the ON position, through mechanical contacts to static contact agencies to promote reliable contact with the circuit. When the circuit with overload fault, overload current bimetal bend and push the latch locking mechanism makes the mechanical reset, the moving contacts quickly left the static contact,so that to achieve sub-line functions; when short-circuit fault occurs , the short-circuit current make instantaneous release action, pushing the lock mandrel core mechanical action to achieve the lock breaking function;

when leakage and electric shock occurs, the signal from zero sequence sensor makes the thyristor akage release core action 1putter push the circuit breaker trip to cut off the power leakage circuit breaker a short time, thereby achieve leakage protection.

## Structural Features

Small, tight structure, price is better than similar products  
Housing and some functional parts are made of high fire-resistant,heat resistant,impact resistant material. Directly with the zero wire installation,avoid the electric shock hazard which caused by zero line connection errors.

- Using the latest circuit design and high-performance electronic components, has strong ability to withstand when the impact of current and surge of over-voltage .
- Mounted by standard rail track, convenient and save time.



# JXB8LE-63 Series Residual Current Circuit Breaker With Over Current Protection

## Main Technical Parameter

Type	JXB8LE-63		
Pole	1P+N, 2P	3P, 3P+N, 4P	
Rated current (A)	6,10,16,20,25,32,40,50,63		
Rated voltage (V)	230	400	
Rated short circuit breaking capacity $I_{cn}(kA)$	6-32A :6 / 40-63: 4.5		
Rated residual making/breaking capacity $I_{\Delta m}(A)$	2000		
Rated residual action current $I_{\Delta n}(A)$	0.03,0.05,0.1,0.3		
Rated residual non-action current $I_{\Delta no}(A)$	0.5 $I_{\Delta n}$		

## Applicable Conducting Wire

Rated current(A)	1-6A	10A	16,20A	25A	32A	40,50A	63A
Norminal cross section of wire $mm^2$	1	1.5	2.5	4	6	10	16

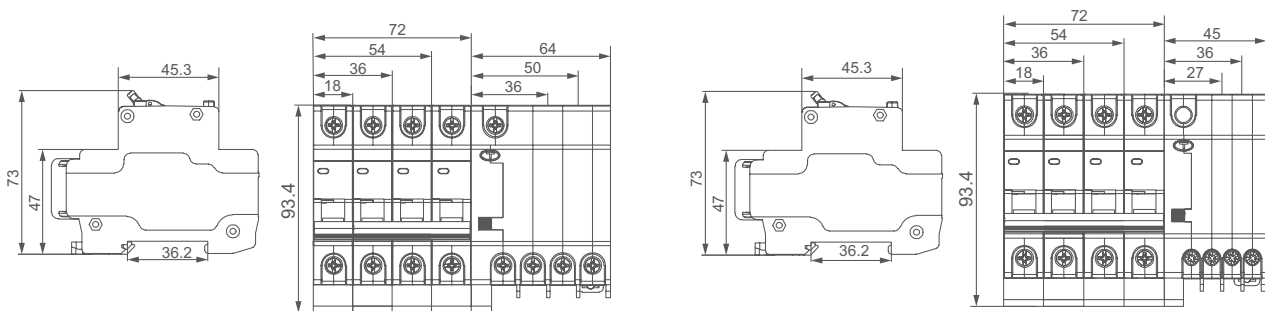
## Residual Current Breaking Time

$I_n(A)$	$I_{\Delta n}(A)$	Breaking time(s) when equals to rating following					
		$I_{\Delta n}$	$2I_{\Delta n}$	$5I_{\Delta n}$	5,10,20,50,100,200,500 <sup>a</sup> (A)	$I_{\Delta t}^b$	
6-63	0.03, 0.05, 0.1, 0.3	0.1	0.06	0.04	0.04		0.04

## The Over-current Protection Property

Ambient temperature	Initial status	Test current	Test time	Expected result	Note
30±2°C	Cold position	1.13 $I_n$	$t \geq 1h$	Non-release	-
	Carried out immediately after previous test	1.45 $I_n$	$t < 1h$	Release	-
	Cold position	2.55 $I_n$	1s< $t$ <60s ( $I_n \leq 32A$ )	Release	Current smoothly rises to specified value within 5s
	Cold position	2.55 $I_n$	1s< $t$ <120s ( $I_n > 32A$ )	Release	
-5~+40°C	Cold position	3 $I_n$	$t \leq 0.1s$	Non-release	Type B
	Cold position	5 $I_n$	$t < 0.1s$	Release	Type B
	Cold position	5 $I_n$	$t \geq 0.1s$	Non-release	Type C
	Cold position	10 $I_n$	$t < 0.1s$	Release	Type C
	Cold position	10 $I_n$	$t \geq 0.1s$	Non-release	Type D
	Cold position	20 $I_n$	$t < 0.1s$	Release	Type D

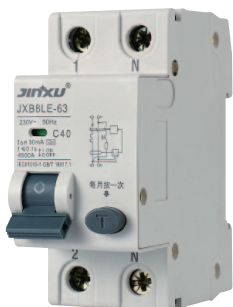
## Dimension



JXB8LE-63 large shell

JXB8LE-63 small shell

# Residual Current Circuit Breaker With Over Current Protection (36mm)



## Main Technical Parameter

- Main technical parameter (see table 1)
- Time-current character (see table 2)
- Residual current protection character
  - Rated residual operating current  $I_{on}$ :30mA,50mA
  - Rated residual non-operating current  $I_{ono}$ :15mA,25mA
  - Rated residual making and breaking capability  $I_{om}$ :2000A
  - Residual current breaking time(see table 3)
- Mechanical/ Electric lifetime (times)
  - Electric lifetime:2000;    ○ Mechanical life:4000
- Nominal cross-section of wire (see table 4)
- Standard:IEC 61009-1

Table 1

Frame rated current $I_{nm}$ A	Rated current $I_n$ A	Rated voltage V	Breaking capacity of rated short-circuit		Instantaneous release type
			$I_{cs}(A)$	$COS\Phi$	
63	6,10,16,20,25,32,40,50,63	230	6000	0.65-0.70	C

Table 2

Ambient temperature	Initial status	Test current	Test time	Expected result	Note
$30\pm 2^{\circ}C$	Cold position	$1.13I_n$	$t \geq 1h$	Non-release	-
	Carried out immediately after previous test	$1.45I_n$	$t < 1h$	Release	-
	Cold position	$2.55I_n$	$1s < t < 60s$ ( $I_n \leq 32A$ )	Release	Current smoothly rises to specified value within 5s
	Cold position	$2.55I_n$	$1s < t < 120s$ ( $I_n > 32A$ )	Release	
$-5\sim +40^{\circ}C$	Cold position	$3I_n$	$t \leq 0.1s$	Non-release	Type B
	Cold position	$5I_n$	$t < 0.1s$	Release	Type B
	Cold position	$5I_n$	$t \geq 0.1s$	Non-release	Type C
	Cold position	$10I_n$	$t < 0.1s$	Release	Type C
	Cold position	$10I_n$	$t \geq 0.1s$	Non-release	Type D
	Cold position	$20I_n$	$t < 0.1s$	Release	Type D

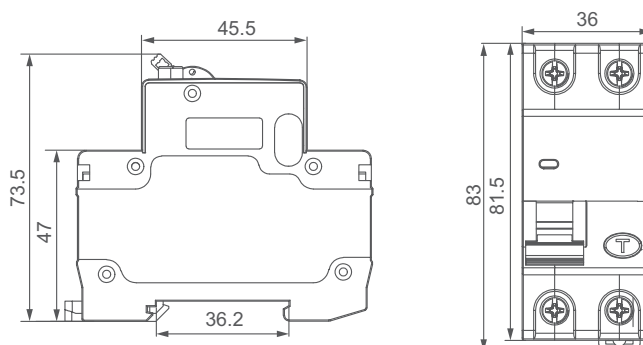
Table 3

$I_n(A)$	$I_{\Delta n}(A)$	Residual current ( $i_n$ ) is equal to the breaking time (s) at the following corresponding value		
		$I_{\Delta n}$	$2I_{\Delta n}$	250mA
6-63	0.03	0.1	0.05	0.04

Table 4

Rated current $I_n(A)$	$I_n \leq 6$	$6 < I_n \leq 6$	$13 < I_n \leq 20$	$20 < I_n \leq 25$	$25 < I_n \leq 32$	$32 < I_n \leq 50$
Nominal cross-section of wire( $mm^2$ )	1	1.5	2.5	4	6	10

## Outline & Installation Dimension



# JXL8-63 Series Residual Current Circuit Breaker



## Security Warning

- This product must be installed professionally.
- Operation with wet hands is strictly prohibited in case of electric shock hazard
- The products don't have the dust-proof function with protection class IP20, please install in a sealed box when they are used in a dusty environment.
- The product can't protect the risk of electric shock that caused by two lines contact protection circuit meantime.
- Residual current protection features is tested and adjusted by the manufacturer, users can not adjust the product at random during usage.
- When installing, inlet wire connect from above side, outlet wire connect from below side. Polyphase circuit wiring should pay attention to the phase sequence. Tighten the screws after wires into connection hole, the torque of Tighten the conductor at least 2.5N·m to make the wire shall not loose, pull out, bare copper wire head can't dew outside the terminal.
- RCCB must not be wetted or soaked by rain, snow or water during transportation, storage and usage.

## Application

- Main usage  
JXL8-63 residual current operated circuit-breaker conformity with the standard IEC61008-1 It can be used in the circuits of AC 50/ 60HZ, rated voltage up to 400V, rated current up to 63A for protection of personal electric shock hazard and electric equipment and for unfrequent switchover of circuits under normal conditions.
- Application scope  
Suitable for used at industry, commercial building, residential house and other similar place.

## Normal Operation Conditions

- Ambient air temperature  
Ambient air temperature ranges from -5°C to 40°C, not exceeding 35°C averagely in 24 hours.
- Location: installation location can not exceed 2000 meters above sea level
- Installation Pollution Grade : grade II.
- Air conditions  
Relative humidity in the installation place can not exceed 50% when the air reaches the highest temperature 40°C, the average minimum temperature when it is the wettest can not exceed 25°C. Relative humidity not exceed 90%.
- Installing categories: Class III
- Installation Conditions  
Magnetic field outside the installation place can not exceed 5 times of the site of terrestrial magnetism in all direction. Normally speaking, RCCB should be mounted vertically. There should be no notable impact and vibration in the installation place.  
Mounted by TH35-7.5 standard rail track
- Connection  
It can be connected with screws, the torque of tighten the conductor is 2.5N·m
- Connecting wire  
Choose according to table 1

table1

Rated current I <sub>n</sub> (A)	Nominal cross-section of wire(mm)
≤ 10	1.5
10~20	2.5
20~25	4
25~32	6
32~50	10
50~63	16



# JXL8-63 Series Residual Current Circuit Breaker

## Main Technical Parameters

- Classification
  - According to number of poles 2 poles, 4 poles
  - According to type of instantaneous release AC type, A type

Poles	2P,4P
Rated voltage Un (V)	2P/230, 4P/400
Rated current In(A)	25,40,63
Case class rated current Inm(A)	63
Rated residual action current IΔn(A)	0.03,0.1,0.3
Rated residual non-action current IΔno(A)	0.03,0.1,0.3
Rated making/breaking capacity IΔm(A)	In=25,40/500,In=63/630
Rated limited short-circuit current Inc(A)	6000
Rated limited residual short-circuit current IΔc(A)	6000
Rated residual current breaking time	See table 2

Table 2

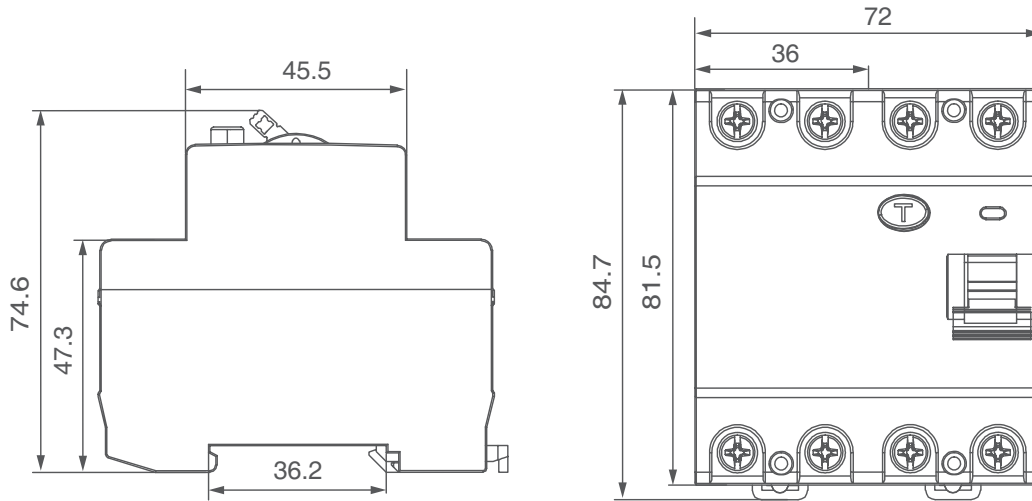
In(A)	IΔn(A)	Residual current (In) is equal to the switch-off time (s) at the following corresponding value			
25,40,63	0.03,0.1,0.3	IΔn(A)	2IΔn(A)	5IΔn(A)	10A, 20A, 50A, 100A, 200A, 500A
63		0.1	0.08	0.04	

a: IΔnS0.03A, 0.25A can Instead of 5IΔn

- Mechanical/Electric lifetime (times)
  - Electric lifetime (times):2000,  $\cos \phi = 0.85 \sim 9$
  - Mechanical life (times):2000
  - Operating frequency:120times/hour
- Rated insulation impulse withstand voltage
  - When poles are connected to each other, the peak value of the impulse withstand-voltage between each poles and the neutral pole is 6000V;
  - When each pole is connected to the neutral pole, the peak value of the impulse withstand-voltage between poles and the metal support is 8000V;
- The product can withstand peak impulse current of 200A and peak surge over-voltage 2.5Un, and under such a situation, the protection switch can act correctly without mis-operation.

# JXL8-63 Series Residual Current Circuit Breaker

## Outline and Mounting Dimension (mm)



## Installation and Maintenance

### Installation

- Confirm the marks of the RCCB and the operating conditions is matched before Installation
- Mounted on rail track, push up the retainer to make the RCCB fixed on the rail track. When need to remove the RCCB, just pull down the retainer.
- When the handle moving up and displaying symbol ION, the circuit is connected. When the handle moving down and displaying symbol I.OFF, the circuit is disconnected.
- Manual operation with the RCCB several times to confirm its flexible and reliable before power on.
- Test the button of the RCCB several times to confirm its flexible and reliable after power on.

### Maintenance

- After running for a period of time, the RCCB should be inspected monthly, press the test button in power on state to confirm the residual current protective properties is reliable or not.
- RCCB must not be wetted or soaked by rain, snow or water during transportation, storage and usage.

## The Common Faults and Treatment

Common faults	The main reason analysis	Processing
Handle not closed	Big residual current exist in the circuit	Check the circuit, to exclude leakage fault, then run again
Switch action frequency	Residual current among the action scope of the circuit	Check the circuit, to exclude leakage fault, then run again or choose RCCB with bigger rated current or choose RCCB with bigger rated current
The RCCB no action when press the test button	Terminals with bad contact or quality problem	Tighten the screws or just replace a new one
Terminals overtemperature	Terminals not tightened or the cross-section of wire is small	Tighten the screws or just replace a wire with suitable cross-section



## Product Description

The JXREC recloser is a new design of intelligent electric protector and recloser, it breaks through the traditional electricity protected mode, use the mechanical intelligent control principle, combined with the high-tech electronic technology and developed a new generation of intelligent electric protection switch. With the use of safety control technology and electromagnetic ID type RCCB, under the circuit leakage fault, after the circuit breaker tripping off, the automatic closing mechanism will given 6 different time periods to tripping and closing automatically, achieve a unmanned automatic switching on and off, it requires no human intervention and fundamental solve the problem of power failure cause by electrical fault tripping or malfunction tripping.It confirms standard of IEC 61008-1.

## Product Performance and Specifications



### The JXREC mechanism specifications:

- Rated working voltage:  $U_n=220 \sim 240V$  AC
- Rated working frequency: 50Hz
- Tripping times: 6 times
- Tripping delay time: 10s,20s,30s,60s,120s,600s
- Power of JXREC mechanism:  $P= :30VA$
- The JXREC error time:  $0.4S < T < 1S$
- Auxiliary contact: 1NO+ 1NC,NO dry contact
- Auxiliary contact capacity:  $V_{max} 250V I_{max} 2A$

### RCCB specifications

- Rated current  $I_n$ : 25A,40A,63A;
- Rated residual current  $I_{\Delta n}$ : 0.03A,0.1A,0.3A;
- Pole number: 1P+N,3P+N;
- Rated breaking capacity  $I_m$ : 500A ( $I_n=25A,40A$ )630A( $I_n=63A$ );
- Rated residual current and breaking capacity  $I_{\Delta m}$ :500A( $I_n=25A,40A$ ) 630A( $I_n=63A$ );
- Rated limited short-circuit current  $I_{nc}$ : 6000A;
- Rated limited residual short current  $I_{\Delta c}$ : 6000A;
- Rated residual non-trip current  $I_{\Delta no}$ :  $0.5I_{\Delta n}$ ;
- Residual current tripping and breaking time chart.

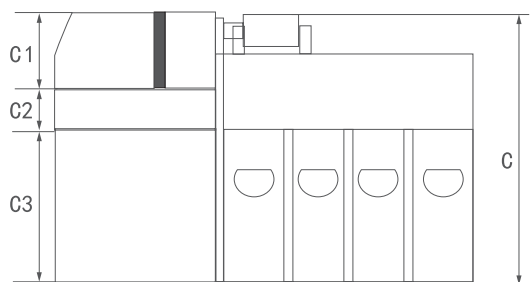
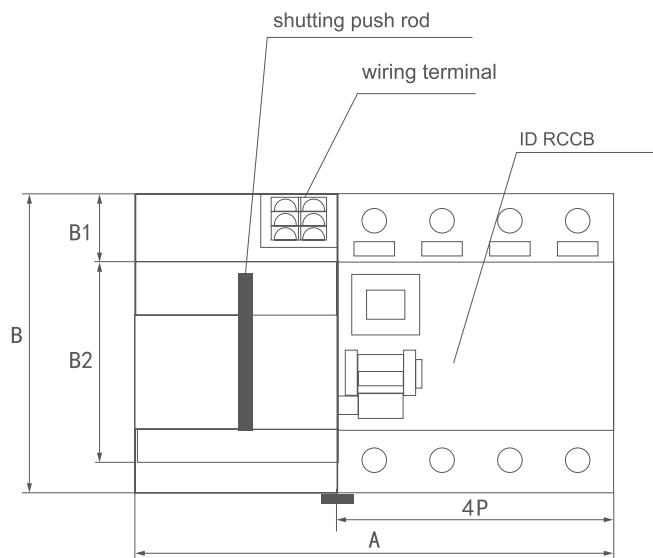
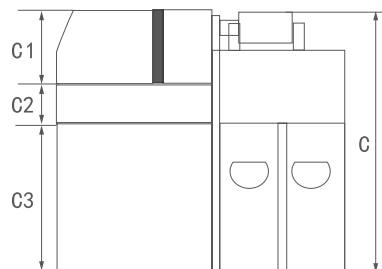
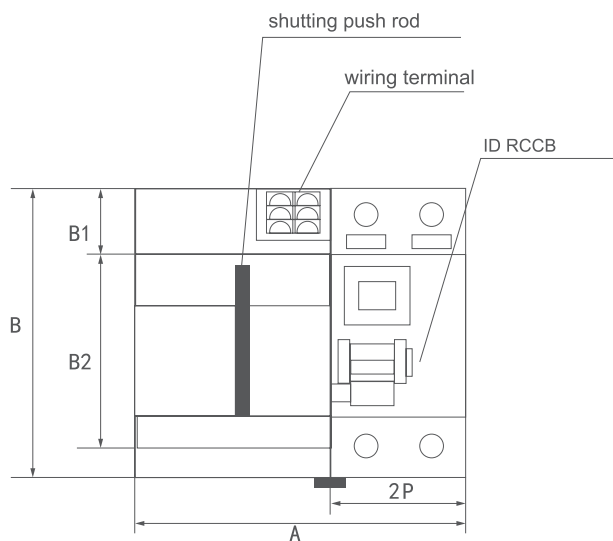
$I_n$	$I_{\Delta n}$	Residual current ( $I_{\Delta n}$ ) breaking time					
		$I_{\Delta n}$	$2I_{\Delta n}$	$5I_{\Delta n}$	5A,10A.20A.50A.100.200A,500A	Max breaking time	
25,40,63	0.03,0.1,0.3	0.01	0.08	0.04	0.04	Max breaking time	

- mechanical electrical time
- RCCB cycle-index

$I_n(A)$	On load operate time	Off load operate time	Operation frequency times/hour
25	2000	2000	240
40,63	2000	1000	120
Reclosure	3000	3000	120

# JXREC Series Residual Current Circuit Breaker

## Product Appearance and Installation Guide



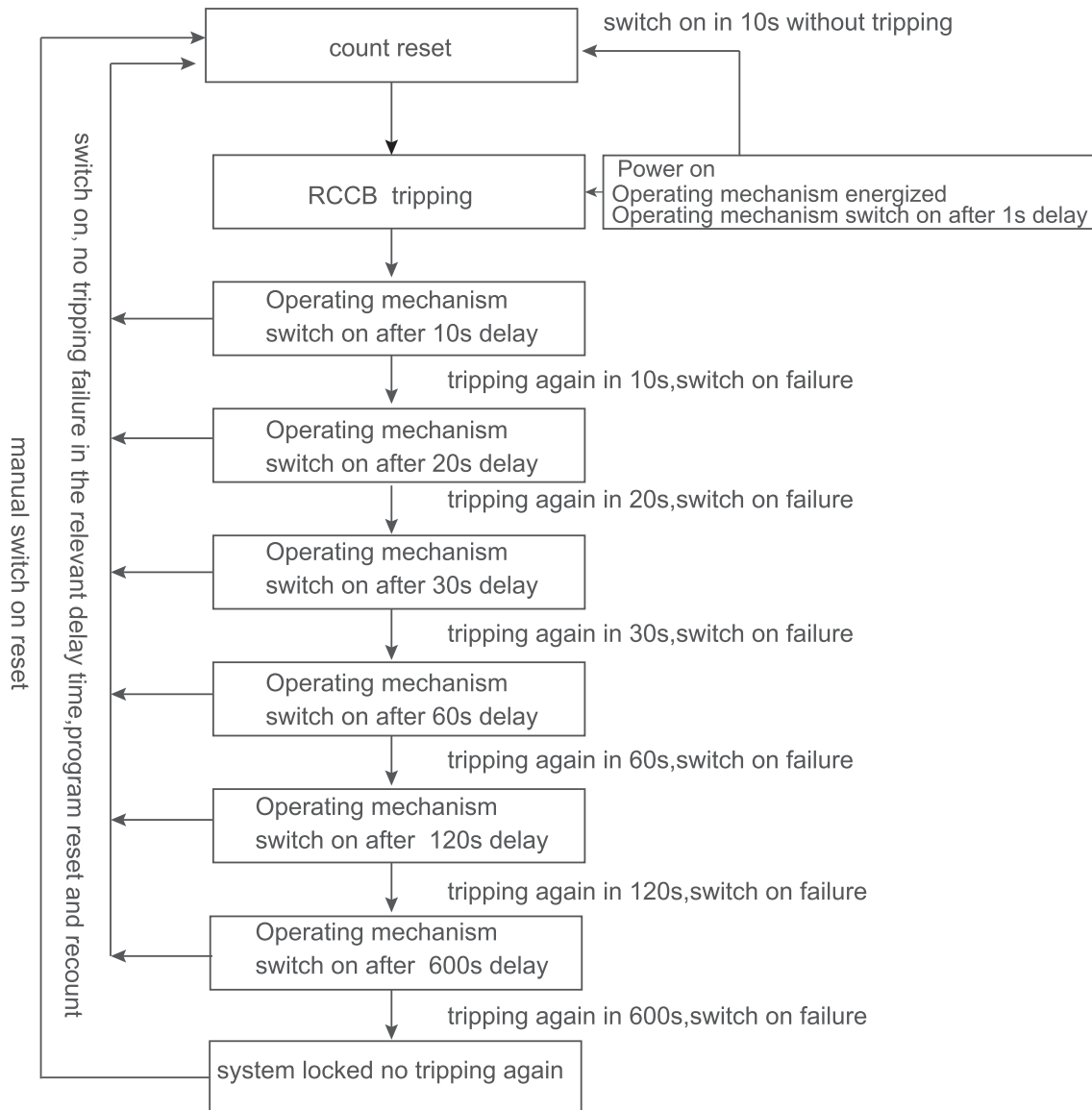
	A	B	C	B1	B2	C1	C2	C3
2P	93	84	80	18.5	57	16.5	9	50.5
4P	130	84	80	18.5	57	16.5	9	50.5

# Residual Current Circuit Breaker

## Recloser Program Working Pattern

### System locked manual reset protocol:

- RCCB handle manual switch off
- Manual locking push rod shut down and restarts again
- Start the remote switch on button



When the RCCB tripping off, the REC recloser program will active: if the reclosing success, and no reappear tripping off before the previous delay time range , then the program counter reset; if reclosing success, the system have reappeared a tripping off before the previous delay time range, then the system enter a longer delay reclosing cycle-index, If the device has reclosed for 6 times, still not successfully reclosed the earth leakage protection device(RCCB), then the device automatically lock down, it will not try to automatically switch on again, until manually reset.

# Type B Residual Current Circuit Breaker



## Application

JXL2-63B Type B residual current circuit breaker is applied to the lines with rated voltage of 400V/415V~(3P+N), and rated current of 63A. In case of electric shock or electric leakage current exceeds the specified value, the residual current circuit breaker can switch off the fault circuit in a very short time, protecting the safety of person and electric equipment. Conform to the standard: IEC / EN61008-1, IEC / EN62423.

- It can protect complex waveforms such as compound wave, two-phase or three-phase rectifier wave and smooth DC wave.
- Suitable for photovoltaic power generation, frequency converter, charging pile and other occasions with large dc component.

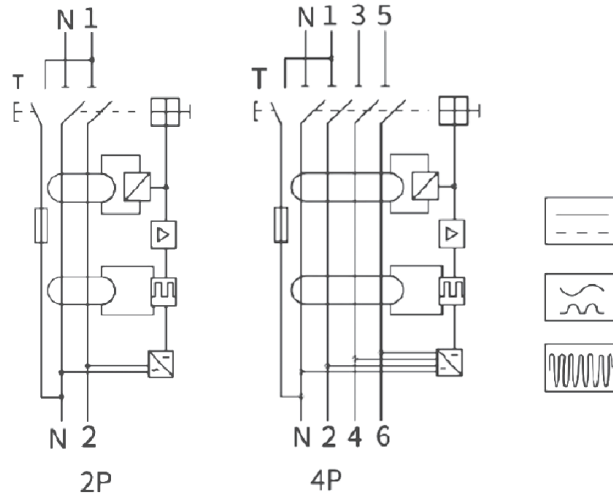


## Basic Specification and Main Parameters

Model Name	JXL2-63B
Type (wave form of the earth leakage sensed)	B
Pole number	2P(1P+N),4P(3P+N)
Standard	IEC61008.1 IEC62423
Rated working current(In)	25A,40A,63A
Rated working voltage(Ue)	230V/240V(2P),400V/415V(4P)
Rated frequency	50/60Hz
Rated inpluse withstand voltage(Uimp)	4000V
Rated insulation voltage(Ui)	500V
Rated residual operating current(IΔn)	30mA
Rated residual making and breaking capacity(IΔm)	500A(In=25A/40A),630A(In=63A)
Rated making and breaking capacity(I <sub>m</sub> )	500A(In=25A/40A),630A(In=63A)
Rated limiting short-circuit current(I <sub>nc</sub> )	6000A,10000A
Rated limiting residual short-circuit current(IΔc)	6000A,10000A
Mechanical life	6000
Electric life	4000
Protection degree	IP20
Enviroment teperature	-5°C~+40°C
Installation level	≤ 2000m
Storage temperature	-25°C~+70°C
Mounting	On DIN rail EN60715(35mm) by means of a fast clip device
Tightening torque	2.5Nm 22In-lbs
Wiring terminal copper size	25mm <sup>2</sup> (25A/40A/63A)
Wiring terminal connection conductor size	25mm <sup>2</sup> (25A/40A/63A)

# Type B Residual Current Circuit Breaker

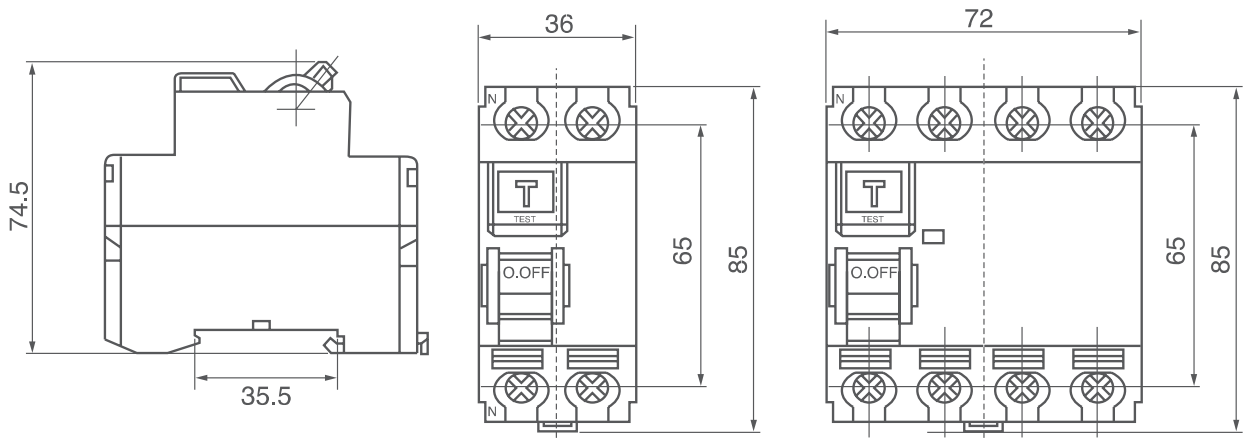
## Operation Principle Figure



## Security Warning

- This product must be installed professionally.
- Operation with wet hands is strictly prohibited in case of electric shock hazard.
- The products don't have the dust-proof function with protection class IP20, please install in a sealed box when they are used in a dusty environment.
- The product can't protect the risk of electric shock that caused by two lines contact protection circuit at the same time.
- Residual current protection features is tested and adjusted by the manufacturer, users can not adjust the product at random during usage.
- RCCB must not be wetted or soaked by rain, snow or water during transportation, storage and usage.

## Outline & Installation Dimension



# JX-S Series Digital Display Socket Tester



JX-S130



JX-S230

## Application

Digital Display Socket Tester have beautiful appearance and light weight, excellent performance and reliability, plug and measure, one key detection, intelligent digital display, automatic identification, high measurement accuracy, anti-slip plug and pull design characteristics. The shell and parts of this product are made of flame-retardant and impact-resistant materials with long service life. It is suitable for the line of AC 50Hz or 60Hz, rated working voltage 230V AC. The socket is mainly used for power socket wiring polarity detection and leakage protection switch safety, also can detect the socket wiring quickly and accurately. The tester with a display can measure the socket voltage and display.

This product mainly detect leakage protection switch of RCD rapidly and effectively, wiring is correct or not, whether missing phase line, missing zero line or missing ground line, whether phase line ground wire is connected inversely, phase line zero line is connected inversely, phase line ground wire error and lack of ground line. It confirms standard of IEC 61010-1.

## Basic Specification and Main Parameters

Model	JX-S130, JX-S230
Working Voltage	48-250V
Working Frequency	45-65Hz
Working Environment	0~40°C
Working Humidity	20%~75%RH
Storage Temperature	-10°C~50°C
Storage Humidity	20%~80%HR
Altitude	≤ 2000m
RCD Residual Current	>30mA, >100mA, >150mA, >300mA

## Function Control Table

Model	JX-S130	JX-S230
Optional design	/	With display/no display
Open Live	○○○	○○○
Open Neutral	○●●	○●○
Open Ground	●●○	●○○
Live/Grd Reverse	○○●	○●●
Live/Neu Reverse	●○○	●○●
Live/GRD Reverse, Missing GRD	/	●●●
RCD Leakage Current Test	●●●	●●○



# JX-S Series Digital Display Socket Tester

## Function Key Analysis

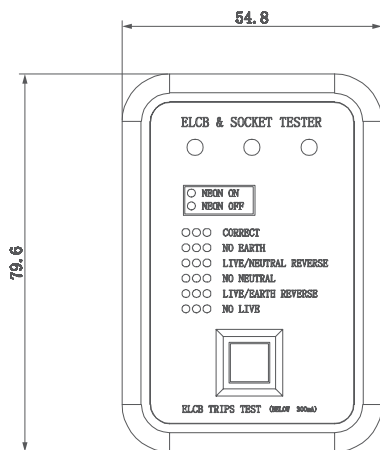


JX-S130

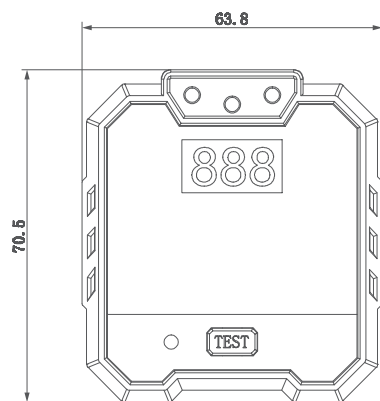
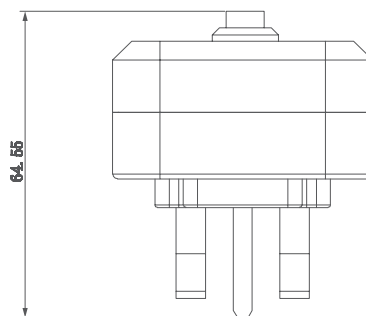


JX-S230

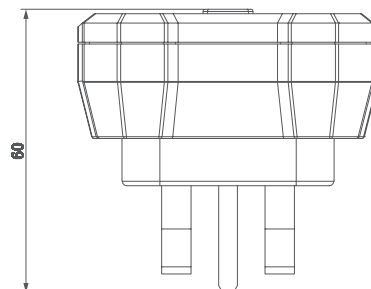
## Overall and Dimension(mm)



JX-S130



JX-S230



# JXB2-63 Series Miniature Circuit Breaker

## Application

JXB2-63 high switch-off ability miniature circuit breaker is applicable to a line of AC 50/60Hz, rated voltage 230/400V and rated current up to 63A, used for overload and short circuit protection. It can also be used for infrequent line conversion under the normal condition. The breaker is applicable to industrial enterprise, commercially district, high-rise building and dwelling house. It conforms with the standards of IEC 60898-1.

## Main Technical Parameter

Type		JXB2-63	
Pole		1P	2P, 3P, 4P
Rated current (A)		1,2,3,4,6,10,16,20,25,32,40,50,63	
Rated voltage(V)		230	400
Type of instantaneous release		B,C,D	
Rated short circuit breaking capacity Icn(kA)		10	
Life	1-32A	Electric life	8000
		Mechanical life	20000
(times)	40-63A	Operation frequency	240 times per hour
		Electric life	8000
		Mechanical life	20000
		Operation frequency	120 times per hour

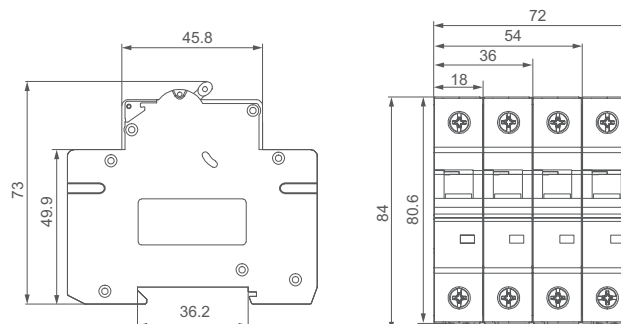
## Applicable Conducting Wire

Rated current(A)	Nominal cross section of wire mm <sup>2</sup>
1-6A	1
10A	1.5
16,20A	2.5
25A	4
32A	6
40,50A	10
63A	16

## The Over-current Protection Property

Ambient temperature	Initial status	Test current	Test time	Expected result	Note
30±2°C	Cold position	1.13In	t ≥ 1h	Non-release	-
	Carried out immediately after previous test	1.45In	t < 1h	Release	-
	Cold position	2.55In	1s < t < 60s (In ≤ 32A)	Release	Current smoothly rises to specified value within 5s
	Cold position	2.55In	1s < t < 120s (In > 32A)	Release	
-5~+40°C	Cold position	3In	t ≤ 0.1s	Non-release	Type B
	Cold position	5In	t < 0.1s	Release	Type B
	Cold position	5In	t ≥ 0.1s	Non-release	Type C
	Cold position	10In	t < 0.1s	Release	Type C
	Cold position	10In	t ≥ 0.1s	Non-release	Type D
	Cold position	20In	t < 0.1s	Release	Type D

## Dimension



# JXB1-125 Series Miniature Circuit Breaker

## Application

JXB1-125 have delicate appearance, light weight. Excellent and reliable performance, high breaking capacity, rapid tripping and mounted by rail. Its enclosure and components adopts high fire-resistant and shock-resistant plastic of long durability. It mainly serves for protecting the circuits of AC 50Hz/60Hz, 230V of single pole, 400V of two poles or three or four poles from overload or short-circuit, and also for unfrequent making and breaking electrical apparatus and lighting circuit. It conforms with the standards of IEC 60947-2.

## Main Technical Parameter

Type	JXB1-125	
Pole	1P	2P, 3P, 4P
Rated current (A)	63,80,100,125	63,80,100,125
Rated voltage(V)	230	400
Ambient temperature	-5°C~+40°C	-5°C~+40°C
Type of instantaneous release	C,D	C,D
Rated short circuit breaking capacity(kA)	10	10

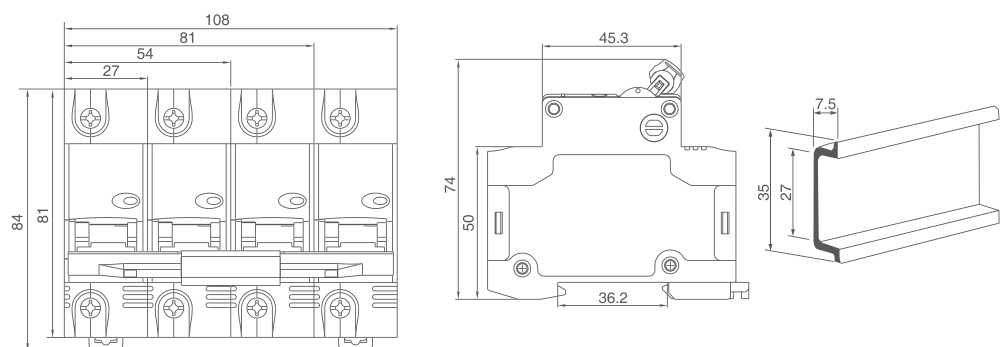
## Applicable Conducting Wire

Rated current(A)	Nominal cross section of wire mm <sup>2</sup>
63	16
80	25
100	35
125	50

## The Over-current Protection Property

Ambient temperature	Initial status	Test current	Test time	Expected result	Note
40±2°C	Cold position	1.05(In ≤ 63A)	t ≥ 1h	Non-release	-
	Cold position	1.05(In ≤ 63A)	t ≥ 2h	Non-release	-
	Carried out immediately after previous test	1.30(In ≤ 63A)	t < 1h	Release	Current smoothly rises to specified value within 5s
		1.30(In ≤ 63A)	t < 2h	Release	
-5~+40°C	Cold position	8In	t ≤ 0.2s	Non-release	-
	Cold position	12In	t < 0.2s	Release	-

## Dimension



# JXB1LE-125 Series Earth Leakage Circuit Breaker

## Application

JXB1LE-125 Earth Leakage Circuit Breaker (ELCB) is mainly used in the distribution line with AC50/60Hz rated insulation voltage 600V, rated operating voltage up to 380V(400V) and below; rated current from 63A to 125A, rated operating capacity of no more than 6000A, make the earth leakage protection and there is overload and short-circuit protection, and also it is used for infre-quent on-off and changeover operation Its performance and compliance conforms with IEC60947-2 standard.



## Products

- Classification: 1P+N; 2P; 3P; 3P+N; 4P
- Rated Current: 63A, 80A, 100A, 125A
- Rated operating voltage: 230V/400V
- Wiring: with pole clamp terminals
- Tripping Type: the circuit breaker trip type is motor protection type
- Installation: DIN rail embedded
- Operation: manual operation
- Protection functions: not only with earth leakage protection, but also performance on the long delay overload protection and instantaneous short-circuit protection

## Normal Using Conditions

- Ambient temperature:
  - a. Does not exceed +40 °C
  - b. not less than -5°C,
  - c. In 24h the average does not exceed +35 °C.
- Installation site altitude not exceeding 2000 meters
- Atmospheric relative humidity does not exceed 50% at the highest temperature +40 °C .  
When low humidity can have a high temperature, such as in the wettest month average temperature does not exceed +25 °C, the monthly relative humidity less than 90%, and allows when temperature changing, there is condensation on the surface of the circuit breaker
- The breaker's using place: Pollution Degree 3
- Breaker's installation category: usually category A

## Technical Data

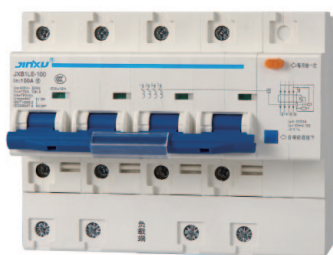
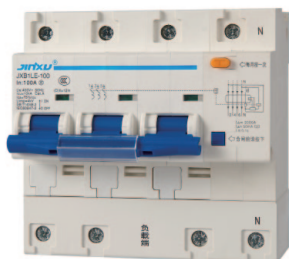
- Residual current protection features
  - a. Rated residual operating current:  $I = 30\text{mA}$  or  $50\text{mA}$ ;  $100\text{mA}$  or  $300\text{mA}$ ,
  - b. Rated residual non-operating current :  $15\text{mA}$  or  $25\text{mA}$ ;  $50\text{mA}$  or  $150\text{mA}$
  - c. Rated residual operating current maximum breaking time:  $0.1\text{S}$
  - d. Rated residual operating and breaking capability:  $2000\text{A}$
- Over-current tripping characteristics
- Over-current tripping characteristic of the circuit breaker, on the condition of the normal installation of  $30 \pm 2^\circ\text{C}$  ambient temperature, shall comply with the requirements under Table 1

Table 1 Over-current tripping characteristics

Disconnect the power distribution characteristics of inverse time breaker				
Ambient temperature	Test current	Test time		Expected result
$30 \pm 2^\circ\text{C}$		$I_n \leq 63\text{A}$	$63\text{A} < I_n \leq 63\text{A}$	
Cold position	$1.05I_n$	$< 1\text{h}$	$< 2\text{h}$	Non-release
Hot position	$1.3I_n$	$< 1\text{h}$	$< 2\text{h}$	Release

Inverse time of breaker tripping operation time should be consistent with "DZ58 MCCB equivalent test parameter table"

Instantaneous operating characteristics shall conform to Table 2



# JXB1LE-125 Series Earth Leakage Circuit Breaker

Table 2 Instantaneous operating characteristics

Initial status	Test current	Test time	Expected result
Cold position	$12I_n \pm 20\%$	$t < 0.2s$	Instantaneous trip

When short-circuit current is equal to 80% of the instantaneous trip test setting current, the trip should be no action, the current duration time  $t < 0.2s$ ; the test current is equal to 120% of the short-circuit setting current, the tripping time  $t < 0.2s$

Note: Instantaneous tripping can be carried out at any temperature

Rated short circuit breaking capacity is shown in Table 3

Table 3 Short circuit breaking capacity

Rated current(A)	Rated short breaking capacity (A)	COS $\Phi$
$63 \leq I_n \leq 125$	6000	0.65~0.70

Applicable Conducting Wire

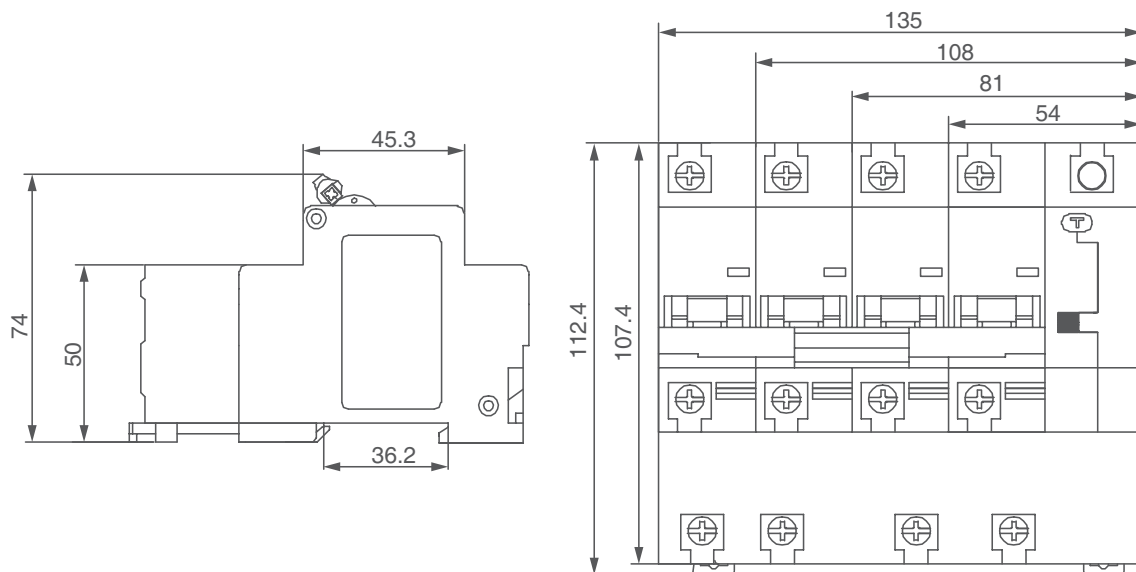
Table 4

Rated Current (A)	63	80	100	125
Conducting wire(mm <sup>2</sup> )	16	25	35	50

### Mechanical and Electrical Life

Breaker at the rated voltage requirements, operating and breaking the rated currents, power factor is 0.65-0.7 to operate the frequency test by the cycle 240 times per hour, and its mechanical and electrical life is 4000 times.

### Outline & Installation Dimension(mm)



# JXM1 Series Moulded Case Circuit Breaker

## Application

JXM1 series moulded case circuit breaker is one of products developed and manufactured by adopting international advanced technology. It is supplied with rated insulating voltage 500V and 800V and used for circuit of AC 50/60Hz, rated operating voltage AC 400V (or below), rated operating current up to 1600A for infrequent changing over and starting of the motors. The products conforms to IEC 60947-2 standard.

## Main Technical Specification

Table 1

Type	Rated current (A)	Pole	Rated insulating voltage (V)	Rated operating voltage (V)	Arcing-over distance (mm)	Ultimate short circuit breaking capacity (kA)	Services short circuit breaking capacity (kA)	Operation performance		Utilization category
								Load	Unload	
JXM1-63L	(6),10,16,20,	3, 4	500V	400V	0	35	22	1500	8500	
JXM1-63M	25,32,40,50,63									
JXM1-125L	(10),16,20,25,	3, 4	800V		0(≤50)	35	17.5			
JXM1-125M	32,40,50,63,									
JXM1-125H	80,100,125									
JXM1-250L	100,125,160,	3, 4	800V		≤50	35	18	1000	7000	
JXM1-250M	180,200,225,									
JXM1-250H	250									
JXM1-400L	225,250,315,	3, 4	800V	400V /690V	≤50	50	25			
JXM1-400M	350,400									
JXM1-400H										
JXM1-630L		3, 4	800V		≤100	50	25	1000	4000	
JXM1-630M	400,500,630									
JXM1-630H										
JXM1-800L	630,700,800	3, 4	1000V		≤100	70	50			
JXM1-1250L	1000,1250	3, 4	1000V		≤100	100	70			
JXM1-1600L	1600	3, 4	1000V		≤100	100	70			

Note: 6A without thermal protection

The N-pole of four-poles breaker is sited at the right side of the product has four types:

Type A: Without current trip-lease on N pole which making all the time, not closing and opening with the other three poles.

Type B: Without current trip-release on N pole which closing and opening with the other poles.

Type C: With current trip-release which closing and opening with the other three poles.

Type D: With current trip-release which making all the time not closing and opening with the other three poles.

## Protection Characteristic

The thermodynamic release of a circuit breaker provides the feature of inverse time-delay, while the magnetic release is the instantaneous operation as shown on table 2(distribution circuit breaker) and table 3 (motor protection circuit breaker).



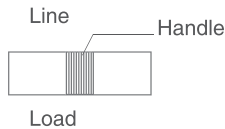
Table 2

Rated current of release (A)	Thermodynamic release( ambient temperature land +40°C marine +45°C )		Operating current of magnetic release (A)
	1.05In(cold state) Inoperative time(h)	1.30In(heat state) Operative time(h)	
10 ≤ In ≤ 63	≥ 1	< 1	10In±20%
63 < In ≤ 100	≥ 2	< 2	
100 < In ≤ 800	≥ 2	< 2	5In±20% 10In±20%

Table 3

Rated current of release (A)	Thermodynamic release ( ambient temperature land +40°C marine +45°C )				Operating current of magnetic release (A)
	1.0In(cold state) non-trip time(h)	1.20In(heat state) trip time (h)	1.50In(heat state) trip time (h)	7.2In(cold state) trip time(h)	
10 ≤ In ≤ 225	≥ 2	< 2	≤ 4min	4s < Tp ≤ 10s	12In±20%
225 < In ≤ 630			≤ 8min	6s < Tp ≤ 20s	

### Release Pattern and Accessories Code



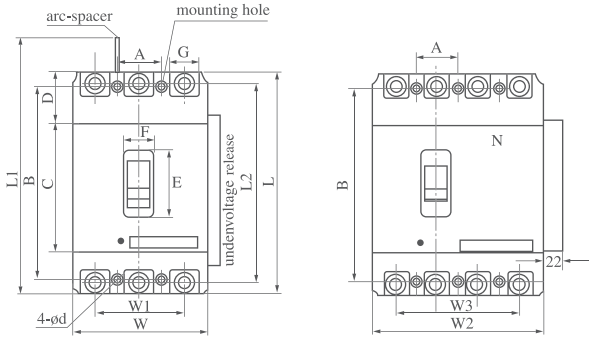
SHT: Shunt release; UVR: Under-voltage release;  
 AX: Auxiliary contact; AL: Alarm contact

Release pattern and accessories code	Name	Type	JXM1-63, 100, 225	JXM1-400	JXM1-630	JXM1-800
200, 300	Without accessories		200: magnetic release (only short circuit protection) 300: thermal magnetic release(both overload and short circuit protection)			
208, 308	Alarm contact		AL	AL	AL	AL
210, 310	Shunt release		SHT	SHT	SHT	SHT
220, 320	Auxiliary contact		AX	AX	AX	AX
230, 330	Under-voltage release		UVR	UVR	UVR	UVR
240, 340	Shunt release Auxiliary contact		SHT AX	SHT AX	SHT AX	AX SHT
250, 350	Shunt release Under-voltage release		SHT UVR	SHT UVR	SHT UVR	UVR SHT
260, 360	Two group of auxiliary contact		AX AX	AX AX	AX AX	AX AX
270,370	Under-voltage release Auxiliary contact		AX UVR	AX UVR	AX UVR	UVR AX
218, 318	Shunt release Alarm contact		AL SHT	SHT AL	AL SHT	AL SHT
228, 328	Alarm contact Auxiliary contact		AL AX	AL AX	AL AX	AL AX
238, 338	Under-voltage release Alarm contact		AL UVR	AL UVR	AL UVR	AL UVR
248, 348	Shunt release, Alarm contact, Auxiliary contact		AL AX SHT	SHT AL AX	AL AX SHT	AL AX SHT
268, 368	Two group of auxiliary contact,Alarm contact		AL AX AX	AL AX AX	AL AX AX	AL AX AX
278, 378	Shunt release, Alarm contact, Under-voltage release		AL AX UVR	AL AX UVR	AL AX UVR	AL UVR AX

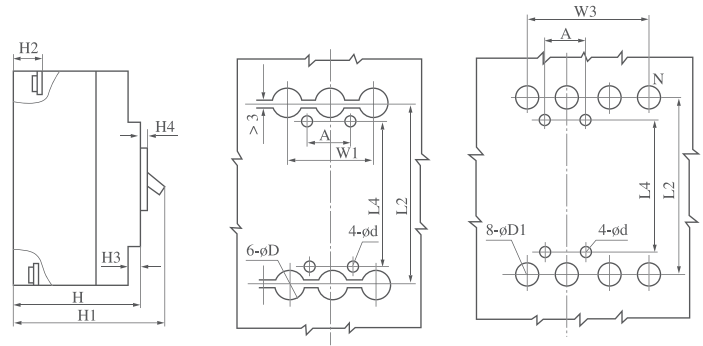
# JXM1 Series Moulded Case Circuit Breaker

## Outline and Installation Dimensions

Front panel connection



Back panel connection



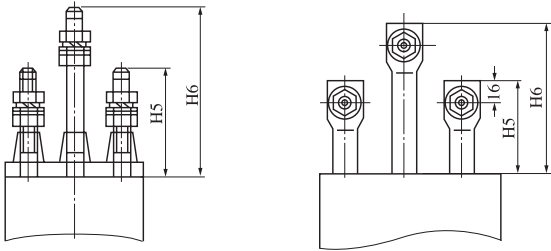
Type	Outline Dimensions(mm)															
	Front panel connection															
	W	W1	L1	L2	L	H1	H2	H3	H4	C	H	D	E	F	G	W2
JXM1-63L	76	50	170	117	135	92	20	7	4	85	74	28.5	48	22	14	100
JXM1-63M	76	50	170	117	135	98.5	28	7	4	85	82	28.5	48	22	14	100
JXM1-125L	92	60	185	132	150	86	24	7	4	88	68	35.5	50	22	17.5	122
JXM1-125M	92	60	185	132	150	104	24	7	4	88	86	35.5	50	22	17.5	122
JXM1-125H	92	60	185	132	150	104	24	7	4	88	86	35.5	50	22	17.5	122
JXM1-250L	107	70	215	144	165	110	24	5	4	102	86	31.5	50	22	17	142
JXM1-250M	107	70	215	144	165	127	24	5	4	102	103	31.5	50	22	17	142
JXM1-250H	107	70	215	144	165	127	24	5	4	102	103	31.5	50	22	17	142
JXM1-400L	150	96	357	224	257	155	38	8	6	128	105	64.5	89	65	ø26	198
JXM1-400M	182	116	370	234	270	160	43	8	6	134	110	70	89	65	ø29	198
JXM1-400H	182	116	370	234	270	160	43	8	6	134	110	70	89	65	ø29	198
JXM1-630L	182	116	370	234	270	160	43	8	6	134	110	70	89	65	ø29	240
JXM1-630M	182	116	370	234	270	160	43	8	6	134	110	70	89	65	ø29	240
JXM1-630H	210	140	380	243	280	145	33	30	128		106					
JXM1-800L	210	140	380	243	280	145	33	30	128		106					
JXM1-1250L	210	140			393						200					
JXM1-1600L	210	140			393						200					



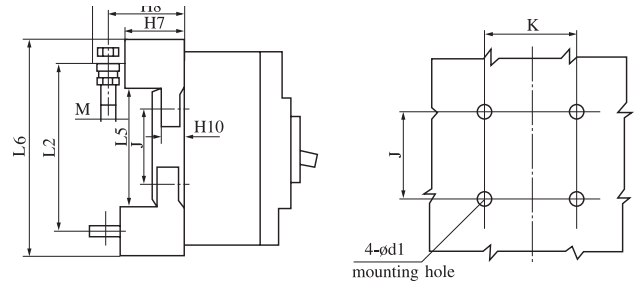
# JXM1 Series Moulded Case Circuit Breaker

## Outline and Installation Dimensions

Back panel connection



Plug-in connection



Outline Dimensions(mm)																	Installation Dimensions		
Back panel connection							Plug-in connection												
W3	L4	H5	H6	ØD	ØD1	L5	L6	H7	H8	H9	H10	J	K	Ød1	M	A	B	Ød	
75	117	44	66	8	8							60.7				25	117	3.5	
75	117	44	66	8	8							62				25	117	3.5	
90	129	68	108	26	16	92	168	50	62	74	17.5	56	60	6.5	M8	30	129	4.5	
90	129	68	108	26	16	92	168	50	62	74	17.5	56	60	6.5	M8	30	129	4.5	
90	129	68	108	26	16	92	168	50	62	74	17.5	56	60	6.5	M8	30	129	4.5	
105	126	66	110	20	20	94	183	50	69.5	84.5	17.5	54	70	6.5	M8	35	126	5	
105	126	66	110	20	20	94	183	50	69.5	84.5	17.5	54	70	6.5	M8	35	126	5	
105	126	66	110	20	20	94	183	50	69.5	84.5	17.5	54	70	6.5	M8	35	126	5	
144	194	60	120	33	33	169	279	60	83.5	106.5	21	129	60	8.5	M10	44	194	7	
144	200	65	125	36	36	169	299	60	92	110	21	123	100	8.5	M12	58	200	7	
144	200	65	125	36	36	169	299	60	92	110	21	123	100	8.5	M12	58	200	7	
174	200	65	125	36	36	169	299	60	92	110	21	123	100	8.5	M12	58	200	7	
174	200	65	125	36	36	169	299	60	92	110	21	123	100	8.5	M12	58	200	7	
		128														70	243	7.2	
		128														70	243	7.2	

# JXW45 Series Intelligent Circuit Breaker



## Application

JXW45 series intelligent circuit breaker (hereinafter referred to as breaker) is suitable for the circuit of AC 50/60Hz with rated voltage 400V, 690V and rated current up to 6300A .It is mainly used to distribute electric energy and protect circuit and power supply equipment from overload, under-voltage short-circuit ,and single-phase earthing .With intelligent and selective protection functions, the breaker can improve the reliability of power supply, and avoid unnecessary power failure . The breaker is applicable for power stations, factories , mines(for 690V) and modern high-building, especially for the distribution system of intelligent building.

The breaker conforms to IEC60947-2.

## Environment Conditions for Operation

Temperature condition:  $-5^{\circ}\text{C} \sim +40^{\circ}\text{C}$  ; the average value within 24h not exceed  $+35^{\circ}\text{C}$  .

Elevation: altitude of installation place shall not exceed 2000m.

Atmosphere condition: relative humidity at  $+40^{\circ}\text{C}$  shall not exceed 50%. Higher humidity is permissible at lower temperature condition. When the higher monthly average relative humidity is 90% in the humidest month , the lowest monthly average temperature of this month is  $+25^{\circ}\text{C}$  . And consider the influence of dew on product surface due to temperature changes.

Pollution grade: gradeIII.

The breaker should be installed according to the requirement on the instruction manual: the vertical inclination degree shall not exceed  $5^{\circ}$ .

## Specification

Type	JXW45-2000	JXW45-3200	JXW45-4000	JXW45-6300
Frame rated current $I_{nm}$ (A)	2000	3200	4000	6300
Number of poles	3,4	3,4	3,4	3,4
Rated current $I_n$ (A)	630,800,1000, 1250,1600,2000	2000,2500, 3200	2000,2500, 3200,4000	4000,5000, 6300
$I_{cu}$ (kA)	400V	80	100	120
	690V	50	65	80
$I_{cs} = I_{cw}$ (kA)	400V	50	80	100
	690V	40	50	65
Rated current at N-pole $I_n$ (A)	50% $I_n$ , 100% $I_n$			
Inherent making & breaking time	23-32ms			
Operational performance (operations)	Electric life	500		
	Mechanical life	Maintenance-free2500 Maintenance 10000		
Mounting mode	Fixed withdrawable			
Arcing distance(mm)	0			
Intelligent controller	Standard type(M) telecommunication type (H)			

## Intelligent Controller

Intelligent controller is one of the core components of the circuit breaker

### Properties of the intelligent controller

- a. Protective function of over-load long time-delay and inverse time limit, short time-delay and inverse time limit, short time-delay definite time limit instantaneous operation protection;
- b. Single-phase earthing failure protection;
- c. Display of setting current  $I_r$  and operational current;
- d. Ampere meter;
- e. Over-load alarm;
- f. Short-circuit alarm
- g. Testing of operational properties

Note: The breakers with telecommunication port are available to realize remote control to breaker through master computer.

### Protection performances of over-current release

- a.  $I_r$  and its inaccuracy of the controller

Inm(A)	Long time-delay		Short time-delay		Instantaneous		Earthing failure	
	$I_{r1}$	Error	$I_{r2}$	Error	$I_{r3}$	Error	$I_{r4}$	Error
$\geq 2000$	$(0.4\sim 1)I_n$	$\pm 10\%$	$(0.4\sim 15)I_n$	$\pm 10\%$	$1.0I_n\sim 15kA$	$\pm 15\%$	$I_{nm} \leq 4000A(0.2\sim 0.8) I_n(\text{Max.}1200A.$ $\text{Min.}200A)I_{nm} \leq 6300A(0.2\sim 1.0) I_n$	$\pm 10\%$

- Note: 1. When the breaker could realize over-load with long time delay .short-circuit with short time-delay and short-circuit instantaneous protections, the setting ratings can not be over-lapped ,and  $I_{r1} < I_{r2} < I_{r3}$
2. When the frame is 3200A and above ,the setting ratings range from  $1.01I_n$  to 75kA.

### b. Characteristics of long time-delay protection

1.05 $I_{r1}$	1.3 $I_{r1}$	1.5 $I_r$	2.0 $I_{r1}$
>2h non-tripping	<1h tripping	15s,30s,60s,120s,240s,480s	8.4s,16.9s,33.7s,67.5s,135s,270s

### c. Characteristics of short time-delay protection.

For low over-current ,inverse time-limit protection could be realized; when the over-current is  $>8 I_{r1}$  , it will automatically change to be definite time-limit protection properties.

Refer to table below for time-limit properties.

Setting delay time (s)	Returnable time (s)
0.1, 0.2, 0.3, 0.4	0.06, 0.14, 0.23, 0.35

## Standard Composition

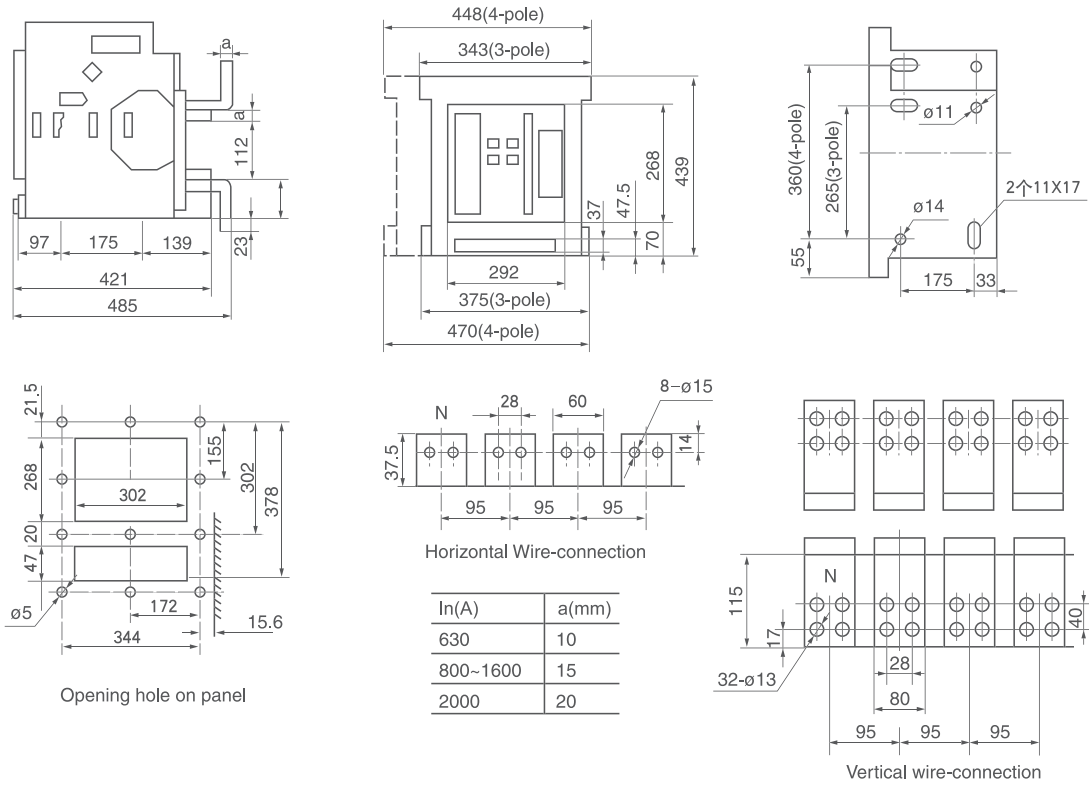
To facilitate your ordering and utilization, the AW45 intelligent with basic electric accessories as follows.

Standard composition of the breaker	Fixed type	Withdrawable type
Body	<input type="checkbox"/>	<input type="checkbox"/>
Drawer base	<input type="checkbox"/>	<input type="checkbox"/>
Intelligent controller	<input type="checkbox"/>	<input type="checkbox"/>
Electric motor	<input type="checkbox"/>	<input type="checkbox"/>
Closing electro-magnet	<input type="checkbox"/>	<input type="checkbox"/>
Shunt release	<input type="checkbox"/>	<input type="checkbox"/>
Under-voltage	<input type="checkbox"/>	<input type="checkbox"/>
Auxiliary contact	<input type="checkbox"/>	<input type="checkbox"/>
Door frame	<input type="checkbox"/>	<input type="checkbox"/>

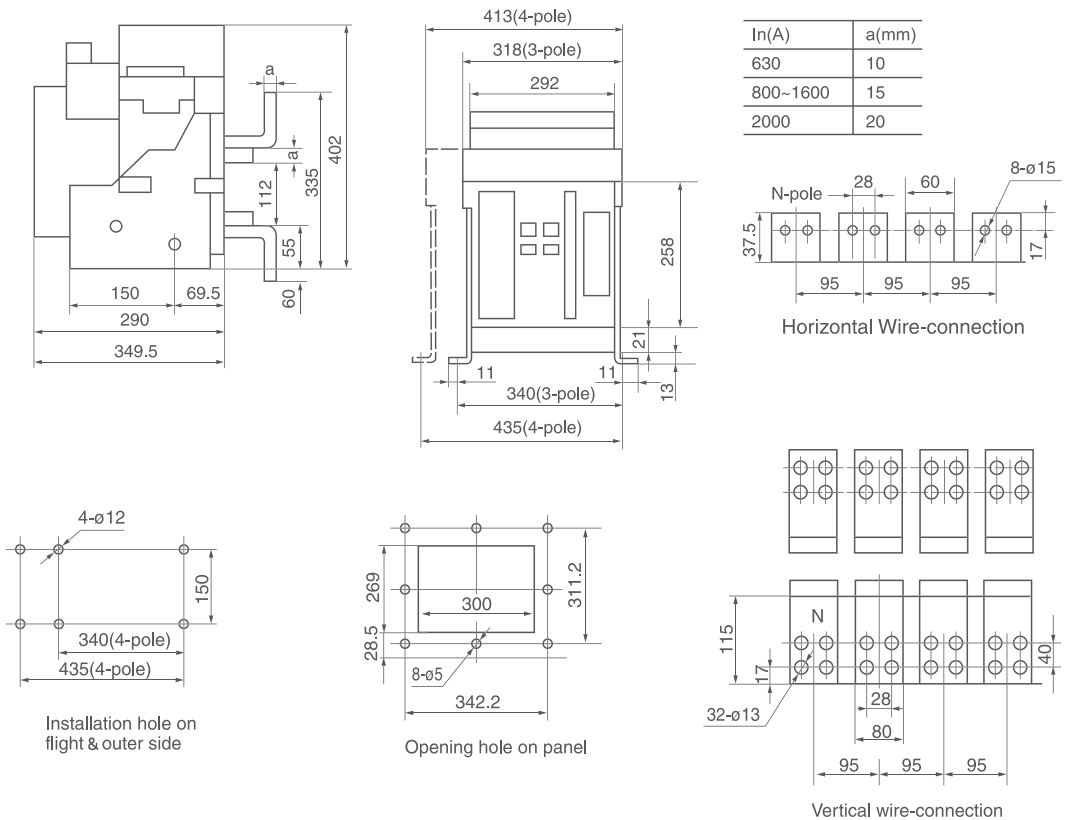
# JXW45 Series Intelligent Circuit Breaker

## Outline and Installation Dimensions

### JXW45-2000 Drawer-type



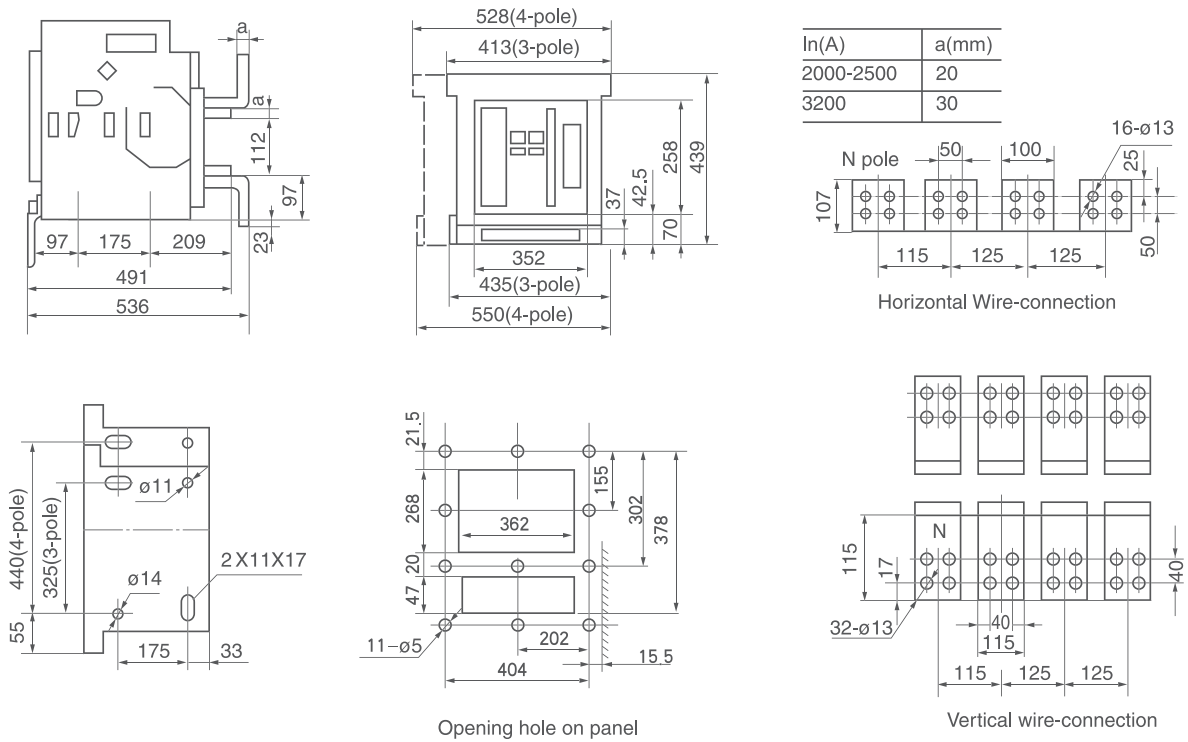
### JXW45-2000 Fixed type



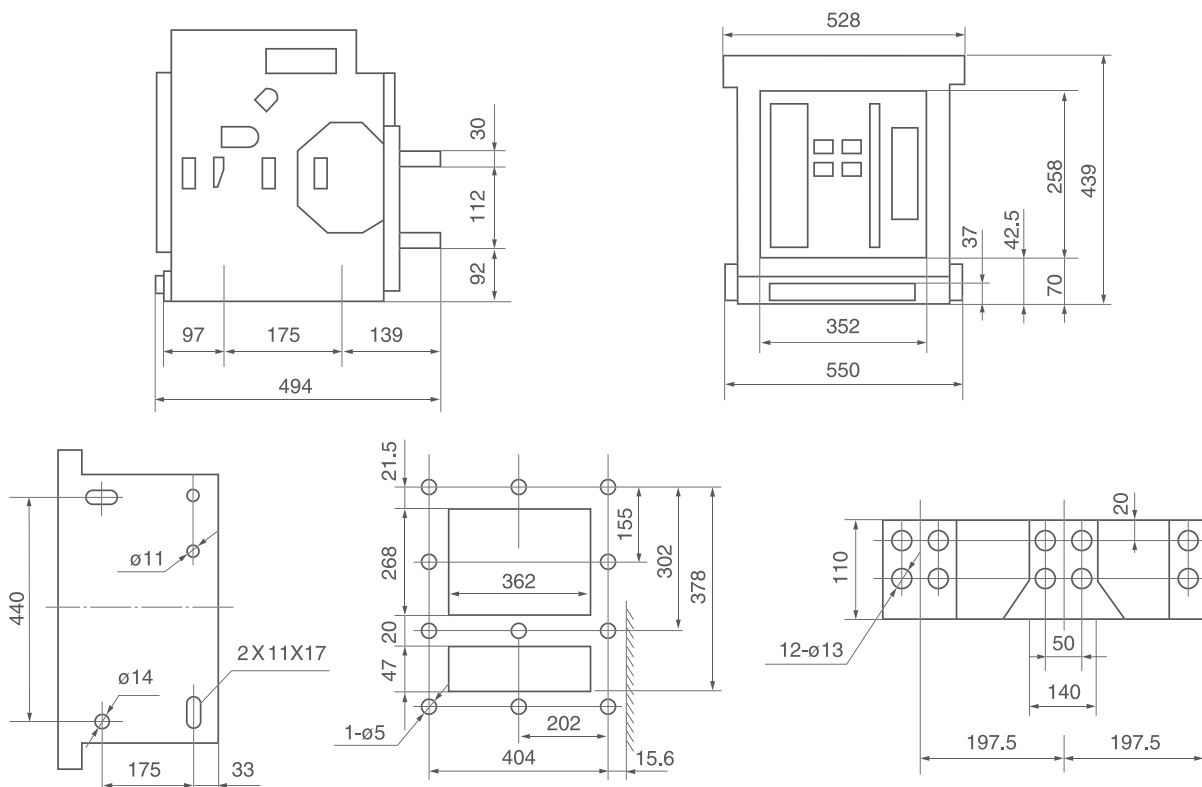
# JXW45 Series Intelligent Circuit Breaker

## Outline and Installation Dimensions

### JXW45-3200 Drawer-type



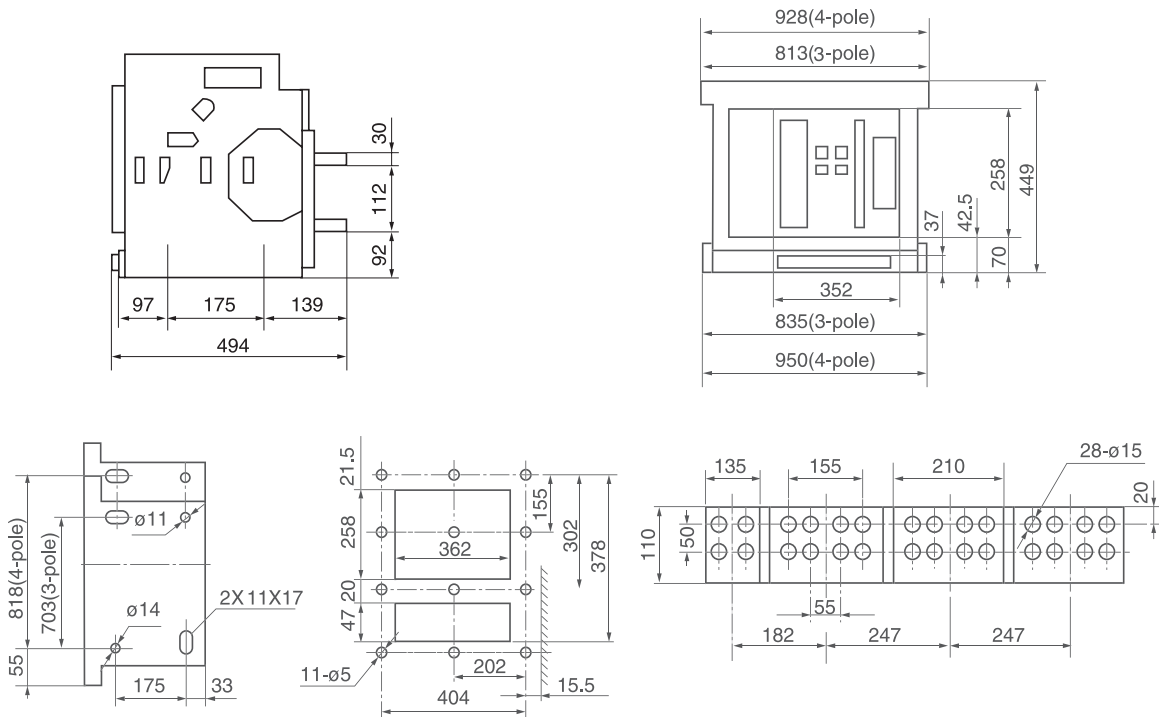
### JXW45-4000 Drawer-type(3-pole)



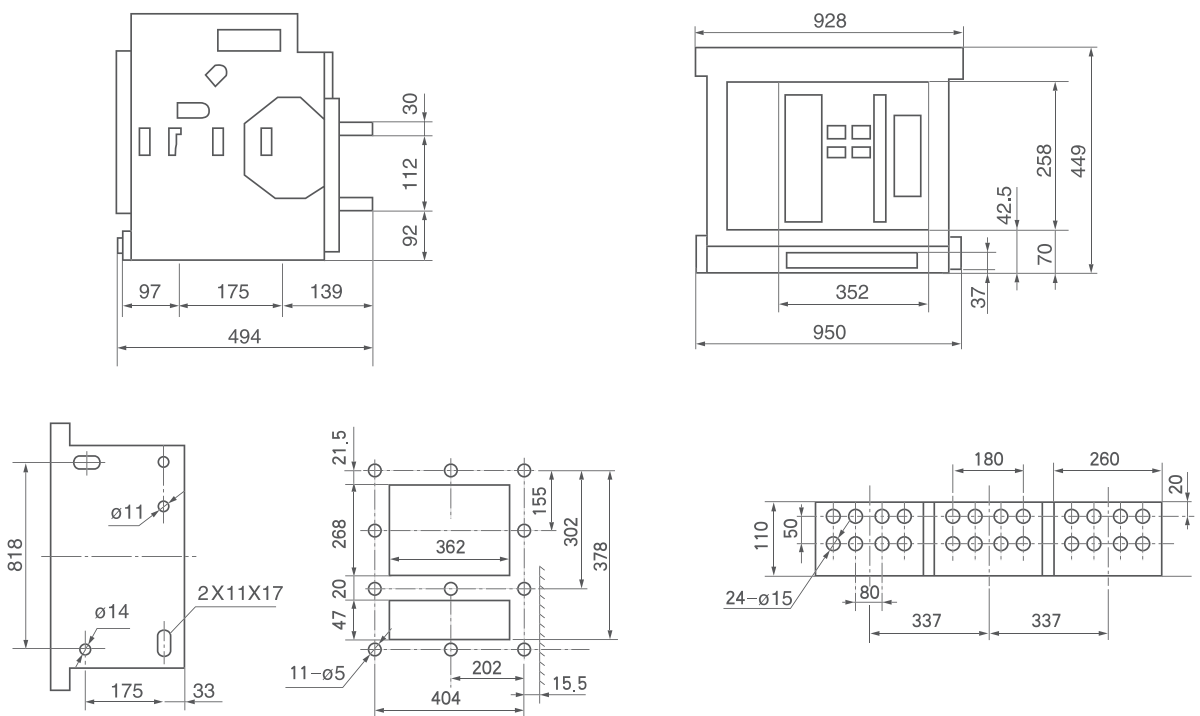
# JXW45 Series Intelligent Circuit Breaker

## Outline and Installation Dimensions

JXW45-4000,5000 Drawer-type



JXW45-6000 Drawer-type



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