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A CHINT COMPANY



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**CHNT**

Empower the World



## **NXV-12 Indoor AC High Voltage Vacuum Circuit Breaker**

# Brief Introduction

## About CHINT Electric

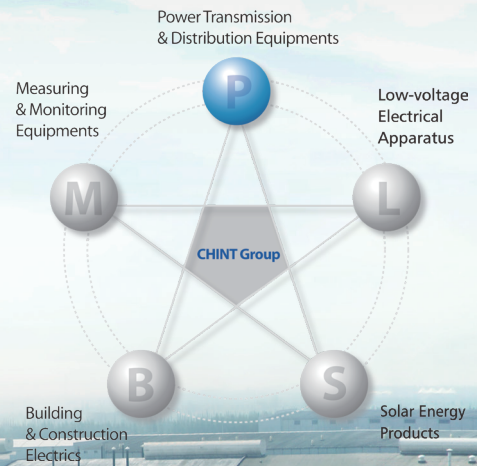
CHINT Electric is a subsidiary of CHINT Group Corporation. With an investment of 450 million USD, CHINT Electric possesses 3800 employees and 5 manufacturing business units with manufactory area of 900,000m<sup>2</sup> located in Shanghai, which is one of the world's largest power transmission & distribution equipments manufactory centers.

## New Orders

Around 800 million USD in the year of 2014

## Employee

3,800 employees





#### Product Range

- Power Transformer up to 750kV
- Distribution Transformer up to 35kV
- Dry-type Transformer up to 35kV
- Reactor up to 220kV
- GIS up to 252kV
- HV Circuit Breaker & Disconnecter up to 252kV
- VCB 12~40.5kV
- MV & LV Switchgear Panel, Prefabricated Substation up to 40.5kV
- LV Terminal Box, Bus Bar Duct
- Surge Arrester & Insulator up to 500kV, CT & PT up to 220kV
- Power Distribution Automation System
- Cable up to 36kV
- Capacitor
- Turn-key Solution

#### About CHINT Group

- CHINT is the leading player in the Power Transmission & Distribution industry and Low-voltage electrics industry in China. Founded in 1984 by a few local entrepreneurs and currently hiring 29,000 employees worldwide. National Employment Advanced Corporate (China State Council, 2012)
- Ranked in The 2011 BCG 100 New Global Challengers (The Boston Consulting Group, 2011)
- CHINT Low-voltage Electrics launched IPO at the Shanghai Stock Exchange of China (2010)
- No.2 in China Electricity Industry's Top 10 Most Competitive Enterprises (China Machinery Industry Information Institute, 2009)
- No.3 in China Electricity Industry (China Machinery Industry Information Institute, 2009)
- No.240 in Top 500 Chinese-Companies (China Enterprise Federation, 2009).
- No.1 in Power T&D and the controlling devices (China Machinery Summit, 2009)
- Ranked in Top 100 Best Employers in China (China Entrepreneurs Summit, 2008)
- No.15 in Top 100 Private & Public Companies in China (Forbes, 2006)
- National Quality Management Award(2004) (One of top honours for manufacturing companies in China)
- Worldwide business operation with 2,000 sales offices, agents, distributors, and local partners in domestic Chinese market and distributors & local partners in over 105 countries. International branches or regional offices set up in USA, UAE, Germany, Russia, Brazil, Ukraine, Hong Kong of China, UK and Nigeria.
- CHINT stretches its business to a new frontier of solar energy by setting up a branch company specialized in the solar energy products development.
- The R&D center of CHINT is recognized as the National Level R&D Center run by the companies, which means the R&D level of CHINT Group has reached the leading position in the industry of China.

# Sales References

With a worldwide presence in over 129 countries such as, Italy, Germany, Estonia, USA, Russia, Japan, Australia, Saudi Arabia, Poland, Ukraine, Mongolia, Kazakhstan, Pakistan, Indonesia, Thailand, Egypt, Algeria, Morocco, Congo, Tanzania, Mali, Zambia, Kenya, South Africa, Ghana, Nigeria, Colombia, etc, CHINT Electric provides reliable and high-qualified products and solutions to clients engaged in different businesses.



## Utility User

**Application:** cooperation with National Electricity Companies in over 84 countries for power generation, transmission and distribution.

### Europe

- EAC-Cyprus  
Products: Cable.
- Eesti Energia-Estonia  
Products: Power transformer.
- EMS-Serbia  
Products: Power transformer.
- ENEL-Italy  
Products: Distribution transformer, cable.
- Fingrid-Finland  
Products: Distribution transformer.
- HS ORKA HF-Iceland  
Products: Power transformer.
- PPC-Greece  
Products: Power transformer, cable.
- NEC-Bulgaria  
Products: VCB.

### Latin America

- BPC-Bhutan  
Products: Surge arrester.
- CELEC S.P.-Ecuador  
Products: Power transformer.
- CNEL-Ecuador  
Products: Power transformer.
- ELCOSA-Honduras  
Products: Power transformer.
- Enersis-Chile  
Products: Power transformer, surge arrester, insulator, SF<sub>6</sub> circuit breaker.
- ENDESA-Chile  
Products: Power transformer, surge arrester, insulator, SF<sub>6</sub> circuit breaker.
- ICE-Costa Rica  
Products: Power transformer.
- PREPA-Puerto Rico  
Products: Surge Arrester.

### North America

- Val Jalbert Mini Hydro Central- Canada  
Products: Reactor
- PREPA-Puerto Rico  
Products : Power transformer; CT&PT
- APR Energy-America  
Products: Voltage transformer

### Asia-pacific

- EVN-Vietnam  
Products: Switch disconnector, power transformer, etc.
- Kamoki-Pakistan  
Products: Substation turn-key project.
- NEA-Nepal  
Products: Substation turn-key project.
- NTDC-Pakistan  
Products: Substation turn-key project.
- QESCO-Pakistan  
Products: Surge arrester.
- TEPCO-Japan  
Products: Power transformer, circuit breaker, disconnector and CT&PT.

- NGCP-Philippines  
Products: Capacitor

More >>>

### Africa

- EEPKO-Ethiopia  
Products: HV Circuit breaker, disconnector, earthing switch, surge arrester, insulator, CT.
- KPLC-Kenya  
Products: Cut-out fuse, surge arrester, insulator.
- ENE-Angola  
Products: GIS.
- JIRAMA-Madagascar  
Products: Reactor.
- PHCN-Nigeria  
Products: Transformer protection & control panel.
- RECO-Rwanda  
Products: Distribution transformer, etc.
- REGIDESO-Burundi  
Products: Power transformer, distribution transformer.
- SBEE-Benin  
Products: Power transformer.
- SNEL-D.R. Congo  
Products: Power transformer.
- SONABEL-Burkina Faso  
Products: Power transformer, reactor.
- TANESCO-Tanzania  
Products: Substation turn-key project.
- VRA-Ghana  
Products: MV switchgear, DC panel, disconnector.
- ZESCO-Zambia  
Products: CT-VT metering unit.

### Middle-east

- NEPCO-Jordan  
Products: Power transformer, earthing transformer.
- ONEC-Oman  
Products: Power transformer.
- TEIAS-Turkey  
Products: Surge arrester, insulator.
- WARD-Lebanon  
Products: SF<sub>6</sub> circuit breaker, disconnector, surge arrester, insulator.

### CIS

- ENA-Armenia  
Products: HV circuit breaker, disconnector, CT, etc.
- Kiev Boryspil International Airport-Ukraine  
Products: Power transformer, GIS, etc.
- TORGOVYIDOM STROJPODSTANZII-Russia  
Products: Current transformer

More >>>

# Global Operation in Over 129 Countries



## Industrial End User

**Application:** widely applicable for mining, iron-steel, cement, metallurgy, chemical, railway, petroleum, paper, power generation industries, etc.

### Mining Industry

- BHP Billiton-Australia  
Products: CT & PT, distribution transformer, etc.
- Rio Tinto-Australia  
Products: Distribution transformer, CT.
- FMG-Australia  
Products: Power transformer.

### Iron-steel Industry

- JFE Steel-Japan  
Products: Disconnecter.
- Bao Steel-China  
Products: Power transformer, MV switchgear panel.

### Cement Industry

- Serebryabskiy Cement Plant-Russia  
Products: HV capacity compensation device, HV capacitor.
- Viet Quang Cement Plant-Vietnam  
Products: Power transformer, HV circuit breaker, disconnecter, MV&LV switchgear panel.

### Petroleum & Gas Industry

- Chevron-USA  
Products: Switchgear panel, distribution transformer.
- PDVSA-Venezuela  
Products: Power transformer, distribution transformer.
- CNPC-China  
Products: Power transformer, GIS, MV switchgear panel.

### Power Rental Industry

- Aggreko-UK  
Products: Power transformer.
- APR Energy-USA  
Products: Power transformer, HV circuit breaker, disconnecter, CT, PT.

### Paper Industry

- VISY-Australia  
Products: Switchgear panel
- UPM-Finland  
Products: MV switchgear panel.

### Chemical Industry

- Saint Gobain-France  
Products: Power transformer, MV switchgear panel, cable, busduct.
- INVISTA-USA  
Products: Distribution transformer, switchgear panel, DC panel.

### Power Generation

- TATA Power-India  
Products: Power transformer.
- SIBAYAK Geothermal Power Plant-Indonesia  
Products: MV&LV switchgear panel, surge arrester, insulator, CT, VCB.

### Commercial & Civil Construction

- Shangri-la Hotel-Philippine  
Products: Distribution transformer.
- Kiev Boryspil International Airport-Ukraine  
Products: GIS.

### Shipbuilding Industry

- Fincantieri-Italy  
Products: Power transformer.

More >>>

## Engineering & Contracting

- EIFFAGE-France  
Products: Power transformer, reactor.
- FLUOR-USA  
Products: Power transformer.
- SMS Siemag-Germany  
Products: Distribution transformer, switchgear panel
- Bouygues Group-France  
Products: Disconnecter, current transformer
- Isolux Corsan-Spain  
Products: Reactor, capacitor, surge arrester

More >>>

## Turn-key Project

- Kamoki-Pakistan  
Projects: 230kV substation EPC.
- Saint Gobain-France  
Projects: 35kV substation EPC.
- NEA-Nepal  
Projects: 132kV and 33kV substation EPC.
- SMCO-D.R. Congo  
Projects: 220kV substation EPC.
- TANESCO-Tanzania  
Projects: 35kV and 66kV substation EPC.
- NTDC-Pakistan  
Projects: 220kV substation EPC.
- Rohri-Pakistan  
Projects: 220kV substation EPC
- Mabuki-Tanzania  
Projects: 220kV, 132kV and 33kV substation EPC
- KPLC-Kenya  
Projects: 132kV and 33kV substation EPC
- Dodoma-Tanzania  
Projects: 220kV substation EPC
- Mbeya-Tanzania  
Projects: 220kV substation EPC
- Shikapur-Pakistan  
Projects: 220kV substation EPC

More >>>

## Sales References MV/LV Switchgear Panel

CHINT T&D MV/LV switchgear panels are widely adopted by Utility Users from Tanzania, Ghana, Nigeria, Mongolia, etc.; Industrial End Users from USA, France, Finland, Australia, Vietnam, Algeria, Indonesia, Russia Kenya etc. like Chevron, Saint Gobain, VISY Paper and Engineering Companies from Australia, Romania, Vietnam, Mongolia, etc.



### Utility User

- Volta River Authority (VRA) - Ghana
- Power Holding Company Of Nigeria (PHCN) - Nigeria
- Mongolia Energy Company - Mongolia
- Tanzania Electric Supply Company (TANESCO) - Tanzania
- Eesti Energia - Estonia

### Industrial End User

- Chevron - USA
- Saint Gobain - France
- VISY Paper - Australia
- Anping Cement Plant - Vietnam
- Invista - Shanghai Qingpu Project
- UPM - Kymmene Corp. Finland
- SINOPEC - Algeria Shengli Oilfield Engineering Project

※ Note: Contact us for more information.



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## NXV Series 12kV Vacuum circuit breaker

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实验室名称: 国家电器产品质量监督检验中心  
Lab Name: China National Center for Quality Supervision  
and Test of Electrical Apparatus Products

No 21K1514-S

# 检验 (试验) 报告 Test Report

委托单位: CHINT ELECTRIC CO.,LTD.  
Client:

产品名称: Indoor HV AC vacuum circuit-breaker

产品型号: NXV-12/T1250-31.5

Product Type:

检验类别: Type test

Test Category:

本实验室对出具的检验 (试验) 结果负责, 未经实验室书面同意, 不得部分地复制本报告。

The laboratory is responsible for the inspection (Test) results. The report shall not be reproduced except in full, written approval of the laboratory.

## Product introduction

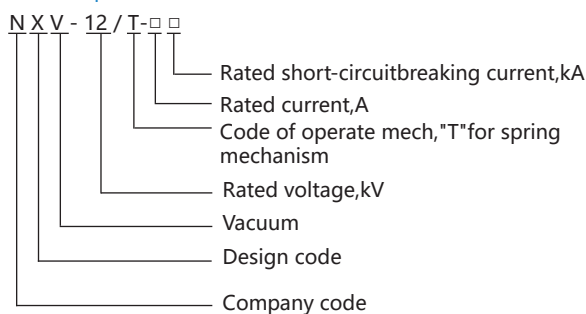
### 1. Overview

NXV series indoor high voltage AC vacuum circuit breakers are indoor switching equipment with rated voltage of 12kV. It can be used for the control and protection of electrical facilities in industry and mining, buildings and substations, as well as in places with frequent operation. The products have high reliability and stability.

The circuit breaker is equipped with low power consumption modular spring operating mechanism to meet the requirements of electric and manual operation. After the mechanism stored energy, the closing operation is completed after receiving the closing signal or pressing the closing button by hand; After the closing action is completed, after receiving the opening signal or press the opening button by hand to complete the opening operation.

The main electrical circuit breaker part of the external insulation materials using environmental protection electrical plastic, at the end of the life of the product can choose to be buried or recycled by the manufacturer, compared with epoxy resin materials more green environmental protection.

### 2. Model specification



### 3.Conditions of use

- Ambient air temperature range: -5° C to 40 ° C, in addition, average temperature measured in 24 hours does not exceed 35° C.
- Solar radiation effect omitted.
- Altitude <=1000m.
- Daily average relative humidity should not exceed 95%. Daily average water vapor pressure should not exceed 2.2kpa;
- Monthly average relative humidity should not exceed 90%. Monthly average vapor pressure should not exceed 1.8kPa.
- Keep away from fire, explosion, serious pollution, chemical corrosion and violent vibration.
- NXV series circuit breaker's normal service conditions comply to IEC62271-100.
- Please contact the manufacturer.

Pay attention if applicable

- Areas with high humidity, tend to generate condensation when the temperature fluctuates rapidly;
- Commissioning as soon as possible once package open;
- Turn on heater as soon as possible when switchgear installed.
- Consult the manufacturer for any special conditions.

**Product Features**

Comply with

IEC 62271-100 High voltage switches and controls -- Part 100: AC circuit breakers;  
IEC 62271-1 High-voltage switchgear and control gear -- Part 1: General specification for ALTERNATING current power switchgear and control gear

High electrical endurance performance, E2 class;

- Max rated short-circuit breaking current 40kA/4s , peak current 100kA;
- Modular spring mechanism, 54% components less compared with traditional mechanism, more reliable and stable; extended mechanical endurance, M2 class;
- Integrated charging handle ensures convenient operation;
- Environment friendly insulating material in main circuit loop, lifetime reliable and easy for recycle;
- Flexible configuration of undercarriage:
  - (1)Bottom grounding option and lateral grounding option are available;
  - (2)Complete interlocks: close-door operation interlock, open door interlock and key locks;
  - (3)Auxiliary switches up to 5NO/ 5NC;
  - (4)Manual and Motor operations are available;

**Vacuum Interrupting**

- Vacuum interrupter adopts the world's advanced manufacturing technology of miniaturized and high-performance interrupter;
- Contact is made of copper chromium alloy, with high vacuum degree;
- Cup style axial magnetic field (AMF) arc extinguishing, providing stable breaking performance;
- A single circuit breaker completes 274 times of rated short-circuit breaking E2;

**Modular Mechanism**

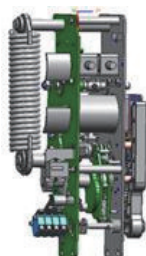
- Modular mechanism design, highly standardized structure;
- Mechanism is easy to assemble / disassemble and easy to maintain;
- High reliability with less number of parts
- Integrated charging handle, makes operation convenient and easy

**Barrel-type Pole**

- Environment friendly insulating material, PA66 provides light weight, high dielectric performance;
- Recyclable and easy disposal after product life cycle;
- Cost effective and reliable;

**Vacuum Circuit Breaker**

- Fully meets the requirements of IEC and GB standards;
- Complete interlocking, prevent misoperation, and provide safety in operation;
- Modular design, shortened delivery time;
- Small opening rebound and excellent performance;
- Extended mechanical life of circuit breakers 10000 times

**4. Technical parameters**

Number	Name	Unit	Data	Note
1	Type		NXV-12	Note
2	Rated Voltage	kV	12	
3	Rated insulated level	kV	42 (phase to phase, phase to earth ) /48 (isolating) 75 (phase to phase, phase to earth ) / 85 (isolating)	
4	Rated frequency	Hz	50	
5	Rated current	A	630、1250、1600、2000、2500、3150	
6	Rated short-time withstand current	kA	20、25、31.5、40	
7	Rated peak withstand current	kA	50、63、80、100	
8	Rated short circuit continue time	s	4	
9	Rated short-circuit breaking current	kA	20、25、31.5、40	
10	Rated short-circuit making current	kA	50、63、80、100	
11	DC component of rated short-circuit breaking current		54%	
12	Rated operating sequence		O-0.3s-CO-180s-CO O-180s-CO-180s-CO	
13	Rated cable-charging breaking current	A	25	
14	Electrical Endurance	Class	E2	
15	Mechanical Endurance	Class	M2	
16	Mechanism Type		Hand press, low energy spring operated mechanism	
17	External insulating material		Environment friendly plastic material	
18	Charging handle spring mechanism)		Integrated in mechanism	
19	Closing time	ms	25~60	
20	Opening time	ms	18~50	

## 5. Overall size

1250A Withdrawable type

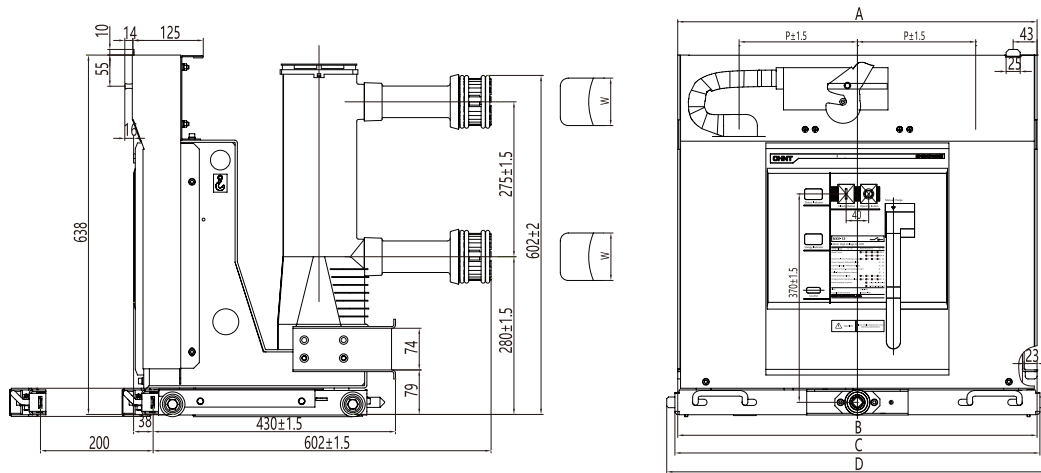


Figure 4 Outline and assembling sizes of trolley type circuit breaker

Table 4 Parameter and sizes of co-ordinated fixed contact

Rated voltage kV	Rated current A	Rated Isc kA	P mm	A mm	B mm	C mm	D mm	W mm	Tube mm
12	630	20, 25, 31.5	150	494	494	502	532	Ø35	500
	1250	20, 25, 31.5						Ø49	
	630	20, 25, 31.5	210	638	638	652	683	Ø35	500
	1250	20, 25, 31.5						Ø49	
	630	20, 25, 31.5	275	838	838	852	882	Ø35	700
	1250	20, 25, 31.5						Ø49	

Note: 58-Pin plug provided.

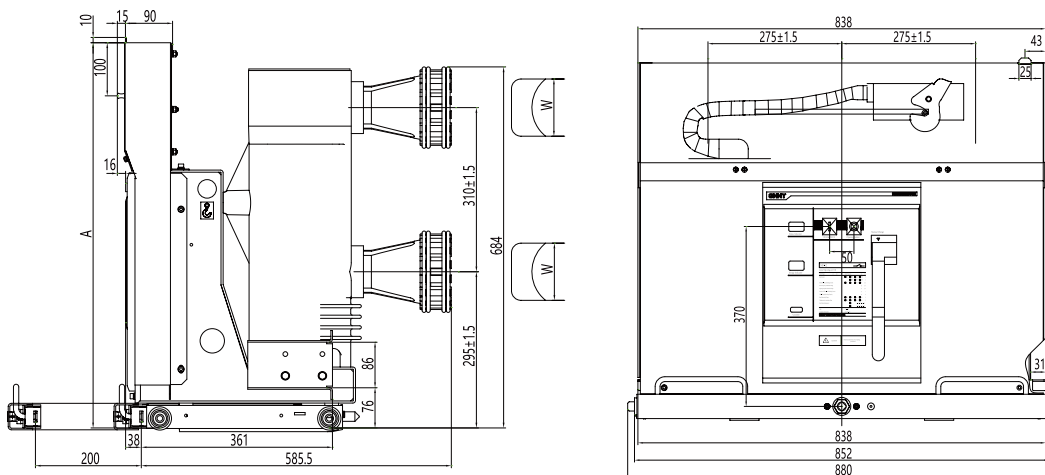


Figure 5 Outline and assembling sizes of trolley type circuit breaker (Distance between poles 275mm)

Table 5 Parameter and sizes of co-ordinated fixed contact

VCB Dim mm	NXV-12/1600	NXV-12/T2000	NXV-12/T2500	NXV-12/T3150
W	Ø79		Ø109	
A	696.5		727.5	

Notes: Tube Length 700mm, 58-Pin Plug

Fixed type

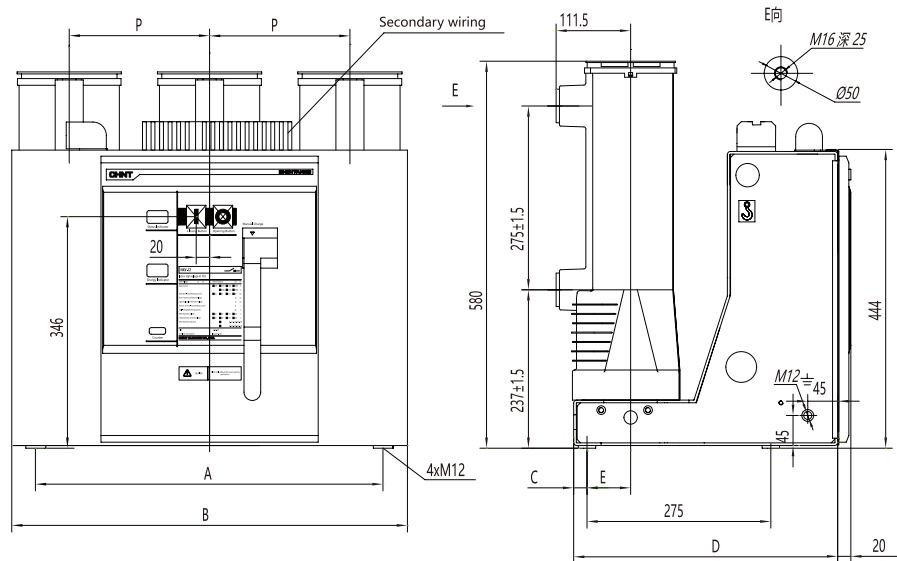


Fig.6 The outline and assembling sizes of fixed type VCB

Table 6 Parameter

P	A	B	C	D	E
150	400	450	45	395	40
210	520	588	20	395	65
275	720	770	40	415	65

Notes: for breaker with rated current  $\leq 630\text{A}$  , $1250\text{A}$   
Rated  $I_{sc} \leq 31.5\text{kA}$

3150A withdrawable type

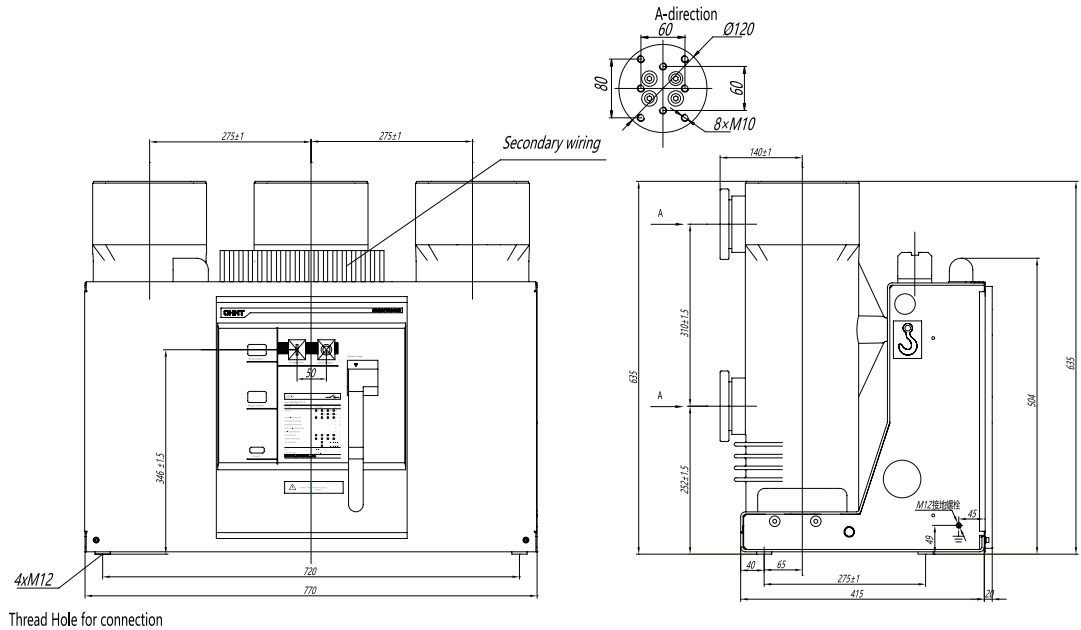


Fig.7 The outline and assembling sizes of fixed type VCB ( Distance between poles 275mm)

Note: for rated current 1600A~3150A



## 6.Internal wiring diagram

The internal electrical control principle of the circuit breaker is shown in Figure 2 handcart and figure 3 fixed.

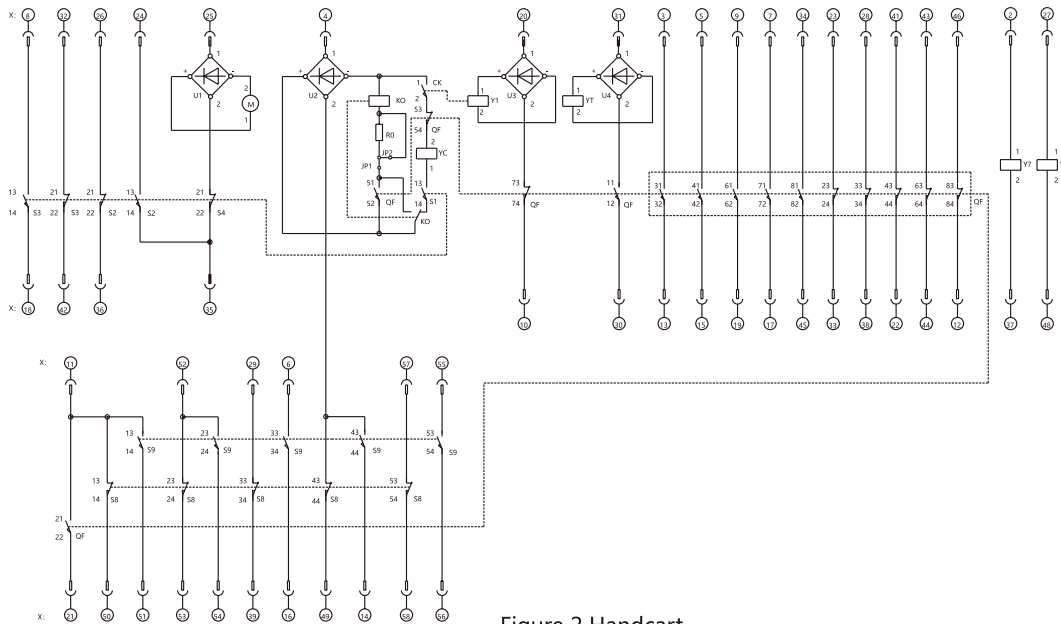


Figure 2 Handcart

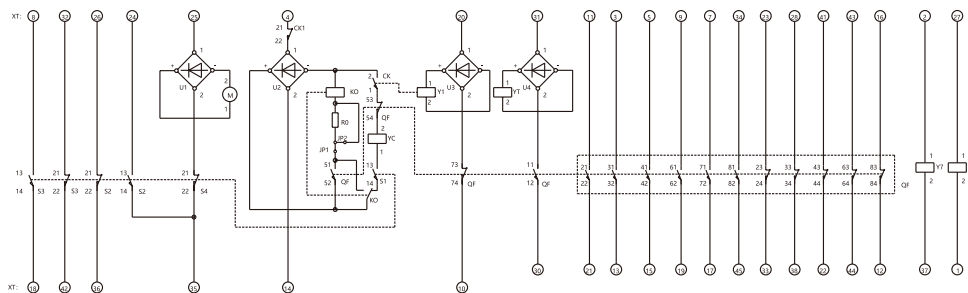


Figure 3 Fixed form

S1, S2, S3, S4- energy storage position switch M- energy storage motor YC- closing coil YT- reclosing coil Y1- locking electromagnet QF- and circuit breaker auxiliary switch X- two plug S8- handcart test position switch S9- hand position switch K0- skip relay

Note: The state of this diagram is that the circuit breaker is in the sluice, the non storage and the middle. This diagram shows only one of the schemes, and the actual product will be different because of the different requirements. Please refer to the random file.

## 7. Accessories

### Rack-in handle

## 8.Storage

The product should be stored indoors, keep dry, ventilated, away from serious pollution, chemical corrosion and violent vibration.

## 9.Order form

Product structure characteristics		Withdrawable type, Environmental friendly insulation cylinder, spring mechanism
Rated current (A)		<input type="checkbox"/> 630 <input type="checkbox"/> 1250 <input type="checkbox"/> 1600 <input type="checkbox"/> 2000 <input type="checkbox"/> 2500 <input type="checkbox"/> 3150
Rated short circuit breaking current (kA)		<input type="checkbox"/> 20 <input type="checkbox"/> 25 <input type="checkbox"/> 31.5 <input type="checkbox"/> 40
Phase-Phase distance (mm)		<input type="checkbox"/> 150 (only rated current ≤ 1250A) <input type="checkbox"/> 210 <input type="checkbox"/> 275
Pole distance (mm)		<input type="checkbox"/> 275 <input type="checkbox"/> 310
Engaging fixed contact diameter (mm)		<input type="checkbox"/> φ35 <input type="checkbox"/> φ49 <input type="checkbox"/> φ55 <input type="checkbox"/> φ79 <input type="checkbox"/> φ109
Spring mechanism	Charging motor (V)	<input type="checkbox"/> AC220 <input type="checkbox"/> AC110 <input type="checkbox"/> DC220 <input type="checkbox"/> DC110 <input type="checkbox"/> other:
	Opening/Closing coil (V)	<input type="checkbox"/> AC220 <input type="checkbox"/> AC110 <input type="checkbox"/> DC220 <input type="checkbox"/> DC110 <input type="checkbox"/> other:
	TBJ	<input type="checkbox"/> No <input type="checkbox"/> Yes
	Closing latching electromagnet	<input type="checkbox"/> No <input type="checkbox"/> Yes, supply voltage ( ) V <input type="checkbox"/> No (standard) <input type="checkbox"/> 2(Y7, Y8, Current is 5A)
	Overcurrent release	<input type="checkbox"/> Other:
Chassis	S8/S9 auxiliary contact	<input type="checkbox"/> 5 NO (standard) <input type="checkbox"/> 3 NO 2 NC
	latching electromagnet	<input type="checkbox"/> No (standard) <input type="checkbox"/> Yes, supply voltage ( ) V
	ground mode	<input type="checkbox"/> Bottom friction grounding (standard) <input type="checkbox"/> Ground clips on both sides are grounded
	Chassis handle	<input type="checkbox"/> standard, Elbow length 45mm <input type="checkbox"/> Elongated handle, 40mm increase in elbow length
Secondary outlet mode		58-pin plug
Secondary schematic diagram		<input type="checkbox"/> Chint standard ( See attached figure ) <input type="checkbox"/> users provide Altitude: ≤ 1000 m
Normal service conditions		Environment temperature: -5°C ~ +40°C The daily average relative humidity does not exceed 95%; The daily average steam pressure does not exceed 2.2kpa; Monthly average relative humidity does not exceed 90%; Monthly mean water vapor pressure does not exceed 1.8kPa
Other instructions		1. Attached 2 product outline drawings 2. Attached 2 standard secondary schematic diagrams . OZTC.354.443.1 (no closing lock, no overcurrent trip, S8/ S9:5 NO) OZTC.354.443.4 (with closing lock, no overcurrent trip, S8/ S9:5 NO) 3. Accessories: 1 secondary socket, 1 chassis handle, 1 energy storage handle, 1 snake tube, 2 secondary elbows, 1 bag of pins 4. Product performance conforms to the standard IEC62271-100 high voltage AC circuit breaker
Special requirements		
Product structure characteristics		Fixed type; Environmental friendly insulation cylinder, spring mechanism
Rated current (A)		<input type="checkbox"/> 630 <input type="checkbox"/> 1250 <input type="checkbox"/> 1600 <input type="checkbox"/> 2000 <input type="checkbox"/> 2500 <input type="checkbox"/> 3150
Rated short circuit breaking current (kA)		<input type="checkbox"/> 20 <input type="checkbox"/> 25 <input type="checkbox"/> 31.5 <input type="checkbox"/> 40