



SF6 Circuit Breaker (up to 252kV)
Disconnector (up to 252kV)
Earthing Switch (up to 252kV)

Brief Introduction

About CHINT Electric

CHINT Electric is a subsidiary of CHINT Group Corporation. With an investment of 450 million USD, CHINT Electric possesses 4300 employees and 5 manufacturing business units with manufactory area of 900,000m² located in Shanghai, which is one of the world's largest power transmission & distribution equipments manufactory centers.

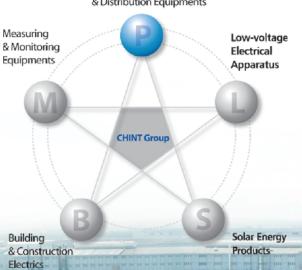
New Orders

Around 725 million USD in the year of 2012

Employee

4,300 employees

Power Transmission & Distribution Equipments













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 & Disconnector up to 252kV
- VCB 12~40.5kV
- MV & LV Switchgear Panel, Prifabricated 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 125 countries such as, Italy, Germany, Estonia, USA, Russia, Japan, Australia, Saudi Arabia, Poland, Ukraine, Mongolia, Kazakhstan, Pakistan, Myanmar, Indonesia, Thailand, Egypt, Yemen, 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 50 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
 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, SF6 circuit breaker.

ENDESA-Chile

Products: Power transformer, surge arrester, insulator, SF6 circuit breaker.

ICE-Costa Rica

Products: Power transformer.

PREPA-Puerto Rico

Products: Surge Arrester.

Asia-pacific

EVN-Vietnam

Products: Switch disconnector, power transformer, etc.

Kamoki-Pakistan

Products: Substation turn-key project.

MEPE-Myanmar

Products: Reactor, Power transformer.

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.

Africa

EEPCO-Ethiopia

Products: HV Circuit breaker, disconnector, earthing switch, surge arrester, insulator, CT.

ENE-Angola

Products: GIS

JIRAMA-Madagascar

Products: Reactor.

KENGEN-Kenya

Products: Surge arrester.

KPLC-Kenya

Products: Cut-out fuse, surge arrester, insulator.

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

NEC-Sudan

Products: Power transformer.

NEPCO-Jordan

Products: Power transformer, earthing transformer.

ONEC-Oman

Products: Power transformer.

PEC-Yemen

Products: Substation turn-key project.

• PEDEEE-Syria

Products: Insulator, surge arrester, substation turn-key project.

PEEGT-Syria

Products: Insulator.

TEIAS-Turkey

Products: Surge arrester, insulator.

WARD-Lebanon

Products: SF₆ circuit breaker, disconnector, surge arrester, insulator.

CIS

ENA-Armenia

Products: HV circuit breaker, switch disconnector, etc.

More >>>

Global Operation in Over 125 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: Disconnector.

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, disconnector, 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, disconnector, 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.

Engineering & Contracting

EIFFAGE-France

Products: Power transformer, reactor.

FLUOR-USA

Products: Power transformer.

More >>>

Turn-key Project

Kamoki-Pakistan

Projects: 230kV substation EPC.

Saint Gobain-France

Projects: 35kV substation EPC.

PEC-Yemen

Projects: 132kV and 33kV 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.

More >>>



Sales References

SF6 Circuit Breaker, Disconnector, Earthing Switch

CHINT Electric HV Switches are widely adopted by Utility Users from Armenia, Chile, Lebanon, Ethiopia, Tanzania, Ghana, Vietnam, Myanmar, Pakistan, Yemen, etc.; Industrial End Users from France, Australia, Kenya, Japan, Vietnam, etc. like JFE Steel and Engineering Companies from Lebanon, USA, Ghana, Vietnam, Bangladesh, Mongolia, etc.



Utility User

- Electric Networks of Armenia (ENA)- Armenia
- Enersis-Chile
- Electricity of Vietnam (EVN)-Vietnam
- · Volta River Authority (VRA)-Ghana
- Public Electricity Corporation (PEC)-Yemen
- Water Resources Utilization Department (WARD)-Lebanon
- Ethiopian Electric Power Corporation (EEPCO)-Ethiopia
- · Kamoki-Pakistan
- Tokyo Electric Power Company (TEPCO)-Japan
- Cement Plant-Vietnam
- Tanzania Electric Supply Company (TANESCO)-Tanzania
- Myanma Electric Power Enterprise (MEPE)-Myanmar
- Water Resources Utilization Department (WRUD)-Myanmar

Industrial End User

- Saint Gobain-France
- Fortescue Metals Group (FMG)-Australia

Engineering & Contracting

EIFFAGE-France

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* Note: Contact us for more detailed sales references.

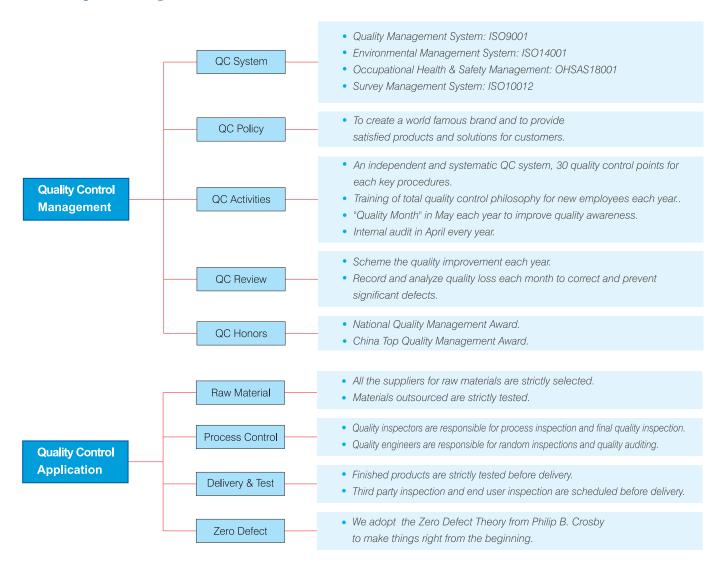


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Quality Management

Quality Management



QC System Certificate











Quality Management / Certification

Quality Management Procedure





testing transformer



252kV Disconnector under assembly



40.5kV SF₆ circuit breaker under commisioning







Certification

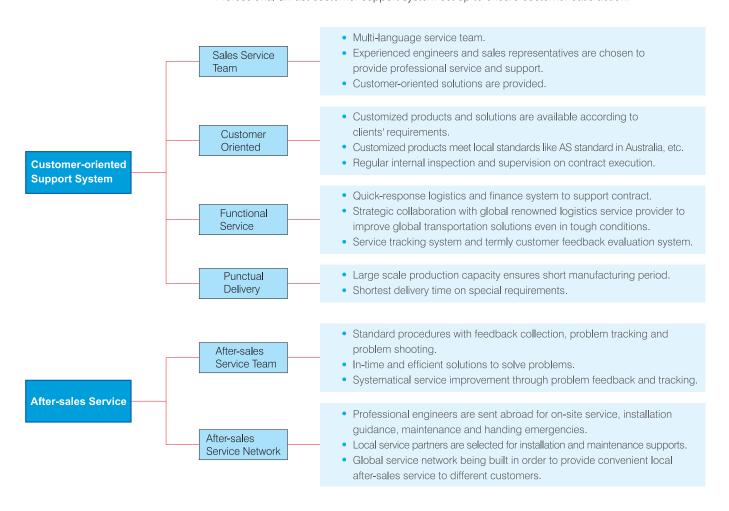
CHINT T&D's products are evaluated by STL (Short-Circuit Testing Liaison) laboratories such as KEMA, CESI, and other international certification like PCT (GOST), TUV; and tested by CNAS (ilac member in China) laboratories such as CTQC, SEPTDTC, etc.



Sales Service

Sales Service

Professional & Fast customer support system set up to ensure customer satisfaction:







- Installation of disconnector in ArmeniaInstallation training for local workers
- Installation of SF6 circuit breaker in Botswana





LW8-40.5 SF6 Circuit Breaker (Dead Tank) (40.5kV)

1 General

- 1.1 Application: three-phase AC 50Hz outdoor HV electrical apparatus with CT14 spring operating mechanism, for control and protection of 35kV transmission and distribution system as well as communicating with circuit breaker and open/close capacitor group.
- 1.2 Standard: IEC 62271-100.

2 Type Designation



3 Working Condition

- 3.1 Sunlight: 1000W/m²
- 3.2 Relative humidity: Daily average value is \leq 95%

Monthly average value is ≤90%

- 3.3 Max wind velocity: 34m/s
- 3.4 Seismic: Horizontal acceleration: 0.250g

Vertical acceleration: 0.125g

- 3.5 Pollution level: III (25 mm/kV)
- 3.6 Thickness of ice covering: 10 mm $\,$
- 3.7 Protection degree: IP5XW
- % Note: Customized products are available.

4 Technical Parameter

4.1 Main Technical Parameter of Circuit Breaker

| Item | | Unit | Parameter | Parameter | | | | |
|--|-------------------------------------|------|---------------|-------------------|------------|------------|--|--|
| Altitude | | m | 1000 | | 2000 | 2000 | | |
| Ambient air temperatu | ire | _ | -30°C∼40°C | -40°C∼40°C | -30°C∼40°C | -40°C∼40°C | | |
| Rated voltage | | kV | 40.5 | | 40.5 | | | |
| Rated frequency | | Hz | 50 | | 50 | | | |
| Rated current | | Α | 2000 | | 2000 | | | |
| Rated short-circuit breaking current for Isc | | kA | 31.5 | 25 | 31.5 | 25 | | |
| Rated short-time withstand current/continuous time | | kA/s | 31.5/4 | 25/4 | 31.5/4 | 25/4 | | |
| Rated peak withstand | Rated peak withstand current (peak) | | 80 | 63 | 80 | 63 | | |
| Rated short-circuit making of | current (peak) | kA | 80 | 63 | 80 | 63 | | |
| First-pole-to clear fact | or | _ | 1.5 | | 1.5 | | | |
| Rated out-of-phase br | eaking current | kA | lsc×25% | | lsc×25% | | | |
| Power frequency | Open contacts | kV | 95+24 | 95 | 95 | 95 | | |
| withstand voltage for 1min | To earth | KV | 95 | 95 | 95 | 95 | | |
| Lightning impulse Open contacts | | kV | 185+33 | 185 | 185 | 185 | | |
| withstand voltage (peak) | To earth | κv | 185 | 185 | 185 | 185 | | |
| Rated operating sequence | | _ | O-0.3s-CO-3mi | O-0.3s-CO-3min-CO | | | | |

4.2 Installation and Adjusting Parameters of Circuit Breaker

| Item | Unit | Parameter |
|-------------------------|------|---------------|
| Moving contact travel | mm | 95±2 |
| Contact open distance | mm | 60 ± 1.5 |
| Closing synchronization | ms | ≤3 |
| Opening synchronization | ms | ≤2 |
| Main circuit resistance | μΩ | ≤120 |
| Rigid closing speed | m/s | 3.2 ± 0.2 |
| Rigid opening speed | m/s | 3.4 ± 0.2 |

1300 630 630 Secondary cable in the cable chute 450 3100 1300 Bolt GB/T799 M20 × 500 zincing 4-<u>Φ40(outlet h</u>ole) Outlet terminal size 60×3=180 Centreline of B phase of circuit breaker 900 2150 ф 50 110 2900

5 Outline and Installation Dimension (Unit: mm)

6 Ordering Information

- 6.1 Model.
- 6.2 Rated electric parameters.
- 6.3 Service environment conditions.
- 6.4 Voltage of control supply.
- 6.5 Quantity, ratio, capacity, and accuracy of current transformers.
- 6.6 The quantity of necessary spare parts, accessories, special tools and equipments.
- $\ensuremath{\mathbb{X}}$ Note: Customized products are available.



LW8A-40.5 SF6 Circuit Breaker (Live Tank) (40.5kV)

1 General

- 1.1 Application: three-phase AC 50Hz outdoor HV electrical apparatus with CT14 spring operating mechanism, for control and protection of 40.5kV power system as well as communicating with circuit breaker. Current transformer inside as well for measuring and protection.
- 1.2 Standard: IEC 62271-100.

2 Type Designation



3 Working Condition

- 3.1 Sunlight: 1000W/m²
- 3.2 Relative humidity: Daily average value is ${\leqslant}95\%$

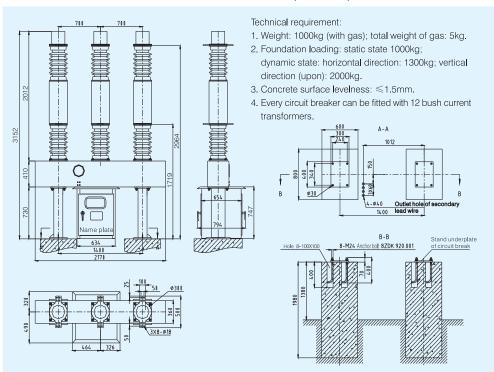
Monthly average value is ≤90%

- 3.3 Max wind velocity: 34m/s
- 3.4 Seismic: Horizontal acceleration: 0.250g

 Vertical acceleration: 0.125g
- 3.5 Pollution level: III (25mm/kV)
- 3.6 Thickness of ice covering: 10mm (when wind speed \leq 15m/s)
- 3.7 Protection degree: IP5XW
- * Note: Customized products are available.

| Item | | Unit | Parameter | Parameter | | | |
|--|-------------------------------------|------|--------------|-----------|------------|------------|--|
| Altitude | | m | 1000 | 1000 | | | |
| Ambient air temp | perature | _ | -30°C∼40°C | -40℃~40℃ | -30°C∼40°C | -40°C∼40°C | |
| Rated voltage | | kV | 40.5 | | 40.5 | | |
| Rated frequency | | Hz | 50 | | 50 | | |
| Rated current | | Α | 2000 | | 2000 | | |
| Rated short-circuit bro | eaking | kA | 31.5 | 25 | 31.5 | 25 | |
| Rated short-time with continuous time | Rated short-time withstand current/ | | 31.5/4 | 25/4 | 31.5/4 | 25/4 | |
| Rated peak withstand | Rated peak withstand current (peak) | | 80 | 63 | 80 | 63 | |
| Rated short-circuit ma (peak) | aking current | kA | 80 | 63 | 80 | 63 | |
| First-pole-to clea | r factor | _ | 1.5 | | 1.5 | | |
| Rated out-of-phase b | reaking current | kA | lsc×25% | | lsc×25% | | |
| Power frequency | Open contacts | kV | 95+24 | 95 | 95 | 95 | |
| withstand voltage for 1min | To earth | KV | 95 | 95 | 95 | 95 | |
| Lightning impulse withstand voltage | Open contacts | kV | 185+33 | 185 | 185 | 185 | |
| (peak) | To earth | ۲۷ | 185 | 185 | 185 | 185 | |
| Rated operating sequence | | _ | O-0.3s-CO-3r | nin-CO | | | |

5 Outline and Installation Dimension (Unit: mm)



6 Ordering Information

- 6.1 Model.
- 6.2 Rated electric parameters.
- 6.3 Service environment conditions.
- 6.4 Voltage of control supply.
- 6.5 Quantity ,ratio, capacity and accuracy of current transformers.
- 6.6 The quantity of necessary spare parts, accessories, special tools and equipments.
- * Note: Customized products are available.





LW36-126 SF6 Circuit Breaker (126kV)

1 General

- 1.1 Application: three-pole AC 50Hz outdoor HV electrical apparatus, for control and protection of 110kV power system as well as communicating with circuit breaker.
- 1.2 Standard: IEC 62271-100.

2 Type Designation



3 Working Condition

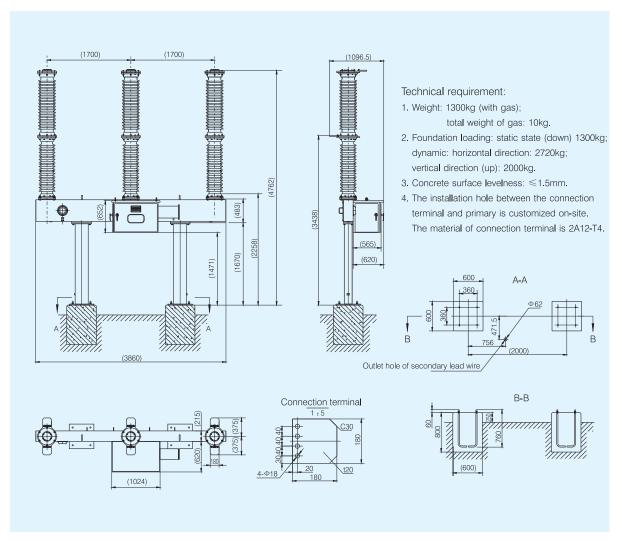
- 3.1 Daily temperature variation: ≤25°C
- 3.2 Sunshine: 0.1 W/cm²
- 3.3 Relative humidity: Daily average value \leq 95% Monthly average value \leq 90%
- 3.4 Wind velocity: 34 m/s
- 3.5 Seismic: Horizontal acceleration is 0.250g

Vertical acceleration is 0.125g

- 3.6 Pollution level: III (25mm/kV), IV (31mm/kV)
- 3.7 Thickness of ice covering: 10 mm (the wind velocity ${\leqslant}15\text{m/s})$
- 3.8 Protection degree: IP5XW
- * Note: Customized products are available.

| Item | Unit | it Parameter | | | | | |
|---|------|---------------------------------------|------------|----------|------------|--|--|
| Altitude | m | 10 | 00 | 2000 | | | |
| Ambient air temperature | _ | -30°C∼40°C | -40°C∼40°C | -30℃~40℃ | -40°C∼40°C | | |
| Rated voltage | kV | | 12 | 6 | | | |
| Rated frequency | Hz | | 50 | | | | |
| Rated current | Α | | 31 | 50 | | | |
| Rated short-circuit breaking current for Isc | kA | 40 | 31.5 | 40 | 31.5 | | |
| Rated short-circuit making current (peak) | kA | 100 | 80 | 100 | 80 | | |
| Rated short-time withstand current/continuous time | kA | 40 | 31.5 | 40 | 31.5 | | |
| Rated short-time withstand continuous time | S | 4 4 | | 4 | 4 | | |
| Rated peak withstand current (peak) | kA | 100 | 80 | 100 | 80 | | |
| Short-line fault breaking current | kA | $Isc \times 90\%$, $Isc \times 75\%$ | | | | | |
| Rated out-of-phase breaking current | kA | Isc×25% | | | | | |
| First-pole-to clear factor | _ | 1.5 | | | | | |
| Rated line charging open/close current | Α | | 31 | .5 | | | |
| Rated out-phase earthing interrupting current | Α | | Isc | ×87% | | | |
| Power frequency withstand voltage Open contacts | kV | 230+73 | 230 | 210 | 210 | | |
| for 1min Between poles / to earth | ΝV | 230 | 230 | 210 | 210 | | |
| Lightning impulse open contacts withstand voltage | kV | 550+103 | 550 | 450 | 450 | | |
| (peak) Between poles / to earth | ΓV | 550 | 550 | 450 | 450 | | |
| Rated operating sequence | - | O-0.3s-CO-3min-CO | | | CO | | |

5 Outline and Installation Dimension (Unit:mm)



6 Ordering Information

- 6.1 Model.
- 6.2 Rated electric parameters(voltage, current).
- 6.3 Service environment conditions.
- 6.4 Voltage of control supply.
- 6.5 Wiring direction of primary terminal.
- 6.6 The quantity of necessary spare parts, accessories, special tools and equipments.

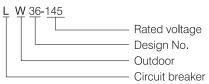


LW36-145 SF6 Circuit Breaker (145kV)

1 General

- 1.1 Application: three-phase AC 50Hz outdoor/indoor HV electrical apparatus, for control and protection of 132kV power system as well as communicating with circuit breaker.
- 1.2 Standard: IEC 62271-100.

2 Type Designation



3 Working Condition

- 3.1 Altitude: ≤1000m
- 3.2 Ambient air temperature: $-30^{\circ}\text{C} \sim +40^{\circ}\text{C}$
- 3.3 Daily temperature variation: ≤ 25°C
- 3.4 Sunshine: 0.1 W/cm²
- 3.5 Relative humidity: Daily average value \leq 95%

Monthly average value ≤90%

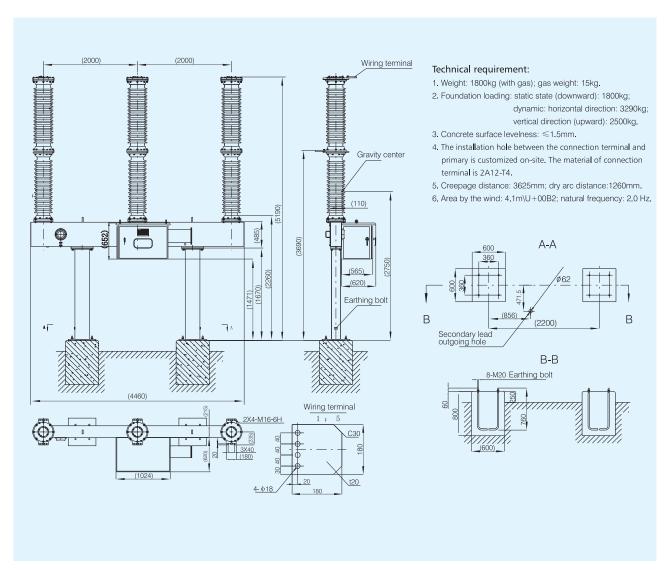
- 3.6 Max wind velocity: 34m/s
- 3.7 Seismic: Horizontal acceleration is 0.250g

Vertical acceleration is 0.125g

- 3.8 Pollution level: III (25mm/kV), IV (31mm/kV)
- 3.9 Thickness of ice covering: 10 mm (the wind velocity ${\leqslant}15\text{m/s})$
- * Note: Customized products are available.

| Item | | | Parameter | | | | | |
|--|--------------------------------|------|------------------|--------------------|------------------|------------------|--|--|
| Altitude | | m | 10 | 00 | 2000 | | | |
| Ambient air temperature | | _ | -30°C∼40°C | - 40°C∼40°C | - 30℃~40℃ | - 40℃~40℃ | | |
| Rated voltage | | kV | | 1 | 45 | | | |
| Rated frequency | | Hz | 50 | | 60 |) | | |
| Rated current | | Α | | 3 | 3150 | | | |
| Rated short-circuit breaking current lsc | | kA | 40 | 31.5 | 31.5 | 25 | | |
| Rated short time withstand current/continuous time | | kA/S | 40/3 | 31.5/3 | 31.5/3 | 25/3 | | |
| Rated withstand current (peak) | Rated withstand current (peak) | | 100 | 80 | 80 | 63 | | |
| Rated short-circuit making curr | ent (peak) | kA | 100 | 80 | 80 | 63 | | |
| First-pole-to clear factor | | _ | 1.5 | | | | | |
| Nearby area fault breaking curr | ent | kA | Isc×90%, Isc×75% | | | | | |
| Rated out-of-phase breaking co | urrent | kA | | Isc×25% | | | | |
| Power frequency withstand | Open contacts | kV | 275 + 84 | 275 | 275 + 84 | 275 | | |
| voltage for 1min (effective value) | To earth | KV | 275 | 275 | 275 | 275 | | |
| Lightning impulse | Open contacts | kV | 650+119 | 650 | 650 + 119 | 650 | | |
| withstand voltage (peak) | To earth | ΚV | 650 | 650 | 650 | 650 | | |
| Rated operating sequence | | _ | | O-0.3s-C | O-3min-CO | | | |

5 Outline and Installation Dimension (Unit:mm)



6 Ordering Information

- 6.1 Model.
- 6.2 Rated electrical parameters (voltage, current).
- 6.3 Service environment conditions.
- 6.4 Voltage of control supply and auxiliary supply.
- 6.5 The quantity of necessary spare parts, accessories, special tools and equipments.



LW43-252 SF6 Circuit Breaker (252kV)

1 General

- 1.1 Application: three-phase AC 50Hz outdoor HV electrical apparatus, for control and protection of 220kV power system as well as communicating with circuit breaker.
- 1.2 Standard: IEC 62271-100.

2 Type Designation



3 Working Condition

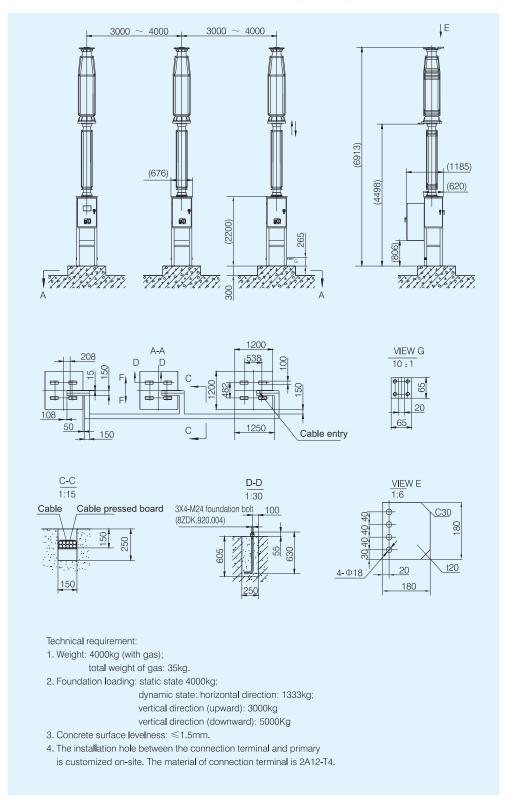
- 3.1 Daily temperature variation: \leq 25 °C
- 3,2 Sunshine: 0,1W/cm²
- 3.3 Relative humidity: Daily average value ≤95%
 - Monthly average value ≤90%
- 3.4 Max wind velocity: 34m/s
- 3.5 Seismic: Horizontal acceleration: 0.250g

Vertical acceleration: 0.125g

- 3.6 Pollution level: III (25mm/kV), IV (31mm/kV)
- 3.7 Thickness of ice covering: 10 mm (the wind velocity \leq 15m/s)
- 3.8 Protection degree: IP5XW
- * Note: Customized products are available.

| Item | | Unit | Parameter | | | | | |
|--|------------------------------------|------|---------------------------------------|--------------------|------------|----------|--|--|
| Altitude | | m | 100 | 1000 | | 00 | | |
| Ambient air temperatur | e | _ | -30℃~40℃ | - 40°C∼40°C | -30°C∼40°C | -40℃~40℃ | | |
| Rated voltage | | kV | | 252 | | | | |
| Rated frequency | | Hz | | 50 | | | | |
| Rated current | | Α | 4000 | 3150 | 4000 | 3150 | | |
| Rated short-circuit breaking | current for Isc | kA | 50 | 40 | 50 | 40 | | |
| Rated short-circuit making of | current (peak) | kA | 125 | 100 | 125 | 100 | | |
| Rated short-time withst | Rated short-time withstand current | | 50 | 40 | 50 | 40 | | |
| Rated short-time withstand continuous time | | S | 3 | 3 | 3 | 3 | | |
| Rated peak withstand | current (peak) | kA | 125 | 100 | 125 | 100 | | |
| Short-line fault breaking | g current | kA | $Isc \times 90\%$, $Isc \times 75\%$ | | | | | |
| Rated out-of-phase bre | aking current | kA | Isc×25% | | | | | |
| First-pole-to clear facto | r | _ | | 1.5 | | | | |
| Rated line charging ope | n/close current | Α | | 160 | | | | |
| On-load transformer bre | aking current | Α | | 0.5~ | -20 | | | |
| Power frequency | Open contacts | kV | 460; 395+145 | 395 | 395 | 395 | | |
| withstand voltage for 1min | To earth | ΚV | 460 | 395 | 395 | 395 | | |
| Lightning impulse | Open contacts | kV | 1050; 950+206 | 950 | 950 | 950 | | |
| withstand voltage (peak) | To earh | ٨V | 1050 | 950 | 950 | 950 | | |
| Rated operating seque | nce | _ | O-0.3s-CO-3min-CO | | | | | |

5 Outline and Installation Dimension (Unit:mm)



6 Ordering Information

- 6.1 Model.
- 6.2 Rated electric parameters(voltage, current.
- 6.3 Service environment conditions.
- 6.4 Voltage of control supply.
- 6.5 Wiring direction of primary terminal.
- 6.6 The quantity of necessary spare parts, accessories, special tools and equipments.
- % Note: Customized products are available.







- 1.1 Application: three-pole AC 50Hz outdoor HV electrical apparatus for control and protection in 220kV power system as well as communicating with circuit breaker.
- 1.2 Standard: IEC 62271-100.

2 Type Designation



3 Working Condition

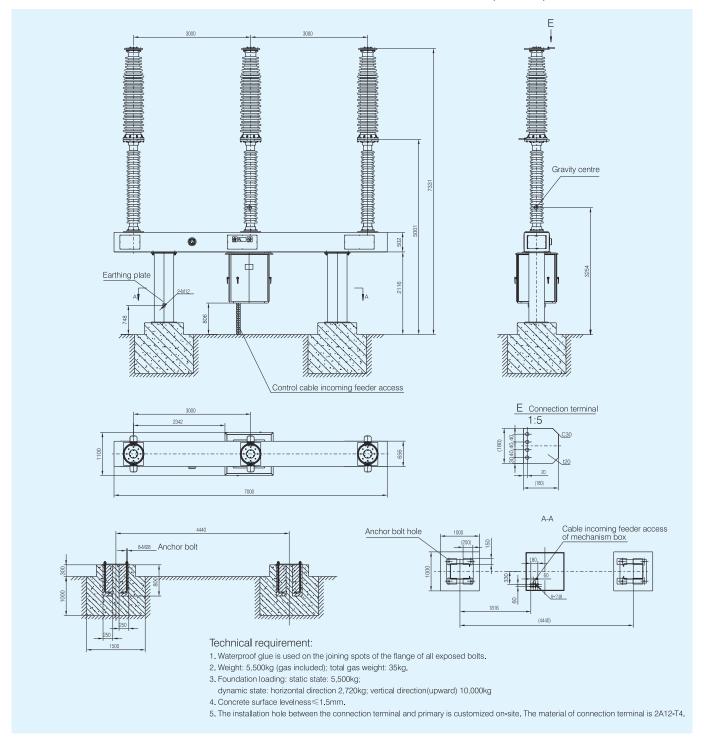
- 3.1 Altitude: ≤1000m; special area ≤3000m
- 3.2 Daily temperature variation: ≤25 °C
- 3.3 Ambient air temperature: -40 $^{\circ}$ C \sim +40 $^{\circ}$ C
- 3.4 Max wind velocity: 34m/s
- 3.5 Seismic: Horizontal acceleration: 0.250g
 - Vertical acceleration: 0.125g
- 3. 6 Thickness of ice covering: \leq 10mm
- 3.7 Relative humidity: Daily average ≤95%
 - Monthly average ≤90%
- 3.8 Pollution level: III (25mm/kV), IV (31mm/kV)
- 3.9 Protection degree: IP5XW

| Item | Unit | Parameter | | | | | | |
|---|------|---------------------------------------|--------------------|----------|------------|--|--|--|
| Altitude | | 10 | 1000 | | 000 | | | |
| Ambient air temperature | _ | -30℃~40℃ | - 40°C∼40°C | -30℃~40℃ | -40°C∼40°C | | | |
| Rated voltage | kV | | 252 | | | | | |
| Rated frequency | Hz | | 50 | | | | | |
| Rated current | Α | 4000 | 3150 | 4000 | 3150 | | | |
| Rated short-circuit breaking current for Isc | kA | 50 | 40 | 50 | 40 | | | |
| Rated short-circuit making current (peak) | kA | 125 | 100 | 125 | 100 | | | |
| Rated short-time withstand current | kA | 50 | 40 | 50 | 40 | | | |
| Rated short-time withstand continuous time | S | 3 | 3 | 3 | 3 | | | |
| Rated peak withstand current (peak) | kA | 125 | 100 | 125 | 100 | | | |
| Short-line fault breaking current | kA | $lsc \times 90\%$, $lsc \times 75\%$ | | | | | | |
| Rated out-of-phase breaking current | kA | lsc×25% | | | | | | |
| First-pole-to clear factor | _ | | 1.5 | | | | | |
| Rated line charging open/close current | Α | | 160 | | | | | |
| On-load transformer breaking current | Α | | 0.5 | ~20 | | | | |
| Power frequency Open contacts | kV | 460; 460+145 | 460 | 460 | 460 | | | |
| withstand voltage for 1min (effective value) To earth | ٨V | 460 | 460 | 460 | 460 | | | |
| Lightning impulse Open contacts withstand voltage | kV | 1050; 1050+206 | 1050 | 1050 | 1050 | | | |
| (peak) To earh | r. v | 1050 | 1050 | 1050 | 1050 | | | |
| Rated operating sequence | _ | O-0.3s-CO-3min-CO | | | | | | |





5 Outline and Installation Dimension (Unit:mm)



6 Ordering Information

- 6.1 Model.
- 6.2 Rated electric parameters (voltage, current)
- 6.3 Service environment conditions.
- 6.4 Voltage of control supply.
- 6.5 Wiring direction of primary terminal.
- 6.6 The quantity of necessary spare parts, accessories, special tools and equipments.
- * Note: Customized products are available.



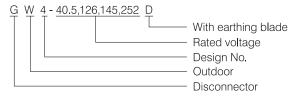


GW4 Series Outdoor AC Disconnector (40.5kV/126kV/145kV/252kV)

1 General

- 1.1 Application: three-phase AC 50Hz outdoor HV electrical apparatus, for switching under no-load condition and electrical disconnecting between electrical apparatus and live circuit in rated voltage 35~220kV power system.
- 1.2 Standard: IEC 62271-102.

2 Type Designation



3 Working Condition

3.1 Altitude: ≤2000m

3.2 Ambient air temperature: -40°C~+40°C

3.3 Max wind velocity: 34m/s

3.4 Seismic: Horizontal acceleration: 0,250g

Vertical acceleration: 0.125g

3.5 Thickness of ice covering: ${\leqslant}10\text{mm}$

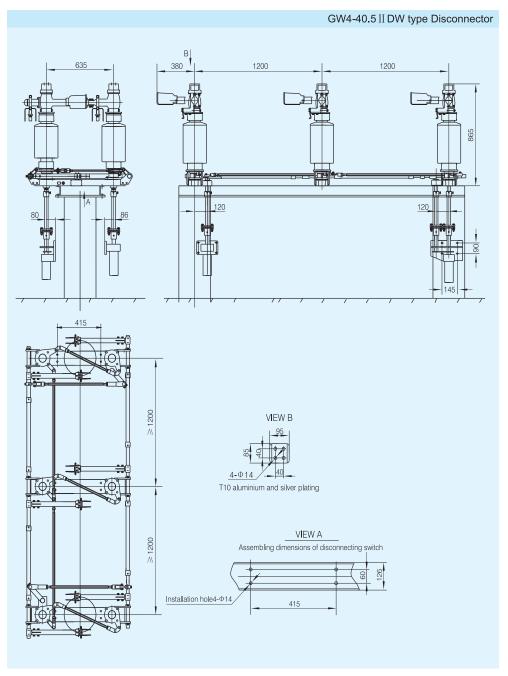
3.6 Pollution level of insulator: III (25mm/kV), IV (31mm/kV)

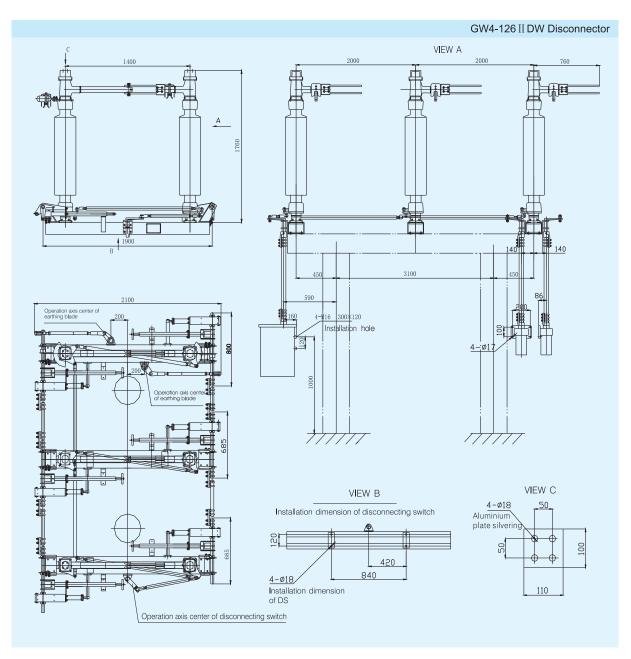
3.7 Installation area without fire, explosion, chemical corrosion and frequent shocking

| Item | | Unit | Parameter | | | | |
|----------------------------------|-------------------|-------------------------|-----------|------|-----------|------|-----------|
| Rated voltage | | kV | 40.5 | 126 | 145 | 252 | |
| Rated curre | nt | | Α | 2000 | 2000 | 2000 | 3150 |
| Rated short | time withstand of | current, 3s | kA | 40 | 40 | 40 | 50 |
| Rated peak | withstand curr | ent | kA | 80 | 100 | 100 | 125 |
| Rated pow | er frequency | To earth | kV | 95 | 230 | 275 | 460 |
| withstand v | oltage (rms) | Open contacts | kV | 110 | 230+70 | 315 | 460 + 145 |
| Rated light | ning impulse | To earth | kV | 185 | 550 | 650 | 1050 |
| withstand v | oltage (peak) | Open contacts | KV · | 215 | 550 + 100 | 750 | 1050+200 |
| Rated tension | on of | Longitudinal | | 750 | 1000 | 1000 | 1500 |
| connecting | | Horizontal | Ν | 400 | 750 | 750 | 1000 |
| 3 | | Vertical | | 500 | 1000 | 1000 | 1250 |
| Min failing | load | | N | 4000 | 6000 | 6000 | 8000 |
| ES induction | Electromagnetic | Rated induction current | Α | _ | 50 | 80 | 80 |
| current | coupling | Rated induction voltage | kV | _ | 0.5 | 2 | 1.4 |
| switching | Electrostatic | Rated induction current | А | _ | 0.4 | 2 | 1.25 |
| capability | coupling | Rated induction voltage | kV | _ | 3 | 6 | 5 |
| Open/close bus switching circuit | | Α | _ | 1600 | 1600 | 1600 | |
| Mechanical | Mechanical life | | Time | 3000 | 3000 | 3000 | 3000 |
| Single pole | weight | | kg | 80 | 240 | 300 | 650 |
| Single pole | weight | | кд | 80 | 240 | 300 | 650 |

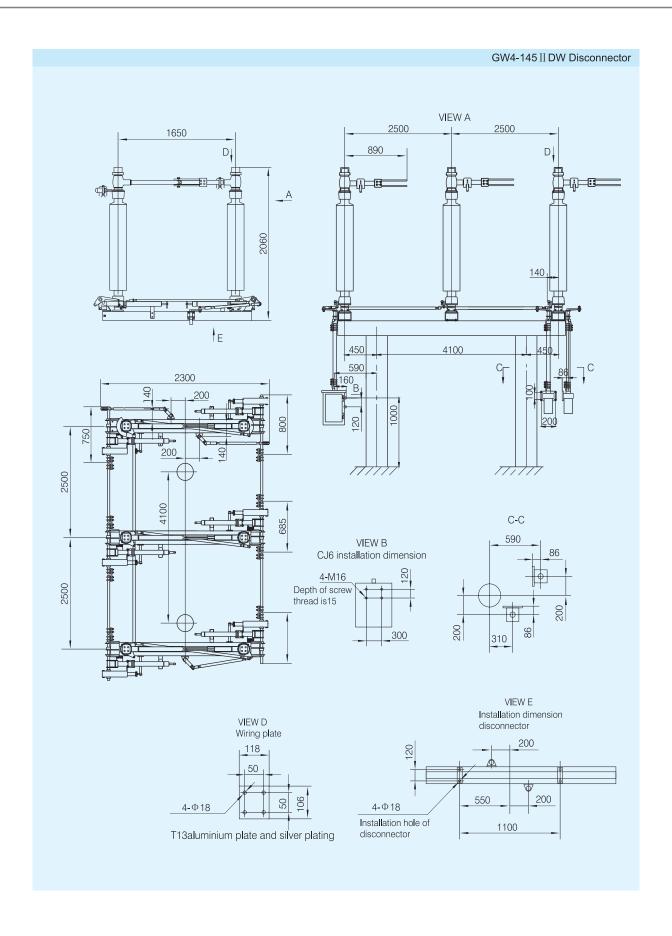
5 Outline and Installation Dimension (Unit: mm)

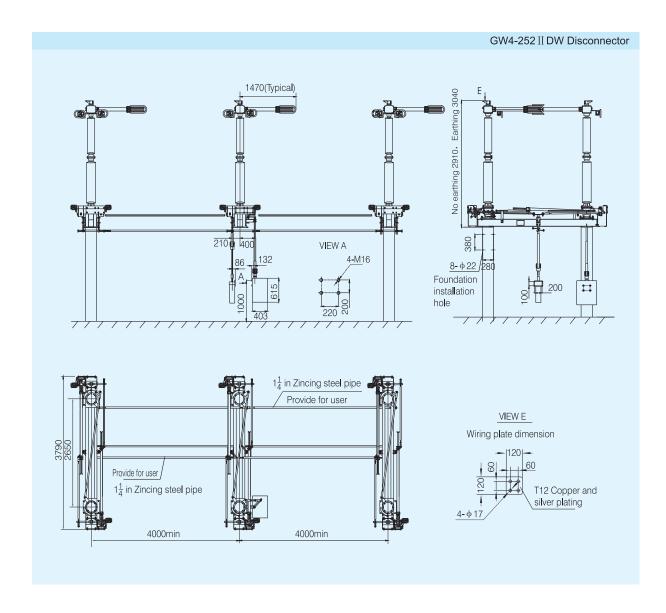












6 Ordering Information

- 6.1 Model, specification and quantity of disconnector.
- 6.2 Rated current, rated short time and peak withstand current.
- 6.3 Pollution level and altitude.
- 6.4 Please indicate whether fitted with earthing blade, in which side and whether fitted with electromagnetic lock.
- 6.5 The electric motor voltage, control voltage and auxiliary poles of electric operation mechanism.

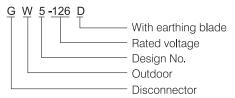


GW5-126 Outdoor AC Disconnector (126kV)

1 General

- 1.1 Application: three-phase AC 50Hz outdoor HV electrical apparatus, for switching under no-load condition and electrical disconnecting between electrical apparatus under repairing and live HV circuit in rated voltage 110kV power system.
- 1.2 Standard: IEC 62271-102.

2 Type Designation



3 Working Condition

3.1 Altitude: ≤2000m

3.2 Ambient air temperature: -40°C~+40°C

3.3 Max wind velocity: 34m/s

3.4 Seismic: Horizontial acceleration: 0.250g

Vertical acceleration: 0.125g

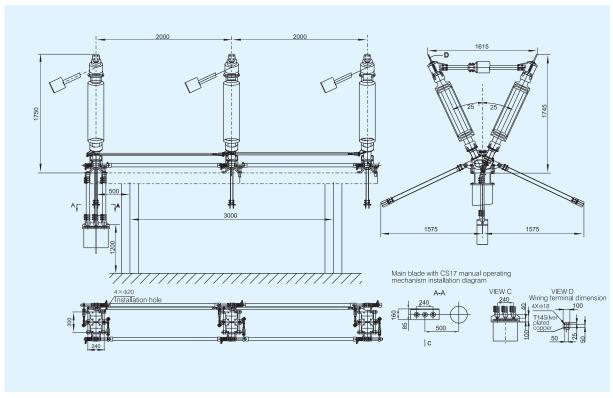
3.5 Thickness of ice covering: \leq 10mm 3.6 Pollution level of insulator: III (25mm/kV), IV (31mm/kV)

3.7 Installation area without fire, explosion, chemical corrosion and frequent shocking.

| Item | | | | | Unit | Parameter |
|----------------------------------|------------|--------------------|----------------------------|-------------------|---------|-----------|
| Rated voltage | | kV | 126 | | | |
| Rated current | | | | | Α | 2000 |
| Rated withstand | current | (peak) | | | kA | 100 |
| Rated short time | e withstar | nd current, 3s | (effective | value) | kA | 40 |
| Rated frequency | , | | | | Hz | 50 |
| Earthing switch | Rated wit | hstand current (p | eak) | | kA | 100 |
| Earthing Switch | Rated sho | ort time withstand | current, 3s | (effective value) | kA | 40 |
| | | | | Longitudinal | Ν | 1000 |
| Rated tension o | f connect | ting terminals | | Horizontal | Ν | 750 |
| | | | | Vertical | Ν | 1000 |
| | Rated sh | ort time power fr | equency_ | To earth | kV | 230 |
| Rated insulation | withstand | voltage (effective | oltage (effective value) C | | kV | 230+70 |
| level | _ | 0 1 | npulse withstand To earth | | kV | 550 |
| | voltage (| peak) | Open contacts | kV | 550+100 | |
| | | Electromagnet | Rated in | nduction current | А | 50 |
| Earthing switch inc | | coupling | Rated in | nduction voltage | kV | 0.5 |
| current open/close | capability | Electrostatic | Rated in | nduction current | Α | 0.4 |
| coupling Rate | | | | nduction voltage | kV | 3 |
| Open/close bus switching circuit | | | | | | 1600 |
| Mechanical life | | | | | | 3000 |
| Disconnetor circuit resistance | | | | | | 85 |
| Single pole weigh | ght | | | | kg | 230 |

5 Outline and Installation Dimension (Unit: mm)

GW5-126IIDW Disconnector



6 Ordering Information

- 6.1 Model, specification and quantity.
- 6.2 Rated current, rated short time and peak withstands current, pollution level of porcelain.
- 6.3 Please indicate whether fitted with earthing blade, on which side and whether fitted with electro magnetic lock.
- $\ensuremath{\mathbb{X}}$ Note: Customized products are available.

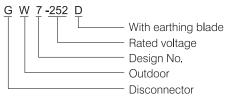




1 General

- 1.1 Application: three-phase AC 50Hz outdoor HV electrical apparatus, for switching under no-load condition and electrical disconnecting between electrical apparatus under repairing and live HV circuit in rated voltage 220kV power system.
- 1.2 Standard: IEC 62271-102.

2 Type Designation



3 Working Condition

3.1 Altitude: ≤2000m

3.2 Ambient air temperature: -40°C \sim +40°C

3.3 Max wind velocity: 34m/s

3.4 Seismic: Horizontial acceleration: 0.250g

Vertical acceleration: 0.125g

3.5 Thickness of ice covering: ≤10mm

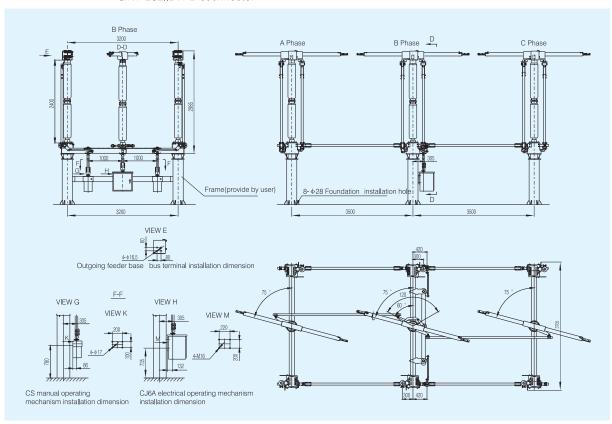
3.6 Pollution level of insulator: III(25mm/kV), IV(31mm/kV)

3.7 Installation area without fire, explosion, chemical corrosion and frequent shocking.

| Item | | | | | | Parameter |
|---------------------|--------------|--------------------|----------------------|---------------------|----|------------|
| Rated voltage | | KV | 252 | | | |
| Rated current | | | | | Α | 5000 |
| Rated withstand | current | (peak) | | | kA | 160 |
| Rated short time | e withstar | nd current, 3s | (effective | e value) | kA | 63 |
| Rated frequency | / | | | | Hz | 50 |
| Forthing owitch | Rated wit | hstand current (p | oeak) | | kA | 160 |
| Earthing switch | Rated sho | ort time withstand | current, 3s | s (effective value) | kA | 63 |
| | | | | Longitudinal | Ν | 1500 |
| Rated tension o | f connect | ting terminals | | Horizontal | N | 1000 |
| | Vertica | | | | N | 1250 |
| | Rated sh | ort time power fi | requency | To earth | kV | 460 |
| Rated insulation | withstand | voltage (effectiv | e value) | Open contacts | kV | 460+145 |
| level | Lightning | impulse withsta | impulse withstand To | | kV | 1050 |
| | voltage (| oeak) | | Open contacts | kV | 1050 + 200 |
| | | Electromagnet | Rated i | nduction current | Α | 80 |
| Earthing switch inc | | coupling | Rated i | nduction voltage | kV | 2 |
| current open/close | capability | Electrostatic | Rated i | nduction current | А | 3 |
| | | coupling | Rated i | nduction voltage | kV | 12 |
| Open/close bus | switchin | Α | 1600 | | | |
| Mechanical life | | Time | 3000 | | | |
| Disconnetor circ | cuit resista | μΩ | 50 | | | |
| Single pole wei | ght | | | | kg | 1020 |

5 Outline and Installation Dimension (Unit: mm)

GW7-252IIDW Disconnector



6 Ordering Information

- 6.1 Model, specification and quantity.
- 6.2 Rated current, rated short time and peak withstands current.
- 6.3 Please indicate whether fitted with earthing blade, on which side and whether fitted with electromagnetic lock.
- 6.4 The electric motor voltage, control voltage and auxiliary poles of electric operating mechanism.
- % Note: Customized products are available.

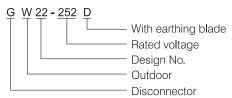


GW22-252 Outdoor AC Disconnector of Vertical single-column & Single-arm Flexible Fold Type (252kV)

1 General

- 1.1 Application: single-column single-arm vertical fold type three-phase AC 50Hz outdoor HV electrical apparatus, for switching under no-load condition and electrical disconnection between electrical apparatus and live circuit in rated voltage 252kV power system.
- 1.2 Standard: IEC 62271-102.

2 Type Designation

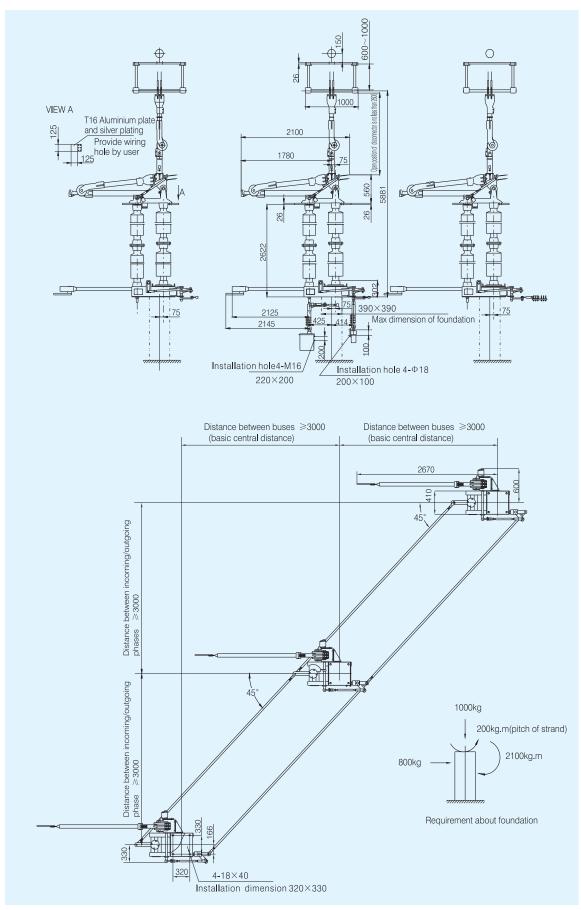


3 Working Condition

- 3.1 Altitude: ≤ 2000m
- 3.2 Ambient air temperature: -40 $^{\circ}$ C $^{\sim}$ +40 $^{\circ}$ C
- 3.3 Max wind velocity: 34m/s
- 3.4 Seismic: Horizontial acceleration: 0.250g Vertical acceleration: 0.125g
- 3.5 Thickness of ice covering: ≤ 10mm
- 3.6 Pollution level of insulator: III (25mm/kV), IV (31mm/kV)
- 3.7 Installation area without fire, explosion, chemical corrosion and frequent shocking.

| Item | | Unit | Parameter |
|-------------------------------------|---|------|-----------|
| Rated voltage | | | 252 |
| Rated current | | | 3150 |
| Rated short time withstand current, | Rated short time withstand current, 3s | | |
| Rated peak withstand current | | kA | 125 |
| Rated power frequency | To earth | kV | 460 |
| withstand voltage (rms) | Open contacts | KV | 460+145 |
| Rated lightning impulse | To earth | LA / | 1050 |
| withstand voltage (peak) | Open contacts | kV | 1050+200 |
| | Longitudinal | | 2000 |
| Mechanical strength of terminals | Horizontal | Ν | 1000 |
| | Vertical | | 1250 |
| Rated contact field | Total drift of Level Y | | 150 |
| (hard wire/soft wire) | Vertical shift Z | mm | 150 |
| , | Longitudinal displacement of support conductor X | | 150 |
| Min failing load | | Ν | 8000 |
| Electromagnetic | Rated induction current | Α | 80 |
| ES induction current coupling | Rated induction voltage | kV | 1.4 |
| switching capability Electrostatic | Rated induction current | Α | 1.25 |
| coupling | Rated induction voltage | kV | 5 |
| Open/close bus switching circuit | | Α | 1600 |
| Mechanical life | Mechanical life | | 3000 |
| Single pole weight | kg | 700 | |

5 Outline and Installation Dimension (Unit: mm)





6 Ordering Information

- 6.1 Model, specification and quantity of disconnector.
- 6.2 Rated current, rated short time and peak withstand current.
- 6.3 Pollution level and altitude.
- 6.4 Indicate if fitted with earthing blade or electromagnetic lock.
- 6.5 The electric motor voltage, control voltage and auxiliary poles of electric operation mechanism.
- Note: Customized products are available.



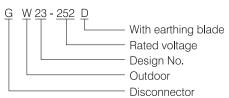


GW23-252 Outdoor AC Disconnector Of Horizontal Double-column & Single-arm Flexible Fold Type (252kV)

1 General

- 1.1 Application: double-column horizontal fold type three-phase AC 50Hz outdoor HV electrical apparatus, for switching under off-load condition and electrical disconnection between electrical apparatus and live circuit in rated voltage 220kV power system.
- 1.2 Standard: IEC 62271-102.

2 Type Designation



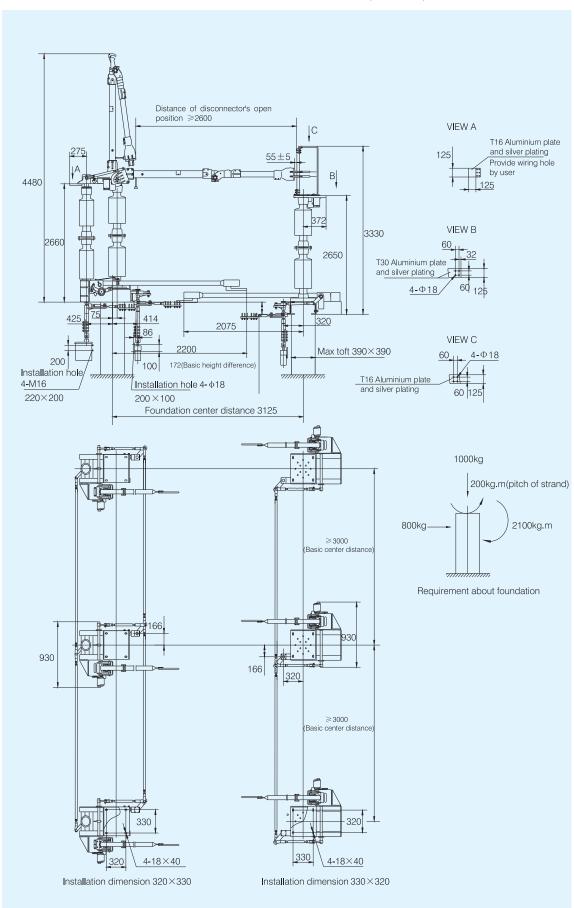
3 Working Condition

- 3.1 Altitude: ≤2000m
- 3.2 Ambient air temperature: -40°C~+40°C
- 3.3 Max wind velocity: 34m/s
- 3.4 Seismic: Horizontal acceleration: 0.250g

 Vertical acceleration: 0.125g
- 3.5 Thickness of ice: ≤10mm
- 3.6 Pollution level of insulator: III(25mm/kV), IV(31mm/kV)
- 3.7 Installation area without fire, explosion, chemical corrosion and frequent shocking

| Item | Item | | Unit | Parameter |
|--|---------------------------------------|-------------------------|--------|-----------|
| Rated voltage | Rated voltage | | kV | 252 |
| Rated current | Rated current | | Α | 3150 |
| Rated short tim | Rated short time withstand current,3s | | kA | 50 |
| Rated peak wit | hstand current | | kA | 125 |
| Rated power frequencywithstand voltage | | To earth | 147 | 460 |
| | | Open contacts | kV | 460+145 |
| Rated lightning | impulse withstand | To earth | 1.5.7 | 1050 |
| voltage | _ | Open contacts | kV | 1050+200 |
| J | | Longitudinal | - N | 1500 |
| Mechanical stre | ength - | Horizontal | | 1000 |
| or terminals — | | Vertical | - | 1250 |
| Min failing load | Min failing load | | Ν | 8000 |
| Earthing switch | Electromagnetic | Rated induction current | Α | 80 |
| induction current | coupling | Rated induction voltage | kV | 1.4 |
| canability | Electrostaticcoupling | Rated induction current | Α | 1.25 |
| | | Rated induction voltage | kV | 5 |
| Open/close bus switching circuit | | Α | 1600 | |
| Mechanical life | | Time | 3000 | |
| Single pole weight | | kg | 1050 | |
| | | | | |

5 Outline and Installation Dimension (Unit: mm)





6 Ordering Information

- 6.1 Model, specification and quantity of disconnector.
- 6.2 Rated current, rated short time and peak withstand current.
- 6.3 Pollution level and altitude.
- 6.4 Please indicate whether fitted with earthing blade, in which side and whether fitted with electromagnetic lock.
- 6.5 The electric motor voltage, control voltage and auxiliary poles of electric operating mechanism. X Note: Customized products are available.



Earthing Switch

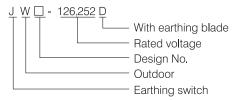


JW -126, JW -252 Outdoor AC Earthing Switch (126kV/252kV)

1 General

- 1.1 Application: three-phase AC 50Hz outdoor HV electrical apparatus, for earthing of HV bus in rated voltage $110\sim220$ kV power system.
- 1.2 Standard: IEC 62271-102.

2 Type Designation



3 Working Condition

3.1 Altitude: ≤2000m

3.2 Ambient air temperature: -40 $^{\circ}\text{C} \sim$ +40 $^{\circ}\text{C}$

3.3 Max wind velocity: 34m/s

3.4 Seismic: Horizontial acceleration: 0.250g Vertical acceleration: 0.125g

3.5 Thickness of ice covering: ≤10mm

3.6 Pollution level of insulator: III(25mm/kV), IV(31mm/kV)

3.7 Installation area without fire, explosion, chemical corrosion and frequent shocking

3.8 Sunshine radiation: \leq 1000W/m² (sunny noon).

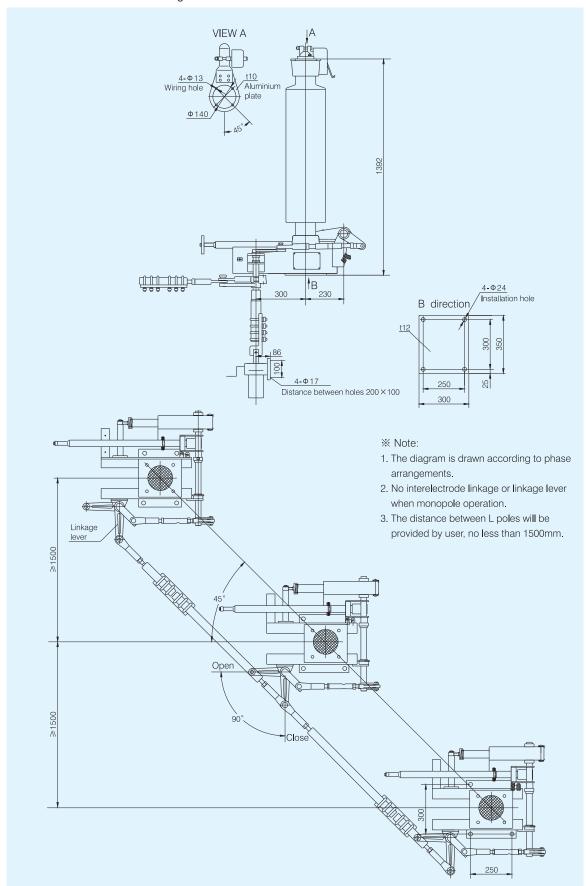
| Item | | | Unit | Parameter | |
|----------------------------------|---|-------------------------|-------|-----------|-------|
| Rated voltage | | | kV | 126 | 252 |
| Rated peak withstand current | | | Α | 100 | 125 |
| Rated short time | Rated short time withstand current, 3s | | kA | 40 | 50 |
| Rated power frequency | | To earth | kV | 230 | 460 |
| withstand voltag | withstand voltage | | N.V | 265 | 530 |
| Rated lightning i | Rated lightning impulse withstand voltage | | kV - | 550 | 1050 |
| withstand voltag | | | | 630 | 1200 |
| Mechanical strength of terminals | | Longitudinal | N - | 1000 | 2000 |
| | | Horizontal | | 750 | 1500 |
| | | Vertical | | 1000 | 1250 |
| Earthing switch | Electromagnetic coupling | Rated induction current | Α | 50 | 80 |
| induction current | | Rated induction voltage | kV | 0.5 | 1.4 |
| open/close capability | Electrostatic | Rated induction current | Α | 0.4 | 1.25 |
| Саравшу | coupling | Rated induction voltage | kV | 3 | 5 |
| Mechanical life | | | Times | 3000 | 3000 |
| Min failing load | | | Ν | 6000 | 8000 |
| Single pole weight | | | kg | 110 | 230 |
| Radio interference level | | | μV | ≤2000 | ≤2000 |



Earthing Switch

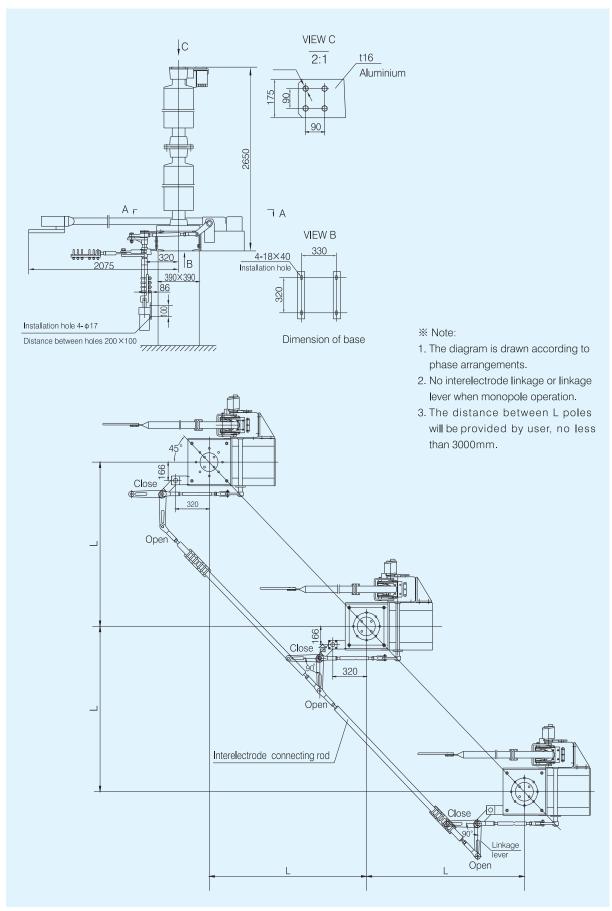
5 Outline and Dimension (Unit: mm)

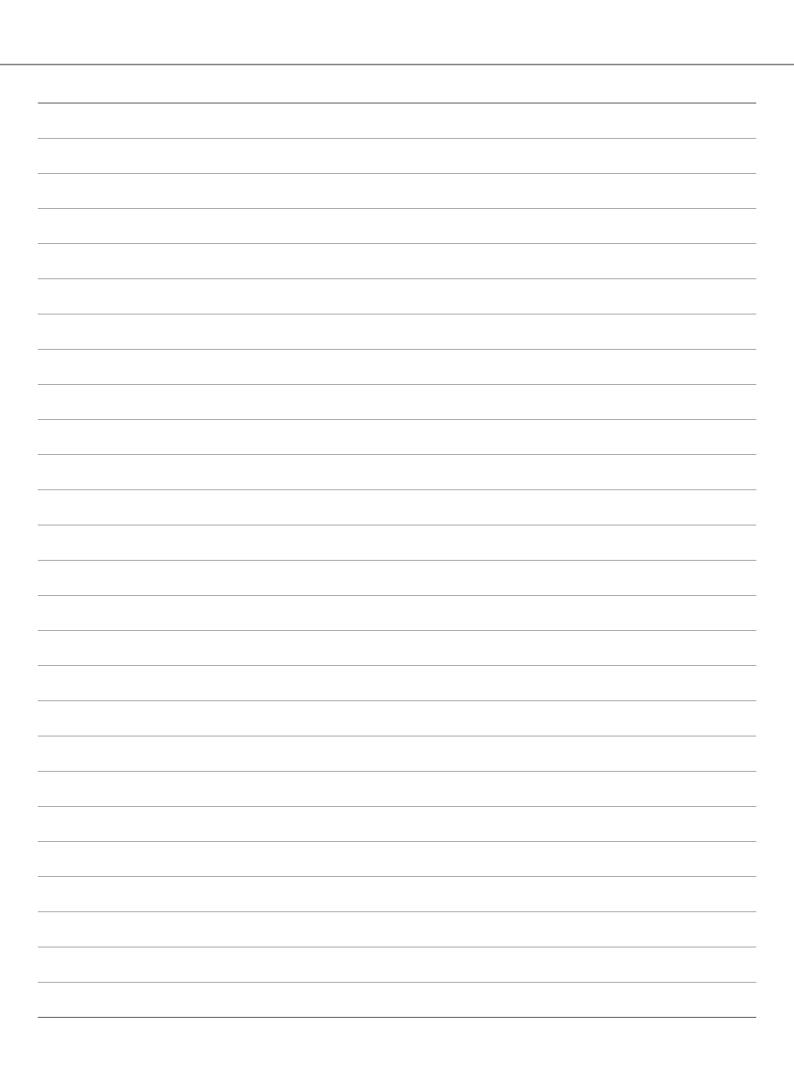
5.1 JW□ Earthing Switch

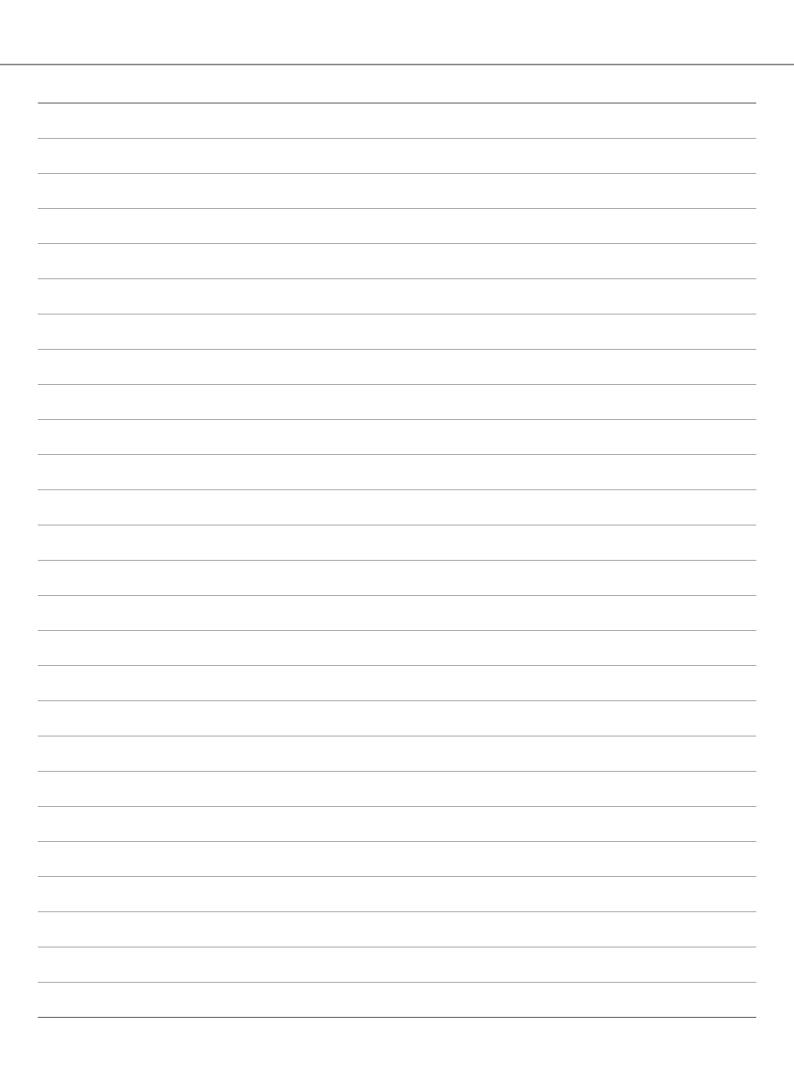


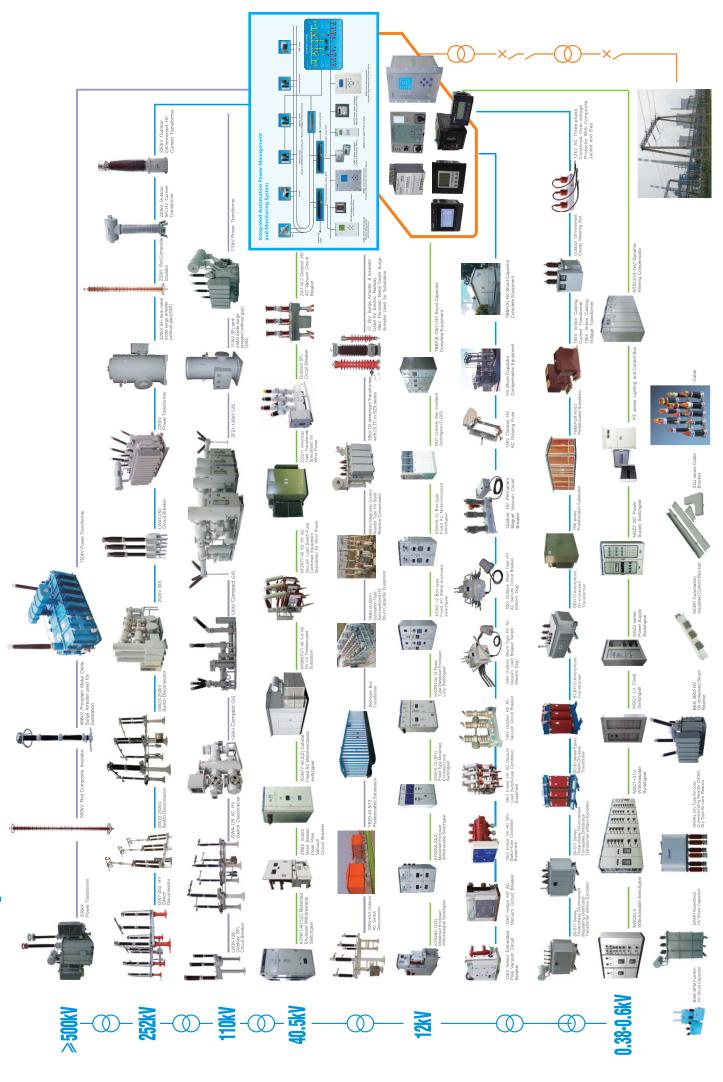
Earthing Switch

5.2 JW □-252 Earthing Switch











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