

GEIS

SecoVac

12kV-40.5kV Embedded Pole Vacuum Circuit Breaker

GEIS Electrical Protection

Safer Smarter Greener



About GEIS

GEIS was established in 2019 following the spin-off of several businesses and assets that ABB had acquired from GE on July 1, 2018, including 3 manufacturing centers, Warehousing & Trading business at FTZ, China Technology Center.

- Components: Full range of circuit breakers up to 40.5kV: Medium voltage vacuum circuit breakers, LV circuit breakers: ACB, MCCB, MCB, RCD, RCBO: Control components.
- Equipment: MV switchgear (Air insulation and Gas Insulation Technology), LV switchgear, switchboard.
- Medium voltage distribution transformer.
- Medium voltage ATS system (Paralleling Switchgear).

After the separation, all the above product lines were rebranded as AEG for selected markets and GEIS for global markets. Moreover, GEIS has expanded its technological portfolio to include medium-voltage controls such as VFDs and soft starters, as well as ATS systems and EV chargers.



Quality is Built-in

Where Technology Meets Manufacturing Excellence for Customers

- Since 2000, we have been specializing in localizing world-class products and manufacturing technologies, developing strong expertise and a highly capable team.
- Vertical integrated Shanghai Manufacturing Center brought key manufacturing processes into a 75,000 m² facility, enabling high-quality, high-efficiency production and fostering innovation. A dedicated R&D team committed to developing products that meet global standards and serve diverse applications.
- Global expansion: GEIS's first Thailand facility makes it easier to serve customers worldwide.



GEIS deliver complete range of products for the evolving electrification needs:



SecoVac VCB



M-PACT Plus ACB



Elfa Series MCB/RCBO



SolidDrive MV VFD



SecoGear MV Switchgear



RMU Gas Insulated
Switchgear



WaveCast Transformer



MLS LV Switchgear

SecoVac Vacuum circuit breaker

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SecoVac

12kV-40.5kV Embedded Pole Vacuum Circuit Breaker

Introduction

SecoVac series 12kV-40.5kV vacuum circuit breaker designed by GEIS is a three-phase AC indoor breaker which can be applied in controlling and protecting electrical equipment in industrial and mineral enterprises, power plants and substations.

The product conforms to the IEC62271-100 standard. It is especially suitable for conditions which require frequent operation. The breaker can be installed in the switchgear both in fixed type and withdrawable type. It is the optimum choice for the control and protection of MV power distribution systems.



Product Description

Reliability, safety and performance in a compact package

SecoVac 12kV-40.5kV Vacuum Circuit Breakers Provide:



Leading vacuum and insulation technology

GEIS has developed environmentally friendly vacuum circuit breakers which are capable of reliably switching high stress fault currents. Increased dielectric strength of the SecoVac circuit breaker is achieved through encapsulation of the vacuum interrupter in epoxy resin material. SecoVac circuit breaker family utilizes this solid insulation technology that has been catering to a wide scope of applications for years.



Environmentally-friendly design

GEIS's vacuum and solid insulation technology is free of SF₆ gas that contributes significantly to the greenhouse effect and associated climate change.

Built to highest quality standards

SecoVac circuit breakers are designed and fully third-party KEMA type tested to the latest IEC 62271-100 and IEC 62271-1 standards. All SecoVac circuit breakers meet or exceed the electrical and mechanical endurance requirements of E2 and M2 in accordance with IEC 62271-100.



Storage conditions

In order to retain all of the functional units qualities when stored for prolonged periods, we recommend that the equipment is stored in its original packaging in dry conditions sheltered from the sun and rain at a temperature of between -15°C and 40°C. For storage: -30°C.

Reliability and safety

SecoVac circuit breakers have a number of inbuilt safety capabilities which can be incorporated into the switchgear design. Due to its innovative operating mechanism the SecoVac breaker has industry leading reliability that is rated at 10,000 operations.

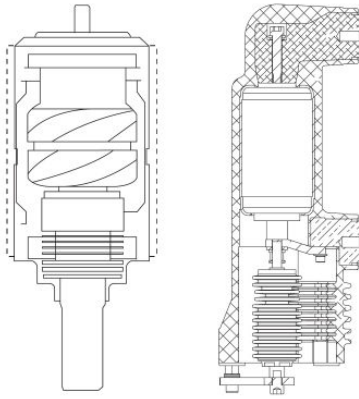


Adaptability and versatility

SecoVac circuit breakers can be used in a wide scope of applications such as the protection of transformers, capacitor banks, motors. The breaker can be used in a wide range of environments to suit all regions of the globe.

Product Description

Vacuum Interrupter (VI)



The vacuum interrupter is where current making and breaking occurs. Copper chromium contacts provide superior performance characteristics. The vacuum in the arc chamber protects the copper chromium contacts from adverse effects such as contamination and corrosion.

Maintenance free

Vacuum interrupters are hermetically sealed and offer extensive vacuum integrity. Dedicated to proven reliability, safety and performance, GEIS vacuum interrupting technology offers highest quality products which are sealed for life.

Structural durability

SecoVac circuit breaker is an embedded pole type, which is extremely durable.

It can protect the vacuum interrupter from mechanical and climatic influence such as humidity, moisture and dust. The interrupter is immune to shock and vibration.

High performance

SecoVac circuit breakers provide you with:

- High dielectric strength
- High creepage distance
- High mechanical strength
- Low moisture absorption
- Optimum thermal conductivity

Compact size

Combined with GE's embedded pole technology, SecoVac circuit breaker has a very compact design. It offers high current and interruption ratings in a small, cost effective package.

Product Description

Application Condition

High performance

- The ambient air temperature does not exceed 40°C and its average value, measured over a period of 24 hours, does not exceed 35°C. The minimum ambient air temperature is -15°C (storage and transportation is allowed at -30°C)
- For applications above 1,000m please refer to chapter 4.2.2 of IEC 60071-2 (see following table for reference)
- The conditions of humidity are as follows:
 - The average value of the relative humidity, measured over a period of 24 hours, does not exceed 95%
 - The average value of water vapor pressure, measured over a period of 24 hours, does not exceed 2.2kPa
 - The average value of the relative humidity, measured over a period of one month, does not exceed 90%
 - The average value of water vapor pressure, measured over a period of one month, does not exceed 1.8kPa
- Seismic intensity to UBC zone 4 or GB intensity 9
- No adverse operating environment such as dust, humidity, vermin, polluted ambient and high altitude operating site

Special application condition

If the actual application conditions differ from the normal application conditions, circuit breaker and associated devices and auxiliary equipment shall be designed and manufactured to comply with any special application conditions. For special application conditions please consult with GE in advance, normally the following special service conditions may be encountered:

- The installation location is more than 1,000m above sea level
- The ambient temperature is between -15°C and 40°C, for other conditions please contact GE sales for further detail
- The circuit breaker current and dielectric ratings must be lowered for high altitude and elevated temperature applications
- Marine and SubSea conditions. Refer to specific chapter in the catalogue.

Altitude Derating MV

m	K (m=1)	V	K (m=0.9)	In
1,000	1	1	1	1
1,500	1.062	0.94	1.056	0.95
2,000	1.132	0.88	1.12	0.89
2,500	1.2	0.83	1.18	0.85
3,000	1.28	0.78	1.246	0.80
3,500	1.36	0.74	1.32	0.76
4,000	1.44	0.69	1.39	0.72

IEC 60071-2, 4.2.2 the altitude correction factor can be calculated using the following equation, which modified to reflect that no correction is required up to 1000m.

$$K_a = e^{m(H-1000)/8150}$$

Where

H Is the altitude, in metres

m Is taken as a fixed value in each case for simplification as follows

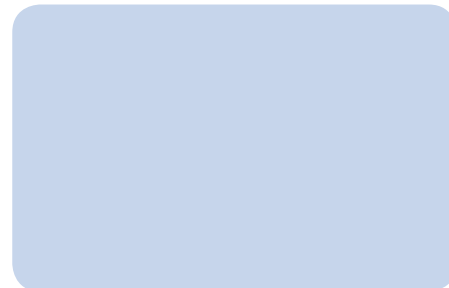
m = 1 for power frequency, lightning impulse and phase-to-phase switching impulse voltages

m = 0.9 for longitudinal switching impulse voltages

Product Description

Utilities and power plants

Network substation of
Utility Grid
Balanced of Plant in Power
Generation
Generator Switchgear



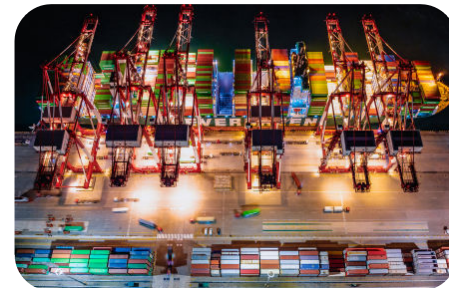
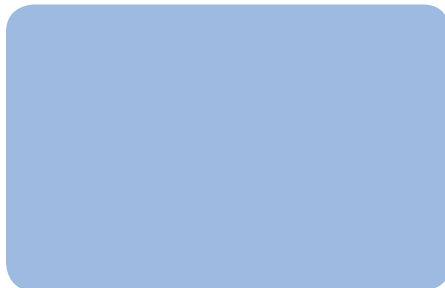
Industry

Oil and Gas
Mining
Pulp and Paper
Cement
Textiles
Automotive Metallurgy



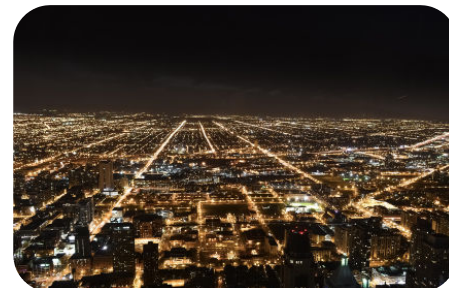
Transport

Airports
Ports Railways
Underground transport



Services

Supermarkets
Shopping malls
Hospitals
CBD
Data Center



Applications

Product Description

Advanced Technology

High adaptability

- Compare to traditional design, enhanced reliability
- Less resistance
- Less mechanical parts
- Various applications for different climates



Standard and Quality Control



Quality

SecoVac circuit breakers provide you with:

- IEC standard, 3rd party KEMA certification
- Advanced manufacturing process ensured quality
- Advanced testing equipment
- Integrated routine test

Type test

- Dielectric test
- Temperature rise test
- Short circuit withstand current test
- Mechanical operation test
- ES-Mechanical operation test
- Capacitive current switching test

Mechanical structure

- Single modular design
- Integrate closing/opening module
- Compact size
- Enhanced reliability
- Low maintenance



Standard

3.3kV-27kV Embedded Pole Vacuum Breaker complies with the standards and specifications and has been type tested in accordance with the following IEC publications:

- IEC 62271-100 high-voltage alternating current circuit breaks
- IEC 62271-200 AC metal enclosed switchgear and control gear for rated voltages above 1kV and up to 52kV
- Alternating current disconnectors and earth switches
- IEC 62271-1 the common specification for high voltages switchgear and control gear standards
- IEC 60529 degrees of protection as provided by enclosures (IP code)

The state-of-the-art processing and advanced quality control

The high quality of the embedded pole is achieved by using the latest APG (Auto Pressure Gelation) technology and advanced vacuum mixing and degassing technology. The Vogel clamping machine is an essential piece of equipment to ensure the mechanical and insulating strength of the embedded pole of 12kV-40.5kV series MV embedded pole vacuum circuit breaker. As well as the processing facilities, the testing facilities are also very important to the quality control of the breaker. In the manufacturing process of SecoVac, from incoming material quality control to the final inspection and testing, every step is strictly calibrated and tested.

Every embedded pole goes through the following inspection and testing before it is allowed into the breaker assembly line:

- X-ray inspection
- Power frequency withstand voltage test
- Partial discharge measurement
- Thermal cycling test

Before delivery, the following tests and inspections will be done for 12kV-40.5kV embedded pole vacuum circuit breakers in factory by means of advanced testing equipment:

- Dynamic characteristics measurement (Closing/opening speed, contact bounce, wipe etc.)
- Power frequency withstand voltage testing
- Inspection of interlocking system between breaker and withdrawable unit
- Secondary wiring inspection
- Circuit resistance measurement

Quality Control

Product Description

Environmental Protection

Selecting low environmental impact technologies has become increasingly important when choosing equipment for an application. With commitment to environment protection, the solid insulation of epoxy resin is used for 3.3kV-27kV series MV embedded pole vacuum circuit breaker instead of SF₆ gas.

Manufactured, assembled and tested all in the same sophisticated facility, SecoVac is the product of state-of-the-art manufacturing processes assured by ISO 9001:2000 and ISO 14001 certification. Using precision tools, computer-aided design and advanced production techniques.



Product Structure

SecoVac 12kV-40.5kV Breaker Features



Front panel

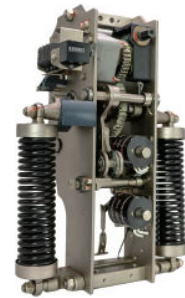
Front panel fits into a collar frame in the equipment when the breaker is in the service position. It provides a metal barrier between the breaker compartment and the secondary device compartment.

Clearly marked and easy-to-read operating controls and indicators include trip button, close button, open/close indicator, charge/discharge indicator, operations counter and provision for manually charging the breaker.



Primary disconnect

The primary disconnect cycloid (tulip) contact set is rugged and easy-to-inspect. Designed for optimum contact area, it is manufactured from silver-plated copper and tested for continuous and short-circuit current ratings. The tulip cluster design expands easily, providing better finger contact area than flat type contact designs, and delivering proper contact integrity throughout the life of the equipment.



Breaker mechanism

All the mechanical parts of the mechanism are integrated into individual opening and closing modules. The modules are universal to SecoVac embedded pole vacuum circuit breaker series, regardless of rating. The module design assures no mechanical adjustment is required after replacement. This offers the user shorter lead-times and reduces operational and maintenance costs.

Selection Guide

Interlock system

For personnel safety, SecoVac 3.3kV-27kV is designed with a number of mechanical and electrical interlocks. For example, breaker contacts must be open before the breaker can be moved from test to service position. A positive mechanical stop is provided when the breaker reaches the service or test/disconnect positions. Mechanical rejection interlocks are provided to permit only the insertion of properly rated breakers into specific compartments.

These and other necessary interlocks provide a comprehensive safety system. Furthermore, springs automatically discharge when the breaker is withdrawn from the service position and breakers cannot be inserted in the closed position.

Undercart

Secogear and SecoBloc offers manual operation undercart system which can be operated for racking in and out. The undercart has an interlock with earthing switch, which prevents misoperation. And it also allows earthing function of circuit breaker by means of metallic structure.



Typical layout for vacuum circuit breaker

- 1 Tripping button
- 2 Status indicator for charging
- 3 Closing button
- 4 Counter
- 5 Indicator for open or close
- 6 Charging handle



Figure 1. Front facial of the circuit breaker

- 1 Upper contact arm
- 2 Embedded poles
- 3 Lower contact arm
- 4 Tulip cluster

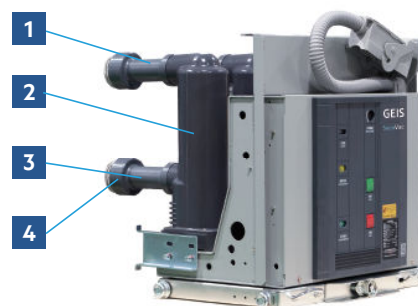


Figure 2. Primary circuit

Low Energy Trip Coil

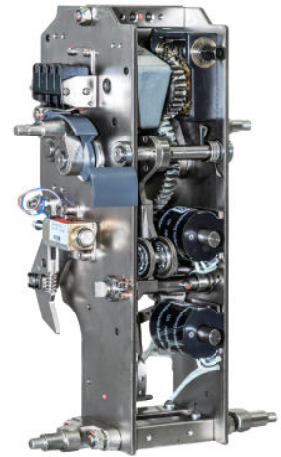
Optimized Tripping Solution for Enhanced System Reliability

Introduction

The SecoVac™ Vacuum Circuit Breaker can be equipped with an optional Low Energy Trip Coil, designed to provide reliable opening operation with optimized control energy requirements.

Based on advanced electromagnetic actuator technology, the Low Energy Trip Coil reduces the demand on the DC auxiliary supply during tripping operation while maintaining the fast, consistent, and dependable performance required for medium voltage protection applications.

The optimized design supports modern power systems where reliable protection, reduced auxiliary power consumption, and improved DC system availability are essential.



Low Energy Operation Concept

The Low Energy Trip Coil incorporates an optimized electromagnetic design to achieve reliable circuit breaker tripping with reduced operating energy.

Compared with conventional trip coil solutions, the low energy design helps to:

- Reduce the load on station DC control systems;
- Improve utilization of battery-backed auxiliary supplies;
- Support reliable operation in installations with limited control power capacity;
- Enhance overall system availability.

Advantages

Reduced Auxiliary Power Requirement

Optimized electromagnetic design minimizes the energy demand from the DC control supply, contributing to improved auxiliary system efficiency.

Enhanced DC System Availability

Lower operating demand helps reduce stress on station batteries and DC control equipment, especially during protection operations.

High Operational Reliability

Designed to maintain consistent tripping performance under demanding medium voltage operating conditions.

Flexible Application

Suitable for utility, renewable energy, industrial, and infrastructure projects requiring optimized protection solutions.

Typical Applications

The SecoVac™ Low Energy Trip Coil is ideally suited for:

- Utility substations;
- Renewable energy plants;
- Solar and wind power projects;
- Digital substations;
- Industrial power distribution systems;
- Applications with battery-supported DC control systems.

Selection Guide

Circuit Breaker Characteristics

Rated Voltage	kV	12	17.5	24	27	40.5
Rated power frequency withstand (1min)	kV	28	38	50	60	95
Rated lightning frequency impulse withstand voltage (1.2/50μs)	kVp	75	95	125	125	185
Rated Frequency	Hz	50		50		50
Rated Current	A	630/1250/1600/2000/2500/3150/4000/5000*		630, 1250, 1600, 2000, 2500, 3150*		630, 1250, 1600, 2000, 2500, 3150*
Rated short-circuit breaking current	kA	25/31.5/40/50		25/31.5		25/31.5/40
Percentage of DC component		52%		52%		52%
Rated short-circuit closing current	kAp	63/80/100/125		63/80		63/80/100
Rated short time withstand current	kA	25/31.5/40/50		25/31.5		25/31.5/40
Rated peak value withstand current	kAp	63/80/100/125		63/80		63/80/100
Rated duration time for short-circuit	s	3		3		3
Opening Time	ms	20~50		20-50		20-50
Closing Time	ms	30~70		30-70		30-70
Mechanical life operations	Quantity	M2		M2		M2
Electrical Endurance class		E2		E2		E2

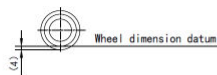
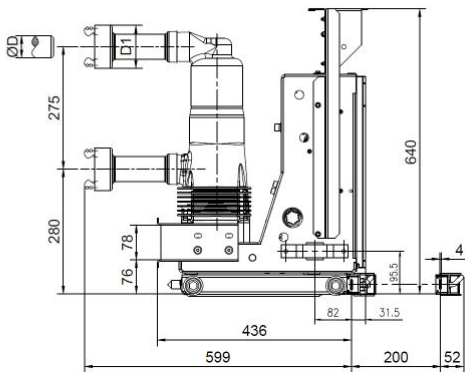
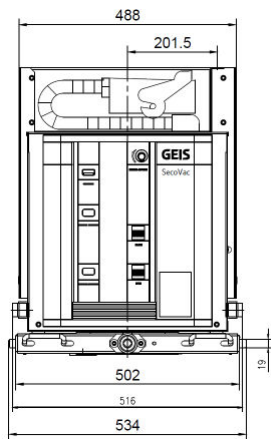
* Force cooling

For 60Hz products, please contact GEIS.

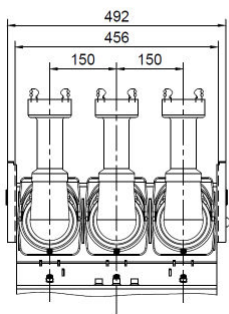
Selection Guide

12kV/630~1250A—25kA, 31.5kA (P=150mm)

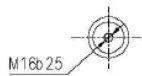
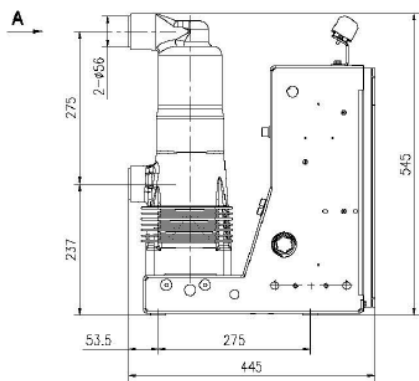
Withdrawable type



Specification (spring mechanism)	D	D1
630A/25-31.5kA	Ø35	Ø84
1250A/25-31.5kA	Ø49	Ø97



Fixed type



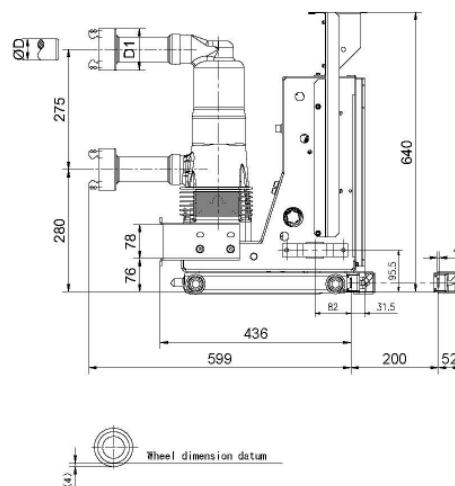
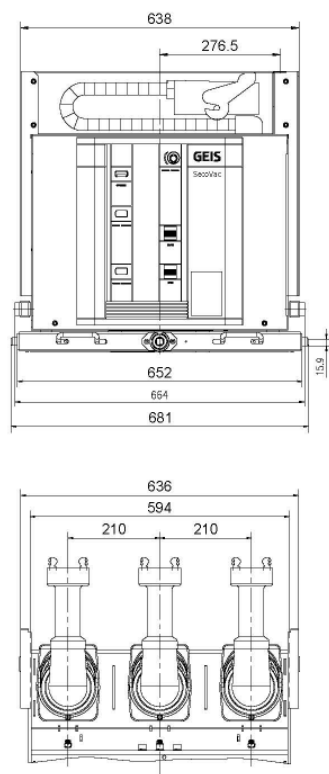
A

Selection Guide

12kV/630~1250A—25kA, 31.5kA (P=210mm)

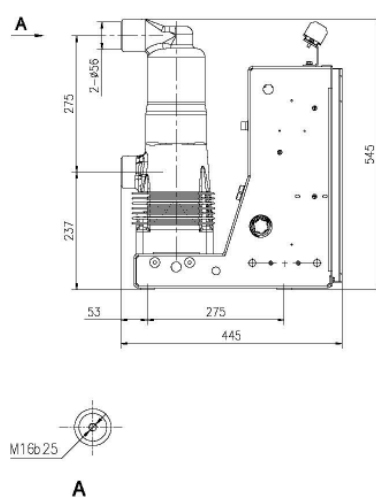
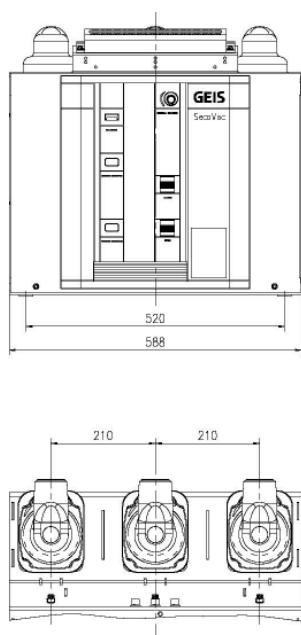
12kV/1250~1600A—40kA (P=210mm)

Withdrawable type



Specification (spring mechanism)	D	D1
630A/25-31.5kA	Ø35	Ø84
1250A/25-31.5kA	Ø49	Ø97
1250A/40kA	Ø49	Ø97
1600A/40kA	Ø55	Ø104

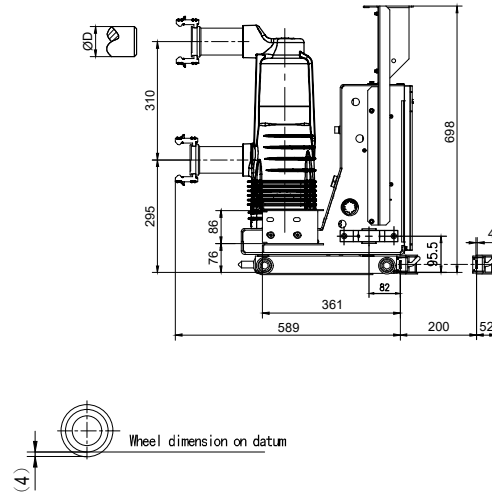
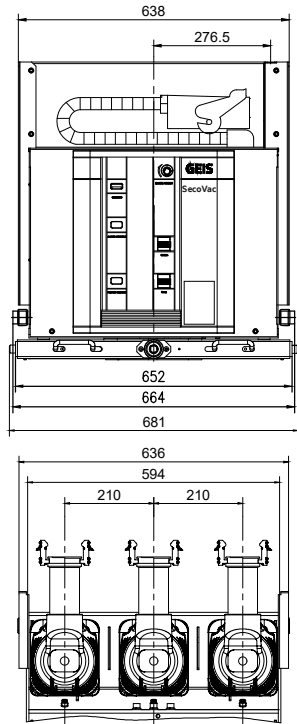
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Selection Guide

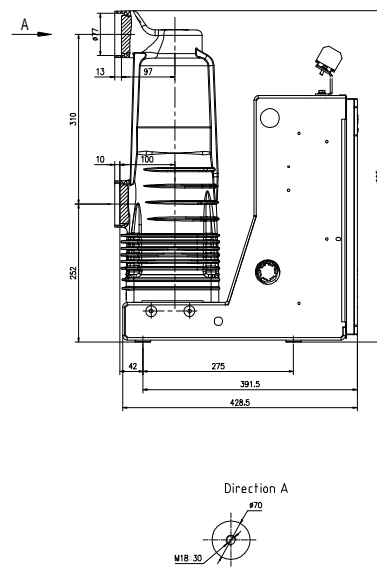
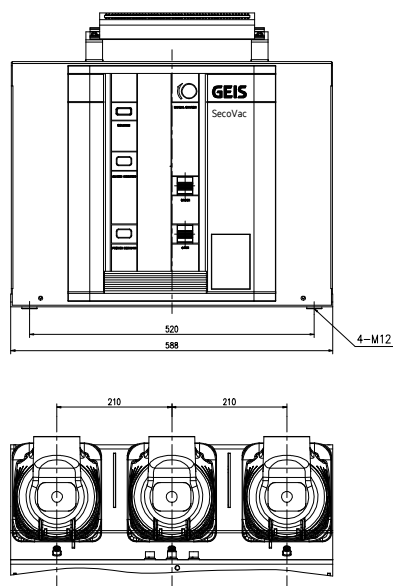
12kV/1250~1600A—50kA (P=210mm)
12kV/2000A—40kA/50kA (P=210mm)

Withdrawable type



Specification	D
1250-1600A/50kA	Ø55
2000A/40kA	Ø79
2000A/50kA	Ø79

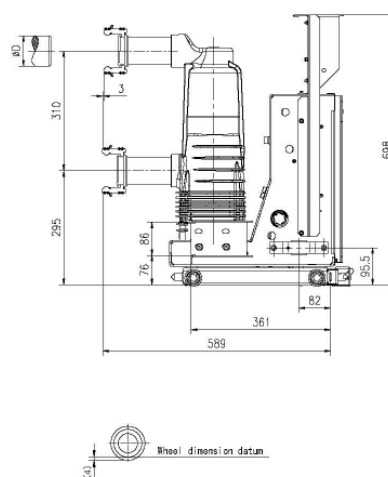
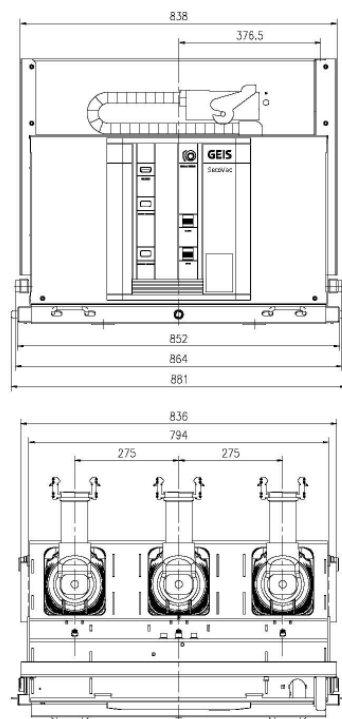
Fixed type



Selection Guide

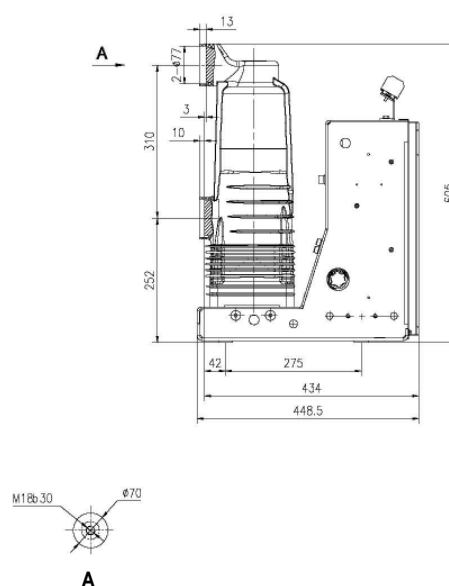
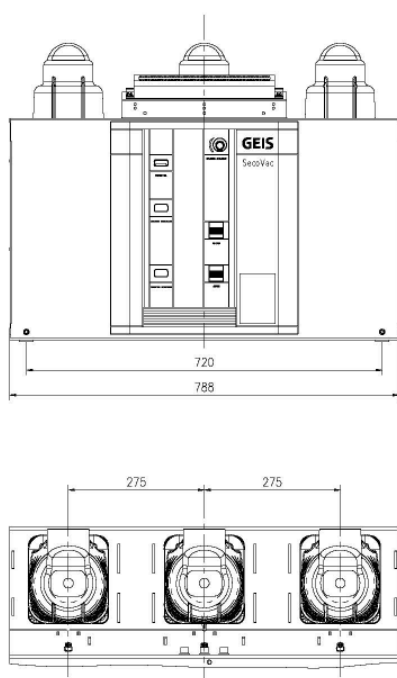
12kV/1600~2000A—40kA, 50kA (P=275mm)

Withdrawable type



Specification	D
1600A/40-50kA	Ø79
2000A/40-50kA	Ø79

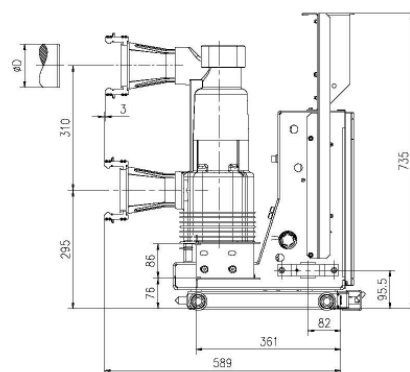
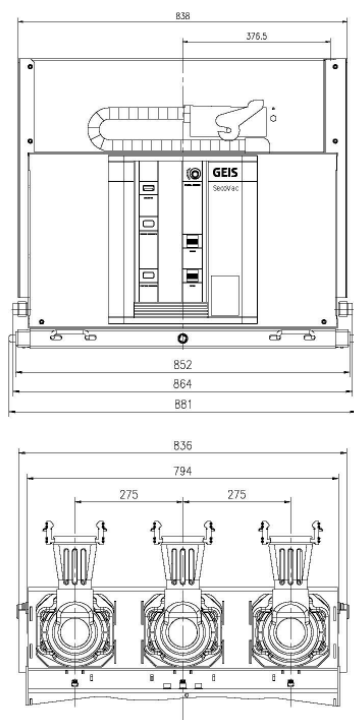
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Selection Guide

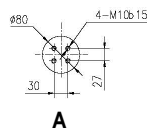
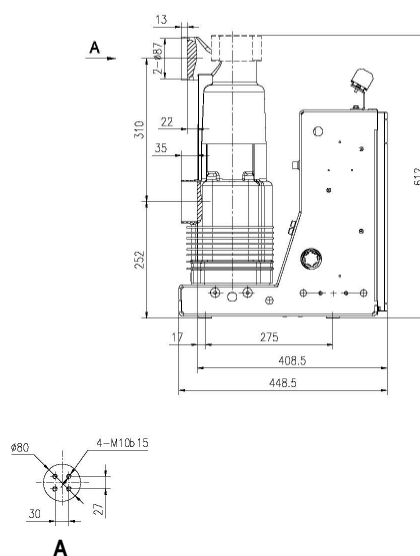
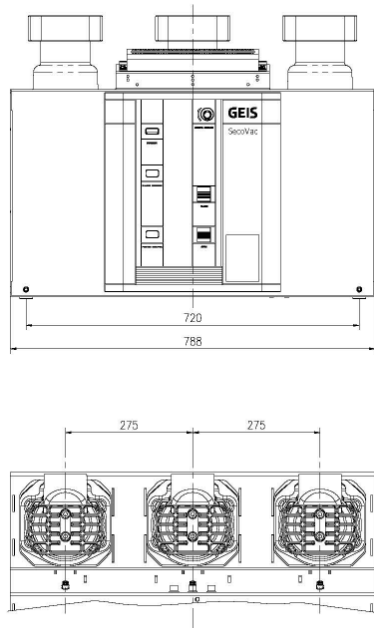
12kV/2500~4000A—40kA, 50kA (P=275mm)
12kV/5000A (P=275mm)

Withdrawable type



Specification	D
2500-4000A/40-50kA	Ø109
5000A/50kA	Ø109

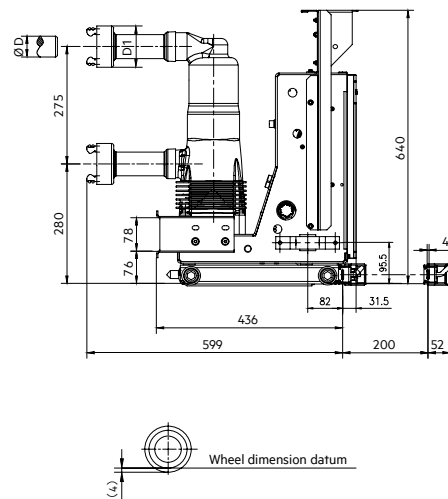
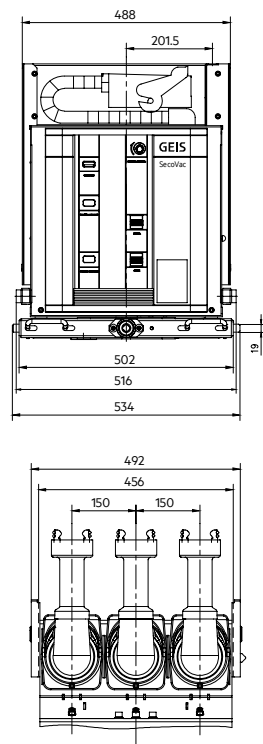
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Selection Guide

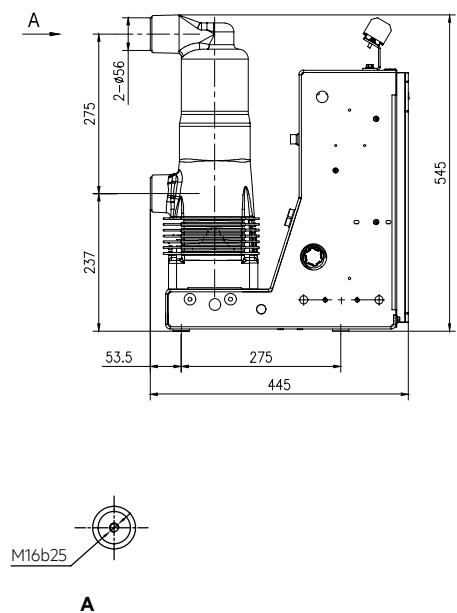
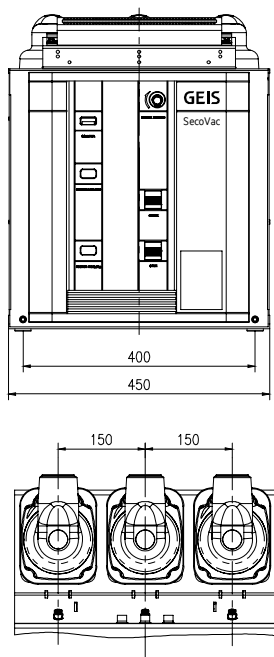
17.5kV/630~1250A—25kA, 31.5kA (P=150mm)

Withdrawable type



Specification	D	D1
630A/25-31.5kA	Ø35	Ø84
1250A/25-31.5kA	Ø49	Ø97

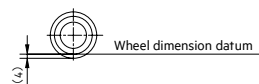
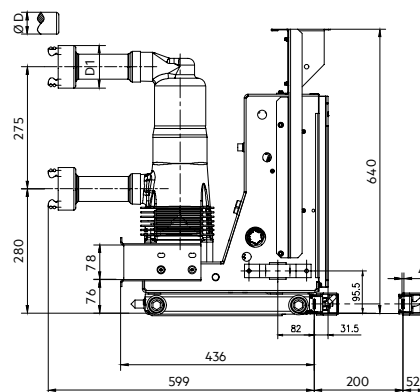
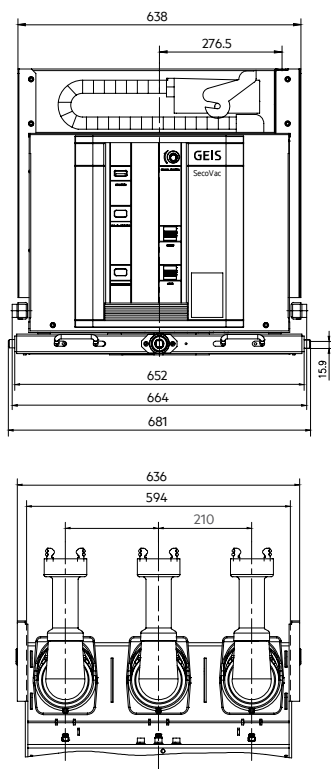
Fixed type



Selection Guide

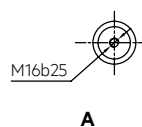
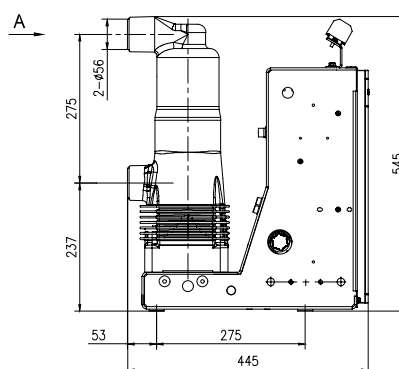
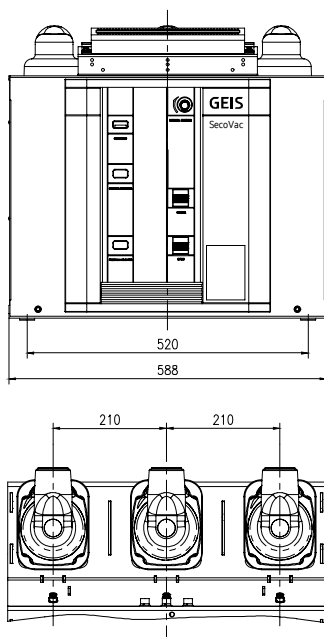
17.5kV/630~1250A—25kA, 31.5kA (P=210mm)

Withdrawable type



Specification	D	D1
630A/25-31.5kA	Ø35	Ø84
1250A/25-31.5kA	Ø49	Ø97

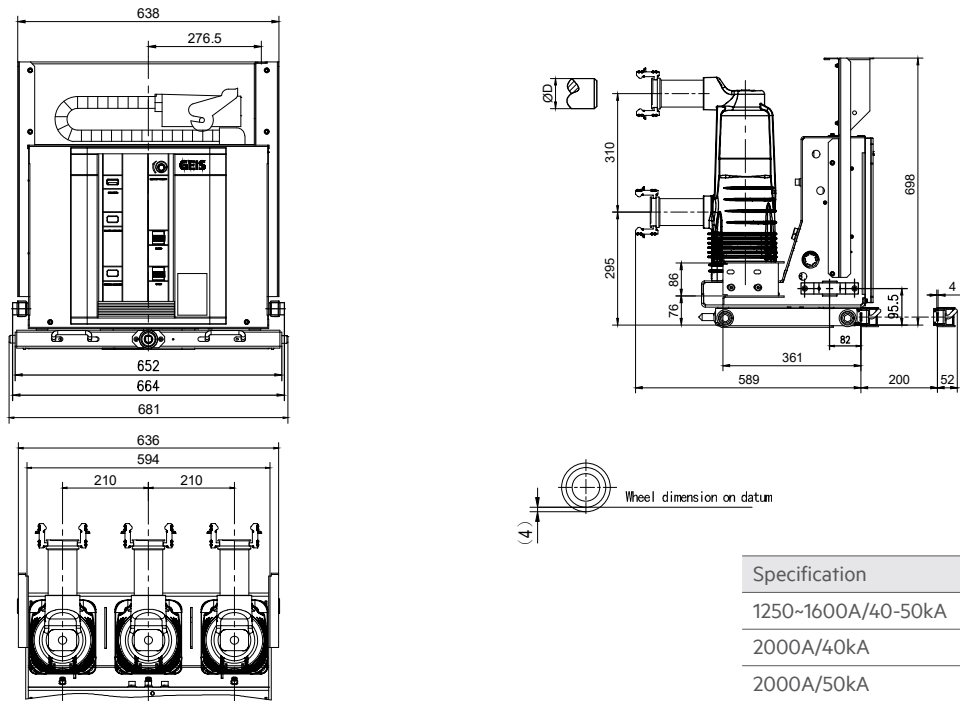
Fixed type



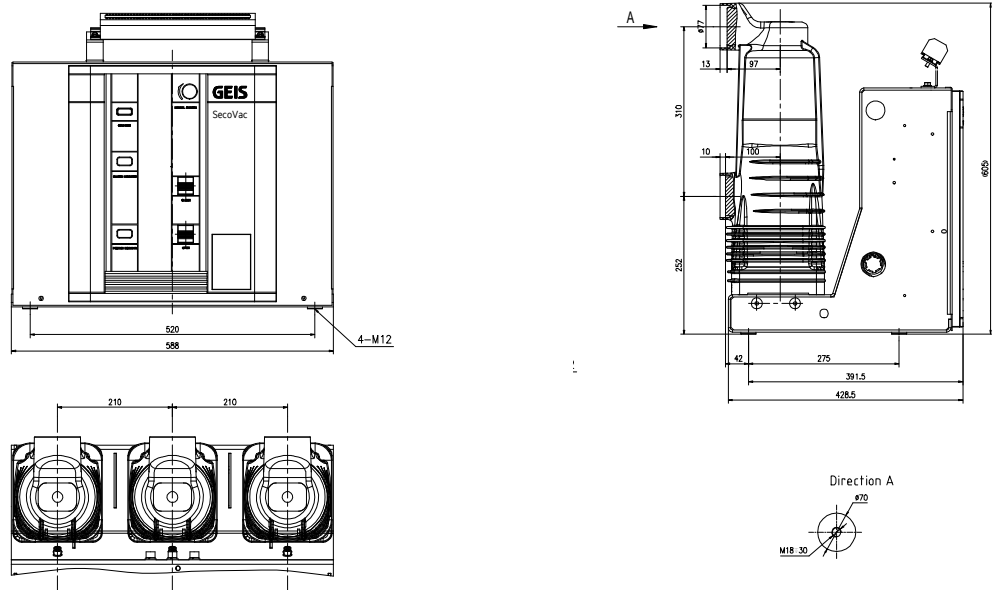
Selection Guide

17.5kV/1250~2000A—40kA/50kA (P=210mm)

Withdrawable type



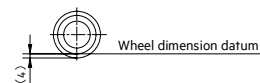
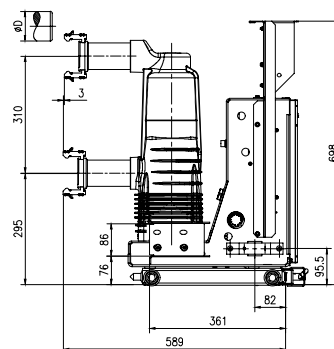
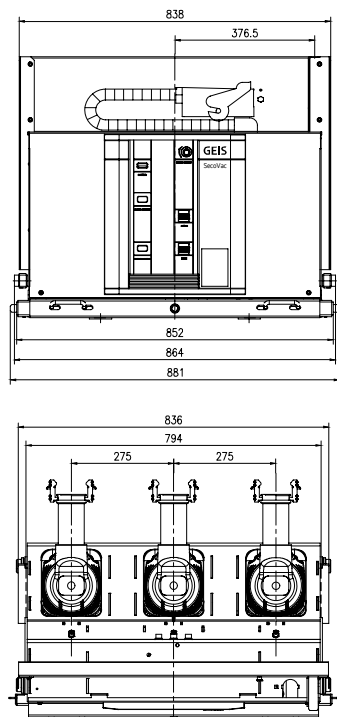
Fixed type



Selection Guide

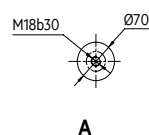
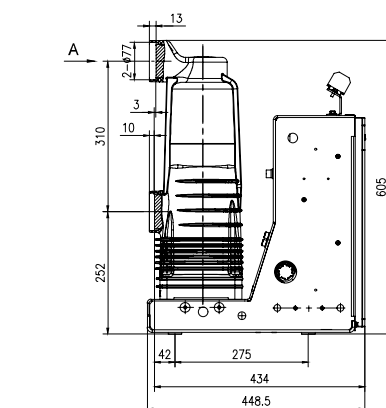
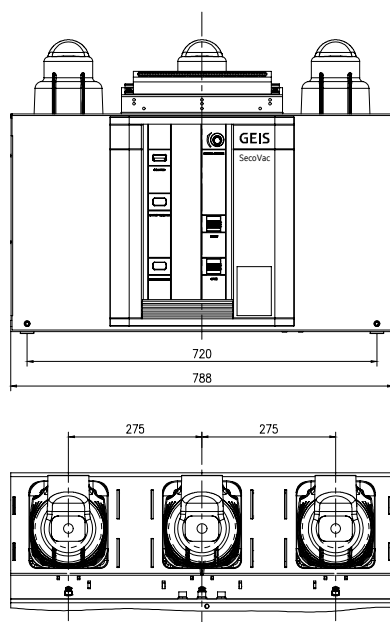
17.5kV/1600~2000A—40kA/50kA (P=275mm)

Withdrawable type



Specification	D
1600A/40-50kA	Ø79
2000A/40-50kA	Ø79

Fixed type

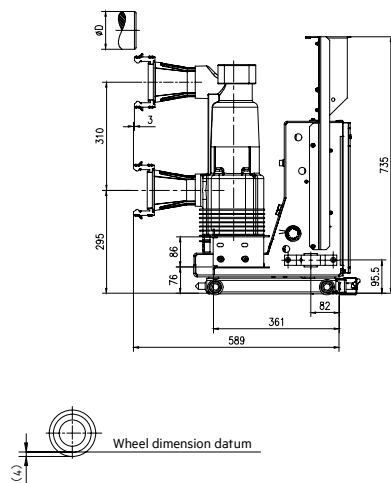
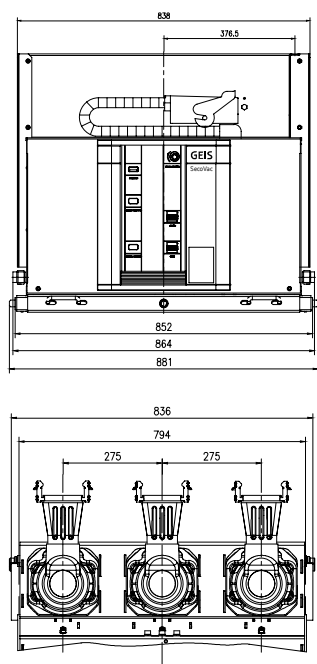


Selection Guide

17.5kV/2500~4000A—40kA, 50kA (P=275mm)

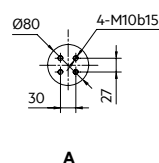
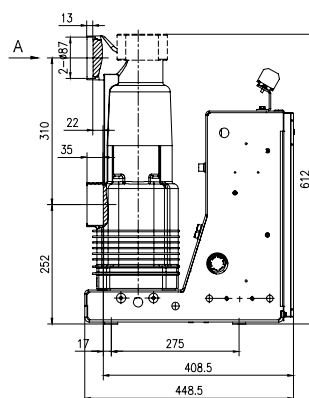
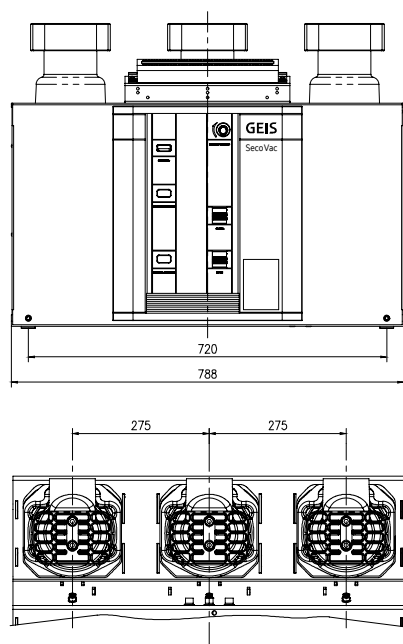
17.5kV/5000A—50kA (P=275mm)

Withdrawable type



Specification	D
2500-4000A/40-50kA	Ø109
5000A/50kA	Ø109

Fixed type

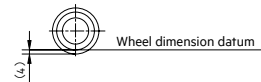
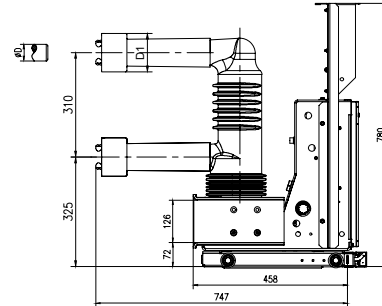
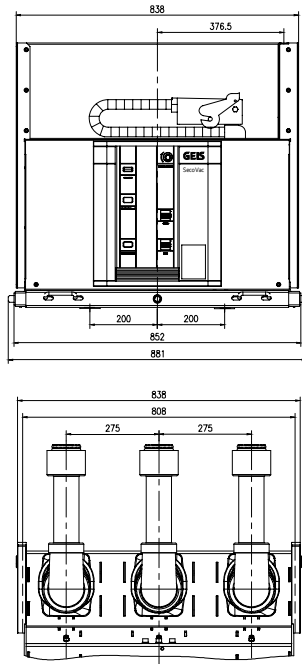


Selection Guide

24kV ~ 27kV/630~1250A—25kA, 31.5kA (P=275mm)

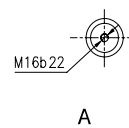
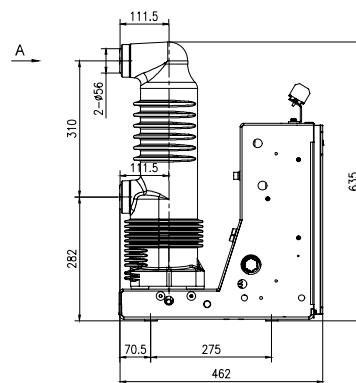
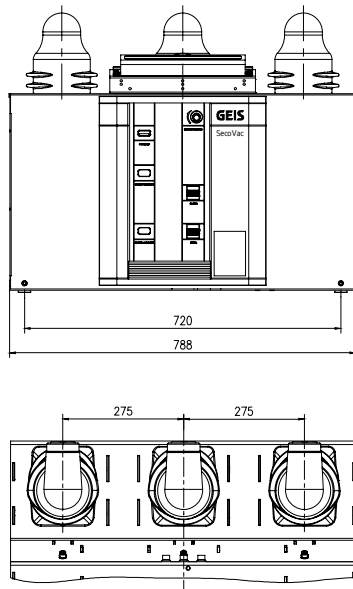
24kV ~ 27kV/1600A—31.5kA (P=275mm)

Withdrawable type



Specification	D	D1
630A/25-31.5kA	Ø35	Ø114
1250A/25-31.5kA	Ø49	Ø114
1600A/25-31.5kA	Ø49	Ø114

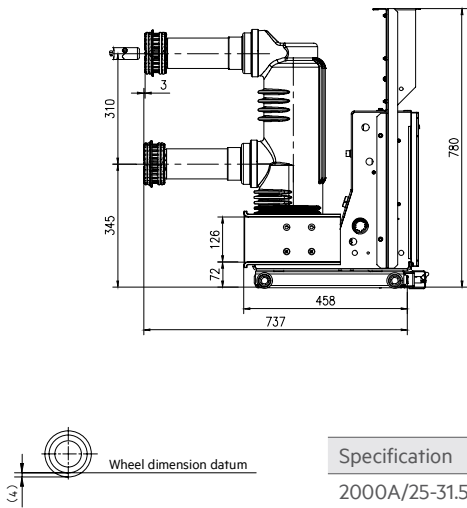
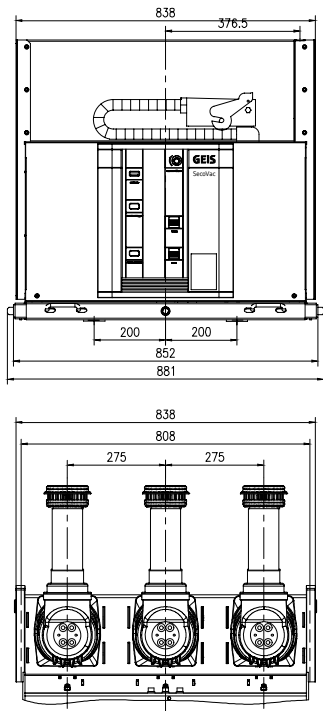
Fixed type



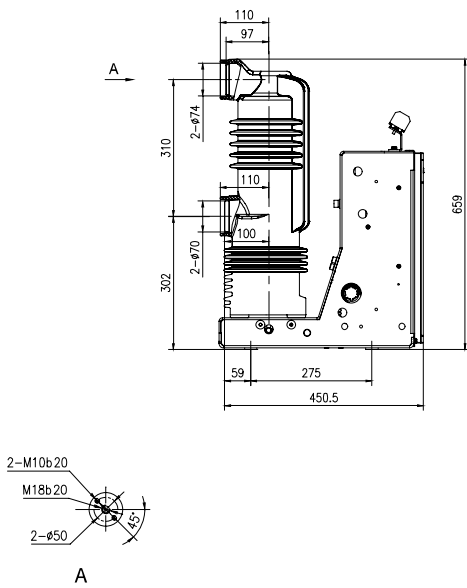
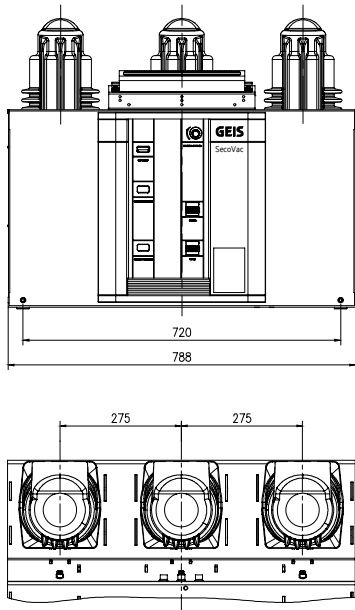
Selection Guide

24kV ~ 27kV/2000A—31.5kA (P=275mm)

Withdrawable type



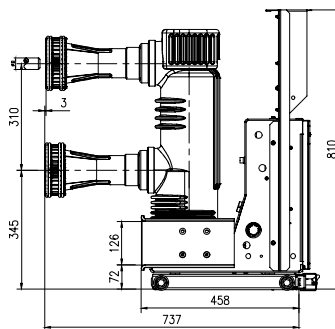
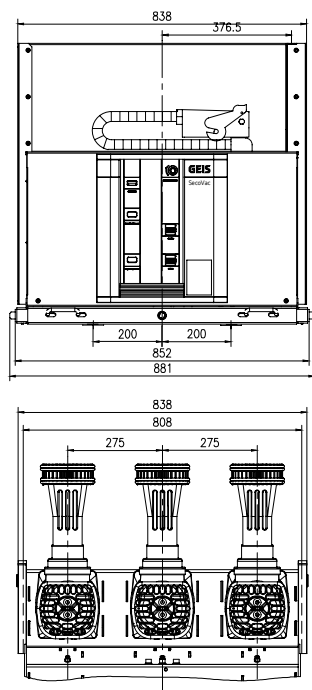
Fixed type



Selection Guide

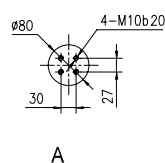
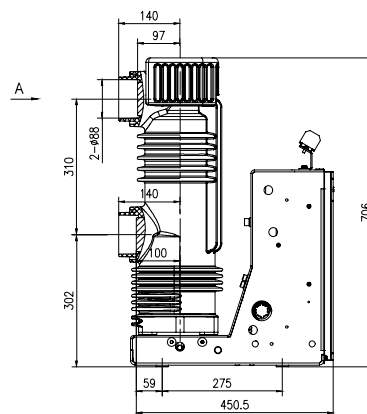
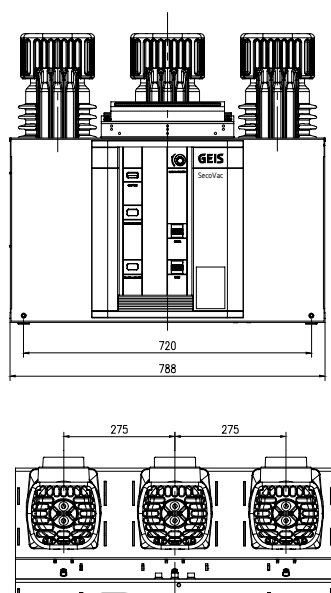
24kV ~ 27kV/2500-3150A—31.5kA (P=275mm)

Withdrawable type

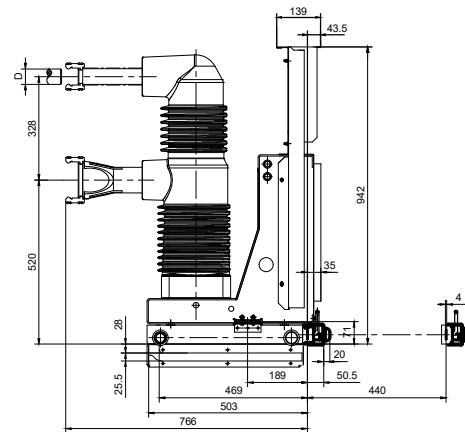
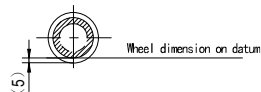


Specification	D
2500A/25-31.5kA	Ø109
3150A/25-31.5kA	Ø109

Fixed type

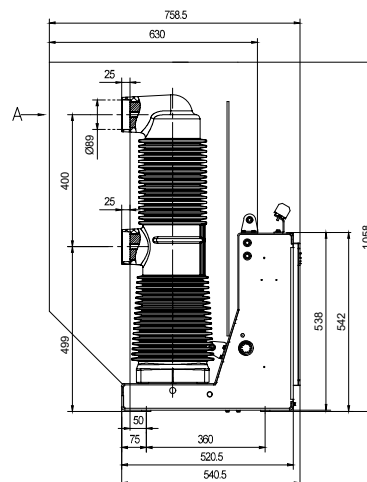
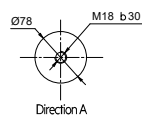


Withdrawable type



Specification	D
630~1250A/25~31.5kA	Ø49
1600A/25~31.5kA	Ø55

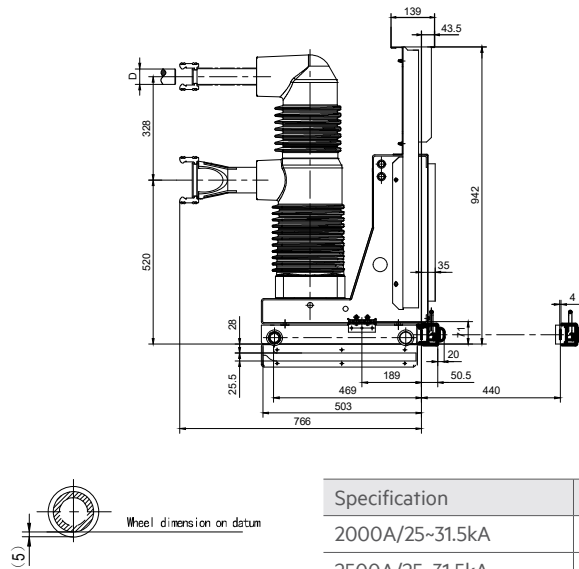
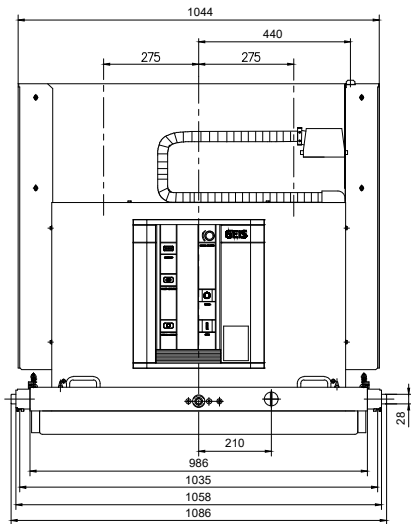
Fixed type



Selection Guide

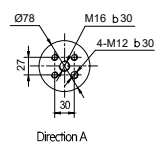
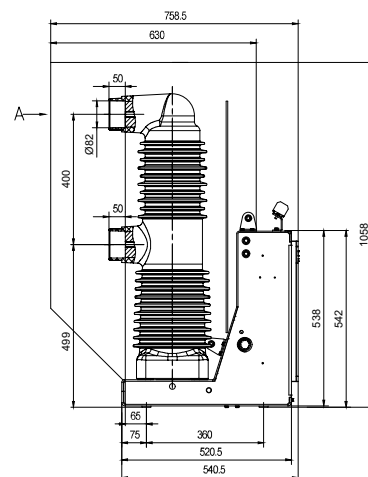
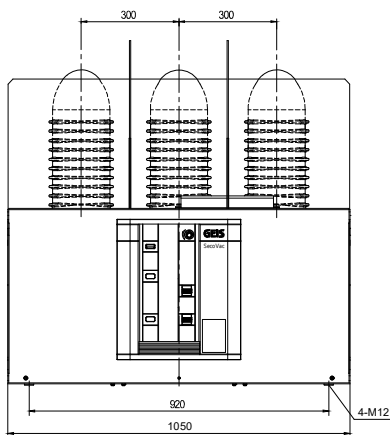
40.5kV/2000~3150A-25kA, 31.5kA(P=275mm-Withdrawable/P=300-Fixed)

Withdrawable type



Specification	D
2000A/25~31.5kA	Ø79
2500A/25~31.5kA	Ø109
3150A/31.5kA	Ø109

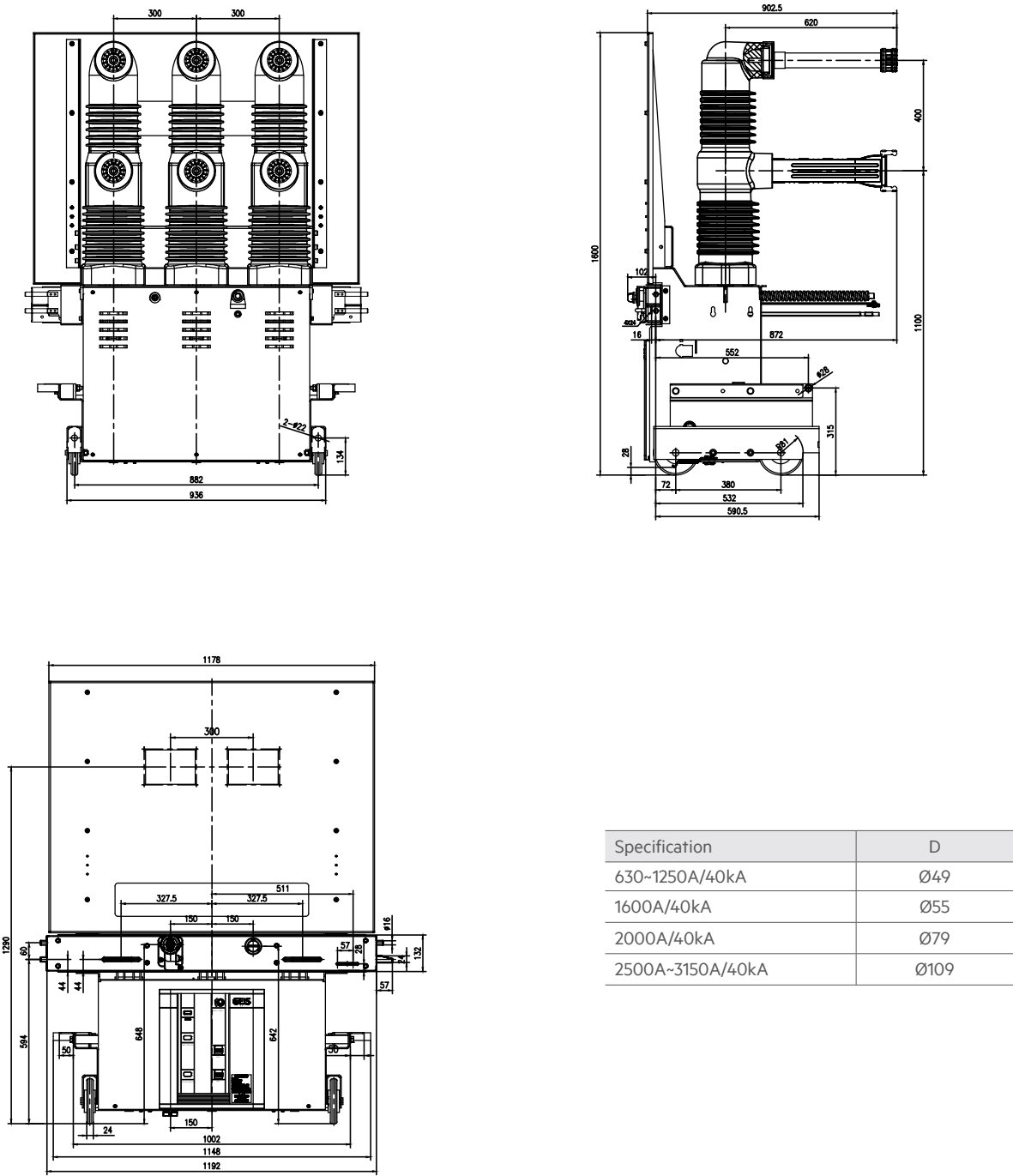
Fixed type



Selection Guide

40.5kV/630~3150A—40kA (P=300mm-Withdrawable)

Withdrawable type

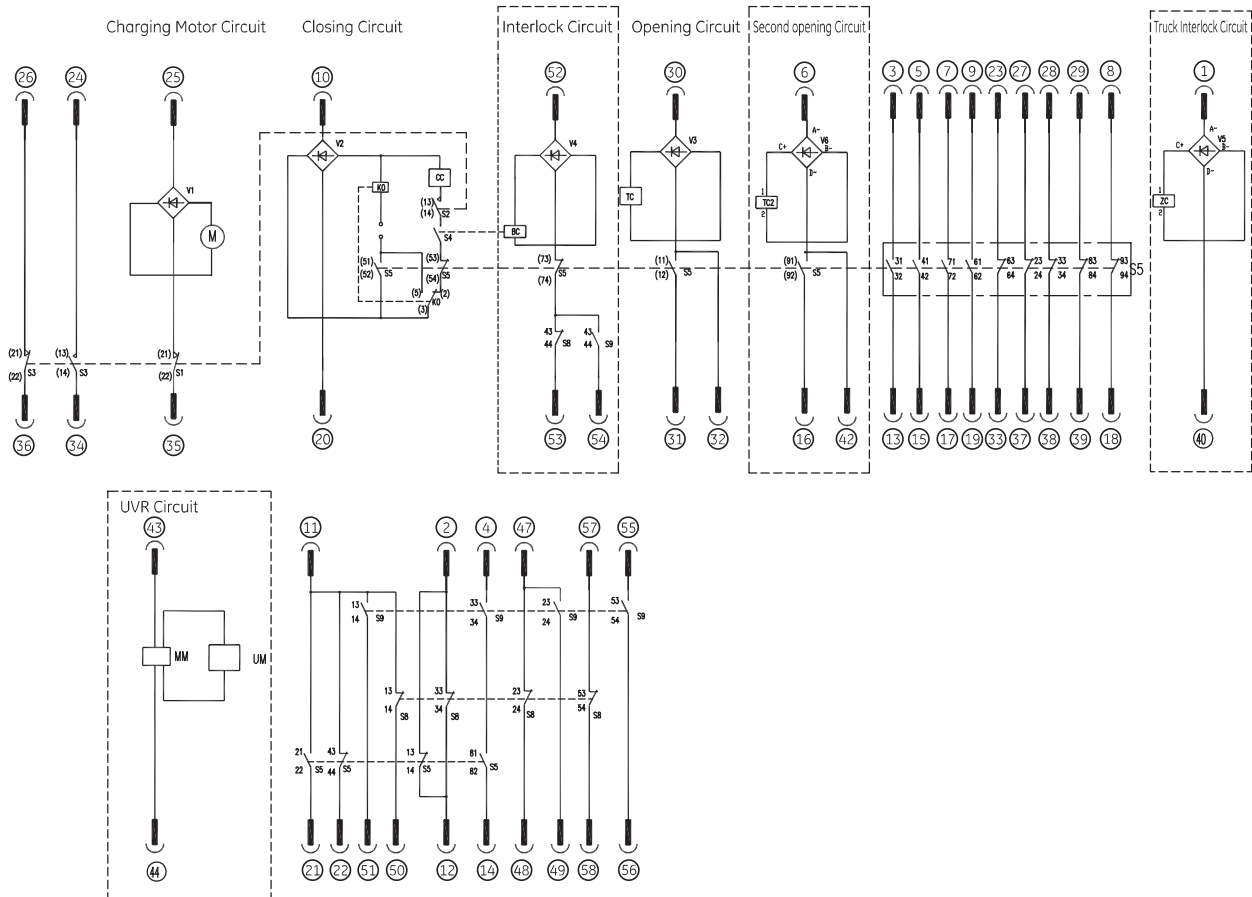


Specification	D
630~1250A/40kA	Ø49
1600A/40kA	Ø55
2000A/40kA	Ø79
2500A~3150A/40kA	Ø109

Selection Guide

SecoVac Vacuum Circuit Breaker Internal wiring diagram

Withdrawable



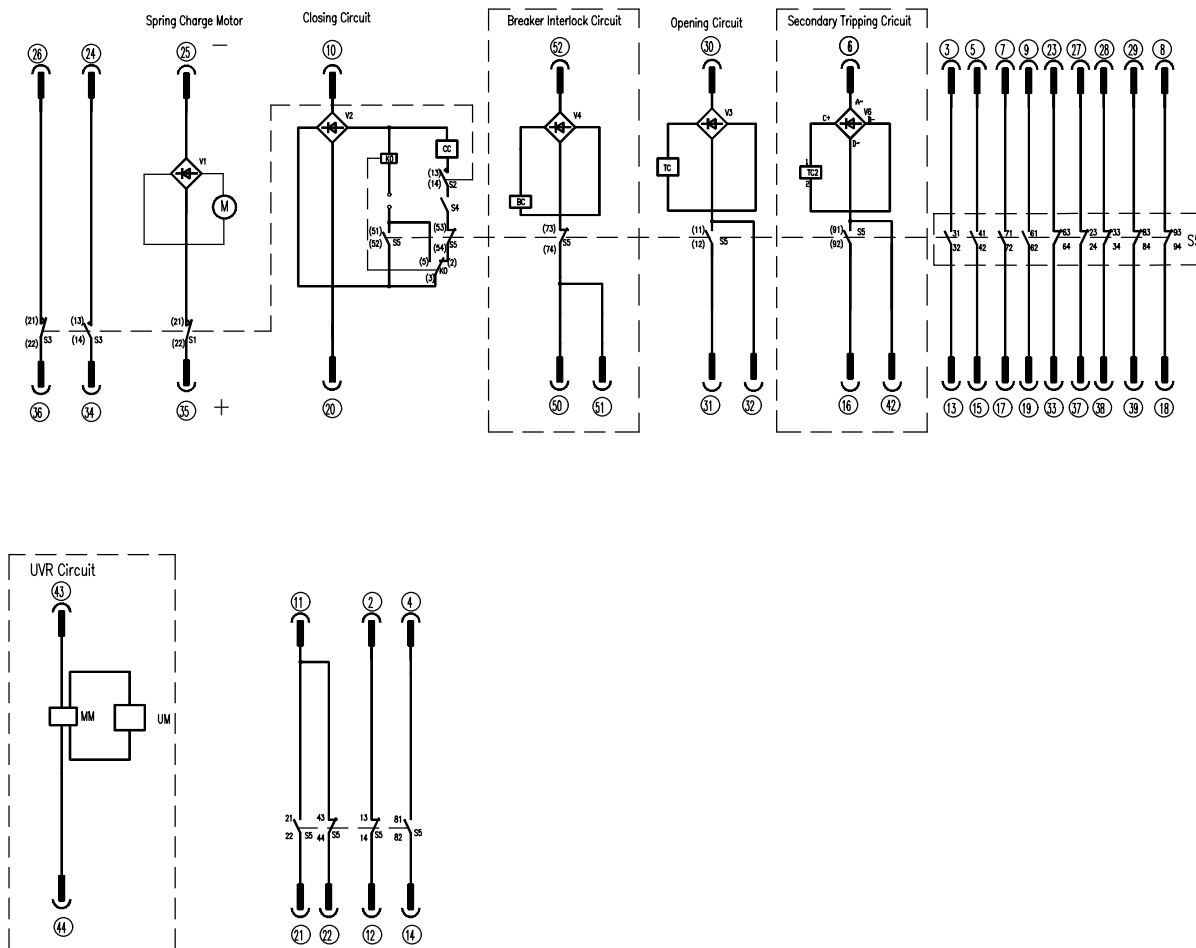
S9: Limit switch (working position)	CC: Closing coil	KO: Anti-pumping relay (optional)
S8: Limit switch (testing position)	TC: Opening coil	SC: Over current release Coil (optional)
S4: Electromagnet for locking's auxiliary switch	M: Energy storing motor	BC: Electromagnet for locking (optional)
S5: Auxiliary switch	TC2: Second opening coil	UM, MM: UVR coil
S1~S3: Energy storing travel switch	V1~V6: Rectifier	

Notes:

1. This wiring diagram describes that a breaker is uncharged and is in an opening state, and the handcart is in the testing position.
2. The dotted box for optional feature

Selection Guide

Fixed



S4: Electromagnet for locking's auxiliary switch	CC: Closing coil	KO: Anti-jumping relay (optional)
S5: Auxiliary switch	TC: Trip coil	UM.MM: UVR Coil (optional)
S1~S3: Energy storing travel switch	M:Energy storing motor	S9: Work position auxiliary contact
V1~V6: Rectifier	TC2: Opening coil (optional)	

Notes:

1. This wiring diagram describes that a breaker is uncharged and is in an opening state.
2. The dotted box for optional feature.
3. If the control voltage is DC24V,DC30V, no Rectifier ,so notecharging motor circuit +,-.

Ordering Check List

SecoVac 12kV/17.5kV Ordering check list

Project _____ Product _____

Order Quantity _____

Rated voltage: ☐ 12kV ☐ 17.5kV Installation Mode: ☐ Withdrawable ☐ Fixed

Pole type	☐ Embedded Pole		
Phase Distance	☐ 150mm	☐ 210mm	☐ 275mm
Rated current	☐ 630A ☐ 1250A	☐ 630A ☐ 1250A ☐ 1600A ☐ 2000A	☐ 1600A ☐ 2000A ☐ 2500A ☐ 3150A ☐ 4000A ☐ 5000A
Rated short-circuit breaking current	☐ 25kA ☐ 31.5kA	☐ 25kA ☐ 31.5kA ☐ 40kA ☐ 50kA	☐ 40kA ☐ 50kA

Remark: Conguration of related current and short circuit breaking current please refer to the table of installation dimension

Earthing mode: ☐ Earthing with copper bar at the bottom of truck ☐ Earthing with connector on the sides of truckRated operation voltage for mechanism: ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V ☐ Other_____Rated voltage for energy storing motor: ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V ☐ Other_____

*Function optional:

☐ Closing block magnet ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V ☐ Other_____

☐ Truck block magnet ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V ☐ Other_____

☐ Under Voltage Release ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V ☐ Other_____

☐ Anti-pumping function ☐ Second opening release

Special Request: _____

Signature of buyer _____ Date ____/____/____

*It will have additional cost if not a standard product(except anti-pump relay).

Ordering Check List

SecoVac 24kV/27kV Ordering check list

Project _____ **Product** _____

Order Quantity _____

Rated voltage: ☐ 24kV ☐ 27kV **Installation Mode:** ☐ Withdrawable ☐ Fixed

Pole type	☐ Embedded Pole					
Phase Distance	☐ 275mm					
Rated current	☐ 630A	☐ 1250A	☐ 1600A	☐ 2000A	☐ 2500A	☐ 3150A
Rated short-circuit breaking current	☐ 25kA	☐ 31.5kA				

Remark: Conguration of related current and short circuit breaking current please refer to the table of installation dimension

Earthing mode: ☐ Earthing with copper bar at the bottom of truck ☐ Earthing with connecter on the sides of truck

Rated operation voltage for mechanism: ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V ☐ Other_____

Rated voltage for energy storing motor: ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V ☐ Other_____

***Function optional:**

☐ Closing block magnet ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V ☐ Other_____

☐ Truck block magnet ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V ☐ Other_____

☐ Under Voltage Release ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V ☐ Other_____

☐ Anti-pumping function ☐ Second opening release ☐ Low Energy Trip Coil

Special Request: _____

Signature of buyer _____ **Date** _____ / _____ / _____

*It will have additional cost if not a standard product(except anti-pump relay).

Ordering Check List

SecoVac 40.5kV Ordering check list

Project _____ Product _____

Order Quantity _____

Rated voltage: ☐ 40.5kVInstallation Mode: ☐ Withdrawable ☐ Fixed

Pole type	☐ Embedded Pole					
Phase Distance	☐ 275mm					
Rated current	☐ 630A	☐ 1250A	☐ 1600A	☐ 2000A	☐ 2500A	☐ 3150A
Rated short-circuit breaking current	☐ 25kA	☐ 31.5kA				

Remark: Configuration of rated current and short circuit breaking current please refer to the table of installation dimension

Earthing mode: ☐ Earthing with copper bar at the bottom of truck ☐ Earthing with connector on the sides of truckRated operation voltage for mechanism: ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V ☐ Other_____Rated voltage for energy storing motor: ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V ☐ Other_____*Function optional: ☐ Closing block magnet ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V ☐ Other_____☐ Truck block magnet ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V ☐ Other_____☐ Under Voltage Release ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V ☐ Other_____☐ Anti-pumping function ☐ Second opening release ☐ Low Energy Trip Coil

Special Request: _____

Signature of buyer _____ Date _____ / _____ / _____

*It will have additional cost if not a standard product(except anti-pump relay).

GEIS

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This catalog may be subjected to revision without prior notice.

Version No.: GENCMVAA26V4

