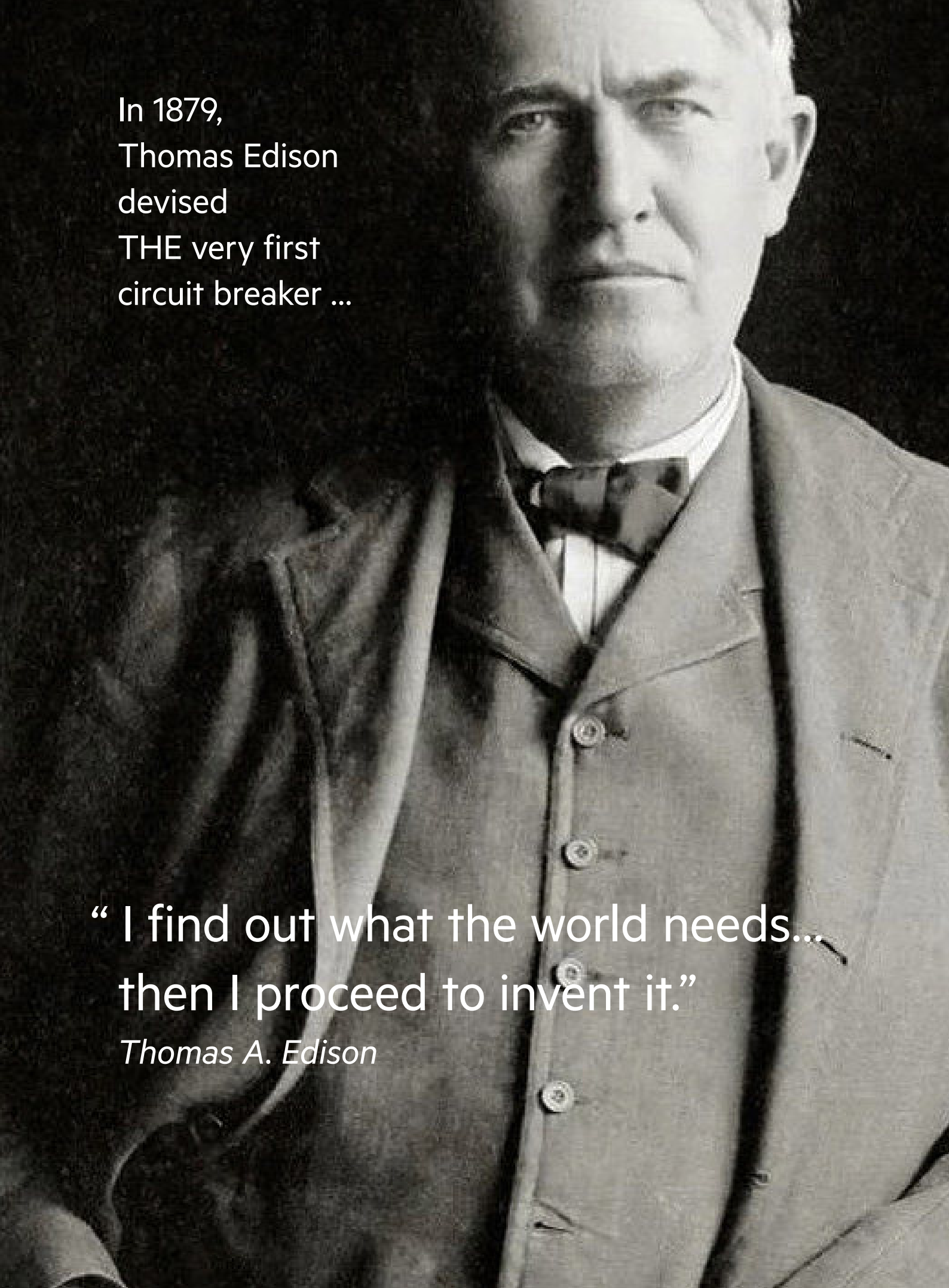


SecoVac

Medium Voltage
Vacuum Circuit Breaker



GEIS

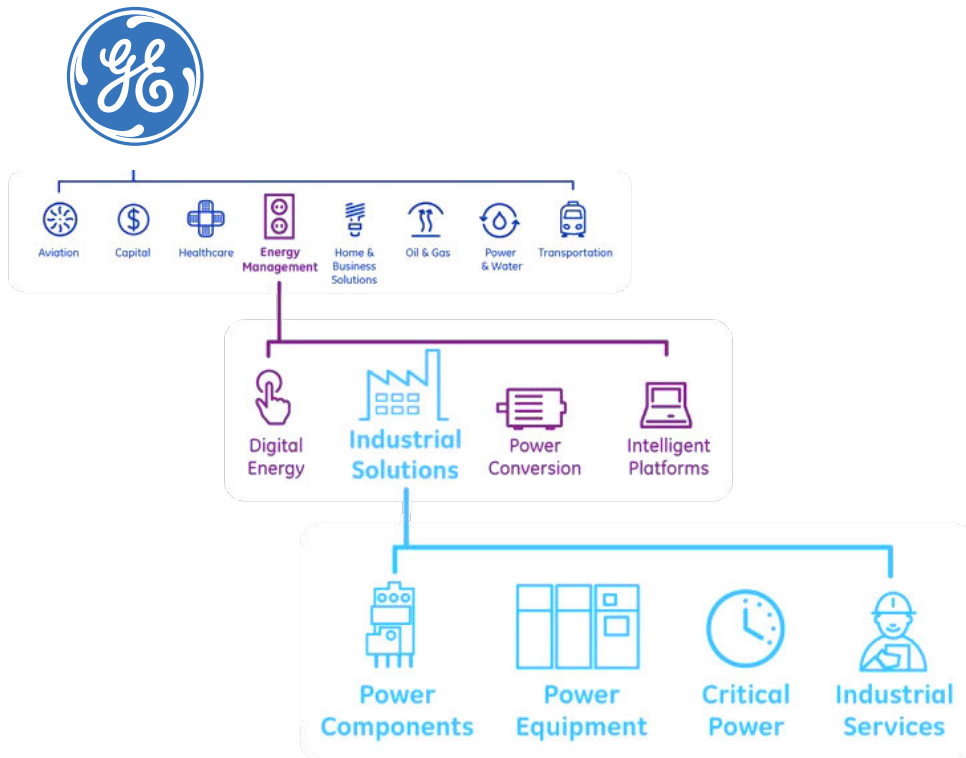
A black and white portrait of Thomas Edison, showing him from the chest up. He is wearing a dark suit jacket over a vest and a white shirt with a dark bow tie. He has a serious expression and is looking slightly to the right of the camera.

In 1879,
Thomas Edison
devised
THE very first
circuit breaker ...

“ I find out what the world needs...
then I proceed to invent it.”

Thomas A. Edison

The “GE Businesses” in 2017



The Proven Technology & Product Lines



SecoVac VCB



MPACT ACB



Elfa Series MCB/RCBO



MLS LV Switchgear



SecoGear MV Switchgear

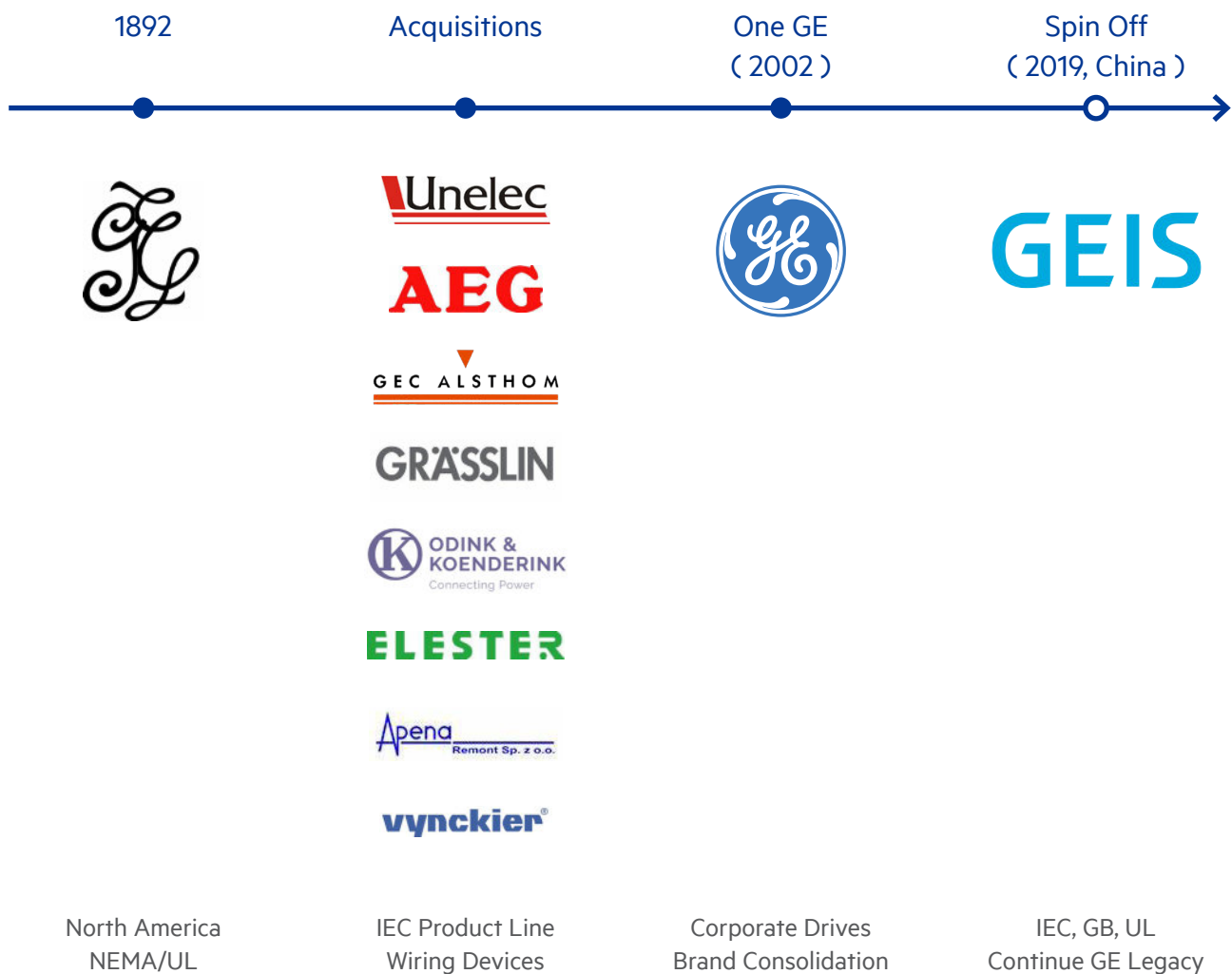


WaveCast Transformer

GEIS-Continue the GE Legacy

- Spun off of **GE Industrial Solutions'** China Business in December 2019
- A key platform for GE's medium and low voltage Electrical distribution & Control (ED&C) product lines: China for China and China for the World
 - Cast Coil Transformers Center of Excellence
 - Global ACB (400-6400A, 100KA), IEC/UL/GB Standard
 - Medium Voltage Equipment and Breaker: IEC, NEMA, GB
 - GE "Global Star Facility"
 - China Technology Center: NPI, Value Engineering
- Leading Technologies
 - Critical Power: ATS, Paralleling Switchgear, APF, SVG
 - New Electrification applications: EV Charging, PCM Energy Storage System
 - Microgrid: Multisource Power Supply, Integrated Energy Center, Ipv6 Compatible Gateway

The Evolution of Business and Brand



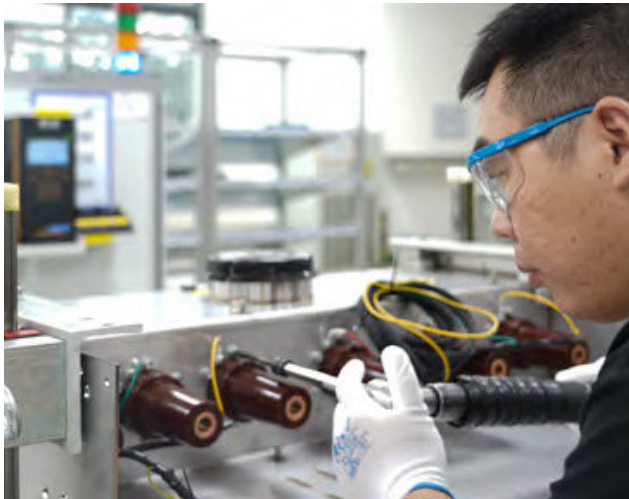
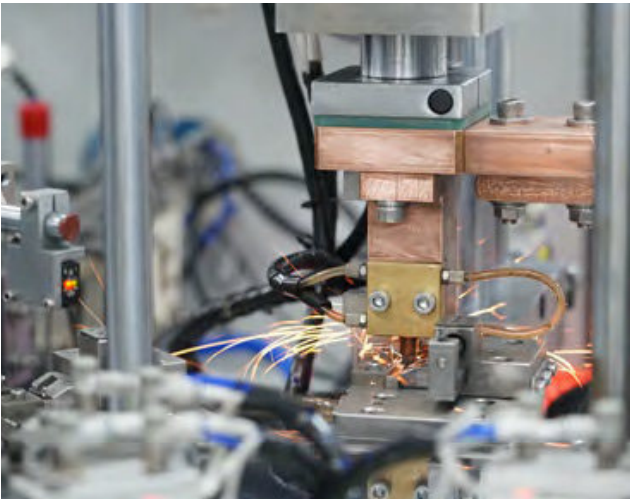
Our Products: From Component to System

200K+ SKUs & Customized Solution · China, USA, Latin America, SEA, Gulf Region

Electrical Components	Equipment & System	Critical Power	Energy Decarbonization
Innovative technologies for an energy-efficient electrical infrastructure	End-to-end electrical solutions to meet our customer's needs	Power technologies and network solutions for data center & telecom industries	New Electrification Storage Technology
<ul style="list-style-type: none">Structured standard productsElectrical control & distributionCircuit breakers, modular components, distributor flow goodsPlug& Play Upgrade kits	<ul style="list-style-type: none">Engineered or configured assembliesMedium- and low-voltage switchgear,MV Breakers & Contactors for Industrial ApplicationsControl equipment, Pwr Transformers, busway & package solutions	<ul style="list-style-type: none">Automatic Transfer SwitchesPower Compensation: Active and ReactivePallbearing Switchgear, Micro Grid BMS, DC Power Supply	<ul style="list-style-type: none">EV Charging technology: Charger, Platform, Optimization TechnologyDistributed Energy Storage technology: PCM Thermal Bank, Control System
			

Our Factory

GEIS headquarter was GE's Shanghai Operation hub, once a GE "Global Star" facility. The factory is upgraded to the latest MES system.



Brochure Content

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Technical Parameter	06
Installation Dimension	08
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Description



Product Overview

The VB2 Plus vacuum circuit breaker is an indoor three-phase AC device used within a rated voltage range of 12kV-40.5kV, which can be used for electrical equipment control and protection in industrial and mining enterprises, power plants and substations. The product complies with GB, DL and IEC standards, especially suitable for frequent work. The circuit breakers can be mounted in a fixed or removable switchgear, as the best choice for control and protection of medium voltage distribution systems.

Product Features

- **High-performance vacuum arc extinguishing**
 - The one-time seal-exhaust technology greatly simplifies the manufacturing process and improves the reliability, stability and consistency of the product.
 - The longitudinal magnetic field arc extinguishing technology increases the operating life and strengthens the arc extinguishing ability.
 - The use of high-quality bellows enhances the air tightness and reliability, and prolongs the performance life.
- **Embedded pole by APG casting**
 - The HV circuit is completely enclosed in solid insulating material with a high tightness and insulation.
- **Modular spring operating mechanism**
 - The modular spring operating mechanism is simple in concept and easy to use, and its mechanical life can reach up to 30000 operations.
 - Excellent surface protection ensuring reliable operation of the mechanism in harsh environments.
 - Self-lubricating bearings meeting special requirements, ensuring the long life of the mechanism and achieving maintenance free operation.
- **Intelligent configuration**
 - Intelligent monitoring, and real-time sensing of temperature changes at key points of the circuit breaker; perfect mechanical characteristics and secondary element monitoring for timely finding out and mastering the circuit breaker performance breaker; provided with a handcart-type motor drive function to achieve remote input and output control under one-click sequential control; provided with digital analysis and complete functions such as predicting possible faults and achieving pre-maintenance.

Description



Quick Model Selection

VB2 Plus
Product series

-12
Rated voltage
12-12kV
17.5-17.5kV
24-24kV

/T
Operating mode
T: Spring

1250
Rated current
630-630A
1250-1250A
1600-1600A
2000-2000A
2500-2500A
3150-3150A
4000-4000A
5000-5000A

-31.5
Rated breaking current
25-25kA
31.5-31.5kA
40-40kA
50-50kA

W
Installation mode
W: Withdrawable
F: Fixed

VB
Product series

-40.5
Rated voltage
40.5-40.5kV

/T
Operating mode
T: Spring

1250
Rated current
630-630A
1250-1250A
1600-1600A
2000-2000A
2500-2500A
3150-3150A

-31.5
Rated breaking current
25-25kA
31.5-31.5kA

B
Installation position
Blank: Mid-installation
B: Floor

W
Installation mode
W: Withdrawable
F: Fixed

Description

Product Standard

The products fully comply with GB, DL, IEC and VDE standards and are widely used in the protection and control of medium voltage power distribution system in energy, infrastructure, industrial, commercial and civil construction:

IEC622271-100-2012	《High Voltage AC Circuit Breaker》
IEC60694-2002	《Common Specification for High Voltage Switchgear and Controlgear Standards》
GB1984-2014	《High Voltage AC Circuit Breaker》
DIN VDE 0671	《High-voltage Switchgear and Controlgear》

SecoVac VB2 Plus VCB have passed all kinds of test as below, to make sure the products can work steadily and reliably with correct installation.

- **Type test**

Temperature rise test, power-frequency withstand test, lightning impulse withstand test, short time/peak withstand test, mechanical endurance test, short circuit breaking test and cable off-load switching capacity test

- **Special test**

Insulation test and temperature test under the altitude 2500m
Capacitor bank breaking test test(630A single capacitor set)

- **Outgoing inspection**

Mechanical test, power-frequency withstand test, insulation test for control system, resistance test for main loop, mechanical and electrical operation check

Environmental Data

- **The conditions of temperature**

- The ambient air temperature does not exceed 40 °C
- The minimum ambient air temperature is -25 °C
- The average value of ambient air temperature measured over a period of 24 h, does not exceed 35 °C

- **The conditions of humidity (25°C)**

- the average value of the relative humidity, measured over a period of 24 h, does not exceed 95%
- the average value of the relative humidity, measured over a period of one month, does not exceed 90%;
- the average value of the water vapour pressure, over a period of 24h, does not exceed 2.2kPa
- the average value of the water vapour pressure, over a period of one month, does not exceed 1.8 kPa.

- **The conditions of earthquake intensity**

- no more than 8 degree.

- **The conditions of altitude**

- The altitude does not exceed 1000m
- We can also offer the product which can exceed -2500m altitude, buyer need to check with the manufacture firstly when placing order

- **Others**

- Storing place should be free from condensation, fire, explosion, chemical corrosion, severe dirty and heavy shakes condition.
- The ambient air is not significantly polluted by dust, smoke, corrosive and/or flammable gases, vapors or salt. EMI should not exceed 1.6kV in the secondary system.

Description

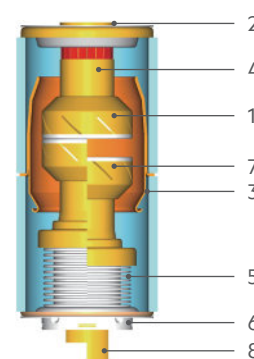
Predominant Vacuum Technology

Vacuum switching technology is nowadays the dominant switching principle in medium voltage. Innovative developments are leading to a continuously increasing market growth, based on the fundamental advantages such as reliability, availability, compactness and, last but not least, the environmental friendliness of the vacuum as a switching medium.

Vacuum Interrupter

The switching element of the vacuum circuit-breaker is the vacuum interrupter. It consists of an arc chamber, which is located between two ceramic insulators. Terminal studs connect the contacts to the external terminals. One contact is fixed within the housing, the other one is moveable. The metal bellows enable the contact movement and provide a hermetic connection to the interrupter housing. The contact stroke is only a few millimeters. The internal pressure in the vacuum interrupter is less than 10^{-7} bar. The vacuum circuit-breaker has no arc-quenching medium. The properties of the contact material and the contact geometry define the switching behavior and the switching capacity.

After contact separation, resultant arc evaporates contact material from the contact surfaces. The arc current thus flows through a material vapour plasma until the next current zero. Near the current zero, the arc is extinguished, and the metal loses its conductivity within a few microseconds as a consequence of the recombination of the charge carrier ions. In this way, the contact gap is de-ionized and the dielectric strength is restored very fast. The metal vapour condenses on the contact surfaces. Only a very small portion condenses on the arc chamber wall. The arc chamber wall has the function of a vapour shield, to prevent condensation of the metallic vapour onto the insulators.

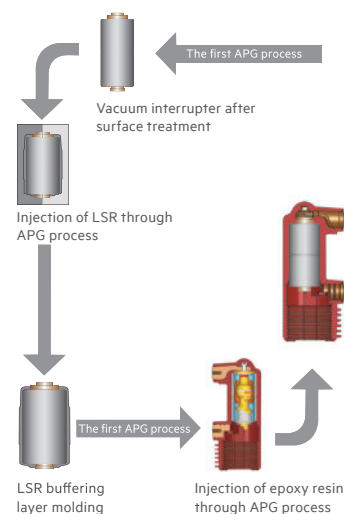


1. Fixed contact piece
2. Connection disc
3. Ceramic insulator
4. Arc chamber
5. Metal bellows
6. Guide
7. Moving contact piece
8. Moving contact piece terminal

Automatic Pressure Gelation

A special cushion layer made of high insulation, gas tight and strong elastic material was employed around the surface of the ceramic tube of vacuum interrupter before it was embedded, so the cracking is thoroughly avoided.

VB2 Plus is the first completed series MV embedded pole vacuum circuit breaker in the world which employs the latest and mature technology of Automatic Pressure Gelation (APG) to embed the vacuum interrupter and connection terminals within epoxy resin. Compared with complete air insulated vacuum circuit breaker or assembly pole vacuum circuit composite insulation, VB2 Plus is of solid insulation, on one hand, the risk of insulation fault caused by adverse operating environment such as dust, humidity and small animals are eliminated thoroughly, so VB2 Plus is a vacuum circuit breaker with high environmental resistance. On the other hand, thanks to the embedded pole design, the distribution of electrical field of the pole is much even than that in the assembly pole vacuum circuit breaker, so the insulation strength is improved dramatically.



Description

Embedded poles

Vacuum interrupter has extremely high internal dielectric strength resulting from the UIV while the external dielectric strength is however limited by the insulation capacity of the air, therefore also requires embedding the chamber in a solid material. In such cases, the vacuum interrupter is additionally well protected against external mechanical influences such as impacts.

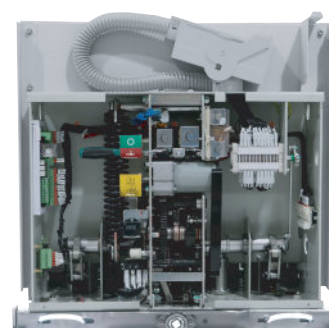
The main advantages of embedded poles are high dielectric strength without additional external compensation in air, usability in an extremely wide range of climatic of the vacuum protection interrupter from dust, mechanical impacts and moisture. On the operating mechanism side, it is equipped with modularized, standardized and simplified spring mechanism, the whole spring mechanism is made up of separated closing and opening modules which can be preassembled and easily replaced on-site of end-users without any changing of the original dynamic characteristic of the breaker, so the lead time for delivery and down time for maintenance will be shortened.

Modular Operation Mechanism

VB2 Plus series MV embedded pole vacuum circuit breaker is equipped with modularized, standardized and simplified operating mechanism. VB2 Plus series MV embedded pole vacuum circuit breaker is equipped with modularized, standardized and simplified operating mechanism, the mechanism consists of separated closing and opening modules, all the mechanical parts of the mechanism are integrated into these two modules. The closing and opening modules are universal to whole series of VB2 Plus embedded pole vacuum circuit breaker regardless of ratings, it means there is only one kind of closing and opening module for the whole SecoVac products family, thanks to such a design, the maintenance time and cost for the mechanism is low, the replacement of modules can be easily carried out on site. There is no impact on the original dynamic characteristic of the breaker after the replacement of modules, so the retest of the breaker is not required after the replacement of modules.

Another feature of the operating mechanism of VB2 Plus series MV embedded pole vacuum circuit breaker is that the total number of parts of the mechanism is reduced compared with the traditionally designed mechanism, so that the reliability of the mechanism is enhanced significantly.

The opening damper of the mechanism plays a very important role to ensure reliable performance and high mechanical endurance of VB2 Plus series MV embedded pole vacuum circuit breaker. By adoption of the opening damper, the overtravel and re-bounce of moving contacts of vacuum interrupters during the opening of this VCB is reduced to a minimum. The lower overtravel of the moving contacts means lower mechanical stress to the bellows of the vacuum interrupter, so the designed mechanical endurance of the vacuum interrupter is guaranteed. The lower re-bounce of the contact ensures low arc re-striking probability during the breaking of capacitive current, so the occurrence rate of operating overvoltage is reduced. By the contribution of the opening damper, VB2 Plus has successfully passed type tested as Class C2 breaker in accordance with IEC standards.



Modular Operation Mechanism

Technical Parameter

Main Technical Parameter

Item	Unit	Value			
Rated voltage	kV	12	17.5	24	40.5
Rated current	A	630 1250 1600 2000 2500 3150 4000* 5000*	630 1250 1600 2000 2500 3150 4000* 5000*	630 1250 1600 2000 2500 3150*	630 1250 1600 2000 2500 3150*
Rated power frequency withstand voltage(1min)	kV	42	38	65	95
Rated lightning impulse withstand voltage	kV	75	95	125	185
Rated frequency	Hz	50/60	50/60	50/60	50/60
Rated short circuit breaking current	kA	25 31.5 40 50	25 31.5 40 50	25 31.5	25 31.5
Rated short time withstand current(4s)	kA	25 31.5 40 50	25 31.5 40 50	25 31.5	25 31.5
Rated peak withstand current	kA	63 80 100 125	63 80 100 125	63 80	63 80
Rated peak making current	kA	63 80 100 125	63 80 100 125	63 80	63 80
Operation sequence	kA	O-0.3s-CO-180s-CO (equal or lower than 40kA) O-180s-CO-180s-CO (50kA)	O-0.3s-CO-180s-CO (equal or lower than 40kA) O-180s-CO-180s-CO (50kA)	O-0.3s-CO- 180s-CO	O-0.3s-CO- 180s-CO
Breaker grade		E2-M2-C2	E2-M2-C2-S1	E2-M2-C2	E2-M2-C2
Mechanical endurance	Cycles	30000	10000	30000	10000
Short circuit/breaking endurance	Cycles	50	E2 class 274	30	30

*Air cooled cabinet

Technical Parameter

Other Technical Parameter

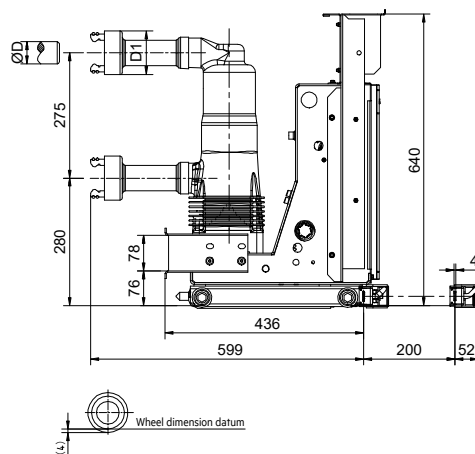
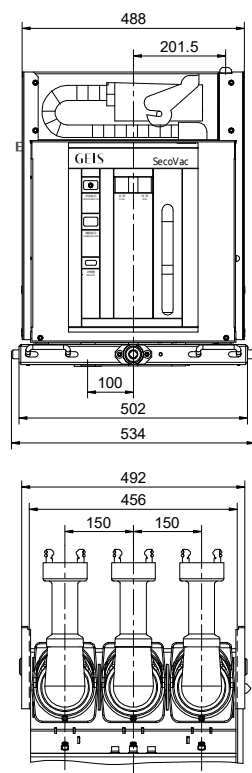
Item	Unit	Value			
Rated voltage	kV	12	17.5	24	40.5
Closing time(rated voltage)	ms	20~50			
Opening time(rated voltage)	ms	30~70			
Clearance between Contact	mm	9±1	9±1	13±1	18±1
Overtravel	mm	3.5±0.5	3.5±0.5	4±1	4±1
Contact closing tripping time	ms	≤2	≤2	≤2	≤3
Synchronization of 3-phase contact closing and opening	ms	≤2	≤2	≤2	≤3
Average opening speed	m/s	0.9 ~ 1.3	0.9 ~ 1.3	1.1 ~ 1.6	1.3 ~ 1.9
Average closing speed	m/s	0.4 ~ 0.8	0.4 ~ 0.8	0.6 ~ 1.0	0.5 ~ 1.0
Loop resistance	μΩ	≤50 (630A)	≤45 (1250A)	≤40 (1600~2000A)	≤35 (over 2500A)
Rated operation voltage for mechanism	V	AC:110,220 DC:110,220			
Rated voltage for energy storing motor	V	AC:110,220 DC:110,220			
Energy storing period	S	≤10			

Mechanism and electromagnetic coils

Rated operation voltage(V)	Energy storing motor(A)	Closing electromagnetic coil(A)	Opening electromagnetic coil(A)	Blocking magnet(mA)
110 DC	2.0	2.2	2.2	35
220 DC	1.0	1.3	1.3	20

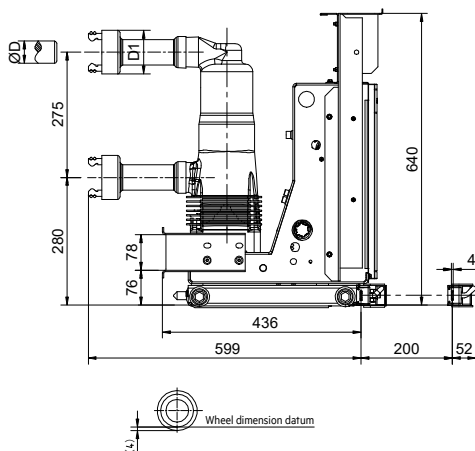
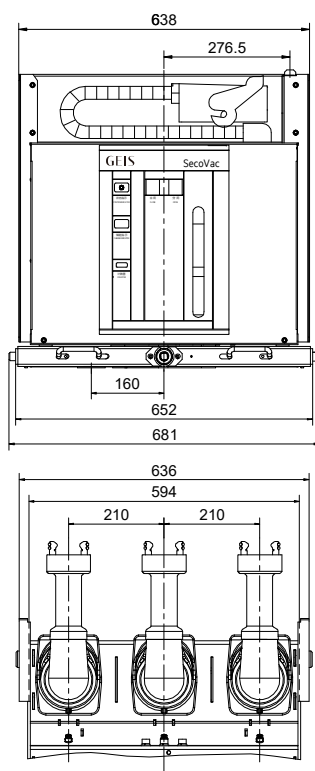
Installation Dimension

12kV and 17.5kV Withdrawable Embedded Pole - P=150mm



Type	D
630A/25~31.5kA	φ35
1250A/25~31.5kA	φ49

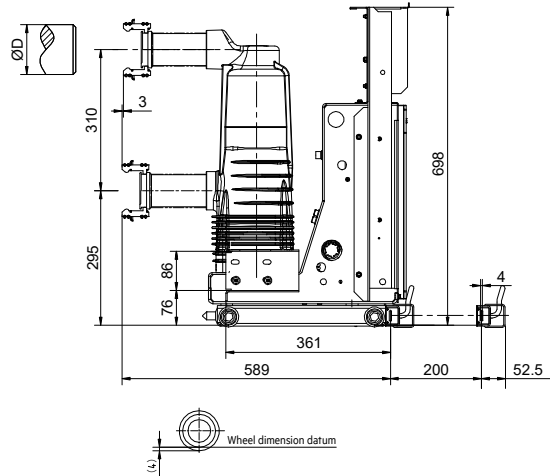
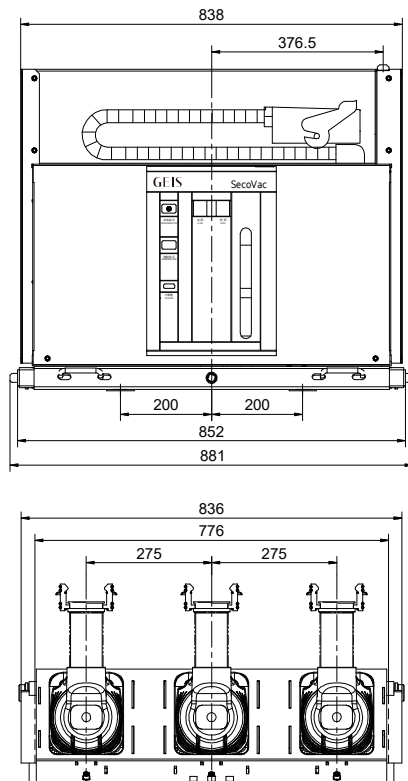
12kV and 17.5kV Withdrawable Embedded Pole - P=210mm



Type	D
630A/25~31.5kA	φ35
1250A/25~31.5kA	φ49
1250A/40kA	φ49
1600A/31.5~40kA	φ55

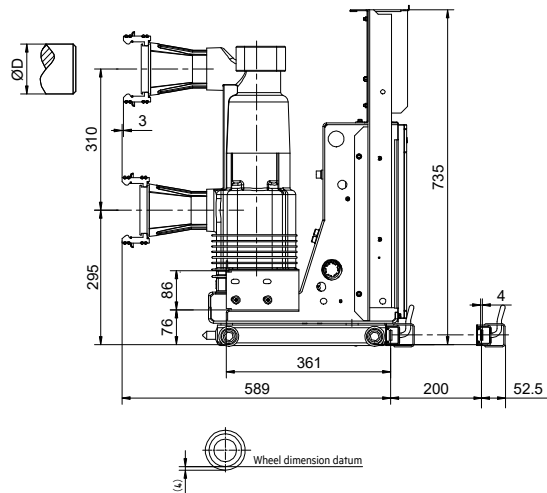
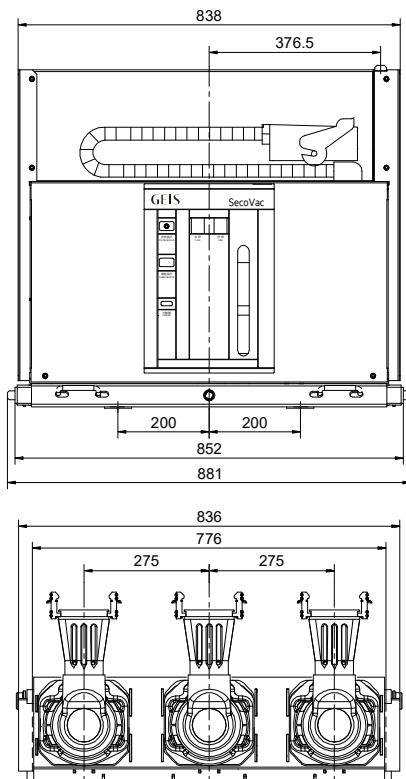
Installation Dimension

12kV and 17.5kV Withdrawable Embedded Pole - P=275mm



Type	D
1600A/31.5~40kA	φ79
2000A/31.5~40kA	φ79

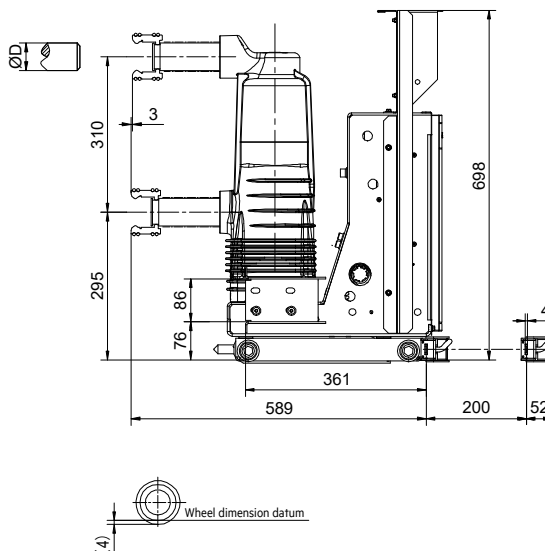
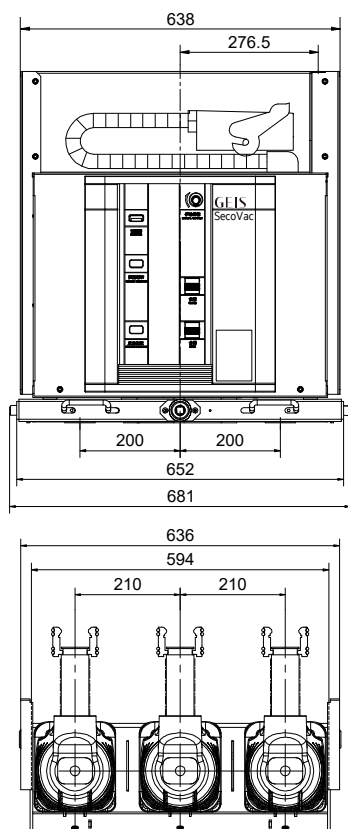
12kV and 17.5kV Withdrawable Embedded Pole - P=275mm



Type	D
2500A/31.5~40kA	φ109
3150A/31.5~40kA	φ109
4000A/40~40kA	φ109

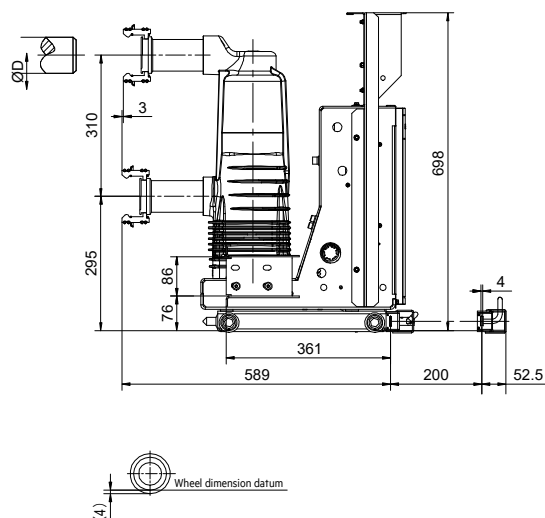
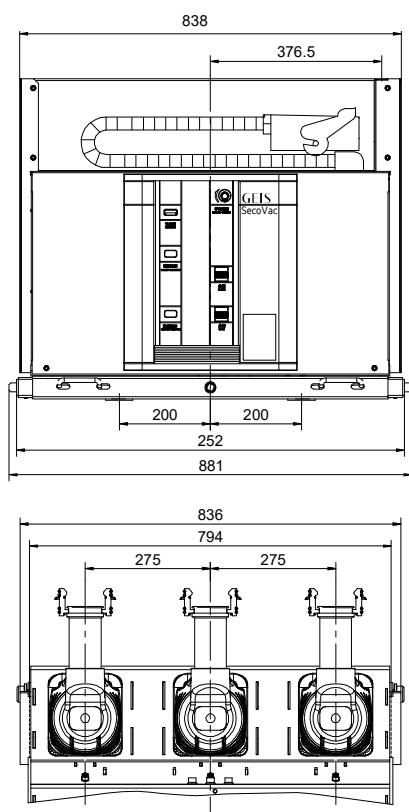
Installation Dimension

12kV and 17.5kV Withdrawable Embedded Pole - P=210mm (50kA)



Type	D
1250~1600A/50kA	φ55
2000A/50kA	φ55

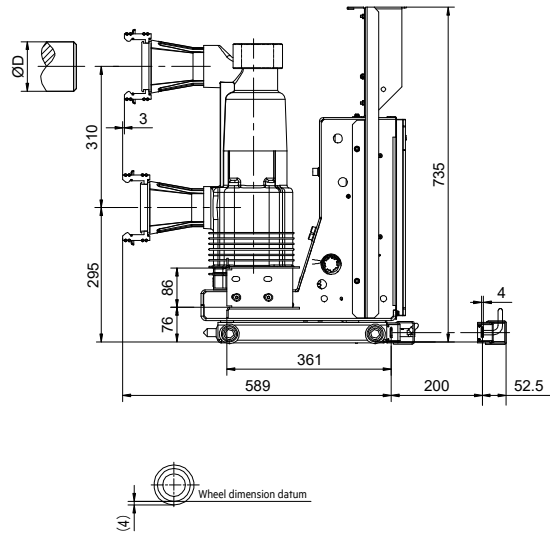
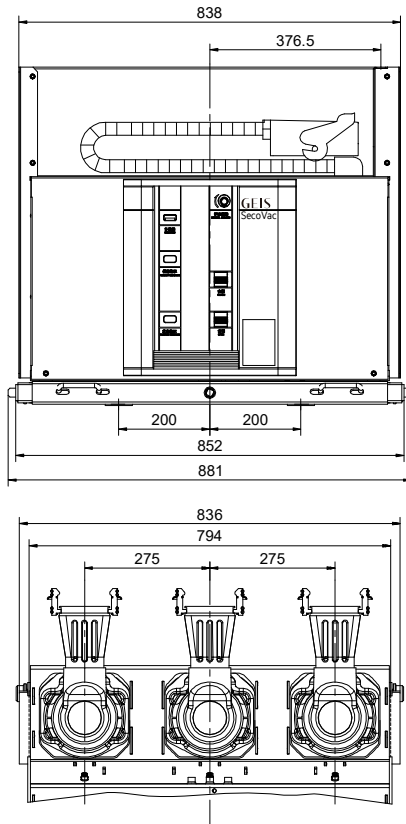
12kV and 17.5kV Withdrawable Embedded Pole - P=275mm (50kA)



Type	D
1250~1600A/50kA	φ79
2000A/50kA	φ79

Installation Dimension

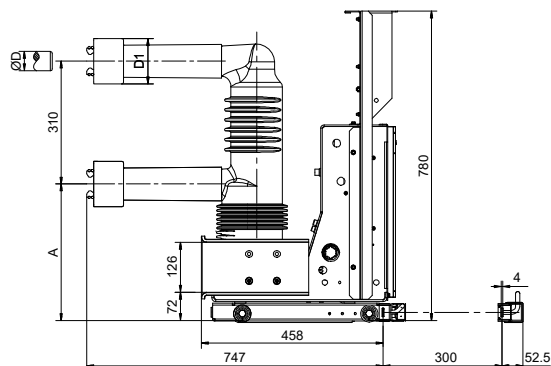
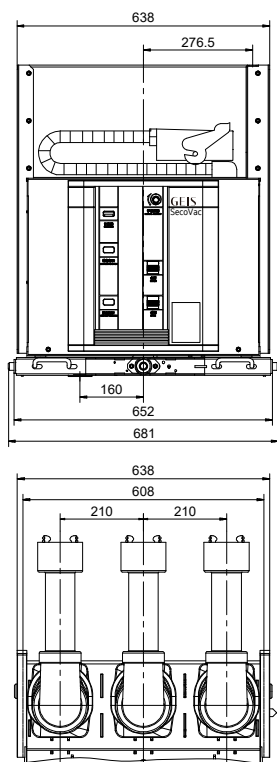
12kV and 17.5kV Withdrawable Embedded Pole - P=275mm (50kA)



Type	D
2500A/50kA	φ109
3150A/50kA	φ109
4000A/50kA	φ109
5000A/50kA	φ109

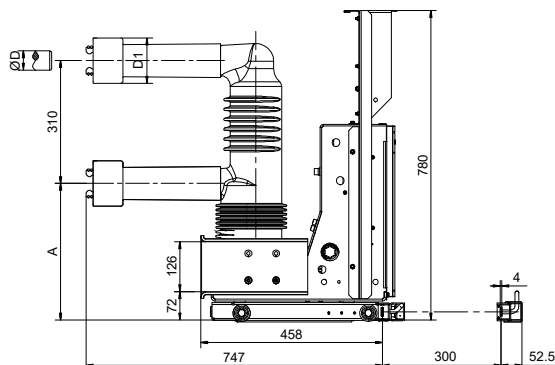
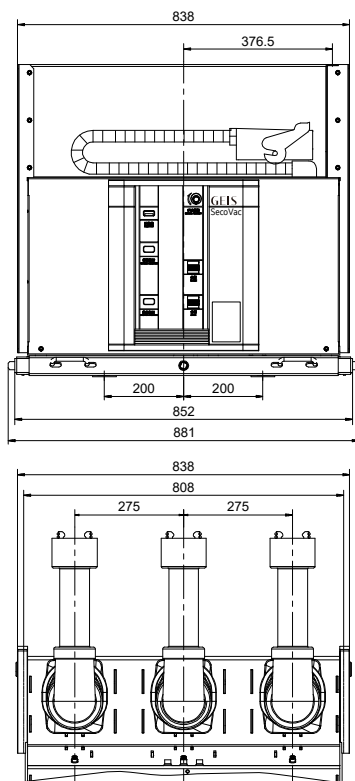
Installation Dimension

24kV Withdrawable Embedded Pole - P=210mm



Type	D	D1
630A/25~31.5kA	φ35	φ114
1250A/25~31.5kA	φ49	φ114
1600A/31.5kA	φ55	φ114

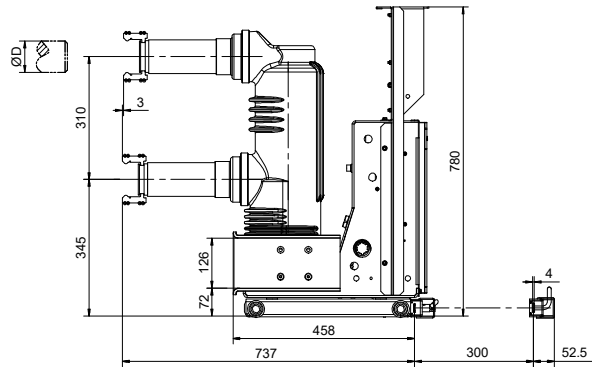
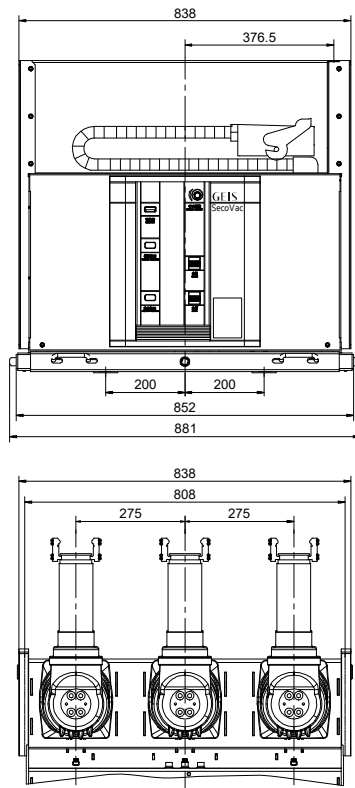
24kV Withdrawable Embedded Pole - P=275mm



Type	D	D1
630A/25~31.5kA	φ35	φ114
1250A/25~31.5kA	φ49	φ114
1600A/31.5kA	φ55	φ114

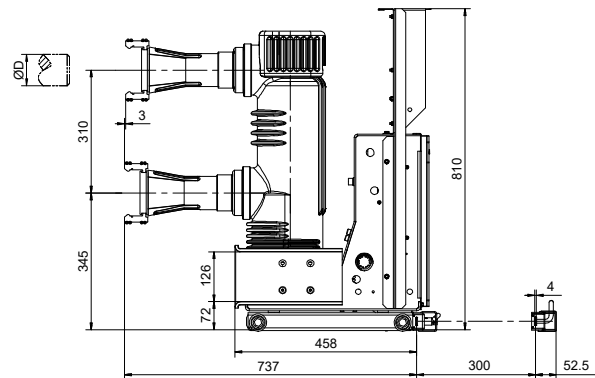
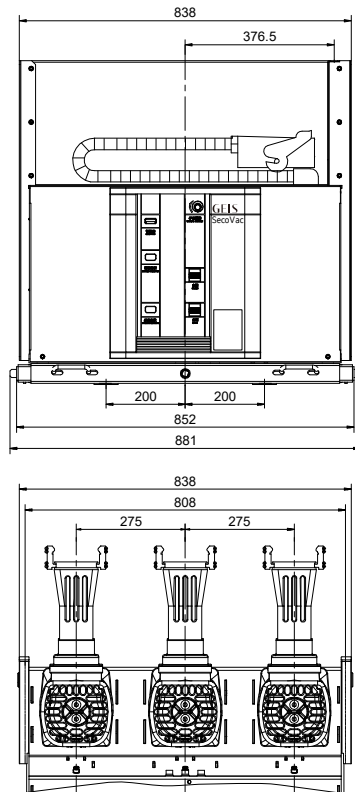
Installation Dimension

24kV Withdrawable Embedded Pole - P=275mm



Type	D
2000A/25~31.5kA	φ79

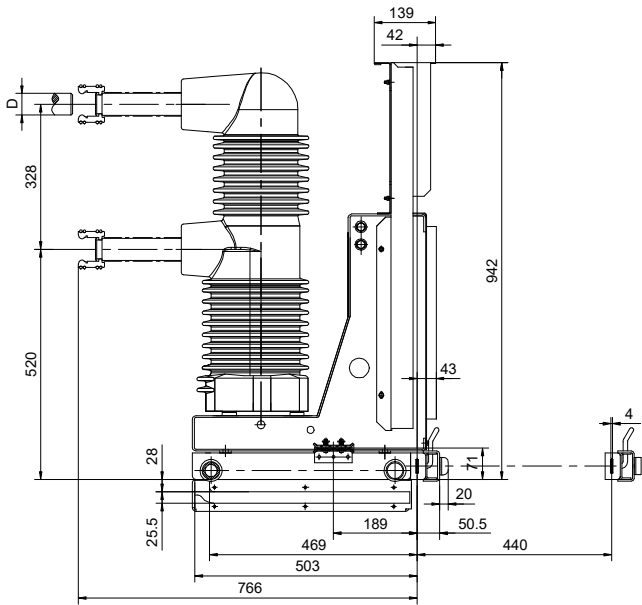
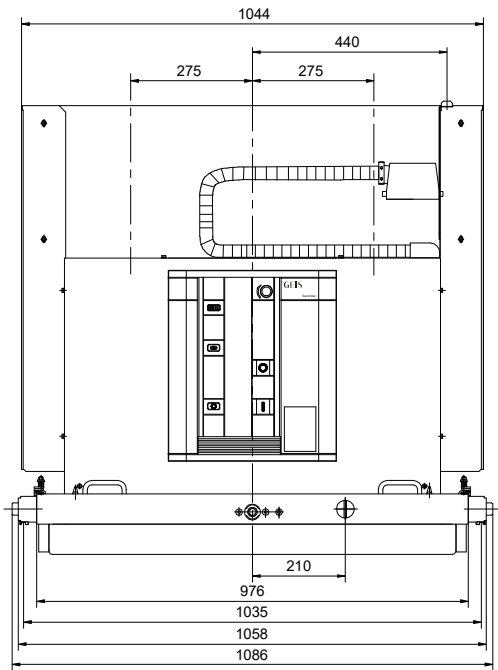
24kV Withdrawable Embedded Pole - P=275mm



Type	D
2500A/25~31.5kA	φ109
3150A/25~31.5kA	φ109

Installation Dimension

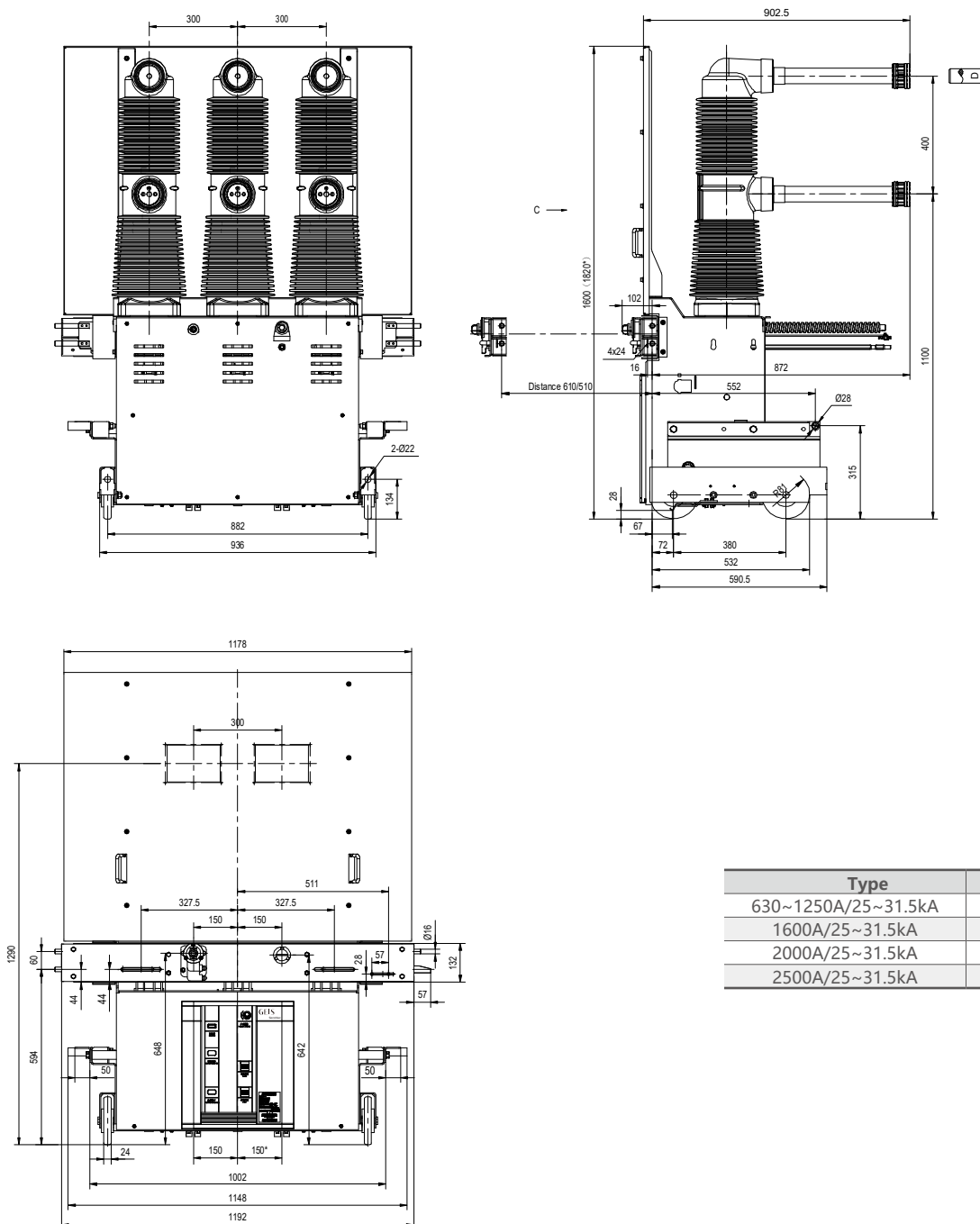
40.5kV Withdrawable Embedded Pole



Type	D
630~1250A/25~31.5kA	Φ49
1600A/25~31.5kA	Φ55
2000A/25~31.5kA	Φ79
2500A/25~31.5kA	Φ109

Electrical Connection Diagram

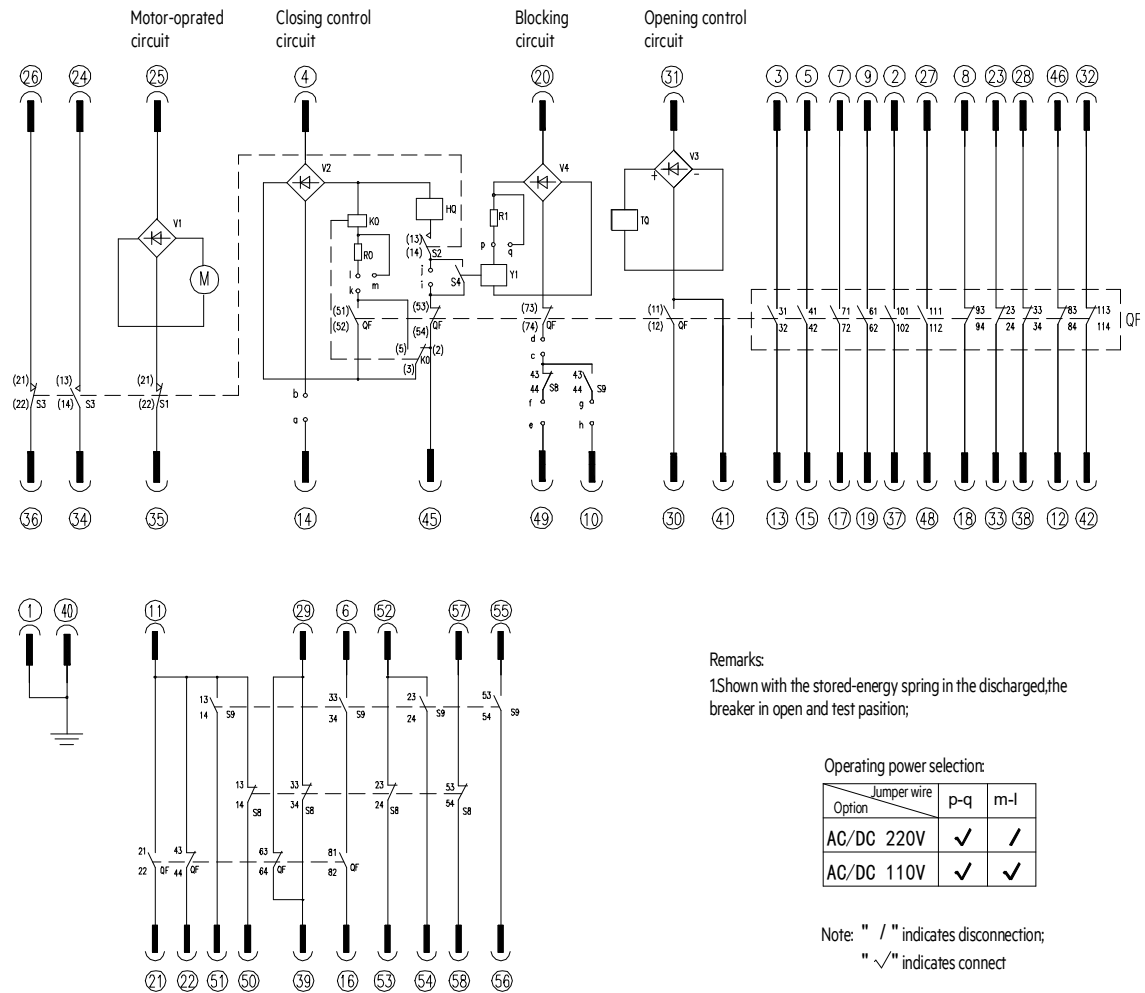
40.5kv VCB on truck Embedded Pole



Type	D
630~1250A/25~31.5kA	Φ49
1600A/25~31.5kA	Φ55
2000A/25~31.5kA	Φ79
2500A/25~31.5kA	Φ109

Electrical Connection Diagram

Withdrawable (58Pin)

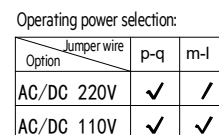


Optional wiring setting:

Option	Jumper wire	a-b	c-d	e-f	g-h	a-f	a-g	b-c	i-j	l-k
■ Anti-pumping relay	■ Blocking coil	✓	✓	✓	✓	/	/	/	/	✓
	□ Blocking coil	/	/	/	/	✓	✓	✓	✓	✓
□ Anti-pumping relay	■ Blocking coil	✓	✓	✓	✓	/	/	/	/	/
	□ Blocking coil	/	/	/	/	✓	✓	✓	✓	/

S9: Limit switch	HQ: Closing coil	V1~V4: Rectifier
S8: Limit switch	TQ: Opening coil	K0: Anti-pumping relay(Optional)
S4: Auxiliary switch for blocking coil	R0~R1: Resistance	Y1: Blocking coil(Optional)
S1~S3: Energy storage position switch	a~q: Jumper terminal	
QF: Auxiliary switch	M: Energy-storage motor	

Withdrawable (64Pin)



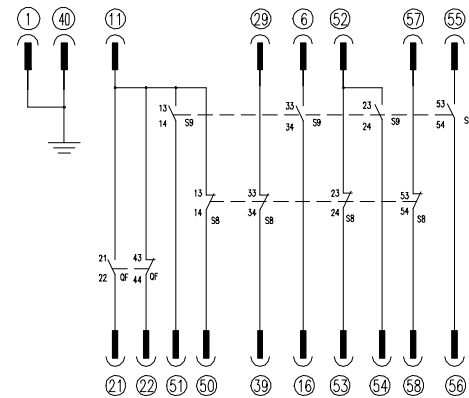
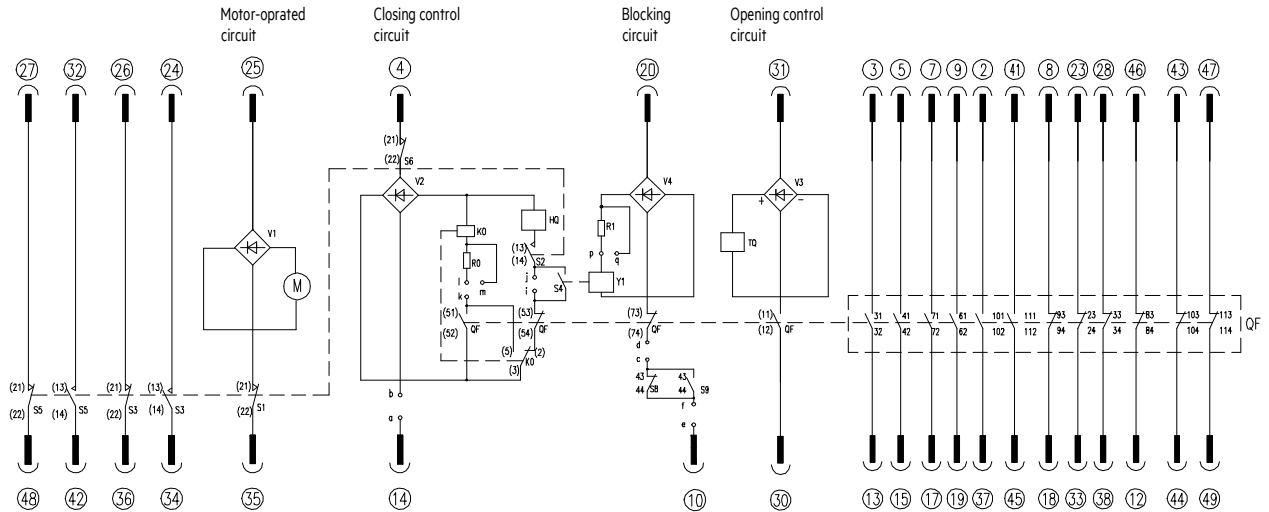
Note: " / " indicates disconnection;
" ✓ " indicates connect

Jumper wire		a-b	c-d	e-f	g-h	a-f	a-g	b-c	i-j	i-k
■ Anti-pumping relay	■ Blocking coil	✓	✓	✓	✓	/	/	/	/	✓
	□ Blocking coil	/	/	/	/	✓	✓	✓	✓	✓
□ Anti-pumping relay	■ Blocking coil	✓	✓	✓	✓	/	/	/	/	/
	□ Blocking coil	/	/	/	/	✓	✓	✓	✓	/

S9: Limit switch	HQ: Closing coil	V1~V4: Rectifier
S8: Limit switch	TQ: Opening coil	K0: Anti-pumping relay(Optional)
S4: Auxiliary switch for blocking coil	RO~R1: Resistance	Y1: Blocking coil(Optional)
S1~S3: Energy storage position switch	a~q: Jumper terminal	GK-1: Controller
QF: Auxiliary switch	M: Energy-storage motor	SC: Overcurrent trip coil(Optional)

Electrical Connection Diagram

VCB on truck (64Pin)



Remarks:

1 Shown with the stored-energy spring in the discharged, the reaker in open and test position;

Optional wiring setting:

Option	Jumper wire	a-b	c-d	e-f	a-f	b-c	i-j	i-k
■ Anti-pumping relay	■ Blocking coil	✓	✓	✓	/	/	/	✓
	□ Blocking coil	/	/	/	✓	✓	✓	✓
□ Anti-pumping relay	■ Blocking coil	✓	✓	✓	/	/	/	/
	□ Blocking coil	/	/	/	✓	✓	✓	/

Operating power selection:

Option	Jumper wire	p-q	m-l
AC/DC 220V		✓	/
AC/DC 110V		✓	✓

Note: " / " indicates disconnection;
" ~ " indicates connect

S9: Limit switch	HQ: Closing coil	V1~V4: Rectifier
S8: Limit switch	TQ: Opening coil	K0: Anti-pumping relay(Optional)
S4: Auxiliary switch for blocking coil	R0~R1: Resistance	Y1: Blocking coil(Optional)
S1~S3: Energy storage position switch	a~q: Jumper terminal	S6: Position locking of propulsion mechanism
QF: Auxiliary switch	M: Energy storage motor	

Order Sheet

SecoVac 12kV/17.5kV Ordering check list

Project _____ Product _____

Order Quantity _____

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

Pole type	<input type="radio"/> Embedded Pole					
Phase Distance	<input type="radio"/> 150mm		<input type="radio"/> 210mm		<input type="radio"/> 275mm	
Rated current	<input type="radio"/> 630A		<input type="radio"/> 630A		<input type="radio"/> 1600A	<input type="radio"/> 2000A
	<input type="radio"/> 1250A		<input type="radio"/> 1250A		<input type="radio"/> 2500A	<input type="radio"/> 3150A
			<input type="radio"/> 1600A		<input type="radio"/> 4000A	<input type="radio"/> 5000A
			<input type="radio"/> 2000A			
Rated short circuit breaking current	<input type="radio"/> 25kA		<input type="radio"/> 25kA		<input type="radio"/> 31.5kA	
	<input type="radio"/> 31.5kA		<input type="radio"/> 31.5kA		<input type="radio"/> 40kA	
			<input type="radio"/> 40kA			
			<input type="radio"/> 50kA		<input type="radio"/> 50kA	

Remark: Configuration 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 ☐ AC220VRated voltage for energy storing motor: ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220VSecondary wiring: ☐ Withdrawable Method(64Pin) ☐ Fixed Method
☐ Withdrawable Method(58Pin) ☐ Other Method

* Function optional: ☐ Closing latching electromagnet ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V

☐ Position latching electromagnet ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V

☐ Anti-pump relay

* Over current release: ☐ without over current release ☐ 1over current release ☐ 2over current release ☐ 3over current releaseStandard accessory: ☐ Energy-stroing handle(2pcs for each 5 breakers as standard offer) ☐ Rocking handle of chassis(2pcs for each 5 breakers as standard offer)

Special Request: _____

Signature of buyer _____ Date _____ / _____ / _____

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

Order Sheet

SecoVac 24kV Ordering check list

Project _____ Product _____

Order Quantity _____

Rated voltage: ☒ 24kV

Installation Mode: ☒ Withdrawable

Pole type	<input checked="" type="radio"/> Embedded Pole
Phase Distance	<input checked="" type="radio"/> 275mm
Rated current	<input type="radio"/> 630A <input type="radio"/> 1250A <input type="radio"/> 1600A <input type="radio"/> 2000A <input type="radio"/> 2500A <input type="radio"/> 3150A
Rated short circuit breaking current	<input type="radio"/> 25kA <input type="radio"/> 31.5kA

Remark: Configuration 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 truck
- Rated operation voltage for mechanism: ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V
- Rated voltage for energy storing motor: ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V
- Secondary wiring: ☐ withdrawable method(64Pin) ☐ Fixed Method
☐ Withdrawable method(58Pin) ☐ Other Method
- * Function optional: ☐ Closing latching electromagnet ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V
☐ Position latching electromagnet ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V
☐ Anti-pump relay
- * Over current release: ☐ without over current release ☐ 1over current release ☐ 2over current release ☐ 3over current release
- Standard accessory: ☐ Energy-stroing handle(2pcs for each 5 breakers as standard offer) ☐ Rocking handle of chassis(2pcs for each 5 breakers as standard offer)

Special Request: _____

Signature of buyer _____ Date _____ / _____ / _____

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

Order Sheet

SecoVac 40.5kV Ordering check list

Project _____

Product _____

Order Quantity _____

Rated voltage: ☒ 40.5kVInstallation Mode: ☐ Withdrawable

Pole type	<input checked="" type="radio"/> Embedded Pole
Phase Distance	<input checked="" type="radio"/> 275mm
Rated current	<input type="radio"/> 630A <input type="radio"/> 1250A <input type="radio"/> 1600A <input type="radio"/> 2000A <input type="radio"/> 2500A
Rated short circuit breaking current	<input type="radio"/> 25kA <input type="radio"/> 31.5kA

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

Earthing mode: ☒ Earthing with connector on the sides of truckRated operation voltage for mechanism: ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220VRated voltage for energy storing motor: ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V
 Secondary wiring: ☐ withdrawable method(64Pin) ☐ Fixed Method
☐ withdrawable method(58Pin) ☐ other method

 * Function optional: ☐ Closing latching electromagnet ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V
☐ Position latching electromagnet ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V
☐ Anti-pump relay

 * Over current release: ☐ without over current release ☐ 1over current release ☐ 2over current release ☐ 3over current release

 Standard accessory: ☐ Energy-stroing handle(2pcs for each 5 breakers as standard offer) ☐ Rocking handle of chassis(2pcs for each 5 breakers as standard offer)

Special Request: _____

Signature of buyer _____

Date _____ / _____ / _____

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

Order Sheet

SecoVac 40.5kV (VCB on truck) Ordering check list

Project _____ Product _____

Order Quantity _____

Rated voltage: ☒ 40.5kV

Installation Mode: ☐ Withdrawable

Pole type	<input checked="" type="radio"/> Embedded Pole
Phase Distance	<input checked="" type="radio"/> 300mm
Rated current	<input type="radio"/> 630A <input type="radio"/> 1250A <input type="radio"/> 1600A <input type="radio"/> 2000A <input type="radio"/> 2500A <input type="radio"/> 3150A
Rated short circuit breaking current	<input type="radio"/> 25kA <input type="radio"/> 31.5kA

Remark: Configuration 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

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

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

Secondary wiring: ☐ withdrawable method(64Pin) ☐ Other method

* Function optional: ☐ Closing latching electromagnet ☐ DC110V ☐ DC220V ☐ AC110V ☐ AC220V
☐ Anti-pump relay

* Over current release: ☐ without over current release ☐ 1over current release ☐ 2over current release ☐ 3over current release

Standard accessory: ☐ Energy-stroing handle(2pcs for each 5 breakers as standard offer) ☐ Rocking handle of chassis(2pcs for each 5 breakers as standard offer)

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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