



BGS-24

Dry air-insulated
Secondary switchgear rated up to 24kV

Catalogue
2025



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BGS-24 CCV

BGS-24, a versatile switchboard

BGS-24 is a medium voltage dry air-insulated switchboard up to 24kV, used in secondary distribution applications. It can be fitted with the following protection devices:

- Transformer protection
- Line protection

Its compactness, wide range of functions and ease of installation and extensibility, make it a versatile switchboard to fit many distribution applications such as: public distribution, industry, infrastructure or renewables.



BGS-24 in a MV substation

Electrically insulated using dry air

The high voltage conductive parts of the BGS-24 switchboard are placed in green insulating air (dry and clean air) .

The dry air is confined in a hermetically sealed stainless steel tank.

BGS-24 is insensitive to the outside environment and to any possible aggressions such as:

- Humidity
- Dust
- Pollution
- Dirt
- Harmful rodents

The use of dry air as an insulating gas, and the design of BGS-24, makes it one of the most compact environment friendly MV switchboards on the market.

Simple operation and maintenance

With a service life of 30 years for the main circuit without maintenance, the overall design of the range of BGS-24 switchboards guarantees simple and reliable use:

- Simplified maintenance of the functional units
- No air filling is required on site at installation nor during the service life of BGS-24
- Under normal operating conditions
- Long service life
- Interlocking to ensure the correct sequences of operations
- Can be used in substations with or without walk-in operation corridors
- Voltage presence indicator light
- Wide cable compartment to allow the installation of various types of cable, etc.



BGS-24 in renewable

Safety and innovation

BGS-24 has been designed for maximum safety of the operators and equipment in particular in case of internal arcing in the equipment:

- Safety valves at the rear bottom cable compartment and thus avoid gas overpressure
- Each functional compartment is independent completely
- The overall structure adopts a tank structure, with good sealing performance and strong compressive strength

Standards & certification

A major asset

Brunstock integrates with a manufacturing partner to produce BGS-24 and their role includes monitoring quality, environmental impact and employee safety to ensure compliance with standards. They utilise management systems to help achieve this. As an extra layer of scrutiny, Brunstock's representatives apply local knowledge to verify design and quality manufacturing, and may use their own management systems.

The manufacture of BGS-24 is certified under the following management systems:

- ISO 9001: 2015 quality
- ISO 45001: 2018 workplace health and safety
- ISO 14001: 2015 environment



Quality system certified

During manufacture, each BGS-24 functional unit is subject to systematic routine testing with the aim of checking the quality and conformity of the following features:

- Measuring of opening and closing speeds
- Dielectric test
- Testing of safety systems and interlocks
- Testing of low voltage components
- Conformity with drawings and diagrams

The results obtained are recorded and approved by the quality control department on each device's test certificate. This therefore guarantees product traceability.



Environment system certified

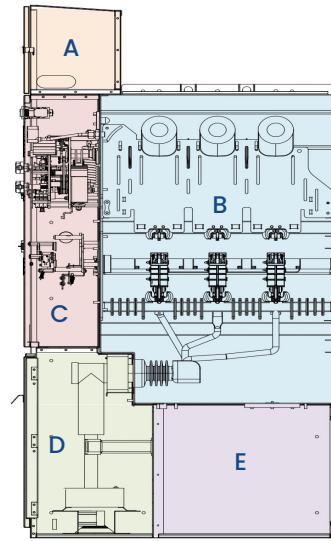
As part of the manufacturer's environmental policy, Brunstock equipment is managed under an environmental management system. BGS-24 has been designed with environmental protection in mind:

- All materials used, for instance gas tank and conductors, are identified, and easily separable for recycling
- Our production sites are certified to ISO 14001



Health and safety system certified

Workplace Health and Safety (WHS) bears the highest importance at Brunstock. The manufacture of BGS-24 includes controlling risks and making improvements in performance in compliance to ISO 45001: 2018. Brunstock supports the system's focus on eliminating or minimising risks to personnel and other interested parties who could be exposed to WHS hazards associated with the manufacture of BGS-24.



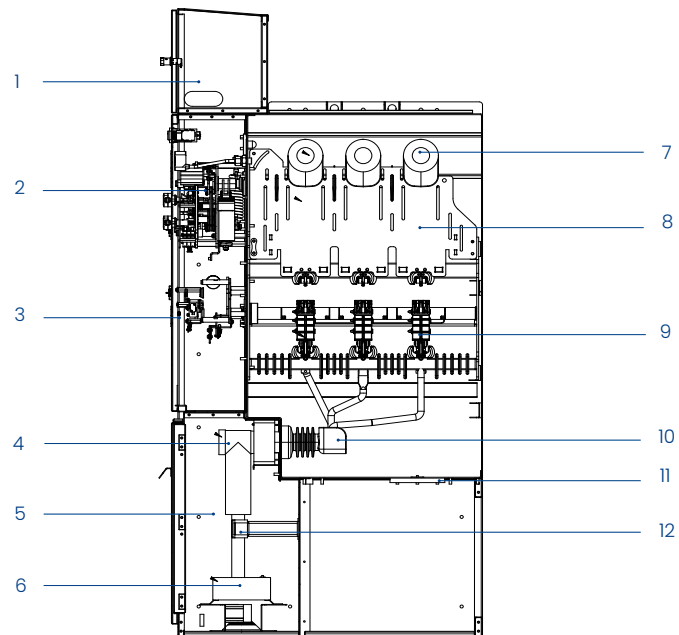
BGS-24 V switchgear

- A LV compartment
- B Lateral bus connection and gas tank
- C Three-position switch (TPS) and circuit-breaker (CB) mechanism compartment
- D Cable compartment
- E Arc vent compartment

Identification plate

The rating plate supplies information on the version, rated voltage, short-circuit current, rated current and components.

Example	BGS	-	24	-	20	-	630
Switchboard							
Rated voltage: 24kV							
Short-circuit current: 20kA							
Rated current: 630 A							



BGS-24 V standard structure

- | | |
|----------------------|----------------------------|
| 1 LV box | 7 Lateral extension busbar |
| 2 CB mechanism | 8 Gas tank-CB mechanism |
| 3 TPS mechanism | 9 Gas tank-TPS mechanism |
| 4 Cable termination | 10 Out-cone bushing |
| 5 Cable compartment | 11 Rupture disk |
| 6 Ring CT (optional) | 12 Cable clamp |



Operating conditions

- Ambient temperature: from -5°C to $+40^{\circ}\text{C}$ (*)
- Average value over 24 hours (max.): $+35^{\circ}\text{C}$
- Typical maximum altitude for installation above sea level is 1,000 m
However, much higher altitudes are possible on request
- Type of insulating gas: Dry clean air
- Rated pressure at $+20^{\circ}\text{C}$: 0.03 MPa

(*) Lower/Higher ambient temperature on request.

Protection index (IP)

- Main electrical circuits (gas tank): IP67
- Enclosure: IP4X
- Between compartments: IP2X
- Switchgear: IK10

Partition class and loss of service continuity category

- Partition Class: PM
- Loss of Service Continuity Category: LSC1

IAC (internal arc classification):

The metal enclosed switchgear may have different types of accessibility on the various sides of its enclosure.

To identify the purpose of different sides of the enclosure, the following code shall be used (according to IEC 62271-200 standard).

- A: restricted access to authorised personnel only
- F: access to the front side
- L: access to the lateral side
- R: access to the rear side

Internal Arc Classification

BGS-24 is a pressurized sealed-unit system that complies with IEC 62271-1.

Its tank is filled with dry air that is used as an insulating and breaking medium.

BGS-24 internal arc classification as per IEC 62271-200 is detailed in the table below. In the unlikely event of air overpressure, the dry air is discharged via safety valves away from the operator.

IEC standards

Our BGS-24 switchboards comply with the standards shown below:

Description	IEC standard	IEC classes
Switchboard	IEC 62271-200 IEC 62271-1	
Behaviour in the event of internal faults	IEC 62271-200	
Earthing switch	IEC 62271-102	E2
Disconnecter	IEC 62271-102	M2
Circuit-breaker	IEC 62271-100	C2, M2, E2
Current transformer	IEC 61869-2	
Voltage transformer	IEC 61869-3	
Voltage presence indicators	IEC 62271-206	
Voltage detection systems	IEC 61243-5	
Protection against accidental contact, foreign bodies and ingress of water	IEC 60529	



BGS-24

General introduction

- BGS-24 is a three-phase vacuum circuit-breaker in dry air-insulated metal-enclosed switchgear unit. Mainly used in power distribution systems such as renewable, small and medium generators, substations, high-rise buildings, industrial and mining enterprises, subways and electrified railways, to implement the control, protection and detection of power supply systems and loads. It is especially suitable for underground, high altitude, frozen soil, coastal, humid and other environments, densely populated areas and places with expensive construction area.
- The key technologies of product development and design, such as insulation, temperature rise, mechanical strength, sealing, arcing, etc., are all calculated by computer simulation to ensure the quality and reliability of product development.
- In order to ensure the stability and reliability of product manufacturing quality, the company has introduced imported three-dimensional five-axis robot welding equipment, helium quality general leak detector, lightning impact, X-ray detection, partial discharge tester, temperature rise, high and low temperature testing and other equipment.
- The company strictly organizes production according to ISO9000 documents and 6S management to ensure that the quality of the entire cabinet is monitored throughout the process.
- The high-voltage primary components of the product are enclosed in stainless steel chamber, and the main circuit is fully enclosed, fully insulated and maintenance-free.
- The product adopts dry air insulation and vacuum arc extinguishing breaking technology, and the service life of the vacuum circuit-breaker is up to 10,000 times.
- The product is designed with an independent arcing channel, and the arcing capacity of the whole cabinet: IAC-AFLR 20kA/1s.

Features

- Dry air insulation, vacuum interruption, environmentally friendly;
- No need to fill in dry air when on-site installation;
- Rated pressure for air filled is lower to 0.03MPa;
- With unique natural air cooling duct;
- Modular design, removeable gas tank and compartment;
- The main circuit is fully enclosed and insulated with IP67;
- The circuit-breaker is up to 630A, main busbar up to 630A and the rated breaking current 20kA;
- Main bus VT and arrester with isolation switch, easy for operation and maintenance;
- Compact size.



Advantages

Diversified solutions

- This SF6-free switchgear is an integral part of a green GIS solution
- Bus and line VT solution
- Load breaker switch solution
- Metering

Capability of development

- Self-developed the core components (circuit-breaker and three-position switch)

Compact size

- The height with standard LV box: 2100mm
- Width: 450mm/600mm
- Depth: 950mm

Positioning

Technically

- 24kV dry air gas insulated switchgear series

Market

- Utility, railway, photovoltaics, oil & gas, mining, etc;
- Africa, Asia Pacific, Middle East, Europe, etc.

Range of functions

Names	V	C	M	Pb
Size (W*D*H)	450*950*2100	450*950*2100	600*950*2100	600*950*2100
Functions	Circuit breaker	Load breaker switch	Metering	Busbar VT

BGS-24		
Rated voltage	kV	24
Rated power frequency insulation Imin	kV	65/79
Lightning impulse withstand voltage (peak)	kV	125/145
Rated frequency	Hz	50
Rated short-circuit breaking current (RMS)	kA	20
Rated peak withstand current	kA	54.6
Rated short-time withstand current (RMS)	kA	20
Duration of rated short-time withstand current	s	3
Rated current of main busbar	A	630
Rated current of branch busbar	A	630
Internal arc classification	kA/s	IAC A(FLR) 20/1
Mechanical endurance of VCB	times	10,000
Mechanical endurance of three-position switch	times	3,000
Rated ex-factory filling pressure (absolute at 20 °C)	MPa	0.03
Alarm pressure(absolute at 20 °C)	MPa	0.01
Minimum pressure(absolute at 20 °C)	MPa	0.02
Type of insulating gas		Dry Air
Moisture content (20°C)	ppm	≤300
Volume (WDXH)*	mm	450x950x2100
IP class	Gas tank (the primary circuit)	IP67
	Enclosure	IP4X
	Between compartments	IP2X

Notes:

* The standard height of the LV box is 310mm included. If more instruments, the height of the secondary room can be increased appropriately through technical clarification.

BGS-24 Vacuum circuit-breaker (VCB)

Rated voltage	kV	24
Rated power frequency insulation Imin	kV	65/79
Lightning impulse withstand voltage (peak)	kV	125/145
Rated frequency	Hz	50
Rated short-circuit breaking current (RMS)	kA	20
Rated peak withstand current	kA	54.6
Rated short-time withstand current (RMS)	kA	20
Duration of rated short-time withstand current	s	3
CB electrical endurance	/	E2
100% short-circuit breaking times	times	30
Rated cable-charging current	A	50
CB mechanical endurance	times	10,000
Closing time	ms	30-70 @ Rated voltage
Opening time	ms	18-45 @ Rated voltage
Rated ex-factory filling pressure (relative)	MPa	0.03
Contact opening distance	mm	19±1
Over travel	mm	4±1
Rated operating sequence	/	O-0.3s-CO-180s-CO

BGS-24 Three-position switch (TPS)

Rated voltage	kV	24
Rated power frequency insulation Imin	kV	65/79
Lightning impulse withstand voltage (peak)	kV	125/145
Rated frequency	Hz	50
Rated short-time withstand current (RMS)	kA	20
Rated peak withstand current	kA	54.6
Duration of rated short-time withstand current	s	3
Distance between dynamic and static contacts of DS	mm	60±2
Distance between dynamic and static contacts of ES	mm	60±2
Three-phase closing asynchrony	mm	≤3
Three-phase opening asynchrony	mm	≤3
The circuit resistance between the dynamic and static contacts of the main circuit	μΩ	≤30
Manual operating torque	N. M	≤200
Mechanical endurance	times	5,000

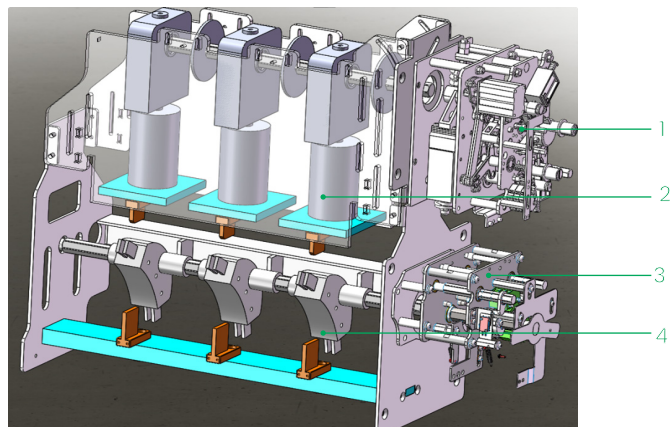
Vacuum circuit-breaker

Vacuum breaking technology is adopted for the circuit-breaker on BGS-24. The maximum rated current is 630A, the rated short-time withstand current is 20kA (3s), the electrical life is E2 (30 times), the mechanical life is M2 (10000 times). The three phases of A/B/C are horizontally arranged from left to right.

After the installation and commissioning of the cabinet, it is fixed in the "cabinet" after the overall installation. The specific structure is shown as below.

Three-position switch

The three-position switch on the BGS-24 combines the functions of an isolating switch and an earthing switch. It does not have the ability to make and break, and the maximum rated circuit is 630A. It can only perform "close and open" operations when there is no current. The specific structure can be shown as below.



The structure of VCB and TPS

- | | |
|---------------------------|----------------------------|
| 1. CB operating mechanism | 3. TPS operating mechanism |
| 2. VCB | 4. TPS |

Function

- Rated opening and closing current;
- Short-circuit breaking and making operations;
- Corporate with TPS to achieve grounding function.

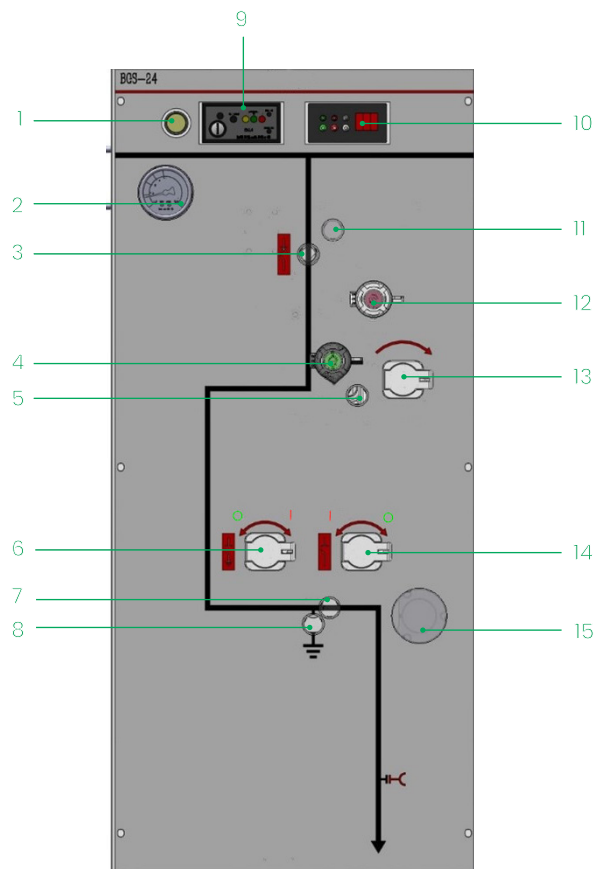
The TPS can only be operated the earthing switch when there is no current in the circuit, the earthing switch can only be closed once circuit-breaker opened.

The three-phase pole of the CB is horizontally placed in the CB gas tank, the operating mechanism is located outside for easy maintenance. The mechanism and the pole are connected by movable sealing bellows.

User interface description

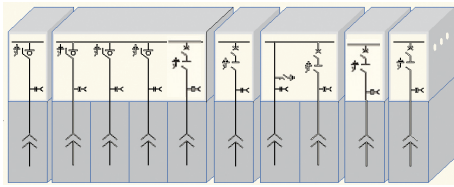
Thanks to its clear mimic diagram, the user interface makes it easy and safe to operate BGS-24. Each switching device is equipped with an access point for the control lever and an indicator of the mechanical position.

The switch-disconnectors and vacuum circuit-breakers can be equipped, as an option, by a motorised control mechanism.



Interface of V

- | | |
|--|---|
| 1. CB motorised push button | 8. Earthing switch position indicator |
| 2. Manometer | 9. Protection relay |
| 3. Circuit-breaker position indicator | 10. Voltage presence indicating system |
| 4. Circuit-breaker manual close operation button | 11. Circuit-breaker counter |
| 5. Spring charge indicator | 12. Circuit-breaker manual operation button |
| 6. Earthing switch operation hole | 13. Circuit-breaker operation hole |
| 7. Disconnecter position indicator | 14. Disconnecter operation hole |
| 8. Earthing switch position indicator | 15. Observation window |

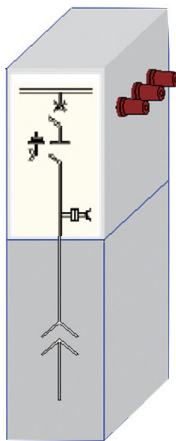


Extensibility of BGS-24

- BGS-24 offers extensible configurations for secondary distribution applications;
- The connection of each functional unit allows for multiple combinations depending on the installation requirements.

BGS-24 extensible permits the connection of additional units on the left or right-hand side, thereby offering greater flexibility in the choice and positioning of the medium voltage switchboard functions.

- The installation and in-line connection of BGS-24 extensible does not require any handling of gas;
- Maximum current: 630A.



Erection and assembly

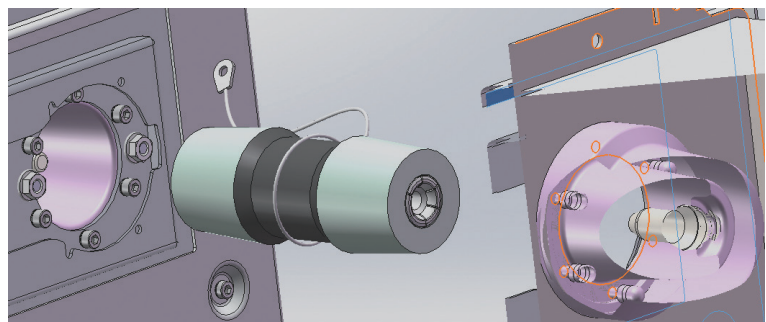
The extension is a very simple process thanks to:

- The extension device used to connect the busbars of two cubicles. Variations in positioning are compensated by fixed, spherical contacts and mobile couplings that can be adjusted axially and radially;
- Highly secure dielectric seals made with silicone insulating conical connectors adapted to the electrical voltage;

The assembly of the insulating connectors is maintained by a mechanical force generated by:

- Integrated guiding pins for the correct alignment of the cubicles
- An assembly by bolts secured by mechanical stops

During the assembly of an extension cubicle, an additional space of at least 450 mm is necessary to allow for handling.



Extension device for the in-line connection of the BGS-24 extensible

BGS-24 switchboard is equipped with plug-in bushings:



C / V : plug-in bushing
NF EN 50181, with C type connection
(Ir: 630 A; Ø M16 mm)

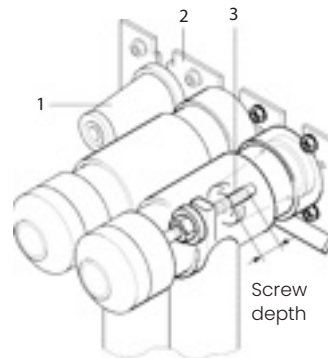
Cable compartment

The cables connection compartment has been designed to accept connection systems that are:

- Completely insulated;
- In metallic housing;
- Partially insulated.

Cable support mountings are adjustable horizontally and vertically to enable installation of various cable systems. The cable mountings are equipped with either round or long holes for standard cable terminals. Additional support structures can be supplied for the installation of two cables per phase cable plug-in connections or surge arresters.

Type C (630 A)

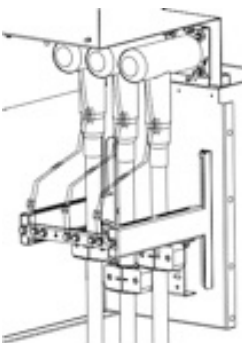


1. Cross member – Male
2. Support plate
3. Screw contact

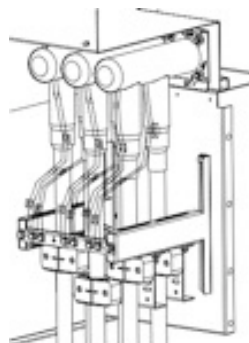
Type of connection

TGS cable compartment is spacious and allows for various connections (cf. Selection of cables):

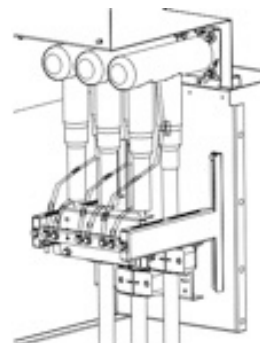
- Single cable per phase;
- Two cables per phase;
- Single cable per phase + surge arresters;
- A triple cable per phase connection is also available (please consult us);
- No cable – bushing protected by insulating plug.



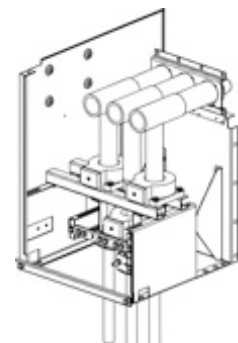
Single cable per phase connection



Two cables per phase (only available in the TGS 1,432 mm height version)



Cables & surge arresters



CB cable compartment with metering CT cores



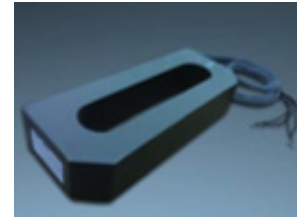
Three-phase integrated CT

Current transformer

BGS-24 adopts straight-through type CTs, which can go through incoming/outgoing single or multiple cables and the main busbar. The external cone cable is used to connect the CT on the BGS-24. The three-phase integrated CT can be directly fixed on the outer cone sleeve. The primary current of current transformer is 100 to 1250A, and the secondary current is 1A or 5A. The specific secondary coil quantity, accuracy and capacity of CT shall be determined when ordering.



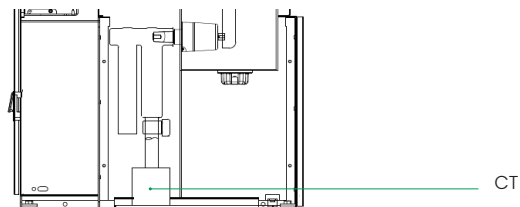
Ring CT (for single cable)



Ring CT (for double cable)

CT installation in the cable side

The cable-side circuit transformer passes through the incoming/outgoing cable and is fixed on the beam on the cable compartment, as shown as below.



VT solution

Brunstock provides VT solution:

- A block VT (24 kV)
- Plug for VT

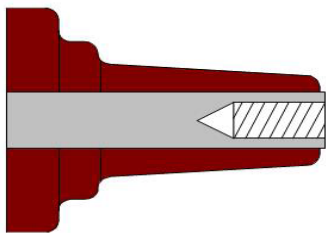
Electrical parameters of voltage transformer	
Type	VSSIF4-24
Rated voltage ratio	24/√3/0.1/√3/0.1/3
Accuracy class combination	0.2/3P, 0.5/3P, 1/3P, 3/3P
Rated secondary output (VA)	15/15, 25/100
Limit (VA)	300



VT with fuse



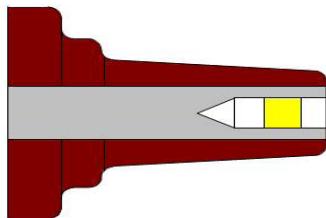
VT without fuse



BGS-24 is equipped with cable bushings which comply with EN 50181 and IEC 60137 for termination of cables. The bushings fulfil the requirements of DIN47636T1. The following cable bushings are used:

Interface C with M16 x 2 metric threads 400 series, In = 630 A
Standard on all modules and for side connection

Interface B with plug 400 series, In = 400 A
Optional for all modules.
The yellow area indicates the silver coated contact spring.



The installation instructions from the manufacturer of cable terminations must be followed. Be sure to lubricate the bushings thoroughly with the silicone supplied.

Important:
Where cables are not connected, the earthing switch must be locked in closed position or the bushings must be fitted with dead end receptacles before the unit is energised.

Cable terminations

All bushings are protected by cable compartment cover. The drawings below show typical arrangements with cable connectors.

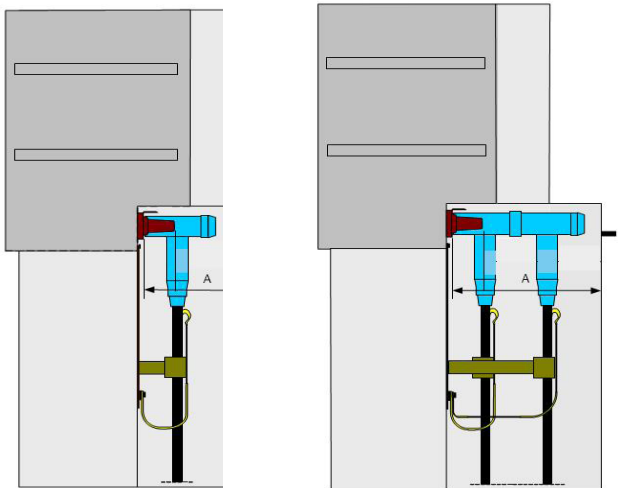
The table below the drawings shows the distance A in millimetre from cable bushing to the inner part of cable compartment cover.



Inner cone cable connector



Outer cone cable connector





	Distance A
Standard	350 mm
Double cables	570 mm
Arc proof cable covers	331 mm

Surge arrester

BGS-24 surge arrester can be divided into two types according to the cable sockets, one with outer cone sleeve and the other with inner cone cable socket, plug in connection with the cubicle, and match with the 2# inner cone socket; The surge arresters of main busbar and line side are placed on the bottom of the cubicle.

The specific technical parameters of arresters shall be determined when ordering.

Item	Inner cone cable terminal	Outercone cable terminal
Type		
Rated voltage (kV)	24/30	

Interlock

Electrical interlock

- Electrical interlock can be achieved by intelligent control and protection unit's contact detection and logic programming for position state of TPS and CB, and it can be achieved by microswitch as well;
- The electrical interlock can be worked only when secondary power supply is powered;
- Electromagnetic lock is optional for ES.

Mechanical interlock

- Mechanical interlock can only be achieved by operating the main shaft with TPS manually under certain conditions;
- When circuit-breaker is closing, the manual operation cover of DS is interlocked. Only after the CB is opened, the cover can be freely opened, then the handle can be inserted into the hole for DS operation. whenever opened the cover manually, the CB cannot be operated electrically or mechanically;
- Key lock and padlock is optional for CB/DS/ES upon request.

Interlocking of the functional units

During the development of BGS-24, emphasis was placed on personnel safety and the reliability of the switchgear in operation. An interlocking system prevents any incorrect use. Thus, the operating levers can only be inserted if the service status permits it. Access to the cables compartment is only possible if the appropriate outgoing feeder is connected to earth.

These ring main units are equipped with the following interlocks:

Functional unit with vacuum circuit breaker, disconnecter and earthing switch

Interrupting mechanism	Position	Interlock status...						Cable compartment panel
		DS		ES		CB		
		Open	Closed	Open	Closed	Open	Closed	
Disconnecter (DS)	Open	–	–	Unlocked	Unlocked	Unlocked	Unlocked	–
	Closed	–	–	Locked	–	Unlocked	Unlocked	–
Earthing switch (ES)	Open	Unlocked	Unlocked	–	–	Unlocked	Unlocked	Locked
	Closed	Locked	–	–	–	Locked	–	Unlocked
Circuit breaker (CB)	Open	■ Unlocked if ES open ■ Locked if ES closed	Unlocked	■ Unlocked if DS open ■ Locked if DS closed	Unlocked	–	–	–
	Closed	Locked	Locked	Locked	Locked	–	–	–



Packaging

For road and rail transport:

BGS-24 switchboard is packaged under protective sheeting. It is delivered fixed on to a wooden pallet by two plastic tapes.

- For maritime transport:

BGS-24 is packaged in a heat-sealed cover with bags of desiccant, then enclosed in a wooden case with a solid leak tight bottom (including transport by container).

- For air transport:

BGS-24 switchboard is packaged in a wooden boxes (crates) with solid walls and a protective cover (dust cover).

Handling

The BGS-24 must be transported vertically:

- When moving using a forklift:

Only move the device on a pallet.

- When moving without a pallet:

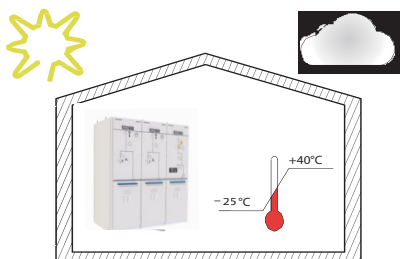
A lifting sling must be hooked on to the switchgear's lifting rings. The angle with the lifting sling must be at least 45°.

- When transporting on pallet:

Don't tilt the switchgear. Respect the centre of gravity markings.

- When transporting with slings:

Use the two lifting rings.



Storage

BGS-24 must be packaged depending on the requirements for its planned storage duration. BGS-24 must be preserved intact in its factory origin packaging.

The storage area must not have any sharp and important changes in temperature. Consult us for any particular storage condition.



When it comes to your electrical distribution installation, Brunstock representatives can help you:

- Increase productivity, reliability and safety
- Mitigate risk and limit downtime
- Keep equipment up to date and extend lifespan
- Cut cost and increase savings
- Improve your return on investment

Contact us for more information

sales@brunstock.com

Plan

Brunstock representatives help you to plan the full design and execution of your solution, to secure your process and optimise your time. With training provided by Brunstock, our reps usually offer the following:

- **Technical feasibility studies:** Accompany you to design a solution specifically for the given environment
- **Preliminary design:** Accelerate turn-around time to come to a final solution design

Install

Brunstock representatives will help you to install efficient, reliable and safe solutions based on your plans.

- **Project Management:** Designed to help you complete your projects on time and within budget
- **Commissioning:** Ensures your actual performance versus design, through on-site testing, commissioning tools and procedures.

Operate

Brunstock reps help you maximise your installation uptime and control your capital expenditure through their services. Please ask them for specific details about their:

- **Advantage service plans:** Customised services plans which cover preventive, predictive and corrective maintenance
- **On-site maintenance services:** Extensive knowledge and experience in electrical distribution maintenance
- **Spare parts management:** Brunstock reps are able to ensure spare parts availability and can help you optimise the maintenance budget for your spare parts
- **Technical training:** To build up necessary skills and competencies. In order to properly operate your installations in safety.

Optimise

Brunstock reps propose recommendations for improved safety, availability, reliability and quality.

- **Electrical Assessment:** Define improvement and risk management program.

Frequency of maintenance intervention

Brunstock equipment manufacturers recommend a schedule for maintenance activities to extend Electrical Distribution equipment performance over time. Further information is available in the product manual and can be discussed with your Brunstock representative.



At the end of the BGS-24 service life

The dismantling and disassembly of BGS-24 is possible at the end of its service life. The separation of the elements making up the switchgear will be made:

- By disconnecting the mechanical connections
- By dismantling, breaking or shearing the connections.

To guarantee efficient and ecological sorting and destruction of the materials, all plastic components have been identified. Your Brunstock representative will provide a description of the materials to you, their customer, along with information on the best valorisation process that recycling companies in your local area may need.

End of service life processing

Brunstock can support you in your BGS-24 end of service life processing approach.

Eliminate hazardous gas recovery

Due to the use of dry air, BGS-24 has no need for a process of SF6 gas recovery.

Composition of materials and valorisation at end of service life

After disassembly or dismantling, the recovered elements must be forwarded for treatment in the following manner:

Waste processing

Type of waste	Destination	Recommended processing
Steel & stainless steel	Local recovery agent	Shredding, sorting and recycling
Aluminum alloy	Local recovery agent	Shredding, sorting and recycling
Non-ferrous metals	Local recovery agent	Shredding, sorting and recycling
Epoxy resin	Cement plant	Revalorisation at a lower added value
Thermoplastics	Local recovery agent	Incineration
Molecular sieve	Authorised network	Elimination
Soiled protective equipment	Authorised network	Incineration
Cables	Local recovery agent	Separation of sheathing and conductors

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