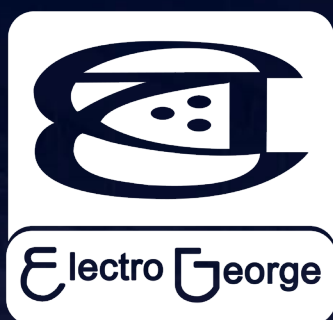


40th
Anniversary



SIVACON S8

Your safe, Flexible, Cost efficient
Low Voltage Power Distribution Board



Technology
Partner

SIEMENS

About Us

With more than four decades of expertise, Electro George stands out as a prominent supplier of high-quality electrical products. Since our establishment in 1985 and our recent acquisition by BICC Cables in 2023, EG is proudly a Technology Partner Siemens-licensed products such as (SIMOPRIME 17.5&24kV, 8DJH, SI Board & SIVACON), EG also introduced the (EGBOX-Plus, MOD-EG). Electro George's global mindset and commitment to the "Power of Experience".

Mission

Our mission is to capitalize on our extensive experience and technical prowess to deliver outstanding low and medium voltage panels, setting the industry standard for quality, innovation, and customer satisfaction while championing a greener, more efficient future. We aspire to be a leading switchgear manufacturer, offering a comprehensive range of internationally acclaimed products, deeply understanding customer needs, and expanding our regional market presence through strategic partnerships with global leaders.

Vision

Driving the future of the electrical industry through the paralleled experience and cutting-edge technology.

The SIVACON S8

low-voltage power distribution switchboard sets new standards failproof safety & service. In conformance to the IEC 61439- 1&2, SIVACON S8 guarantees high performance, maximum safety and compact modularity. These switchboards help industries and buildings significantly reduce investment costs and space.



Conforming to standards: systematic power distribution

Conforming to standards: IEC 61439

SIVACON S8 low-voltage power distribution board, customers are always on the safe side: It is design-verified according to the IEC 61439-1/-2 standard.

In addition, it disposes of the shipping approvals according to LR, DNV-GL and ABS.

Benefits

- Emphasis on maximum personal and plant safety
- Flexible layout thanks to a modular concept and wide variety of parts
- Efficient implementation of technologically sophisticated solutions

Safe down to the last detail

The SIVACON S8 low-voltage power distribution board ensures a high level of personal and plant safety. Continuous testing to IEC 61641 and VDE 0660 Part 500-2 guarantees safety in the event of an arcing fault. Many wellthought-out details, including a reduced use of plastic parts and insulated main busbars, guarantee maximum safety and plant availability, resulting in low liability risk.

Flexible and adaptable

Thanks to its modular concept and wide variety of components, the SIVACON S8 low-voltage power distribution board can meet all individual requirements. For instance, the profile bar or flat copper design of the vertical section busbars allows for tap-offs in the smallest of grids. The switching device holders are also modular, with a graduated depth.



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Features

1. Variable busbar positions at the top up to 6,300 A
2. Variable busbar position rear up to 7,000 A (top and/or bottom)
3. Plug-in busbar system with test finger safety, cover (IP 20B) for fast and easy replacement of fuse switch disconnectors
4. Optimal connection conditions in busbar connection compartment
5. The multi-profile bar allows for the simple assembly of modular installation devices
6. Boards for reactive power compensation with design verification according to IEC 61439 reduce transmission losses
7. Overview of power distribution, thanks to a standardized labeling system for sections and feeders
8. A modern look with design elements like the side panel and optionally extendable base



7KM PAC measuring devices	5SY MCBs, 5SM3 RCCBs, 5SU RCBs	NEOZED, DIAZED, NH fuse systems
Precise and reliable recording of energy values for supply, electric feeders, and individual loads	Comprehensive protection of people and plants against damage through fire, electric shock, lightning, or overvoltage	Safe and rapid switch-off to protect against overloads and short circuits
Power quality analysis	Comprehensive standardized accessories Functional design	Comprehensive range of products for all applications
Simple connection to higher-level energy management systems: transparency of power flows as well as the recording of system status and network quality	Connection to management systems	

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system overview

	Circuit breaker design	Universal mounting system	Fixed-mounted design
Mounting design	Fixed-mounted design, with-drawable	Fixed-mounted design with front covers	Fixed-mounted design with compartment doors, plug-in
Functions	Supply, outgoing feeder, coupling	Cable feeders	Cable feeders
Rated values	Up to 6,300 A	Up to 630 A	Up to 630 A
Connection position	Front or rear	Front or rear	Front or rear
Cubicle width (mm)	400, 600, 800, 1,000, 1,400	1,000, 1,200	600, 1,000, 1,200
Internal separation	Form 1, 2b, 3a, 4b, 4 type 7 (BS)	Form 1, 2b, 3b, 4a, 4b	Form 3b, 4a, 4b, 4 type 7 (BS)
Busbar position	Top/rear	Top/rear	Top/rear



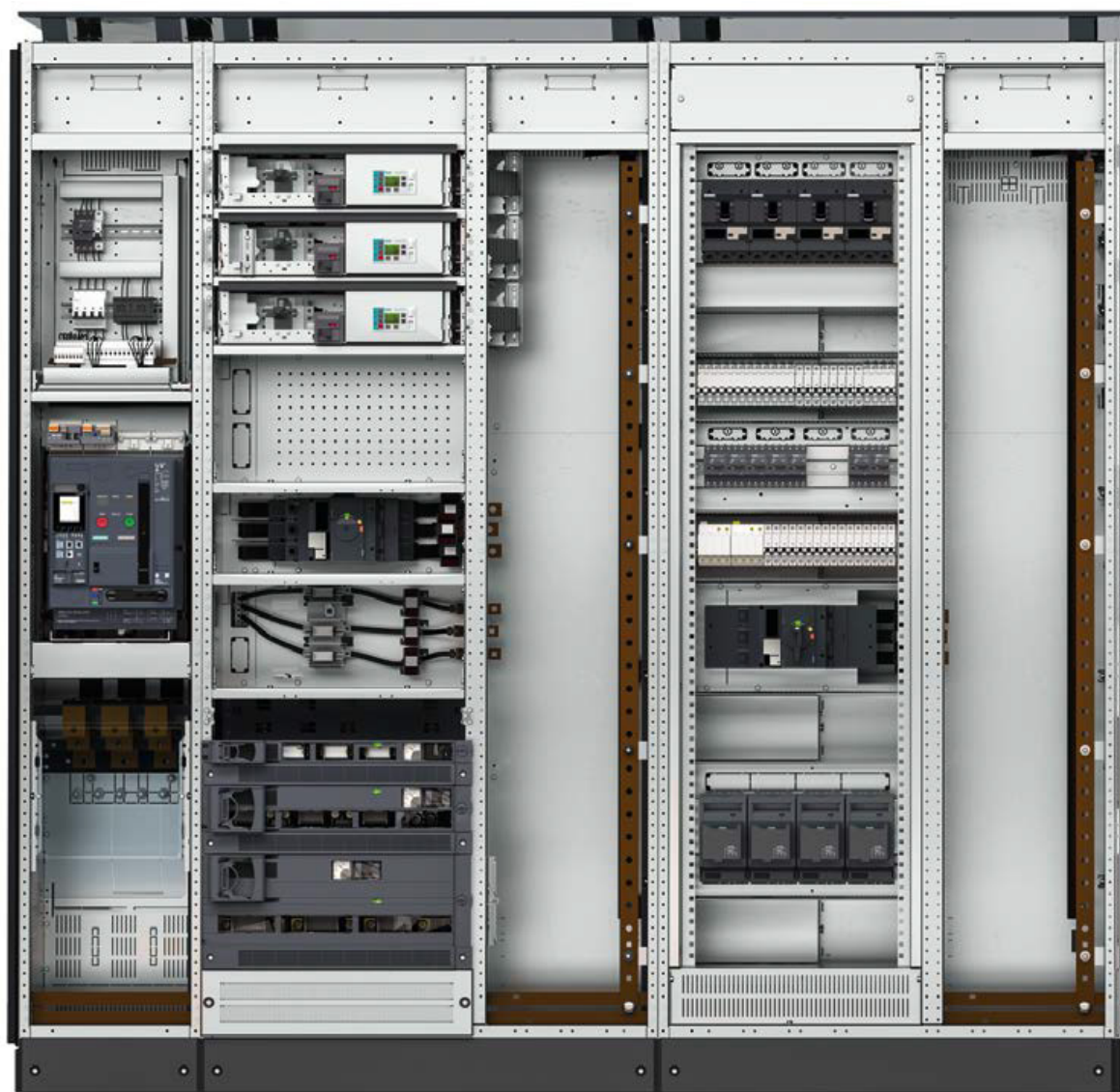
In-line design, plug-in	In-line design, fixed-mounted	Reactive power compensation
Plug-in	Fixed-mounted design	Fixed-mounted design
Cable feeders	Cable feeders	Central reactive power compensation
Up to 630 A	Up to 630 A	Unchoked up to 600 kvar, choked up to 500 kvar
Front	Front	Front
1,000, 1,200	600, 800, 1,000	800
Form 3b, 4b	Form 1, 2b	Form 1, 2b
Top/rear	Top/rear	Top/rear



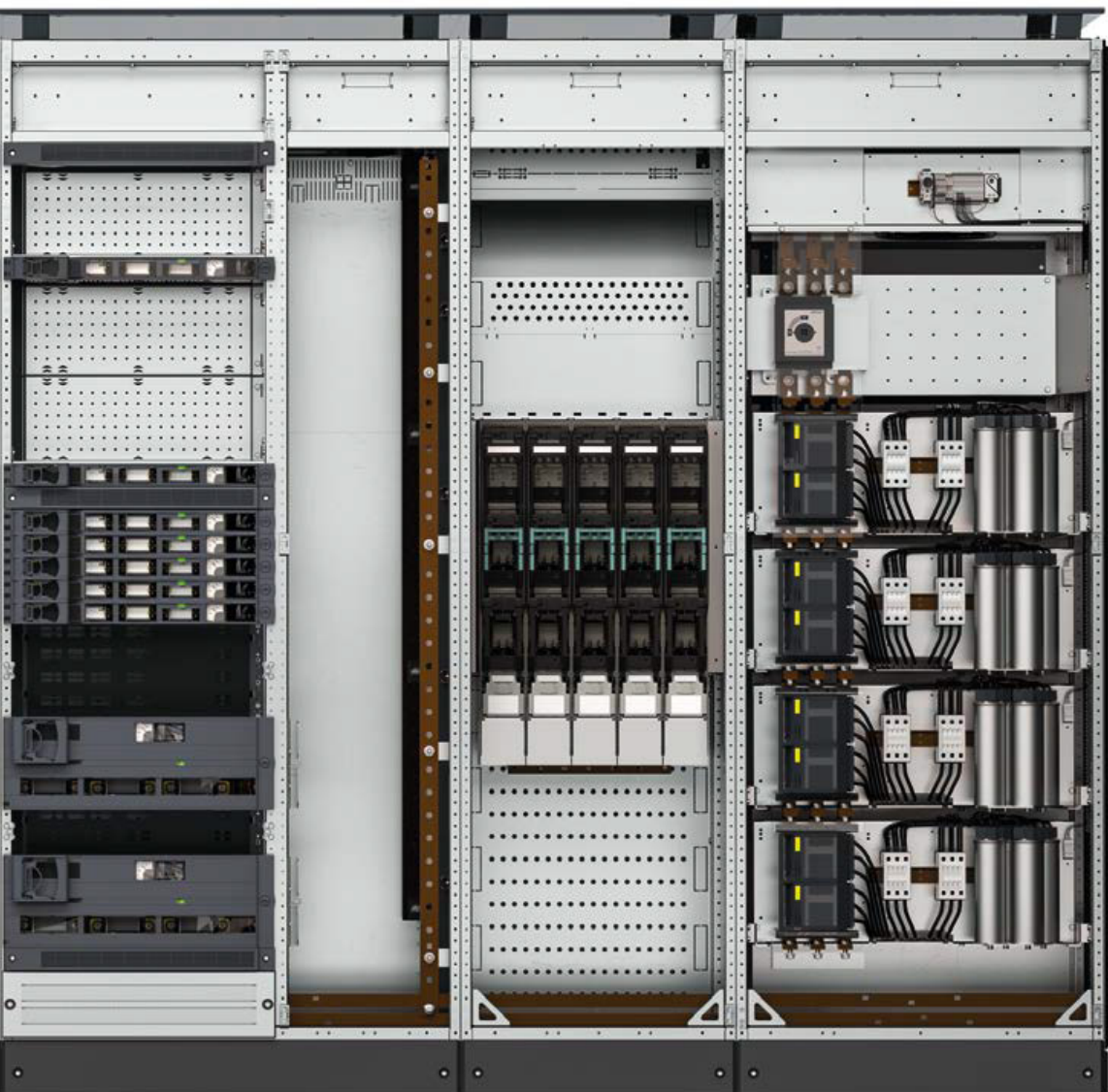
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simple integration of SENTRON protection, switching, measuring and monitoring devices for low-voltage power distribution

	3WA air circuit breakers	3VA molded case circuit breakers
Function	People and plants protected against overload and short circuit	High level of personal and plant safety • Integrated measuring functions
Special features	Numerous sizes permit flexible use • Fixed-mounted and with drawable designs for fast and easy maintenance • Comprehensive accessories	High breaking capacity with compact design • Superior selectivity properties • Comprehensive accessories for flexible function expansions
Communication capability	Early fault detection thanks to connection to higher-level control systems	Supports all common communication options: transparency of switching states and energy flows



3NJ4 fuse switch disconnectors	3NP1 fuse switch disconnectors	3NJ6 switch disconnectors with fuses
Load switching and disconnecting in a single system	Reliably protect people and plants	Reliably protect people and plants
Fast fuse tripping characteristic to prevent damage to plants and machines • Wide range of connection options	Compact design requires very little space • Fast, safe modulation • Switching position indicator and fuse monitoring: integrated line monitoring to ensure plant availability	Compact design requires very little space • Easy to replace in-line disconnectors • High switching capacity
Collection of energy data via SEM3 multichannel current measuring system		



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8 good arguments for safety

The SIVACON S8 low-voltage power distribution board ensures a high level of personal and plant safety – at all times and everywhere.

1

- Design verification by verification test in accordance with IEC 61439-1/-2
- Design-verified connection to the SIVACON 8PS busbar trunking system

2

- High level of personal safety thanks to
- roof plate with pressure relief

3

Comprehensive certifications

- High degree of test coverage
- Certifications for use on ships and offshore platforms
- Earthquake upgrade

4

The patented locking system or simple or central locking keeps doors closed even in the event of an arcing fault

5

- Safety in the event of an arcing fault, thanks to testing in accordance with IEC 61641 and VDE 0660 Part 500-2:** restriction of the effects of the arcing fault
- Within the power distribution board
 - To a section
 - To a compartment

6

An **arcing fault barrier** restricts the effects to one section when an arcing fault occurs

7

The **insulated main busbars** prevent the occurrence of arcing

8

Safe housing

- Frame made from stable sheet-steel profiles
- Sendzimir-galvanized surfaces on frame components, bases, rear panels, and floor plates

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8 good arguments for flexibility

Thanks to its modular concept and wide variety of parts, SIVACON S8 can meet the most demanding requirements and satisfy all individual needs.

1

A variety of connection options via vertical section busbars:
flexible layout and optional expansions

2

Supply unit and feeder

- Via cable or SIVACON 8PS busbar trunking system from 630 to 6,300 A
- From the top or bottom
- Aluminum or copper busbar trunking system

3

The section can be installed –
either single- or doublefronted –
together with a main busbar system
or back-to-back with a **separate main busbar system**

4

The patented locking system
or simple or central locking keeps doors
closed even in the event of an arcing fault

5

**High level of flexibility thanks to innovative
modular technology:**

- Different installation designs can be combined in one section
- Functional units are easy to exchange or add

6

The functional compartments can be
divided as required with **add-on modules**

7

Depending on requirements, different degrees of
protection can be implemented with the roof plate –
ventilated or non-ventilated

8

The **universal door hinge** allows the
hinge side to be easily changed.

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8 good arguments for efficiency

The SIVACON S8 low-voltage power distribution board permits the efficient implementation of technologically sophisticated solutions. The proof: Over 404,000 switching boards have already been installed in a wide variety of applications by SIVACON Technology Partners

1

Economical design

- Circuit breaker section provides enough space for up to three circuit breakers
- Flexible installation design: fixed-mounted or withdrawable design for easy maintenance

2

Efficient, flexible operation

- High packing density with up to 35 outgoing feeders per section
- Fast exchange under operating conditions

3

Reduced service time thanks to maintenance-free section connections

4

The **patented ventilation slots**

reduce maintenance effort

- Cleaning is possible with the door closed and from the outside
- Low repair costs

5

The **patented connection terminals**

are safe, flexible, and easy to connect – during installation and in the event of subsequent changes

6

An **arcing fault barrier** restricts the effects to one section when an arcing fault occurs

7

The **SIMARIS software tools** save time throughout the process: from planning to configuration all the way to plant documentation

8

The innovative, communication-capable SENTRON components are **easy to integrate**

- System status and energy flows are made transparent
- For energy-efficient plant operation

