

Safety Embedded in Supreme Design:
The Power Distribution Board, that sets new standards.



SIEMENS

Everything. Perfect. With Low-Voltage Power Distribution by Siemens.



SIVACON S4 – the attractive power distribution board: **design reinvented.**

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Maximum safety and an appealing design are now optimally combined to form an efficient solution: with SIVACON S4, the new switchgear generation for a consistent and simple power distribution in functional and industrial buildings up to 4,000 A.

As follow-up product of the proven SIKUS systems, SIVACON S4 offers a comprehensive pallet of advantages. In addition to manifold features for the improvement of personal and plant safety, the control cabinets' new design opens up completely new application areas and moreover offers particularly attractive views. See for yourself.

SIVACON S4 is part of the comprehensive SIVACON product range, which covers all aspects of power distribution: from the switchgear to the busbar trunking system. The integration in Totally Integrated Power assures full consistency in terms of planning and configuration.

*Customized for applications in
functional and industrial buildings up to 4,000 A:
the new SIVACON S4 power distribution board.*





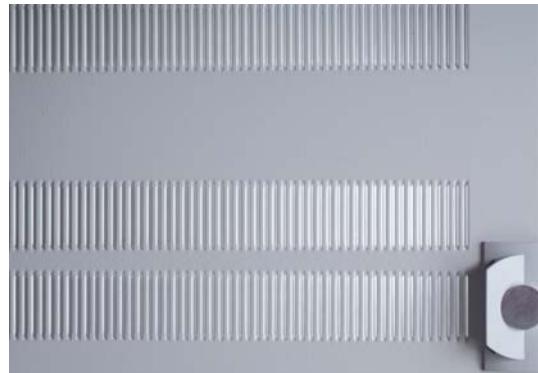
Ergonomic concept, consistent advantages: a new design for new possibilities.

The architecture in functional and industrial buildings is in a phase of transition. Control cabinets are no longer installed in the cellar, but increasingly taken to the top floors. This places new requirements upon design. How attractive an efficient power distribution can look is proven by the new SIVACON S4 power distribution system: It represents industrial design in its supreme form.

In addition, the new design elements exceed mere optical attractiveness by far: The new design of the ventilation system, for example, facilitates improved degrees of efficiency as well as eased maintenance. Moreover, the innovative and appealing locking system serves as the basis for maximum ergonomic operation. The SIVACON S4 system is rounded off by a shapely glass door and a labelling system, which is harmoniously integrated in the design concept. The system's distinctive design elements offer interesting possibilities of accentuation within the scope of interior architecture.



*Locking system and
ventilation system*





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Safety redefined.

Consistent protection, maximum benefits: new features for enhanced safety.

As type-tested switchgear, SIVACON S4 stands for maximum reliability and a high degree of safety. High-quality, perfectly matched switching devices facilitate an easy integration in the building control technology concept thanks to the system's outstanding feature: built-in intelligence. During operation, an efficient ventilation system prevents heat accumulation and heat pockets, thus assuring long-term system availability. A fast and easy access to the devices for setting purposes is facilitated through doors with central locking, swivel frames and quick-release locks. Thanks to the enormously powerful locking system, maximum personal safety is even guaranteed in fault cases.



In case of system conversions, the doors' universal hinges facilitate a very easy exchange of the hinge sides: for a particularly fast and effective adaptation to the escape route plan. Not least, also the mature concept of the SIVACON S4 systems' internal separation offers genuine added value as the system safety can be accurately matched to the user's requirements. Possible system failures, e.g. caused by the accidental touching of live parts, are prevented.



Swivel frames and masking frames facilitate an easy access to the devices.

New generation, new arguments: SIVACON S4 advantages at a glance.

- Maximum system safety – thanks to type-tested system modules (TTA)
- Maximum personal safety thanks to powerful locking system
- Flexible adaptation of the internal separation to individual requirements
- Easy subsequent door hinge changes
- Fast device access for setting purposes
- Ventilation system with a high degree of efficiency and maintenance advantages
- High-quality industrial design for a custom-fit integration in modern room concepts



The central locking system guarantees maximum safety as it assures a safe closure of all fixed points of the doors.



The mature concept of internal separation facilitates an individual adaptation to the user's requirements.



Efficiency redeveloped.

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Individual system layout, improved switching efficiency: new features for improved profitability.

Ever more consumers and increasingly complex processes: To be able to satisfy the daily requirements placed upon power distribution in functional and industrial buildings, flexible solutions are continuously gaining importance.

For this purpose, we support control cabinet manufacturers in the fields of planning, configuration and realisation. Our joint basis: a perfectly matched modular system which, in addition to a selection catalog, configuration software, mounting manual, operating instructions and technical support, accommodates a power distribution system that sets new standards in terms of design, safety and efficiency. For you, this implies a multitude of advantages, which will generate considerable cost savings.

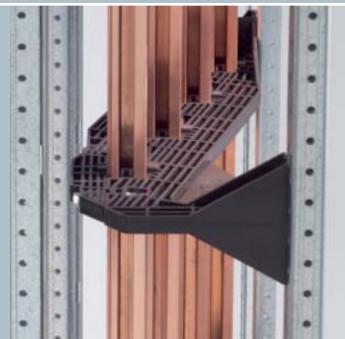
Comprehensively tested, safely distributed: type-tested switchgear combination.

SIVACON S4, e.g. with SENTRON 3WL or 3VL circuit-breakers, are type-tested in accordance with IEC 60439-1 or EN 60439 Part 1.

The type test serves as proof regarding:

- Compliance with limit overtemperature
- Short-circuit strength
- Insulation strength
- PE conductor efficiency
- Clearances and creepage distances
- Mechanical function
- IP degree of protection

Prerequisite: The system must be constructed in accordance with the EN 60439 Part 1 standard and according to the instructions of the system supplier.



Graded busbar trunking system



Installation kit for moulded-case circuit-breakers

New technology, proven standards: efficiency in detail.

- Expanded portfolio of type-tested switchgear combinations (TTA)
- Flexible modular system with low component variance
- Room-optimised installation kits for compact device assembly
- Easy realisation of the required internal separation with standard components
- Variable busbar systems for the easy and efficient realisation of various requirements
- Graded vertical busbar system for easy device connection without boring
- Captive quick-release lock for easy frame mounting
- Efficient design thanks to the combination of various installation technologies

Technical data

Standards and regulations	IEC 60439-1, EN 60439-1	
Type-tested low-voltage-switchgear combination (TTA)		
Clearances and creepage distances		
Rated impulse withstand voltage (U_{imp})	12 kV	
Oversupply category	IV	
Pollution degree	3	
Type of internal separation	1, 2b, 3b, 4a, 4b	
Rated insulation voltage (U_i)	1,000 V	
Rated operational voltage (U_e)	Up to 690 V	
Rated frequency	50/60 Hz	
Rated currents (I_n)		
Busbars (3-pole and 4-pole)		
Main busbars horizontal		
Rated current	Up to 4,000 A	
Rated peak withstand current (I_{pk})	Up to 220 kA	
Rated short-time withstand current (I_{cw})	Up to 100 kA, 1s	
Surface treatment		
Frame parts, extension parts	Zinc-plated	
Enclosure parts	Powder-coated RAL 7035, light grey	
Design parts	Powder-coated blue-green basic	
Protection class	I	
In acc. with IEC 61140, EN 61140		
Degree of protection		
In acc. with IEC 60529, EN 60529	IP30, IP31, IP40, IP41, IP55	
Operating conditions		
Ambient temperature ¹⁾	35°C	
Installation altitudes	≤ 2,000 m	
Framework components		
2.5 mm sheet-steel with 25 mm hole matrix in acc. with DIN 43660		
Dimensions		
Outside framework dimensions	Height Width Depth	2,000 mm 400/600/800/ 1,000/1,200 mm 400/600/800 mm
Equipping dimensions	Equipping height Module	1,800 mm 36 modules of 50 mm each
Base	Height	100/200 mm

1) Observe the correction factors with deviating operating conditions and installation altitudes

Any further information? **No problem!**

**The easy way to more information on Siemens low-voltage power distribution:
Copy and fill in this page and fax it to +49 (911) 978-3321.**

Yes, please send me further information material.

Switching and protecting with

- SENTRON switch disconnectors
- SENTRON circuit-breakers

Distributing with

- SIVACON power distribution boards and
- motor control centers
- SIVACON busbar trunking systems

Planning, configuring and managing with

- SIMARIS design
- SIMARIS manager

Totally Integrated Power

If you require further information, please contact your regional Siemens sales partner.

In case of technical questions, please contact:

Technical Assistance

Phone: +49 (911) 895-5900

E-mail: technical-assistance@siemens.com

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