

The Low-Voltage Switchboard that Sets New Standards

Safety in its Perfect Form – SIVACON S8



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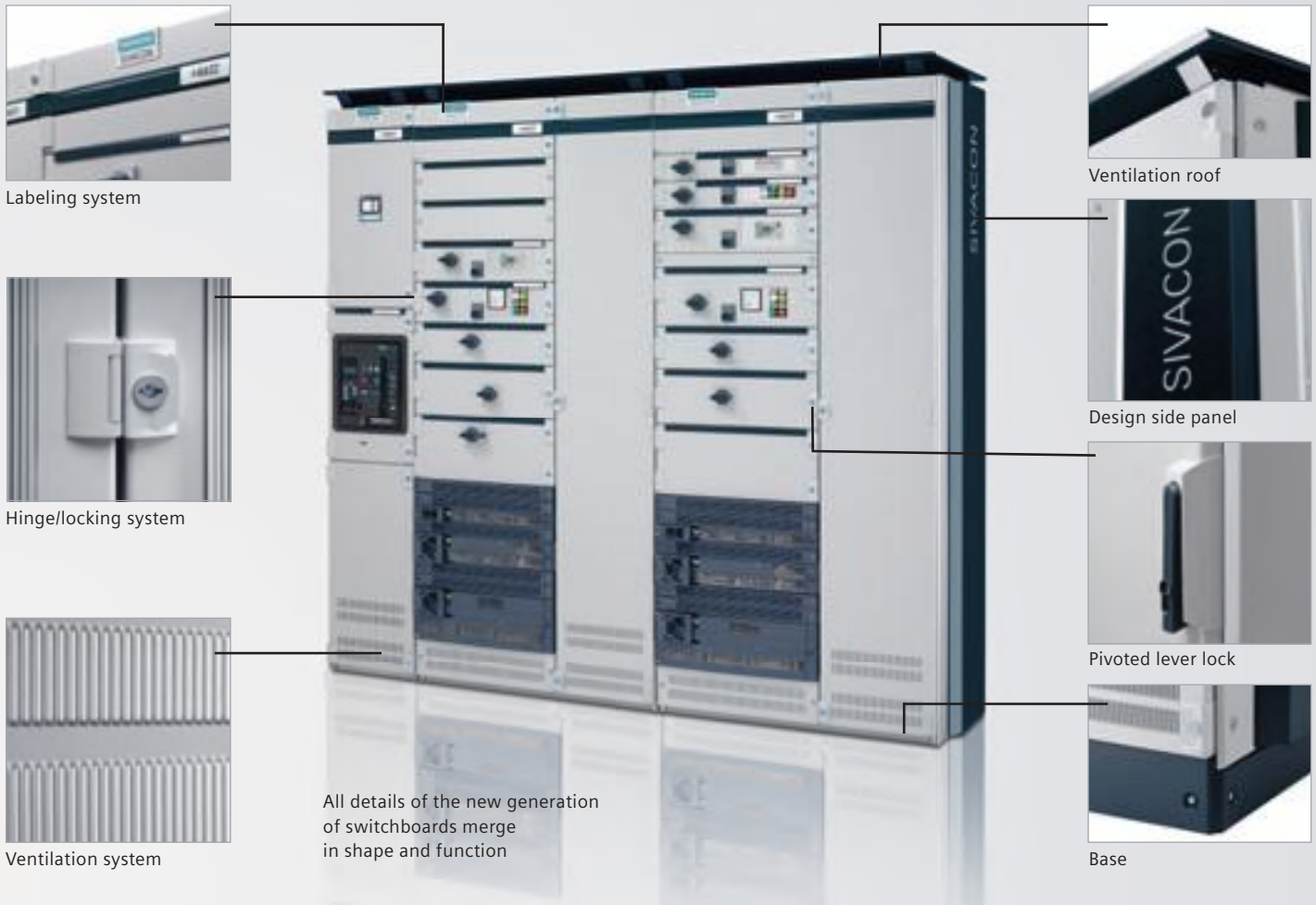
Master Your Power Requirements

With our Systematic Support

High power volumes, countless consumers, maximum availability around the clock? No matter how turbulent your power distribution requirements – our integrated low-voltage power distribution products and systems support you by competently mastering your power requirements in all situations and throughout your power distribution systems' entire service life. Our matched and powerful components help you to considerably reduce your investment costs and risks. You will benefit from the components' modularity and intelligence over the complete utilization period and thus keep a tight control of your operating costs while exploiting maximum system availability.

As an essential component of the "Totally Integrated Power" concept by Siemens, we provide integrated power distribution solutions from the medium-voltage supply right to the outlet. Communication capability and software modules allow for efficient connection to industrial and building automation, which bears further significant saving potentials. With our systematic support, you no longer need to worry about your power distribution. Our portfolio comprises the following ranges:

- SIMATIC powercontrol for comprehensive power management
- SIVACON power distribution boards and motor control centers
- SIVACON busbar trunking systems
- SENTRON switching and protection devices



SIVACON S8

The Attractive Low-Voltage Switchboard

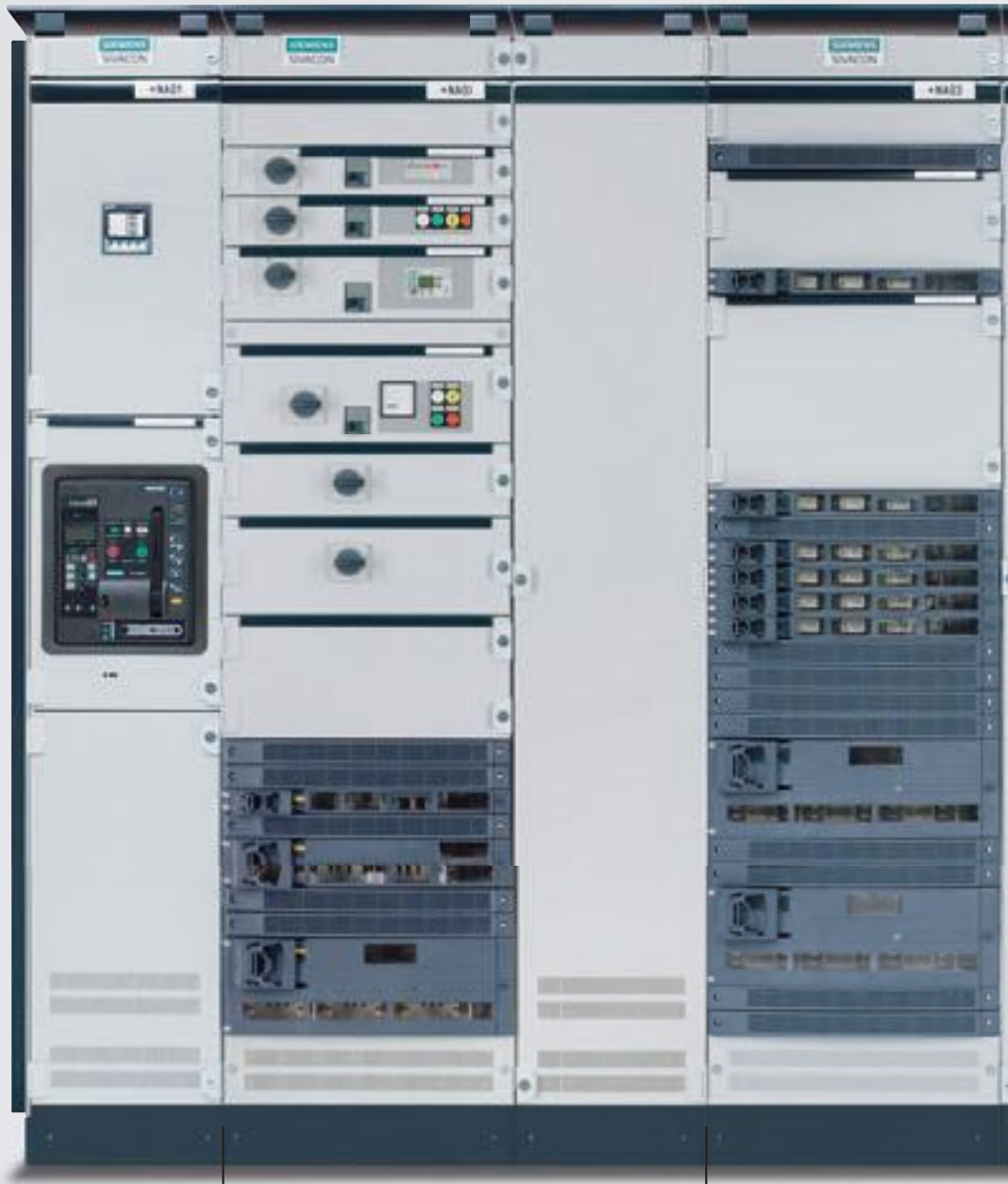
Maximum safety and an appealing design are ideally combined in an efficient solution: with SIVACON® S8, the new generation of switchboards for consistent and simple power distribution applications up to 7000 A in functional and industrial buildings and in the process industry. In addition to manifold features for improved personnel and system protection, the switchboards' new design opens up completely new application areas.

Numerous options, manifold advantages

- Maximum system safety thanks to type-tested standard modules (TTA)
- Maximum personnel safety thanks to arc-resistant locking system
- High-quality industrial design for precise integration in modern room concepts
- Space-saving erection surfaces from 400 x 500 mm
- Variable top or rear busbar positions
- Combination of different installation systems in one section
- Flexible adjustment of the form of internal separation to individual requirements
- Easy subsequent door hinge conversion thanks to universal hinge
- Ventilation system featuring a high efficiency degree and maintenance advantages
- Cable/busbar connection from the top, bottom or rear

Extensively tested, safely distributed
SIVACON S8 is a type-tested low-voltage switchgear and controlgear assembly (TTA) whose physical properties were both dimensioned for operation as well as for fault situations in the test bay. Final type tests in accordance with IEC 60439-1 and DIN EN 60439-1 guarantee maximum operational and personnel safety.

Moreover, already the standard SIVACON version features a test proof under arcing conditions in accordance with IEC 61641 and VDE 0660 Part 500, Supplement 2. This degree of safety sets new standards.



	Circuit breaker system	Universal installation system	3NJ6 in-line system
Installation systems	Fixed-mounted design Withdrawable design	Fixed-mounted design with compartment doors Plug-in 3NJ6 in-line design Withdrawable unit design, removable unit design	Plug-in 3NJ6 in-line design
Functions	Incoming feeder Outgoing feeder Coupler	Cable feeders Motor feeders	Cable feeders
Rated current I_n	Up to 6300 A	Up to 630 A Up to 250 kW	Up to 630 A
Connection position	Front and rear	Front and rear	Front
Section width (mm)	400/600/800/1000/1400	600*/1000/1200	1000/1200
Internal separation	Form 1, 2b, 3a, 4b	Form 2b, 3b, 4a, 4b	Form 3b, 4b
Busbar position	Rear/top	Rear/top	Rear/top

* not with 3NJ6



	Fixed-mounted system	3NJ4 in-line system	Reactive power compensation
	Fixed-mounted design with front covers	Fixed-mounted design	Fixed-mounted design
	Cable feeders	Cable feeders	Central compensation of reactive power
	Up to 630 A	Up to 630 A	Non-choked up to 600 kvar Choked up to 500 kvar
	Front	Front	Front
	1000/1200	600/800	800
	Form 1, 2b, 4a, 4b	Form 1, 2b	Form 1, 2b
	Rear/top	Rear	Rear/top/without



With its compact design featuring a section width of only 400 mm, SENTRON 3WL is perfectly suited for the nominal current range up to 1600 A

Outstanding User-Friendliness: Circuit Breaker System

The incoming and outgoing feeder and coupler sections of the circuit breaker system are equipped with SENTRON® 3WL air circuit breakers in withdrawable or fixed-mounted design or, alternatively, with SENTRON 3VL molded-case circuit breakers. As numerous consumers are generally installed downstream these sections, they are particularly important for the power distribution board's long-term operational and personnel safety. SIVACON compactly and safely meets these requirements with the circuit breaker system components.

Auxiliary equipment compartment

- Optimum space conditions for the auxiliary equipment holder – also for comprehensive controls and locking systems
- The auxiliary equipment holder can be separated from the power unit and removed for adjustment works

Equipment compartment

- Safe traversing of the circuit breaker with the door closed
- Maintenance position facilitates direct on-site inspection without having to remove the circuit breaker

Cable or busbar connection compartment

- Optional cable or busbar connection from the top or bottom
- The nominal current-dependent connection compartment offers optimum connection conditions for cables and busbars
- Reduced mounting times thanks to optimum connection compartments



Removable auxiliary equipment holder for fast adjustment works



SENTRON 3WL in maintenance position: Inspection without circuit breaker removal



Nominal current-dependent connection compartment for optimum connection conditions

- High safety thanks to type-tested standard modules (TTA)
- Test and disconnected position with the door closed
- Section dimensions matched to the circuit breaker size (400 mm width up to 1600 A, 600 mm width up to 3200 A, 800 mm width up to 4000 A, 1000 mm width up to 6300 A)
- Optimum connection conditions for all nominal current ranges
- Cable/busbar connection from the bottom/top
- Type-tested SIVACON 8PS busbar trunking connections

Ease of operation, maximum benefits: SENTRON 3WL

- Nominal current range from 630 A to 6300 A
- Free selection of infeed direction without restriction of the technical data
- High short-time current carrying capacity for time-selective short-circuit protection up to 400 msec guarantees safe operation of the unaffected system components
- Short-circuit protection with time-reduced selectivity control for very short delay times (50 msec), independent of the number of grading levels
- LCD operating current display on the control panel – without additional current meter and transformer



Universal installation system with withdrawable units in combination with fixed-mounted outgoing feeders and plug-in 3NJ6 in-line design

Individual Combination Options:

Universal Installation System

(Withdrawable Design, Removable Design)

As many applications require a space-optimized assembly of the power distribution board, various installation systems must be integrated in a section. For these application cases, the SIVACON universal installation system offers high efficiency, safety and variability thanks to the combination of outgoing feeders in withdrawable unit design, removable unit design, fixed-mounted design and outgoing feeders in plug-in 3NJ6 in-line system. Furthermore, the withdrawable unit design offers the respective flexibility for frequently changing requirements such as changed motor ratings or connection of new consumers. In addition, this design also accounts for ergonomic aspects and facilitates easy and safe handling as well as short conversion times for maximum system availability.



Plug-in busbar system at the compartment rear



Optionally with shutter

Plug-in busbar system

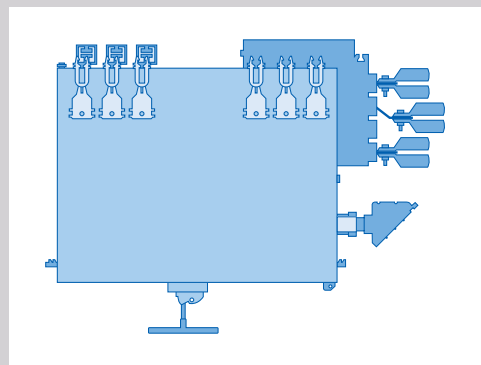
The plug-in busbar system is arranged at the section rear. It is test-finger proof even without additional shutter to energized parts.

- Arc-resistant embedding
- Phase separation
- 3- and 4-pole design
- Test-finger proof (IP20B)
- Tap openings in 50 mm module grid for standard withdrawable units and miniature withdrawable adapters

Optional

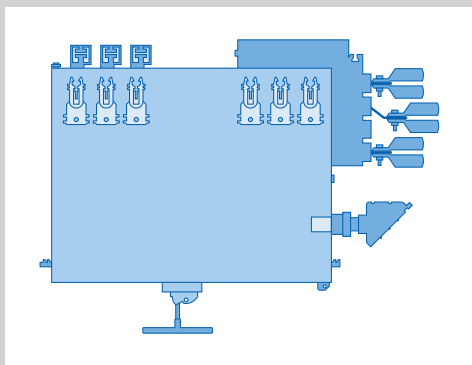
- Shutters with double-action for standard withdrawable units

SIVACON Withdrawable Units Offer Safety in Terms of Operation and Handling



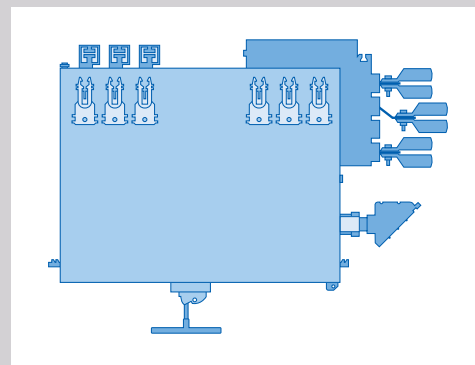
(Connected position)

Moving from the connected to the disconnection position or vice versa



(Disconnected position)

Moving from the disconnected position to the test position or vice versa



(Test position)

- High safety thanks to type-tested standard modules (TTA)
- Uniform operation for all withdrawable unit sizes
- Withdrawable unit sizes matched to power ratings (standard withdrawable units)
- All parts are arranged within the withdrawable unit contours – protection against damage
- Integrated operation error protection for all withdrawable units
- Clear indication of the withdrawable unit positions
- Separate operation for main switch and withdrawable unit position
- Test and disconnected position with the door closed without interruption of the degree of protection
- Lockable disconnected position
- Patented low-wear withdrawable unit contact system for long service life
- Optional withdrawable unit coding prevents confusion of withdrawable units of the same size
- Swivel-mounted instrument holder with standard withdrawable units for settings during operation
- Standard withdrawable units for motor and cable feeders up to 630 A
- Fused and fuseless technology

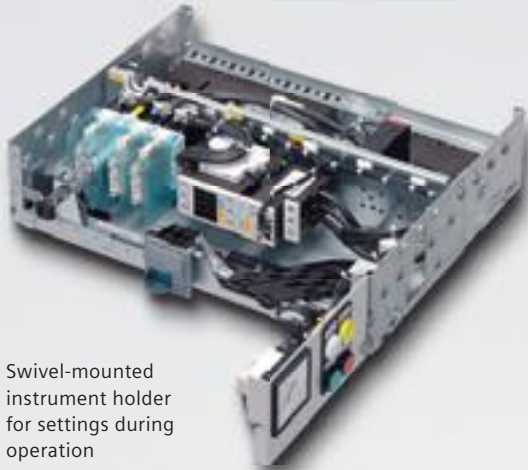


Operation error protection enabled (main switch 0)



Operation error protection disabled (main switch I)

Operation error protection prevents movement of the disconnect contacts with the main switch "ON"



Swivel-mounted instrument holder for settings during operation



Standard withdrawable unit, height 150 mm (rear view)



Lockable disconnected position

Standard withdrawable units

- Height 100 mm to 700 mm (up to 18 withdrawable units per section)

Optionally as removable design

(design similar to standard withdrawable units)

- Fixed contact systems for input/output and auxiliary plug (removable part)
- Connected position and removed position (no test and disconnected position)
- Integrated operation error protection



Standard withdrawable unit, height 100 mm



Standard withdrawable unit, height 500 mm



Easy insertion without having to overcome insertion forces



Withdrawable unit coding in the compartment



Withdrawable unit coding on the withdrawable unit

Withdrawable unit coding (mechanical) prevents the confusion of withdrawable units of the same size (up to 9216 coding options)

Flexibility and safety for adjustments to changed requirements

- Easy conversion or retrofitting of the withdrawable unit compartments without disconnection of the section
- No connection works in the withdrawable unit compartment required
- Connections for power and control cable in separate cable connection compartment
- Front-side 400 mm or 600 mm wide cable connection compartment
- Rear-side 600 mm wide cable connection compartment with 600 mm section width
- Push-in clamp or screw connection for control cables



Test and disconnected position with the door closed without interruption of the degree of protection

Communication via PROFIBUS DP with SIMOCODE pro

- Integrated full motor protection
- Comprehensive control functions
- Comfortable diagnostics options
- Autonomous operation of every feeder via operator panel
- Reduced hardware and wiring expenditures



Universal installation system section with fixed-mounted outgoing feeders (compartment door) in combination with plug-in 3NJ6 in-line design

Individual Combination Options:

Universal Installation System

(Fixed-Mounted Design with Compartment Doors, Plug-In 3NJ6 In-Line Design)

As many applications require a space-optimized assembly of the power distribution board, various installation systems must be integrated in a section. For these application cases, the SIVACON universal installation system offers high efficiency, safety and variability thanks to the combination of outgoing feeders in fixed-mounted design and outgoing feeders in plug-in 3NJ6 in-line system.



Vertical distribution busbars



Demand-compliant separation of functional compartments



Patented connection terminals

- High safety thanks to type-tested standard modules (TTA)
- Cable feeders up to 630 A with/without current measuring
- Combination of various installation systems (fixed-mounted, plug-in base and plug-in 3NJ6 in-line design)
- Modularly combinable function modules
- Add-on modules for demand-compliant separation of the functional compartments (up to form 4b)
- Operation front optionally with section-high door or compartment doors
- Cable connection compartment with 400 mm or 600 mm width

Vertical distribution busbars

Manifold connection options for cables, lines and busbars without boring

Compartmentalization

Add-on module for individual operating comfort and safety requirements

Patented connection terminals

Internal separation up to form 4b



Fixed-mounted section with front covers, including continuously adjustable device holder for a uniform front level

Comprehensive Integration Options:

Fixed-Mounted System with Front Covers

Several applications do not require the replacement of components under operating conditions or tolerate short downtimes. For these cases, the SIVACON fixed-mounted system with front covers offers maximum efficiency, safety and variability.

- High safety thanks to type-tested standard modules (TTA)
- Cable feeders up to 630 A with/without current measuring
- Modularly combinable function groups
- Innovative quick-release locking system for easy cover mounting
- Swivel-mounted cover frame for improved commissioning and maintenance comfort
- Add-on modules for demand-compliant separation of the functional compartments (up to form 4b)
- Operation front with front covers, optionally with section-high door
- Door with inspection pane for integration in modern room concepts
- Cable connection compartment with 400 mm or 600 mm width



Quick-release lock for front cover mounting



Multiple feeders with SENTRON 3VL



Swivel-mounted cover frame



Built-in installation devices

Quick-release lock or swivel-mounted cover frame

- Innovative quick-release lock for easy and fast cover mounting
- Swivel-mounted cover frame for fast commissioning and easy maintenance

Single or multiple feeders

- Continuously adjustable device holders for uniform front level
- Operation through the front cover
- Feeders with/without plug-in base

Built-in installation devices

- Aluminum multiple DIN rail for easy assembly of built-in installation devices



In-line section with 3NJ4 in-line fuse switch disconnectors and rapid mounting kits for built-in installation devices

Efficient Assembly:

Fixed-Mounted 3NJ4 In-Line System

The sections for cable feeders in fixed-mounted system are equipped with switchable in-line fuse switch disconnectors, whose compact and modular design ensures the optimum efficiency of infrastructure applications.

- High safety thanks to type-tested standard modules (TTA)
- Cable feeders up to 630 A with/without current measuring
- Installation of up to 14 feeders per section
- De-energized fuse replacement
- Doors optionally with/without cut-out
- Optional installation of rapid mounting kits or equipment holders for free equipping
- Section widths of 600 mm and 800 mm



In-line section with 3NJ6 in-line switch disconnectors



3NJ6 switch disconnecter with fuses



Plug-in busbar system, test-finger proof (IP20B)

Fast Retrofitting:

Plug-in 3NJ6 In-Line System

Switching devices featuring an in-line system with an incoming plug-in contact represent an economic alternative to the withdrawable system and facilitate easy and fast retrofitting and replacement works under operating conditions thanks to their modularity. For these applications, SIVACON stands for high efficiency, safety and flexibility.

- High safety thanks to type-tested standard modules (TTA)
- Switch disconnecter with double interruption for cable feeders up to 630 A
- Integrated current transformer (replaceable)
- Manual or motor drive
- Accessories retrofittable by the customer
- High packing density – up to 35 feeders per section
- Cable connection compartment with 400 mm or 600 mm width
- Degree of protection up to IP41
- Feeder replacement possible without disconnection of the power distribution board

Convincing Efficiency: Reactive Power Compensation

Reactive power forms in the mains due to inductive linear consumers, e.g. motors, transformers, reactors, and due to inductive non-linear consumers, e.g. power converters, welding devices, arc furnaces, rectifiers, AC and three-phase power controllers or UPS systems.

The sections for central reactive power compensation relieve transformers and cables, reduce transmission losses and save power costs. Depending on the consumer structure, the reactive power compensation is equipped with non-choked or choked capacitor modules.

Controller module with electronic reactive power controller for door installation

- Multi-function display
- Automatic C/k value setting
- Settable target power factor from 0.8 ind. to 0.8 cap.
- Manual/automatic operation
- Display mains parameters U, I, f, power factor, P, S, Q harmonics

Capacitor module (up to 200 kvar)

- Fuse switch disconnectors
- Capacitor contactors
- MKK capacitors
- Discharge devices
- Filter circuit reactors (choked)

Switch disconnecter module

- Optionally available for central isolation of the installed capacitor modules



Section for reactive power compensation 500 kvar



Capacitor module 100 kvar

Optimum Protection: Arc Resistance

The test of low-voltage power distribution boards under arc conditions is considered a special test in accordance with IEC 61641 and VDE 0660 Part 500, Supplement 2. This test serves the estimation of the hazards to which persons may be subjected in case of arcs. Thanks to the test under arc conditions, already the SIVACON standard version offers the proof of personnel safety.

Assessment criteria

1. Opening of doors and covers must be impossible
2. Parts must not fly off
3. No holes must form in the enclosure
4. Indicators must not ignite
5. PE conductor circuit for touchable cubicle parts must be functioning

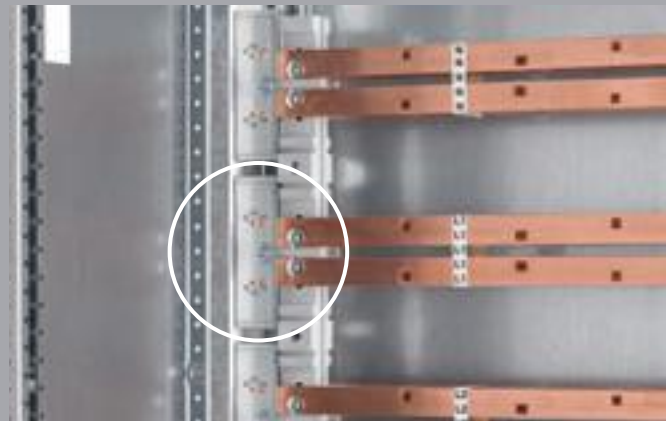
Add-on modules

For limiting the effects of an arcing fault within the power distribution board:

- Limitation to one section (arc barriers)
- Isolated main busbars (root absence)



Top plate with pressure relief in arc case



Arc barriers



Isolated main busbars



Matched to Your Requirements

The modular technology – both in the individual section as well as throughout the entire system – facilitates the optimum adjustability of power distribution boards to your individual requirements.

- Optional busbar position at the top or rear
- Individual equipping of equipment compartments, independent of busbar position and section depth
- Requirement-oriented separation of functional compartments from form 1 to form 4 (DIN EN 60439-1)
- Withdrawable unit, removable unit, fixed-mounted and plug-in design can be combined in one section (universal installation system)

Optimum adjustment to space conditions

- Front- and rear-aligned assembly of all switching section types
- Optional single-, double-front or back-to-back assembly
- Optional cable or busbar connection from the top, bottom or rear
- System height optionally 2000 mm or 2200 mm
- 100 mm or 200 mm base as add-on module

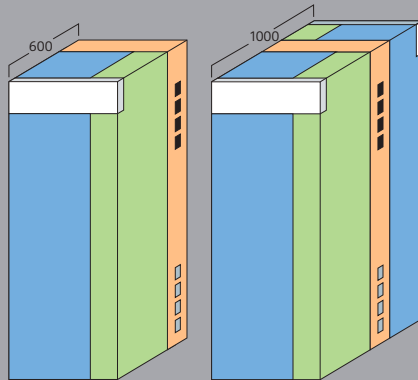
Fast adjustment to new power requirements

- Easy replacement or expansion of functional units
- Sound access to busbars
- Easy follow-up ordering and short delivery periods thanks to modular system

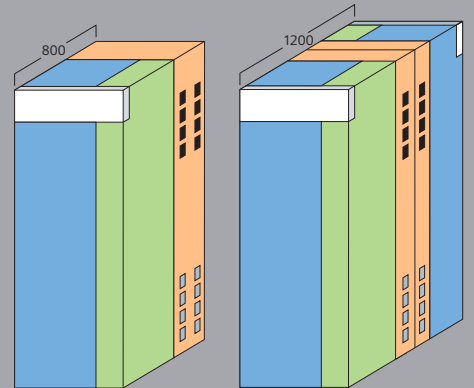


Main busbar position rear (top and/or bottom)

up to 4000 A

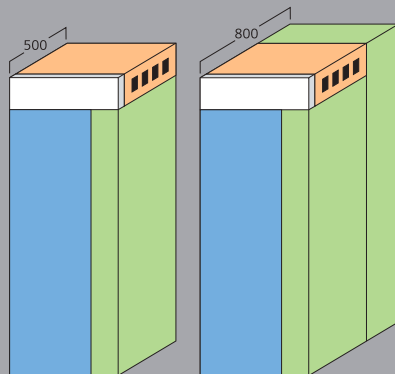


up to 7000 A

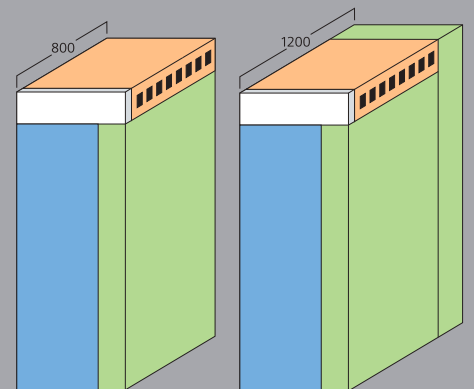


Main busbar position top

up to 3270 A



up to 6300 A



- Device compartment
- Cross-wiring compartment
- Busbar compartment
- Cable/busbar connection compartment

Embedded Protection:

Frame and Enclosure

The frame – including all supporting section elements – consists of stable screw-fastened sheet-steel profiles:

- Circumferential hole rows with 25 mm hole grid for individual configuration
- Patented door locking system for maximum personnel safety
- Doors with single or central locking
- Universal door hinge for easy door hinge conversion
- Door opening angle up to 125° (180° with stand-alone assembly)
- Doors with espagnolette or pivoted lever lock
- Top plates with pressure relief
- Frame heights optionally 2000 mm or 2200 mm
- 100 mm or 200 mm base as add-on module
- Standard section-to-section separation

Surface treatment

- Sendzimir-galvanized cubicle parts, bases, rear panels and bottom plates
- Doors, enclosures and base covers powder-coated/lacquered in RAL 7035 light gray; design parts in blue green basic

Material

The frame and enclosure are made of sheet steel with the following thickness:

- Cubicle, base: 2.5 mm
- Enclosure: 2.0 mm
- Doors: 2.0 mm

Degrees of protection in acc. with IEC 60529
IP30, IP31, IP41 ventilated, IP54 non-ventilated



Door locking systems



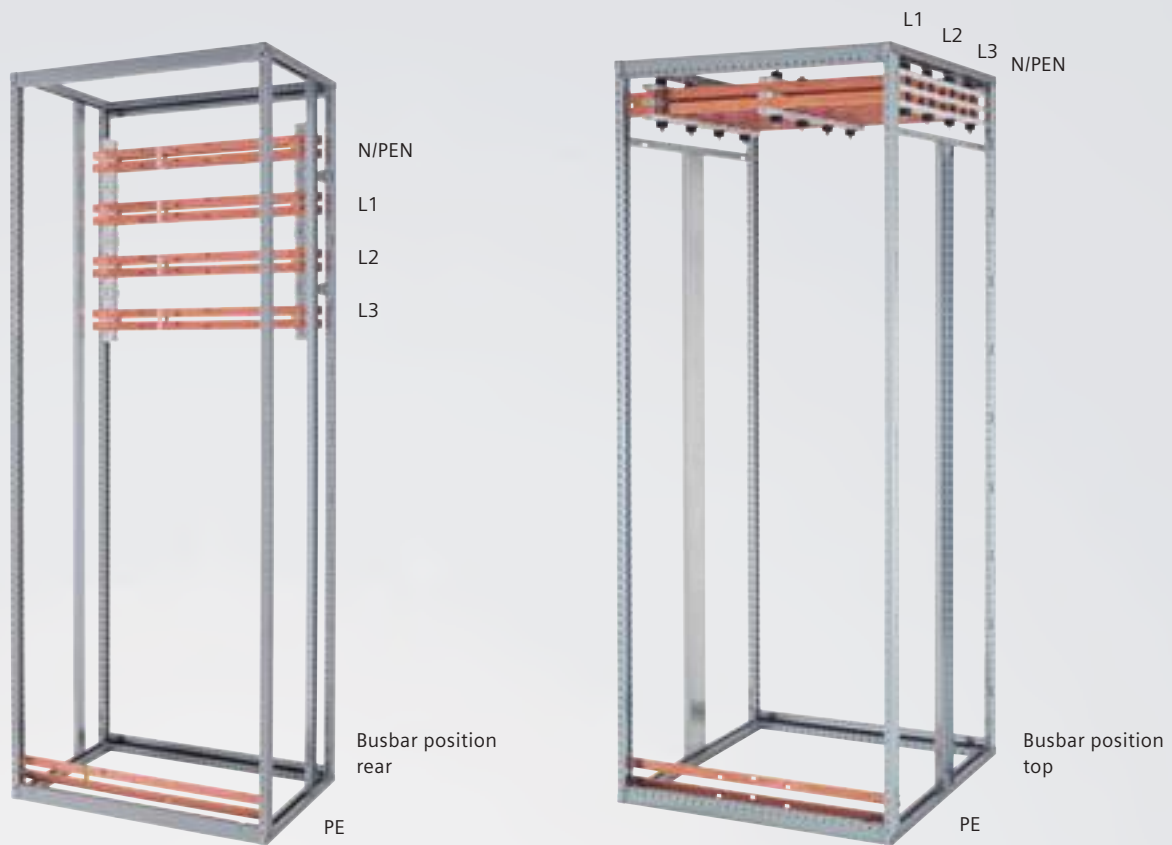
Door hinge



Top plate



Bottom plate with sliding sheet



Completely Variable: Busbar Positions

Different switching tasks require individual realization options:
Whether "simple" systems or comprehensive networks with transversal and longitudinal couplings: SIVACON combines efficient design with high-class quality.

- Top or rear busbar position
- Busbar systems for rated currents up to 7000 A
- Rated peak withstand current (I_{pk}) up to 330 kA
- Integrability of two busbar systems in the power distribution board
- Transport parting points easily accessible from the front or top
- Zero-maintenance busbar connections

Add-on modules

- Arc barrier for limitation of arcing effects to one section
- Isolated busbar systems (base-free design)



Vertical PE and N conductor rails arranged in the cable connection compartment at the right



Transport parting points easily accessible from the front

At a Glance:

Technical Data

Standards and regulations	Type-tested low-voltage switchgear and controlgear assembly (TTA)	IEC 60439-1 DIN EN 60439-1 (VDE 0660 Part 500)	
	Testing of response to internal faults (arcing faults)	IEC 61641, VDE 0660 Part 500, Supplement 2 (U_e up to 440 V, I_{cw} up to 50 kA, $t = 100$ msec)	
	Protection against electric shock	DIN EN 50274, VDE 0660 Part 514	
Rated insulation voltage (U_i)	Main circuit	1000 V	
Rated operational voltage (U_e)	Main circuit	Up to 690 V	
Clearances and creepage distances	Rated impulse withstand voltage U_{imp}	8 kV / 12 kV	
	Overtoltage category	III / IV	
	Pollution degree	3	
Busbars (3-pole and 4-pole)	Main busbars horizontal	Rated current Rated peak withstand current (I_{pk}) Rated short-time withstand current (I_{cw})	up to 7000 A up to 330 kA up to 150 kA
	Busbars vertical for circuit breaker system	Rated current Rated peak withstand current (I_{pk}) Rated short-time withstand current (I_{cw})	up to 6300 A up to 220 kA up to 100 kA
	Busbars vertical for universal and fixed-mounted system	Rated current Rated peak withstand current (I_{pk}) Rated short-time withstand current (I_{cw})	up to 1600 A up to 143 kA up to 65 kA*
	Busbars vertical for 3NJ4 in-line system (fixed-mounted)	Rated current Conditional rated short-circuit current (I_{cc})	up to 1600 A up to 50 kA
	Busbars vertical for 3NJ6 in-line system (plug-in)	Rated current Rated peak withstand current (I_{pk}) Rated short-time withstand current (I_{cw})	up to 2100 A up to 110 kA up to 50 kA*
Rated device currents		3WL/3VL circuit breakers Cable feeders	up to 6300 A up to 630 A
Internal separation	Form 1 to form 4	IEC 60439-1, Section 7.7, VDE 0660 Part 500, 7.7	
Surface treatment	(Coating acc. to DIN 43656) Frame parts, bases Doors Side panels Rear panels, top plates Ventilation roof Standard color of powder-coated parts (coating thickness $100 \pm 25 \mu\text{m}$)	Sendzimir-galvanized Powder-coated Powder-coated Sendzimir-galvanized Powder-coated RAL 7035, light gray Design parts: blue green basic	
IP degree of protection	In acc. with IEC 60529, EN 60529	IP30, IP31, IP40, IP41, IP54	
Dimensions	Preferred dimensions in acc. with DIN 41488	Height (without base): Width: Depth (single-front): Depth (double-front):	2000, 2200 mm 400, 600, 800, 1000, 1200 mm 500, 600, 800 mm 1000, 1200 mm

* Conditional rated short-circuit current (I_{cc}) = 100 kA

Project Checklist

Customer	Processor
Project	Telephone
Order No.	Fax
Delivery date	Date

Standards and regulations

<input type="checkbox"/> IEC 60439-1/EN 60439-1 VDE 0660 Part 500	<input type="checkbox"/> IEC 61641/VDE 0660 Part 500, Supplement 2 arc resistance (standard 440 V, 50 kA, 100 msec)	<input type="checkbox"/> Arc barriers for limitation of arcs to one section
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Environmental conditions

Environmental class (acc. IEC 60721-3-3)	<input type="checkbox"/> Interior room climate 3K4						
Ambient temperature (24-h average)	<input type="checkbox"/> 20 °C	<input type="checkbox"/> 25 °C	<input type="checkbox"/> 30 °C	<input type="checkbox"/> 35 °C	<input type="checkbox"/> 40 °C	<input type="checkbox"/> 45 °C	<input type="checkbox"/> 50 °C
Erection height above sea level	<input type="checkbox"/> ≤ 2000 m		<input type="checkbox"/> other				
IP degree of protection against the interior section ventilated	<input type="checkbox"/> IP30	<input type="checkbox"/> IP31	<input type="checkbox"/> IP40	<input type="checkbox"/> IP41			
section non-ventil.	<input type="checkbox"/> IP54 (not 3NJ6 in-line design, reactive power compensation)						
against the cable bottom	<input type="checkbox"/> IP00	<input type="checkbox"/> IP30	<input type="checkbox"/> IP40	<input type="checkbox"/> IP54			
	<input type="checkbox"/> manufacturer-provided		<input type="checkbox"/> customer-provided				
Aggravated operation conditions	<input type="checkbox"/> none		<input type="checkbox"/> chemical emissions				
Control cabinet heating	<input type="checkbox"/> no		<input type="checkbox"/> yes				

Mains data / infeed data

Network type	<input type="checkbox"/> TN-C	<input type="checkbox"/> TN-S	<input type="checkbox"/> TN-C-S	<input type="checkbox"/> IT	<input type="checkbox"/> TT
Design external connection	<input type="checkbox"/> L1, L2, L3, PEN <input type="checkbox"/> CEP (PEN + PE) <input type="checkbox"/> 3-pole switchable	<input type="checkbox"/> L1, L2, L3, PE + N	<input type="checkbox"/> other:		
	<input type="checkbox"/> 4-pole switchable				
Rated transformer power S_r	kVA	Rated short-circuit voltage U_z	%		
Rated operational voltage U_e	V	Frequency f	Hz		
Rated short-term withstand current I_{cw}	kA				

Busbar system horizontal

Position	<input type="checkbox"/> top	<input type="checkbox"/> rear (top)	<input type="checkbox"/> rear (bottom)		
Rated current I_n	A	A	A		
Treatment CU	<input type="checkbox"/> blank	<input type="checkbox"/> silver-plated	<input type="checkbox"/> tin-plated		
	<input type="checkbox"/> isolated L1, L2, L3		<input type="checkbox"/> isolated L1, L2, L3, N		
Design AC L1, L2, L3 +	<input type="checkbox"/> PEN	<input type="checkbox"/> PE	<input type="checkbox"/> N	<input type="checkbox"/> PEN, N = 50 %	<input type="checkbox"/> PEN, N = 100 %

Busbar system vertical

Treatment CU	<input type="checkbox"/> blank	<input type="checkbox"/> silver-plated	<input type="checkbox"/> tin-plated	<input type="checkbox"/> isolated to breaker (circuit breaker design)	
Design AC L1, L2, L3 +	<input type="checkbox"/> PEN	<input type="checkbox"/> PE	<input type="checkbox"/> N	<input type="checkbox"/> PEN, N = 50 %	<input type="checkbox"/> PEN, N = 100 %
Other conditions					

Assembly and erection

Assembly type	<input type="checkbox"/> single-front	<input type="checkbox"/> double-front	<input type="checkbox"/> back-to-back		
Restriction of total length	<input type="checkbox"/> without	<input type="checkbox"/> yes	mm		
Max. net length per transport unit	<input type="checkbox"/> 2400 mm	<input type="checkbox"/>	mm		
Cable/busbar connection					
with incoming feeder sections	<input type="checkbox"/> from the bottom	<input type="checkbox"/> from the top	<input type="checkbox"/> from the rear		
with outgoing feeder sections	<input type="checkbox"/> from the bottom	<input type="checkbox"/> from the top	<input type="checkbox"/> from the rear		

Sections

Internal separation in acc. with IEC 60439-1, DIN EN 60439-1, VDE 0660 Part 500, Section 7.7

Circuit breaker system	<input type="checkbox"/> form 1	<input type="checkbox"/> form 2b	<input type="checkbox"/> form 3a		<input type="checkbox"/> form 4b	
Universal installation system		<input type="checkbox"/> form 2b		<input type="checkbox"/> form 3b	<input type="checkbox"/> form 4a	<input type="checkbox"/> form 4b
Fixed-mounted system	<input type="checkbox"/> form 1	<input type="checkbox"/> form 2b			<input type="checkbox"/> form 4a	<input type="checkbox"/> form 4b
Fixed-mounted 3NJ4 in-line system	<input type="checkbox"/> form 1	<input type="checkbox"/> form 2b				
Plug-in 3NJ6 in-line system				<input type="checkbox"/> form 3b		<input type="checkbox"/> form 4b
Reactive power compensation	<input type="checkbox"/> form 1	<input type="checkbox"/> form 2b				

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