

Switchboards



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For further technical product information:

Siemens Industry Online Support:

www.siemens.com/lowvoltage/product-support

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 Application example
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 Product note
 Software archive
 Technical data

Switchboards

Introduction

Overview



SIVACON S8 power distribution boards and motor control centers up to 7000 A

- Reliable, economical, flexible and communication-capable
- For all applications in infrastructure and process industry
- In circuit breaker design
- In 3NJ4 in-line design, fixed-mounted
- In 3NJ6 in-line design, plugged in
- In fixed-mounted design (infrastructure)
- Degree of protection up to IP54
- Design-verified according to IEC 61439-1/2 (type-tested according to IEC 60439-1)
- Tested for resistance to internal arcing faults in compliance with IEC/TR 61641
- Tested for resistance to earthquakes
- In universal mounting design for the combination of:
 - Withdrawable unit design
 - Fixed-mounted design
 - 3NJ6 in-line design, plugged in



SIVACON S4 power distribution boards up to 4000 A

- Reliable, economical and flexible for all infrastructure applications
- For all infrastructure applications
- In circuit breaker design
- In 3NJ4 in-line design, fixed-mounted
- In 3NJ6 in-line design, plugged in
- Fixed-mounted design for 3VA, 3NP1, modular installation devices
- Degree of protection up to IP55
- System for producing a switchgear and controlgear assembly in accordance with IEC 61439-1/2
- ALPHA 8GK modular installation system

Design

Low-voltage switchboards form the link between the equipment used to produce electricity (generators), transmit it (cables, overhead lines) and transform it (transformers) on the one hand and loads such as motors, solenoid valves, actuators and devices for heating, lighting and air conditioning on the other.

As the majority of applications are supplied with low voltage, the low-voltage switchboard is of special significance in both public supply systems and industrial plants.

Reliable power supplies depend on good availability, flexibility to allow for changes and process-related modifications, and high operational reliability.

Power distribution in a low-voltage system usually takes place via a main switchboard (power center or main distribution board) and a number of sub-distribution boards. These sub-distribution boards are often motor distribution boards, which are also known as motor control centers (MCC) (see example opposite).

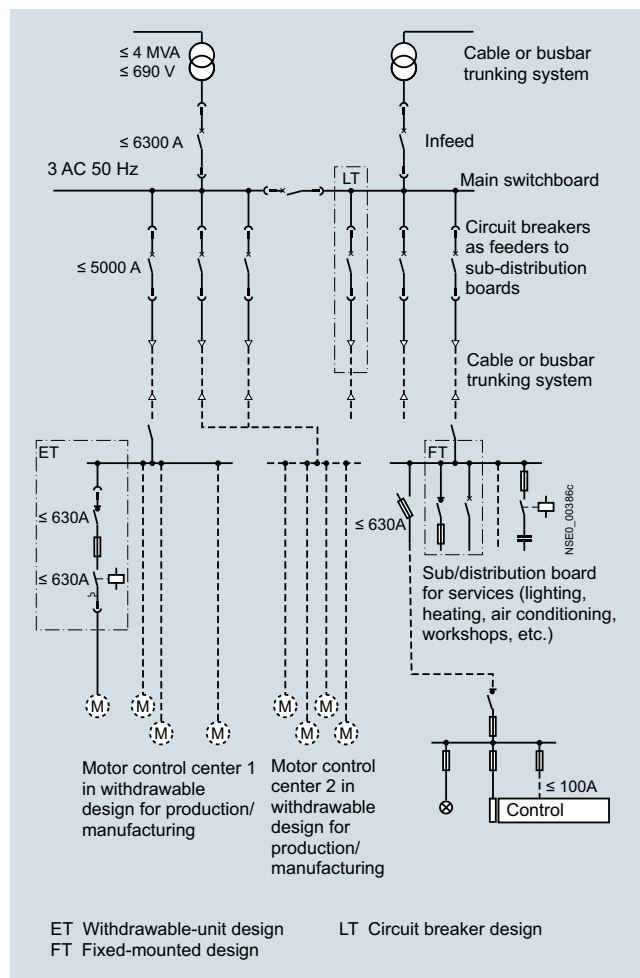
The SIVACON S4 and SIVACON S8 low-voltage power distribution boards offer optimal solutions for applications up to 7000 A.

The SIVACON S8 low-voltage power distribution board is produced by Siemens or by our SIVACON technology partner in your area.

The most important selection criteria are shown in the table below.

You can find more information on the Internet at:

www.siemens.com/sivacon



Power distribution in a low-voltage system

Technical specifications

Selection criteria	SIVACON S8		SIVACON S4	
	Top	Rear	Top	Bottom
Busbar position				
Rated currents				
• Busbars up to	6300 A	7010 A	4000 A	3200 A
• Infeed up to	6300 A	6300 A	4000 A	3200 A
Short-circuit strength				
• Rated short-time withstand current I_{cw} (1 s)	150 kA	150 kA	100 kA	100 kA
• Rated peak withstand current I_{pk}	330 kA	330 kA	220 kA	220 kA
Mounting design				
• Fixed-mounted design	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾
• In-line design, fixed-mounted	✓	✓	✓	✓
• In-line design, plugged in	✓	✓	✓	--
• Withdrawable unit design	✓	✓	--	--
Type of installation				
• Free-standing/against wall	✓	✓	✓	✓
• Back to back	✓	✓	✓	✓
• Double-fronted	--	✓	--	--
Use				
• Motor control centers	✓	✓	--	--
• Power distribution boards	✓	✓	✓	✓
Manufactured by SIVACON Technology Partner	✓	✓	--	--

✓ Available

-- Not available

¹⁾ Circuit breakers optionally in withdrawable unit design or on a plug-in base.

Switchboards

SIVACON S8 Power Distribution Boards and Motor Control Centers

General data

Overview



SIVACON S8 low-voltage switchboard

The SIVACON S8 low-voltage switchboard sets new standards as a power distribution board or motor control center (MCC) for industrial applications or in infrastructure. The power distribution board system up to 7000 A for simple and consistent distribution of power ensures a high degree of personal and plant safety and, thanks to its optimal design, offers a wide range of possible uses.

SIVACON S8 is custom configured and constructed using design-verified functional modules.

We or our authorized contractual partners take care of the following:

- Customized configuration
- Mechanical and electrical construction
- Verification

Documentation specified by us serves as the basis for our authorized contractual partners.

Standards and regulations

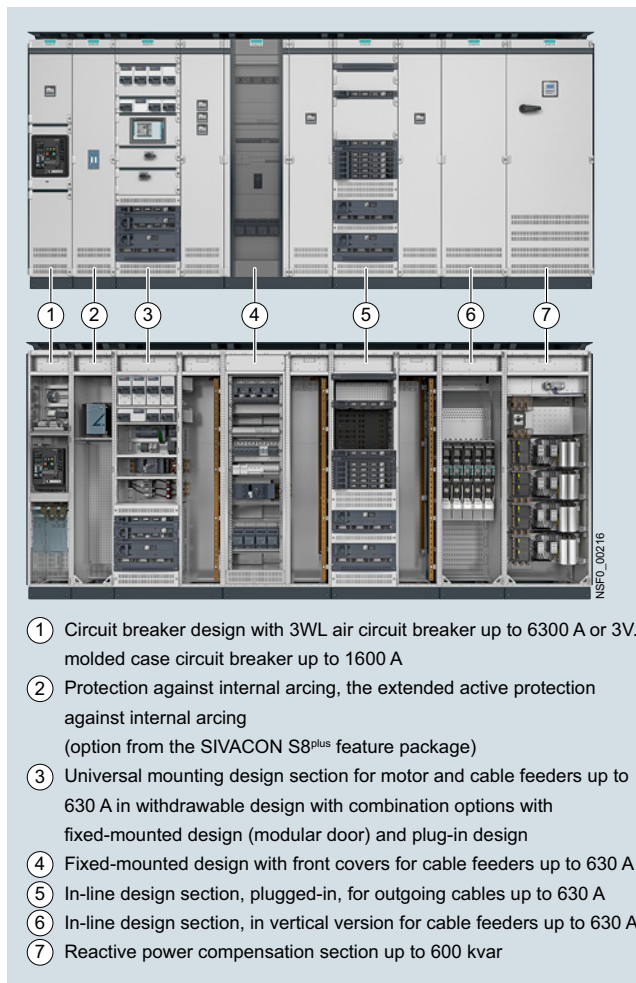
The SIVACON S8 low-voltage power distribution board is a design-verified low-voltage switchgear and controlgear assembly according to IEC 61439-1/2 (formerly IEC 60439-1 TTA). The switchboard is designed to be resistant to arc faults according to IEC/TR 61641, EN 60439 (VDE 0660 part 500), supplement sheet 2.

SIVACON S8 can be used as a design-verified power distribution board and motor control center up to 7000 A.

Mounting designs

The SIVACON S8 low-voltage switchboard consists of standardized and typified components which can be flexibly combined as a cost-effective overall solution.

The following mounting designs are available:



- ① Circuit breaker design with 3WL air circuit breaker up to 6300 A or 3V, molded case circuit breaker up to 1600 A
- ② Protection against internal arcing, the extended active protection against internal arcing (option from the SIVACON S8^{plus} feature package)
- ③ Universal mounting design section for motor and cable feeders up to 630 A in withdrawable design with combination options with fixed-mounted design (modular door) and plug-in design
- ④ Fixed-mounted design with front covers for cable feeders up to 630 A
- ⑤ In-line design section, plugged-in, for outgoing cables up to 630 A
- ⑥ In-line design section, in vertical version for cable feeders up to 630 A
- ⑦ Reactive power compensation section up to 600 kvar

SIVACON S8 low-voltage switchboard with standardized and typified components

Universal mounting design

In many applications it is necessary for space reasons to integrate various mounting designs in one and the same section.

The universal mounting design from SIVACON S8 offers high efficiency, safety and high variability through the combination of

- withdrawable unit design,
- fixed-mounted design with modular doors and
- plug-in design.

Design

Withdrawable unit design

The flexible withdrawable unit design is suitable for different applications, e.g. as a motor control center. Following features are offered to improve personal and machine safety:

- Uniform operation for all withdrawable unit sizes
- Integrated operating error protection for all withdrawable units
- Unambiguous indication of withdrawable unit positions
- Separate actuation for main control switch and withdrawable unit position
- Test and disconnected position with door closed, without interruption of degree of protection
- Lockable disconnected position
- Withdrawable unit coding prevents swapping of withdrawable units of same size
- Swiveling instrument panel on standard withdrawable units for making settings during operation
- Small withdrawable units for motor and cable feeders up to 63 A

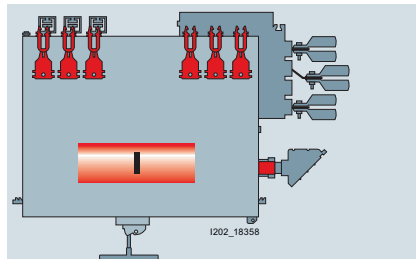
The withdrawable units are ergonomically designed and offer the required flexibility where requirements change frequently. Changing requirements include e.g. a new motor rating or adding new loads.

Simple and safe handling as well as fast changeover times ensure the high availability of the plant.

Withdrawable unit positions

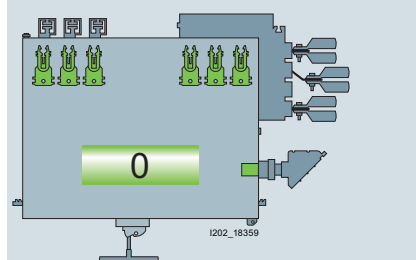
Connected position

In the connected position, both power and control contacts are closed.



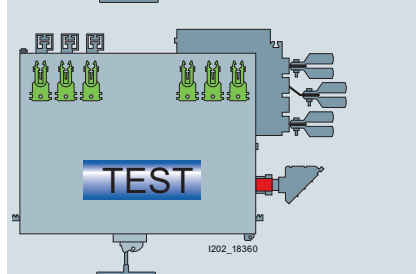
Disconnected position

Withdrawable units in the disconnected position are disconnected on the line side, the output side, and the control side.



Test position

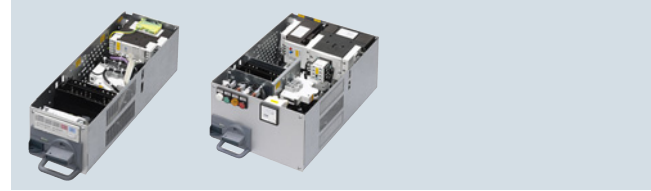
The test position is used for testing the withdrawable units without load.



Withdrawable unit versions

Small withdrawable units:

- Size 1/4 and 1/2
- Height 150 mm and 200 mm
- Up to 48 withdrawable units per section



Small withdrawable unit size 1/4 (left) and size 1/2 (right)

Standard withdrawable units:

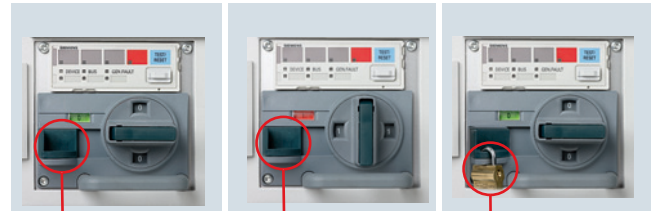
- Height 100 mm to 700 mm
- Up to 18 withdrawable units per section



Standard withdrawable unit

Operating error protection

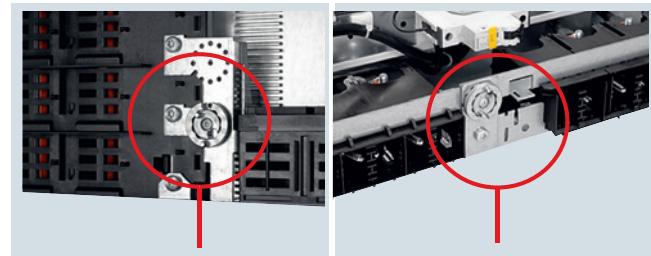
The operating error protection prevents movement of the isolating contacts with main control switch "ON".



Operating error protection enabled, main control switch in position "0" Operating error protection disabled, main control switch in position "1" Lockable disconnected position

Withdrawable unit coding

The mechanical withdrawable unit coding with 96 (optionally up to 9216) coding variants prevents swapping of withdrawable units of the same size.



Withdrawable unit coding in the compartment

Withdrawable unit coding on the unit

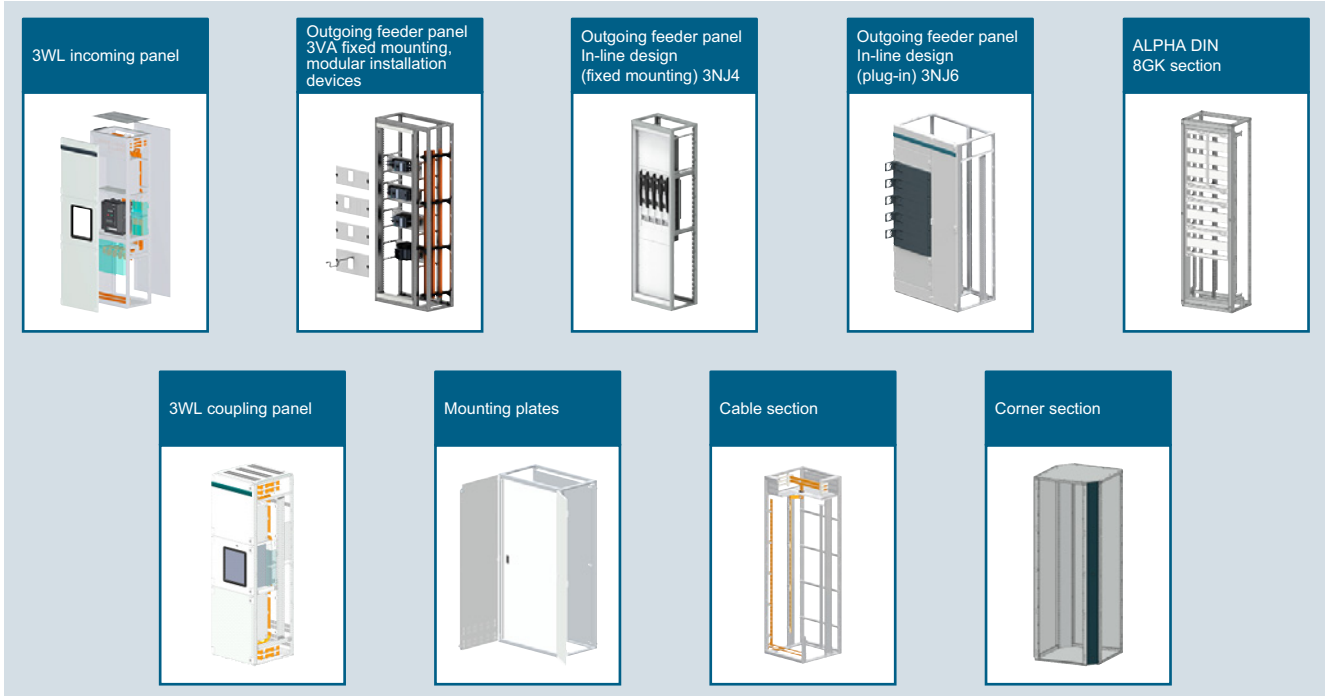
More information

More information can be found on the Internet at www.siemens.com/sivacon-S8

SIVACON S4 Power Distribution Boards

System overview

Overview



Area of application

SIVACON S4 is a system for producing a design-verified switchgear and controlgear assembly compliant with IEC 61439-1/2, which is used for supplying the infrastructure. Applications include:

- Administrative and special-purpose buildings
- Industrial and commercial buildings
- Public buildings
- Schools

The concept of the SIVACON S4 low-voltage power distribution board is characterized by a high level of personal and plant safety.

SIVACON S4 low-voltage power distribution boards are constructed according to a modular design system. Thanks to the use of requirements-based, standardized and series-produced assembly kits and the wide range of possible combinations offered, almost every need in connection with low-voltage power distribution can be optimally met.

Features at a glance

- System for producing a design-verified switchgear and controlgear assembly in accordance with IEC 61439-1/2
- Easy design and configuring with the SIMARIS configuration software tool (see chapter "Software")
- The construction of main busbars in separate phases enables the vast majority of connections to be made without the need for drilling and permits economical scaling of the copper bars
- Intelligent ventilation concept harmonized with the Siemens components reduces the derating to a minimum
- Extremely flexible application. Cables can be connected from top / bottom and rear
- Power distribution boards and components from a single source

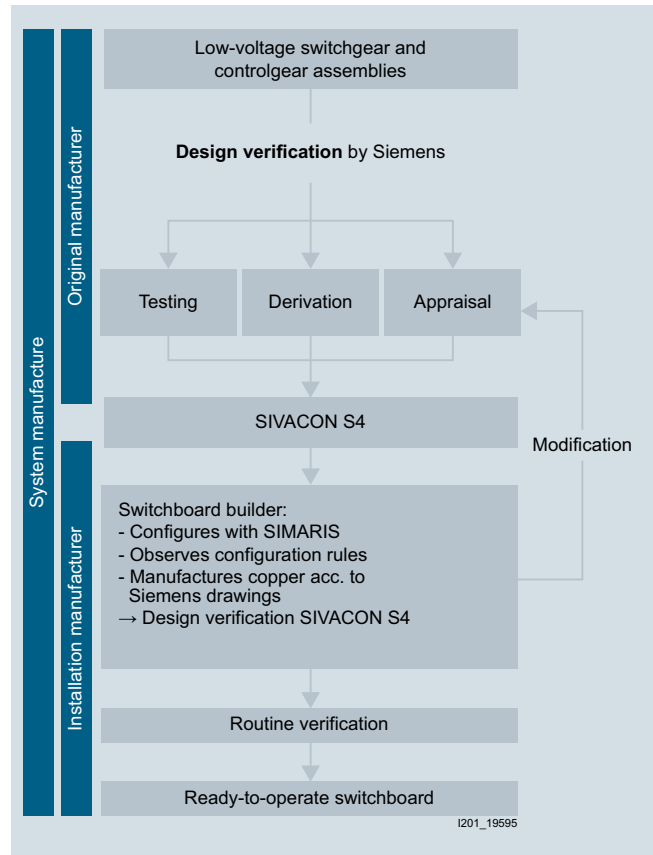
Benefits

Construction and testing modalities acc. to IEC 61439-1/-2

The area of responsibility of the units involved is clearly defined within the switchboard standard. With SIVACON S4 Siemens as the original manufacturer is offering a system for producing a design-verified switchgear and controlgear assembly.

The switchboard builder (manufacturer of the switchgear and controlgear assembly) combines it in accordance with the application and configuration rules specified by Siemens. The free-of-charge SIMARIS configuration software provides assistance in this regard. What is more, all the copper drawings and terminal diagrams of the devices are stored in this program. This means that the design verifications performed by Siemens still retain their validity. In the event of a customer-specific modification the switchboard builder naturally slips into the role of the original manufacturer and ensures compliance with applicable standards.

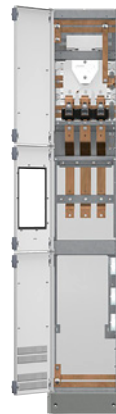
After carrying out the routine test and commissioning, a ready-to-operate switchgear and controlgear assembly is created which is then handed over to the owner of the plant. This regulated procedure creates trust and provides a reliable, uninterrupted power supply.



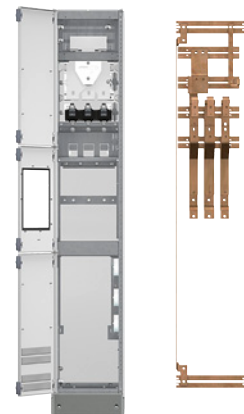
Delivery options



Flat-pack



Pre-assembled with copper



Pre-assembled without copper

SIVACON S4 Power Distribution Boards

Technical specifications

Standards and regulations	System for producing a design-verified switchgear and controlgear assembly	IEC 61439-1/2 EN 61439-1/2
Key electrical data	Rated operational voltage (U_e) Type of current Rated frequency Rated impulse withstand voltage (U_{imp}) Pollution degree Material group Rated insulation voltage (U_i) Rated current (I_n) Rated peak withstand current (I_{pk}) Rated short-time withstand current (I_{cw})	Up to 690 V AC 50/60 Hz Up to 12 kV 3 II 1000 V Up to 4000 A Up to 220 kA Up to 100 kA, 1 s
Arcing fault testing Main busbar in compliance with IEC TR 61641	Rated operational voltage Rated short-time alternating current Length of internal arc Length of internal arc with barrier	400 V 50 kA 100 ms 300 ms
Safety class	According to IEC 61140, EN 61140	I
Degree of protection	According to IEC 60529, EN 60529 Ventilated Non-ventilated	IP30, IP31 [3NJ4 due to modular door] IP40, IP41 IP55
Form of internal separation		1 - No separation 2b - Separation, main busbars 3b - Separation, devices 4b - Separation, connections
Impact strength	According to IEC 62262, Paragraph 9.6 Front frame with quick-closing covers Top plate Door, side panel, rear panel	IK08 IK09 IK10
Max. construction weight According to IEC 62208, Paragraph 9.3, 9.4	Static load	1200 kg
Operating conditions <i>Observe correction factors for other conditions</i> Ambient temperature Installation altitudes Installation Operating personnel	24 hour mean value	≤ 35 °C ≤ 2000 m Indoor installation Electrically skilled persons acc. to (IEC 61439-1, Paragraph 3.7.12)
Plate thickness	Frame Enclosure Covers	2.5 mm 1.5 mm 1.0 mm
Surface treatment Frame components and interior components Enclosure parts	Sendzimir-galvanized Epoxy polyester resin Iron phosphating Powder coating thickness	Min. 20 μm RAL 7035 100 μm (+/- 25 μm)
Dimensions Frame exterior dimensions Hole pattern in frame acc. to DIN 43660 Base	Height in mm Width in mm Depth in mm in mm Height in mm	2000 350, 400, 600, 800, 850, 1000, 1200 400, 600, 800 25 100, 200

SIVACON S4 Power Distribution Boards

Frame

Without main busbar

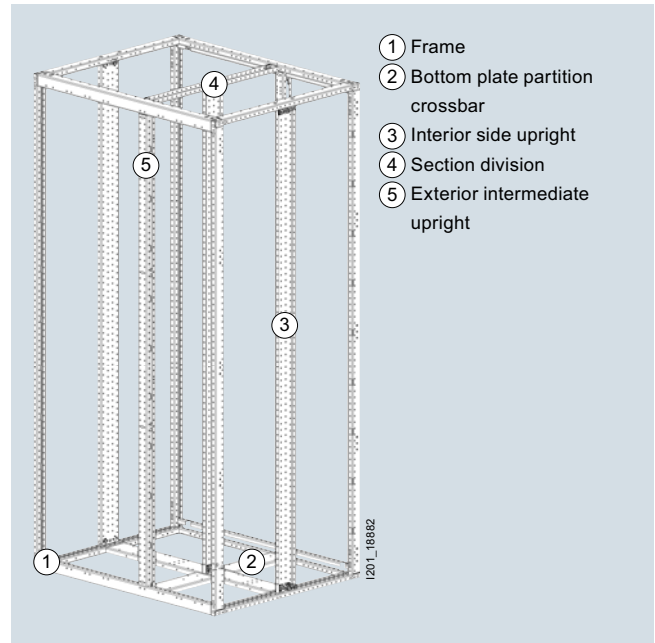
Overview

Features

Standardized grid dimensions

- Frame divisions: possible every 200 mm
- Assembly kits: 400, 600 and 800 mm
- Cable compartments: 200, 400 mm
- Vertical busbar: 200, 400 mm

Equipment height for assembly kits: 1800 mm



- ① Frame
- ② Bottom plate partition crossbar
- ③ Interior side upright
- ④ Section division
- ⑤ Exterior intermediate upright

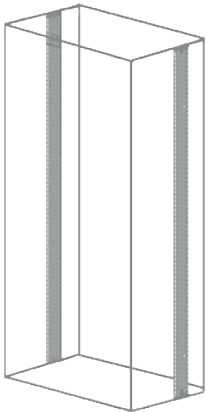
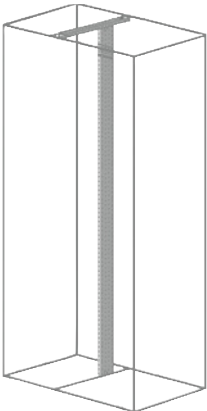
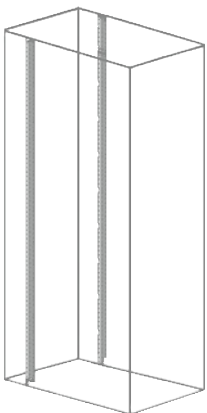
Selection and ordering data

Version	Article No.	PS
	www.siemens.com/product?Article.No.	
① Frame Height: 2000 mm		
Width in mm	Depth in mm	
400	400	8PQ1204-4BA01 1 unit
	600	8PQ1204-6BA01 1 unit
	800	8PQ1204-8BA01 1 unit
600	400	8PQ1206-4BA01 1 unit
	600	8PQ1206-6BA01 1 unit
	800	8PQ1206-8BA01 1 unit
800	400	8PQ1208-4BA01 1 unit
	600	8PQ1208-6BA01 1 unit
	800	8PQ1208-8BA01 1 unit
1000	400	8PQ1201-4BA02 1 unit
	600	8PQ1201-6BA02 1 unit
	800	8PQ1201-8BA03 1 unit
1200	400	8PQ1202-4BA02 1 unit
	600	8PQ1202-6BA02 1 unit
	800	8PQ1202-8BA02 1 unit
② Bottom plate partition crossbars For width 600 to 1200 mm		
Depth in mm	Quantity	
400	1 ×	8PQ3000-1BA38 1 unit
600	1 ×	8PQ3000-1BA40 1 unit
800	2 ×	8PQ3000-1BA38 1 unit

SIVACON S4 Power Distribution Boards

Frame

Without main busbar

	Version	Article No. www.siemens.com/ product?Article.No.	PS
	<p>③ Interior side uprights</p> <ul style="list-style-type: none"> • For width from 400 to 1200 mm • For depth from 600 to 800 mm • Not required for depth 400 <p>Depth in mm</p> <p>600</p> <p>800</p>	<p>8PQ3000-0BA03</p>	<p>1 unit</p>
	<p>④ Section division</p> <ul style="list-style-type: none"> • Not required for depth 400 <p>Depth in mm</p> <p>600</p> <p>800</p>		
	<p>⑤ Exterior intermediate uprights</p> <p>For fitting</p> <ul style="list-style-type: none"> • Outer covers • Section doors • Modular doors 	<p>8PQ3000-1BA43</p>	<p>1 unit</p>

SIVACON S4 Power Distribution Boards

Frame

Main busbar at top

Overview

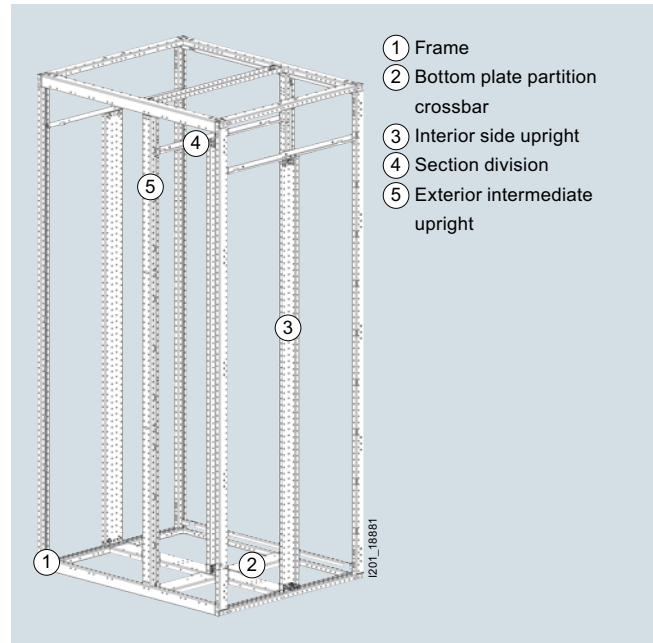
Frame divisions in a grid size of 200 mm are possible.

Features

Standardized section widths

- Frame divisions: possible every 200 mm
- Assembly kits: 400, 600 and 800 mm
- Cable compartments: 200, 400 mm
- Vertical busbar: 200, 400 mm

Equipment height for assembly kits: 1600 mm



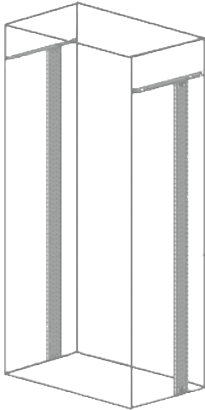
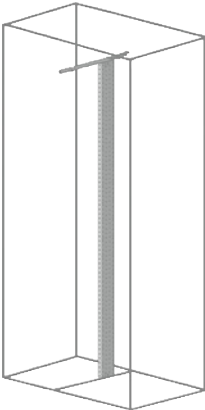
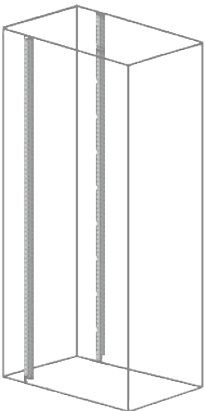
Selection and ordering data

Version	Article No. www.siemens.com/ product?Article No.	PS
① Frame Height: 2000 mm		
Width in mm	Depth in mm	
400	400	8PQ1204-4BA01 1 unit
	600	8PQ1204-6BA01 1 unit
	800	8PQ1204-8BA01 1 unit
600	400	8PQ1206-4BA01 1 unit
	600	8PQ1206-6BA01 1 unit
	800	8PQ1206-8BA01 1 unit
800	400	8PQ1208-4BA01 1 unit
	600	8PQ1208-6BA01 1 unit
	800	8PQ1208-8BA01 1 unit
1000	400	8PQ1201-4BA02 1 unit
	600	8PQ1201-6BA02 1 unit
	800	8PQ1201-8BA03 1 unit
1200	400	8PQ1202-4BA02 1 unit
	600	8PQ1202-6BA02 1 unit
	800	8PQ1202-8BA02 1 unit
② Bottom plate partition crossbars For width 800 to 1200 mm		
Depth in mm	Quantity	
400	1 ×	8PQ3000-1BA38 1 unit
600	1 ×	8PQ3000-1BA40 1 unit
800	2 ×	8PQ3000-1BA38 1 unit

SIVACON S4 Power Distribution Boards

Frame

Main busbar at top

	Version	Article No. www.siemens.com/ product?Article No.	PS
	③ Interior side uprights For width from 800 to 1200 mm		
	Depth in mm		
	400	8PQ3000-0BA65	1 unit
	600	8PQ3000-0BA01	1 unit
	800	8PQ3000-0BA02	1 unit
	④ Section division		
	Depth in mm		
	400	8PQ3000-1BA31	1 unit
	600	8PQ3000-1BA32	1 unit
	800	8PQ3000-1BA34	1 unit
	⑤ Exterior intermediate uprights For fitting <ul style="list-style-type: none"> • Outer covers • Section doors • Modular doors 	8PQ3000-1BA43	1 unit

SIVACON S4 Power Distribution Boards

Frame

Main busbar at bottom

Overview

Features

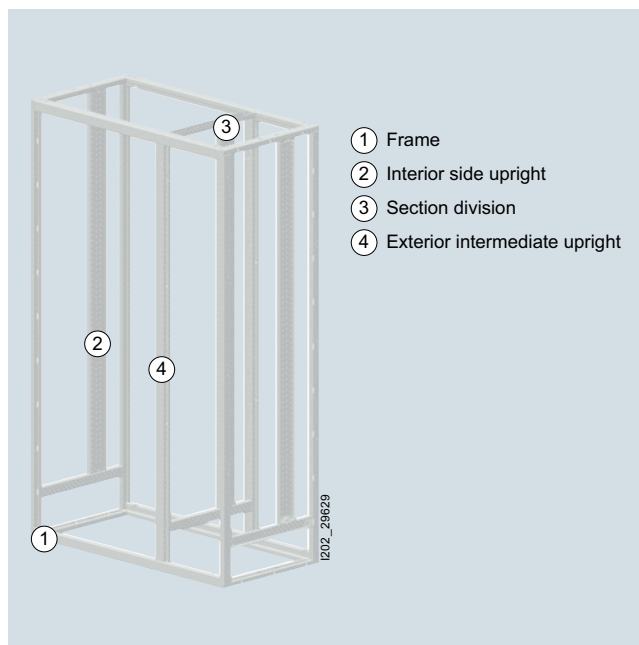
Standardized grid dimensions

- Frame divisions possible every 200 mm
- Assembly kits: 400, 600, 800 mm
- Cable compartments: 400, 600 mm
- Vertical busbar: 200, 400

Equipment height for assembly kits 1600 mm

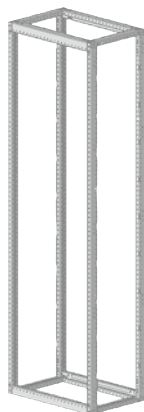
Configuration

Main busbar at bottom conditionally at least form 2b



Selection and ordering data

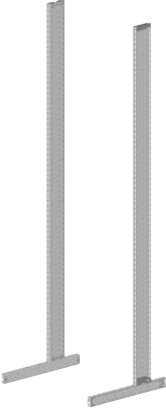
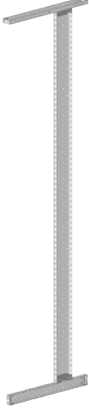
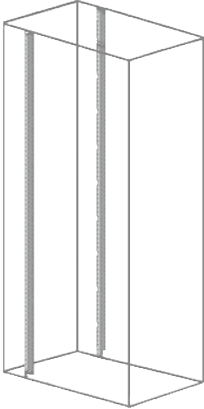
Version	Article No. www.siemens.com/ product?Article No.	PS																																																				
① Frame Height: 2000 mm																																																						
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	800	8PQ1202-8BA02	1 unit																																																			



SIVACON S4 Power Distribution Boards

Frame

Main busbar at bottom

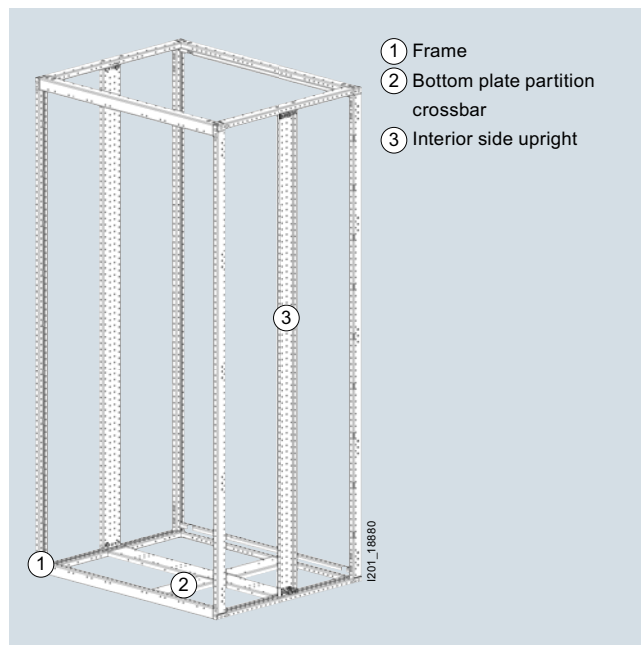
	Version	Article No. www.siemens.com/ product?Article.No.	PS
	② Interior side uprights		
	Depth in mm		
	400	8PQ3000-0BA10	1 unit
	600	8PQ3000-3BA10	1 unit
800	8PQ3000-3BA11	1 unit	
	③ Section division		
	Depth in mm		
	400	8PQ3000-0BA10	1 unit
	600	8PQ3000-3BA47	1 unit
800	8PQ3000-3BA48	1 unit	
	④ Exterior intermediate uprights	8PQ3000-1BA43	1 unit
	For fitting <ul style="list-style-type: none"> • Outer covers • Section doors • Modular doors 		

Overview

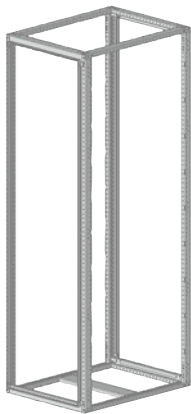
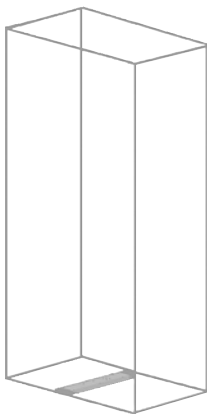
Features

Standardized section widths

- Frame divisions: possible every 200 mm
- Assembly kits: 400, 600 and 800 mm
- Cable compartments: 200, 400 mm
- Vertical busbar: 200, 400 mm



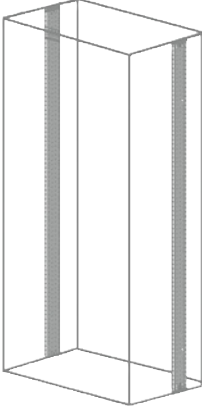
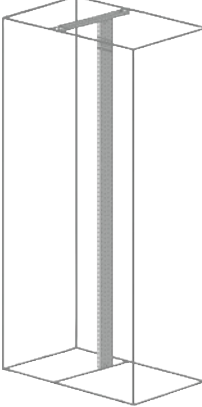
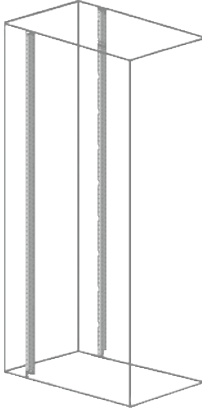
Selection and ordering data

Version		Article No. www.siemens.com/product?Article.No.	PS	
	① Frame Height: 2000 mm			
	Depth in mm	Width in mm		
	800	400	8PQ1204-8BA01	1 unit
		600	8PQ1206-8BA01	1 unit
		800	8PQ1208-8BA01	1 unit
		1000	8PQ1201-8BA03	1 unit
	1200	8PQ1202-8BA02	1 unit	
	② Bottom plate partition crossbars For width 600 to 1200 mm			
	Depth in mm	Quantity		
800	2 x	8PQ3000-1BA38	1 unit	




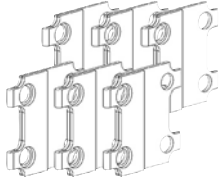
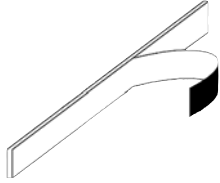



SIVACON S4 Power Distribution Boards

Frame

Main busbar at rear

	Version	Article No. www.siemens.com/ product?Article No.	PS	
	<p>③ Interior side uprights</p> <ul style="list-style-type: none"> • Equipment height: 1800 mm • For width from 400 to 1200 mm <p>Depth in mm</p> <p>800</p>	<p>8PQ3000-0BA03</p>	<p>1 unit</p>	
	<p>Section division</p> <p>Depth in mm</p> <p>800</p>		<p>8PQ3000-1BA37</p>	<p>1 unit</p>
	<p>Exterior intermediate uprights</p> <p>For fitting</p> <ul style="list-style-type: none"> • Outer covers • Section doors • Modular doors 			<p>8PQ3000-1BA43</p>

Selection and ordering data

	Version	Article No. www.siemens.com/ product?Article No.	PS																																																
	Frame reinforcements <ul style="list-style-type: none"> Recommended for frame widths from 1000 mm 1 set = 2 units 	8PQ9400-0BA35	1 unit																																																
	Crossbar <ul style="list-style-type: none"> 1 set = 2 units <p>Frame width</p> <table border="1"> <thead> <tr> <th>For frame width in mm</th> <th>Crossbar length in mm</th> <th>Article No.</th> <th>PS</th> </tr> </thead> <tbody> <tr> <td>400</td> <td>350</td> <td>8PQ3000-0BA12</td> <td>1 unit</td> </tr> <tr> <td>600</td> <td>550</td> <td>8PQ3000-0BA71</td> <td>1 unit</td> </tr> <tr> <td>800</td> <td>750</td> <td>8PQ3000-0BA72</td> <td>1 unit</td> </tr> <tr> <td>1000</td> <td>950</td> <td>8PQ3000-0BA84</td> <td>1/2 units</td> </tr> <tr> <td>1200</td> <td>1150</td> <td>8PQ3000-0BA85</td> <td>1/2 units</td> </tr> </tbody> </table> <p>Frame depth without side uprights ③</p> <table border="1"> <thead> <tr> <th>For frame depth in mm</th> <th>Crossbar length in mm</th> <th>Article No.</th> <th>PS</th> </tr> </thead> <tbody> <tr> <td>400</td> <td>300</td> <td>8PQ3000-0BA10</td> <td>1 unit</td> </tr> <tr> <td>600</td> <td>500</td> <td>8PQ3000-1BA24</td> <td>1/2 units</td> </tr> <tr> <td>800</td> <td>700</td> <td>8PQ3000-1BA25</td> <td>1/2 units</td> </tr> </tbody> </table> <p>Frame depth with side uprights ③</p> <table border="1"> <thead> <tr> <th>For frame depth in mm</th> <th>Crossbar length in mm</th> <th>Article No.</th> <th>PS</th> </tr> </thead> <tbody> <tr> <td>600</td> <td>300</td> <td>8PQ3000-0BA10</td> <td>1 unit</td> </tr> </tbody> </table>	For frame width in mm	Crossbar length in mm	Article No.	PS	400	350	8PQ3000-0BA12	1 unit	600	550	8PQ3000-0BA71	1 unit	800	750	8PQ3000-0BA72	1 unit	1000	950	8PQ3000-0BA84	1/2 units	1200	1150	8PQ3000-0BA85	1/2 units	For frame depth in mm	Crossbar length in mm	Article No.	PS	400	300	8PQ3000-0BA10	1 unit	600	500	8PQ3000-1BA24	1/2 units	800	700	8PQ3000-1BA25	1/2 units	For frame depth in mm	Crossbar length in mm	Article No.	PS	600	300	8PQ3000-0BA10	1 unit		
For frame width in mm	Crossbar length in mm	Article No.	PS																																																
400	350	8PQ3000-0BA12	1 unit																																																
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For frame depth in mm	Crossbar length in mm	Article No.	PS																																																
600	300	8PQ3000-0BA10	1 unit																																																
	Universal brackets <ul style="list-style-type: none"> For mounting expansion elements 	8MF1000-2CP	10 units																																																
	Board coupling kits <ul style="list-style-type: none"> 1 set = 6 units including fasteners 	8PQ1204-4BA05	1 unit																																																
	Board coupling gasket kits <ul style="list-style-type: none"> 5.5 m gasket roll included in delivery To maintain IP55 degree of protection 	8PQ1204-4BA04	1 unit																																																
	Self-tapping screws <ul style="list-style-type: none"> For use with frame and crossbars 																																																		
	Cylinder-head screws <table border="1"> <thead> <tr> <th>External diameter × length in mm</th> <th>Article No.</th> <th>PS</th> </tr> </thead> <tbody> <tr> <td>M6 × 10</td> <td>8PQ9500-0BA34</td> <td>1 unit</td> </tr> <tr> <td>M6 × 16</td> <td>8PQ9500-0BA32</td> <td>1 unit</td> </tr> <tr> <td>M6 × 20</td> <td>8PQ9500-0BA31</td> <td>1 unit</td> </tr> <tr> <td>Cap, RAL 7035</td> <td>8PQ9400-0BA14</td> <td>1 unit</td> </tr> </tbody> </table>	External diameter × length in mm	Article No.	PS	M6 × 10	8PQ9500-0BA34	1 unit	M6 × 16	8PQ9500-0BA32	1 unit	M6 × 20	8PQ9500-0BA31	1 unit	Cap, RAL 7035	8PQ9400-0BA14	1 unit																																			
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Cap, RAL 7035	8PQ9400-0BA14	1 unit																																																	
	Countersunk screws <table border="1"> <thead> <tr> <th>External diameter × length in mm</th> <th>Article No.</th> <th>PS</th> </tr> </thead> <tbody> <tr> <td>M6 × 12</td> <td>8PQ9500-1BA07</td> <td>1 unit</td> </tr> </tbody> </table>	External diameter × length in mm	Article No.	PS	M6 × 12	8PQ9500-1BA07	1 unit																																												
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SIVACON S4 Power Distribution Boards

Enclosure

Paneling sections

Overview



Selection and ordering data

Version	Article No. www.siemens.com/ product?Article No.	PS
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① Base corner pieces with front cover



Height in mm	Width in mm		
100	400	8PQ1014-0BA01	1 unit
	600	8PQ1016-0BA01	1 unit
	800	8PQ1018-0BA01	1 unit
	1000	8PQ1011-0BA01	1 unit
	1200	8PQ1012-0BA01	1 unit



Height in mm	Width in mm		
200	400	8PQ1024-0BA01	1 unit
	600	8PQ1026-0BA01	1 unit
	800	8PQ1028-0BA01	1 unit
	1000	8PQ1021-0BA01	1 unit
	1200	8PQ1022-0BA01	1 unit



Base covers, side

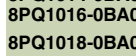
Height in mm	Depth in mm		
100	400	8PQ1010-4BA01	1 unit
	600	8PQ1010-6BA01	1 unit
	800	8PQ1010-8BA01	1 unit



Base reinforcements for transport

Height: 100 mm

Frame width or depth in mm			
400	8PQ1014-0BA02		1 unit
600	8PQ1016-0BA02		1 unit
800	8PQ1018-0BA02		1 unit
1000	8PQ1011-1BA01		1/2 units
1200	8PQ1012-2BA01		1/2 units



SIVACON S4 Power Distribution Boards

Enclosure

Paneling sections

Version	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS
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② Bottom plates

For a frame depth of 800 mm, the bottom plates with a depth of 400 mm are needed **twice**.

- Main busbar at top



Depth in mm	Width in mm	Quantity	IP55	IP40, for cable entry
400	200		8PQ2302-4BA04	1 unit
	400		8PQ2304-4BA05	1 unit
	600		8PQ2306-4BA05	1 unit
	800		8PQ2308-4BA05	1 unit
	1000		8PQ2301-4BA04	1 unit
600	200		8PQ2302-6BA04	1 unit
	400		8PQ2306-4BA05	1 unit
	600		8PQ2306-6BA05	1 unit
	800		8PQ2308-6BA05	1 unit
800	200	2 ×	8PQ2302-4BA04	1 unit
	400	2 ×	8PQ2304-4BA05	1 unit
	600	2 ×	8PQ2306-4BA05	1 unit
	800	2 ×	8PQ2308-4BA05	1 unit
	1000	2 ×	8PQ2301-4BA04	1 unit

- Main busbar at bottom



Depth in mm	Width in mm	IP20	
400	400	8PQ2304-4BA14	1 unit
	600	8PQ2306-4BA10	1 unit
	800	8PQ2308-4BA13	1 unit
	1000	8PQ2301-4BA06	1 unit
	1200	8PQ2302-4BA05	1 unit
600	400	8PQ2304-6BA11	1 unit
	600	8PQ2306-6BA16	1 unit
	800	8PQ2308-6BA13	1 unit
	1000	8PQ2301-6BA05	1 unit
	1200	8PQ2302-6BA05	1 unit
800	400	8PQ2304-8BA05	1 unit
	600	8PQ2306-8BA05	1 unit
	800	8PQ2308-8BA10	1 unit
	1000	8PQ2301-8BA04	1 unit
	1200	8PQ2302-8BA04	1 unit

SIVACON S4 Power Distribution Boards

Enclosure

Paneling sections

Version	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS
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③ Rear panels



Width in mm	IP40		IP55	
400	8PQ2420-4BA02	1 unit	8PQ2420-4BA01	1 unit
600	8PQ2420-6BA02	1 unit	8PQ2420-6BA01	1 unit
800	8PQ2420-8BA02	1 unit	8PQ2420-8BA01	1 unit
1000	8PQ2420-1BA02	1 unit	8PQ2420-1BA01	1 unit
1200	8PQ2420-2BA02	1 unit	8PQ2420-2BA01	1 unit

④ Side panels

1 set = 2 units



Depth in mm	IP55		IP55, with design strip	
400	8PQ2520-4BA02	1 unit	8PQ2520-4BA01	1 unit
600	8PQ2520-6BA02	1 unit	8PQ2520-6BA01	1 unit
800	8PQ2520-8BA02	1 unit	8PQ2520-8BA01	1 unit

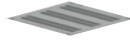
SIVACON S4 Power Distribution Boards

Enclosure

Paneling sections

Version	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS
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⑤ Top plates



Depth in mm	Width in mm	IP40		IPX1 upgrade		IP55		IP40, for cable entry	
400	400	8PQ2304-4BA02	1 unit	8PQ2304-4BA04	1 unit	8PQ2304-4BA01	1 unit	8PQ2304-4BA03	1 unit
	600	8PQ2306-4BA02	1 unit	8PQ2306-4BA04	1 unit	8PQ2306-4BA01	1 unit	8PQ2306-4BA03	1 unit
	800	8PQ2308-4BA02	1 unit	8PQ2308-4BA04	1 unit	8PQ2308-4BA01	1 unit	8PQ2308-4BA03	1 unit
	1000	8PQ2301-4BA02	1 unit	8PQ2301-4BA03	1 unit	8PQ2301-4BA01	1 unit	--	--
600	1200	8PQ2302-4BA02	1 unit	8PQ2302-4BA03	1 unit	8PQ2302-4BA01	1 unit	--	--
	400	8PQ2304-6BA02	1 unit	8PQ2304-6BA04	1 unit	8PQ2304-6BA01	1 unit	8PQ2304-6BA03	1 unit
	600	8PQ2306-6BA02	1 unit	8PQ2306-6BA04	1 unit	8PQ2306-6BA01	1 unit	8PQ2306-6BA03	1 unit
	800	8PQ2308-6BA02	1 unit	8PQ2308-6BA04	1 unit	8PQ2308-6BA01	1 unit	8PQ2308-6BA03	1 unit
800	1000	8PQ2301-6BA02	1 unit	8PQ2301-6BA03	1 unit	8PQ2301-6BA01	1 unit	--	--
	1200	8PQ2302-6BA02	1 unit	8PQ2302-6BA03	1 unit	8PQ2302-6BA01	1 unit	--	--
	400	8PQ2304-8BA02	1 unit	8PQ2304-8BA04	1 unit	8PQ2304-8BA01	1 unit	8PQ2304-8BA03	1 unit
	600	8PQ2306-8BA02	1 unit	8PQ2306-8BA04	1 unit	8PQ2306-8BA01	1 unit	8PQ2306-8BA03	1 unit
800	800	8PQ2308-8BA02	1 unit	8PQ2308-8BA04	1 unit	8PQ2308-8BA01	1 unit	8PQ2308-8BA03	1 unit
	1000	8PQ2301-8BA02	1 unit	8PQ2301-8BA03	1 unit	8PQ2301-8BA01	1 unit	--	--
	1200	8PQ2302-8BA02	1 unit	8PQ2302-8BA03	1 unit	8PQ2302-8BA01	1 unit	--	--

Selection and ordering data

Version	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS
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⑥ Doors with two-way interlocking system



Hinge position	Width in mm	IP40		IP55		IP55, glass doors	
Left	400	8PQ2197-4BA08	1 unit	8PQ2197-4BA05	1 unit	--	
	600	8PQ2197-6BA06	1 unit	8PQ2197-6BA03	1 unit	8PQ2197-6BA10	1 unit
	800	8PQ2197-8BA06	1 unit	8PQ2197-8BA03	1 unit	8PQ2197-8BA10	1 unit
	1000	8PQ2197-1BA06	1 unit	8PQ2197-1BA03	1 unit	8PQ2197-1BA10	1 unit
Right	400	8PQ2197-4BA11	1 unit	8PQ2197-4BA10	1 unit	--	
	600	8PQ2197-6BA13	1 unit	8PQ2197-6BA12	1 unit	8PQ2197-6BA14	1 unit
	800	8PQ2197-8BA13	1 unit	8PQ2197-8BA12	1 unit	8PQ2197-8BA14	1 unit
	1000	8PQ2197-1BA18	1 unit	8PQ2197-1BA17	1 unit	8PQ2197-1BA20	1 unit

Doors with rotary handle

Suitable for installing semi-cylindrical profiles (available separately), see www.siemens.com/industrymall



Hinge position	Width in mm	IP40		IP55		IP55, glass doors	
Left	400	8PQ2197-4BA06	1 unit	8PQ2197-4BA03	1 unit	--	
	600	8PQ2197-6BA04	1 unit	8PQ2197-6BA01	1 unit	8PQ2197-6BA07	1 unit
	800	8PQ2197-8BA04	1 unit	8PQ2197-8BA01	1 unit	8PQ2197-8BA07	1 unit
	1000	8PQ2197-1BA07	1 unit	8PQ2197-1BA04	1 unit	8PQ2197-1BA11	1 unit
Right	400	8PQ2197-4BA07	1 unit	8PQ2197-4BA04	1 unit	--	
	600	8PQ2197-6BA05	1 unit	8PQ2197-6BA02	1 unit	8PQ2197-6BA08	1 unit
	800	8PQ2197-8BA05	1 unit	8PQ2197-8BA02	1 unit	8PQ2197-8BA08	1 unit
	1000	8PQ2197-1BA08	1 unit	8PQ2197-1BA05	1 unit	8PQ2197-1BA12	1 unit

Outer covers

Covering for cable compartment or vertical busbar



Hinge position	Width in mm	IP40		IP55			
--	200	8PQ2197-2BA15	1 unit	8PQ2197-2BA14	1 unit		
	400	8PQ2197-4BA02	1 unit	8PQ2197-4BA01	1 unit		

Frame paneling

Only in conjunction with internal covers



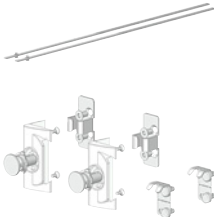


Hinge position	Width in mm	IP30					
--	600	8PQ2197-6BA11	1 unit				
	800	8PQ2197-8BA11	1 unit				

SIVACON S4 Power Distribution Boards

Enclosure






Paneling sections

	Version	Article No. www.siemens.com/ product?Article No.	PS
Accessories			
Flat cylinders/two-way interlocking mechanism			
Versions			
	Rotary handles with flat cylinder <ul style="list-style-type: none"> • Identical key type • Including key 	8PQ9400-0BA07	1 unit
	Rotary handles with two-way interlocking mechanism		
	Coupling bars	8PQ9400-0BA27	1 unit
	Locking rods		
	Bar guides	8PQ9400-0BA36	1 unit

SIVACON S4 Power Distribution Boards

Enclosure

Paneling sections

	Version	Article No. www.siemens.com/ product?Article No.	PS
	Semi-cylindrical profiles Versions Rotary handles with semi-cylindrical profile	8PQ9400-0BA41	1 unit
	Coupling bars	8PQ9400-0BA28	1 unit
	Locking rods	8PQ9400-0BA38	1 unit
	Bar guides	8PQ9400-0BA36	1 unit
	Semi-cylindrical profiles <ul style="list-style-type: none"> • Acc. to DIN 18252/18254 • 8 × 45° adjustable • Identical key type (key number 333) • Including key 	8PQ9400-0BA26	1 unit
 Door hinges 1 set = 2 units	8PQ9400-0BA55	1/2 units	
 Cubicle keys <ul style="list-style-type: none"> • 3 mm double bit • 1 pack = 10 units 	8PQ9400-0BA12	1 unit	
 Inner door struts <ul style="list-style-type: none"> • For use with section doors • Height 1975 mm 	8PQ2197-0BA10	1 unit	
 Cubicle ID plates SIVACON designed by Siemens	8PQ9400-0BA06	1 unit	

SIVACON S4 Power Distribution Boards

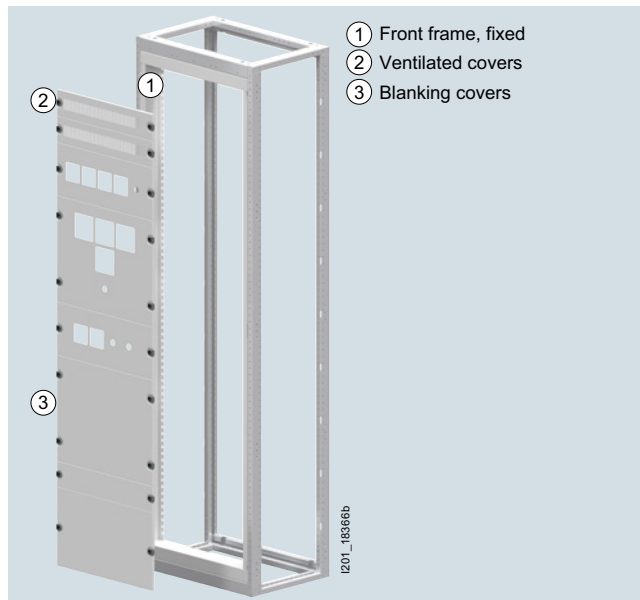
Enclosure

Internal covers

Overview

Configuration

- Can be combined with section doors and glazed doors and also frame paneling
- Internal covers not available in combination with modular doors
- Degree of protection: IP30 with door open or front frame



Selection and ordering data

Version	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS
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Front frames

① Without main busbar

Equipment height: 1800 mm



Width in mm	Fixed	PS	Swivel	PS
600	8PQ2000-6BA04	1 unit	8PQ2000-6BA01	1 unit
800	8PQ2000-8BA04	1 unit	8PQ2000-8BA01	1 unit

Main busbar at top

Equipment height: 1600 mm



Width in mm	Fixed	PS	Swivel	PS
600	8PQ2000-6BA03	1 unit	8PQ2000-6BA02	1 unit
800	8PQ2000-8BA03	1 unit	8PQ2000-8BA02	1 unit

Covers

② Covers, ventilated






Height mm	Width mm	Article No.	PS
100	600	8PQ2010-6BA02	1 unit
	800	8PQ2010-8BA02	1 unit

SIVACON S4 Power Distribution Boards

Enclosure

Internal covers

Version		Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS
③ Blanking covers					
					
Height mm	Width mm	Blanking cover			
50	600	8PQ2005-6BA01	1 unit		
100		8PQ2010-6BA01	1 unit		
150		8PQ2015-6BA02	1 unit		
200		8PQ2020-6BA01	1 unit		
250		8PQ2025-6BA01	1 unit		
300		8PQ2030-6BA01	1 unit		
350		8PQ2035-6BA01	1 unit		
400		8PQ2040-6BA01	1 unit		
500		8PQ2050-6BA01	1 unit		
550		8PQ2055-6BA01	1 unit		
600		8PQ2060-6BA01	1 unit		
650		8PQ2065-6BA01	1 unit		
800		8PQ2080-6BA01	1 unit		
50	800	8PQ2005-8BA01	1 unit		
100		8PQ2010-8BA01	1 unit		
150		8PQ2015-8BA02	1 unit		
200		8PQ2020-8BA01	1 unit		
250		8PQ2025-8BA01	1 unit		
300		8PQ2030-8BA01	1 unit		
350		8PQ2035-8BA01	1 unit		
400		8PQ2040-8BA01	1 unit		
500		8PQ2050-8BA01	1 unit		
550		8PQ2055-8BA01	1 unit		
600		8PQ2060-8BA01	1 unit		
650		8PQ2065-8BA01	1 unit		
800		8PQ2080-8BA01	1 unit		
Accessories					
		Hinges for cover • Hinge position: left/right • 1 pack = 10 units	8GK9120-0KK11	10 units	
		1/4 turn screws • 1 pack = 20 units	8PQ9400-0BA54	1/20 units	

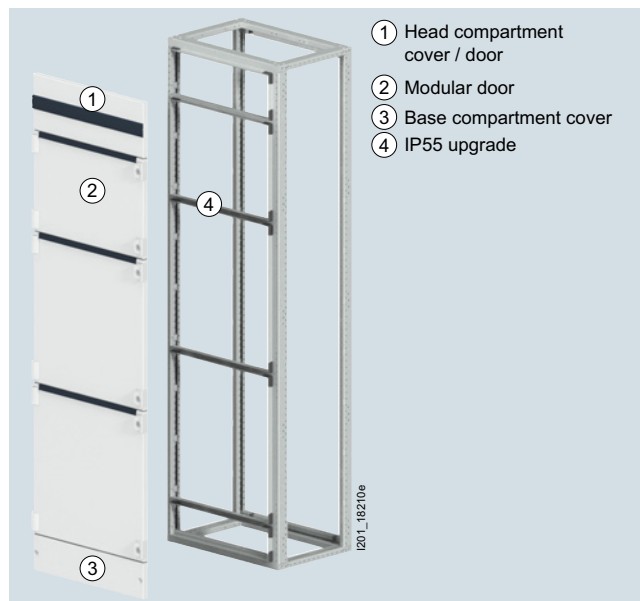
SIVACON S4 Power Distribution Boards Enclosure

Modular doors

Overview

Configuration

- Modular doors cannot be combined with internal covers
- For load capacity of the doors, see [Technical Specifications](#), page 16/8.



Selection and ordering data

Version	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS
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Paneling for main busbar

① Head compartment covers



- For main busbar at top

Width mm	Height mm	IP4X		IP55 upgrade	
400	225	8PQ2022-4BA01	1 unit	8PQ2022-4BA03	1 unit
600		8PQ2022-6BA01	1 unit	8PQ2022-6BA02	1 unit
800		8PQ2022-8BA01	1 unit	8PQ2022-8BA02	1 unit

- For main busbar at bottom

Width mm	Height mm	IP4X		IP55 upgrade	
400	175	8PQ2000-4BA02	1 unit	8PQ2022-4BA03	1 unit
600		8PQ2000-6BA08	1 unit	8PQ2022-6BA02	1 unit
800		8PQ2000-8BA08	1 unit	8PQ2022-8BA02	1 unit

Head compartment doors



Width mm	Height mm	IP4X		IP55 upgrade	
400	225	8PQ2022-4BA04	1 unit	8PQ2022-4BA03	1 unit
	725	8PQ2072-4BA02	1 unit	8PQ2070-4BA06	1 unit
600	225	8PQ2022-6BA04	1 unit	8PQ2022-6BA02	1 unit
	725	8PQ2072-6BA01	1 unit	8PQ2070-6BA11	1 unit
800	225	8PQ2022-8BA03	1 unit	8PQ2022-8BA02	1 unit

SIVACON S4 Power Distribution Boards

Enclosure

Modular doors

Version	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS
---------	--	----	--	----

Compartment paneling

② Modular doors



Width mm	Height mm	IP4X		IP55 upgrade		
400	150	8PQ2015-4BA04	1 unit	8PQ2015-4BA05	1 unit	
	200	8PQ2020-4BA01	1 unit	8PQ2020-4BA03	1 unit	
	250	8PQ2025-4BA01	1 unit	8PQ2025-4BA02	1 unit	
	300	8PQ2030-4BA01	1 unit	8PQ2030-4BA02	1 unit	
	350	8PQ2035-4BA01	1 unit	8PQ2035-4BA02	1 unit	
	400	8PQ2040-4BA01	1 unit	8PQ2040-4BA03	1 unit	
	450	8PQ2045-4BA01	1 unit	8PQ2045-4BA02	1 unit	
	500	8PQ2050-4BA01	1 unit	8PQ2050-4BA02	1 unit	
	550	8PQ2055-4BA11	1 unit	8PQ2055-4BA07	1 unit	
	600	8PQ2060-4BA01	1 unit	8PQ2060-4BA03	1 unit	
	650	8PQ2065-4BA01	1 unit	8PQ2065-4BA02	1 unit	
	700	8PQ2070-4BA07	1 unit	8PQ2070-4BA08	1 unit	
	750	8PQ2072-4BA01	1 unit	8PQ2075-4BA01	1 unit	
	800	8PQ2080-4BA01	1 unit	8PQ2080-4BA04	1 unit	
	600	150	8PQ2015-6BA10	1 unit	8PQ2015-6BA12	1 unit
		200	8PQ2020-6BA14	1 unit	8PQ2020-6BA15	1 unit
250		8PQ2025-6BA07	1 unit	8PQ2025-6BA08	1 unit	
300		8PQ2030-6BA10	1 unit	8PQ2030-6BA12	1 unit	
350		8PQ2035-6BA12	1 unit	8PQ2035-6BA13	1 unit	
400		8PQ2040-6BA12	1 unit	8PQ2040-6BA13	1 unit	
450		8PQ2045-6BA05	1 unit	8PQ2045-6BA06	1 unit	
500		8PQ2050-6BA03	1 unit	8PQ2050-6BA04	1 unit	
550		8PQ2055-6BA04	1 unit	8PQ2055-6BA06	1 unit	
600		8PQ2060-6BA06	1 unit	8PQ2060-6BA07	1 unit	
650		8PQ2065-6BA03	1 unit	8PQ2065-6BA04	1 unit	
700		8PQ2070-6BA03	1 unit	8PQ2070-6BA04	1 unit	
750		8PQ2075-6BA01	1 unit	8PQ2075-6BA02	1 unit	
800		8PQ2080-6BA03	1 unit	8PQ2080-6BA04	1 unit	
800		150	8PQ2015-8BA05	1 unit	8PQ2015-8BA07	1 unit
		200	8PQ2020-8BA07	1 unit	8PQ2020-8BA08	1 unit
	250	8PQ2025-8BA04	1 unit	8PQ2025-8BA05	1 unit	
	300	8PQ2030-8BA05	1 unit	8PQ2030-8BA06	1 unit	
	350	8PQ2035-8BA06	1 unit	8PQ2035-8BA07	1 unit	
	400	8PQ2040-8BA12	1 unit	8PQ2040-8BA13	1 unit	
	450	8PQ2045-8BA03	1 unit	8PQ2045-8BA04	1 unit	
	500	8PQ2050-8BA03	1 unit	8PQ2050-8BA04	1 unit	
	550	8PQ2055-8BA03	1 unit	8PQ2055-8BA06	1 unit	
	600	8PQ2060-8BA04	1 unit	8PQ2060-8BA05	1 unit	
	650	8PQ2065-8BA03	1 unit	8PQ2065-8BA04	1 unit	
	700	8PQ2070-8BA01	1 unit	8PQ2070-8BA02	1 unit	
	750	8PQ2075-8BA01	1 unit	8PQ2075-8BA02	1 unit	
	800	8PQ2080-8BA03	1 unit	8PQ2080-8BA04	1 unit	

Modular cover



Width mm	Height mm	IP4X		IP55 upgrade	
400	50	8PQ2005-4BA03	1 unit	8PQ2005-4BA01	1 unit
	100	8PQ2010-4BA02	1 unit	8PQ2010-4BA01	1 unit
600	50	8PQ2005-6BA04	1 unit	8PQ2005-6BA03	1 unit
	100	8PQ2010-6BA04	1 unit	8PQ2010-6BA03	1 unit
800	50	8PQ2005-8BA04	1 unit	8PQ2005-8BA03	1 unit
	100	8PQ2010-8BA04	1 unit	8PQ2010-8BA03	1 unit

SIVACON S4 Power Distribution Boards

Enclosure

Modular doors

Version	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS
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Paneling for PE bar

③ Base compartment covers

- Compartment height base compartment = cover height + 25 mm floor clearance



Width mm	Height mm	IP4X		IP55 upgrade	
400	150	8PQ2015-4BA01	1 unit	8PQ2015-4BA03	1 unit
600		8PQ2000-6BA07	1 unit	8PQ2015-6BA13	1 unit
800		8PQ2000-8BA07	1 unit	8PQ2015-8BA08	1 unit

Base compartment doors

- Compartment height base compartment = door height + 25 mm floor clearance



Width mm	Height mm	IP4X		IP55 upgrade	
400	700	8PQ2070-4BA01	1 unit	8PQ2070-4BA05	1 unit
600		8PQ2070-6BA05	1 unit	8PQ2070-6BA10	1 unit

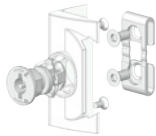
Accessories



Door hinges

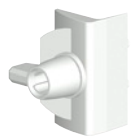
- 1 set = 2 units

8PQ9400-0BA55 1/2 units



Door locks with two-way interlocking mechanism

8PQ9400-0BA40 1 unit



Handles for modular door

Version

- Standard
- Lockable
 - Flat cylinders
 - Identical key type
 - Including key

8PQ9400-0BA73
8PQ9400-0BA72



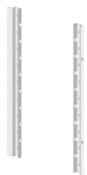
ID strips

- 1 pack = 6 units

Width in mm

400
600
800

8PQ5000-3BA42 1/6 units
8PQ5000-3BA43 1/6 units
8PQ5000-3BA46 1 unit



Inner door struts

- 1 pair = 2 units

Height in mm

400
550
600/625
700/725
800

8PQ2040-0BA06 1 unit
8PQ2055-0BA05 1 unit
8PQ2060-0BA14 1 unit
8PQ2070-0BA02 1 unit
8PQ2080-0BA07 1 unit



Cubicle keys

- 3 mm double bit
- 1 pack = 10 units

8PQ9400-0BA12 1 unit



Overview

Features

- Appropriate scaling of rated currents, matched to standard transformers
- Division of the phases into bars enables installation without the need to drill holes and increased current carrying capacity
- Simplified handling of one or more cubicles

Configuration

- Compatible network configurations TN-C, TN-S, IT and TT

	Type	Positioning	Equipment height mm	Rated current A	Frame depth mm	Rated impulse withstand voltage U_{imp} kV	
	Top	--	1600	Up to 3200	400	8	
		Front		1600	Up to 3200	600	12
				1600	Up to 3200	800	12
		On two sides	1600	Up to 4000	800	12	
		Rear	--	1800	Up to 3200	800	8

SIVACON S4 Power Distribution Boards

Busbar Systems

Main busbar

Main busbar top and bottom

Number of bars per phase	Cross-section mm	Rated operational current I_e ¹⁾					
		Section depth 400 mm		Section depth 600 mm		Section depth 800 mm	
		IP ≤ IP41	IP55	IP ≤ IP41	IP55	IP ≤ IP41	IP55
2	20 × 10 30 × 10	1190 1630	965 1310	1190 1630	965 1310	1190 1630	965 1310
4	20 × 10 30 × 10 40 × 10 50 × 10	1920 2470 3010 3270	1480 1870 2250 2450	1920 2490 3040 3320	1540 1950 2350 2570	1930 2510 3100 3410	1650 2110 2560 2820
2 × 4	20 × 10 30 × 10	--	--	--	--	3700 4660	3000 3680

Main busbar at rear

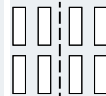
Number of bars per phase	Cross-section mm	Rated operational current I_e ¹⁾	
		Section depth 800 mm	
		IP ≤ IP41	IP55
2	20 × 10 30 × 10	1190 1630	965 1310
4	20 × 10 30 × 10 40 × 10 50 × 10	1930 2510 3100 3410	1650 2110 2560 2820

¹⁾ With an ambient temperature of 35 °C (average over 24 hours) and 500 W power loss per section.

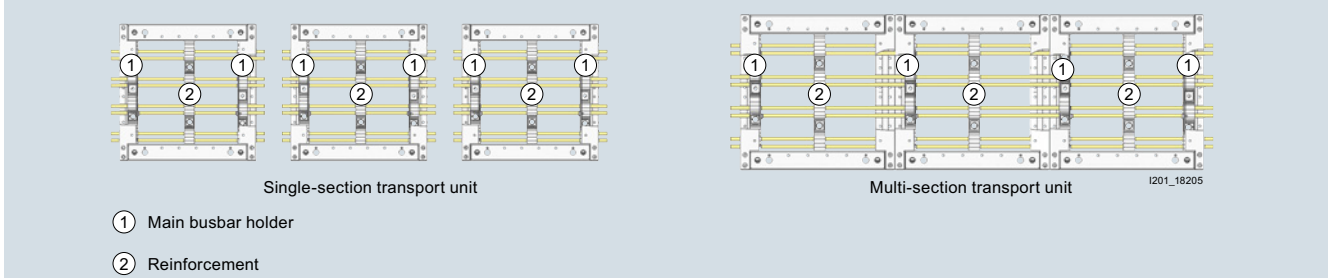
PE bar cross-section

Depends on the external conductors in accordance with IEC 61439-1, Para. 8.4.3.2.2 Table 5.





Number of bars per phase PE bar	Cross-section PE bar mm	Number of bars per phase Main busbar	Cross-section Main busbar mm
2	20 × 5 20 × 5	2	20 × 10 30 × 10
	20 × 5 30 × 5 40 × 5 30 × 10	4	20 × 10 30 × 10 40 × 10 50 × 10
	40 × 5 30 × 10	2 × 4	20 × 10 30 × 10



Required busbar reinforcements



- The number of reinforcements ② depends on the short-circuit currents and frame widths
- Correct configuration is automatically performed in SIMARIS configuration
- Further information is available in the [SIVACON S4 Manual](#).

Busbar size Number of bars per phase	Dimensions mm	Section width mm	Number of reinforcements ② as a function of I_{pk} , I_{cw} and section width					
			$I_{cw} = 25 \text{ kA}$ $I_{pk} = 52.5 \text{ kA}$	$I_{cw} = 35 \text{ kA}$ $I_{pk} = 73.5 \text{ kA}$	$I_{cw} = 50 \text{ kA}$ $I_{pk} = 105 \text{ kA}$	$I_{cw} = 65 \text{ kA}$ $I_{pk} = 143 \text{ kA}$	$I_{cw} = 85 \text{ kA}$ $I_{pk} = 187 \text{ kA}$	$I_{cw} = 100 \text{ kA}$ $I_{pk} = 220 \text{ kA}$
2 	20 × 10	350	0	0	--	--	--	--
		400	0	0				
		600	0	0				
		800	1	1				
		850	1	1				
		1000	1	1				
		1200	2	2				
		30 × 10	350	--	0	0		
	400			0	1			
	600			0	1			
	800			1	1			
	850			1	1			
	1000			1	2			
	4 	20 × 10	350		0	0	0	
400				0	0	0		
600				0	0	1		
800				1	1	2		
850				1	1	2		
1000				2	2	3		
1200				2	2	3		
30 × 10			350		0	0	0	0
		400		0	0	0	0	
		600		0	0	1	1	
		800		1	1	2	2	
		850		1	1	2	2	
		1000		2	2	3	3	
4 × 4 		20 × 10	350		--	0	0	0
	400				0	0	0	0
	600				0	0	1	1
	800				1	1	2	2
	850				1	1	2	3
	1000				1	1	3	3
	1200				2	2	3	4
	50 × 10		350			0	0	0
		400			0	0	0	0
		600			0	0	1	1
		800			1	1	2	2
		850			1	1	2	3
		1000			1	1	3	3
	2 × 4 	20 × 10	350			--	0	0
400						0	0	0
600						2 × 1	2 × 1	2 × 1
800						2 × 2	2 × 2	2 × 2
850						2 × 3	2 × 3	2 × 3
1000						2 × 3	2 × 3	2 × 3
1200						2 × 4	2 × 4	2 × 4
30 × 10			350				0	0
		400				0	0	0
		600				2 × 1	2 × 1	2 × 1
		800				2 × 2	2 × 2	2 × 2
		850				2 × 3	2 × 3	2 × 3
		1000				2 × 3	2 × 3	2 × 3
1200					2 × 4	2 × 4	2 × 4	


SIVACON S4 Power Distribution Boards

Busbar Systems

Main busbar

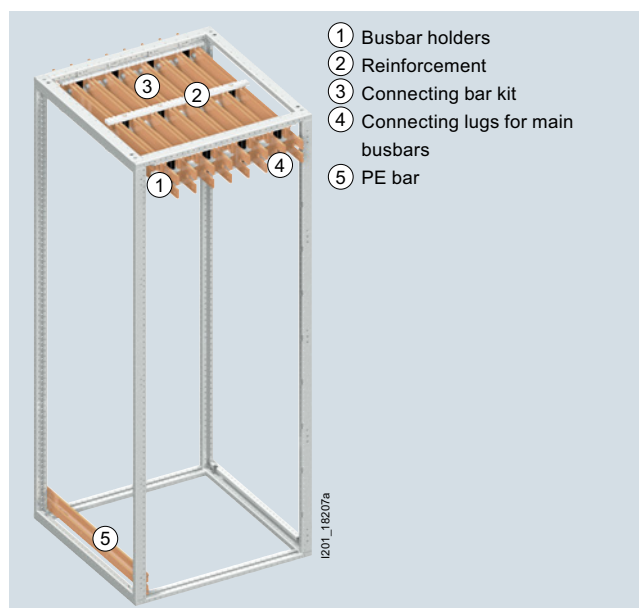
Features

- Compatible busbar profiles


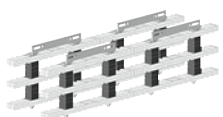
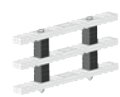
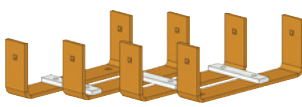
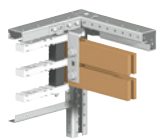

	20 × 10
	30 × 10
	40 × 10
	50 × 10

Configuration

Number of required reinforcements ② as a function of frame widths and rated short-time withstand current.



Selection and ordering data

	Version	Busbar cross-section mm × mm	Article No. www.siemens.com/ product?Article No.	PS
Main busbar at top				
	① Busbar holders <ul style="list-style-type: none"> Up to 3200 A With PE bar connection to frame 1 set = 2 units 	20 × 10 30 × 10 40 × 10 50 × 10	8PQ4000-0BA04	1 unit
	Busbar holder <ul style="list-style-type: none"> > 3200 A With PE bar connection to frame 1 set = 2 units 	20 × 10 30 × 10 40 × 10 50 × 10	8PQ4000-0BA60	1 unit
	② Reinforcements	20 × 10 30 × 10 40 × 10 50 × 10	8PQ4000-0BA37	1 unit
	③ Connecting bar kits <ul style="list-style-type: none"> For busbar holders >3200 Without fasteners 	--	8PQ4000-0BA62	1 unit
	Frame ground PEN <ul style="list-style-type: none"> For grounding the frame with PEN systems One PE jumper is needed for each frame Without fasteners 1 pack = 10 units 	--	8PQ4000-0BA12	1 unit
	Arcing fault barriers <ul style="list-style-type: none"> Length of internal arc at main busbar up to 300 ms One needed for each side panel 1 set = 2 units 	20 × 10 30 × 10 40 × 10 50 × 10	8PQ9400-0BA21	1/2 units

Main busbar at bottom

Features

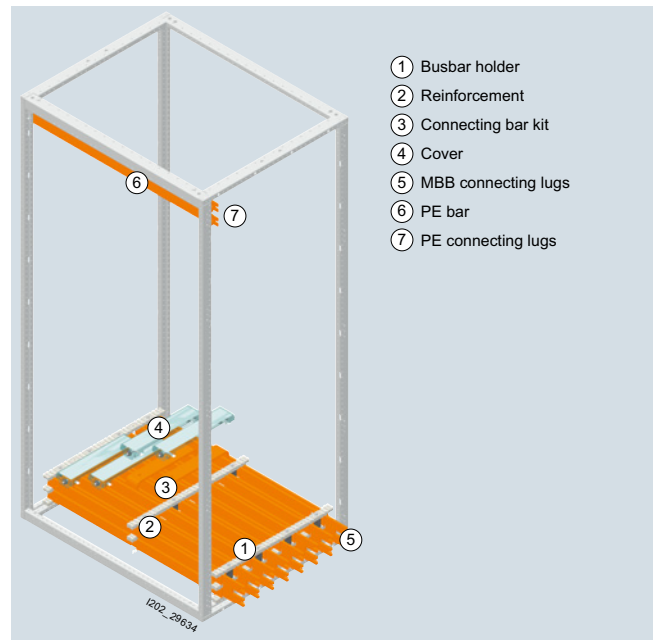
- Compatible busbar profiles





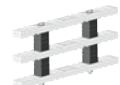


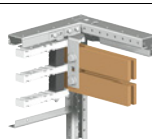

- Up to 3200 A rated current

Configuration

- Main busbar at bottom conditionally at least form 2b
- Number of required reinforcements ② as a function of frame widths and rated short-time withstand current.



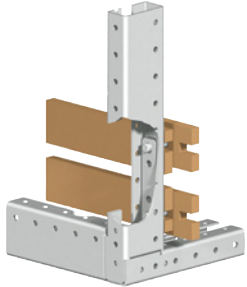
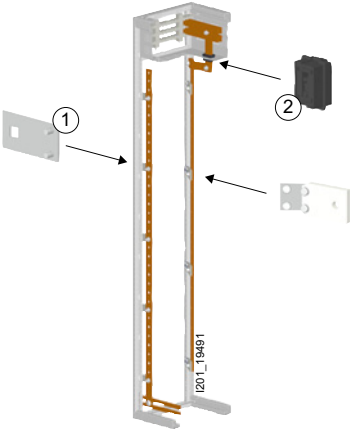
Selection and ordering data

	Version	Busbar cross-section mm × mm	Article No. www.siemens.com/ product?Article No.	PS
Main busbar at bottom				
	① Busbar holders <ul style="list-style-type: none"> Up to 3200 A With PE bar connection to frame 1 set = 2 units 	20 × 10 30 × 10 40 × 10 50 × 10	8PQ4000-0BA04	1 unit
	Busbar holder <ul style="list-style-type: none"> > 3200 A With PE bar connection to frame 1 set = 2 units 	20 × 10 30 × 10 40 × 10 50 × 10	8PQ4000-0BA60	1 unit
	② Reinforcements	20 × 10 30 × 10 40 × 10 50 × 10	8PQ4000-0BA37	1 unit
	③ Connecting bar kits <ul style="list-style-type: none"> For busbar holders >3200 Without fasteners 	--	8PQ4000-0BA62	1 unit
	④ Covers <ul style="list-style-type: none"> For connecting bar kits One cover per conductor 	--	8PQ4000-1BA25	1 unit
	Frame ground PEN <ul style="list-style-type: none"> For grounding the frame with PEN systems One PE jumper is needed for each frame Without fasteners 1 pack = 10 units 	--	8PQ4000-0BA12	1 unit
	Arcing fault barriers <ul style="list-style-type: none"> Needed for arcing duration of between 100 ms and 300 ms. One needed for each side panel 1 set = 2 units 	20 × 10 30 × 10 40 × 10 50 × 10	8PQ9400-0BA21	1/2 units

SIVACON S4 Power Distribution Boards

Busbar Systems

Main busbar

	Version	Busbar cross-section mm x mm	Article No. www.siemens.com/ product?Article No.	PS
PE bar				
	<p>Frame connection 1 pack = 6 units</p> <p>Note The PE bar connection to the frame is included in the holder kit for the main busbar.</p>	--	8PQ4000-0BA82	1 unit
	<p>① PE connection Set contains 5 lugs for fixing the busbar.</p> <p>② N / PEN connection As well as 4 mounted, insulated holders, the set contains two terminals for implementing separation 2B to the main busbar.</p>		8PQ4000-2BA22	1 unit
			8PQ4000-2BA23	1 set

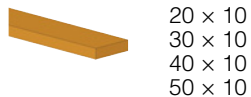
SIVACON S4 Power Distribution Boards

Busbar Systems

Main busbar

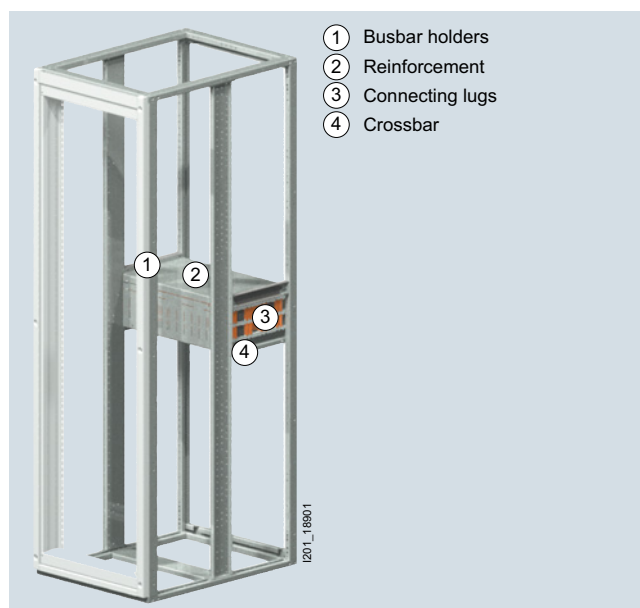
Features


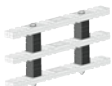


- Compatible busbar profiles



Configuration

Number of required reinforcements ② as a function of frame widths and rated short-time withstand current.



	Version	Busbar cross-section mm × mm	Article No. www.siemens.com/ product?Article No.	PS
Main busbar at rear				
	① Busbar holders <ul style="list-style-type: none"> Up to 3200 A With PE bar connection to frame 1 set = 2 units 	20 × 10 30 × 10 40 × 10 50 × 10	8PQ4000-0BA04	1 unit
	② Reinforcements Horizontal bar arrangement	20 × 10 30 × 10 40 × 10 50 × 10	8PQ4000-0BA37	1 unit
	④ Crossbars <ul style="list-style-type: none"> Depth 400 mm 1 set = 2 units 	--	8PQ3000-0BA10	1 unit
	PEN jumpers <ul style="list-style-type: none"> For main busbar at rear 		8PQ4000-2BA24	1 set

SIVACON S4 Power Distribution Boards

Busbar Systems

Vertical busbar

Overview

- The number of busbar holders depends on the short-circuit currents and frame widths
- Correct configuration is automatically performed in SIMARIS configuration
- Further information is available in the [SIVACON S4 Manual](#).

Vertical busbar, cascaded

Number of bars per phase	Dimensions mm	Rated operational current $I_e^{(1)}$		Required busbar holders			
		IP ≤ IP41	IP55	$I_{cw} = 25 \text{ kA}$ $I_{pk} = 52.5 \text{ kA}$	$I_{cw} = 35 \text{ kA}$ $I_{pk} = 73.5 \text{ kA}$	$I_{cw} = 50 \text{ kA}$ $I_{pk} = 105 \text{ kA}$	$I_{cw} = 65 \text{ kA}$ $I_{pk} = 143 \text{ kA}$
1	30 × 10 40 × 10	910 1100	830 980	4 4	4 4	-- --	-- --
2	30 × 10 40 × 10	1520 1640	1330 1330	4 4	4 4	4 4	6 6
2 × 2	30 × 10 40 × 10	3040 3280	2660 2660	-- --	-- --	2 × 4 2 × 4	2 × 6 2 × 6

¹⁾ With an ambient temperature of 35 °C (average over 24 hours, power loss 500 W per section and 95 K excess temperature)

Values of assumed loading

Acc. to IEC 61439-2, Table 101

Type of load	Assumed loading factor
Distribution - 2 and 3 circuits	0.9
Distribution - 4 and 5 circuits	0.8
Distribution - 6 and 9 circuits	0.7
Distribution - 10 or more circuits	0.6
Electric actuator	0.2
Motors ≤ 100 kW	0.8
Motors > 100 kW	1

Vertical busbars, non-cascaded

Number of bars per phase	Dimensions mm	Rated operational current I_e ¹⁾		② Reinforcements					
		IP ≤ IP41	IP55	$I_{cw} = 25 \text{ kA}$ $I_{pk} = 52 \text{ kA}$	$I_{cw} = 35 \text{ kA}$ $I_{pk} = 73 \text{ kA}$	$I_{cw} = 50 \text{ kA}$ $I_{pk} = 105 \text{ kA}$	$I_{cw} = 65 \text{ kA}$ $I_{pk} = 143 \text{ kA}$	$I_{cw} = 85 \text{ kA}$ $I_{pk} = 187 \text{ kA}$	$I_{cw} = 100 \text{ kA}$ $I_{pk} = 220 \text{ kA}$
2	20 × 10	1010	830	2	2	--	--	--	--
	30 × 10	1360	1110	2	2	3	--	--	--
4	20 × 10	1570	1260	2	2	3	4	--	--
	30 × 10	1930	1580	2	2	3	4	4	--
2 × 4	40 × 10	2300	1880	2	2	2	2	4	4
	50 × 10	2490	2030	2	2	2	2	4	4
2 × 4	20 × 10	3140	2520	2 × 2	2 × 2	2 × 3	2 × 4	--	--
	30 × 10	3860	3160	2 × 2	2 × 2	2 × 3	2 × 4	2 × 4	--
2 × 4	40 × 10	4600	3760	2 × 2	2 × 2	2 × 3	2 × 2	2 × 4	2 × 4
	50 × 10	4980	4060	2 × 2	2 × 2	2 × 3	2 × 2	2 × 4	2 × 4

¹⁾ With an ambient temperature of 35 °C (average over 24 hours) and 500 W power loss per section.

SIVACON S4 Power Distribution Boards

Busbar Systems

Vertical busbar

Selection and ordering data

Cascaded

Features

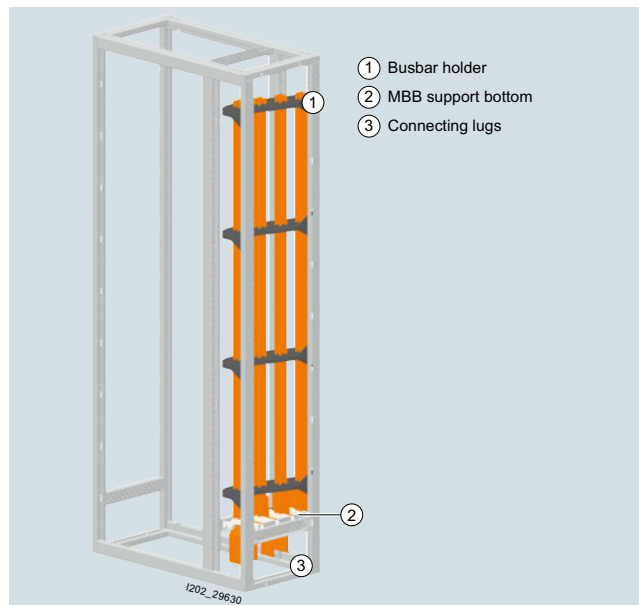
- For mounting on main busbar, top
- Compatible busbar profiles







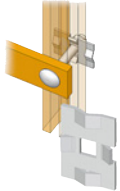



30 × 10
40 × 10

Configuration

- Number of required busbar holders ① depends on the rated short-time withstand current.



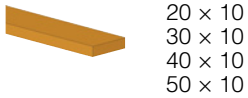
Assembly kits

	Version	Article No. www.siemens.com/ product?Article No.	PS
Cascaded			
	① Busbar holders Compartment width mm 200	Busbar dimensions mm × mm 30 × 10  Flat copper 40 × 10  Flat copper	8PQ4000-0BA32 1 unit 8PQ4000-0BA63 1 unit
		② Copper supports • For main busbar at bottom	8PQ4000-1BA23 1 unit
		Busbar clamps • For use with flat copper connection • For M10 screw • 1 pack = 20 units	8PQ9400-0BA02 1 unit
	Square screws • For use with busbar clamp • 1 pack = 50 units External diameter × length in mm	M10 × 35 8PQ9500-0BA14 1 unit M10 × 45 8PQ9500-0BA16 1 unit M10 × 55 8PQ9500-1BA36 1 unit M10 × 65 8PQ9500-1BA25 1 unit	
	Clamping washers DIN 6796 1 pack = 50 units Screw type	M10 8PQ9500-0BA60 1 unit	
	Hexagonal nuts ISO 4032 1 pack = 50 units External diameter	M10 8PQ9500-0BA05 1 unit	

Non-cascaded

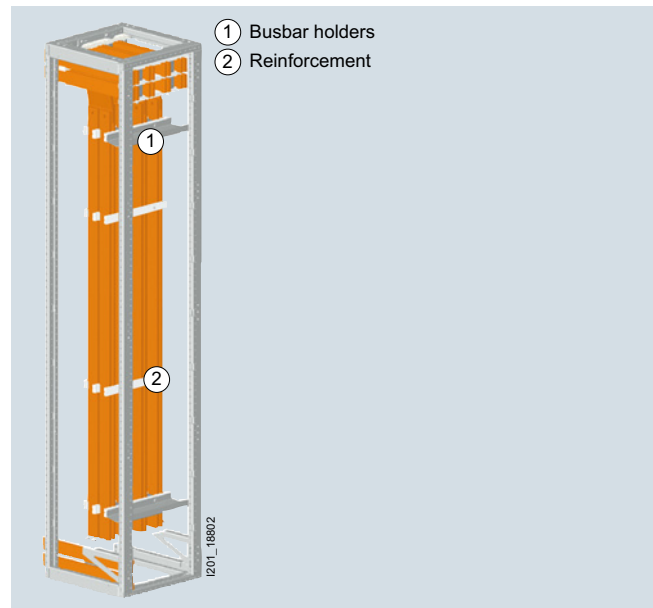
Features

- For mounting on main busbar, top
- Compatible busbar profiles



Configuration

- Number of required busbar holders ② depends on the rated short-time withstand current.



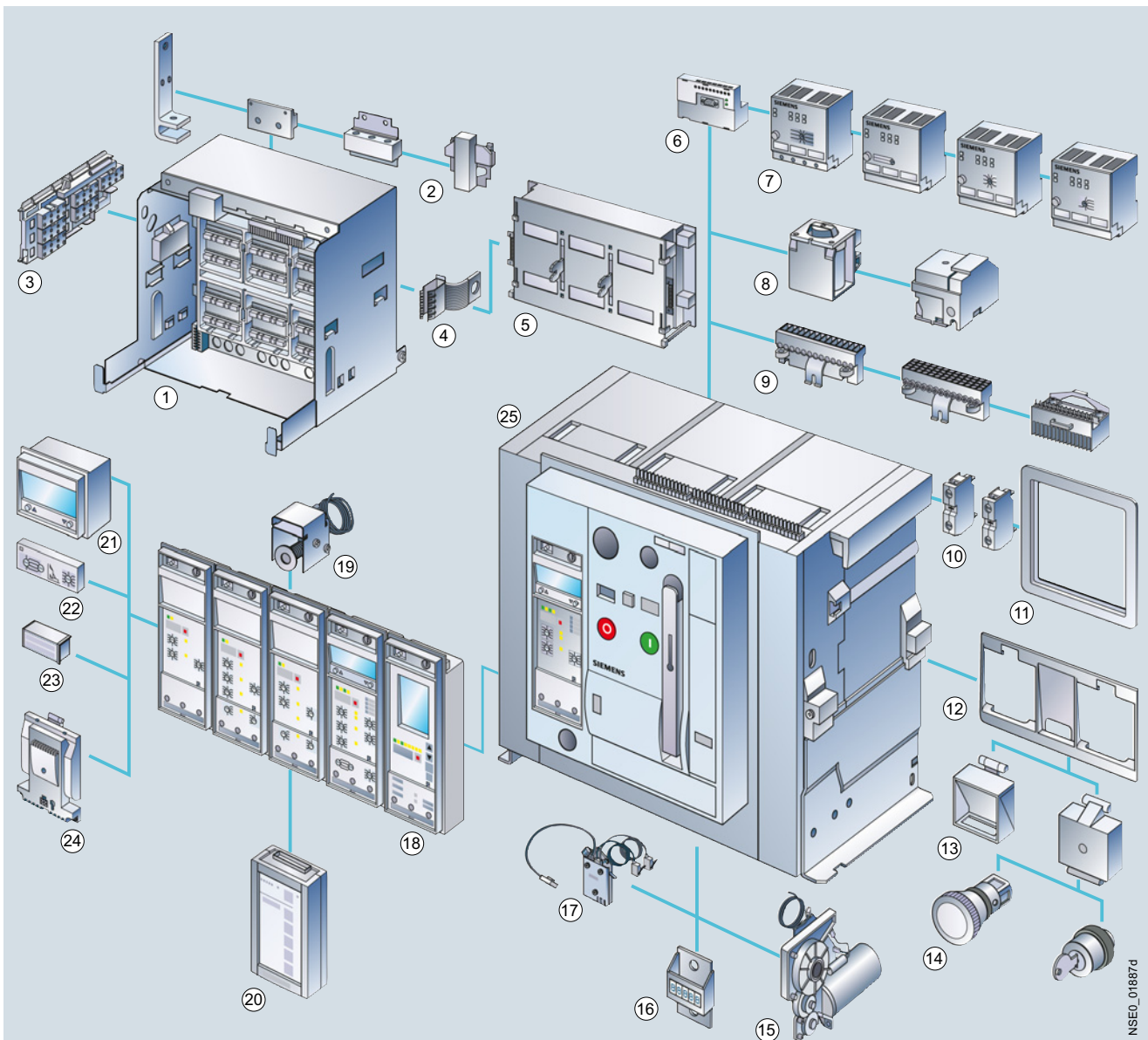
		Version	Article No. www.siemens.com/ product?Article No.	PS			
Non-cascaded							
	① Busbar holders 1 set = 2 units						
	Compartment width mm	Busbar dimensions mm × mm					
	200	20 × 10 30 × 10 40 × 10 50 × 10			Flat copper	8PQ4000-2BA25	1 unit
	400	20 × 10 30 × 10 40 × 10 50 × 10			Flat copper	8PQ4000-2BA26	1 unit
	② Reinforcements						
	Compartment width mm	Busbar dimensions mm × mm					
	--	20 × 10 30 × 10 40 × 10 50 × 10			Flat copper	8PQ4000-0BA37	1 unit
	③ Supports						
	Compartment width mm						
	200				8PQ4000-0BA78	1 unit	
	400		8PQ4000-0BA61	1 unit			

SIVACON S4 Power Distribution Boards

Section Expansion

3WL air circuit breakers

Overview



NSE0_01687d

- | | |
|---|--|
| ① Guide frame | ⑭ EMERGENCY-STOP pushbutton, key operated |
| ② Main circuit connection front, flange, horizontal, vertical | ⑮ Motorized operating mechanism |
| ③ Position signaling switch | ⑯ Operating cycles counter |
| ④ Ground connection, leading | ⑰ Breaker Status Sensor (BSS) |
| ⑤ Shutters | ⑱ Protective device with device holder, Electronic Trip Unit (ETU) |
| ⑥ COM15 PROFIBUS module or COM16 MODBUS module | ⑲ Remote reset solenoid |
| ⑦ External CubicleBUS modules | ⑳ Breaker Data Adapter (BDA <i>Plus</i>) |
| ⑧ Closing coil, auxiliary release | ㉑ Four-line display |
| ⑨ Auxiliary conductor plug-in system | ㉒ Ground-fault protection module |
| ⑩ Auxiliary switch block | ㉓ Rating plug |
| ⑪ Door sealing frame | ㉔ Measurement function module |
| ⑫ Interlocking set for mechanical ON/OFF | ㉕ Air circuit breaker |
| ⑬ Transparent panel, function insert | |

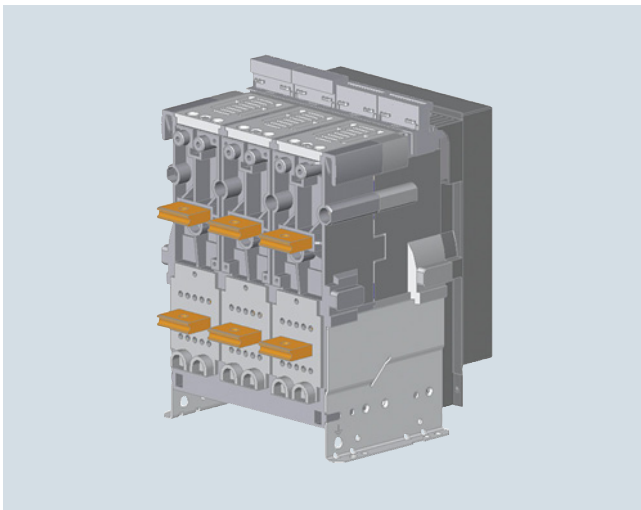
Size	I		II		
Type	3WL11		3WL12		
Switching capacity class	N	S	N	S	H
Rated short-circuit breaking capacity					
Rated operational voltage U_e up to 415 V AC					
I_{cu}	kA 55	66	66	80	100
I_{cs}	kA 55	66	66	80	100
I_{cm}	kA 121	145	145	176	220
Rated operational voltage U_e up to 500 V AC					
I_{cu}	kA 55	66	66	80	100
I_{cs}	kA 55	66	66	80	100
I_{cm}	kA 121	145	145	176	220
Rated operational voltage U_e up to 690 V AC					
I_{cu}	kA 42	50	50	75	85
I_{cs}	kA 42	50	50	75	85
I_{cm}	kA 88	105	105	165	187
Rated operational voltage U_e up to 1000/1150 V AC					
I_{cu}	kA --	--	--	--	50
I_{cs}	kA --	--	--	--	50
I_{cm}	kA --	--	--	--	105
Rated short-time withstand current I_{cw} of the circuit breakers³⁾					
0.5 s	kA 55	66	66	80	100
1 s	kA 42	50	55	66	80
2 s	kA 29.5	35	39	46	65 ^{1)/70²⁾}
3 s	kA 24	29	32	44	50 ^{1)/65²⁾}
Short-circuit breaking capacity I_{cc} of the non-automatic air circuit breakers					
Up to 500 V AC	kA 55	66	66	80	100
Up to 690 V AC	kA 42	50	50	75	85
Up to 1000 V/1150 V AC	kA --	--	--	--	50 ⁴⁾

1) Size II with $I_{n\max} \leq 2500$ A.

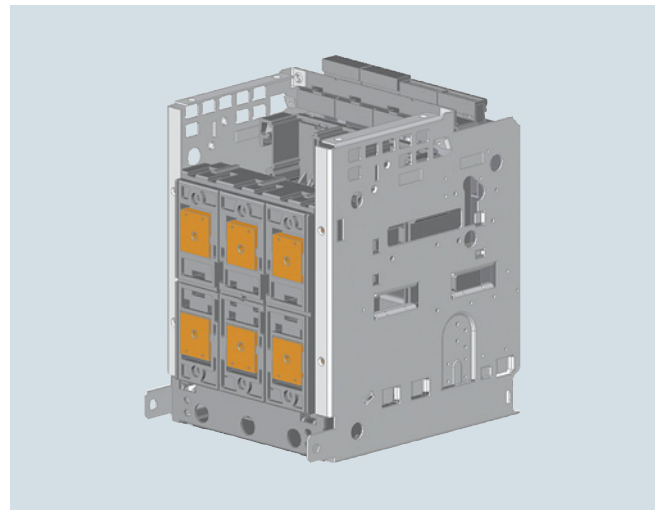
2) Size II with $I_{n\max} = 3200$ A and $I_{n\max} = 4000$ A.

3) At a rated voltage of ≥ 690 V, the I_{cw} value of the circuit breaker cannot be greater than the I_{cu} value or I_{cs} value at 690 V.

4) Rated operational voltage $U_e = 1150$ V.



3WL air circuit breaker with horizontal connections for fixed-mounted versions



3WL air circuit breaker with flange connections for draw-out versions

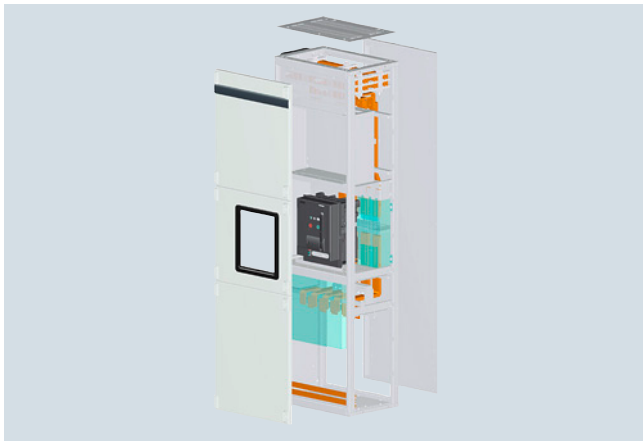
SIVACON S4 Power Distribution Boards

Section Expansion

3WL air circuit breakers

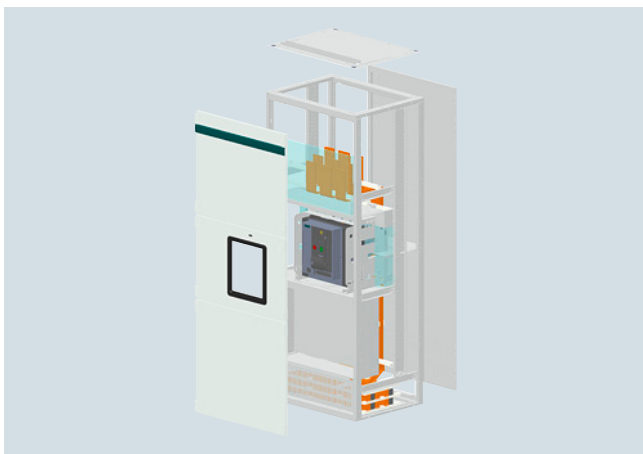
Incoming feeder bays

Main busbar at top



Size	I_n	Rated operational current I_{ec} ventilated							Rated operational current I_{ec} non-ventilated						
		in A													
		20 °C	25 °C	30 °C	35 °C	40 °C	45 °C	50 °C	20 °C	25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
I	1600	1600	1600	1590	1550	1510	1460	1420	1370	1340	1310	1270	1240	1200	1170
	2000	2000	2000	1990	1940	1890	1830	1780	1720	1680	1640	1590	1550	1510	1460
II	2000	2000	2000	2000	2000	2000	2000	2000	1960	1920	1870	1820	1780	1730	1670
	3200	2850	2790	2720	2650	2580	2510	2430	2260	2210	2160	2100	2050	1990	1930
III	4000	4000	4000	4000	4000	3950	3870	3780	3230	3150	3080	3000	2920	2840	2750

Main busbar at bottom



Size	I_n	Rated operational current I_{ec} ventilated							Rated operational current I_{ec} non-ventilated						
		in A													
		20 °C	25 °C	30 °C	35 °C	40 °C	45 °C	50 °C	20 °C	25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
I	1600	1540	1500	1470	1430	1390	1350	1310	1390	1350	1320	1290	1240	1190	1140
	2000	1930	1880	1840	1790	1740	1690	1640	1710	1670	1630	1590	1530	1470	1410
II	2000	2000	2000	2000	2000	1990	1920	1830	2000	1950	1880	1820	1750	1680	1610
	3200	2710	2640	2570	2490	2400	2300	2200	2320	2250	2180	2100	2030	1950	1860

SIVACON S4 Power Distribution Boards

Section Expansion

3WL air circuit breakers

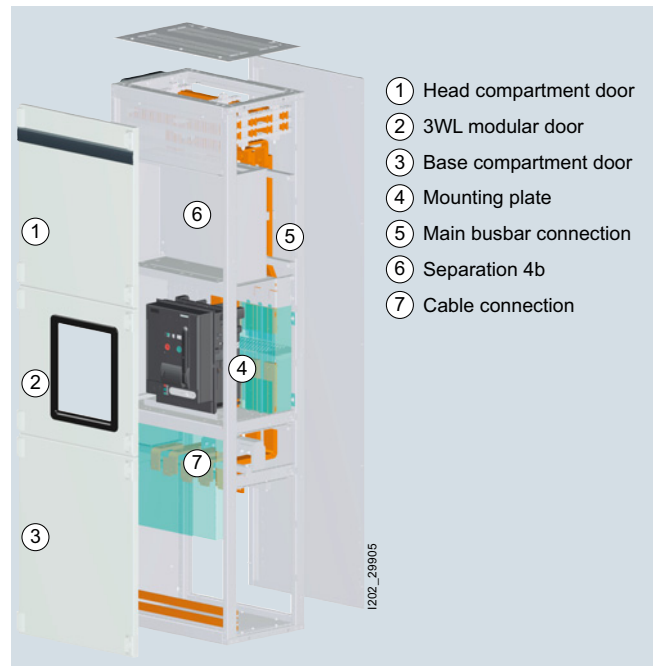
Main busbar at top

Features

- Combined 3-pole/4-pole assembly kits
- Incl. copper drawings

Configuration

- Separation 4b is recommended



Selection and ordering data

Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.
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① Head compartment door



Size	Width mm	Height mm	Head compartment door	IP55 upgrade	
I	600	675	8PQ2067-6BA01	8PQ2067-6BA02	
II	800	675	8PQ2067-8BA01	8PQ2067-8BA02	
III	1000	675	8PQ2067-1BA01	8PQ2067-1BA02	

② Modular door

- Door sealing frame 3WL9111-0AP01-0AA0 suitable for IP4X
- Protective cover 3WL9111-0AP02-0AA0 suitable for IP55



Size	Width mm	Height mm	Modular door IP4X	Modular door IP55	IP55 upgrade
I	600	550	8PQ2055-6BA16	8PQ2055-6BA17	8PQ2055-6BA06
II	800	550	8PQ2055-8BA08	8PQ2055-8BA10	8PQ2055-8BA06
III	1000	550	8PQ2055-1BA03	8PQ2055-1BA04	8PQ2055-1BA06

③ Base compartment door



Size	Width mm	Height mm	Base compartment door	IP55 upgrade	
I	600	750	8PQ2075-6BA01	8PQ2075-6BA03	
II	800	750	8PQ2075-8BA01	8PQ2075-8BA03	
III	1000	750	8PQ2075-1BA01	8PQ2075-1BA02	

SIVACON S4 Power Distribution Boards

Section Expansion

3WL air circuit breakers

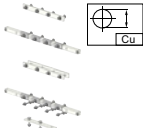
Version	Article No. www.siemens.com/ product?Article No.
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④ Mounting plate



Size	Width mm	Height mm	Mounting plate
I	600	550	8PQ6000-5BA26
II	800	550	8PQ6000-5BA24
III	1000	550	8PQ6000-5BA23

⑤ Main busbar connection



Size	Width mm	Rated current A	Mechanical system
I	600	2000	8PQ6000-6BA75
II	800	3200	8PQ6000-6BA76
III	1000	4000	8PQ6000-5BA33

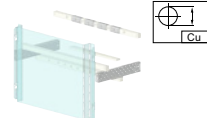
⑥ Separation 4b



Size	Width mm	Depth mm	Position of main busbar	Separation
I	600	400	Top (front)	8PQ5000-4BA28
		600	Top (front)	8PQ5000-4BA30
		800	Top (front)	8PQ5000-4BA31
II	800	600	Top (front)	8PQ5000-4BA32
		800	Top (front)	8PQ5000-4BA33
		800	Top (double)	8PQ5000-5BA11

⑦ Cable connection

- Suitable for transformer installation



Size	Compartment width mm	Rated current A	Installation type	Mechanical system
I	600	2000	Fixed	8PQ6000-5BA81
			Draw-out	8PQ6000-5BA82
II	800	3200	Fixed	8PQ6000-5BA83
			Draw-out	8PQ6000-5BA83
III	1000	4000	Fixed	8PQ6000-5BA84
			Draw-out	8PQ6000-5BA84

⑧ 3WL insulation

Required for

- 3WL, size I in draw-out version
- For main busbar connection ⑤ and cable connection ⑦



Insulation

8PQ6000-7BA28

SIVACON S4 Power Distribution Boards

Section Expansion

3WL air circuit breakers

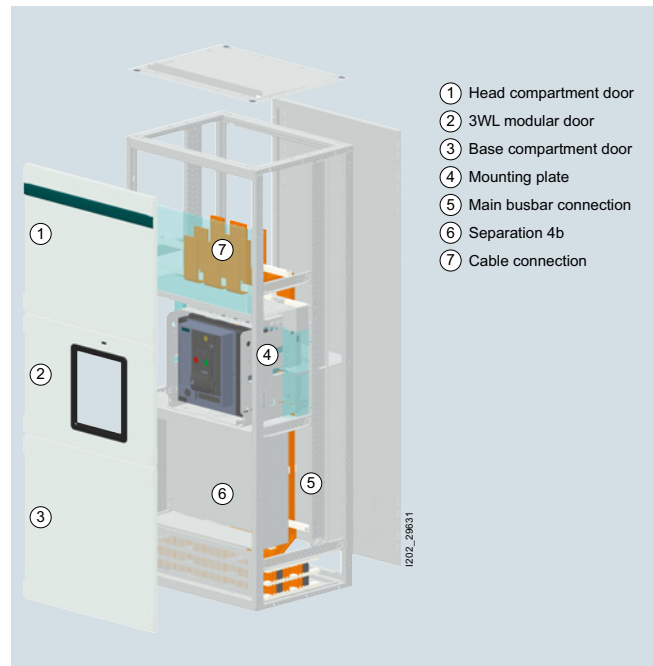
Main busbar at bottom

Features

- Combined 3-pole/4-pole assembly kits
- Incl. copper drawings

Configuration

- Separation 4b is recommended



Selection and ordering data

Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.
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① Head compartment door



Size	Width mm	Height mm	Head compartment door	IP55 upgrade	
I	600	675	8PQ2067-6BA01	8PQ2067-6BA02	
II	800	675	8PQ2067-8BA01	8PQ2067-8BA02	

② 3WL modular door

- Door sealing frame 3WL9111-0AP01-0AA0 suitable for IP4X
- Protective cover 3WL9111-0AP02-0AA0 suitable for IP55



Size	Width mm	Height mm	Modular door IP4X	Modular door IP55	IP55 upgrade
I	600	550	8PQ2055-6BA16	8PQ2055-6BA17	8PQ2055-6BA06
II	800	550	8PQ2055-8BA08	8PQ2055-8BA10	8PQ2055-8BA06

③ Base compartment door



Size	Width mm	Height mm	Base compartment doors	IP55 upgrade	
I	600	750	8PQ2075-6BA01	8PQ2075-6BA03	
II	800	750	8PQ2075-8BA01	8PQ2075-8BA03	

SIVACON S4 Power Distribution Boards

Section Expansion

3WL air circuit breakers

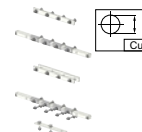
Version	Article No. www.siemens.com/ product?Article No.
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④ Mounting plate



Size	Width mm	Height mm	Mounting plate
I	600	550	8PQ6000-5BA26
II	800	550	8PQ6000-5BA24

⑤ Main busbar connection



Size	Width mm	Rated current A	Mechanical system
I	600	2000	8PQ6000-6BA75
II	800	3200	8PQ6000-6BA76

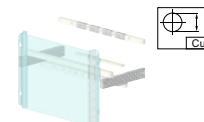
⑥ Separation 4b



Size	Width mm	Depth mm	Position of main busbar	Separation
I	600	400	Bottom (front)	8PQ5000-4BA34
		600	Bottom (front)	8PQ5000-4BA35
		800	Bottom (front)	8PQ5000-4BA36
II	800	600	Bottom (front)	8PQ5000-4BA37
		800	Bottom (front)	8PQ5000-4BA38

⑦ Cable connection

- Suitable for transformer installation

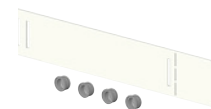


Size	Compartment width mm	Rated current A	Installation type	Mechanical system
I	600	2000	Fixed	8PQ6000-5BA81
			Draw-out	8PQ6000-5BA82
II	800	3200	Fixed	8PQ6000-5BA83
			Draw-out	8PQ6000-5BA83

⑧ 3WL insulation

Required for

- 3WL, size I in draw-out version
- For main busbar connection ⑤ and cable connection ⑦



Insulation
8PQ6000-7BA28

Coupling panels

Technical specifications

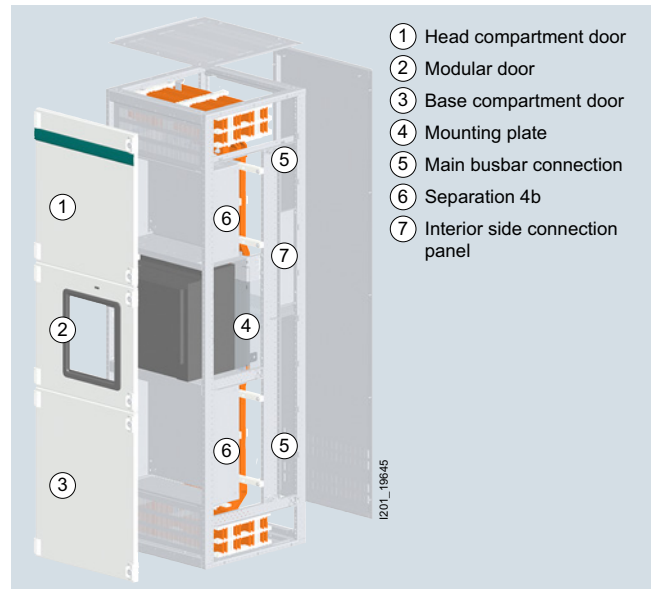
Features

- 3/4-pole combined
- Incl. copper drawing

Configuration

- Separation 4b is recommended

PEN systems are a requirement for section depth 400 mm (L1 ... L3, PEN)



Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.
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① Head compartment door



Size	Width mm	Height mm	Head compartment door	IP55 upgrade	
I	600	675	8PQ2067-6BA01	8PQ2067-6BA02	
II	800	675	8PQ2067-8BA01	8PQ2067-8BA02	

② Modular door

- Door sealing frame 3WL9111-0AP01-0AA0 suitable for IP4X
- Protective cover 3WL9111-0AP02-0AA0 suitable for IP55



Size	Width mm	Height mm	Modular door IP4X	Modular door IP55	IP55 upgrade
I	600	550	8PQ2055-6BA16	8PQ2055-6BA17	8PQ2055-6BA06
II	800	550	8PQ2055-8BA08	8PQ2055-8BA10	8PQ2055-8BA06

③ Base compartment door



Size	Width mm	Height mm	Base compartment doors	IP55 upgrade	
I	600	750	8PQ2075-6BA01	8PQ2075-6BA03	
II	800	750	8PQ2075-8BA01	8PQ2075-8BA03	

SIVACON S4 Power Distribution Boards

Section Expansion

3WL air circuit breakers

Version	Article No. www.siemens.com/ product?Article No.
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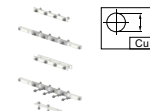
④ Mounting plate



Size	Width mm	Height mm	Mounting plate
I	600	550	8PQ6000-5BA26
II	800	550	8PQ6000-5BA24

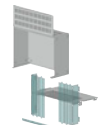
⑤ Main busbar connection

- Two units per section



Size	Width mm	Rated current A	Quantity	Mechanical system
I	600	2000	2x	8PQ6000-6BA75
II	800	3200	2x	8PQ6000-6BA76

⑥ Separation 4b



Size	Width mm	Depth mm	Position of main busbar	Separation
I	600	400	Top (front)	8PQ5000-5BA12
		600	Top (front)	8PQ5000-5BA13
		800	Top (front)	8PQ5000-5BA14
II	800	600	Top (front)	8PQ5000-5BA15
		800	Top (front)	8PQ5000-5BA16

⑦ Interior side connection panel

- Two units per section



Depth in mm	Quantity	
400		--
600	2x	8PQ3000-3BA50
800	2x	8PQ3000-3BA51

SIVACON S4 Power Distribution Boards

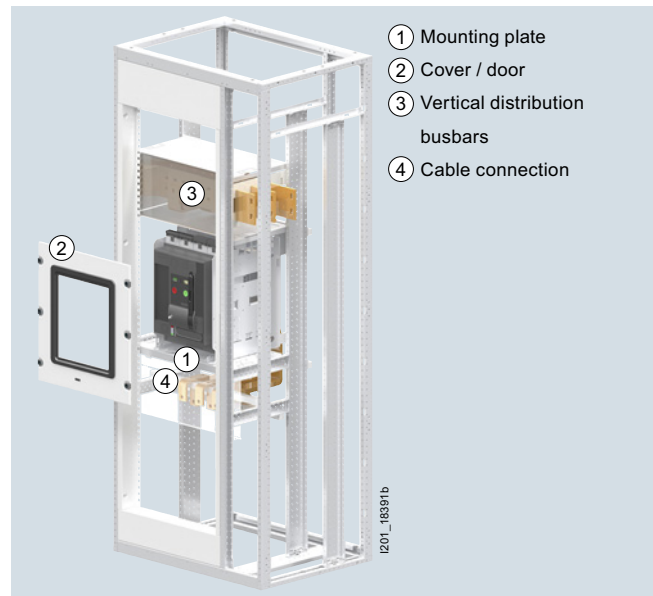
Section Expansion

3WL air circuit breakers

Vertical busbar connection

Features

- 3/4-pole combined
- Incl. copper drawings

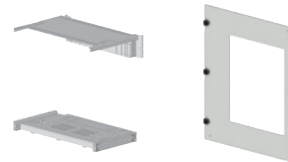


Selection and ordering data

Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.
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Draw-out and fixed-mounted versions with cover

- Door sealing frame 3WL9111-0AP01-0AA0 suitable for IP4X



Size	Compartment width mm	No. of poles	Minimum depth mm	Height mm	① Mounting plate	② Cover
I	600	3	600	550	8PQ6000-3BA31	8PQ2055-6BA05
		4	600		8PQ6000-3BA31	8PQ2055-6BA07
	3/4	600	8PQ6000-3BA32		8PQ2055-8BA04	

Draw-out and fixed-mounted versions with modular door

- Door sealing frame 3WL9111-0AP01-0AA0 suitable for IP4X
- Protective cover 3WL9111-0AP02-0AA0 suitable for IP55



Size	Compartment width mm	No. of poles	Minimum depth mm	Height mm	① Mounting plate	② Modular door IP4X	② Modular door IP55
I	400	3	400	550	8PQ6000-5BA25	8PQ2055-4BA12	--
	600	3/4	400		8PQ6000-5BA26	8PQ2055-6BA16	8PQ2055-6BA17

SIVACON S4 Power Distribution Boards

Section Expansion

3WL air circuit breakers

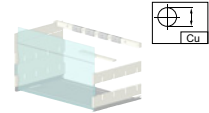
Selection and ordering data

Version

 Article No.
[www.siemens.com/
product?Article No.](http://www.siemens.com/product?ArticleNo.)

3WL connecting terminal kit

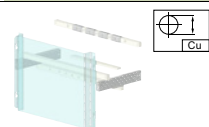
③ Vertical distribution busbars



Size	Enclosure	3WL rated current A	Compartment width mm	Installation type	Height		Mechanical system	
					Above circuit breaker mm	Below circuit breaker mm		
I	Modular door	1600	400 ¹⁾	Fixed	250	300	8PQ6000-5BA48	
			600	Draw-out	250	300	8PQ6000-5BA50	
				Fixed	250	300	8PQ6000-5BA51	
			Draw-out	250	300	8PQ6000-5BA52		
	Cover	1600	600	Fixed	250	300	8PQ6000-5BA45	
				Draw-out	250	300	8PQ6000-5BA45	
			800	Fixed	250	300	8PQ6000-5BA46	
				Draw-out	250	300	8PQ6000-5BA46	
	Modular door	2000	400 ¹⁾	Fixed	300	350	8PQ6000-7BA05	
				Draw-out	300	350	8PQ6000-7BA06	
				600	Fixed	300	350	8PQ6000-7BA07
					Draw-out	300	350	8PQ6000-7BA08
Cover	2000	600	Fixed	300	350	8PQ6000-7BA03		
			Draw-out	300	350	8PQ6000-7BA03		
		800	Fixed	300	350	8PQ6000-7BA04		
			Draw-out	300	350	8PQ6000-7BA04		

④ Cable connection

- To be able to anchor, bend and connect the cables it is necessary to leave enough space for the assembly operations
- Suitable for transformer installation

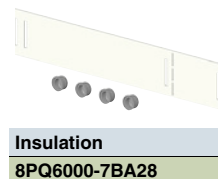


Size	Enclosure	3WL rated current A	Compartment width mm	Installation type	Height		Mechanical system
					mm	mm	
I	Modular door	2000	400 ¹⁾	Fixed	425		8PQ6000-5BA78
			600	Draw-out	425		8PQ6000-5BA80
				Fixed	425		8PQ6000-5BA81
			Draw-out	425		8PQ6000-5BA82	
	Cover	2000	600	Fixed	250		8PQ6000-5BA75
				Draw-out	250		8PQ6000-5BA75
			800	Fixed	250		8PQ6000-5BA76
				Draw-out	250		8PQ6000-5BA76

⑤ 3WL insulation

Required for

- 3WL, size I in draw-out version
- For main busbar connection ⑤ and cable connection ⑦



Insulation

8PQ6000-7BA28

¹⁾ 3-pole corresponding to circuit breaker assembly kit

SIVACON S4 Power Distribution Boards

Section Expansion

3WL air circuit breakers

Version	Article No. www.siemens.com/ product?Article No.
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Accessories

Busbar holder
1 set = 4 holders



Size	Number of poles	Width in mm	
I	3/4	600	8PQ6000-4BA35
II	3	600	8PQ6000-4BA36
I	3/4	800	8PQ6000-4BA37
II	3/4	800	8PQ6000-4BA38
III	3/4	1000	8PQ6000-4BA40

Busbar connection
For use with SIVACON 8PS



Size	Number of poles	Width in mm	Mechanical system
I	3/4	600	8PQ3000-1BA70
II	3	600	
I	3/4	800	8PQ3000-1BA71
II	3/4	800	
III	3/4	1000	8PQ3000-1BA72

SIVACON S4 Power Distribution Boards

Section Expansion

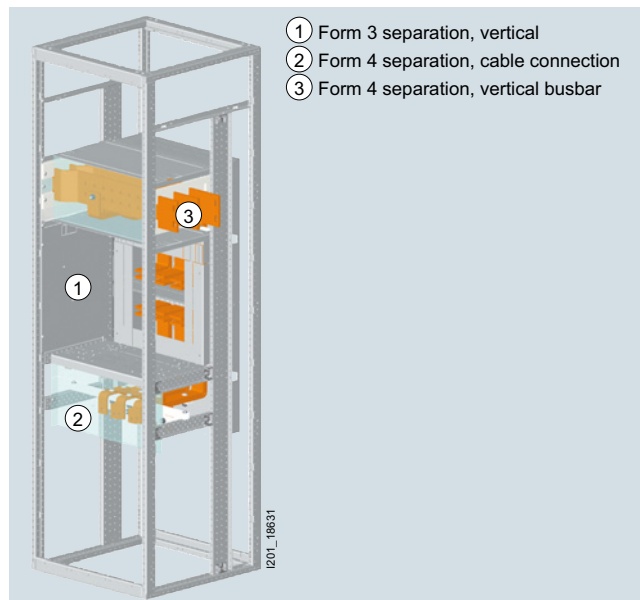
3WL air circuit breakers

Separation 3WL modular

Overview

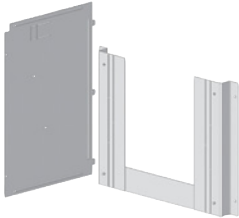
Features

- Compartmentalization for increasing the touch safety
- Form of internal separation up to 4b



Section with busbar connections and form 4b separation.

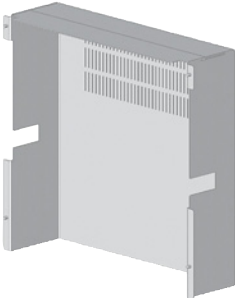
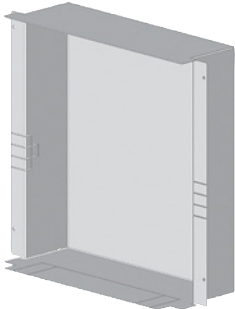
Selection and ordering data

Version				Article No. www.siemens.com/ product?Article No.	PS
					
① Form 3 separation, device compartments Module height: 550 mm					
Size	Modular cover at the front	Compartment width mm	Installation type		
I	Door	400	Fixed/draw-out	8PQ5000-3BA82	1 unit
		600	Fixed/draw-out	8PQ5000-3BA82	1 unit
	Cover	600	Fixed	8PQ5000-0BA08	1 unit
			Draw-out	8PQ5000-0BA07	1 unit
		800	Fixed	8PQ5000-1BA65	1 unit
			Draw-out	8PQ5000-1BA66	1 unit

SIVACON S4 Power Distribution Boards

Section Expansion

3WL air circuit breakers

Version				Article No. www.siemens.com/ product?Article No.	PS
					
② Form 4 separation, cable connection Installation type: Fixed-mounted and draw-out version					
Size	Modular cover at the front	Compartment width mm	Section depth mm		
I	Door	400	400	8PQ5000-3BA84	1 unit
			600/800	8PQ5000-4BA00	1 unit
	Cover	600	400	8PQ5000-3BA86	1 unit
		800	600/800	8PQ5000-4BA01	1 unit
		600	600/800	8PQ5000-0BA30	1 unit
		800	600/800	8PQ5000-1BA68	1 unit
					
③ Form 4 separation, vertical busbars Installation type: Fixed-mounted and draw-out version					
Size	Modular cover at the front	Compartment width mm	Section depth mm		
I	Door	400	400	8PQ5000-3BA84	1 unit
			600/800	8PQ5000-3BA85	1 unit
	Cover	600	400	8PQ5000-3BA86	1 unit
		800	600/800	8PQ5000-3BA87	1 unit
		600	600/800	8PQ5000-0BA14	1 unit
		800	600/800	8PQ5000-1BA67	1 unit


SIVACON S4 Power Distribution Boards

Section Expansion

3VA molded case circuit breakers

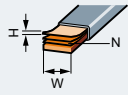
Technical specifications

Connection cross-sections for internal wiring

Rated current I_n	
A	Cable cross-sections (stranded) mm ²
8	1
12	1.5
20	2.5
25	4
32	6
50	10
65	16
85	25
115	35
150	50
175	70 or 2 × 35
225	95 or 2 × 50
250	120 or 2 × 50
275	2 × 50
300	2 × 70
350	2 × 95
375	2 × 95
400	2 × 95
450	2 × 150 or 3 × 70
500	2 × 150 or 3 × 95
630	2 × 185

Device connection

The SIVACON S4 system only uses the following insulated connection media for connections:

Rated current I_n		
A	Flexible busbar mm ²	N × W × H in mm
250	120	5 × 24 × 1
400	256	8 × 32 × 1
630	256	8 × 32 × 1

Main busbar at top

		Rated operational current I_{ec} ventilated							
		At 500 W, additional power loss in the section in A							
Type	I_{cc}	I_n	20 °C	25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
3VA10	36	100	95	92	89	86	83	80	77
3VA11	70	160	143	139	135	130	125	120	115
3VA12	70	250	250	247	239	231	223	214	205
3VA20	150	25	25	25	25	25	25	25	25
		40	40	40	40	40	40	40	40
		63	63	63	63	63	63	63	63
		100	100	100	100	100	96	92	88
3VA21	150	25	25	25	25	25	25	25	25
		40	40	40	40	40	40	40	40
		63	63	63	63	63	63	63	63
		100	100	100	100	100	100	100	100
3VA22	150	160	160	160	160	160	160	160	160
		250	250	250	250	244	234	224	214
3VA23	110	250	250	250	250	250	250	250	250
		400	375	365	355	340	325	315	300
3VA24	110	400	400	400	400	393	380	360	345
		630	435	420	410	393	380	360	345

*Without COM-60 module

I_{cc} : Rated conditional short-circuit current

I_{ec} : Rated operational current of the branch

I_n : Rated current of the device

Internal cover – horizontal

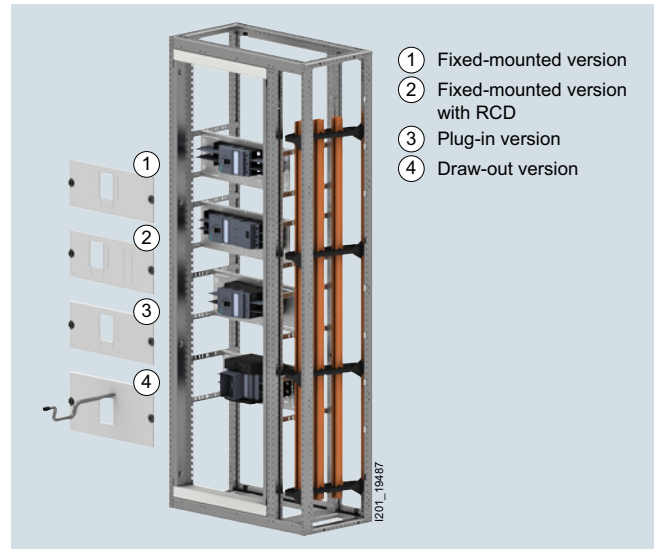
Overview

Features

- Front and rear connection possible
- Optimized for cost-effective use of flexible insulated copper busbars

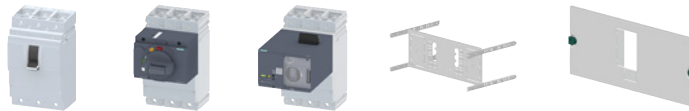
Configuration

- At voltages >415 V, phase separators and insulating plates are required (see also insulation measures in the Manual).



Selection and ordering data

Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.	PS
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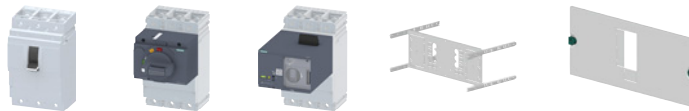
Molded case circuit breakers	Width mm	Height mm	Operator type			Mounting plate	Cover	
① Fixed-mounted version								
3-pole								
3VA10 (100 A)	600	150	✓	✓		8PQ6000-8BA01	8PQ2015-6BA26	1 unit
	800	150	✓	✓		8PQ6000-8BA02	8PQ2015-8BA11	1 unit
3VA11 (160 A)	600	150	✓	✓	✓	8PQ6000-8BA01	8PQ2015-6BA26	1 unit
	800	150	✓	✓	✓	8PQ6000-8BA02	8PQ2015-8BA11	1 unit
3VA12 (250 A)	600	150	✓	✓	✓	8PQ6000-8BA03	8PQ2015-6BA28	1 unit
	800	200	✓	✓	✓	8PQ6000-8BA07	8PQ2020-8BA20	1 unit
3VA20 (100 A)	600	200	✓	✓	✓	8PQ6000-8BA08	8PQ2020-6BA38	1 unit
	800	200	✓	✓	✓	8PQ6000-8BA10	8PQ2020-8BA21	1 unit
3VA21 (160 A)	600	200	✓	✓	✓	8PQ6000-8BA08	8PQ2020-6BA38	1 unit
	800	200	✓	✓	✓	8PQ6000-8BA10	8PQ2020-8BA21	1 unit
3VA22 (250 A)	600	200	✓	✓	✓	8PQ6000-8BA08	8PQ2020-6BA38	1 unit
	800	200	✓	✓	✓	8PQ6000-8BA10	8PQ2020-8BA21	1 unit
3VA23 (400 A)	600	200	✓	✓	✓	8PQ6000-8BA23	8PQ2020-6BA41	1 unit
	800	250	✓	✓	✓	8PQ6000-8BA27	8PQ2025-8BA14	1 unit
3VA24 (630 A)	600	200	✓	✓	✓	8PQ6000-8BA23	8PQ2020-6BA41	1 unit
	800	250	✓	✓	✓	8PQ6000-8BA27	8PQ2025-8BA14	1 unit

SIVACON S4 Power Distribution Boards

Section Expansion

3VA molded case circuit breakers

Version	Article No. www.siemens.com/ product?Article.No.	Article No. www.siemens.com/ product?Article.No.	PS
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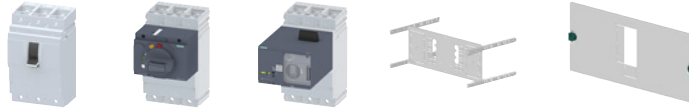
Molded case circuit breakers	Width mm	Height mm	Operator type			Mounting plate	Cover	
4-pole								
3VA10 (100 A)	600	150	✓	✓		8PQ6000-8BA01	8PQ2015-6BA26	1 unit
	800	150	✓	✓		8PQ6000-8BA02	8PQ2015-8BA11	1 unit
3VA11 (160 A)	600	150	✓	✓	✓	8PQ6000-8BA01	8PQ2015-6BA26	1 unit
	800	150	✓	✓	✓	8PQ6000-8BA02	8PQ2015-8BA11	1 unit
3VA12 (250 A)	600	200	✓	✓	✓	8PQ6000-8BA05	8PQ2020-6BA36	1 unit
	800	200	✓	✓	✓	8PQ6000-8BA07	8PQ2020-8BA20	1 unit
3VA20 (100 A)	600	200	✓	✓	✓	8PQ6000-8BA08	8PQ2020-6BA38	1 unit
	800	200	✓	✓	✓	8PQ6000-8BA10	8PQ2020-8BA21	1 unit
3VA21 (160 A)	600	200	✓	✓	✓	8PQ6000-8BA08	8PQ2020-8BA38	1 unit
	800	200	✓	✓	✓	8PQ6000-8BA10	8PQ2020-8BA21	1 unit
3VA22 (250 A)	600	200	✓	✓	✓	8PQ6000-8BA08	8PQ2020-8BA38	1 unit
	800	200	✓	✓	✓	8PQ6000-8BA10	8PQ2020-8BA21	1 unit
3VA23 (400 A)	600	250	✓	✓	✓	8PQ6000-8BA25	8PQ2020-8BA23	1 unit
	800	250	✓	✓	✓	8PQ6000-8BA27	8PQ2020-8BA14	1 unit
3VA24 (630 A)	600	250	✓	✓	✓	8PQ6000-8BA25	8PQ2020-8BA23	1 unit
	800	250	✓	✓	✓	8PQ6000-8BA27	8PQ2020-8BA14	1 unit
3-pole + N								
3VA10 (100 A)	600	150	✓	✓		8PQ6000-8BA01	8PQ2015-6BA26	1 unit
	800	150	✓	✓		8PQ6000-8BA02	8PQ2015-8BA11	1 unit
3VA11 (160 A)	600	150	✓	✓	✓	8PQ6000-8BA01	8PQ2015-6BA26	1 unit
	800	150	✓	✓	✓	8PQ6000-8BA02	8PQ2015-8BA11	1 unit
3VA12 (250 A)	600	200	✓	✓	✓	8PQ6000-8BA05	8PQ2020-6BA36	1 unit
	800	200	✓	✓	✓	8PQ6000-8BA07	8PQ2020-8BA20	1 unit
3VA20 (100 A)	600	200	✓	✓	✓	8PQ6000-8BA08	8PQ2020-6BA38	1 unit
	800	200	✓	✓	✓	8PQ6000-8BA10	8PQ2020-8BA21	1 unit
3VA21 (160 A)	600	200	✓	✓	✓	8PQ6000-8BA08	8PQ2020-6BA38	1 unit
	800	200	✓	✓	✓	8PQ6000-8BA10	8PQ2020-8BA21	1 unit
3VA22 (250 A)	600	200	✓	✓	✓	8PQ6000-8BA08	8PQ2020-6BA38	1 unit
	800	200	✓	✓	✓	8PQ6000-8BA10	8PQ2020-8BA21	1 unit
3VA23 (400 A)	600	250	✓	✓	✓	8PQ6000-8BA25	8PQ2025-6BA23	1 unit
	800	250	✓	✓	✓	8PQ6000-8BA27	8PQ2025-8BA14	1 unit
3VA24 (630 A)	600	250	✓	✓	✓	8PQ6000-8BA25	8PQ2025-6BA23	1 unit
	800	250	✓	✓	✓	8PQ6000-8BA27	8PQ2025-8BA14	1 unit

SIVACON S4 Power Distribution Boards

Section Expansion

3VA molded case circuit breakers

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Molded case circuit breakers	Width mm	Height mm	Operator type			Mounting plate	Cover	
② Fixed-mounted version with RCD								
3-pole								
3VA11 (160 A)	600 800	150 150	✓ ✓	✓ ✓	✓ ✓	8PQ6000-8BA01 8PQ6000-8BA02	8PQ2015-6BA27 8PQ2015-8BA11	1 unit 1 unit
3VA12 (250 A)	600 800	150 200	✓ ✓	✓ ✓	✓ ✓	8PQ6000-8BA03 8PQ6000-8BA07	8PQ2015-6BA30 8PQ2020-8BA20	1 unit 1 unit
3VA20 (100 A)	600 800	200 200	✓ ✓	✓ ✓	✓ ✓	8PQ6000-8BA11 8PQ6000-8BA10	8PQ2020-6BA40 8PQ2020-8BA21	1 unit 1 unit
3VA21 (160 A)	600 800	200 200	✓ ✓	✓ ✓	✓ ✓	8PQ6000-8BA11 8PQ6000-8BA10	8PQ2020-6BA40 8PQ2020-8BA21	1 unit 1 unit
3VA22 (250 A)	600 800	200 200	✓ ✓	✓ ✓	✓ ✓	8PQ6000-8BA11 8PQ6000-8BA10	8PQ2020-6BA40 8PQ2020-8BA21	1 unit 1 unit
3VA23 (400 A)	800	250	✓	✓	✓	8PQ6000-8BA27	8PQ2025-8BA14	1 unit
3VA24 (630 A)	800	250	✓	✓	✓	8PQ6000-8BA27	8PQ2025-8BA14	1 unit
3-pole + N								
3VA11 (160 A)	600 800	150 150	✓ ✓	✓ ✓	✓ ✓	8PQ6000-8BA01 8PQ6000-8BA02	8PQ2015-6BA27 8PQ2015-8BA11	1 unit 1 unit
3VA12 (250 A)	600 800	200 200	✓ ✓	✓ ✓	✓ ✓	8PQ6000-8BA05 8PQ6000-8BA07	8PQ2020-6BA37 8PQ2020-8BA20	1 unit 1 unit
3VA20 (100 A)	600 800	200 200	✓ ✓	✓ ✓	✓ ✓	8PQ6000-8BA11 8PQ6000-8BA10	8PQ2020-6BA40 8PQ2020-8BA21	1 unit 1 unit
3VA21 (160 A)	600 800	200 200	✓ ✓	✓ ✓	✓ ✓	8PQ6000-8BA11 8PQ6000-8BA10	8PQ2020-6BA40 8PQ2020-8BA21	1 unit 1 unit
3VA22 (250 A)	600 800	200 200	✓ ✓	✓ ✓	✓ ✓	8PQ6000-8BA11 8PQ6000-8BA10	8PQ2020-6BA40 8PQ2020-8BA21	1 unit 1 unit
3VA23 (400 A)	800	250	✓	✓	✓	8PQ6000-8BA27	8PQ2025-8BA14	1 unit
3VA24 (630 A)	800	250	✓	✓	✓	8PQ6000-8BA27	8PQ2025-8BA14	1 unit
4-pole								
3VA11 (160 A)	600 800	150 150	✓ ✓	✓ ✓	✓ ✓	8PQ6000-8BA01 8PQ6000-8BA02	8PQ2015-6BA27 8PQ2015-8BA11	1 unit 1 unit
3VA12 (250 A)	600 800	200 200	✓ ✓	✓ ✓	✓ ✓	8PQ6000-8BA05 8PQ6000-8BA07	8PQ2020-6BA37 8PQ2020-8BA20	1 unit 1 unit
3VA20 (100 A)	600 800	200 200	✓ ✓	✓ ✓	✓ ✓	8PQ6000-8BA11 8PQ6000-8BA10	8PQ2020-6BA40 8PQ2020-8BA21	1 unit 1 unit
3VA21 (160 A)	600 800	200 200	✓ ✓	✓ ✓	✓ ✓	8PQ6000-8BA11 8PQ6000-8BA10	8PQ2020-6BA40 8PQ2020-8BA21	1 unit 1 unit
3VA22 (250 A)	600 800	200 200	✓ ✓	✓ ✓	✓ ✓	8PQ6000-8BA11 8PQ6000-8BA10	8PQ2020-6BA40 8PQ2020-8BA21	1 unit 1 unit
3VA23 (400 A)	800	250	✓	✓	✓	8PQ6000-8BA27	8PQ2025-8BA14	1 unit
3VA24 (630 A)	800	250	✓	✓	✓	8PQ6000-8BA27	8PQ2025-8BA14	1 unit

¹⁾ For applications >415 V, front mounted rotary operator or motor operator required for compliance with safety clearances.

SIVACON S4 Power Distribution Boards

Section Expansion

3VA molded case circuit breakers

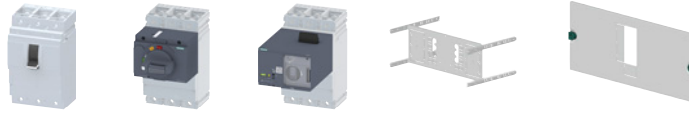
Version			Article No. www.siemens.com/ product?Article.No.			Article No. www.siemens.com/ product?Article.No.		PS	
									
Molded case circuit breakers	Width mm	Height mm	Operator type			Mounting plate	Cover		
③ Plug-in version									
3-pole									
3VA11 (160 A)	600	150	✓	✓	✓	8PQ6000-8BA01	8PQ2015-6BA26	1 unit	
	800	150	✓	✓	✓	8PQ6000-8BA02	8PQ2015-8BA11	1 unit	
3VA12 (250 A)	600	150	✓	✓	✓	8PQ6000-8BA04	8PQ2015-6BA28	1 unit	
	800	200	✓	✓	✓	8PQ6000-8BA07	8PQ2020-8BA20	1 unit	
3VA20 (100 A)	600	200	✓	✓	✓	8PQ6000-8BA08	8PQ2020-6BA38	1 unit	
	800	200	✓	✓	✓	8PQ6000-8BA10	8PQ2020-8BA21	1 unit	
3VA21 (160 A)	600	200	✓	✓	✓	8PQ6000-8BA08	8PQ2020-6BA38	1 unit	
	800	200	✓	✓	✓	8PQ6000-8BA10	8PQ2020-8BA21	1 unit	
3VA22 (250 A)	600	200	✓	✓	✓	8PQ6000-8BA08	8PQ2020-6BA38	1 unit	
	800	200	✓	✓	✓	8PQ6000-8BA10	8PQ2020-8BA21	1 unit	
3VA23 (400 A)	600	200	✓	✓	✓	8PQ6000-8BA24	8PQ2020-6BA41	1 unit	
	800	250	✓	✓	✓	8PQ6000-8BA28	8PQ2025-8BA14	1 unit	
3VA24 (630 A)	600	200	✓	✓	✓	8PQ6000-8BA24	8PQ2020-6BA41	1 unit	
	800	250	✓	✓	✓	8PQ6000-8BA28	8PQ2025-8BA14	1 unit	
4-pole									
3VA11 (160 A)	600	150	✓	✓	✓	8PQ6000-8BA01	8PQ2015-6BA26	1 unit	
	800	150	✓	✓	✓	8PQ6000-8BA02	8PQ2015-8BA11	1 unit	
3VA12 (250 A)	600	200	✓	✓	✓	8PQ6000-8BA06	8PQ2020-6BA36	1 unit	
	800	200	✓	✓	✓	8PQ6000-8BA07	8PQ2020-8BA20	1 unit	
3VA20 (100 A)	600	200	✓	✓	✓	8PQ6000-8BA08	8PQ2020-6BA38	1 unit	
	800	200	✓	✓	✓	8PQ6000-8BA10	8PQ2020-8BA21	1 unit	
3VA21 (160 A)	600	200	✓	✓	✓	8PQ6000-8BA08	8PQ2020-6BA38	1 unit	
	800	200	✓	✓	✓	8PQ6000-8BA10	8PQ2020-8BA21	1 unit	
3VA22 (250 A)	600	200	✓	✓	✓	8PQ6000-8BA08	8PQ2020-6BA38	1 unit	
	800	200	✓	✓	✓	8PQ6000-8BA10	8PQ2020-8BA21	1 unit	
3VA23 (400 A)	600	250	✓	✓	✓	8PQ6000-8BA26	8PQ2025-6BA23	1 unit	
	800	250	✓	✓	✓	8PQ6000-8BA28	8PQ2025-8BA14	1 unit	
3VA24 (630 A)	600	250	✓	✓	✓	8PQ6000-8BA26	8PQ2025-6BA23	1 unit	
	800	250	✓	✓	✓	8PQ6000-8BA28	8PQ2025-8BA14	1 unit	
3-pole + N									
3VA11 (160 A)	600	150	✓	✓	✓	8PQ6000-8BA01	8PQ2015-6BA26	1 unit	
	800	150	✓	✓	✓	8PQ6000-8BA02	8PQ2015-8BA11	1 unit	
3VA12 (250 A)	600	200	✓	✓	✓	8PQ6000-8BA06	8PQ2020-6BA36	1 unit	
	800	200	✓	✓	✓	8PQ6000-8BA07	8PQ2020-8BA20	1 unit	
3VA20 (100 A)	600	200	✓	✓	✓	8PQ6000-8BA08	8PQ2020-6BA38	1 unit	
	800	200	✓	✓	✓	8PQ6000-8BA10	8PQ2020-8BA21	1 unit	
3VA21 (160 A)	600	200	✓	✓	✓	8PQ6000-8BA08	8PQ2020-6BA38	1 unit	
	800	200	✓	✓	✓	8PQ6000-8BA10	8PQ2020-8BA21	1 unit	
3VA22 (250 A)	600	200	✓	✓	✓	8PQ6000-8BA08	8PQ2020-6BA38	1 unit	
	800	200	✓	✓	✓	8PQ6000-8BA10	8PQ2020-8BA21	1 unit	
3VA23 (400 A)	600	250	✓	✓	✓	8PQ6000-8BA26	8PQ2025-6BA23	1 unit	
	800	250	✓	✓	✓	8PQ6000-8BA28	8PQ2025-8BA14	1 unit	
3VA24 (630 A)	600	250	✓	✓	✓	8PQ6000-8BA26	8PQ2025-6BA23	1 unit	
	800	250	✓	✓	✓	8PQ6000-8BA28	8PQ2025-8BA14	1 unit	

SIVACON S4 Power Distribution Boards

Section Expansion

3VA molded case circuit breakers

Version					Article No. www.siemens.com/ product?Article.No.	Article No. www.siemens.com/ product?Article.No.	PS
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Molded case circuit breakers	Width mm	Module height [height of mounting plate] mm	Operator type			Mounting plate	Cover	
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④ Draw-out version

- Increase in module height required from form 3b
- Increase = module height - [height of mounting plate]

3-pole

3VA12 (250 A)	600	250 [150]	✓		✓	8PQ6000-8BA04	8PQ2025-6BA21	1 unit
	800	250 [200]	✓		✓	8PQ6000-8BA07	8PQ2025-8BA12	1 unit
3VA20 (100 A)	600	250 [200]	✓		✓	8PQ6000-8BA08	8PQ2025-6BA22	1 unit
	800	250 [200]	✓		✓	8PQ6000-8BA10	8PQ2025-8BA13	1 unit
3VA21 (160 A)	600	250 [200]	✓		✓	8PQ6000-8BA08	8PQ2025-6BA22	1 unit
	800	250 [200]	✓		✓	8PQ6000-8BA10	8PQ2025-8BA13	1 unit
3VA22 (250 A)	600	250 [200]	✓		✓	8PQ6000-8BA08	8PQ2025-6BA22	1 unit
	800	250 [200]	✓		✓	8PQ6000-8BA10	8PQ2025-8BA13	1 unit
3VA23 (400 A)	600	300 [200]	✓			8PQ6000-8BA24	8PQ2030-6BA27	1 unit
	800	300 [250]	✓			8PQ6000-8BA28	8PQ2030-8BA14	1 unit
3VA24 (630 A)	600	300 [200]	✓			8PQ6000-8BA24	8PQ2030-6BA27	1 unit
	800	300 [250]	✓			8PQ6000-8BA28	8PQ2030-8BA14	1 unit

4-pole

3VA12 (250 A)	600	300 [200]	✓		✓	8PQ6000-8BA06	8PQ2030-6BA25	1 unit
	800	300 [200]	✓		✓	8PQ6000-8BA07	8PQ2030-8BA12	1 unit
3VA20 (100 A)	600	300 [200]	✓		✓	8PQ6000-8BA08	8PQ2030-6BA26	1 unit
	800	300 [200]	✓		✓	8PQ6000-8BA10	8PQ2030-8BA13	1 unit
3VA21 (160 A)	600	300 [200]	✓		✓	8PQ6000-8BA08	8PQ2030-6BA26	1 unit
	800	300 [200]	✓		✓	8PQ6000-8BA10	8PQ2030-8BA13	1 unit
3VA22 (250 A)	600	300 [200]	✓		✓	8PQ6000-8BA08	8PQ2030-6BA26	1 unit
	800	300 [200]	✓		✓	8PQ6000-8BA10	8PQ2030-8BA13	1 unit
3VA23 (400 A)	600	350 [250]	✓			8PQ6000-8BA26	8PQ2035-6BA25	1 unit
	800	350 [250]	✓			8PQ6000-8BA28	8PQ2035-8BA15	1 unit
3VA24 (630 A)	600	350 [250]	✓			8PQ6000-8BA26	8PQ2035-6BA25	1 unit
	800	350 [250]	✓			8PQ6000-8BA28	8PQ2035-8BA15	1 unit

SIVACON S4 Power Distribution Boards

Section Expansion

3VA molded case circuit breakers

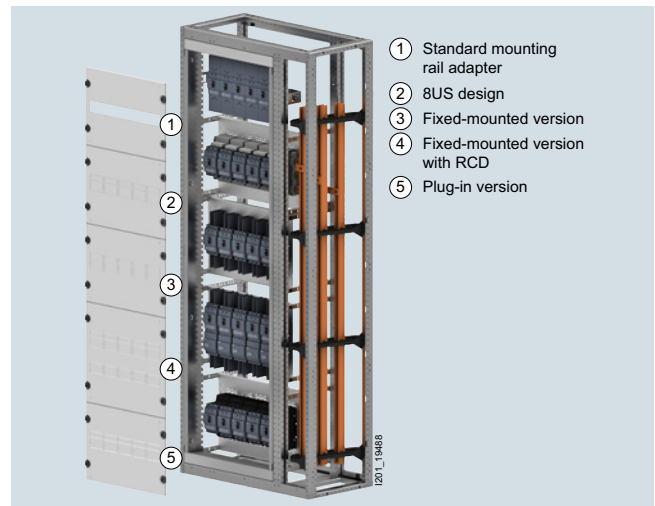
Internal cover – vertical

Features

- Front and rear connection possible
- Optimized for cost-effective use of flexible insulated copper busbars

Configuration

- Space for cable routing shall be provided above and below the assembly kits
- The space for cable routing is oriented around the selected cross-sections and their bending radii
- At voltages >415 V, phase separators and insulating plates are required (see also insulation measures in the Manual).



Version	Article No. www.siemens.com/ product?Article.No.	Article No. www.siemens.com/ product?Article.No.	PS
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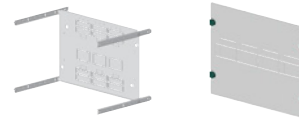


Molded case circuit breakers	Number of breakers	Width mm	Height mm	Operator type			Mounting plate	Cover	
① Standard mounting rail adapters									
3-pole									
3VA10 (100 A)	5	600	350	✓			8PQ6000-3BA36 8PQ6000-3BA37	8PQ2035-6BA28 8PQ2035-8BA18	1 unit
	8	800	350	✓					1 unit
3VA11 (160 A)	4	600	350	✓			8PQ6000-3BA36 8PQ6000-3BA37	8PQ2035-6BA28 8PQ2035-8BA18	1 unit
	5	800	350	✓					1 unit
4-pole									
3VA10 (100 A)	4	600	350	✓			8PQ6000-3BA36 8PQ6000-3BA37	8PQ2035-6BA28 8PQ2035-8BA18	1 unit
	6	800	350	✓					1 unit
3VA11 (160 A)	3	600	350	✓			8PQ6000-3BA36 8PQ6000-3BA37	8PQ2035-6BA28 8PQ2035-8BA18	1 unit
	4	800	350	✓					1 unit

② 8US design

8US1923-3AA01 busbar holder (width 600 = 2 units, width 800 = 3 units) and 8US1922-1AC00 end cover are to be ordered separately

3-pole

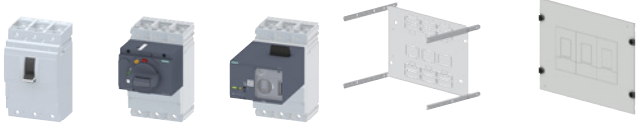


							Mounting plate	Cover	
3VA10 (100 A)	5	600	350	✓	✓		8PQ6000-8BA33 8PQ6000-8BA40	8PQ2035-6BA26 8PQ2035-8BA20	1 unit
	7	800	350	✓	✓				1 unit
3VA11 (160 A)	5	600	350	✓	✓	✓	8PQ6000-8BA33 8PQ6000-8BA40	8PQ2035-6BA26 8PQ2035-8BA20	1 unit
	7	800	350	✓	✓	✓			1 unit
3VA12 (250 A)	3	600	400	✓	✓	✓	8PQ6000-8BA36 8PQ6000-8BA41	8PQ2040-6BA26 8PQ2040-8BA23	1 unit
	5	800	400	✓	✓	✓			1 unit
3VA20 (100 A)	3	600	450	✓	✓		8PQ6000-8BA38 8PQ6000-8BA38 8PQ6000-8BA42 8PQ6000-8BA42	8PQ2045-6BA11 8PQ2045-6BA13 8PQ2045-8BA11 8PQ2045-8BA15	1 unit
	3	600	450			✓			1 unit
	5	800	450	✓	✓				1 unit
	5	800	450			✓			1 unit
3VA21 (160 A)	3	600	450	✓	✓		8PQ6000-8BA38 8PQ6000-8BA42	8PQ2045-6BA11 8PQ2045-8BA11	1 unit
	5	800	450	✓	✓				1 unit
3VA22 (250 A)	3	600	450	✓	✓		8PQ6000-8BA38 8PQ6000-8BA42	8PQ2045-6BA11 8PQ2045-8BA11	1 unit
	5	800	450	✓	✓				1 unit

SIVACON S4 Power Distribution Boards

Section Expansion

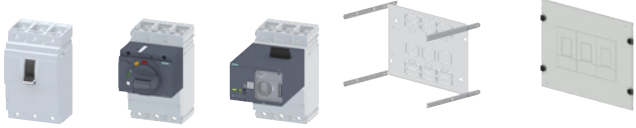
3VA molded case circuit breakers

Version			Article No. www.siemens.com/ product?Article.No.	Article No. www.siemens.com/ product?Article.No.	PS				
									
Molded case circuit breakers	Number of breakers	Width mm	Height mm	Operator type			Mounting plate	Cover	
③ Fixed-mounted version									
3-pole									
3VA10 (100 A)	5	600	350	✓	✓		8PQ6000-8BA33	8PQ2035-6BA26	1 unit
	7	800	350	✓	✓		8PQ6000-8BA47	8PQ2035-8BA16	1 unit
3VA11 (160 A)	5	600	350	✓	✓	✓	8PQ6000-8BA33	8PQ2035-6BA26	1 unit
	7	800	350	✓	✓	✓	8PQ6000-8BA47	8PQ2035-8BA16	1 unit
3VA12 (250 A)	3	600	400	✓	✓	✓	8PQ6000-8BA35	8PQ2040-6BA26	1 unit
	5	800	400	✓	✓	✓	8PQ6000-8BA43	8PQ2040-8BA23	1 unit
3VA20 (100 A)	3	600	450	✓	✓		8PQ6000-8BA37	8PQ2045-6BA11	1 unit
	3	600	450			✓	8PQ6000-8BA37	8PQ2045-6BA13	1 unit
	5	800	450	✓	✓		8PQ6000-8BA50	8PQ2045-8BA11	1 unit
	5	800	450			✓	8PQ6000-8BA50	8PQ2045-8BA15	1 unit
3VA21 (160 A)	3	600	450	✓	✓		8PQ6000-8BA37	8PQ2045-6BA11	1 unit
	5	800	450			✓	8PQ6000-8BA50	8PQ2045-8BA15	1 unit
3VA22 (250 A)	3	600	450	✓	✓		8PQ6000-8BA37	8PQ2045-6BA11	1 unit
	5	800	450	✓	✓		8PQ6000-8BA50	8PQ2045-8BA11	1 unit
3VA23 (400 A)	3	600	450	✓	✓	✓	8PQ6000-8BA54	8PQ2045-6BA12	1 unit
	4	800	450	✓	✓	✓	8PQ6000-8BA57	8PQ2045-8BA13	1 unit
3VA24 (630 A)	3	600	450	✓	✓	✓	8PQ6000-8BA54	8PQ2045-6BA12	1 unit
	4	800	450	✓	✓	✓	8PQ6000-8BA57	8PQ2045-8BA13	1 unit
4-pole									
3VA10 (100 A)	4	600	350	✓	✓		8PQ6000-8BA34	8PQ2035-6BA27	1 unit
	5	800	350	✓	✓		8PQ6000-8BA48	8PQ2035-8BA17	1 unit
3VA11 (160 A)	4	600	350	✓	✓	✓	8PQ6000-8BA34	8PQ2035-6BA27	1 unit
	5	800	350	✓	✓	✓	8PQ6000-8BA48	8PQ2035-8BA17	1 unit
3VA12 (250 A)	3	600	400	✓	✓	✓	8PQ6000-8BA35	8PQ2040-6BA26	1 unit
	4	800	400	✓	✓	✓	8PQ6000-8BA45	8PQ2040-8BA24	1 unit
3VA20 (100 A)	3	600	450	✓	✓		8PQ6000-8BA37	8PQ2045-6BA11	1 unit
	3	600	450			✓	8PQ6000-8BA37	8PQ2045-6BA13	1 unit
	4	800	450	✓	✓		8PQ6000-8BA52	8PQ2045-8BA12	1 unit
	4	800	450			✓	8PQ6000-8BA52	8PQ2045-8BA16	1 unit
3VA21 (160 A)	3	600	450	✓	✓		8PQ6000-8BA37	8PQ2045-6BA11	1 unit
	3	600	450			✓	8PQ6000-8BA37	8PQ2045-6BA13	1 unit
	4	800	450	✓	✓		8PQ6000-8BA52	8PQ2045-8BA12	1 unit
3VA22 (250 A)	3	600	450	✓	✓		8PQ6000-8BA37	8PQ2045-6BA11	1 unit
	3	600	450			✓	8PQ6000-8BA37	8PQ2045-6BA13	1 unit
	4	800	450	✓	✓		8PQ6000-8BA52	8PQ2045-8BA12	1 unit
	4	800	450			✓	8PQ6000-8BA52	8PQ2045-8BA16	1 unit
3VA23 (400 A)	2	600	450	✓	✓	✓	8PQ6000-8BA64	8PQ2045-6BA14	1 unit
	3	800	450	✓	✓	✓	8PQ6000-8BA61	8PQ2045-8BA14	1 unit
3VA24 (630 A)	2	600	450	✓	✓	✓	8PQ6000-8BA64	8PQ2045-6BA14	1 unit
	3	800	450	✓	✓	✓	8PQ6000-8BA61	8PQ2045-8BA14	1 unit

SIVACON S4 Power Distribution Boards

Section Expansion

3VA molded case circuit breakers

Version		Article No. www.siemens.com/ product?Article.No.		Article No. www.siemens.com/ product?Article.No.		PS			
									
Molded case circuit breakers	Number of breakers	Width mm	Height mm	Operator type			Mounting plate	Cover	
④ Fixed-mounted version with RCD									
3-pole									
3VA11 (160 A)	5	600	450	✓	✓	✓	8PQ6000-8BA33	8PQ2045-6BA08	1 unit
	7	800	450	✓	✓	✓	8PQ6000-8BA47	8PQ2045-8BA08	1 unit
3VA12 (250 A)	3	600	500	✓	✓	✓	8PQ6000-8BA35	8PQ2050-6BA10	1 unit
	5	800	500	✓	✓	✓	8PQ6000-8BA43	8PQ2050-8BA12	1 unit
3VA20 (100 A)	3	600	550	✓	✓		8PQ6000-8BA37	8PQ2055-6BA20	1 unit
	3	600	550			✓	8PQ6000-8BA37	8PQ2055-6BA21	1 unit
	5	800	550	✓	✓		8PQ6000-8BA50	8PQ2055-8BA11	1 unit
	5	800	550			✓	8PQ6000-8BA50	8PQ2055-8BA13	1 unit
3VA21 (160 A)	3	600	550	✓	✓		8PQ6000-8BA37	8PQ2055-6BA20	1 unit
	5	800	550	✓	✓		8PQ6000-8BA50	8PQ2055-8BA11	1 unit
3VA22 (250 A)	3	600	550	✓	✓		8PQ6000-8BA37	8PQ2055-6BA20	1 unit
	5	800	550	✓	✓		8PQ6000-8BA50	8PQ2055-8BA11	1 unit
3VA23 (400 A)	3	600	600	✓	✓	✓	8PQ6000-8BA55	8PQ2060-6BA25	1 unit
	4	800	600	✓	✓	✓	8PQ6000-8BA58	8PQ2060-8BA07	1 unit
3VA24 (630 A)	3	600	600	✓	✓	✓	8PQ6000-8BA55	8PQ2060-6BA25	1 unit
	4	800	600	✓	✓	✓	8PQ6000-8BA58	8PQ2060-8BA07	1 unit
4-pole									
3VA11 (160 A)	4	600	450	✓	✓	✓	8PQ6000-8BA34	8PQ2045-6BA10	1 unit
	5	800	450	✓	✓	✓	8PQ6000-8BA48	8PQ2045-8BA10	1 unit
3VA12 (250 A)	3	600	500	✓	✓	✓	8PQ6000-8BA35	8PQ2050-6BA10	1 unit
	4	800	500	✓	✓	✓	8PQ6000-8BA45	8PQ2050-8BA13	1 unit
3VA20 (100 A)	3	600	550	✓	✓		8PQ6000-8BA37	8PQ2055-6BA20	1 unit
	3	600	550			✓	8PQ6000-8BA37	8PQ2055-6BA21	1 unit
	4	800	550	✓	✓		8PQ6000-8BA52	8PQ2055-8BA12	1 unit
	4	800	550			✓	8PQ6000-8BA52	8PQ2055-8BA14	1 unit
3VA21 (160 A)	3	600	550	✓	✓		8PQ6000-8BA37	8PQ2055-6BA20	1 unit
	3	600	550			✓	8PQ6000-8BA37	8PQ2055-6BA21	1 unit
	4	800	550	✓	✓		8PQ6000-8BA52	8PQ2055-8BA12	1 unit
	4	800	550			✓	8PQ6000-8BA52	8PQ2055-8BA14	1 unit
3VA22 (250 A)	3	600	550	✓	✓		8PQ6000-8BA37	8PQ2055-6BA20	1 unit
	4	800	550	✓	✓		8PQ6000-8BA52	8PQ2055-8BA12	1 unit
3VA23 (400 A)	2	600	600	✓	✓	✓	8PQ6000-8BA65	8PQ2060-6BA26	1 unit
	3	800	600	✓	✓	✓	8PQ6000-8BA62	8PQ2060-8BA08	1 unit
3VA24 (630 A)	2	600	600	✓	✓	✓	8PQ6000-8BA65	8PQ2060-6BA26	1 unit
	3	800	600	✓	✓	✓	8PQ6000-8BA62	8PQ2060-8BA08	1 unit

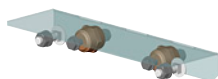
Version		Article No. www.siemens.com/ product?Article.No.		PS
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N-Link

Version

- 3VA10 (up to 100 A); 3VA11 (up to 160 A), 3VA12 (up to 250 A)
- 3VA23 (up to 400 A); 3VA24 (up to 630 A)

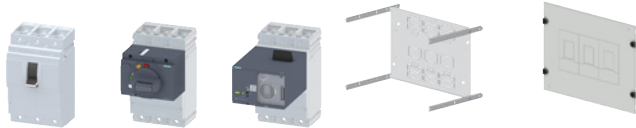
8PQ6000-8BA31	1 unit
8PQ6000-8BA32	1 unit



SIVACON S4 Power Distribution Boards

Section Expansion

3VA molded case circuit breakers

Version				Article No. www.siemens.com/ product?Article No.			Article No. www.siemens.com/ product?Article No.		PS
									
Molded case circuit breakers	Number of breakers	Width mm	Height mm	Operator type			Mounting plate	Cover	
⑤ Plug-in version									
3-pole									
3VA11 (160 A)	5	600	350	✓	✓	✓	8PQ6000-8BA33	8PQ2035-6BA26	1 unit
	7	800	350	✓	✓	✓	8PQ6000-8BA47	8PQ2035-8BA16	1 unit
3VA12 (250 A)	3	600	400	✓	✓	✓	8PQ6000-8BA36	8PQ2040-6BA26	1 unit
	5	800	400	✓	✓	✓	8PQ6000-8BA44	8PQ2040-8BA23	1 unit
3VA20 (100 A)	3	600	450	✓	✓		8PQ6000-8BA38	8PQ2045-6BA11	1 unit
	3	600	450			✓	8PQ6000-8BA38	8PQ2045-6BA13	1 unit
	5	800	450	✓	✓		8PQ6000-8BA51	8PQ2045-8BA11	1 unit
	5	800	450			✓	8PQ6000-8BA51	8PQ2045-8BA15	1 unit
3VA21 (160 A)	3	600	450	✓	✓		8PQ6000-8BA38	8PQ2045-6BA11	1 unit
	3	600	450			✓	8PQ6000-8BA38	8PQ2045-6BA13	1 unit
	5	800	450	✓	✓		8PQ6000-8BA51	8PQ2045-8BA11	1 unit
	5	800	450			✓	8PQ6000-8BA51	8PQ2045-8BA15	1 unit
3VA22 (250 A)	3	600	450	✓	✓		8PQ6000-8BA38	8PQ2045-6BA11	1 unit
	3	600	450			✓	8PQ6000-8BA38	8PQ2045-6BA13	1 unit
	5	800	450	✓	✓		8PQ6000-8BA51	8PQ2045-8BA11	1 unit
	5	800	450			✓	8PQ6000-8BA51	8PQ2045-8BA15	1 unit
3VA23 (400 A)	3	600	450	✓	✓	✓	8PQ6000-8BA56	8PQ2045-6BA12	1 unit
	4	800	450	✓	✓	✓	8PQ6000-8BA60	8PQ2045-8BA13	1 unit
3VA24 (630 A)	3	600	450	✓	✓	✓	8PQ6000-8BA56	8PQ2045-6BA12	1 unit
	4	800	450	✓	✓	✓	8PQ6000-8BA60	8PQ2045-8BA13	1 unit
4-pole									
3VA11 (160 A)	4	600	350	✓	✓	✓	8PQ6000-8BA34	8PQ2035-6BA27	1 unit
	5	800	350	✓	✓	✓	8PQ6000-8BA48	8PQ2035-8BA17	1 unit
3VA12 (250 A)	3	600	400	✓	✓	✓	8PQ6000-8BA36	8PQ2040-6BA26	1 unit
	4	800	400	✓	✓	✓	8PQ6000-8BA46	8PQ2040-8BA24	1 unit
3VA20 (100 A)	3	600	450	✓	✓		8PQ6000-8BA38	8PQ2045-6BA11	1 unit
	3	600	450			✓	8PQ6000-8BA38	8PQ2045-6BA13	1 unit
	4	800	450	✓	✓		8PQ6000-8BA53	8PQ2045-8BA12	1 unit
	4	800	450			✓	8PQ6000-8BA53	8PQ2045-8BA16	1 unit
3VA21 (160 A)	3	600	450	✓	✓		8PQ6000-8BA38	8PQ2045-6BA11	1 unit
	3	600	450			✓	8PQ6000-8BA38	8PQ2045-6BA13	1 unit
	4	800	450	✓	✓		8PQ6000-8BA53	8PQ2045-8BA12	1 unit
	4	800	450			✓	8PQ6000-8BA53	8PQ2045-8BA16	1 unit
3VA22 (250 A)	3	600	450	✓	✓		8PQ6000-8BA38	8PQ2045-6BA11	1 unit
	3	600	450			✓	8PQ6000-8BA38	8PQ2045-6BA13	1 unit
	4	800	450	✓	✓		8PQ6000-8BA53	8PQ2045-8BA12	1 unit
	4	800	450			✓	8PQ6000-8BA53	8PQ2045-8BA16	1 unit
3VA23 (400 A)	2	600	450	✓	✓	✓	8PQ6000-8BA66	8PQ2045-6BA14	1 unit
	3	800	450	✓	✓	✓	8PQ6000-8BA63	8PQ2045-8BA14	1 unit
3VA24 (630 A)	2	600	450	✓	✓	✓	8PQ6000-8BA66	8PQ2045-6BA14	1 unit
	3	800	450	✓	✓	✓	8PQ6000-8BA63	8PQ2045-8BA14	1 unit

SIVACON S4 Power Distribution Boards

Section Expansion

3VA molded case circuit breakers

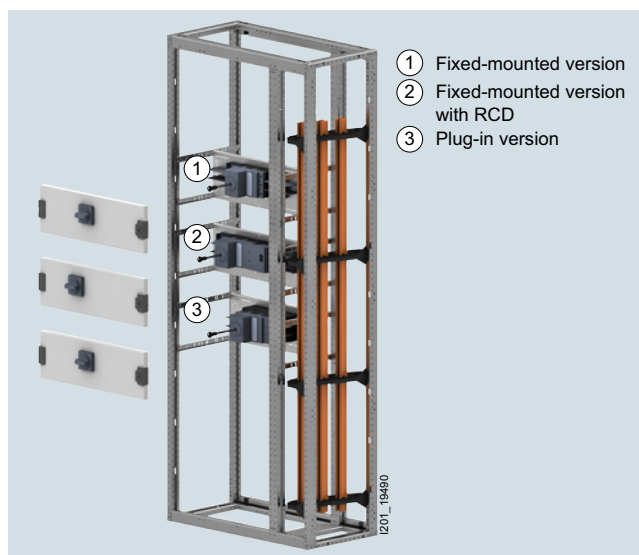
Modular door – horizontal

Features

- Front and rear connection possible
- Optimized for cost-effective use of flexible insulated copper busbars
- Modular doors prepared for 8UC door mounted rotary operators.

Configuration

- Space for cable routing shall be provided above and below the assembly kits
- The space for cable routing is oriented around the selected cross-sections and their bending radii
- At voltages >415 V, phase separators and insulating plates are required (see 3VA Manual).



Version	Article No. www.siemens.com/ product?Article.No.	Article No. www.siemens.com/ product?Article.No.	PS
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Molded case circuit breakers	Width mm	Height mm	Mounting plate	Modular door	
① Fixed-mounted version					
3/4-pole (unless otherwise specified)					
3VA10 (100 A)	600	150	8PQ6000-8BA01	8PQ2015-6BA31	1 unit
	800	150	8PQ6000-8BA02	8PQ2015-8BA12	1 unit
3VA11 (160 A)	600	150	8PQ6000-8BA01	8PQ2015-6BA31	1 unit
	800	150	8PQ6000-8BA02	8PQ2015-8BA12	1 unit
3VA12 (250 A)	600	150 (3-pole)	8PQ6000-8BA03	8PQ2015-6BA34	1 unit
	600	200	8PQ6000-8BA05	8PQ2020-6BA42	1 unit
	800	200	8PQ6000-8BA07	8PQ2020-8BA22	1 unit
3VA20 (100 A)	600	200	8PQ6000-8BA08	8PQ2020-6BA44	1 unit
	800	200	8PQ6000-8BA10	8PQ2020-8BA23	1 unit
3VA21 (160 A)	600	200	8PQ6000-8BA08	8PQ2020-6BA44	1 unit
	800	200	8PQ6000-8BA10	8PQ2020-8BA23	1 unit
3VA22 (250 A)	600	200	8PQ6000-8BA08	8PQ2020-6BA44	1 unit
	800	200	8PQ6000-8BA10	8PQ2020-8BA23	1 unit
3VA23 (400 A)	600	200 (3-pole)	8PQ6000-8BA23	8PQ2020-6BA46	1 unit
	600	250	8PQ6000-8BA25	8PQ2025-6BA24	1 unit
	800	250	8PQ6000-8BA27	8PQ2025-8BA15	1 unit
3VA24 (630 A)	600	200 (3-pole)	8PQ6000-8BA23	8PQ2020-6BA46	1 unit
	600	250	8PQ6000-8BA25	8PQ2025-6BA24	1 unit
	800	250	8PQ6000-8BA27	8PQ2025-8BA15	1 unit

SIVACON S4 Power Distribution Boards

Section Expansion

3VA molded case circuit breakers

Version			Article No. www.siemens.com/ product?Article.No.	Article No. www.siemens.com/ product?Article.No.	PS
					
Molded case circuit breakers	Width mm	Height mm	Mounting plate	Modular door	
② Fixed-mounted version with RCD					
3/4-pole (unless otherwise specified)					
3VA11 (160 A)	600	150	8PQ6000-8BA01	8PQ2015-6BA33	1 unit
	800	150	8PQ6000-8BA02	8PQ2015-8BA12	1 unit
3VA12 (250 A)	600	150 (3-pole)	8PQ6000-8BA03	8PQ2015-6BA35	1 unit
	600	200	8PQ6000-8BA05	8PQ2020-6BA43	1 unit
	800	200	8PQ6000-8BA07	8PQ2020-8BA22	1 unit
3VA20 (100 A)	600	200	8PQ6000-8BA11	8PQ2020-6BA45	1 unit
	800	200	8PQ6000-8BA10	8PQ2020-8BA23	1 unit
3VA21 (160 A)	600	200	8PQ6000-8BA11	8PQ2020-6BA45	1 unit
	800	200	8PQ6000-8BA10	8PQ2020-8BA23	1 unit
3VA22 (250 A)	600	200	8PQ6000-8BA11	8PQ2020-6BA45	1 unit
	800	200	8PQ6000-8BA10	8PQ2020-8BA23	1 unit
3VA23 (400 A)	800	250	8PQ6000-8BA27	8PQ2025-8BA15	1 unit
3VA24 (630 A)	800	250	8PQ6000-8BA27	8PQ2025-8BA15	1 unit
③ Plug-in version					
3/4-pole (unless otherwise specified)					
					
			Mounting plate	Modular door	
3VA11 (160 A)	600	150	8PQ6000-8BA01	8PQ2015-6BA31	1 unit
	800	150	8PQ6000-8BA02	8PQ2015-8BA12	1 unit
3VA12 (250 A)	600	150 (3-pole)	8PQ6000-8BA04	8PQ2015-6BA34	1 unit
	600	200	8PQ6000-8BA06	8PQ2020-6BA42	1 unit
	800	200	8PQ6000-8BA07	8PQ2020-8BA22	1 unit
3VA20 (100 A)	600	200	8PQ6000-8BA08	8PQ2020-6BA44	1 unit
	800	200	8PQ6000-8BA10	8PQ2020-8BA23	1 unit
3VA21 (160 A)	600	200	8PQ6000-8BA08	8PQ2020-6BA44	1 unit
	800	200	8PQ6000-8BA10	8PQ2020-8BA23	1 unit
3VA22 (250 A)	600	200	8PQ6000-8BA08	8PQ2020-6BA44	1 unit
	800	200	8PQ6000-8BA10	8PQ2020-8BA23	1 unit
3VA23 (400 A)	600	200 (3-pole)	8PQ6000-8BA24	8PQ2020-6BA46	1 unit
	600	250	8PQ6000-8BA26	8PQ2025-6BA24	1 unit
	800	250	8PQ6000-8BA28	8PQ2025-8BA15	1 unit
3VA24 (630 A)	600	200 (3-pole)	8PQ6000-8BA24	8PQ2020-6BA46	1 unit
	600	250	8PQ6000-8BA26	8PQ2025-6BA24	1 unit
	800	250	8PQ6000-8BA28	8PQ2025-8BA15	1 unit

SIVACON S4 Power Distribution Boards

Section Expansion

3VA molded case circuit breakers

Overview

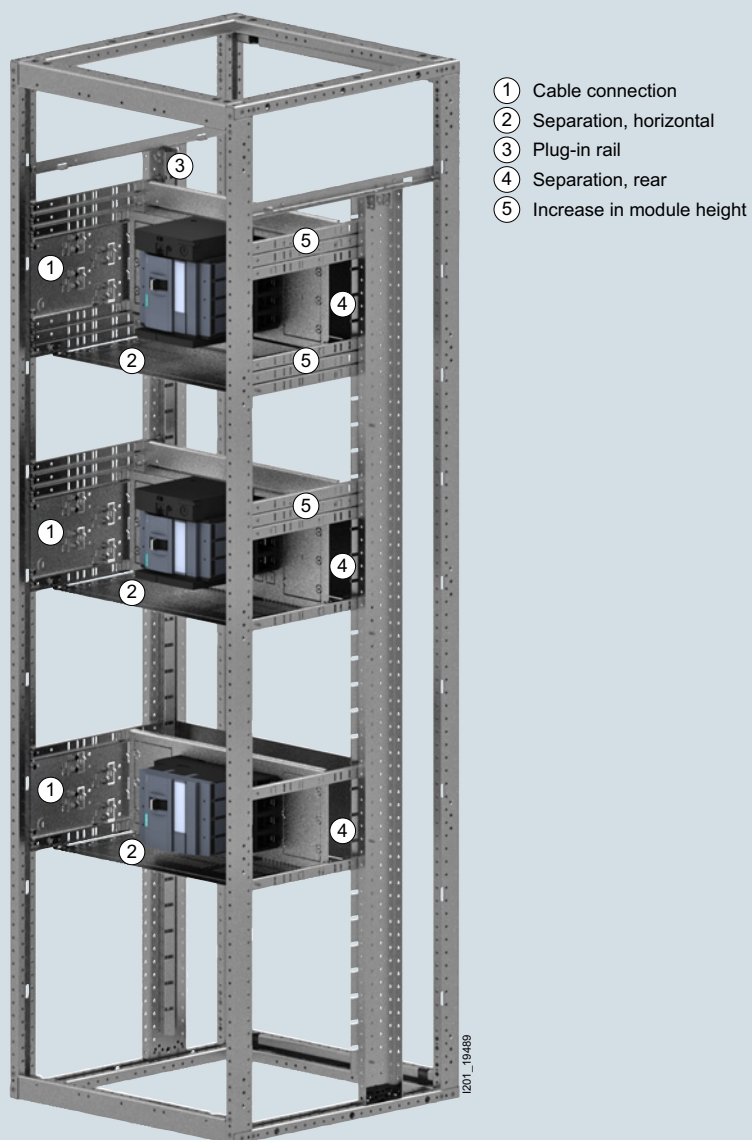
Form of internal separation – front connection

Features

- For implementation of forms 3b and 4b
- Suitable for connection with flexible busbars

Configuration

Increase in module height ⑤ required in the case of feeders with guide frame



SIVACON S4 Power Distribution Boards

Section Expansion

3VA molded case circuit breakers

Selection and ordering data

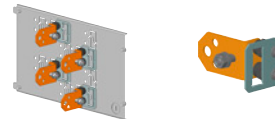
Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.	PS
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Molded case circuit breakers	Height mm	Installation system	Operator type				Cable connection	Terminal	
① Cable connections									
3-pole									
3VA12 (up to 250 A)	150	Fixed	✓	✓			8PQ6000-8BA12		1 unit
	150	Fixed			✓	✓	8PQ6000-8BA13		1 unit
	150	Plug-in socket	✓	✓			8PQ6000-8BA13		1 unit
	150	Plug-in socket			✓		8PQ6000-8BA12		1 unit
	150	Draw-out	✓		✓		8PQ6000-8BA12		1 unit
3VA22 (up to 250 A)	200	Fixed	✓	✓			8PQ6000-8BA16		1 unit
	200	Fixed			✓		8PQ6000-8BA17		1 unit
	200	Plug-in socket	✓	✓			8PQ6000-8BA17		1 unit
	200	Plug-in socket			✓	✓	8PQ6000-8BA16		1 unit
	200	Draw-out	✓		✓		8PQ6000-8BA16		1 unit
3VA23 (up to 400 A)	200	Fixed	✓	✓			8PQ6000-8BA20		1 unit
	200	Fixed			✓		8PQ6000-8BA18		1 unit
	200	Plug-in socket	✓	✓	✓	✓	8PQ6000-8BA18		1 unit
	200	Draw-out	✓		✓		8PQ6000-8BA20		1 unit
3VA24 (up to 630 A)	200	Fixed	✓	✓			8PQ6000-8BA20		1 unit
	200	Fixed			✓	✓	8PQ6000-8BA18		1 unit
	200	Plug-in socket	✓	✓	✓	✓	8PQ6000-8BA18		1 unit
	200	Draw-out	✓		✓		8PQ6000-8BA20		1 unit

4-pole

For 3VA22, order connecting terminal ③ for fourth pole separately


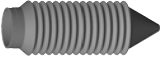


3VA12 (up to 250 A)	200	Fixed	✓	✓			8PQ6000-8BA14		1 unit
	200	Fixed			✓	✓	8PQ6000-8BA15		1 unit
	200	Plug-in socket	✓	✓			8PQ6000-8BA15		1 unit
	200	Plug-in socket			✓	✓	8PQ6000-8BA14		1 unit
3VA22 (up to 250 A)	200	Fixed	✓	✓			8PQ6000-8BA16	8PQ5000-4BA58	1 unit
	200	Fixed			✓	✓	8PQ6000-8BA17	8PQ5000-4BA58	1 unit
	200	Plug-in socket	✓	✓			8PQ6000-8BA17	8PQ5000-4BA58	1 unit
	200	Plug-in socket			✓	✓	8PQ6000-8BA16	8PQ5000-4BA58	1 unit
	200	Draw-out	✓		✓		8PQ6000-8BA16	8PQ5000-4BA58	1 unit
3VA23 (up to 400 A)	250	Fixed	✓	✓			8PQ6000-8BA22		1 unit
	250	Fixed			✓	✓	8PQ6000-8BA21		1 unit
	250	Plug-in socket	✓	✓	✓	✓	8PQ6000-8BA21		1 unit
	250	Draw-out	✓		✓		8PQ6000-8BA22		1 unit
3VA24 (up to 630 A)	250	Fixed	✓	✓			8PQ6000-8BA22		1 unit
	250	Fixed			✓	✓	8PQ6000-8BA21		1 unit
	250	Plug-in socket	✓	✓	✓	✓	8PQ6000-8BA21		1 unit
	250	Draw-out	✓		✓		8PQ6000-8BA22		1 unit

SIVACON S4 Power Distribution Boards

Section Expansion

3VA molded case circuit breakers

Version			Article No. www.siemens.com/ product?Article No.	PS
				
• Separation				
Circuit breaker	No. of poles	Width mm		
3VA12	3	600	8PQ5000-4BA68	1 unit
3VA12	4	600	8PQ5000-4BA68	1 unit
3VA20,-21,-22	3	600	8PQ5000-4BA70	1 unit
3VA20,-21,-22	4	600	8PQ5000-4BA70	1 unit
3VA23,-24	3	600	8PQ5000-4BA70	1 unit
3VA23,-24	4	600	8PQ5000-4BA70	1 unit
3VA12	3	800	8PQ5000-4BA71	1 unit
3VA12	4	800	8PQ5000-4BA71	1 unit
3VA20,-21,-22	3	800	8PQ5000-4BA72	1 unit
3VA20,-21,-22	4	800	8PQ5000-4BA72	1 unit
3VA23,-24	3	800	8PQ5000-4BA72	1 unit
3VA23,-24	4	800	8PQ5000-4BA72	1 unit
Form 4b				
				
Protective bellows <ul style="list-style-type: none"> • For covering the cable connecting terminal • 1 pack = 4 units 			8PQ9400-0BA71	1 unit

SIVACON S4 Power Distribution Boards

Section Expansion

3VA molded case circuit breakers

Overview

Form of internal separation – rear connection

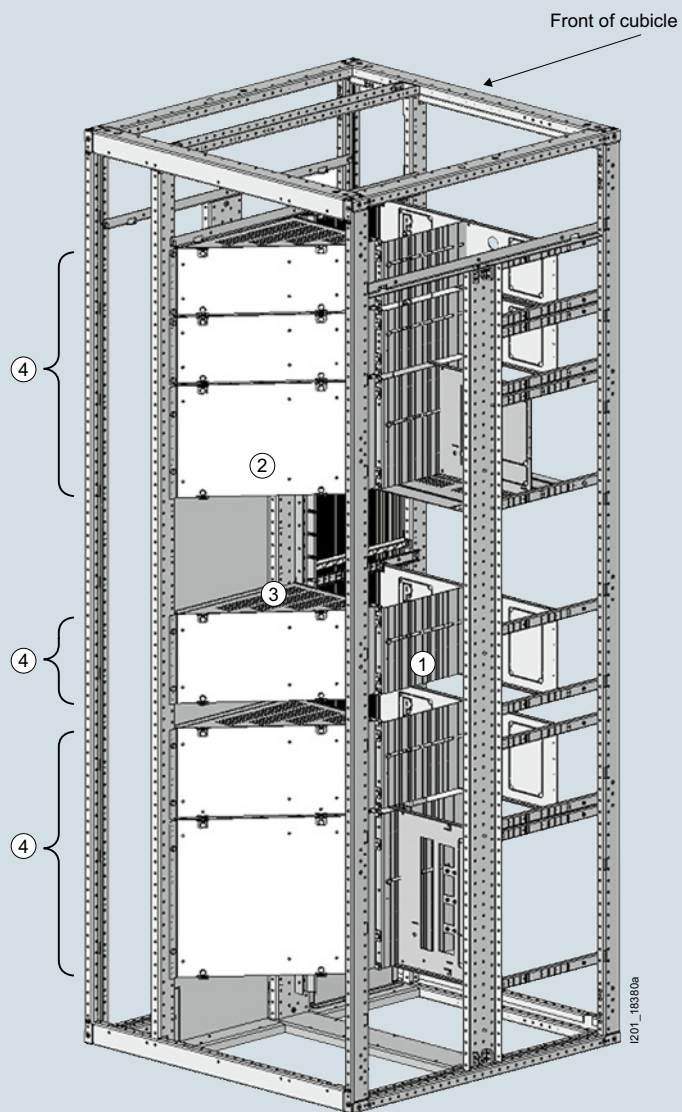
Features

- Modular system for rear device connection
- Connection is made by means of flexible insulated busbars

Configuration

- One basic module ① and vertical separation ② required for each separation kit
- Horizontal separation ③ forms top and bottom termination and is required once for each sub-segment.

Selection and ordering data

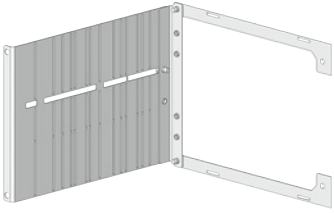
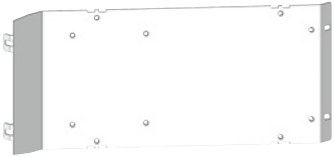
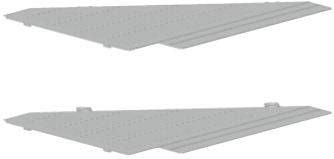


- ① Basic module
- ② Vertical separation
- ③ Horizontal separation
- ④ Sub-segments

SIVACON S4 Power Distribution Boards

Section Expansion

3VA molded case circuit breakers

Version		Article No. www.siemens.com/ product?Article No.	PS	
① Basic modules				
	Compartment width mm	Module height mm		
	600	150	8PQ5000-4BA73	1 unit
		200	8PQ5000-4BA74	1 unit
		250	8PQ5000-4BA75	1 unit
	800	150	8PQ5000-4BA76	1 unit
		200	8PQ5000-4BA77	1 unit
250		8PQ5000-4BA78	1 unit	
② Vertical separation				
	Compartment width mm	Module height mm		
	600	150	8PQ5000-3BA52	1 unit
		200	8PQ5000-3BA53	1 unit
		250	8PQ5000-3BA54	1 unit
		300	8PQ5000-3BA55	1 unit
		350	8PQ5000-3BA56	1 unit
		400	8PQ5000-4BA06	1 unit
	800	150	8PQ5000-3BA57	1 unit
		200	8PQ5000-3BA58	1 unit
		250	8PQ5000-3BA60	1 unit
		350	8PQ5000-3BA61	1 unit
		400	8PQ5000-4BA07	1 unit
450		8PQ5000-4BA08	1 unit	
③ Horizontal separation				
<ul style="list-style-type: none"> • Forms the top and bottom terminations • Required 1 × for each sub-segment • 1 set = 2 units 				
	Compartment width mm			
	600	8PQ5000-3BA63	1 unit	
	800	8PQ5000-3BA64	1 unit	

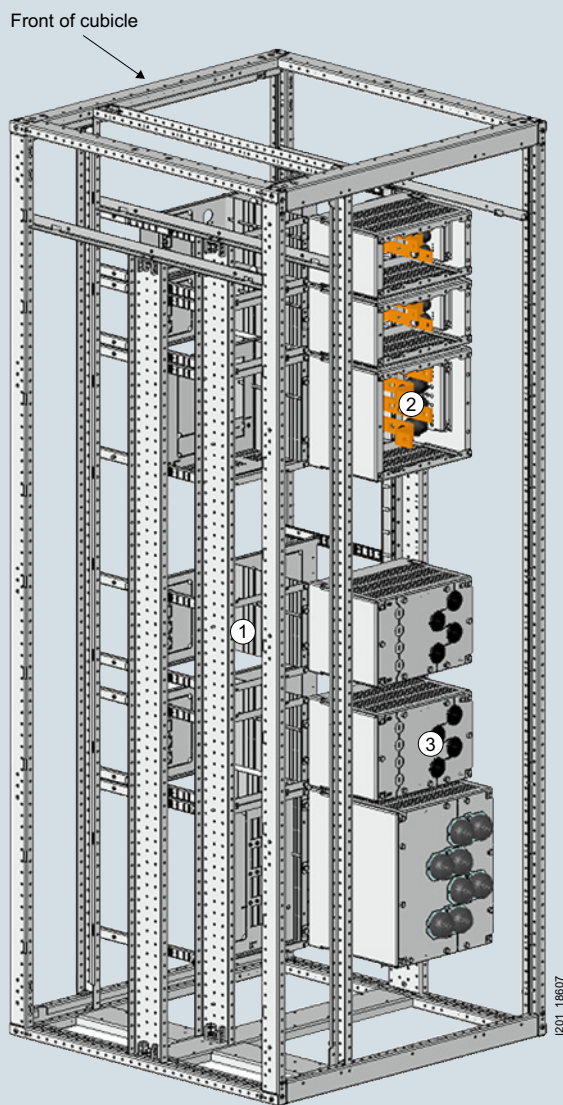
SIVACON S4 Power Distribution Boards

Section Expansion

3VA molded case circuit breakers

Configuration

For larger cable cross-sections an additional cable connection panel is required at the rear.

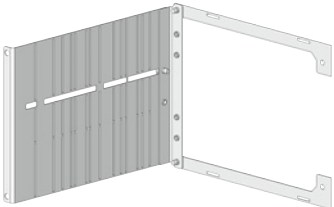
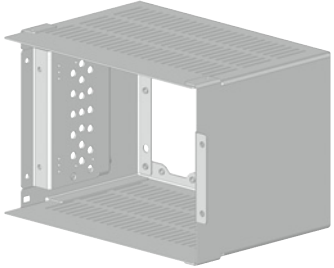
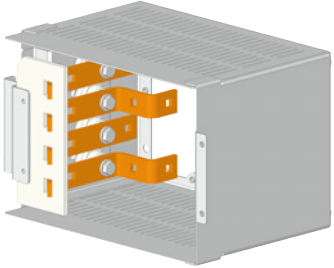


- ① Basic module, rear connection
- ② Cable connection compartment
- ③ Cover plate for cable connection compartment

SIVACON S4 Power Distribution Boards

Section Expansion

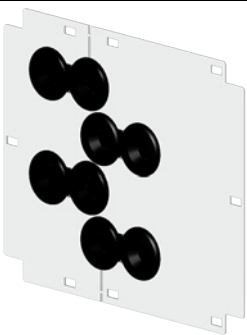
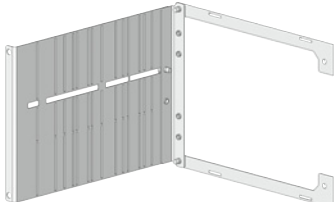
3VA molded case circuit breakers

Version		Article No. www.siemens.com/ product?Article No.	PS
			
① Basic modules			
Compartment width mm	Module height mm		
600	150	8PQ5000-4BA73	1 unit
	200	8PQ5000-4BA74	1 unit
	250	8PQ5000-4BA75	1 unit
800	150	8PQ5000-4BA76	1 unit
	200	8PQ5000-4BA77	1 unit
	250	8PQ5000-4BA78	1 unit
			
② Cable connection compartments			
<ul style="list-style-type: none"> • Cables are connected via 8WH terminal blocks, see Catalog LV 52 • Kit prepared for mounting of DIN rails • Not included in scope of supply 			
Versions	No. of poles	Module height mm	
3VA10, 3VA11	3	150	8PQ6000-5BA13
	4		8PQ6000-5BA13
3VA20, 3VA21	3	200	8PQ6000-5BA14
	4		8PQ6000-5BA14
			
Cable connecting bars made of copper			
Versions	No. of poles	Module height mm	
3VA12	3	150	8PQ6000-5BA15
	4		8PQ6000-5BA17
3VA22	3	200	8PQ6000-8BA30
	4		8PQ6000-5BA17
3VA23	3	200	8PQ6000-5BA18
	4		8PQ6000-5BA20
3VA24	3	200	8PQ6000-5BA18
	4		8PQ6000-5BA20

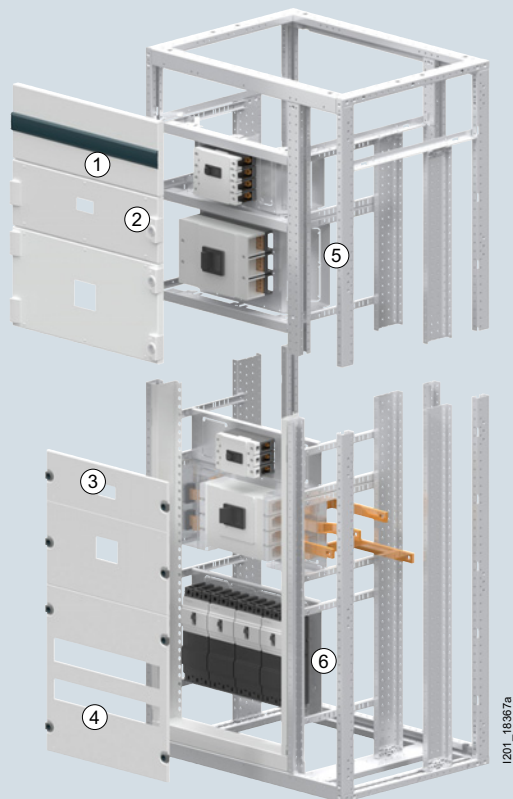
SIVACON S4 Power Distribution Boards

Section Expansion

3VA molded case circuit breakers

Version			Article No. www.siemens.com/ product?Article No.	PS
③ Cover plates				
	Versions	No. of poles	Module height mm	
	3VA10, 3VA11	3	150	8PQ5000-4BA80 1 unit
	3VA20, 3VA21	4	200	8PQ5000-3BA72 1 unit
	3VA12	3	150	8PQ5000-3BA71 1 unit
		4	200	8PQ5000-3BA72 1 unit
	3VA23	3	200	8PQ5000-3BA73 1 unit
		4	250	8PQ5000-3BA74 1 unit
	3VA24	3	200	8PQ5000-3BA73 1 unit
		4	250	8PQ5000-3BA74 1 unit
① Basic modules, fixed-mounted version				
	Compartment width mm	Module height mm		
	600	350	8PQ5000-3BA70	1 unit
		400	8PQ5000-4BA03	1 unit
	800	400	8PQ5000-4BA04	1 unit
		450	8PQ5000-4BA05	1 unit

Overview



- ① Head compartment cover
- ② Modular door for direct operating mechanism
- ③ Cover for single branch unit
- ④ Cover for multiple branch unit
- ⑤ Assembly kit, horizontal
- ⑥ Assembly kit, vertical

SIVACON S4 Power Distribution Boards

Section Expansion

3VL molded case circuit breakers

Internal cover – horizontal

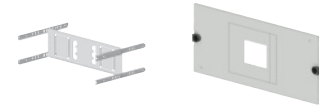
Selection and ordering data

Configuration

- Extended terminal covers required for front connection.
- Cover is prepared for a motorized operating mechanism with spring energy store.

Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.
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Fixed-mounted version



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	Mounting plate	Cover
VL160X	600	3	Front, rear	Direct, rotary and motorized	150	8PQ6000-4BA88	8PQ2015-6BA21
		4	Front, rear	Direct, rotary and motorized	200	8PQ6000-5BA01	8PQ2020-6BA26
	800	3/4	Front, rear	Direct, rotary and motorized	200	8PQ6000-4BA41	8PQ2020-8BA10
VL160/250	600	3	Front, rear	Direct, rotary and motorized	150	8PQ6000-5BA00	8PQ2015-6BA21
		4	Front, rear	Direct, rotary and motorized	200	8PQ6000-5BA02	8PQ2020-6BA26
	800	3/4	Front, rear	Direct, rotary and motorized	200	8PQ6000-4BA42	8PQ2020-8BA10
VL400	600	3	Front, rear	Direct, rotary and motorized	200	8PQ6000-2BA84	8PQ2020-6BA06
		4	Front, rear	Direct, rotary and motorized	250	8PQ6000-2BA87	8PQ2025-6BA02
	800	3/4	Front, rear	Direct, rotary and motorized	250	8PQ6000-4BA44	8PQ2025-8BA06
VL630	600	3	Front, rear	Direct, rotary and motorized	300	8PQ6000-3BA01	8PQ2030-6BA03
		4	Front, rear	Direct, rotary and motorized	350	8PQ6000-3BA10	8PQ2035-6BA04
	800	3/4	Front, rear	Direct, rotary and motorized	350	8PQ6000-4BA45	8PQ2035-8BA10



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	Crossbar	Cover
VL800	800	3/4	Front, rear	Direct, rotary and motorized	400	8PQ6000-4BA46	8PQ2040-8BA21
VL1250	800	3/4	Front, rear	Direct, motorized	450	8PQ6000-4BA47	8PQ2045-8BA05
VL1600	800	3/4	Front, rear	Direct, motorized	450	8PQ6000-4BA48	8PQ2045-8BA05

Selection and ordering data

Configuration

- Extended terminal covers required for front connection.
- Cover is prepared for a motorized operating mechanism with spring energy store.

Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.
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Fixed-mounted version with RCD



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	Mounting plate	Cover
VL160X	600	3	Front, rear	Direct	150	8PQ6000-4BA88	8PQ2015-6BA22
		4	Front, rear	Direct	200	8PQ6000-5BA01	8PQ2020-6BA27
	800	3/4	Front, rear	Direct	200	8PQ6000-4BA41	8PQ2020-8BA11
VL160/250	600	3	Front, rear	Direct, rotary, motorized	150	8PQ6000-5BA00	8PQ2015-6BA21
		4	Front, rear	Direct, rotary, motorized	200	8PQ6000-5BA02	8PQ2020-6BA26
	800	3/4	Front, rear	Direct, rotary, motorized	200	8PQ6000-4BA42	8PQ2020-8BA10
VL400	800	4	Front, rear	Direct, rotary, motorized	250	8PQ6000-4BA44	8PQ2025-8BA06

Plug-in version



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	Mounting plate	Cover
VL160X	600	3	Front, rear	Direct	150	8PQ6000-3BA24	8PQ2015-6BA21
		4	Front, rear	Direct	200	8PQ6000-3BA27	8PQ2020-6BA26
	800	3/4	Front, rear	Direct	200	8PQ6000-4BA43	8PQ2020-8BA10
VL160/250	600	3	Front, rear	Direct, rotary	150	8PQ6000-3BA24	8PQ2015-6BA21
		4	Front, rear	Direct, rotary	200	8PQ6000-3BA27	8PQ2020-6BA26
	800	3/4	Front, rear	Direct, rotary	200	8PQ6000-4BA43	8PQ2020-8BA10
VL400	600	3	Front, rear	Direct, rotary	200	8PQ6000-2BA84	8PQ2020-6BA06
		4	Front, rear	Direct, rotary	250	8PQ6000-2BA87	8PQ2025-6BA02
	800	3/4	Front, rear	Direct, rotary	250	8PQ6000-4BA44	8PQ2025-8BA06
VL630	600	3	Front, rear	Direct, rotary	300	8PQ6000-3BA01	8PQ2030-6BA03
		4	Front, rear	Direct, rotary	350	8PQ6000-3BA10	8PQ2035-6BA04
	800	3/4	Front, rear	Direct, rotary	350	8PQ6000-4BA45	8PQ2035-8BA10

SIVACON S4 Power Distribution Boards

Section Expansion

3VL molded case circuit breakers

Selection and ordering data

Configuration

- Extended terminal covers required for front connection.
- To improve the stability of the kits for VL400 and VL630 in draw-out version it is necessary to fit a reinforcement kit for each branch unit.

Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.
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Plug-in version with RCD



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	Mounting plate	Cover
VL160X	600	3	Front, rear	Direct	150	8PQ6000-2BA75	8PQ2015-6BA06
		4	Front, rear	Direct	200	8PQ6000-2BA81	8PQ2020-6BA07
	800	3/4	Front, rear	Direct	200	8PQ6000-4BA43	8PQ2020-8BA11
VL160/250	600	3	Front, rear	Direct, rotary	150	8PQ6000-2BA75	8PQ2015-6BA04
		4	Front, rear	Direct, rotary	200	8PQ6000-2BA81	8PQ2020-6BA05
	800	3/4	Front, rear	Direct, rotary	200	8PQ6000-4BA43	8PQ2020-8BA10
VL400	800	4	Front, rear	Direct, rotary	250	8PQ6000-4BA44	8PQ2025-8BA06

Draw-out version



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	Mounting plate	Cover
VL160/250	600	3/4	Front, rear	Direct, rotary	250	8PQ6000-3BA27	8PQ2020-6BA21
	800	3/4	Front, rear	Direct, rotary	250	8PQ6000-4BA43	8PQ2025-8BA07
VL400	600	3/4	Front, rear	Direct, rotary	300	8PQ6000-2BA87	8PQ2025-6BA11
	800	3/4	Front, rear	Direct, rotary	300	8PQ6000-4BA44	8PQ2030-8BA08
VL630	600	3	Front, rear	Direct, rotary	300	8PQ6000-3BA01	8PQ2030-6BA17
		4	Front, rear	Direct, rotary	350	8PQ6000-3BA10	8PQ2035-6BA17
	800	3/4	Front, rear	Direct, rotary	350	8PQ6000-4BA45	8PQ2035-8BA11



VL800	800	3/4	Front, rear	Direct	500	8PQ6000-4BA56	8PQ2050-8BA05
VL1250	800	3/4	Front, rear	Direct	500	8PQ6000-4BA56	8PQ2050-8BA06
VL1600	800	3/4	Front, rear	Direct	500	8PQ6000-4BA56	8PQ2050-8BA06

Reinforcement for draw-out version



Circuit breaker	No. of poles	Reinforcement
VL400	3/4	8PQ6000-4BA17
VL630	3	8PQ6000-4BA20
VL630	4	8PQ6000-4BA18

Internal cover – vertical

Selection and ordering data

Configuration

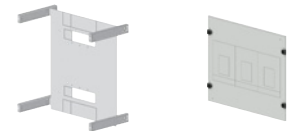
- Cover is prepared for a motorized operating mechanism with spring energy store.
- For vertical assembly kits that are equipped with a motorized operating mechanism, the adjacent mounting space must be left empty so that the mechanism can be tensioned by hand.

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Fixed-mounted version



Circuit breaker		Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	No. of circuit breakers	Mounting plate	Cover	
VL160X	600	600	3	Front, rear	Direct, rotary, motorized	350	1 ... 4	8PQ6000-2BA76	8PQ2035-6BA02	
			4	Front, rear	Direct, rotary, motorized	350	1 ... 3	8PQ6000-2BA82	8PQ2035-6BA03	
	800	800	3	Front, rear	Direct, rotary, motorized	350	1 ... 5	8PQ6000-2BA77	8PQ2035-8BA02	
			4	Front, rear	Direct, rotary, motorized	350	1 ... 4	8PQ6000-2BA83	8PQ2035-8BA03	
VL160/250	600	600	3	Front, rear	Direct, rotary, motorized	350	1 ... 4	8PQ6000-3BA16	8PQ2035-6BA02	
			4	Front, rear	Direct, rotary, motorized	350	1 ... 3	8PQ6000-3BA22	8PQ2035-6BA03	
	800	800	3	Front, rear	Direct, rotary, motorized	350	1 ... 5	8PQ6000-3BA17	8PQ2035-8BA02	
			4	Front, rear	Direct, rotary, motorized	350	1 ... 4	8PQ6000-3BA23	8PQ2035-8BA03	
	VL400	b 600	600	3	Front, rear	Direct, rotary, motorized	400	1 ... 3	8PQ6000-2BA85	8PQ2040-6BA07
				4	Front, rear	Direct, rotary, motorized	400	1 ... 2	8PQ6000-2BA88	8PQ2040-6BA05
b 800		800	3	Front, rear	Direct, rotary, motorized	400	1 ... 4	8PQ6000-2BA86	8PQ2040-8BA08	
			4	Front, rear	Direct, rotary, motorized	400	1 ... 3	8PQ6000-3BA00	8PQ2040-8BA07	
VL630	b 600	600	3	Front, rear	Direct, rotary, motorized	400	1 ... 2	8PQ6000-3BA02	8PQ2040-6BA06	
			4	Front, rear	Direct, rotary, motorized	400	1	8PQ6000-3BA05	8PQ2040-6BA08	
	b 800	800	3	Front, rear	Direct, rotary, motorized	400	1 ... 3	8PQ6000-3BA03	8PQ2040-8BA06	
			4	Front, rear	Direct, rotary, motorized	400	1 ... 2	8PQ6000-3BA06	8PQ2040-8BA05	



Circuit breaker		Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	No. of circuit breakers	Crossbar	Cover
VL800	b	600	3/4	Front, rear	Direct, rotary, motorized	600	1	8PQ6000-3BA07	8PQ2060-6BA02
VL1250	b	600	3/4	Front, rear	Direct, motorized	600	1	8PQ6000-3BA11	8PQ2060-6BA03
VL1600	b	600	3/4	Front, rear	Direct, motorized	700	1	8PQ6000-3BA12	8PQ2070-6BA01

b For front terminal bars, two additional covers, height 100 mm each, are required. Moreover, extended terminal covers have to be ordered for the respective circuit breaker.

SIVACON S4 Power Distribution Boards

Section Expansion

3VL molded case circuit breakers

Selection and ordering data

Configuration

- Cover is prepared for a motorized operating mechanism with spring energy store.
- For vertical assembly kits that are equipped with a motorized operating mechanism, the adjacent mounting space must be left empty so that the mechanism can be tensioned by hand.

Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.
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Fixed-mounted version with RCD



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	No. of circuit breakers	Mounting plate	Cover
VL160X	600	3	Front, rear	Direct	500	1 ... 4	8PQ6000-2BA76	8PQ2050-6BA05
		4	Front, rear	Direct	500	1 ... 3	8PQ6000-2BA82	8PQ2050-6BA06
	800	3	Front, rear	Direct	500	1 ... 5	8PQ6000-2BA77	8PQ2050-8BA07
		4	Front, rear	Direct	500	1 ... 4	8PQ6000-2BA83	8PQ2050-8BA08
VL160/250	600	3	Front, rear	Direct, rotary, motorized	500	1 ... 4	8PQ6000-3BA16	8PQ2050-6BA07
		4	Front, rear	Direct, rotary, motorized	500	1 ... 3	8PQ6000-3BA22	8PQ2050-6BA08
	800	3	Front, rear	Direct, rotary, motorized	500	1 ... 5	8PQ6000-3BA17	8PQ2050-8BA10
		4	Front, rear	Direct, rotary, motorized	500	1 ... 4	8PQ6000-3BA23	8PQ2050-8BA11

Plug-in version



Circuit breaker		Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	No. of circuit breakers	Mounting plate	Cover	
VL160X	a	600	3	Front, rear	Direct, rotary	350	1 ... 4	8PQ6000-3BA25	8PQ2035-6BA02	
	a		4	Front, rear	Direct, rotary	350	1 ... 3	8PQ6000-3BA28	8PQ2035-6BA03	
	a	800	3	Front, rear	Direct, rotary	350	1 ... 5	8PQ6000-3BA26	8PQ2035-8BA02	
			4	Front, rear	Direct, rotary	350	1 ... 4	8PQ6000-3BA30	8PQ2035-8BA03	
VL160/250	a	600	3	Front, rear	Direct, rotary	350	1 ... 4	8PQ6000-3BA25	8PQ2035-6BA02	
			4	Front, rear	Direct, rotary	350	1 ... 3	8PQ6000-3BA28	8PQ2035-6BA03	
	a	800	3	Front, rear	Direct, rotary	350	1 ... 5	8PQ6000-3BA26	8PQ2035-8BA02	
			4	Front, rear	Direct, rotary	350	1 ... 4	8PQ6000-3BA30	8PQ2035-8BA03	
	VL400	b	600	3	Front, rear	Direct, rotary	400	1 ... 3	8PQ6000-2BA85	8PQ2040-6BA07
				4	Front, rear	Direct, rotary	400	1 ... 2	8PQ6000-2BA88	8PQ2040-6BA05
b		800	3	Front, rear	Direct, rotary	400	1 ... 4	8PQ6000-2BA86	8PQ2040-8BA08	
			4	Front, rear	Direct, rotary	400	1 ... 3	8PQ6000-3BA00	8PQ2040-8BA07	
VL630	b	600	3	Front, rear	Direct, rotary	400	1 ... 2	8PQ6000-3BA02	8PQ2040-6BA06	
			4	Front, rear	Direct, rotary	400	1	8PQ6000-3BA05	8PQ2040-6BA08	
	b	800	3	Front, rear	Direct, rotary	400	1 ... 3	8PQ6000-3BA03	8PQ2040-8BA06	
			4	Front, rear	Direct, rotary	400	1 ... 2	8PQ6000-3BA06	8PQ2040-8BA05	

a For front terminal bars, two additional covers, height 50 mm each, are required. Moreover, extended terminal covers have to be ordered for the respective circuit breaker.

b For front terminal bars, two additional covers, height 100 mm each, are required. Moreover, extended terminal covers have to be ordered for the respective circuit breaker.

SIVACON S4 Power Distribution Boards

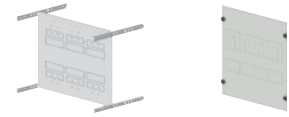
Section Expansion

3VL molded case circuit breakers

Selection and ordering data

Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.
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Plug-in version with RCD



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	No. of circuit breakers	Mounting plate	Cover
VL160X	600	3	Front, rear	Direct	500	1 ... 4	8PQ6000-3BA25	8PQ2050-6BA05
		4	Front, rear	Direct	500	1 ... 3	8PQ6000-3BA28	8PQ2050-6BA06
	800	3	Front, rear	Direct	500	1 ... 5	8PQ6000-3BA26	8PQ2050-8BA07
		4	Front, rear	Direct	500	1 ... 4	8PQ6000-3BA30	8PQ2050-8BA08
VL160/250	600	3	Front, rear	Direct, rotary	500	1 ... 4	8PQ6000-3BA25	8PQ2050-6BA07
		4	Front, rear	Direct, rotary	500	1 ... 3	8PQ6000-3BA28	8PQ2050-6BA08
	800	3	Front, rear	Direct, rotary	500	1 ... 5	8PQ6000-3BA26	8PQ2050-8BA10
		4	Front, rear	Direct, rotary	500	1 ... 4	8PQ6000-3BA30	8PQ2050-8BA11

Draw-out version



Circuit breaker		Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	No. of circuit breakers	Mounting plate	Cover
VL160/250	a	800	3	Front, rear	Direct, rotary	350	1 ... 3	8PQ6000-3BA26	8PQ2035-8BA08
	a		4	Front, rear	Direct, rotary	350	1 ... 2	8PQ6000-3BA30	8PQ2040-8BA15
VL400	b	600	3/4	Front, rear	Direct, rotary	400	1	8PQ6000-2BA88	8PQ2040-6BA17
	b		3	Front, rear	Direct, rotary	400	1 ... 2	8PQ6000-2BA86	8PQ2040-8BA16
			b	4	Front, rear	Direct, rotary	400	1	8PQ6000-3BA00
VL630	b	600	3/4	Front, rear	Direct, rotary	400	1	8PQ6000-3BA05	8PQ2060-6BA12
	b		800	3/4	Front, rear	Direct, rotary	400	1	8PQ6000-3BA06

Draw-out version

Minimum frame depth: 600 mm



Circuit breaker		Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	No. of circuit breakers	Mounting plate	Cover
VL800	b	600	3	Front, rear	Direct	600	1	8PQ6000-3BA87	8PQ2060-6BA13
	b		4	Front, rear	Direct	600	1	8PQ6000-3BA88	8PQ2060-6BA14
VL1250/1600	b	600	3	Front, rear	Direct	650	1	8PQ6000-4BA00	8PQ2065-6BA05
	b		4	Front, rear	Direct	650	1	8PQ6000-4BA01	8PQ2065-6BA06

a For front terminal bars, two additional covers, height 50 mm each, are required. Moreover, extended terminal covers have to be ordered for the respective circuit breaker.

b For front terminal bars, two additional covers, height 100 mm each, are required. Moreover, extended terminal covers have to be ordered for the respective circuit breaker.

SIVACON S4 Power Distribution Boards

Section Expansion

3VL molded case circuit breakers

Modular door – horizontal

Selection and ordering data

Configuration

- Extended terminal covers required for front connection.

Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.
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Fixed-mounted version with direct operating mechanism



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	Mounting plate	Modular door
VL160X	600	3	Front, rear	Direct	150	8PQ6000-6BA27	8PQ2015-6BA23
		4	Front, rear	Direct	200	8PQ6000-6BA34	8PQ2020-6BA30
	800	3/4	Front, rear	Direct	200	8PQ6000-6BA41	8PQ2020-8BA15
VL160/250	600	3	Front, rear	Direct	150	8PQ6000-6BA30	8PQ2015-6BA23
		4	Front, rear	Direct	200	8PQ6000-6BA36	8PQ2020-6BA30
	800	3/4	Front, rear	Direct	200	8PQ6000-6BA42	8PQ2020-8BA15
VL400	600	3	Front, rear	Direct	200	8PQ6000-6BA44	8PQ2020-6BA33
		4	Front, rear	Direct	250	8PQ6000-6BA45	8PQ2025-6BA20
	800	3/4	Front, rear	Direct	250	8PQ6000-6BA46	8PQ2025-8BA11
VL630	600	3	Front, rear	Direct	300	8PQ6000-6BA47	8PQ2030-6BA24
		4	Front, rear	Direct	350	8PQ6000-6BA48	8PQ2035-6BA23
	800	3/4	Front, rear	Direct	350	8PQ6000-6BA50	8PQ2035-8BA14



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	Crossbar	Cover
VL800	800	3/4	Front, rear	Direct	400	8PQ6000-4BA46	8PQ2040-8BA22
VL1250	800	3/4	Front, rear	Direct	450	8PQ6000-4BA47	8PQ2045-8BA07
VL1600	800	3/4	Front, rear	Direct	450	8PQ6000-4BA48	8PQ2045-8BA07

SIVACON S4 Power Distribution Boards

Section Expansion

3VL molded case circuit breakers

Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.
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Fixed-mounted version with door-coupling rotary operating mechanism



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	Mounting plate	Modular door
VL160X	600	3	Front, rear	8UC door coupling, size 1	150	8PQ6000-4BA88	8PQ2015-6BA14
		4	Front, rear	8UC door coupling, size 1	200	8PQ6000-5BA01	8PQ2020-6BA16
VL160/250	600	3/4	Front, rear	8UC door coupling, size 1	200	8PQ6000-4BA41	8PQ2020-8BA12
		3	Front, rear	8UC door coupling, size 1	150	8PQ6000-5BA00	8PQ2015-6BA14
VL160/250	600	4	Front, rear	8UC door coupling, size 1	200	8PQ6000-5BA02	8PQ2020-6BA16
		3/4	Front, rear	8UC door coupling, size 1	200	8PQ6000-4BA42	8PQ2020-8BA12
VL400	600	3	Front, rear	8UC door coupling, size 2	200	8PQ6000-2BA84	8PQ2020-6BA20
		4	Front, rear	8UC door coupling, size 2	250	8PQ6000-2BA87	8PQ2025-6BA10
VL400	600	3/4	Front, rear	8UC door coupling, size 2	250	8PQ6000-4BA44	8PQ2025-8BA08
		800	3	Front, rear	8UC door coupling, size 2	300	8PQ6000-3BA01
VL630	600	4	Front, rear	8UC door coupling, size 2	350	8PQ6000-3BA10	8PQ2035-6BA15
		3/4	Front, rear	8UC door coupling, size 2	350	8PQ6000-4BA45	8PQ2035-8BA12



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	Crossbar	Modular door
VL800	800	3/4	Front, rear	8UC door coupling, size 2	400	8PQ6000-4BA46	8PQ2035-8BA13
VL1250	800	3/4	Front, rear	8UC door coupling, size 3	450	8PQ6000-4BA47	8PQ2045-8BA06
VL1600	800	3/4	Front, rear	8UC door coupling, size 3	450	8PQ6000-4BA48	8PQ2045-8BA06

Fixed-mounted version with RCD



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	Mounting plate	Modular door
VL160X	600	3	Front, rear	Direct	150	8PQ6000-6BA28	8PQ2015-6BA24
		4	Front, rear	Direct	200	8PQ6000-6BA35	8PQ2020-6BA31
VL160X	800	3/4	Front, rear	Direct	200	8PQ6000-6BA41	8PQ2020-8BA16
		3	Front, rear	Direct	150	8PQ6000-6BA31	8PQ2015-6BA25
VL160/250	600	4	Front, rear	Direct	200	8PQ6000-6BA37	8PQ2020-6BA32
		3	Front, rear	8UC door coupling, size 1	150	8PQ6000-5BA00	8PQ2015-6BA16
VL160/250	600	4	Front, rear	8UC door coupling, size 1	200	8PQ6000-5BA02	8PQ2020-6BA16
		3/4	Front, rear	Direct	200	8PQ6000-6BA42	8PQ2020-8BA15
VL160/250	800	3/4	Front, rear	8UC door coupling, size 1	200	8PQ6000-4BA42	8PQ2020-8BA12
		4	Front, rear	Direct	250	8PQ6000-6BA46	8PQ2025-8BA11
VL400	800	4	Front, rear	8UC door coupling, size 2	250	8PQ6000-4BA44	8PQ2025-8BA08

SIVACON S4 Power Distribution Boards

Section Expansion

3VL molded case circuit breakers

Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.
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Plug-in version with direct operating mechanism



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	Mounting plate	Modular door
VL160X	600	3	Front, rear	Direct	150	8PQ6000-6BA32	8PQ2015-6BA23
		4	Front, rear	Direct	200	8PQ6000-6BA38	8PQ2020-6BA30
VL160/250	600	3	Front, rear	Direct	150	8PQ6000-6BA32	8PQ2015-6BA24
		4	Front, rear	Direct	200	8PQ6000-6BA38	8PQ2020-6BA30
		3/4	Front, rear	Direct	200	8PQ6000-6BA43	8PQ2020-8BA15
VL400	600	3	Front, rear	Direct	200	8PQ6000-6BA44	8PQ2020-6BA33
		4	Front, rear	Direct	250	8PQ6000-6BA45	8PQ2025-6BA20
		3/4	Front, rear	Direct	250	8PQ6000-6BA46	8PQ2025-8BA11
VL630	600	3	Front, rear	Direct	300	8PQ6000-6BA47	8PQ2030-6BA24
		4	Front, rear	Direct	350	8PQ6000-6BA48	8PQ2035-6BA23
		3/4	Front, rear	Direct	350	8PQ6000-6BA50	8PQ2035-8BA14

Plug-in version with door-coupling rotary operating mechanism



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	Mounting plate	Modular door
VL160X	600	3	Front, rear	8UC door coupling, size 1	150	8PQ6000-3BA24	8PQ2015-6BA14
		4	Front, rear	8UC door coupling, size 1	200	8PQ6000-3BA27	8PQ2020-6BA16
		3/4	Front, rear	8UC door coupling, size 1	200	8PQ6000-4BA43	8PQ2020-8BA12
VL160/250	600	3	Front, rear	8UC door coupling, size 1	150	8PQ6000-3BA24	8PQ2015-6BA14
		4	Front, rear	8UC door coupling, size 1	200	8PQ6000-3BA27	8PQ2020-6BA16
		3/4	Front, rear	8UC door coupling, size 1	200	8PQ6000-4BA43	8PQ2020-8BA12
VL400	600	3	Front, rear	8UC door coupling, size 2	200	8PQ6000-2BA84	8PQ2020-6BA20
		4	Front, rear	8UC door coupling, size 2	250	8PQ6000-2BA87	8PQ2025-6BA10
		3/4	Front, rear	8UC door coupling, size 2	250	8PQ6000-4BA44	8PQ2025-8BA08
VL630	600	3	Front, rear	8UC door coupling, size 2	300	8PQ6000-3BA01	8PQ2030-6BA15
		4	Front, rear	8UC door coupling, size 2	350	8PQ6000-3BA10	8PQ2035-6BA15
		3/4	Front, rear	8UC door coupling, size 2	350	8PQ6000-4BA45	8PQ2035-8BA12

Plug-in version with RCD



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	Mounting plate	Modular door
VL160X	600	3	Front, rear	Direct	150	8PQ6000-6BA33	8PQ2015-6BA24
		4	Front, rear	Direct	200	8PQ6000-6BA40	8PQ2020-6BA31
		3/4	Front, rear	Direct	200	8PQ6000-6BA43	8PQ2020-8BA16
VL160/250	600	3	Front, rear	Direct	150	8PQ6000-6BA33	8PQ2015-6BA25
		4	Front, rear	Direct	200	8PQ6000-6BA40	8PQ2020-6BA32
		3	Front, rear	8UC door coupling, size 1	150	8PQ6000-2BA75	8PQ2015-6BA16
		4	Front, rear	8UC door coupling, size 1	200	8PQ6000-2BA81	8PQ2020-6BA17
		3/4	Front, rear	Direct	200	8PQ6000-6BA43	8PQ2020-8BA15
		3/4	Front, rear	8UC door coupling, size 1	200	8PQ6000-4BA43	8PQ2020-8BA12
VL400	800	4	Front, rear	Direct	250	8PQ6000-6BA46	8PQ2025-8BA11
		4	Front, rear	8UC door coupling, size 2	250	8PQ6000-4BA44	8PQ2025-8BA08

Modular door – vertical

Selection and ordering data

Configuration

- Extended terminal covers required for front connection.

Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.
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Fixed-mounted version with direct operating mechanism



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	No. of circuit breakers	Mounting plate	Modular door
VL630	600	3/4	Front, rear	Direct	600	1	8PQ6000-6BA51	8PQ2060-6BA24
VL800	600	3/4	Front, rear	Direct	800	1	8PQ6000-3BA12	8PQ2080-6BA11
VL1250	600	3/4	Front, rear	Direct	800	1	8PQ6000-3BA11	8PQ2080-6BA11
VL1600	600	3/4	Front, rear	Direct	900	1	8PQ6000-3BA07	8PQ2090-6BA04

Fixed-mounted version with door-coupling rotary operating mechanism



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	No. of circuit breakers	Mounting plate	Modular door
VL630	400	3/4	Front, rear	8UC door coupling, size 2	550	1	8PQ6000-4BA60	8PQ2055-4BA13
	600	3/4	Rear	8UC door coupling, size 2	400	1	8PQ6000-3BA05	8PQ2040-6BA16
		3/4	Front	8UC door coupling, size 2	600	1	8PQ6000-3BA05	8PQ2060-6BA17
VL800	400	3/4	Front, rear	8UC door coupling, size 2	550	1	8PQ6000-4BA87	8PQ2055-4BA13
	600	3/4	Rear	8UC door coupling, size 2	600	1	8PQ6000-3BA07	8PQ2060-6BA10
		3/4	Front	8UC door coupling, size 2	800	1	8PQ6000-3BA07	8PQ2080-6BA05
VL1250	400	3/4	Front, rear	8UC door coupling, size 3	550	1	8PQ6000-4BA61	8PQ2055-4BA14
	600	3/4	Rear	8UC door coupling, size 3	600	1	8PQ6000-3BA11	8PQ2060-6BA11
		3/4	Front	8UC door coupling, size 3	800	1	8PQ6000-3BA11	8PQ2080-6BA06
VL1600	400	3/4	Front, rear	8UC door coupling, size 3	550	1	8PQ6000-4BA61	8PQ2055-4BA14
	600	3/4	Rear	8UC door coupling, size 3	700	1	8PQ6000-3BA12	8PQ2070-6BA02
		3/4	Front	8UC door coupling, size 3	900	1	8PQ6000-3BA12	8PQ2090-6BA01

Touch protection cover cable connection



Circuit breaker	Compartment width mm	No. of poles	Height mm	Cover
VL630, VL800, VL1250, VL1600	400	3/4	400	8PQ5000-3BA15

SIVACON S4 Power Distribution Boards

Section Expansion

3VL molded case circuit breakers

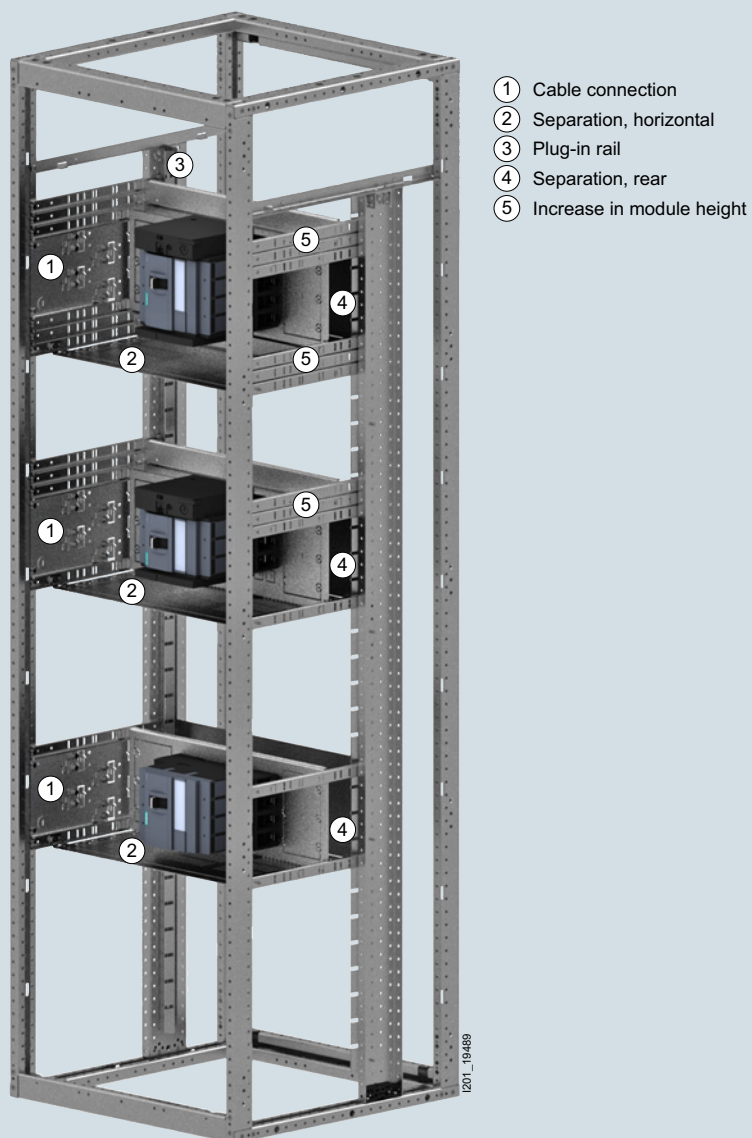
Form of internal separation – front connection

Features

- For implementation of forms 3b and 4b
- Suitable for connection with flexible busbars

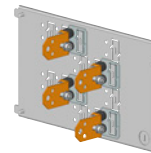
Configuration

Increase in module height ⑤ required in the case of feeders with guide frame



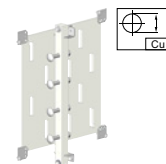
Selection and ordering data

① Cable connection for flexible busbars



Circuit breaker	Compartment height in mm	No. of poles	Installation system	Operating mechanism	Article No. www.siemens.com/product?Article No.
VL250	150	3	Fixed Plug-in	Direct, front Direct, door coupling, motorized	8PQ6000-7BA55 8PQ6000-7BA56
	200	4	Fixed Plug-in	Direct, front Direct, door coupling, motorized	8PQ6000-7BA57 8PQ6000-7BA58
VL400	200	3	Fixed Plug-in	Direct, front Direct, door coupling	8PQ6000-7BA51 8PQ6000-7BA52
	250	4	Fixed Plug-in	Direct, front, motorized Direct, door coupling	8PQ6000-7BA53 8PQ6000-7BA54
VL630	300	3	Fixed Plug-in	Direct, front, motorized Direct, door coupling	8PQ6000-7BA36 8PQ6000-7BA37
	350	4	Fixed Plug-in	Direct, front, motorized Direct, door coupling	8PQ6000-7BA38 8PQ6000-7BA50

Cable connection for copper connection



Circuit breaker	Compartment height in mm	No. of poles	Installation system	Operating mechanism	Article No. www.siemens.com/product?Article No.
VL800	400	4	Fixed Fixed	Direct Direct, door coupling	8PQ6000-7BA30 8PQ6000-7BA31
	500	4	Draw-out	Direct	8PQ6000-7BA34
VL1250, VL1600	450	4	Fixed Fixed	Direct Door coupling	8PQ6000-7BA32 8PQ6000-7BA33
	500	4	Draw-out	Direct	8PQ6000-7BA35

SIVACON S4 Power Distribution Boards

Section Expansion

3VL molded case circuit breakers

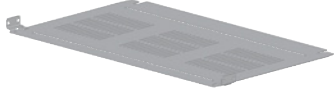



3VL molded case circuit breakers

Features

- Required for form of internal separation 3b and 4b

Configuration


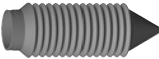
- Increase in module height ⑤ required in the case of feeders with guide frame

	Version	Article No. www.siemens.com/ product?Article No.	PS	
	② Horizontal separation			
	Compartment width mm			
	400	8PQ5000-3BA44	1 unit	
	600	8PQ5000-2BA61	1 unit	
	③ Plug-in rails			
	Equipment height mm	Busbar system		
	1600	Top	8PQ3000-0BA82 1 unit	
	1800	Rear or without	8PQ3000-0BA83 1 unit	
	④ Rear separation			
	Not applicable for frame depth 400			
	Compartment width mm	Mounting height mm		
	600	50	8PQ5000-2BA51	1 unit
		100	8PQ5000-2BA52	1 unit
		150	8PQ5000-4BA40	1 unit
		200	8PQ5000-4BA41	1 unit
		250	8PQ5000-4BA42	1 unit
		300	8PQ5000-4BA43	1 unit
		350	8PQ5000-4BA44	1 unit
		400	8PQ5000-4BA45	1 unit
	800	450	8PQ5000-4BA46	1 unit
		550	8PQ5000-4BA47	1 unit
		50	8PQ5000-2BA67	1 unit
100		8PQ5000-2BA68	1 unit	
200		8PQ5000-4BA48	1 unit	
250		8PQ5000-4BA50	1 unit	
	⑤ Increase in module height			
	Circuit breaker	No. of poles	Width mm	
			Height mm	
	VL 160, VL250	3	600	50
	8PQ5000-4BA64			1 unit
	VL160, VL250	4	600	50
	8PQ5000-4BA64			1 unit
	VL400	3	600	50
	8PQ5000-4BA64			1 unit
	VL400	4	600	50
8PQ5000-4BA64			1 unit	
VL 160, VL250	3 / 4	800	50	
8PQ5000-4BA65			1 unit	
VL400	3 / 4	800	50	
8PQ5000-4BA65			1 unit	

SIVACON S4 Power Distribution Boards

Section Expansion

3VL molded case circuit breakers

Version			Article No. www.siemens.com/ product?Article No.	PS
				
• Separation				
Circuit breaker	No. of poles	Width mm		
VL160, VL250	3	600	8PQ5000-4BA66	1 unit
VL160, VL250	4	600	8PQ5000-4BA66	1 unit
VL400	3	600	8PQ5000-4BA66	1 unit
VL400	4	600	8PQ5000-4BA66	1 unit
VL160, VL250	3 / 4	800	8PQ5000-4BA67	1 unit
VL400	3 / 4	800	8PQ5000-4BA67	1 unit
Form 4b				
				
Protective bellows <ul style="list-style-type: none"> • For covering the cable connecting terminal • 1 pack = 4 units 			8PQ9400-0BA71	1 unit

SIVACON S4 Power Distribution Boards

Section Expansion

3VL molded case circuit breakers

Overview

Form of internal separation – rear connection

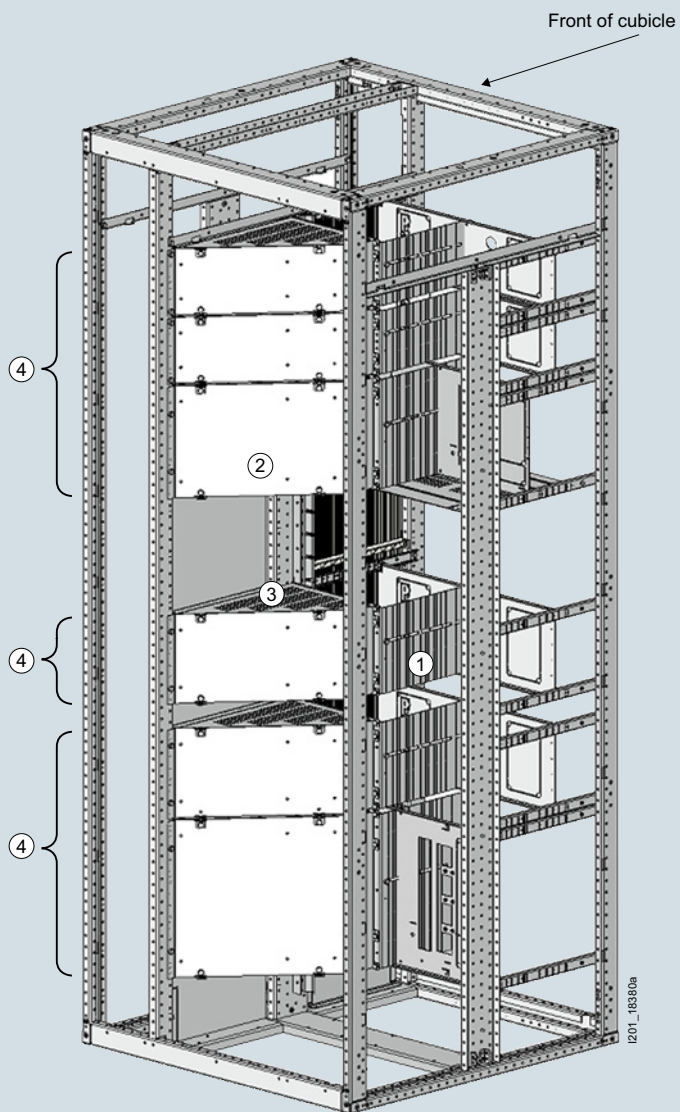
Features

- Modular system for rear device connection
- Connection is made by means of flexible insulated busbars

Configuration

- One basic module ① and vertical separation ② required for each separation kit
- Horizontal separation ③ forms top and bottom termination and is required once for each sub-segment.

Selection and ordering data

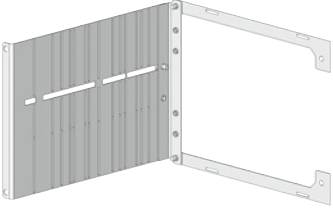
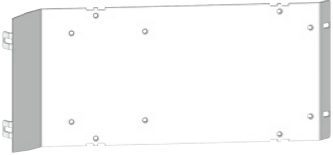


- ① Basic module
- ② Vertical separation
- ③ Horizontal separation
- ④ Sub-segments

SIVACON S4 Power Distribution Boards

Section Expansion

3VL molded case circuit breakers

Version		Article No. www.siemens.com/ product?Article No.	PS	
① Basic modules				
	Compartment width mm	Module height mm		
	600	150	8PQ5000-3BA65	1 unit
		200	8PQ5000-3BA66	1 unit
		250	8PQ5000-3BA67	1 unit
		300	8PQ5000-3BA68	1 unit
		350	8PQ5000-3BA70	1 unit
		400	8PQ5000-4BA03	1 unit
	800	200	8PQ5000-3BA77	1 unit
		250	8PQ5000-3BA78	1 unit
		350	8PQ5000-3BA80	1 unit
		400	8PQ5000-4BA04	1 unit
		450	8PQ5000-4BA05	1 unit
	② Vertical separation			
		Compartment width mm	Module height mm	
600		150	8PQ5000-3BA52	1 unit
		200	8PQ5000-3BA53	1 unit
		250	8PQ5000-3BA54	1 unit
		300	8PQ5000-3BA55	1 unit
		350	8PQ5000-3BA56	1 unit
		400	8PQ5000-4BA06	1 unit
800		150	8PQ5000-3BA57	1 unit
		200	8PQ5000-3BA58	1 unit
		250	8PQ5000-3BA60	1 unit
		350	8PQ5000-3BA61	1 unit
		400	8PQ5000-4BA07	1 unit
		450	8PQ5000-4BA08	1 unit
		③ Horizontal separation		
	<ul style="list-style-type: none"> • Forms the top and bottom terminations • Required 1 x for each sub-segment • 1 set = 2 units 			
Compartment width mm				
600		8PQ5000-3BA63	1 unit	
800		8PQ5000-3BA64	1 unit	

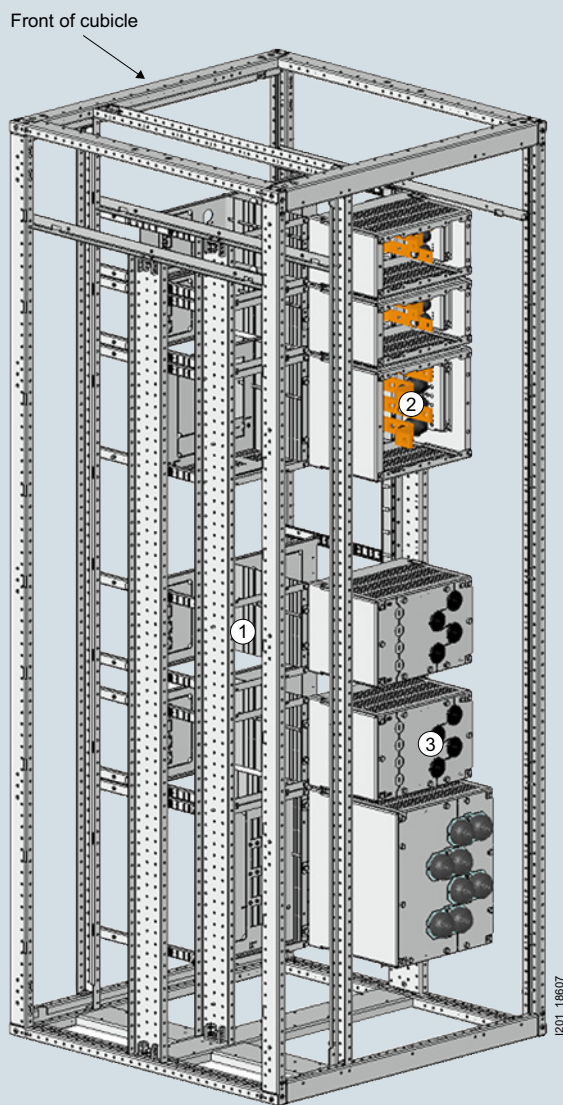
SIVACON S4 Power Distribution Boards

Section Expansion

3VL molded case circuit breakers

Configuration

For larger cable cross-sections an additional cable connection panel is required at the rear.

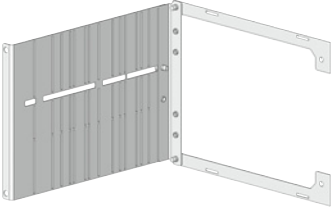


- ① Basic module, rear connection
- ② Cable connection compartment
- ③ Cover plate for cable connection compartment

SIVACON S4 Power Distribution Boards

Section Expansion

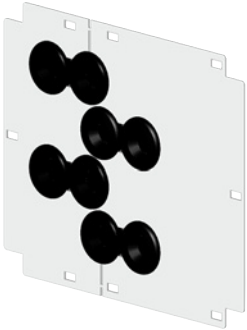
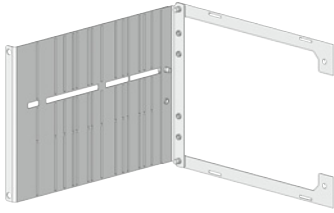
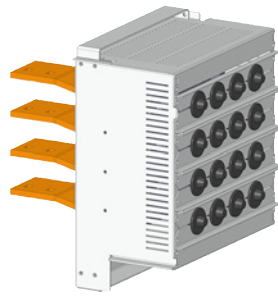
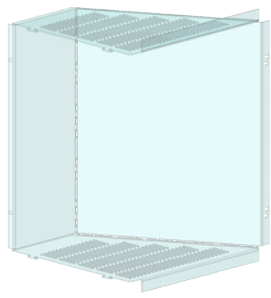
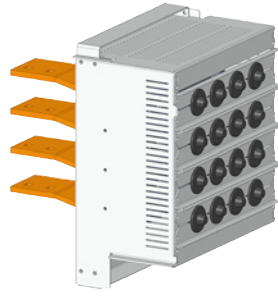
3VL molded case circuit breakers

Version		Article No. www.siemens.com/ product?Article No.	PS	
① Basic modules				
	Compartment width mm	Module height mm		
	600	150	8PQ5000-3BA65	1 unit
		200	8PQ5000-3BA66	1 unit
		250	8PQ5000-3BA67	1 unit
		300	8PQ5000-3BA68	1 unit
		350	8PQ5000-3BA70	1 unit
		400	8PQ5000-4BA03	1 unit
	800	200	8PQ5000-3BA77	1 unit
		250	8PQ5000-3BA78	1 unit
		350	8PQ5000-3BA80	1 unit
400		8PQ5000-4BA04	1 unit	
450	8PQ5000-4BA05	1 unit		
② Cable connection compartments				
<ul style="list-style-type: none"> • Cables are connected via 8WH terminal blocks, see Catalog LV 52 • Kit prepared for mounting of DIN rails • Not included in scope of supply 				
Versions	No. of poles	Module height mm		
VL160X, VL160	3	150	8PQ6000-5BA13 1 unit	
VL160X, VL160	4	200/250 ¹⁾	8PQ6000-5BA14 1 unit	
¹⁾ Compartment height, draw-out version				
Cable connecting bars made of copper				
Versions	No. of poles	Module height mm		
VL250	3	150	8PQ6000-5BA15 1 unit	
	4	200/250 ¹⁾	8PQ6000-5BA17 1 unit	
VL400	3	200	8PQ6000-5BA18 1 unit	
	4	250/300 ¹⁾	8PQ6000-5BA20 1 unit	
VL630	3	300	8PQ6000-5BA21 1 unit	
	4	350	8PQ6000-5BA22 1 unit	
¹⁾ Compartment height, draw-out version				

SIVACON S4 Power Distribution Boards

Section Expansion

3VL molded case circuit breakers

Version		Article No.	PS		
		www.siemens.com/ product?Article No.			
					
③ Cover plates					
Versions	No. of poles	Module height mm			
VL160X, VL160, VL250	3	150	8PQ5000-3BA71 1 unit		
VL160X, VL160, VL250	4	200	8PQ5000-3BA72 1 unit		
VL400	3	200	8PQ5000-3BA73 1 unit		
	4	250	8PQ5000-3BA74 1 unit		
VL630	3	300	8PQ5000-3BA75 1 unit		
	4	350	8PQ5000-3BA76 1 unit		
					
① Basic modules, fixed-mounted version					
Compartment width mm	Module height mm				
600	350		8PQ5000-3BA70 1 unit		
	400		8PQ5000-4BA03 1 unit		
800	400		8PQ5000-4BA04 1 unit		
	450		8PQ5000-4BA05 1 unit		
					
② Connection modules, complete, fixed-mounted version					
Compartment width mm	Circuit breaker	No. of poles	Operator type	Height mm	
600	VL800	3	Direct	350	8PQ6000-5BA87 1 unit
			Motorized/door coupling	350	8PQ6000-5BA88 1 unit
			Rotary	350	8PQ6000-6BA00 1 unit
	4	Direct	400	8PQ6000-6BA25 1 unit	
		Motorized/door coupling	400	8PQ6000-6BA26 1 unit	
		Rotary	400	8PQ6000-6BA24 1 unit	
800	VL800	3/4	Direct	400	8PQ6000-6BA25 1 unit
			Motorized/door coupling	400	8PQ6000-6BA26 1 unit
			Rotary	400	8PQ6000-6BA24 1 unit
	VL1250	3/4	Direct	450	8PQ6000-6BA01 1 unit
			Motorized/door coupling	450	8PQ6000-6BA02 1 unit
	VL1600	3/4	Direct	450	8PQ6000-6BA03 1 unit
Motorized/door coupling			450	8PQ6000-6BA04 1 unit	
					
① Basic modules, draw-out version					
Compartment width mm	Module height mm				
800	500		8PQ5000-4BA10 1 unit		
					
② Connection modules, complete, draw-out version					
Compartment width mm	Circuit breaker	No. of poles	Operator type	Height mm	
800	VL800 VL1250 VL1600	3/4	Direct	500	8PQ6000-6BA05 1 unit

SIVACON S4 Power Distribution Boards

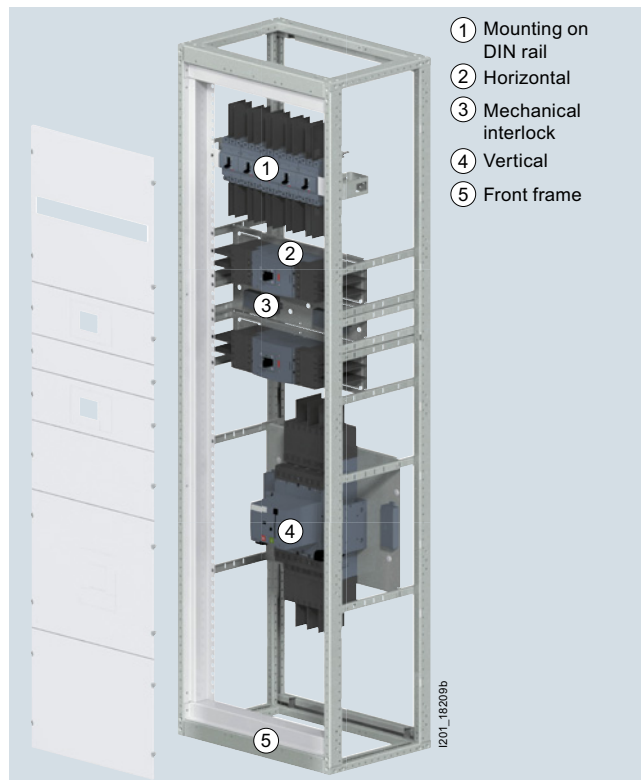
Section Expansion

3VT molded case circuit breakers

Overview

Configuration

For voltages >415 V, additional safety clearances are necessary.



Selection and ordering data

Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.
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① Mounting on DIN rail



Circuit breaker	Compartment width mm	Operating mechanism	No. of poles	Connection	Height mm	No. of circuit breakers	Mounting plate	Cover
3VT1 (160 A)	600	Direct	3	Front	250	1 ... 5	8PQ6000-3BA36	8PQ2025-6BA15
			4	Front	250	1 ... 3	8PQ6000-3BA36	8PQ2025-6BA15
		Motorized	3	Front	250	1 ... 2	8PQ6000-3BA36	8PQ2025-6BA15
			4	Front	250	1 ... 2	8PQ6000-3BA36	8PQ2025-6BA15

SIVACON S4 Power Distribution Boards

Section Expansion

3VT molded case circuit breakers

Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.
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Horizontal installation

② Fixed-mounted and plug-in version



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	Mounting plate	Cover
3VT1 (160 A)	600 ¹⁾	3/4	Front, rear	Direct	150	8PQ6000-4BA21	8PQ2015-6BA17
3VT2 (250 A)	600	3	Front, rear	Direct, motorized	150	8PQ6000-4BA23	8PQ2015-6BA18
3VT2 (250 A)	600	4	Front, rear	Direct, motorized	200	8PQ6000-4BA24	8PQ2020-6BA22
3VT3 (630 A)	600	3	Front, rear	Direct, motorized	200	8PQ6000-4BA27	8PQ2020-6BA23
3VT3 (630 A)	600	4	Front, rear	Direct, motorized	250	8PQ6000-4BA26	8PQ2025-6BA14

¹⁾ Mounting plate can be used only for fixed-mounted version.

② Draw-out version



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	Mounting plate	Cover
3VT2 (250 A)	600	3/4	Front, rear	Direct, motorized	250	8PQ6000-4BA22	8PQ2025-6BA13
3VT3 (630 A)	600	3/4	Front, rear	Direct, motorized	300	8PQ6000-4BA25	8PQ2030-6BA20

③ Mechanical interlocks

- Assembly kit for mechanical interlock
- Customized interlock (accessory) available for each device type



Circuit breaker	Compartment width mm	Height mm	Mounting plate	Cover
3VT2, 3VT3	600	100	8PQ6000-4BA34	8PQ2010-6BA01

Vertical installation

④ Fixed-mounted and plug-in version

- Front terminal bars and a breaking capacity of 35 kA require two additional covers, 150 mm each, phase separators and terminal covers
- Front terminal bars and a breaking capacity of 65 kA require two additional covers, 250 mm each, phase separators and terminal covers



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	No. of circuit breakers	Mounting plate	Cover
3VT2 (250 A)	600	3	Front, rear	Direct, motorized	350	1 ... 3	8PQ6000-4BA28	8PQ2035-6BA18
		4	Front, rear	Direct, motorized	350	1 ... 2	8PQ6000-4BA30	8PQ2035-6BA20
3VT3 (630 A)	600	3	Front, rear	Direct, motorized	400	1 ... 2	8PQ6000-4BA31	8PQ2040-6BA18
		4	Front, rear	Direct, motorized	400	1 ... 2	8PQ6000-4BA32	8PQ2040-6BA20

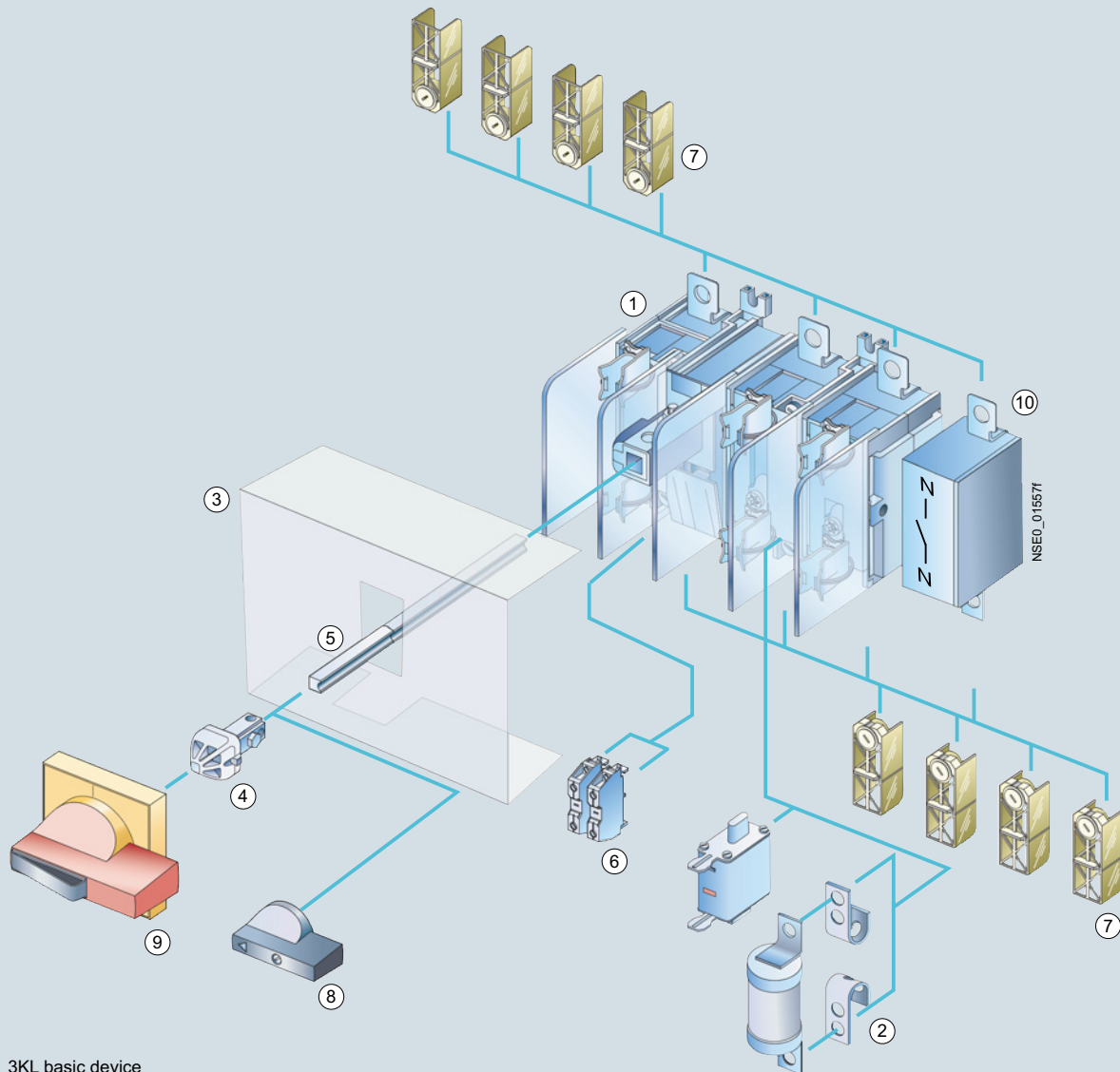
④ Draw-out version

- Front terminal bars and a breaking capacity of 35 kA require two additional covers, 150 mm each, phase separators and terminal covers
- Front terminal bars and a breaking capacity of 65 kA require two additional covers, 250 mm each, phase separators and terminal covers



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	No. of circuit breakers	Mounting plate	Cover
3VT2 (250 A)	600	3	Front, rear	Direct, motorized	350	1 ... 2	8PQ6000-4BA28	8PQ2035-6BA18
		4	Front, rear	Direct, motorized	350	1 ... 2	8PQ6000-4BA30	8PQ2035-6BA20
3VT3 (630 A)	600	3	Front, rear	Direct, motorized	400	1 ... 2	8PQ6000-4BA31	8PQ2040-6BA18
		4	Front, rear	Direct, motorized	400	1	8PQ6000-4BA33	8PQ2040-6BA21

Overview



- ① 3KL basic device
- ② Fuses, optionally BS-88 or LV HRC fuses
- ③ Terminal cover, IP20 (vertical to operator side)
- ④ Coupling driver
- ⑤ Extension shaft
- ⑥ Standard products from the Siemens 3SB1 range are used as auxiliary switches.

All components from the switch to the actuator are provided with non-interchangeability features.

Optional

- ⑦ Single-pole terminal cover from 63 A to 630 A, IP20 (vertical to operator side)
- ⑧ 8UC9 knob for fixed mounting in standard version (black) or EMERGENCY-STOP version (red), or
- ⑨ 8UC7 door-coupling rotary operating mechanism in standard version (ti-grey) or EMERGENCY-STOP version (red/yellow)
- ⑩ 4th pole (optional)

SIVACON S4 Power Distribution Boards

Section Expansion

3K switch disconnectors

Technical specifications

Standards		IEC 60947-1, IEC 60947-3, VDE 0660 Part 107					
Type		3KL50	3KL52	3KL53	3KL55 ¹⁾	3KL57 ¹⁾	3KL61 ¹⁾
3KL5, 3KL6							
Rated uninterrupted current I_U For fuse links according to DIN 43620	A Size	63 00 and 000	125 00 and 000	160 00 and 000	250 1 and 2	400 1 and 2	630 3 and 2
Cable lug, max. conductor size (stranded)	mm ²	35	70	120	150	2 × 150 or 1 × 240	2 × 240
Tightening torque Terminal screws	Nm	6 ... 7.5 M6	7 ... 10 M6	18 ... 22 M8	35 ... 45 M10	35 ... 45 M10	56 M12

¹⁾ Technical specifications for CSA approval upon request.

3KA711							
Rated uninterrupted current I_U	A	32	45	63	80	100	125
Cable lug, max. conductor size (stranded)	mm ²	50	50	50	50	50	50
Busbar size	mm ²	16 × 3	16 × 3	16 × 3	16 × 3	16 × 3	16 × 3
3KA712							
Rated uninterrupted current I_U	A	160	200	250	--	--	--
Cable lug, max. conductor size (stranded)	mm ²	120	120	120	--	--	--
Busbar size	mm ²	20 × 5	20 × 5	20 × 5	--	--	--
3KA713							
Rated uninterrupted current I_U	A	315	400	--	--	--	--
Cable lug, max. conductor size (stranded)	mm ²	2 × 150	2 × 150	--	--	--	--
Busbar size	mm ²	2 × 25 × 5	2 × 25 × 5	--	--	--	--
3KA714							
Rated uninterrupted current I_U	A	630	--	--	--	--	--
Cable lug, max. conductor size (stranded)	mm ²	2 × 185	--	--	--	--	--
Busbar size	mm ²	2 × 32 × 6	--	--	--	--	--
3KA715							
Rated uninterrupted current I_U	A	800	1000	1250	1600	2000	2500
Cable lug, max. conductor size (stranded)	mm ²	2 × 240	--	--	--	--	--
Busbar size	mm ²	2 × 50 × 5	2 × 50 × 6	2 × 50 × 8	3 × 50 × 8	3 × 50 × 12	4 × 50 × 12
3KA716							
Rated uninterrupted current I_U	A	1600	2000	2500	3150	--	--
Cable lug, max. conductor size (stranded)	mm ²	--	--	--	--	--	--
Busbar size	mm ²	2 × 80 × 10	2 × 80 × 10	3 × 80 × 10	3 × 100 × 10	--	--
3KL711							
Rated uninterrupted current I_U	A	32	45	63	80	--	--
Cable lug, max. conductor size (stranded)	mm ²	25	25	25	25	--	--
Busbar size	mm ²	12 × 3	12 × 3	12 × 3	12 × 3	--	--
3KL712							
Rated uninterrupted current I_U	A	100	125	160	--	--	--
Cable lug, max. conductor size (stranded)	mm ²	70	70	70	--	--	--
Busbar size	mm ²	16 × 4	16 × 4	16 × 4	--	--	--
3KL713							
Rated uninterrupted current I_U	A	200	250	--	--	--	--
Cable lug, max. conductor size (stranded)	mm ²	120	120	--	--	--	--
Busbar size	mm ²	25 × 4	25 × 4	--	--	--	--
3KL714							
Rated uninterrupted current I_U	A	315	400	--	--	--	--
Cable lug, max. conductor size (stranded)	mm ²	240	240	--	--	--	--
Busbar size	mm ²	32 × 5	32 × 5	--	--	--	--
3KL715							
Rated uninterrupted current I_U	A	630	800	--	--	--	--
Cable lug, max. conductor size (stranded)	mm ²	2 × 185	2 × 185	--	--	--	--
Busbar size	mm ²	2 × 40 × 6	2 × 40 × 6	--	--	--	--

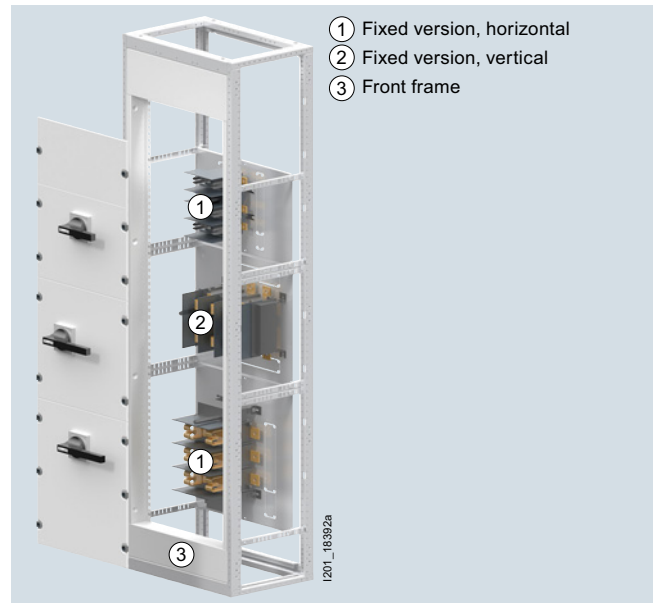
Selection and ordering data

General information

Cover prepared for direct operating mechanism

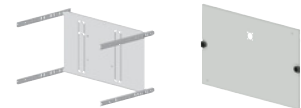
Configuration

In addition the terminal covers of the devices are required.



Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.
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① Fixed-mounted version, horizontal



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	Mounting plate	Cover
3KL50/3KL52	600	3/4	Front, rear	Door-coupling rotary operating mechanism	300	8PQ6000-2BA65	8PQ2030-6BA06
3KL55/3KL57	600	3/4	Front, rear	Door-coupling rotary operating mechanism	350	8PQ6000-2BA71	8PQ2035-6BA08
3KL61	600	3/4	Front, rear	Door-coupling rotary operating mechanism	550	8PQ6000-2BA50	8PQ2055-6BA02
3KL711/3KA711	600	3/4	Front, rear	Door-coupling rotary operating mechanism	200	8PQ6000-2BA52	8PQ2020-6BA10
3KL712/3KA712	600	3/4	Front, rear	Door-coupling rotary operating mechanism	250	8PQ6000-2BA55	8PQ2025-6BA03
3KL713/3KA713	600	3/4	Front, rear	Door-coupling rotary operating mechanism	300	8PQ6000-2BA58	8PQ2030-6BA04
3KL714/3KA714	600	3/4	Front, rear	Door-coupling rotary operating mechanism	350	8PQ6000-2BA62	8PQ2035-6BA06
3KL715/3KA715	a 600	3/4	Front, rear	Door-coupling rotary operating mechanism	450	8PQ6000-2BA67	8PQ2045-6BA02

② Fixed-mounted version, vertical



Circuit breaker	Compartment width mm	No. of poles	Connection	Operating mechanism	Height mm	Mounting plate	Cover
3KL50/3KL52	600	3/4	Front, rear	Door-coupling rotary operating mechanism	250	8PQ6000-2BA66	8PQ2025-6BA05
3KL55/3KL57	600	3/4	Front, rear	Door-coupling rotary operating mechanism	350	8PQ6000-2BA72	8PQ2035-6BA10
3KL61	600	3	Front, rear	Door-coupling rotary operating mechanism	450	8PQ6000-2BA51	8PQ2045-6BA01
3KL711/3KA711	600	3/4	Front, rear	Door-coupling rotary operating mechanism	200	8PQ6000-2BA53	8PQ2020-6BA11
	800	3/4	Front, rear	Door-coupling rotary operating mechanism	200	8PQ6000-2BA54	8PQ2020-8BA04
3KL712/3KA712	600	3/4	Front, rear	Door-coupling rotary operating mechanism	250	8PQ6000-2BA56	8PQ2025-6BA04
	800	3/4	Front, rear	Door-coupling rotary operating mechanism	250	8PQ6000-2BA57	8PQ2025-8BA02
3KL713/3KA713	600	3/4	Front, rear	Door-coupling rotary operating mechanism	300	8PQ6000-2BA60	8PQ2030-6BA05
	800	3/4	Front, rear	Door-coupling rotary operating mechanism	300	8PQ6000-2BA61	8PQ2030-8BA02
3KL714/3KA714	600	3/4	Front, rear	Door-coupling rotary operating mechanism	350	8PQ6000-2BA63	8PQ2035-6BA07
	800	3/4	Front, rear	Door-coupling rotary operating mechanism	350	8PQ6000-2BA64	8PQ2035-8BA04
3KL715/3KA715	b 600	3/4	Front, rear	Door-coupling rotary operating mechanism	450	8PQ6000-2BA68	8PQ2045-6BA03
	800	3/4	Front, rear	Door-coupling rotary operating mechanism	450	8PQ6000-2BA70	8PQ2045-8BA01

a Due to the size of its handle, the 1250 A/50 kA 3KA715 disconnector requires an additional 200 mm cover.

b Due to the size of its handle, the 3KA715 disconnector can be installed only in versions up to 1250A/35 kA.

SIVACON S4 Power Distribution Boards

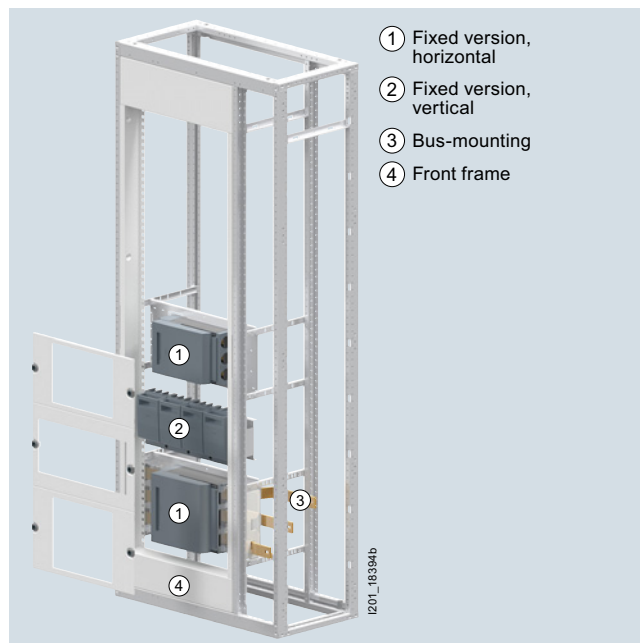
Section Expansion

3NP1 fuse switch disconnectors

Selection and ordering data

Configuration

You can find fuse links in [chapter "Fuse Systems"](#).



Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.
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① Fixed-mounted version, horizontal

Circuit breaker	Compartment width mm	No. of poles	Height mm	Mounting plate	Cover
3NP1143	600	3	250	8PQ6000-3BA75	8PQ2025-6BA16
3NP1153	600	3	250	8PQ6000-3BA75	8PQ2025-6BA17
3NP1163	600	3	300	8PQ6000-3BA77	8PQ2030-6BA22

Bus mounting

Circuit breaker	Compartment width mm	No. of poles	Height mm	Vertical distribution busbar, cascaded	Cable connection form 3
3NP1143	600	3	250	8PQ6000-5BA68	8PQ6000-5BA72
3NP1153	600	3	250	8PQ6000-5BA70	8PQ6000-5BA73
3NP1163	600	3	300	8PQ6000-5BA71	8PQ6000-5BA74

② Fixed-mounted version, vertical

Circuit breaker	Compartment width mm	No. of poles	Height mm	No. of circuit breakers	Mounting plate	Cover
3NP1123	600	3	250	1 ... 4	8PQ6000-3BA78	8PQ2025-6BA18
	800	3	250	1 ... 6	8PQ6000-3BA82	8PQ2025-8BA10
3NP1133	600	3	300	1 ... 4	8PQ6000-3BA78	8PQ2030-6BA23
	800	3	300	1 ... 5	8PQ6000-3BA82	8PQ2030-8BA11

Overview

Standards		IEC 60947-1, IEC 60947-3, VDE 0660 Part 107			
		3NJ410	3NJ412	3NJ413	3NJ414
Type					
Conventional thermal current					
Free-air with gG fuses, I_{th}	A	160	250	400	630
For fuse links and isolating blades					
gG according to IEC 60269, I_n	Size	00	1	2	3
Rated operational voltage U_e At 40 Hz ... 60 Hz AC	V	690	690	690	690
Rated insulation voltage U_i	V	800	1000	1000	1000
Rated impulse withstand voltage U_{imp}	kV	8	12	12	12
Rated conditional short-circuit current with fuses, at 500 V AC					
With gG fuse (rms value)	kA	80/120	120	120	120
Max. permissible power loss per fuse link	W	12	32	45	48
Rated short-time withstand current I_{cw} rms value	kA	--	14.5	14.5	14.5
Capacitive switching capacity	kvar	--	105 ... 115	155 ... 185	250 ... 300
Permissible ambient temperature	°C	-25 ... +55, >35 °C with derating factors			
Mechanical endurance , operating cycles		1400	1400	800	800
Electrical endurance , operating cycles		200	200	200	200
Degree of protection					
With closed fuse carrier, with terminal cover and peripheral cover		IP30	IP30	IP30	IP30
With open fuse carrier		IP10	IP10	IP10	IP10
Power loss of the main conducting paths at I_{th}	W	18	23	54	115
Main conductor connections					
Terminal screws		M8	M10	M12	M12
Flat bars	mm	20	30	30	30
Cable lug, max. conductor size (stranded)	mm ²	95	240	240	240
Tightening torque	Nm	12 ... 15	30 ... 35	35 ... 40	35 ... 40
Clamp/V terminals	mm ²	1.5 ... 70	25 ... 300	25 ... 300	25 ... 300
Fixing screws		M8	M12	M12	M12
Required tightening torque for mounting on busbars	Nm	16 ... 18	35 ... 40	35 ... 40	35 ... 40

SIVACON S4 Power Distribution Boards

Section Expansion

3NJ4 in-line fuse switch disconnectors

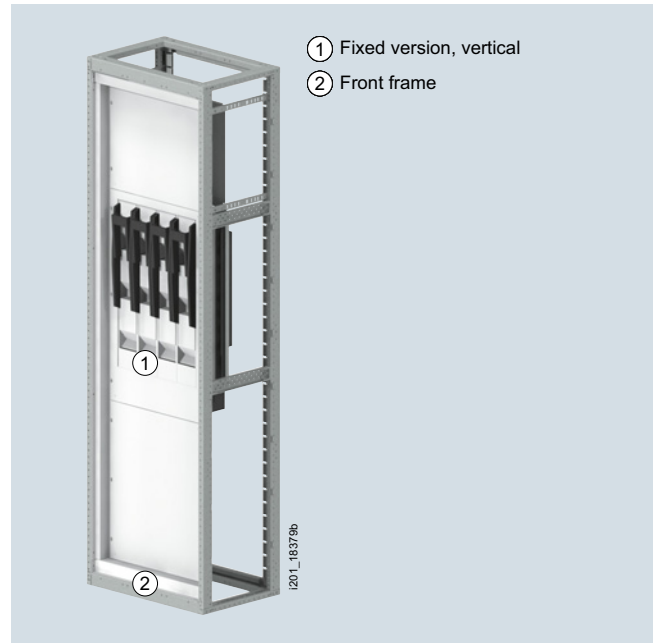
Selection and ordering data

General information

- 3NJ4 in-line switch disconnectors in fixed-mounted version
- Copper drawing for connection to cascaded vertical busbar available on request
- You can find fuse links in [chapter "Fuse Systems"](#).

Configuration

- Space for cable routing shall be provided above and below the assembly kits
- When operation is by means of modular doors, the degree of protection of the system is reduced to IP30
- In the case of NH00, adaptation to 185 mm busbar spacing (3NJ4918-0DA02) is necessary



Version	Article No. www.siemens.com/ product?Article No.	Quantity	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.
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① Fixed-mounted version with cover

- For installation behind section door
- In combination with the swivel front frame, the maximum possible number of components is reduced by -1

Circuit breaker	Compartment width mm	No. of poles	Installation system	Height mm	Circuit breakers per kit	Mounting plate	Quantity	Busbar holder	Cover
3NJ4, BG 1, 2, 3	600	3	Fixed	800	1 ... 4	8PQ6000-2BA48	2 ×	3NJ5974-0AB	8PQ2000-6BA06
3NJ4, BG 1, 2, 3	800	3	Fixed	800	1 ... 6	8PQ6000-2BA48	2 ×	3NJ5974-0AB	8PQ2000-8BA06

Fixed-mounted version with modular door

- Operation through the door
- Degree of protection: IP 30

Circuit breaker	Compartment width mm	No. of poles	Installation system	Height mm	Circuit breakers per kit	Mounting plate	Quantity	Busbar holder	Modular door
3NJ4, BG 1, 2, 3	600	3	Fixed	800	1 ... 4	8PQ6000-2BA48	2 ×	3NJ5974-0AB	8PQ2080-6BA10
3NJ4, BG 1, 2, 3	800	3	Fixed	800	1 ... 6	8PQ6000-2BA48	2 ×	3NJ5974-0AB	8PQ2080-8BA05


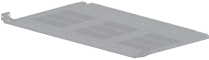

Blanking covers

Panel cutout	Width mm	Blanking cover
3NJ4, BG 00	50	3NJ4912-2AA00
3NJ4, BG 1, 2, 3	100	3NJ4912-2BA00

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Section Expansion

3NJ4 in-line fuse switch disconnectors

	Version	Article No. www.siemens.com/ product?Article No.	PS		
Separation					
	Form 3b • For cable connection at the bottom horizontal partition + support rail required				
	Width			8PQ5000-1BA70 8PQ5000-1BA71	1 unit 1 unit
	mm				
600 800					
	Horizontal separation				
	Compartment width			8PQ5000-3BA44 8PQ5000-2BA61 8PQ5000-2BA62	1 unit 1 unit 1 unit
	mm				
400 600 800					
	Support rails • Equipment height 25 mm	8PQ5000-2BA63	1/2 units		

SIVACON S4 Power Distribution Boards

Section Expansion

3NJ6 in-line switch disconnectors with fuses

Technical specifications

Main devices of sizes 00 and 1

Size	00										1		
In-line switch disconnectors with fuses type 3NJ62...	LV HRC			...02-3 ...02-4		...03-1 ...04-1 ...04-2		...03-3 ...03-4		...12-3 ...12-4	...13-1 ...14-1 ...14-2	...13-3 ...13-4	
	BS	...43-3	...53-3	...62-3 ...62-4				...63-3 ...63-4		...72-3 ...72-4	...74-1 ...74-2	...73-3 ...73-4	
Switching capacity		H	H	H		S		H		H	S	H	
Rated insulation voltage U_i	V	1000											
Rated impulse withstand voltage U_{imp}	V	8000											
Rated operational current I_e	A	63	100	160	-	160	125	160	125	250			
For LV HRC fuse links acc. to IEC 60269		-	-	for 00 and 000						1			
For BS fuse links acc. to BS 88		A3	A3	00T ¹⁾						B2			
Rated operational voltage U_e													
• At 50/60 Hz rated frequency	V	690		--	--	500	690	500	690	690			
• For DC	V	--	--	230	440	--	--	--	--	230	440	-	-
Utilization category		AC23B		DC23B	DC21B	AC22B		AC23B		DC23B	DC21B	AC22B	AC23B
Rated conditional short-circuit current													
• Short-circuit strength (rms value)	kA	100		60		100		100		60		100	
• Short-circuit making capacity (rms value)	kA	66		60		55		66		60		55	66
Rated making capacity													
• p.f. = 0.65	A	--	--	--	--	480	375	--	--	--	--	750	--
• p.f. = 0.45	A	630	1000	--	--	--	--	--	--	--	--	--	--
• p.f. = 0.35	A	--	--	--	--	--	--	1600	1250	--	--	--	2500
Rated breaking capacity													
• p.f. = 0.65	A	--	--	--	--	480	375	--	--	--	--	750	--
• p.f. = 0.45	A	504	800	--	--	--	--	--	--	--	--	--	--
• p.f. = 0.35	A	--	--	--	--	--	--	1280	1000	--	--	--	2000
Endurance													
Operating cycles total		2000		1600						1600			
• Electrical (690 V, p.f. = 0.65)		300		200						200			
Power loss (no fuse links)	W	7	17	43						78			
Permissible ambient temperature	°C	-5 ... +55											
Permissible operating position		Horizontal and vertical with bottom connection											
Connection type		Main conductor connection											
Cable lug connection													
• Conductor size (Al/Cu, solid or stranded) according to DIN 46235 (Cu) and DIN 46239 (Al)	mm ²	1x 10-95 2x 16-70									1x 25-240 2x 25-70		
• Screw size	M	M8									M12		
• Torque	Nm	15									30		
Clamp connection													
• Conductor size (Al/Cu), rm	mm ²	1x 10-50									1x 16-185		
• Conductor size (Al/Cu), re	mm ²	1x 10-50									1x 16-150		
• Conductor size (Al/Cu), sm	mm ²	1x 16-95									1x 35-240		
• Conductor size (Al/Cu), se	mm ²	1x 16-95									1x 35-300		
• Required torque	Nm	15											

¹⁾ The fuse is available from Lawson Fuses (UK) and does not correspond to BS 88.

Main devices of sizes 2 and 3

Size	2				3					
In-line switch disconnectors with fuses type 3NJ62...	LV HRC	...22-3	...23-1	...23-3	...32-3	...33-1	...33-3	...		
		...22-4	...24-1	...23-4	...32-4	...34-1	...33-4	...		
	BS	...82-3	...24-2	...83-3	...92-3	...94-1	...93-3	...		
...82-4			...83-4	...92-4	...94-2	...93-4	...33-3			
						...33-4				
Switching capacity		H	S	H	H	S	H			
Rated insulation voltage U_i	V	1000								
Rated impulse withstand voltage U_{imp}	V	8000								
Rated operational current I_e	A	400			630		500	630	500	
• For fuse links according to IEC 60269/ BS88										
For fuse links acc. to IEC 60269		2 and 1			3 and 2					
For BS fuse links acc. to BS 88		B4			3T ¹⁾					
Rated operational voltage U_e	V	--	--	690	230	440	500	690	500	690
• At 50/60 Hz rated frequency		230	440	--	--	--	--	--	--	--
• For DC										
Utilization category		DC23B	DC21B	AC22B	AC23B	DC23B	DC21B	AC22B	AC23B	
Rated conditional short-circuit current										
• Short-circuit strength (rms value)	kA	60		100	60		100			
• Short-circuit making capacity (rms value)	kA	60		55	66	60		55	66	
Rated making capacity										
• p.f. = 0.65	A	--	--	1200	--	--	1890	1500	--	--
• p.f. = 0.45	A	--	--	--	--	--	--	--	--	--
• p.f. = 0.35	A	--	--	--	4000	--	--	--	6300	5000
Rated breaking capacity										
• p.f. = 0.65	A	--	--	1200	--	--	1890	1500	--	--
• p.f. = 0.45	A	--	--	--	--	--	--	--	--	--
• p.f. = 0.35	A	--	--	--	3200	--	--	--	5040	4000
Endurance										
Operating cycles total		1000			1000					
• Electrical (690 V, p.f. = 0.65)		200			200					
Power loss (no fuse links)	W	158			357					
Permissible ambient temperature	°C	-5 ... +55								
Permissible operating position		Horizontal and vertical with bottom connection								
Degree of protection (in operating condition)		IP41								
Connection type		Main conductor connection								
Cable lug connection										
Conductor size	mm ²	1x 25-300			1x 25-300					
• Al/Cu, solid or stranded, acc. to DIN 46235 (Cu) and DIN 46239 (Al)		2x 25-240			2x 25-240					
• Screw size	Nm	2x M12			2x M12					
• Torque		30			30					
Clamp connection										
• Conductor size (Al/Cu), rm	mm ²	2x 16-185			2x 16-185					
• Conductor size (Al/Cu), re	mm ²	2x 16-150			2x 16-150					
• Conductor size (Al/Cu), sm	mm ²	2x 35-240			2x 35-240					
• Conductor size (Al/Cu), se	mm ²	2x 35-300			2x 35-300					
• Required torque	Nm	25			25					

¹⁾ The fuse is available from Lawson Fuses (UK) and does not correspond to BS 88.

Vertical busbar rated currents

Cross-section	Rated operational current I_n in A						
	20 °C	25 °C	30 °C	35 °C	40 °C	45 °C	50 °C
60 x 10	1680	1640	1600	1560	1520	1480	1430
80 x 10	2260	2210	2155	2100	2045	1985	1925

SIVACON S4 Power Distribution Boards

Section Expansion

3NJ6 in-line switch disconnectors with fuses

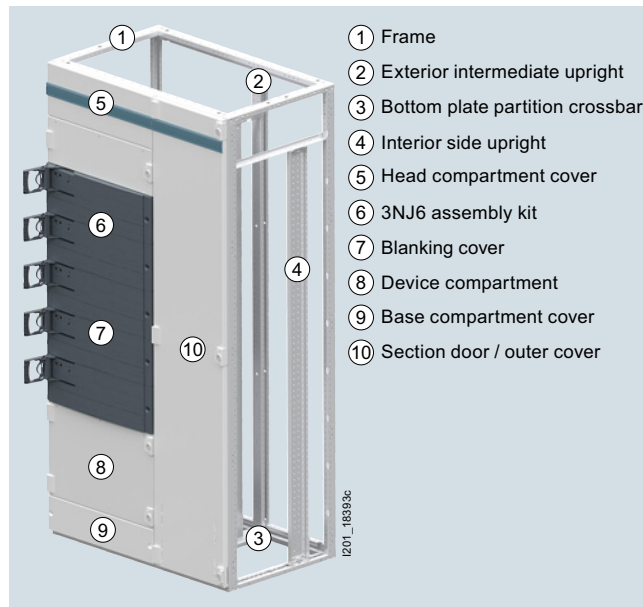
Selection and ordering data


Features

- Suitable for 3 and 4-pole busbar arrangement
- Degree of protection IP40
- 3NJ6 plug-in in-line switch disconnectors

Configuration

- You can find fuse links in [chapter "Fuse Systems"](#).
- Due to the design of the devices, separation 2b already creates 3b.
- During planning, please note the equipment regulations published in the operating instructions: [SIVACON S4 Manual](#).

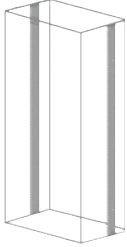
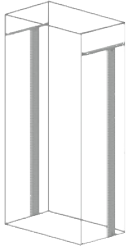



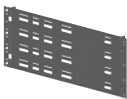



Version		Article No. www.siemens.com/ product?Article No.	PS	
	① Frame Height 2000 mm			
	Width mm	Depth mm		
	1000	400 600 800	8PQ1201-4BA02 8PQ1201-6BA02 8PQ1201-8BA03	1 unit 1 unit 1 unit
	1200	400 600 800	8PQ1202-4BA02 8PQ1202-6BA02 8PQ1202-8BA02	1 unit 1 unit 1 unit
	② Exterior intermediate uprights For fitting <ul style="list-style-type: none"> • Outer covers • Section doors • Modular doors 		8PQ3000-1BA43	1 unit
	③ Bottom plate partition crossbars For width 600 to 1200 mm			
Depth in mm	Quantity			
400	1 ×	8PQ3000-1BA38	1 unit	
600	1 ×	8PQ3000-1BA40	1 unit	
800	2 ×	8PQ3000-1BA38	1 unit	

SIVACON S4 Power Distribution Boards

Section Expansion








3NJ6 in-line switch disconnectors with fuses

Version	Article No. www.siemens.com/ product?Article No.	PS				
 <p>④ Interior side uprights, without main busbar</p> <ul style="list-style-type: none"> • For width from 400 to 1200 mm • For depth from 600 to 800 mm <table border="1"> <thead> <tr> <th>Depth in mm</th> </tr> </thead> <tbody> <tr> <td>600</td> </tr> <tr> <td>800</td> </tr> </tbody> </table>	Depth in mm	600	800	8PQ3000-0BA03	1 unit	
Depth in mm						
600						
800						
 <p>④ Interior side uprights, with main busbar at top</p> <ul style="list-style-type: none"> • For width from 800 to 1200 mm <table border="1"> <thead> <tr> <th>Depth in mm</th> </tr> </thead> <tbody> <tr> <td>400</td> </tr> <tr> <td>600</td> </tr> <tr> <td>800</td> </tr> </tbody> </table>	Depth in mm	400	600	800	8PQ3000-0BA65 8PQ3000-0BA01 8PQ3000-0BA02	1 unit 1 unit 1 unit
Depth in mm						
400						
600						
800						
 <p>⑤ Head compartment covers</p> <table border="1"> <thead> <tr> <th>Height mm</th> <th>Width mm</th> </tr> </thead> <tbody> <tr> <td>225</td> <td>600</td> </tr> </tbody> </table>	Height mm	Width mm	225	600	8PQ2022-6BA01	1 unit
Height mm	Width mm					
225	600					
  <p>⑥ Assembly kits for 3NJ6 in-line switch disconnectors with fuses</p> <ul style="list-style-type: none"> • Compatible cross-sections: 60 x 10, 80 x 10 <table border="1"> <thead> <tr> <th>Height mm</th> <th>Width mm</th> </tr> </thead> <tbody> <tr> <td>1600</td> <td>600</td> </tr> </tbody> </table>	Height mm	Width mm	1600	600	8PQ3000-1BA48	1 unit
Height mm	Width mm					
1600	600					
 <p>Busbar covers</p> <ul style="list-style-type: none"> • Mounting height 200 mm • 8 units required per 3NJ6 assembly kit 	3NJ6916-4EA00	1 unit				
 <p>⑦ Blanking covers</p> <ul style="list-style-type: none"> • Mounting height 50 mm 	3NJ6900-4CB00	1 unit				

SIVACON S4 Power Distribution Boards

Section Expansion

3NJ6 in-line switch disconnectors with fuses

Version			Article No. www.siemens.com/ product?Article No.	PS		
	⑧ Device compartments					
	Height mm	Width mm				
	200	600	8PQ3000-1BA50	1 unit		
	400		8PQ3000-1BA51	1 unit		
	⑨ Base compartment covers, IP 4X					
	Height mm	Width mm				
	175	600	8PQ2000-6BA07	1 unit		
	⑩ Section doors – doors with two-way interlocking system					
	Hinge position	Width mm				
	Left	400 600			8PQ2197-4BA08	1 unit
					8PQ2197-6BA06	1 unit
	Right	400 600			8PQ2197-4BA11	1 unit
			8PQ2197-6BA13	1 unit		
	⑩ Section doors – doors for semi-cylindrical profile					
	Semi-cylindrical profile acc. to DIN 18252/18254, 8 × 45°					
	Hinge position	Width mm				
	Left	400 600			8PQ2197-4BA06	1 unit
					8PQ2197-6BA04	1 unit
Right	400 600	8PQ2197-4BA07	1 unit			
			8PQ2197-6BA05	1 unit		
Separation						
	Form 2b, equipment compartment					
	Separation from the main busbar					
	Position of main busbar mm	Frame depth mm	Width mm			
	Top, front	400 600 800	600		8PQ3000-1BA44	1 unit
			8PQ3000-1BA45	1 unit		
			8PQ3000-1BA46	1 unit		
	Top, both sides	800	600	8PQ3000-1BA47	1 unit	
	Form 2b, cable compartment					
	Position of main busbar mm	Frame depth mm	Width mm			
	Top, front	400 600 800	400		8PQ3000-0BA67	1 unit
					8PQ3000-0BA52	1 unit
					8PQ3000-0BA55	1 unit
		400 600 800	600		8PQ3000-0BA68	1 unit
					8PQ3000-0BA53	1 unit
					8PQ3000-0BA56	1 unit
	Top, both sides	800	400 600	8PQ3000-0BA58	1 unit	
			8PQ3000-0BA60	1 unit		
	Form 4b, terminal covers					
	<ul style="list-style-type: none"> Terminal covers - For 2/3-pole devices - Only for 4th pole 					
			3NJ6923-1DA00	1 unit		
			3NJ6904-1DA00	1 unit		

SIVACON S4 Power Distribution Boards

Section Expansion

Modular devices

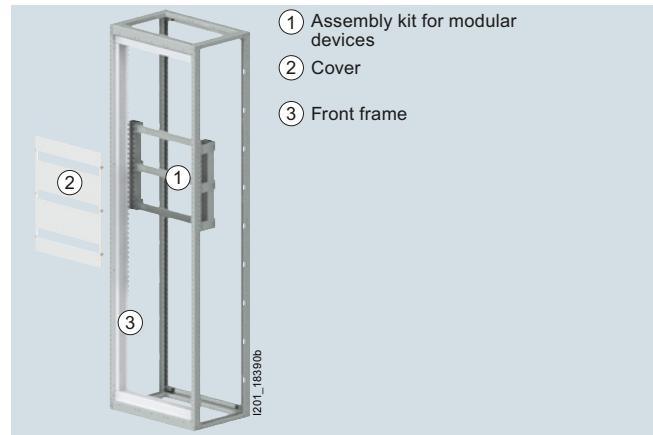
Selection and ordering data

Features

- Adjustable-depth multi-profile rail, 35 mm
- SIKclip snaps onto rear

Configuration

- One mounting plate ① for every row



Version	Article No. www.siemens.com/ product?Article No.	Article No. www.siemens.com/ product?Article No.
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Modular devices with cover

Width mm	Rows × MW	Row center distance mm	Height mm	Quantity	① Mounting plate	② Cover
600	1 × 24	150	150	1 ×	8PQ6000-3BA36	8PQ2015-6BA07
600	1 × 24	200	200	1 ×	8PQ6000-3BA36	8PQ2020-6BA12
800	1 × 35	150	150	1 ×	8PQ6000-3BA37	8PQ2015-8BA03
800	1 × 35	200	200	1 ×	8PQ6000-3BA37	8PQ2020-8BA05

Width mm	Rows × MW	Row center distance mm	Height mm	Quantity	① Mounting plate	② Cover
600	2 × 24	150	300	2 ×	8PQ6000-3BA36	8PQ2030-6BA07
600	2 × 24	200	400	2 ×	8PQ6000-3BA36	8PQ2040-6BA10
800	2 × 35	150	300	2 ×	8PQ6000-3BA37	8PQ2030-8BA03
800	2 × 35	200	400	2 ×	8PQ6000-3BA37	8PQ2040-8BA10

Width mm	Rows × MW	Row center distance mm	Height mm	Quantity	① Mounting plate	② Cover
600	3 × 24	150	450	3 ×	8PQ6000-3BA36	8PQ2045-6BA04
600	3 × 24	200	600	3 ×	8PQ6000-3BA36	8PQ2060-6BA04
800	3 × 35	150	450	3 ×	8PQ6000-3BA37	8PQ2045-8BA02
800	3 × 35	200	600	3 ×	8PQ6000-3BA37	8PQ2060-8BA02

Modular devices with modular door

Width mm	Rows × MW	Row center distance mm	Height mm	Quantity	Mounting plate	Modular door
600	1 × 24	200	200	1 ×	8PQ6000-6BA52	8PQ2020-6BA28
800	1 × 35	200	200	1 ×	8PQ6000-6BA53	8PQ2020-8BA14

Supports for raceway fastening

Width mm	Support
600	8PQ6000-0BA16
800	

Blanking strips

Color RAL 7035 (light gray)

Versions	
• For 12 MW	8GK9910-0KK00
• Length 1 m without pressure-relief joint, to cut to length	8GK9910-0KK01

Minimum order quantity (PS) or a multiple thereof can be ordered.

SIVACON S4 Power Distribution Boards

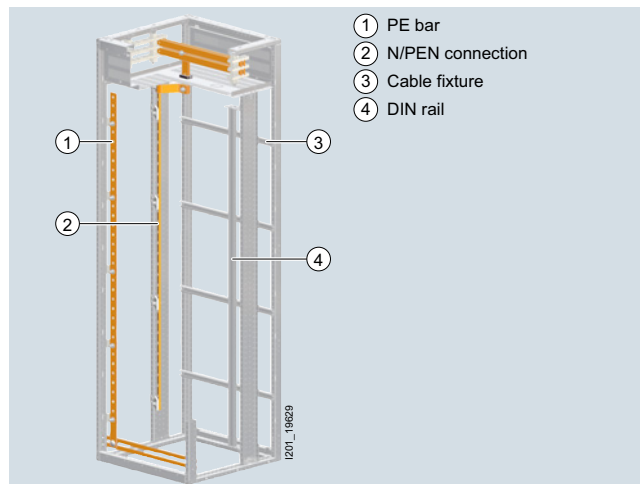
Section Expansion

Cable section


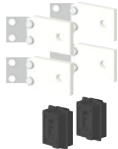




Overview

Features

- C-mounting rail ideally suited to the flexible attachment of terminal elements
- Multi-profile rails for mounting outgoing terminals.
- N/PEN rail tilted by 45° offers more convenient connections



Selection and ordering data

	Version	Article No. www.siemens.com/ product?Article No.	PS
	① PE bar <ul style="list-style-type: none"> • Set consisting of 5 links 	8PQ4000-2BA23	1 unit
	② N/PEN connection <ul style="list-style-type: none"> • 4 busbar holders • 2 connecting terminals (for 2b separation) 	8PQ4000-2BA22	1 set
	③ Cable fixtures Mounting bracket <ul style="list-style-type: none"> • 1 pack = 10 units • Necessary when mounting on base of frame 	8PQ3000-0BA73	1 unit
	Mounting rail <ul style="list-style-type: none"> • C profile, 30 mm • 1 set = 5 units 		
	Depth in mm		
	400, 600, 800	8PQ3000-0BA38	1 unit
	Width in mm		
	350 400 600 800	8PQ3000-0BA38 8PQ3000-0BA41 8PQ3000-0BA42 8PQ3000-0BA43	1 unit 1 unit 1 unit 1 unit
	④ H profiles for output terminals Mounting bracket 1 pack = 10 units	8PQ9400-0BA01	1 unit
	Multi-profile rails <ul style="list-style-type: none"> • H profile = 35 mm • Length = 1600 mm • Made of aluminum 	8PQ9600-0BA01	1 unit

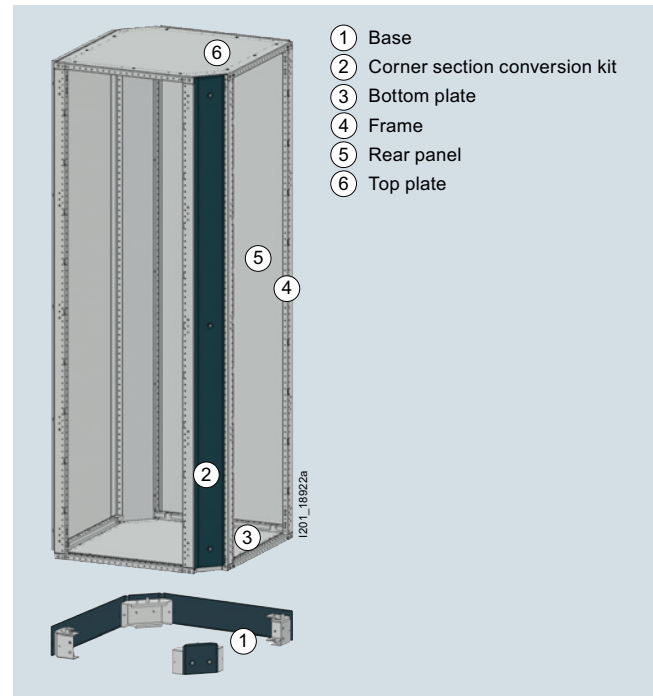
Overview

Features

- Consisting of a standard frame and special conversion kits for corner sections

Configuration

The overall length of the unit's front increases by 100 mm in both room axes



Selection and ordering data

Version	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS
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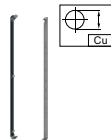
① Base corner pieces



Depth in mm	Height 100 mm		Height 200 mm		
400	8PQ1010-0BA04	1 unit	8PQ1024-4BA01	1 unit	
600	8PQ1010-0BA05	1 unit	8PQ1026-6BA01	1 unit	
800	8PQ1018-8BA01	1 unit	8PQ1028-8BA01	1 unit	

② Corner section conversion kits

Incl. copper drawing



Assembly kit			
8PQ1200-0BA03	1 unit		

③ Bottom plates



Depth in mm	IP55 Main busbar at top		IP20 Main busbar at bottom		
400	8PQ2304-4BA12	1 unit	8PQ2300-4BA25	1 unit	
600	8PQ2306-6BA12	1 unit	8PQ2300-6BA27	1 unit	
800	8PQ2308-8BA08	1 unit	8PQ2300-8BA14	1 unit	

SIVACON S4 Power Distribution Boards

Section Expansion

Corner sections

Version	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS
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④ Frame

Height: 2000 mm



Depth in mm	Width in mm	Frame			
400	400	8PQ1204-4BA01	1 unit		
600	600	8PQ1206-6BA01	1 unit		
800	800	8PQ1208-8BA01	1 unit		

⑤ Rear panels

Two units required for each corner section



Width in mm	IP40		IP55		
400	8PQ2420-4BA02	1 unit	8PQ2420-4BA01	1 unit	
600	8PQ2420-6BA02	1 unit	8PQ2420-6BA01	1 unit	
800	8PQ2420-8BA02	1 unit	8PQ2420-8BA01	1 unit	

⑥ Top plates

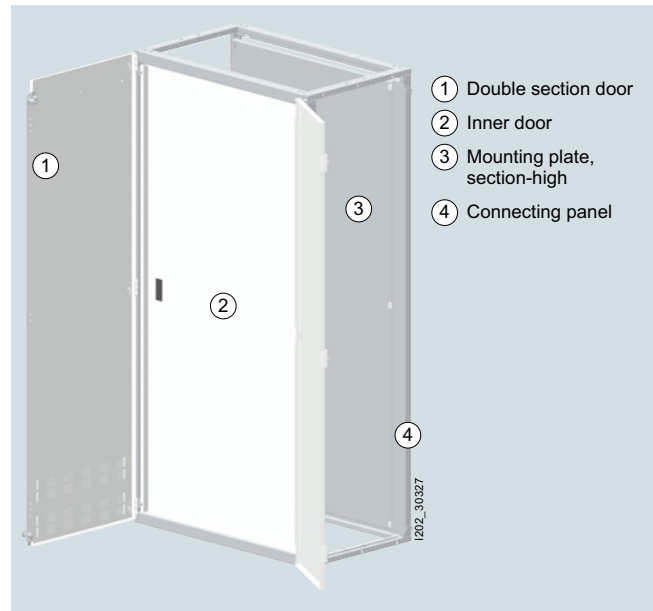


Depth in mm	IP40		IP55		IPX1	
400	8PQ2304-4BA10	1 unit	8PQ2304-4BA08	1 unit	8PQ2304-4BA11	1 unit
600	8PQ2306-6BA10	1 unit	8PQ2306-6BA08	1 unit	8PQ2306-6BA11	1 unit
800	8PQ2308-8BA06	1 unit	8PQ2308-8BA05	1 unit	8PQ2308-8BA07	1 unit

Overview

Features

- Double section door in combination with inner door and section-high mounting plates



Selection and ordering data

Version	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS
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① Double section doors – double-bit keys



Width mm	Division mm	IP40		IP55	
1000	600 + 400	8PQ2197-1BA14	1 unit	8PQ2197-1BA13	1 unit
1200	600 + 600	8PQ2197-2BA11	1 unit	8PQ2197-2BA10	1 unit

Double section doors – semi-cylindrical profile



Width mm	Division mm	IP40		IP55	
1000	600 + 400	8PQ2197-1BA16	1 unit	8PQ2197-1BA15	1 unit
1200	600 + 600	8PQ2197-2BA13	1 unit	8PQ2197-2BA12	1 unit

② Inner doors

- Suitable for installation behind section doors
- Cannot be combined with front frames
- Prepared for installation of inner door struts on the rear
- One kit 8PQ2080-0BA07 (2 x 700 mm) each can be fitted at top and bottom



Width mm	Height mm	Inner door		Inner door strut 700 mm high	
600	1900	8PQ2000-6BA05	1 unit	8PQ2080-0BA07	1 unit
800		8PQ2000-8BA05	1 unit	8PQ2080-0BA07	1 unit
1000		8PQ2000-1BA01	1 unit	8PQ2080-0BA07	1 unit

SIVACON S4 Power Distribution Boards

Section Expansion

Mounting plates

Version	Article No. www.siemens.com/ product?Article No.	PS
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③ Mounting plates, section-high

- Material thickness: 2 mm

Height mm	Width mm	Mounting plate	
1600	400	8PQ3000-0BA33	1 unit
	600	8PQ3000-0BA35	1 unit
	800	8PQ3000-0BA37	1 unit
	1000	8PQ3000-1BA06	1 unit
	1200	8PQ3000-1BA07	1 unit
1900	400	8PQ3000-0BA32	1 unit
	600	8PQ3000-0BA34	1 unit
	800	8PQ3000-0BA36	1 unit
	1000	8PQ3000-1BA04	1 unit
	1200	8PQ3000-1BA05	1 unit

④ Connecting panels

- Connect two adjacent mounting plates

Height mm	Connecting panel	
1600	8PQ3000-1BA10	1 unit
1900	8PQ3000-1BA08	1 unit

Modular mounting plates

- Adjustable depth
- For free assembly within the outgoing feeder panel fixed-mounted version



Width mm	Height mm	Mounting plate	
400	150	8PQ3000-2BA60	1 unit
	200	8PQ3000-2BA17	1 unit
	300	8PQ3000-2BA66	1 unit
	400	8PQ3000-2BA18	1 unit
	600	8PQ3000-2BA21	1 unit
	800	8PQ3000-2BA23	1 unit
	600	150	8PQ3000-2BA62
200		8PQ3000-1BA56	1 unit
300		8PQ3000-2BA51	1 unit
400		8PQ3000-1BA61	1 unit
550		8PQ3000-3BA07	1 unit
600		8PQ3000-1BA65	1 unit
800		8PQ3000-1BA26	1 unit
800	150	8PQ3000-2BA64	1 unit
	200	8PQ3000-1BA58	1 unit
	300	8PQ3000-2BA53	1 unit
	400	8PQ3000-1BA63	1 unit
	550	8PQ3000-3BA08	1 unit
	600	8PQ3000-1BA67	1 unit
	800	8PQ3000-1BA28	1 unit

SIVACON S4 Power Distribution Boards

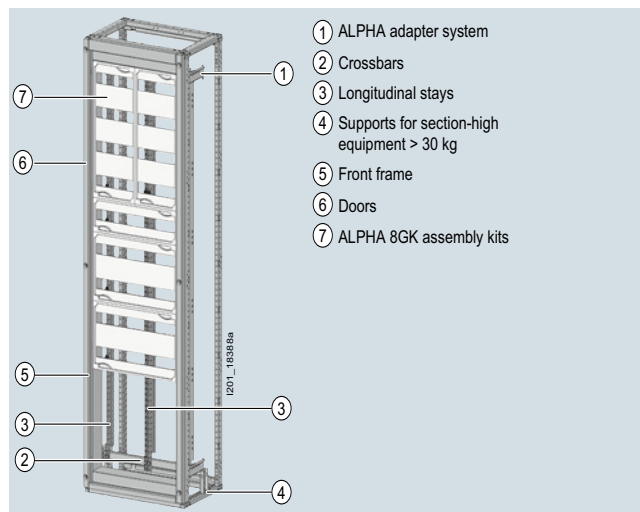
Section Expansion

ALPHA DIN 8GK section

Overview

Configuration

- Equipment height 1650 mm with main busbar at top/bottom
- Equipment height 1800 mm



Configuration for sections without main busbar



Selection and ordering data

Version			Article No. www.siemens.com/ product?Article No.	PS
	Frame Height: 2000 mm			
	Width mm	Depth mm		
	350	400 600 800	8PQ1200-4BA15 8PQ1200-6BA14 8PQ1200-8BA01	1 unit 1 unit 1 unit
	600	400 600 800	8PQ1206-4BA01 8PQ1206-6BA01 8PQ1206-8BA01	1 unit 1 unit 1 unit
	850	400 600 800	8PQ1200-4BA16 8PQ1200-6BA15 8PQ1200-8BA02	1 unit 1 unit 1 unit
	① Adapters • For installing the ALPHA system • 1 set = 4 units		8PQ3000-1BA74	1 unit
	② Crossbars 1 set = 2 units			
	Height mm	Frame width mm	Width of 8GK mm	
	--	350	250	8PQ3000-1BA76
--	600	500	8PQ3000-1BA78	1 unit
--	850	750	8PQ3000-1BA80	1 unit

SIVACON S4 Power Distribution Boards

Section Expansion

ALPHA DIN 8GK section

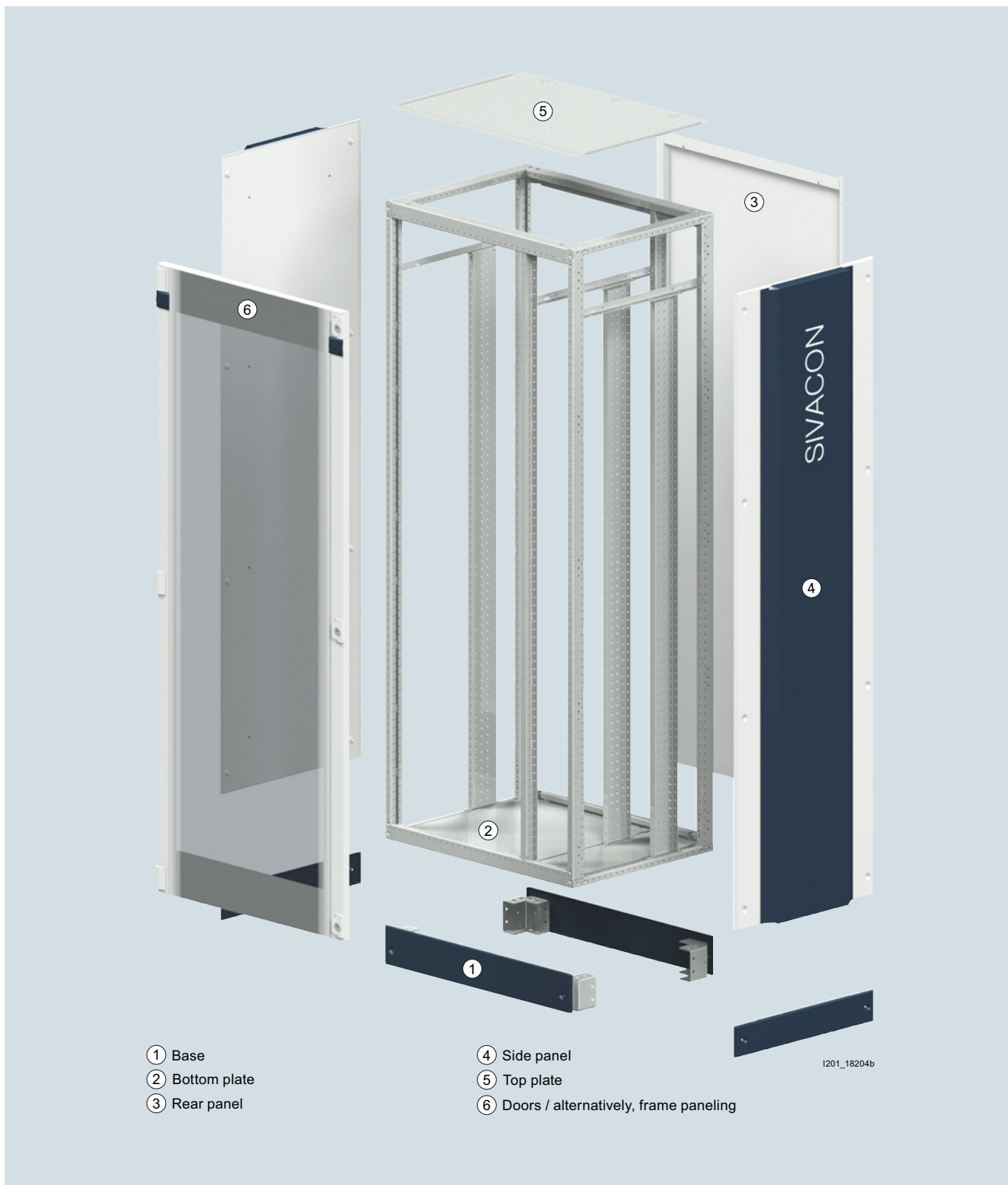
Version		Article No. www.siemens.com/ product?Article No.	PS														
	③ Uprights 1 set = 2 units	8PQ3000-2BA88 8PQ3000-1BA82	1 unit 1 unit														
	<table border="1"> <thead> <tr> <th>Height mm</th> <th>Frame width mm</th> </tr> </thead> <tbody> <tr> <td>1650</td> <td>--</td> </tr> <tr> <td>1800</td> <td>--</td> </tr> </tbody> </table>			Height mm	Frame width mm	1650	--	1800	--								
	Height mm			Frame width mm													
1650	--																
1800	--																
④ Supports <ul style="list-style-type: none"> • 1 set = 2 units • For section-high equipment > 30 kg 	8PQ3000-1BA75	1 unit															
	⑤ Front frames	8PQ3000-2BA85 8PQ3000-2BA86 8PQ3000-2BA87 8PQ3000-2BA45 8PQ3000-2BA46 8PQ3000-2BA47	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit														
	<table border="1"> <thead> <tr> <th>Height mm</th> <th>Frame width mm</th> </tr> </thead> <tbody> <tr> <td>1650</td> <td>350</td> </tr> <tr> <td></td> <td>600</td> </tr> <tr> <td></td> <td>850</td> </tr> <tr> <td>1800</td> <td>350</td> </tr> <tr> <td></td> <td>600</td> </tr> <tr> <td></td> <td>850</td> </tr> </tbody> </table>			Height mm	Frame width mm	1650	350		600		850	1800	350		600		850
	Height mm			Frame width mm													
	1650			350													
				600													
				850													
1800	350																
	600																
	850																

⑥ For doors, see paneling sections on page 16/119.

SIVACON S4 Power Distribution Boards

Section Expansion

ALPHA DIN 8GK section



SIVACON S4 Power Distribution Boards

Section Expansion

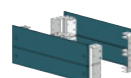
ALPHA DIN 8GK section

Version	Article No. www.siemens.com/ product?Article No.	PS
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① Base corner pieces with front cover



Height in mm	Width in mm	Height 100 mm	
100	350	8PQ1010-0BA01	1 unit
	600	8PQ1016-0BA01	1 unit
	850	8PQ1010-0BA02	1 unit



Height in mm	Width in mm	Height 200 mm	
200	350	8PQ1020-0BA01	1 unit
	600	8PQ1026-0BA01	1 unit
	850	8PQ1020-0BA02	1 unit



Base reinforcements for transport

Height: 100 mm

Width in mm	Depth in mm	Height 100 mm	
350	--	8PQ1010-0BA06	1 unit
600	--	8PQ1016-0BA02	1 unit
850	--	8PQ1010-0BA07	1 unit
--	400	8PQ1014-0BA02	1 unit
--	600	8PQ1016-0BA02	1 unit
--	800	8PQ1018-0BA02	1 unit



Base covers, lateral

Height: 100 mm

Depth in mm	Height 100 mm	
400	8PQ1010-4BA01	1 unit
600	8PQ1010-6BA01	1 unit
800	8PQ1010-8BA01	1 unit

SIVACON S4 Power Distribution Boards

Section Expansion

ALPHA DIN 8GK section

Version	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS
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② Bottom plates

For 800 mm deep frames, order **two** 400 mm deep bottom plates in the corresponding width.



Depth in mm	Width in mm	IP55		IP40, for cable entry	
400	350	8PQ2300-4BA16	1 unit	8PQ2300-4BA18	1 unit
	600	8PQ2306-4BA05	1 unit	8PQ2306-4BA06	1 unit
	850	8PQ2300-4BA17	1 unit	8PQ2300-4BA20	1 unit
600	350	8PQ2300-6BA20	1 unit	8PQ2300-6BA22	1 unit
	600	8PQ2306-6BA05	1 unit	8PQ2306-6BA06	1 unit
	850	8PQ2300-6BA21	1 unit	8PQ2300-6BA23	1 unit

② Bottom plates for main busbar, bottom



Depth in mm	Width in mm	IP20			
400	350	8PQ2300-4BA23	1 unit	--	
	600	8PQ2306-4BA10	1 unit	--	
	850	8PQ2300-4BA24	1 unit	--	
600	350	8PQ2300-6BA25	1 unit	--	
	600	8PQ2306-6BA16	1 unit	--	
	850	8PQ2300-6BA26	1 unit	--	
800	350	8PQ2300-8BA10	1 unit	--	
	600	8PQ2306-8BA05	1 unit	--	
	850	8PQ2300-8BA11	1 unit	--	

③ Rear panels



Width in mm	IP40		IP55	
350	8PQ2420-0BA01	1 unit	8PQ2420-0BA03	1 unit
600	8PQ2420-6BA02	1 unit	8PQ2420-6BA01	1 unit
850	8PQ2420-0BA02	1 unit	8PQ2420-0BA04	1 unit

④ Side panels

1 set = 2 units



Depth in mm	IP40, with design strip		IP55	
400	8PQ2520-4BA01	1 unit	8PQ2520-4BA02	1 unit
600	8PQ2520-6BA01	1 unit	8PQ2520-6BA02	1 unit
800	8PQ2520-8BA01	1 unit	8PQ2520-8BA02	1 unit

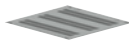
SIVACON S4 Power Distribution Boards

Section Expansion

ALPHA DIN 8GK section

Version	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS
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⑤ Top plates



Depth in mm	Width in mm	IP40		IPX1 upgrade		IP55		IP40, with cable entry	
400	350	8PQ2300-4BA06	1 unit	8PQ2300-4BA11	1 unit	8PQ2300-4BA04	1 unit	8PQ2300-4BA14	1 unit
	600	8PQ2306-4BA02	1 unit	8PQ2306-4BA04	1 unit	8PQ2306-4BA01	1 unit	8PQ2306-4BA03	1 unit
	850	8PQ2300-4BA07	1 unit	8PQ2300-4BA12	1 unit	8PQ2300-4BA05	1 unit	8PQ2300-4BA15	1 unit
600	350	8PQ2300-6BA13	1 unit	8PQ2300-6BA15	1 unit	8PQ2300-6BA11	1 unit	8PQ2300-6BA17	1 unit
	600	8PQ2306-6BA02	1 unit	8PQ2306-6BA04	1 unit	8PQ2306-6BA01	1 unit	8PQ2306-6BA03	1 unit
	850	8PQ2300-6BA14	1 unit	8PQ2300-6BA16	1 unit	8PQ2300-6BA12	1 unit	8PQ2300-6BA18	1 unit
800	350	8PQ2300-8BA03	1 unit	8PQ2300-8BA05	1 unit	8PQ2300-8BA01	1 unit	8PQ2300-8BA07	1 unit
	600	8PQ2306-8BA02	1 unit	8PQ2306-8BA04	1 unit	8PQ2306-8BA01	1 unit	8PQ2306-8BA03	1 unit
	850	8PQ2300-8BA04	1 unit	8PQ2300-8BA06	1 unit	8PQ2300-8BA02	1 unit	8PQ2300-8BA08	1 unit

Version	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS	Article No. www.siemens.com/ product?Article No.	PS
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⑥ Doors with two-way interlocking system



Hinge position	Width in mm	IP40		IP55		IP55, glass doors	
Left	350	8PQ2197-0BA03	1 unit	8PQ2197-0BA06	1 unit	--	
	600	8PQ2197-6BA06	1 unit	8PQ2197-6BA03	1 unit	8PQ2197-6BA10	1 unit
	850	8PQ2197-0BA04	1 unit	8PQ2197-0BA07	1 unit	8PQ2197-0BA01	1 unit
Right	350	8PQ2197-0BA16	1 unit	8PQ2197-0BA18	1 unit	--	
	600	8PQ2197-6BA13	1 unit	8PQ2197-6BA12	1 unit	8PQ2197-6BA14	1 unit
	850	8PQ2197-0BA17	1 unit	8PQ2197-0BA20	1 unit	8PQ2197-0BA21	1 unit

Doors for semi-cylindrical profile

- Semi-cylindrical profile acc. to DIN 18252/18254
- 8 × 45°



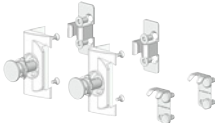


Hinge position	Width in mm	IP40		IP55		IP55, glass doors	
Left	350	8PQ2197-0BA34	1 unit	8PQ2197-0BA31	1 unit	--	
	600	8PQ2197-6BA04	1 unit	8PQ2197-6BA01	1 unit	8PQ2197-6BA07	1 unit
	850	8PQ2197-0BA35	1 unit	8PQ2197-0BA32	1 unit	8PQ2197-0BA33	1 unit
Right	350	8PQ2197-0BA40	1 unit	8PQ2197-0BA36	1 unit	--	
	600	8PQ2197-6BA05	1 unit	8PQ2197-6BA02	1 unit	8PQ2197-6BA08	1 unit
	850	8PQ2197-0BA41	1 unit	8PQ2197-0BA37	1 unit	8PQ2197-0BA38	1 unit

SIVACON S4 Power Distribution Boards

Section Expansion


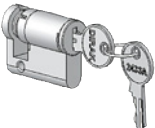




ALPHA DIN 8GK section

	Version	Article No. www.siemens.com/ product?Article No.	PS
Accessories			
Flat cylinders/two-way interlocking mechanism			
Versions			
	Rotary handles with flat cylinder <ul style="list-style-type: none"> • Identical key type • Including key 	8PQ9400-0BA07	1 unit
	Rotary handles with two-way interlocking mechanism	8PQ9400-0BA08	1 unit
	Coupling bars	8PQ9400-0BA27	1 unit
	Locking rods	8PQ9400-0BA37	1 unit
	Bar guides	8PQ9400-0BA36	1 unit

SIVACON S4 Power Distribution Boards

Section Expansion

ALPHA DIN 8GK section

	Version	Article No. www.siemens.com/ product?Article.No.	PS
Semi-cylindrical profiles			
Versions			
	Rotary handles with semi-cylindrical profile	8PQ9400-0BA41	1 unit
	Coupling bars	8PQ9400-0BA28	1 unit
	Locking rods	8PQ9400-0BA38	1 unit
	Bar guides	8PQ9400-0BA36	1 unit
	Semi-cylindrical profiles <ul style="list-style-type: none"> • Acc. to DIN 18252/18254 • 8 x 45° adjustable • Identical key type • Further lock systems (RONIS, VW) on request • Including key 	8PQ9400-0BA26	1 unit
	Door hinges 1 set = 2 units	8PQ9400-0BA55	1/2 units
	Cubicle keys <ul style="list-style-type: none"> • 3 mm double bit • 1 pack = 10 units 	8PQ9400-0BA12	1 unit
	Inner door struts <ul style="list-style-type: none"> • For use with section doors • 1 pair = 2 units • Height 1975 mm 	8PQ2197-0BA10	1 unit
	Cubicle ID plates SIVACON designed by Siemens	8PQ9400-0BA06	1 unit

Overview

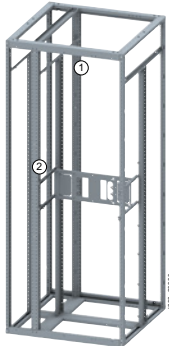
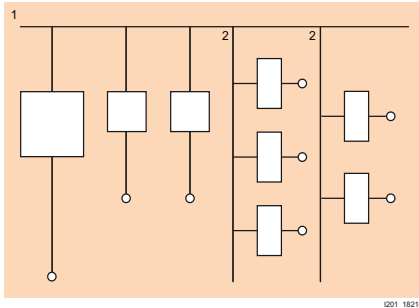
Features

Internal separation is achieved with partitions, covers and device enclosures. Enclosed protectee thus created. Internal separation results in a higher level of safety for people and equipment.

Benefits

- Reduction of possible hazards during connection, scheduled maintenance
- Attenuation of the consequences of local faults and faster resumption of regular operation
- Protection against contact with hazardous parts and the adjacent functional units

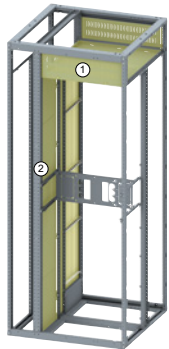
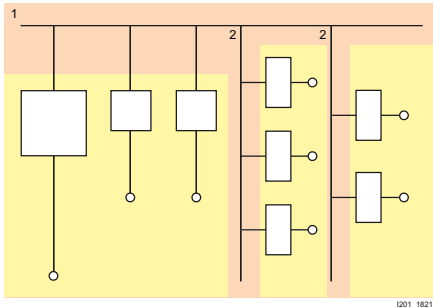
Form 1



Outgoing feeder panel

- No internal separation

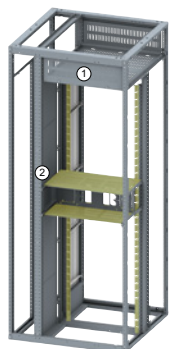
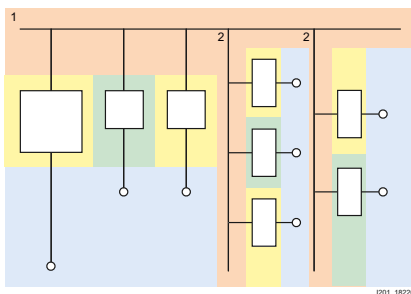
Form 2b



Outgoing feeder panel

- + Separation of the main busbar and the vertical busbar

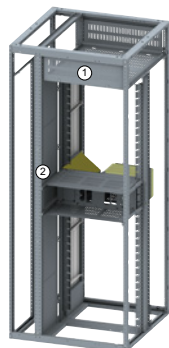
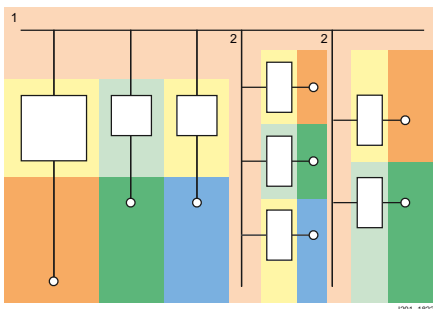
Form 3b



Outgoing feeder panel

- Separation of the main busbar and the vertical busbar
- + Separation of device compartments

Form 4b



Outgoing feeder panel

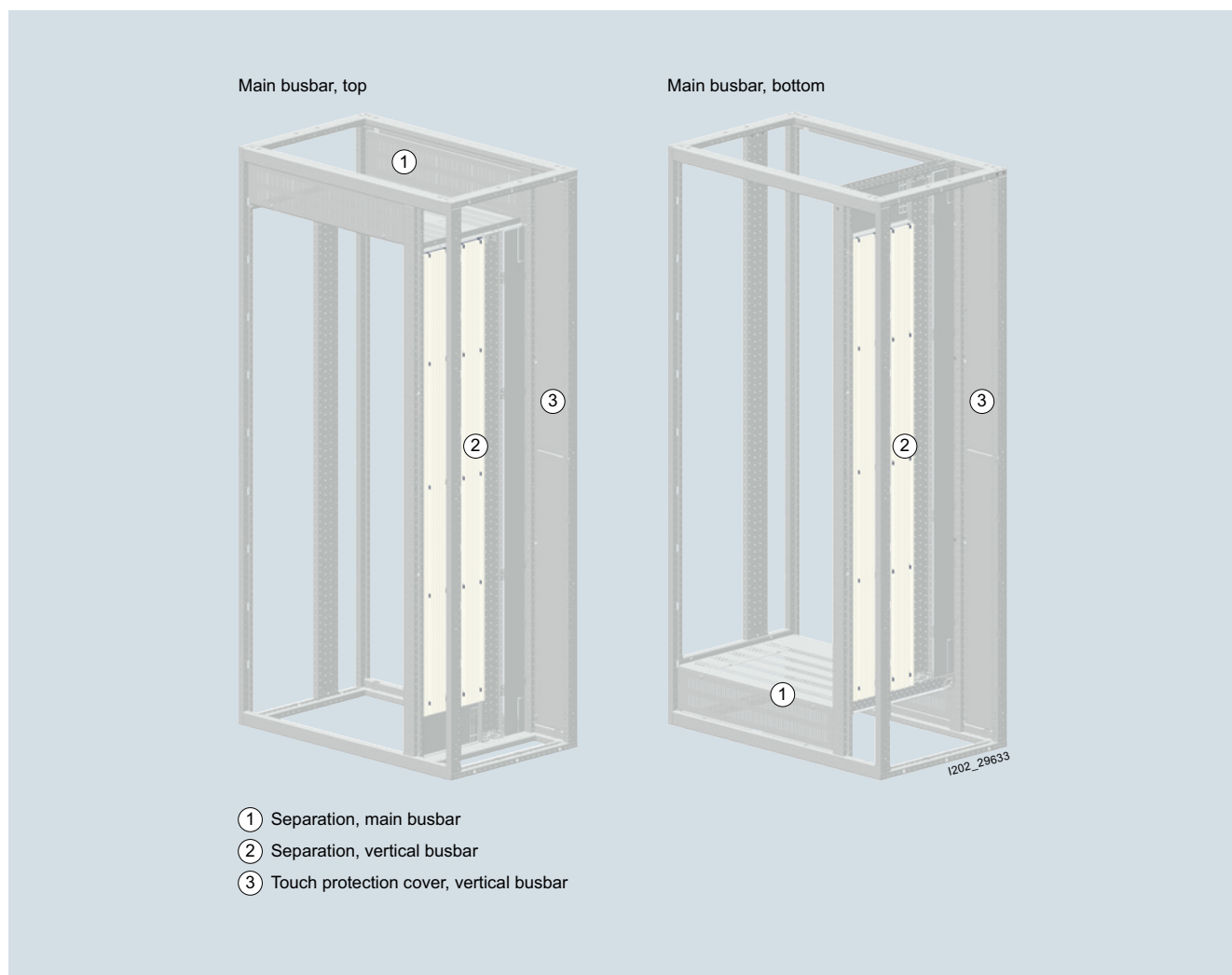
- Separation of the main busbar and the vertical busbar
- Separation of the devices
- + Separation of the connection points

- Functional units
- Connection point
- ① Main busbars
- ② Vertical busbar

SIVACON S4 Power Distribution Boards

Internal Separation

Introduction



Features

- Separations, vertical busbar ② contain openings for cable routing
- With main busbar at bottom, form 2b is mandatory
- Sophisticated ventilation concept

SIVACON S4 Power Distribution Boards

Internal Separation






Main busbar

Configuration

One unit per frame division corresponding to the relative dimensions for equipment compartment or cable compartment.

Selection and ordering data





Separation form 2b, main busbar

Version	Article No. www.siemens.com/ product?Article No.	PS		
① Main busbar at top • Height: 225 mm 				
Frame depth mm	Position of main busbar	Compartment width mm	Separation	
	Top	200	8PQ3000-1BA52	1 unit
		350	8PQ3000-2BA68	1 unit
		400	8PQ3000-0BA67	1 unit
		600	8PQ3000-0BA68	1 unit
		800	8PQ3000-0BA70	1 unit
		850	8PQ3000-2BA70	1 unit
		1000 1200	8PQ3000-1BA13 8PQ3000-1BA15	1 unit 1 unit
	Top	200	8PQ3000-1BA53	1 unit
		350	8PQ3000-2BA71	1 unit
		400	8PQ3000-0BA52	1 unit
		600	8PQ3000-0BA53	1 unit
		800	8PQ3000-0BA54	1 unit
		850	8PQ3000-2BA72	1 unit
		1000 1200	8PQ3000-1BA14 8PQ3000-1BA16	1 unit 1 unit
	Top front / rear	200	8PQ3000-1BA54	1 unit
		350	8PQ3000-2BA73	1 unit
		400	8PQ3000-0BA55	1 unit
		600	8PQ3000-0BA56	1 unit
		800	8PQ3000-0BA57	1 unit
		850	8PQ3000-2BA74	1 unit
		1000 1200	8PQ3000-1BA17 8PQ3000-1BA18	1 unit 1 unit
	Top	200	8PQ3000-1BA55	1 unit
		350	8PQ3000-2BA75	1 unit
		400	8PQ3000-0BA58	1 unit
		600	8PQ3000-0BA60	1 unit
		800	8PQ3000-0BA61	1 unit
		850	8PQ3000-2BA76	1 unit
		1000 1200	8PQ3000-1BA20 8PQ3000-1BA21	1 unit 1 unit

SIVACON S4 Power Distribution Boards

Internal Separation

Main busbar

Version		Article No.		PS	
		www.siemens.com/ product?Article No.			
Main busbar at bottom • Height 225 mm 					
	Frame depth mm	Position of main busbar	Frame width mm	Separation	
	400	Bottom	350	8PQ3000-3BA13	1 unit
			400	8PQ3000-3BA14	1 unit
			600	8PQ3000-3BA15	1 unit
			800	8PQ3000-3BA16	1 unit
			850	8PQ3000-3BA17	1 unit
			1000	8PQ3000-3BA18	1 unit
			1200	8PQ3000-3BA20	1 unit
	600	Bottom	350	8PQ3000-3BA22	1 unit
			400	8PQ3000-3BA23	1 unit
			600	8PQ3000-3BA24	1 unit
			800	8PQ3000-3BA25	1 unit
			850	8PQ3000-3BA26	1 unit
			1000	8PQ3000-3BA27	1 unit
			1200	8PQ3000-3BA28	1 unit
	800	Bottom double	350	8PQ3000-3BA31	1 unit
			400	8PQ3000-3BA32	1 unit
			600	8PQ3000-3BA33	1 unit
			800	8PQ3000-3BA34	1 unit
			850	8PQ3000-3BA35	1 unit
			1000	8PQ3000-3BA36	1 unit
			1200	8PQ3000-3BA37	1 unit

SIVACON S4 Power Distribution Boards

Internal Separation

Main busbar

Version	Article No. www.siemens.com/ product?Article.No.	PS
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Main busbar at rear

- Height: 250 mm



Frame depth mm	Position of main busbar	Compartment width mm	Separation	
800	Rear	350	8PQ3000-2BA77	1 unit
		400	8PQ3000-0BA78	1 unit
		600	8PQ3000-0BA80	1 unit
		800	8PQ3000-0BA81	1 unit
		850	8PQ3000-2BA78	1 unit
		1000	8PQ3000-1BA22	1 unit
		1200	8PQ3000-1BA23	1 unit



Main busbar at rear

- With horizontal separations

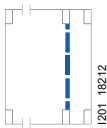
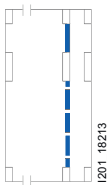
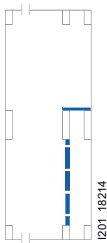

Frame depth mm	Position of main busbar	Frame width mm	Separation	
800	Rear	400	8PQ5000-4BA24	1 unit
		600	8PQ5000-4BA25	1 unit
		800	8PQ5000-4BA26	1 unit
		1000	8PQ5000-4BA27	1 unit

SIVACON S4 Power Distribution Boards

Internal Separation

Vertical busbar



Selection and ordering data

Version					Article No. www.siemens.com/ product?Article No.	PS
② Vertical busbar, form 2b						
	Position of main busbar	Positioning	Frame depth mm	Compartment width mm		
 1201_18212	Top	--	400	--	8PQ4000-0BA05	1 unit
			600	--	8PQ4000-0BA07	1 unit
 1201_18213	Top	On two sides	800	--	8PQ4000-0BA64	1 unit
			800	200 400	8PQ4000-0BA02	1 unit
 1201_18214	Top	Front/rear	800	200 400	8PQ4000-0BA01	1 unit
			800	--	8PQ4000-0BA03	1 unit
 1201_18215	Without	--	400	--	8PQ4000-0BA06	1 unit
			600	--	8PQ4000-0BA03	1 unit
			800	--	8PQ4000-0BA76	1 unit

SIVACON S4 Power Distribution Boards

Internal Separation

Vertical busbar

Version		Article No. www.siemens.com/ product?Article No.	PS	
	③ Touch protection covers, vertical busbar <ul style="list-style-type: none"> • Height 1900 mm • Not for use with frame depth 400 mm 			
	Compartment width mm			
	200 400	8PQ3000-2BA50 8PQ3000-0BA51	1 unit 1 unit	
	④ Vertical separation between sections <ul style="list-style-type: none"> • Height 1900 mm • With removable pre-sectioning units for main busbar 			
	Frame depth mm	Quantity		
	400	1 ×	8PQ3000-0BA15	1 unit
	600	1 ×	8PQ3000-0BA16	1 unit
	800	2 ×	8PQ3000-0BA15	1 unit

SIVACON S4 Power Distribution Boards

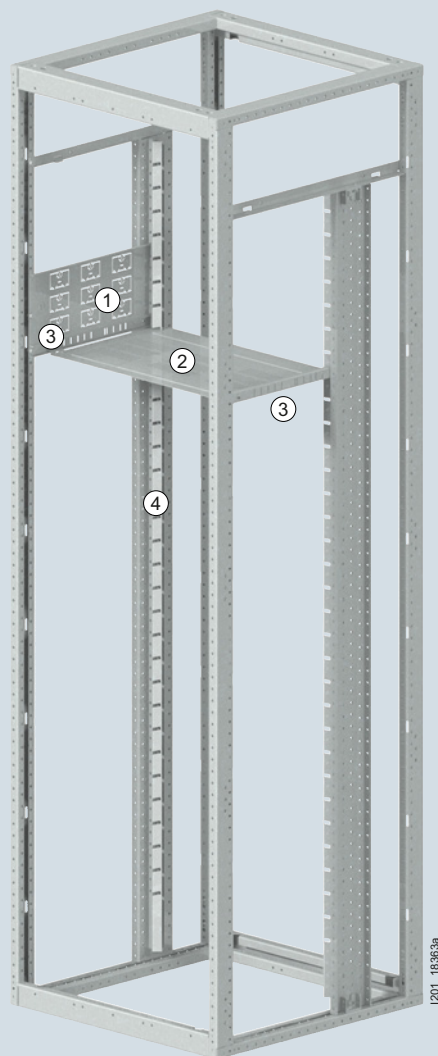
Internal Separation

Modular kits

Overview

Features

- Modular system
- Separation 3b



- ① Separation on the side
- ② Horizontal separation
- ③ Support rails
- ④ Plug-in rails

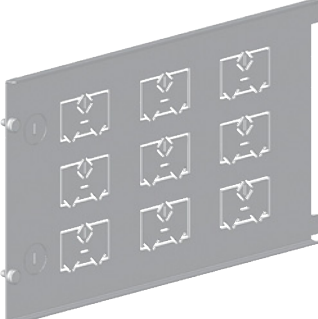
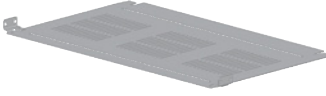


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SIVACON S4 Power Distribution Boards

Internal Separation

Modular kits

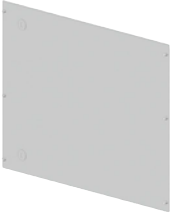
Selection and ordering data

Version	Article No. www.siemens.com/ product?Article No.	PS
 <p>① Side separation</p> <ul style="list-style-type: none"> Kit version: support rails Suitable for connection terminals 		
Mounting height mm	Branch current A	
100	--	8PQ5000-2BA27 1 unit
150	--	8PQ5000-2BA28 1 unit
200	≤ 250	8PQ5000-2BA30 1 unit
	≥ 400	8PQ5000-2BA31 1 unit
250	≤ 250	8PQ5000-2BA32 1 unit
	≥ 400	8PQ5000-2BA33 1 unit
300	≤ 250	8PQ5000-2BA34 1 unit
	≥ 400	8PQ5000-2BA35 1 unit
350	--	8PQ5000-2BA36 1 unit
400	--	8PQ5000-2BA37 1 unit
450	--	8PQ5000-2BA38 1 unit
500	--	8PQ5000-2BA40 1 unit
550	--	8PQ5000-2BA41 1 unit
600	--	8PQ5000-2BA42 1 unit
650	--	8PQ5000-2BA43 1 unit
700	--	8PQ5000-2BA44 1 unit
800	--	8PQ5000-2BA45 1 unit
<p>Side separation</p> <ul style="list-style-type: none"> Kit version: crossbars Suitable for connection terminals 		
Mounting height mm	Branch current A	
400	≥ 800	8PQ5000-3BA50 1 unit
450	≥ 800	8PQ5000-2BA65 1 unit
500	≥ 800	8PQ5000-2BA66 1 unit
600	≥ 800	8PQ5000-2BA48 1 unit
700	≥ 800	8PQ5000-2BA50 1 unit
 <p>② Horizontal separation</p>		
Compartment width mm		
400		8PQ5000-3BA44 1 unit
600		8PQ5000-2BA61 1 unit
800		8PQ5000-2BA62 1 unit
 <p>③ Support rails</p> <ul style="list-style-type: none"> Equipment height 25 mm 		
		8PQ5000-2BA63 1/2 units
 <p>④ Plug-in rails</p>		
Equipment height mm	Busbar system	
1600	At top or bottom	8PQ3000-0BA82 1 unit
1800	Rear or without	8PQ3000-0BA83 1 unit

SIVACON S4 Power Distribution Boards

Internal Separation


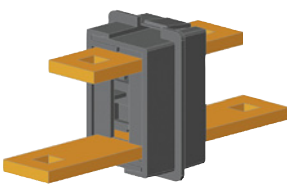
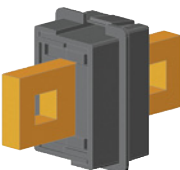
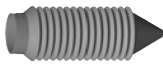
Modular kits

Version		Article No. www.siemens.com/ product?Article.No.	PS	
	⑤ Rear separation Not applicable for frame depth 400			
	Compartment width mm	Mounting height mm		
	600	50	8PQ5000-2BA51	1 unit
		100	8PQ5000-2BA52	1 unit
		150	8PQ5000-4BA40	1 unit
		200	8PQ5000-4BA41	1 unit
		250	8PQ5000-4BA42	1 unit
		300	8PQ5000-4BA43	1 unit
		350	8PQ5000-4BA44	1 unit
		400	8PQ5000-4BA45	1 unit
		450	8PQ5000-4BA46	1 unit
		550	8PQ5000-4BA47	1 unit
	800	50	8PQ5000-2BA67	1 unit
		100	8PQ5000-2BA68	1 unit
		200	8PQ5000-4BA48	1 unit
		250	8PQ5000-4BA50	1 unit
		350	8PQ5000-4BA51	1 unit
400		8PQ5000-4BA52	1 unit	
450		8PQ5000-4BA53	1 unit	

SIVACON S4 Power Distribution Boards

Internal Separation

Modular kits

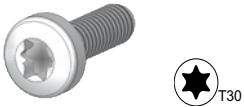

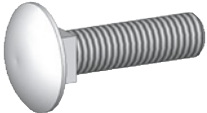





	Version	Article No.		PS
		www.siemens.com/ product?Article No.		
Accessories				
	Connecting terminals • Upgrade for separation 3b to 4a.			
	Package contents	Rated current I_n A	Busbar mm × mm	
	4 units	--	None	8PQ5000-0BA05 1 unit
	2 units	250	2 × 25 × 5	8PQ5000-0BA72 1 unit
	4 units	400 630	1 × 30 × 10 1 × 40 × 10	8PQ5000-0BA73 1 unit 8PQ5000-0BA74 1 unit
Form 4b				
	Protective bellows • For covering the cable connecting terminal • 1 pack = 4 units			8PQ9400-0BA71 4 units

SIVACON S4 Power Distribution Boards

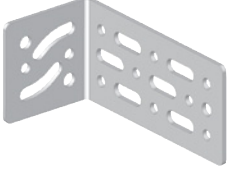



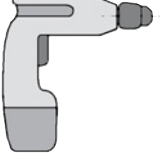


Accessories

Fasteners, extended delivery options

Selection and ordering data

	Version	Article No. www.siemens.com/ product?Article No.	PS
Frame			
	Self-tapping screws • 1 pack = 100 units • For use with frame and crossbars Cylinder-head screws External diameter × length in mm		
	M6 × 10	8PQ9500-0BA34	1 unit
	M6 × 16	8PQ9500-0BA32	1 unit
	M6 × 20	8PQ9500-0BA31	1 unit
	Cap, RAL 7035	8PQ9400-0BA14	1 unit
	Countersunk screws External diameter × length in mm M6 × 12	8PQ9500-1BA07	1 unit
	Vertical busbar connection		
	Square screws DIN 603 1 pack = 50 units External diameter × length in mm		
	M10 × 35	8PQ9500-0BA14	1 unit
	M10 × 45	8PQ9500-0BA16	1 unit
	M10 × 55	8PQ9500-1BA36	1 unit
	M10 × 65	8PQ9500-1BA25	1 unit
	Busbar clamps 1 pack = 20 units	8PQ9400-0BA02	1 unit
	Electrical connections		
	Hexagonal nuts ISO 4032 1 pack = 50 units External diameter M10	8PQ9500-0BA05	1 unit
		Clamping washers DIN 6796 1 pack = 50 units Screw type M10	8PQ9500-0BA60
		Washers DIN 125 1 pack = 50 units For screw type M10	8PQ9500-0BA67
		Lock washers BN208012 1 pack = 50 units For screw type M10	8PQ9500-0BA50
Extended delivery options			
	Following prior agreement and individual offer via ALPHA-support.ic@siemens.com		
	Pre-assembled solutions • Based on SIMARIS configuration • In various expansion stages • Mechanically with or without copper insert	8PQ9998-0BA20-Z	1 unit
	Copper for system sections • Drawings from SIMARIS	8PQ9998-0BA30-Z	1 unit

Selection and ordering data

	Version	Article No. www.siemens.com/ product?Article No.	PS
	Universal mounting brackets 1 pack = 10 units	8PQ9400-0BA01	1 unit
	Lifting eyebolts 1 set = 4 units	8PQ9400-0BA11	1 unit
	Lifting brackets 1 set = 2 units		
	Frame width in mm		
	800	8PQ3000-1BA01	1 unit
	850	8PQ3000-2BA38	1 unit
	1000	8PQ3000-1BA02	1/2 units
	1200	8PQ3000-1BA03	1/2 units
	Cable entries 1 pack = 20 units • $\varnothing_{\text{internal}} = 20 \text{ mm}$ • $\varnothing_{\text{hole}} = 25.5 \text{ mm}$ • Plate thickness = 1.5 mm	8PQ9400-0BA16	1 unit
Tools			
	Bits for screwdriver		
	External diameter × length in mm	Package contents	
	M6 × 200	2 units	
			
	Position switch for mounting as door contact • 1 NO + 1 NC • 1 NO + 2 NC	8MF1000-2VL 8MF1000-2VR	1 unit 1 unit

SIVACON S4 Power Distribution Boards

Accessories

Notes

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