

Switchboards, Distribution Systems and Cabinet Systems

7



7/2

Introduction

SIVACON power distribution systems and motor control centers

7/6 General data
7/7 For processes
7/9 For infrastructure

SICUBE system cabinets and cabinet air conditioning

7/12 Welded design
7/14 Welded/bolted design
7/16 Cabinet air conditioning
7/17 Air conditioners/cooling equipment
7/18 Heat exchangers
7/19 Heaters
7/20 19" withdrawable fan unit

SIKUS 3200 side-by-side switchgear cabinets

7/21 General data
7/26 Side-by-side cabinets
7/30 Side-by-side switchgear cabinets
7/40 Assembly kits for power distribution
7/59 Busbar system
7/64 General accessories
7/66 Busbar accessories

ALPHA 630-DIN floor-mounted distribution boards

7/68 General data
7/70 Unequipped cabinets
7/73 Assembly kits for unequipped cabinets
7/83 Accessories

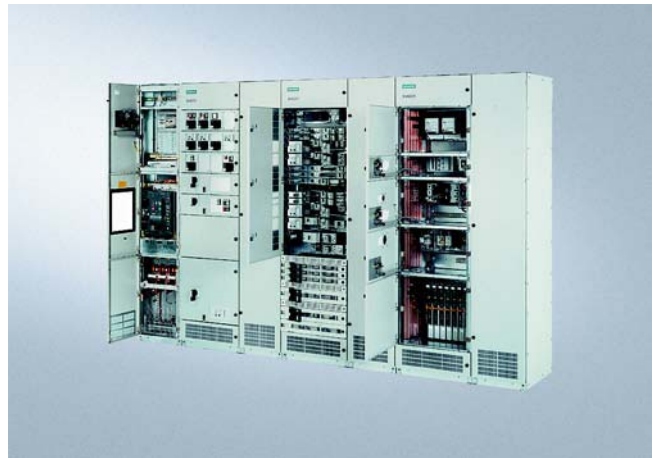
SENTRIC HP molded-plastic distribution system

7/89 General data
7/92 Single enclosures
7/93 Complete enclosures
7/95 Infeed enclosures
7/97 Accessories

Switchboards, Distribution Systems and Cabinet Systems

Introduction

Overview



SIVACON power distribution systems and motor control centers

Up to 7400 A

Reliable, economical, flexible and communication-capable

For all applications in infrastructure and process industry

in circuit-breaker design

in fixed-mounted design

in in-line design

in plug-in design

in withdrawable design

Degree of protection up to IP54

Type-tested

Tested for resistance to internal arcing faults

Tested for resistance to earthquakes



SICUBE system cabinets and cabinet air conditioning

System cabinets for individual solutions including cabinet air conditioning for optimum operating conditions

For a wide range of applications in tough environments and in laboratories, offices and medical practices

Flexible expansion levels and types of delivery

Coordinated logistical and delivery concepts

Degree of protection up to IP55

For heavy integrated equipment up to 1000 kg

System cabinets in EMC design

System cabinets in earthquake-proof design

In all RAL colors, including special colors

Switchboards, Distribution Systems and Cabinet Systems

Introduction



SIKUS 3200 side-by-side switchgear cabinets

For expansion as main and subdistribution boards up to 3200 A

For all applications in infrastructure

For individual and series-connected

Flexible expansion with many different assembly kits and accessories

In circuit-breaker design

In fixed-mounted design

In in-line design

Degree of protection up to IP55

ALPHA 630-DIN floor-mounted distribution boards

Up to 630 A

For applications in non-residential and industrial buildings

Flexible delivery forms (flat pack or preassembled)

Modular system

Many different assembly kits for individual expansion

Safety class 1 and safety class 2

Depth 210 mm, 250 mm and 320 mm

Degree of protection up to IP55

Overtoltage category	V	1000/III	III
Rated impulse withstand voltage U_{imp}		8	6
Clearances in air and creepage distances		DIN VDE 0110	DIN VDE 0110
Rated insulation voltage U_i		1000	690
Rated operating voltage U_e		690	690
Rated voltage U_n (AC 40 Hz to 60 Hz)		-	690 for installed equipment
Rated current	A	3200, main busbars	up to 630
Short-circuit strength			
Main busbars	I_{pk}	kA up to 220	up to 61.3 (3-pole) ¹⁾ , conduction interval 30 ms
	I_{cw} (1 s)	kA up to 100	20, conduction interval 1 s
Distribution buses	I_{pk}	kA up to 220	
	I_{cw} (0.5 s)	kA up to 100	
Protective measures		Safety class 1 (protective conductor terminal)	Safety class 1 (protective conductor terminal) Safety class 2 (total insulation)
Number of conductors in busbar run		3, AC 4, AC 2 and 3, DC	4/5
Degree of protection to EN 60529		IP55, with cover for shock protection and sealed door IP20, with cover for shock protection, without door	IP43 with door, IP55 with door (with matching flanges)
Mounting rail row spacing per mounting rail	mm	-	150
Modular width (MW)		-	18 mm, 12 MW + 1 MW can be mounted
Pollution degree		3	3
Ambient temperature	°C	35 (24 h mean value)	35 (24 h mean value)
Relative atmospheric humidity	%	50 at 40 °C	50 at 40 °C
Test specification		acc. to EN 60439-1 (VDE 0660 Part 500), IEC 60439-1	acc. to EN 60439-1/3 (VDE 0660 Part 500/504), DIN VDE 0603-1
Altitude	m	max. 2000 (above mean sea level)	-
Enclosure		Frame and doors of 2 mm sheet steel	Sheet steel
Surface of metal parts		Electrolytically zinc-coated and powder-coated	Electrolytically zinc-coated and powder-coated
Color		RAL 7035 light gray (other RAL colors on request)	RAL 7035 (light gray)
Locking devices		2/4-point interlocking with integrated espagnolette lock and double-bit key 3 mm pin	3-point interlocking with integrated espagnolette lock (on request can be replaced by other locking systems)
Packing		-	Impact-resistant, environmentally friendly

1) Busbar holder spacing 400 mm, Cu busbars 30 mm x 10 mm.



Enclosure size		1	2	2,5	3	4
8HP molded-plastic distribution system						
Width	mm	307	307	307	307	614
Height	mm	153,5	307	460,5	614	614
Depth						
• 147.0 mm		✓	✓	✓	✓	✓
• 185.0 mm			✓	✓		
• 212.0 mm			✓			
• 239.5 mm					✓	✓
Enclosure designs						
• Empty enclosures						
- Transparent cover		✓	✓	✓	✓	✓
- Opaque cover		✓	✓	✓	✓	✓
Enclosure for modular installation devices						
• 1 x 11 MW						
- Transparent cover		✓				
- Opaque cover		✓				
- Cover with operating flap		✓				
• 2 x 14 MW						
- Transparent cover			✓			
- Opaque cover			✓			
- Cover with operating flap			✓			
• 3 x 14 MW						
- Transparent cover				✓		
- Opaque cover				✓		
- Cover with operating flap				✓		
• 4 x 14 MW						
- Transparent cover					✓	
- Opaque cover					✓	
- Cover with operating flap					✓	
DIAZED fuse housing						
• 3 x 25A (E27)		✓	✓	✓	✓	
• 3 x 63A (E33)		✓	✓	✓	✓	
Enclosure with LV HRC fuse bases						
• 3 x NH00		✓	✓			
• 6 x NH00			✓			
• 3 x NH1			✓	✓		
• 3 x NH2			✓	✓	✓	
• 3 x NH3			✓	✓	✓	
Meter enclosure			✓	✓	✓	✓
Enclosure with SENTRIC NP fuse switch disconnectors						
• NH000		✓	✓			
• NH00		✓	✓	✓		
• NH1			✓	✓	✓	
• NH2			✓		✓	
• NH3					✓	
Enclosure with main control and EMERGENCY-STOP switch						
• $I_e = 63 A$		✓	✓			
• $I_e = 160 A$			✓			
• $I_e = 250 A$			✓		✓	
• $I_e = 400 A$			✓		✓	
• $I_e = 630 A$					✓	
• $I_e = 1000 A$					✓	

SIVACON Power Distribution Systems and Motor Control Centers

General data

Overview

Low-voltage switchboards form the link between equipment (generators), transmission (cables, overhead lines) and transformation (transformers) of electrical energy on the one hand, and the loads, such as motors, solenoid valves, actuators and devices for heating, illumination and air conditioning on the other.

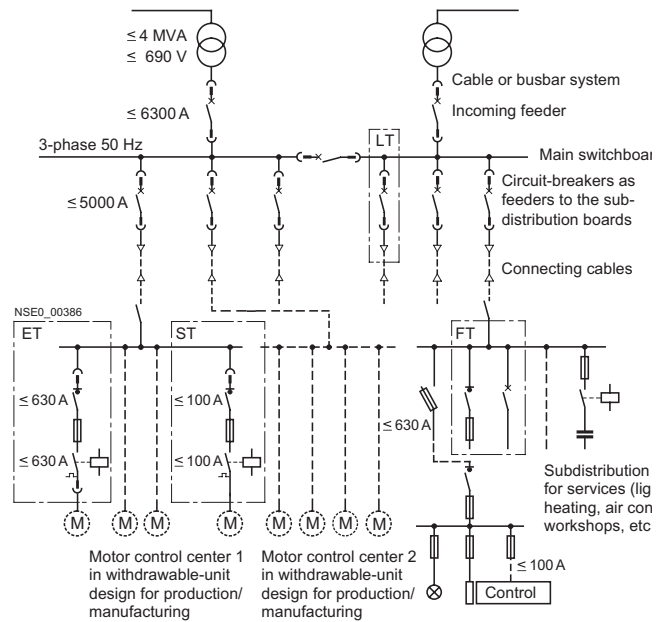
As the majority of applications are supplied with low voltage, the low-voltage switchboard is of special significance in both public supply systems and industrial plants.

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

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 or motor distribution boards, also known as motor control centers (MCC). See example opposite.

The SIVACON low-voltage switchboards offer optimum solutions in low-voltage systems for all applications up to 7400 A. The SIVACON 8PV switchboards are manufactured by Siemens in Leipzig, and the SIVACON 8PT switchboards by our SIVACON Technology Partners near you.

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



ET Withdrawable-unit design LT Circuit-breaker design
 FT Fixed-mounted-unit design ST Plug-in design

Selection criteria	SIVACON 8PV		SIVACON 8PT	
	top	rear	top	rear
Rated currents				
Busbars up to	2500A	6300 A	7400 A	3200 A
Infeed up to	2500 A	6300 A	6300 A	3200 A
Short-circuit strength I_{pk} up to	110 kA	220 kA (250 kA)	375 kA	187 kA
Equipment layout	Fixed-mounted design In-line type Plug-in design Withdrawable-unit design	Fixed-mounted design In-line type Plug-in design Withdrawable-unit design	Fixed-mounted design In-line type Plug-in design Withdrawable-unit design	Fixed-mounted design ¹⁾ In-line type – –
Type of installation	Free-standing/against wall Back to back –	Free-standing/against wall Back to back Double-fronted	Free-standing/against wall Back to back –	Free-standing/against wall Back to back –
Application	Motor control center Power distribution system	Motor control center Power distribution system	Motor control center Power distribution system	– Power distribution system
Manufactured by SIVACON Technology Partner	–	–	x	x

1) Circuit-breakers optionally in withdrawable design.

Overview

The SIVACON 8PV low-voltage switchboard is a type-tested switchgear and controlgear assembly that is used for example in the power industry, in the chemical and oil industries and in the capital goods sector.

It is notable for its excellent service availability and high degree of personnel and system safety. It can be used for all applications up to 6300 A:

- As main switchboard (power control center or main distribution board)
- As motor control center (MCC)
- As sub-distribution board.

With the many combinations that the SIVACON modular design allows, a wide range of demands can be met both in fixed-mounted, plug-in and in withdrawable-unit design.

All modules used are type-tested (TTA), i.e. they comply with the following standards:

- IEC 60439-1
- EN 60439-1, VDE 0660 Part 500

and in addition

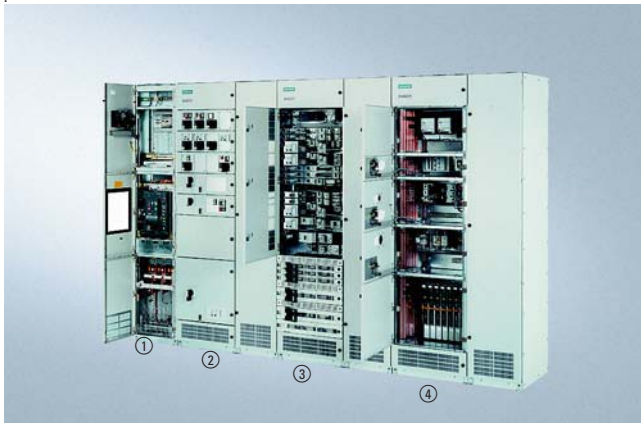
- DIN VDE 0106 Part 100 (protection against electric shock)
- IEC 61641, VDE 0660 Part 500, supplement sheet 2 (arcing faults)
- IEC 60068 Part 2, IEC 60980 (induced shocks)
- Certification to EN 9001 and EN 14001 (quality/environmental management system).

Benefits

- Safety and quality verification for every switchboard through type tests
- Meets every requirement profile with the high quality of series production
- Easy re-ordering and short delivery times
- Type-tested standard modules (TTA)
- Space-saving base areas from 400 mm x 400 mm
- Solid wall design for safe section-to-section separation
- High packing density with up to 40 feeders per cabinet

- Standard operator interface for all withdrawable units
- Test and disconnected position with door closed
- Visible isolating gaps and points of contact
- Alternative busbar positions, at the top or at the rear, in the section
- 3- and 4-pole busbar system up to 6300 A
- Cable/bar connection from above or below

SIVACON 8PV switchboards are always manufactured by Siemens.



- | | |
|--|--|
| <p>① Circuit-breaker design with:</p> <ul style="list-style-type: none"> • SENTRON WL and VL circuit-breakers <p>for:</p> <ul style="list-style-type: none"> - incoming feeders - outgoing feeders to sub-distribution boards and loads - bus couplings. | <p>② Withdrawable-unit design with:</p> <ul style="list-style-type: none"> • outgoing feeders and contactor assemblies (fuseless, fused) <p>for:</p> <ul style="list-style-type: none"> - motors - actuators - solenoid valves - cable feeders. |
| <p>③ Plug-in design with:</p> <ul style="list-style-type: none"> • outgoing feeders and contactor assemblies (fuseless, fused) <p>for:</p> <ul style="list-style-type: none"> - motors - cable feeders (can also be combined with 3NJ6 plug-in load isolating units). | <p>④ Fixed-mounted design with:</p> <ul style="list-style-type: none"> • SENTRON VL circuit-breakers • fuse switch disconnectors • 3NJ4 in-line fuse switch disconnectors <p>for:</p> <ul style="list-style-type: none"> - cable feeders to loads. |

Design

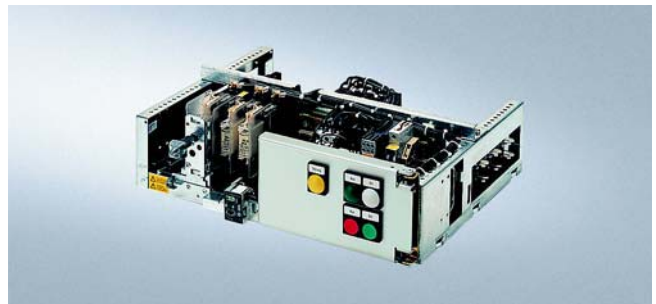
Withdrawable-unit design (MCC design)

- For frequently changing requirements, predominantly in the process industry, the design of choice is the withdrawable-unit design. What is required here is flexibility and the highest level of availability.



Withdrawable unit size 1/4 (11 kW with direct contactor and SIMOCODE DP), withdrawable unit size 1/2 (18.5 kW with direct contactor and SIMOCODE DP)

Without shutting down the switchboard it is possible, for example, to adapt withdrawable units to changed motor outputs or incorporate withdrawable units for new loads. It is even possible to modify the withdrawable unit compartments. With the ease of handling and short conversion times the withdrawable-unit design ensures high levels of system availability.



Withdrawable unit size 1 (30 kW with contactor-type star-delta circuit) You can find further information on the Internet at: www.sivacon.de.

SIVACON Power Distribution Systems and Motor Control Centers

For processes



Withdrawable-unit section

- Test and disconnected position behind closed door without affecting the degree of protection
- Highest packing density with minimum base area (up to 40 withdrawable units per section)
- Integrated operator error protection for all withdrawable units
- Clear indication of unit positions
- Easy insertion of the withdrawable units without overcoming insertion forces
- Visible isolating distances on the infeed and outgoing sides.

Technical specifications

Rated insulation voltage U_i			
Main circuit		V	1000
Rated operating voltage U_e			
Main circuit		V	up to 690
Clearances in air and creepage distances			
Rated impulse withstand voltage U_{imp}		kV	8
Overtoltage category			III
Pollution degree			3
Busbars (3- and 4-pole)			
Horizontal main busbars	Rated current	A	up to 6300
	Rated impulse withstand current I_{pk}	kA	up to 250
	Rated short-time withstand current I_{cw}	kA	up to 100
Vertical busbars, for circuit-breaker design	Rated current	A	up to 6300
	Rated impulse withstand current I_{pk}	kA	up to 250
	Rated short-time withstand current I_{cw}	kA	up to 100
for fixed-mounted design, for in-line type (plugged in)	Rated current	A	up to 2000
	Rated impulse withstand current I_{pk}	kA	up to 110
	Rated short-time withstand current I_{cw}	kA	up to 50 ¹⁾
for plug-in design, for withdrawable-unit design	Rated current	A	up to 1000
	Rated impulse withstand current I_{pk}	kA	up to 143
	Rated short-time withstand current I_{cw}	kA	up to 65 ¹⁾
Device rated currents			
Circuit-breakers		A	up to 6300
Cable feeders		A	up to 1600
Motor feeders		A	up to 630
Internal separation			
Form 1 to form 4			IEC 60439-1, section 7.7, EN 60439-1
Surface treatment			
Frame parts			sendzimir-galvanized
Cover			sendzimir-galvanized/ powder-coated
Doors			powder-coated
Color of powder-coated parts (coating thickness 100 μm \pm 25 μm)			RAL 7032, pebble gray
Degree of protection			
acc. to IEC 60529, EN 60529			IP20 ... IP54
Dimensions			
Height	mm		2200
Width	mm		400 ... 1200
Depth	mm		600 ... 1200

1) Rated conditional short-circuit current I_{cc} up to 100 kA.

SIVACON Power Distribution Systems and Motor Control Centers

For infrastructure

Overview

The SIVACON 8PT low-voltage switchboard is a type-tested switchgear and controlgear assembly that is used for infrastructural supply in industry and in buildings (administrative and functional buildings as well as industrial and commercial buildings), but also in the process industry.

SIVACON 8PT is tailored to the needs of the global market, i.e. it considers the demand for standard solutions from a single source but at the same time for local production. It can be used for all applications up to 7400 A:

- As main switchboard (power control center or main distribution board)
- As motor control center (MCC)
- As sub-distribution board.

With the many combinations that the SIVACON modular design allows, a wide range of demands can be met both in fixed-mounted, plug-in and in withdrawable-unit design.

All modules used are type-tested (TTA), i.e. they comply with the following standards:

- IEC 60439-1
- EN 60439-1, VDE 0660 Part 500

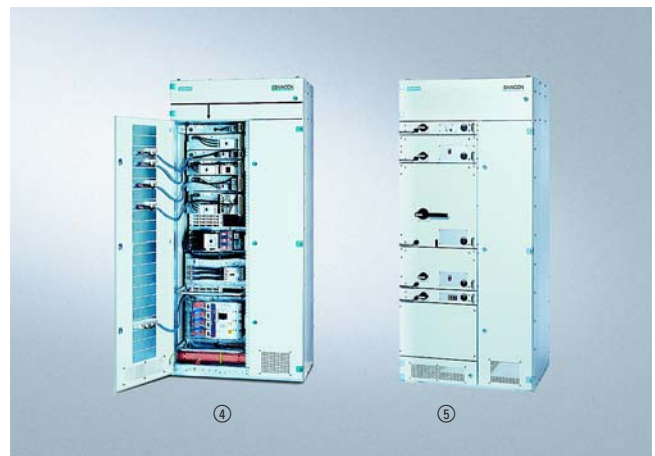
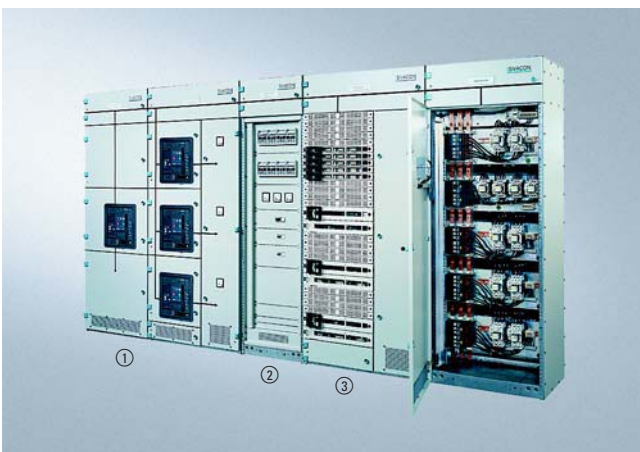
and in addition

- IEC 61641, VDE 0660 Part 500, supplement sheet 2 (arcing faults)
- Certification to EN 9001 and EN 14001 (quality/environmental management system).

SIVACON 8PT with busbar at rear up to 3200 A



SIVACON 8PT with busbar at top up to 7400 A



- ① Circuit-breaker design with:
 - SENTRON WL and VL circuit-breakers for:
 - incoming feeders
 - outgoing feeders to sub-distribution boards
 - busbar couplings
- ② Fixed-mounted with:
 - 3VL, 3RV circuit-breakers
 - 3NP fuse switch disconnectors
 - 3NJ4 in-line fuse switch disconnectors for:
 - cable feeders to loads
- ③ 3NJ6 circuit-breaker design with:
 - 3NJ6 plug-in load isolating units for:
 - cable feeders to loads
- ④ Plug-in design with:
 - outgoing feeders and contactor assemblies (fuseless, fused) for:
 - motor feeders
 - cable feeders.
- ⑤ Withdrawable-unit design with:
 - outgoing feeders and contactor assemblies (fuseless, fused) for:
 - motor feeders
 - actuators
 - solenoid valves
 - cable feeders.

SIVACON Power Distribution Systems and Motor Control Centers

For infrastructure

Benefits

- Safety and quality verification for every switchboard through type test
- Siemens switchgear and controlgear for reliable operation
- Worldwide presence due to local manufacture
- High flexibility for economical solutions
- Type-tested standard modules (TTA)
- Busbar system optionally at the top or at the rear in the cubicle
- 3- and 4-pole busbar system up to 7400 A
- Short-circuit strength I_{pk} up to 375 kA
- Large equipment mounting depth for universal installation
- Modular design of the device compartments
- Wide variety of combination options
- Cable/bar connection from above or below
- For plug-in design and withdrawable-unit design
- Easy and reliable handling
- Speedy modification without interrupting operation
- High availability.

Your advantage: "SIVACON Technology Partner"



The SIVACON 8PT switchboard is manufactured around the world by our SIVACON Technology Partners, with all the advantages that only a local supplier can offer.

The partners selected by Siemens are highly competent, constantly audited switchboard manufacturers located close to you.

Design

Circuit-breaker design

Switchboards for high energy demands usually have a large number of sub-distribution boards and loads connected downstream. This means that there are special requirements with regard to long-term operating reliability and operator safety. The "infeed", "coupling" and "feeder" functions must be reliably available over long periods. Maintenance and testing must entail only short downtimes. The circuit-breaker design meets these requirements with the SENTRON WL and VL circuit-breakers.



SETRON WL 1600 A circuit-breaker, withdrawable design
Section width 400 mm

You can find further information on the Internet at:
www.sivacon.de.



- Circuit-breaker section
- Up to 3 circuit-breakers per section can be installed
 - Test and disconnected position with closed door
 - Free choice of direction of incoming supply without restriction to technical specifications
 - Optimum connection conditions for every rated current range.

Technical specifications

Rated insulation voltage U_i			
Main circuit		V	1000
Rated operating voltage U_e			
Main circuit		V	up to 690
Clearances in air and creepage distances			
Rated impulse withstand voltage U_{imp}		kV	8
Overvoltage category			III
Pollution degree			3
Busbars (3- and 4-pole)			
Horizontal main busbars	Rated current	A	up to 7400
	Rated impulse withstand current I_{pk}	kA	up to 375
	Rated short-time withstand current I_{cw}	kA	up to 150
Vertical busbars, for circuit-breaker design	Rated current	A	up to 6300
	Rated impulse withstand current I_{pk}	kA	up to 250
	Rated short-time withstand current I_{cw}	kA	up to 100
for fixed-mounted design, for in-line type (plugged in)	Rated current	A	up to 2100
	Rated impulse withstand current I_{pk}	kA	up to 110
	Rated short-time withstand current I_{cw}	kA	up to 50 ¹⁾
for plug-in design, for withdrawable-unit design	Rated current	A	up to 1200
	Rated impulse withstand current I_{pk}	kA	up to 163
	Rated short-time withstand current I_{cw}	kA	up to 65 ¹⁾
Device rated currents			
Circuit-breakers		A	up to 6300
Cable feeders		A	up to 1600
Motor feeders		A	up to 630
Internal separation			
Form 1 to form 4			IEC 60439-1, section 7.7, EN 60439-1
Surface treatment			
Frame parts			galvanized/powder-coated/wet-coated
Enclosure			galvanized/powder-coated/wet-coated
Doors			powder-coated
Color of powder-coated parts (coating thickness 100 μm \pm 25 μm)			RAL 7032, pebble gray
Degree of protection			
acc. to IEC 60529, EN 60529			IP30 ...IP54
Dimensions			
Height	mm		2000 ... 2600
Width	mm		400 ... 1200
Depth	mm		600 ... 1200

1) Rated conditional short-circuit current I_{cc} up to 100 kA.

SICUBE System Cabinets and Cabinet Air Conditioning

Welded design

Overview



The system cabinets are sized in accordance with a 100 mm grid. The following minimum and maximum sizes must be taken into account:

- Heights of 400 mm to 2400 mm
- Widths of 300 mm to 1800 mm
- Depths of 300 mm to 2400 mm.

Benefits

Customized solutions

You only have to order what you actually need. And we will supply it too – whether it's an empty cabinet, a complete cabinet or entire rows of cabinets complete with internal components

Tailor-made

Our cabinets are supplied as you want them: as separate parts or completely assembled – with base, swivel frame and side panels.

To every degree of protection

All our cabinets can be supplied to the degree of protection you required:

- IP00
- IP20
- IP40 or
- IP55.

The color sets the tone

Our system cabinets can be delivered in any commonly used RAL color or in more than one color. Special colors are available on request.

Delivery time on request.

Every one a one-off

Customized cutouts, e.g. for instruments and command units, vents, grills or windows with or without plexiglas, are supplied as part of our delivery program.

Safe thanks to grounding concept

By using tapping screws for attaching the cladding parts of the 8MC cabinets, all these parts are integrated into the protective conductor circuit, i.e. no additional grounding measures are necessary.

Furthermore, all components within the SICUBE 8MC cabinet that are fixed in this manner are also integrated into the protective conductor circuit.

Design

Standard version

- Degree of protection IP40/IP55
- Coating RAL 7032/RAL 7035/SN 611¹⁾
- Front door (hinged right) or double-wing doors for the width = 1200 mm
- Espagnolette lock with two-way key, 3 mm pin
- 180° hinges (angle of opening when cabinets mounted side-by-side approx. 135°)
- Rear panel
- Top plate (galvanized)

The order number is composed as follows:

		8	M	C	2	■	■	■	-	■	■	■
Height	1800 mm											
	2000 mm											8
	2200 mm											0
Width	600 mm											6
	800 mm											8
	900 mm											9
	1200 mm											2
Depth	400 mm											4
	600 mm											6
	800 mm											8
Degree of protection	IP40											4
	IP55											5
Installation	Installation as a single unit with two side panels											E
	Side-by-side installation without side panels											R

1) SN 611: Ergo gray in accordance with the Siemens standard. The colors RAL 7032/RAL 7035 and SN 611 are identical in price.

SICUBE System Cabinets and Cabinet Air Conditioning

Welded design

Selection and ordering data

	Width	Depth	DT	Height:	PS*	Weight per PU approx.	DT	Height:	PS*	Weight per PU approx.	DT	Height:	PS*	Weight per PU approx.	
	mm	mm		1800 mm				2000 mm				2200 mm			
				Order No.		kg		Order No.		kg		Order No.		kg	
Degree of protection IP40 - installation as single unit															
600	400	C		8MC2 864-4E	1 unit	on req. C		8MC2 064-4E	1 unit	on req. C		8MC2 264-4E	1 unit	on req. C	
	600	C		8MC2 866-4E	1 unit	on req. C		8MC2 066-4E	1 unit	on req. C		8MC2 266-4E	1 unit	on req. C	
	800	C		8MC2 868-4E	1 unit	on req. C		8MC2 068-4E	1 unit	on req. C		8MC2 268-4E	1 unit	on req. C	
800	400	C		8MC2 884-4E	1 unit	on req. C		8MC2 084-4E	1 unit	on req. C		8MC2 284-4E	1 unit	on req. C	
	600	C		8MC2 886-4E	1 unit	on req. C		8MC2 086-4E	1 unit	on req. C		8MC2 286-4E	1 unit	on req. C	
	800	C		8MC2 888-4E	1 unit	on req. C		8MC2 088-4E	1 unit	on req. C		8MC2 288-4E	1 unit	on req. C	
900	400	C		8MC2 894-4E	1 unit	on req. C		8MC2 094-4E	1 unit	on req. C		8MC2 294-4E	1 unit	on req. C	
	600	C		8MC2 896-4E	1 unit	on req. C		8MC2 096-4E	1 unit	on req. C		8MC2 296-4E	1 unit	on req. C	
	800	C		8MC2 898-4E	1 unit	on req. C		8MC2 098-4E	1 unit	on req. C		8MC2 298-4E	1 unit	on req. C	
1200	400	C		8MC2 824-4E	1 unit	on req. C		8MC2 024-4E	1 unit	on req. C		8MC2 224-4E	1 unit	on req. C	
	600	C		8MC2 826-4E	1 unit	on req. C		8MC2 026-4E	1 unit	on req. C		8MC2 226-4E	1 unit	on req. C	
	800	C		8MC2 828-4E	1 unit	on req. C		8MC2 028-4E	1 unit	on req. C		8MC2 228-4E	1 unit	on req. C	
Degree of protection IP40 - side-by-side installation															
600	400	C		8MC2 864-4R	1 unit	on req. C		8MC2 064-4R	1 unit	on req. C		8MC2 264-4R	1 unit	on req. C	
	600	C		8MC2 866-4R	1 unit	on req. C		8MC2 066-4R	1 unit	on req. C		8MC2 266-4R	1 unit	on req. C	
	800	C		8MC2 868-4R	1 unit	on req. C		8MC2 068-4R	1 unit	on req. C		8MC2 268-4R	1 unit	on req. C	
800	400	C		8MC2 884-4R	1 unit	on req. C		8MC2 084-4R	1 unit	on req. C		8MC2 284-4R	1 unit	on req. C	
	600	C		8MC2 886-4R	1 unit	on req. C		8MC2 086-4R	1 unit	on req. C		8MC2 286-4R	1 unit	on req. C	
	800	C		8MC2 888-4R	1 unit	on req. C		8MC2 088-4R	1 unit	on req. C		8MC2 288-4R	1 unit	on req. C	
900	400	C		8MC2 894-4R	1 unit	on req. C		8MC2 094-4R	1 unit	on req. C		8MC2 294-4R	1 unit	on req. C	
	600	C		8MC2 896-4R	1 unit	on req. C		8MC2 096-4R	1 unit	on req. C		8MC2 296-4R	1 unit	on req. C	
	800	C		8MC2 898-4R	1 unit	on req. C		8MC2 098-4R	1 unit	on req. C		8MC2 298-4R	1 unit	on req. C	
1200	400	C		8MC2 824-4R	1 unit	on req. C		8MC2 024-4R	1 unit	on req. C		8MC2 224-4R	1 unit	on req. C	
	600	C		8MC2 826-4R	1 unit	on req. C		8MC2 026-4R	1 unit	on req. C		8MC2 226-4R	1 unit	on req. C	
	800	C		8MC2 828-4R	1 unit	on req. C		8MC2 028-4R	1 unit	on req. C		8MC2 228-4R	1 unit	on req. C	
Degree of protection IP55 - installation as single unit															
600	400	C		8MC2 864-5E	1 unit	on req. C		8MC2 064-5E	1 unit	on req. C		8MC2 264-5E	1 unit	on req. C	
	600	C		8MC2 866-5E	1 unit	on req. C		8MC2 066-5E	1 unit	on req. C		8MC2 266-5E	1 unit	on req. C	
	800	C		8MC2 868-5E	1 unit	on req. C		8MC2 068-5E	1 unit	on req. C		8MC2 268-5E	1 unit	on req. C	
800	400	C		8MC2 884-5E	1 unit	on req. C		8MC2 084-5E	1 unit	on req. C		8MC2 284-5E	1 unit	on req. C	
	600	C		8MC2 886-5E	1 unit	on req. C		8MC2 086-5E	1 unit	on req. C		8MC2 286-5E	1 unit	on req. C	
	800	C		8MC2 888-5E	1 unit	on req. C		8MC2 088-5E	1 unit	on req. C		8MC2 288-5E	1 unit	on req. C	
900	400	C		8MC2 894-5E	1 unit	on req. C		8MC2 094-5E	1 unit	on req. C		8MC2 294-5E	1 unit	on req. C	
	600	C		8MC2 896-5E	1 unit	on req. C		8MC2 096-5E	1 unit	on req. C		8MC2 296-5E	1 unit	on req. C	
	800	C		8MC2 898-5E	1 unit	on req. C		8MC2 098-5E	1 unit	on req. C		8MC2 298-5E	1 unit	on req. C	
1200	400	C		8MC2 824-5E	1 unit	on req. C		8MC2 024-5E	1 unit	on req. C		8MC2 224-5E	1 unit	on req. C	
	600	C		8MC2 826-5E	1 unit	on req. C		8MC2 026-5E	1 unit	on req. C		8MC2 226-5E	1 unit	on req. C	
	800	C		8MC2 828-5E	1 unit	on req. C		8MC2 028-5E	1 unit	on req. C		8MC2 228-5E	1 unit	on req. C	
Degree of protection IP55 - side-by-side installation															
600	400	C		8MC2 864-5R	1 unit	on req. C		8MC2 064-5R	1 unit	on req. C		8MC2 264-5R	1 unit	on req. C	
	600	C		8MC2 866-5R	1 unit	on req. C		8MC2 066-5R	1 unit	on req. C		8MC2 266-5R	1 unit	on req. C	
	800	C		8MC2 868-5R	1 unit	on req. C		8MC2 068-5R	1 unit	on req. C		8MC2 268-5R	1 unit	on req. C	
800	400	C		8MC2 884-5R	1 unit	on req. C		8MC2 084-5R	1 unit	on req. C		8MC2 284-5R	1 unit	on req. C	
	600	C		8MC2 886-5R	1 unit	on req. C		8MC2 086-5R	1 unit	on req. C		8MC2 286-5R	1 unit	on req. C	
	800	C		8MC2 888-5R	1 unit	on req. C		8MC2 088-5R	1 unit	on req. C		8MC2 288-5R	1 unit	on req. C	
900	400	C		8MC2 894-5R	1 unit	on req. C		8MC2 094-5R	1 unit	on req. C		8MC2 294-5R	1 unit	on req. C	
	600	C		8MC2 896-5R	1 unit	on req. C		8MC2 096-5R	1 unit	on req. C		8MC2 296-5R	1 unit	on req. C	
	800	C		8MC2 898-5R	1 unit	on req. C		8MC2 098-5R	1 unit	on req. C		8MC2 298-5R	1 unit	on req. C	
1200	400	C		8MC2 824-5R	1 unit	on req. C		8MC2 024-5R	1 unit	on req. C		8MC2 224-5R	1 unit	on req. C	
	600	C		8MC2 826-5R	1 unit	on req. C		8MC2 026-5R	1 unit	on req. C		8MC2 226-5R	1 unit	on req. C	
	800	C		8MC2 828-5R	1 unit	on req. C		8MC2 028-5R	1 unit	on req. C		8MC2 228-5R	1 unit	on req. C	

* This quantity or a multiple thereof can be ordered.

SICUBE System Cabinets and Cabinet Air Conditioning

Welded/bolted design

Overview



The system cabinets are sized in accordance with a 100 mm grid. The following minimum and maximum sizes must be taken into account:

- Heights of 400 mm to 2400 mm
- Widths of 300 mm to 1800 mm
- Depths of 300 mm of 2400 mm.

Benefits

Customized solutions

You only have to order what you actually need. And we will supply it too – whether it's an empty cabinet, a complete cabinet or entire rows of cabinets complete with internal components

Tailor-made

Our cabinets are supplied as you want them: As separate parts or completely assembled – with base, swivel frame and side panels.

To every degree of protection

All our cabinets can be supplied to the degree of protection you required:

- IP00
- IP20
- IP40 or
- IP54.

The color sets the tone

Our system cabinets can be delivered in any commonly used RAL color or in more than one color. Special colors are available on request.

Delivery time on request.

Every one a one-off

Customized cutouts, e.g. for instruments and command units, vents, grills or windows with or without plexiglas, are supplied as part of our delivery program.

Safe thanks to grounding concept

By using tapping screws for attaching the cladding parts of the 8MF cabinets, all these parts are integrated into the protective conductor circuit, i.e. no additional grounding measures are necessary.

Furthermore, all components within the SICUBE 8MF cabinet that are fixed in this manner are also integrated into the protective conductor circuit.

Design

Standard version

- Degree of protection IP40/IP54
- Coating RAL 7032/RAL 7035/SN 611¹⁾
- Front door (hinged right) or double-wing doors for the width = 1 200 mm
- Espagnolette lock with two-way key, 3 mm pin
- 180° hinges (angle of opening when cabinets mounted side-by-side approx. 135°)
- Rear panel
- Top plate (galvanized)

The order number is composed as follows:

		8	M	F	2	■	■	-	■	■
Height	1800 mm 2000 mm 2200 mm	8	0	2						
Width	600 mm 800 mm 900 mm 1200 mm		6	8	9	2				
Depth	400 mm 600 mm				4	6				
Degree of protection	IP40 IP54							4	5	
Installation	Installation as a single unit with two side panels Side-by side installation without side panels									E R

1) SN 611: Ergo gray in accordance with the Siemens standard. The colors RAL 7032/RAL 7035 and SN 611 are identical in price.

SICUBE System Cabinets and Cabinet Air Conditioning

Welded/bolted design

Selection and ordering data

	Width	Depth	DT	Height:	PS*	Weight per PU approx.	DT	Height:	PS*	Weight per PU approx.	DT	Height:	PS*	Weight per PU approx.	
	mm	mm		1800 mm				2000 mm				2200 mm			
				Order No.		kg		Order No.		kg		Order No.		kg	
Degree of protection IP40 - installation as single unit															
600	400	C		8MF2 864-4E	1 unit	on req.	C	8MF2 064-4E	1 unit	on req.	C	8MF2 264-4E	1 unit	on req.	
	600	C		8MF2 866-4E	1 unit	on req.	C	8MF2 066-4E	1 unit	on req.	C	8MF2 266-4E	1 unit	on req.	
	800	C		8MF2 868-4E	1 unit	on req.	C	8MF2 068-4E	1 unit	on req.	C	8MF2 268-4E	1 unit	on req.	
800	400	C		8MF2 884-4E	1 unit	on req.	C	8MF2 084-4E	1 unit	on req.	C	8MF2 284-4E	1 unit	on req.	
	600	C		8MF2 886-4E	1 unit	on req.	C	8MF2 086-4E	1 unit	on req.	C	8MF2 286-4E	1 unit	on req.	
	800	C		8MF2 888-4E	1 unit	on req.	C	8MF2 088-4E	1 unit	on req.	C	8MF2 288-4E	1 unit	on req.	
900	400	C		8MF2 894-4E	1 unit	on req.	C	8MF2 094-4E	1 unit	on req.	C	8MF2 294-4E	1 unit	on req.	
	600	C		8MF2 896-4E	1 unit	on req.	C	8MF2 096-4E	1 unit	on req.	C	8MF2 296-4E	1 unit	on req.	
	800	C		8MF2 898-4E	1 unit	on req.	C	8MF2 098-4E	1 unit	on req.	C	8MF2 298-4E	1 unit	on req.	
1200	400	C		8MF2 824-4E	1 unit	on req.	C	8MF2 024-4E	1 unit	on req.	C	8MF2 224-4E	1 unit	on req.	
	600	C		8MF2 826-4E	1 unit	on req.	C	8MF2 026-4E	1 unit	on req.	C	8MF2 226-4E	1 unit	on req.	
	800	C		8MF2 828-4E	1 unit	on req.	C	8MF2 028-4E	1 unit	on req.	C	8MF2 228-4E	1 unit	on req.	
Degree of protection IP40 - side-by-side installation															
600	400	C		8MF2 864-4R	1 unit	on req.	C	8MF2 064-4R	1 unit	on req.	C	8MF2 264-4R	1 unit	on req.	
	600	C		8MF2 866-4R	1 unit	on req.	C	8MF2 066-4R	1 unit	on req.	C	8MF2 266-4R	1 unit	on req.	
	800	C		8MF2 868-4R	1 unit	on req.	C	8MF2 068-4R	1 unit	on req.	C	8MF2 268-4R	1 unit	on req.	
800	400	C		8MF2 884-4R	1 unit	on req.	C	8MF2 084-4R	1 unit	on req.	C	8MF2 284-4R	1 unit	on req.	
	600	C		8MF2 886-4R	1 unit	on req.	C	8MF2 086-4R	1 unit	on req.	C	8MF2 286-4R	1 unit	on req.	
	800	C		8MF2 888-4R	1 unit	on req.	C	8MF2 088-4R	1 unit	on req.	C	8MF2 288-4R	1 unit	on req.	
900	400	C		8MF2 894-4R	1 unit	on req.	C	8MF2 094-4R	1 unit	on req.	C	8MF2 294-4R	1 unit	on req.	
	600	C		8MF2 896-4R	1 unit	on req.	C	8MF2 096-4R	1 unit	on req.	C	8MF2 296-4R	1 unit	on req.	
	800	C		8MF2 898-4R	1 unit	on req.	C	8MF2 098-4R	1 unit	on req.	C	8MF2 298-4R	1 unit	on req.	
1200	400	C		8MF2 824-4R	1 unit	on req.	C	8MF2 024-4R	1 unit	on req.	C	8MF2 224-4R	1 unit	on req.	
	600	C		8MF2 826-4R	1 unit	on req.	C	8MF2 026-4R	1 unit	on req.	C	8MF2 226-4R	1 unit	on req.	
	800	C		8MF2 828-4R	1 unit	on req.	C	8MF2 028-4R	1 unit	on req.	C	8MF2 228-4R	1 unit	on req.	
Degree of protection IP54 - installation as single unit															
600	400	C		8MF2 864-5E	1 unit	on req.	C	8MF2 064-5E	1 unit	on req.	C	8MF2 264-5E	1 unit	on req.	
	600	C		8MF2 866-5E	1 unit	on req.	C	8MF2 066-5E	1 unit	on req.	C	8MF2 266-5E	1 unit	on req.	
	800	C		8MF2 868-5E	1 unit	on req.	C	8MF2 068-5E	1 unit	on req.	C	8MF2 268-5E	1 unit	on req.	
800	400	C		8MF2 884-5E	1 unit	on req.	C	8MF2 084-5E	1 unit	on req.	C	8MF2 284-5E	1 unit	on req.	
	600	C		8MF2 886-5E	1 unit	on req.	C	8MF2 086-5E	1 unit	on req.	C	8MF2 286-5E	1 unit	on req.	
	800	C		8MF2 888-5E	1 unit	on req.	C	8MF2 088-5E	1 unit	on req.	C	8MF2 288-5E	1 unit	on req.	
900	400	C		8MF2 894-5E	1 unit	on req.	C	8MF2 094-5E	1 unit	on req.	C	8MF2 294-5E	1 unit	on req.	
	600	C		8MF2 896-5E	1 unit	on req.	C	8MF2 096-5E	1 unit	on req.	C	8MF2 296-5E	1 unit	on req.	
	800	C		8MF2 898-5E	1 unit	on req.	C	8MF2 098-5E	1 unit	on req.	C	8MF2 298-5E	1 unit	on req.	
1200	400	C		8MF2 824-5E	1 unit	on req.	C	8MF2 024-5E	1 unit	on req.	C	8MF2 224-5E	1 unit	on req.	
	600	C		8MF2 826-5E	1 unit	on req.	C	8MF2 026-5E	1 unit	on req.	C	8MF2 226-5E	1 unit	on req.	
	800	C		8MF2 828-5E	1 unit	on req.	C	8MF2 028-5E	1 unit	on req.	C	8MF2 228-5E	1 unit	on req.	
Degree of protection IP54 - side-by-side installation															
600	400	C		8MF2 864-5R	1 unit	on req.	C	8MF2 064-5R	1 unit	on req.	C	8MF2 264-5R	1 unit	on req.	
	600	C		8MF2 866-5R	1 unit	on req.	C	8MF2 066-5R	1 unit	on req.	C	8MF2 266-5R	1 unit	on req.	
	800	C		8MF2 868-5R	1 unit	on req.	C	8MF2 068-5R	1 unit	on req.	C	8MF2 268-5R	1 unit	on req.	
800	400	C		8MF2 884-5R	1 unit	on req.	C	8MF2 084-5R	1 unit	on req.	C	8MF2 284-5R	1 unit	on req.	
	600	C		8MF2 886-5R	1 unit	on req.	C	8MF2 086-5R	1 unit	on req.	C	8MF2 286-5R	1 unit	on req.	
	800	C		8MF2 888-5R	1 unit	on req.	C	8MF2 088-5R	1 unit	on req.	C	8MF2 288-5R	1 unit	on req.	
900	400	C		8MF2 894-5R	1 unit	on req.	C	8MF2 094-5R	1 unit	on req.	C	8MF2 294-5R	1 unit	on req.	
	600	C		8MF2 896-5R	1 unit	on req.	C	8MF2 096-5R	1 unit	on req.	C	8MF2 296-5R	1 unit	on req.	
	800	C		8MF2 898-5R	1 unit	on req.	C	8MF2 098-5R	1 unit	on req.	C	8MF2 298-5R	1 unit	on req.	
1200	400	C		8MF2 824-5R	1 unit	on req.	C	8MF2 024-5R	1 unit	on req.	C	8MF2 224-5R	1 unit	on req.	
	600	C		8MF2 826-5R	1 unit	on req.	C	8MF2 026-5R	1 unit	on req.	C	8MF2 226-5R	1 unit	on req.	
	800	C		8MF2 828-5R	1 unit	on req.	C	8MF2 028-5R	1 unit	on req.	C	8MF2 228-5R	1 unit	on req.	

* This quantity or a multiple thereof can be ordered.

SICUBE System Cabinets and Cabinet Air Conditioning

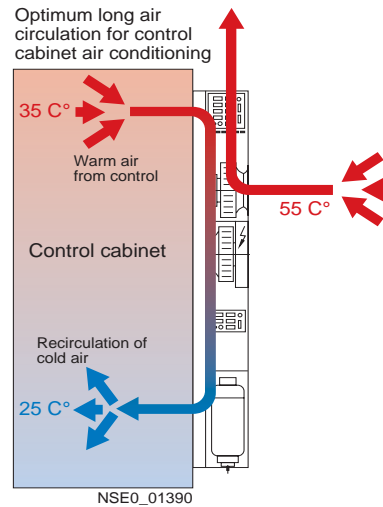
Cabinet air conditioning

Overview

In control cabinets, depending on the ambient conditions (e.g. heat, cold, air humidity etc.), there may be a tendency to over-heat or for mold to form. In such cases the cabinets should be air-conditioned. The following air-conditioning equipment is available for this purpose:

- Filter fans
- Air conditioners/cooling equipment
- Heat exchangers
- Heaters/thermostats

When selecting the individual air-conditioning units, attention should be paid to the ambient temperature, power losses of the installed equipment, maximum permissible device temperatures and heat dissipation of the cabinet used. In addition, the required degree of protection must also be taken into account.



Benefits

Installing air-conditioning equipment in SICUBE system cabinets ensures high fault tolerance for switchgear and controlgear

installations and consequently a high level of availability of machines and plants.

Filter fans

Benefits

After heat dissipation via the surface of a control cabinet and/or ventilation apertures in the enclosure parts of the cabinets, filter fans are the most cost-effective method of removing heat from

the cabinets. However, the effect is to achieve only a cabinet temperature that is above the ambient temperature.

Selection and ordering data

Size	Voltage	DT	Order No.	PS*	Weight per PU approx.
	V				kg

Filter fans with standard filter mat



1	230	C	8MR3 101-0MA	1 unit	0.550
	115	C	8MR3 101-0JA	1 unit	0.550
2	230	C	8MR3 102-0MA	1 unit	0.750
	115	C	8MR3 102-0JA	1 unit	0.750
3	230	C	8MR3 103-0MA	1 unit	1.750
	115	C	8MR3 103-0JA	1 unit	1.750
4	230	C	8MR3 104-0MA	1 unit	1.750
	115	C	8MR3 104-0JA	1 unit	1.750
5	230	C	8MR3 105-0MA	1 unit	3.000
	115	C	8MR3 105-0JA	1 unit	3.000
6	230	C	8MR3 106-0MA	1 unit	3.500
	115	C	8MR3 106-0JA	1 unit	3.500

Size	Size	DT	Order No.	PS*	Weight per PU approx.
	mm				kg

Outlet filters with standard filter mat

1	105 × 105	D	8MR3 111-0AA	1 unit	0.100
2	150 × 150	D	8MR3 112-0AA	1 unit	0.150
3/4	250 × 250	D	8MR3 113-0AA	1 unit	0.500
5/6	325 × 325	D	8MR3 115-0AA	1 unit	0.800

Roof filter fans with standard filter mat

1	417 × 367	D	8MR3 140-1DA	1 unit	6.800
2	530 × 350	D	8MR3 180-1DA	1 unit	8.500

SICUBE System Cabinets and Cabinet Air Conditioning

Air conditioners/cooling equipment

Overview

At ambient temperatures that are higher than the permissible device temperatures it is necessary to use air conditioners. All of these units operate with CFC-free coolants. Air conditioners dehumidify the air inside the cabinet.



Benefits

Cooling units for door or side-panel mounting or top mounting




Two separate air circuits ensure that no ambient air enters the cabinet. Powerful radial-flow fans provide for good air circulation in the cabinet. Simple control of temperature with integrated thermostat (top-mounting units).

Side-mounting units

Intelligent standard electronics with greatest customer benefit:

- Test mode
- Temperature limits
- Startup delay
- Door contact function
- Fault alarm contact
- Local diagnosis
- UL approval.

Selection and ordering data

	Power	Voltage	DT	Order No.	PS*	Weight per PU approx.
	W	V				kg
Air conditioners for door and side mounting (recessable)						
	1000	230	D	8MR5 510-1TE	1 unit	45.000
	1500		D	8MR5 515-1TE	1 unit	45.000
	2000	400/440	D	8MR5 520-1TE	1 unit	55.000
	2500		D	8MR5 525-1TE	1 unit	58.000
	Air conditioners for side mounting					
	320	115/230	C	8MR4 032-1SA	1 unit	19.000
	500		C	8MR4 050-1SA	1 unit	19.000
	820		D	8MR5 082-1SA	1 unit	43.000
	1100		D	8MR5 110-1SA	1 unit	53.000
	1400		D	8MR5 140-1SA	1 unit	58.000
	1400	400/440	D	8MR5 144-1SA	1 unit	58.000
	1800		D	8MR5 180-1SA	1 unit	75.000
	2500		D	8MR5 250-1SA	1 unit	75.000
	3200	230	C	8MR4 320-2SB	1 unit	72.500
	5000		C	8MR4 500-2SB	1 unit	75.000
Air conditioners for top mounting						
	810	230	D	8MR5 081-1DA	1 unit	40.000
	1150		D	8MR5 115-1DA	1 unit	45.000
	1600		D	8MR5 160-1DA	1 unit	50.000
	3000	400	D	8MR5 300-1DA	1 unit	73.000
	3200		C	8MR4 320-2DB	1 unit	73.500
	5000	C	8MR4 500-2DB	1 unit	76.000	

* This quantity or a multiple thereof can be ordered.

SICUBE System Cabinets and Cabinet Air Conditioning

Heat exchangers

Overview

Air-to-air principle (8ME78)

Heat exchangers operating according to the air-to-air principle work with two entirely separate air circuits: an external and an internal circuit. A fan sucks in cool air from the outside. A second fan forces the heated air inside the cabinet past a large-surface-area finned separating element, which passes on the heat to the external circuit.

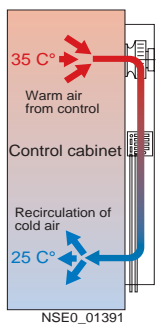
Air-to-water principle (8MR5)

Heat exchangers operating according to the air-to-water principle work with one air circuit. The warm air inside the cabinet is forced across the heat exchanger by a fan. As a result, the heat is dissipated to the cooling medium, water, and the air inside the cabinet is cooled.

Selection and ordering data

Design	Voltage	Size	DT	Order No.	PS*	Weight per PU approx.
	V					kg

Heat exchangers



Aluminum, untreated	220-240	11/06	D	8ME7 814-0	1 unit	14.500
Aluminum, untreated painted in RAL 7032	220-240	11/06	D	8ME7 814-1	1 unit	14.500
Aluminum, untreated	115	16/06	D	8ME7 842-0	1 unit	19.000
Aluminum, untreated painted in RAL 7032	220-240	16/06	D	8ME7 844-0	1 unit	19.000
	220-240	16/06	D	8ME7 844-1	1 unit	19.000
Aluminum, untreated	115	20/06	D	8ME7 862-0	1 unit	22.000
Aluminum, untreated painted in RAL 7032	220-240	20/06	D	8ME7 864-0	1 unit	22.000
	220-240	20/06	D	8ME7 864-1	1 unit	22.000

Power	Voltage	H × W × D	DT	Order No.	PS*	Weight per PU approx.
W	V	mm				kg

Heat exchangers for side mounting

650	230	500 × 200 × 100	D	8MR5 065-2WS	1 unit	5.500
1000		500 × 200 × 100	D	8MR5 100-2WS	1 unit	7.000
1450		1350 × 390 × 189	D	8MR5 145-2WS	1 unit	28.000
1500		950 × 400 × 115	D	8MR5 150-2WS	1 unit	16.000
2450	230	1350 × 390 × 189	D	8MR5 245-2WS	1 unit	31.000
3000		950 × 400 × 190	D	8MR5 300-2WS	1 unit	28.000
4000		860 × 560 × 137	D	8MR5 400-2WS	1 unit	31.000
5000		1400 × 460 × 235	D	8MR5 500-2WS	1 unit	28.000

Heat exchangers for top mounting

1450	230	600 × 390 × 140	D	8MR5 145-2WD	1 unit	21.000
2100		720 × 465 × 190	D	8MR5 210-2WD	1 unit	30.000

SICUBE System Cabinets and Cabinet Air Conditioning

Heaters


Benefits

Control cabinet heaters are used to prevent malfunctions due to condensation or corrosion and to maintain the temperature of control cabinets (maintaining a minimum temperature). The design of the aluminum section ensures even temperature distribu-

tion and hence an optimum heating effect across the entire surface.

All devices are also available in UL-approved and in special-voltage versions.

Selection and ordering data

Power	Voltage	Series	DT	Order No.	PS*	Weight per PU approx.	
W	V					kg	
Heaters							
	10	110-250	HGK047	B	8MR2 110-0B	1 unit	0.100
	20		HGK047	B	8MR2 110-2B	1 unit	0.200
	30		HGK047	B	8MR2 110-2B	1 unit	0.200
	15	110-250	HG040	B	8MR2 110-1A	1 unit	0.300
	30		HG040	C	8MR2 110-3A	1 unit	0.300
	45		HG040	B	8MR2 110-4A	1 unit	0.300
	60		HG040	B	8MR2 110-6A	1 unit	0.400
	75		HG040	B	8MR2 110-7A	1 unit	0.500
	100		HG040	B	8MR2 111-0A	1 unit	0.500
	150		HG040	B	8MR2 111-5A	1 unit	0.700
	15	110-250	HG140	C	8MR2 130-1A	1 unit	0.300
	20		HG140	C	8MR2 130-3A	1 unit	0.300
	45		HG140	C	8MR2 130-4A	1 unit	0.300
	60		HG140	C	8MR2 130-6A	1 unit	0.400
	75		HG140	C	8MR2 130-7A	1 unit	0.500
100		HG140	C	8MR2 130-0A	1 unit	0.500	
150		HG140	C	8MR2 130-5A	1 unit	0.700	


Heating fans

Benefits

At higher heat outputs of 150 W and above, heaters with fans (heating fans) are used. The integrated fans provide for better air circulation and therefore bring about an even air temperature in the cabinet.

All devices are also available in UL-approved and in special-voltage versions.

Selection and ordering data

Power	Voltage	Series	DT	Order No.	PS*	Weight per PU approx.	
W	V					kg	
Heating fans							
	250	220-250	HGL046	B	8MR2 122-4E	1 unit	1.000
	400		HGL046	B	8MR2 122-8E	1 unit	1.300
	350	230	CR027	C	8MR2 140-3C	1 unit	1.100
	550		CR027	C	8MR2 140-5C	1 unit	1.100
	600	230	HV030	C	8MR2 140-6C	1 unit	0.600
	600		HVL030	C	8MR2 140-6D	1 unit	1.000

SICUBE System Cabinets and Cabinet Air Conditioning

19" withdrawable fan unit

Benefits

The compact, powerful withdrawable fan unit is used for circulating the air in control and server cabinets and for targeted heat removal in 19" modules.

The natural convection on the cabinet surface is improved, preventing the formation of hot spots.

Selection and ordering data

Power	Voltage	Series	DT	Order No.	PS*	Weight per PU approx.
W	V					kg

19" withdrawable fan unit

45	230	LE 019	C	8MR2 190-1A	1 unit	3.300
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Thermostats

Benefits

Thermostats (NC/NO contacts) are used to control cooling devices, filter fans or heat exchangers or for switching sensors when a set temperature is exceeded.

Selection and ordering data

Design	Temperature	Series	DT	Order No.	PS*	Weight per PU approx.
	°C					kg

Thermostats

NC	0 ... + 60	KTO 01140	B	8MR2 170-1BA 8MR2 170-1CA 8MR2 170-1DA	1 unit	0.050
	- 10 ... + 50	KTO 01140	C		1 unit	0.050
	+ 20 ... + 80	KTO 01140	C		1 unit	0.050
NO	0 ... + 60	KTS 01141	B	8MR2 170-1BB 8MR2 170-1CB 8MR2 170-1DB	1 unit	0.050
	- 10 ... + 50	KTS 01141	C		1 unit	0.050
	+ 20 ... + 80	KTS 01141	C		1 unit	0.050



Twin thermostats

NC and NO	+ 20 ... + 80	ZR 011	C	8MR2 170-1E	1 unit	0.090
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Mechanical thermostats

CO	+ 10 ... + 60	FZK 011	B	8MR2 170-1A	1 unit	0.100
	- 20 ... + 30	FZK 011	C			



SIKUS 3200 Side-by-Side Switchgear Cabinets

General data

Benefits

- Modular design principle for a variety of cabinet combinations, whether for individual or side-by-side installation
- High standard of quality and safety
- Flexible expansion with many different assembly kits and accessories
- Easy to install thanks to modular kit system
- Reliable contacting due to grounding concept with thread-forming tapping screws
- The appropriate version to suit every requirement
- Easy planning and configuring
- Attractive design

Area of application

The individual and side-by-side cabinets of the SIKUS 3200 system conform to the relevant standards. They can be used as main distribution boards and sub-distribution boards in:

- administrative and non-residential buildings
- industrial and commercial buildings
- public buildings such as schools and hospitals

Other possible uses include those as a control cabinet for heating, ventilation, electronics and communication.



Technical specifications

Environmental aspects

The plastics used are recyclable. The paints used are free from solvents, cadmium and lead.

Form of internal separation (compartmentalization)

Partitions increase the level of operator safety and protect against solid foreign bodies passing between adjacent units.

Overvoltage category	V	1000/III
Rated impulse withstand voltage U_{imp}	kV	8
Air and creepage clearances		DIN VDE 0110
Rated insulation voltage U_i	V	1000
Rated operating voltage U_e	V	690
Rated current	A	3200, main busbars
Short-circuit strength		
Main busbars	I_{pk}	kA up to 220
	I_{cw} (1 s)	kA up to 100
Distribution busbars	I_{pk}	kA up to 220
	I_{cw} (0.5 s)	kA up to 100
Protective measures		Safety class 1 (protective conductor terminal)
Number of conductors in busbar run		3, AC 4, AC 2 and 3, DC
Degree of protection to EN 60529		IP55, with cover for shock protection and sealed door IP20, with cover for shock protection, without door
Pollution degree		3
Ambient temperature	°C	35 (24 h mean value)
Relative atmospheric humidity	%	50 at 40 °C
Altitude	m	max. 2000 (above mean sea level)
Enclosure		Frame and doors of 2 mm sheet steel
Surface of metal parts		Electrolytically zinc-coated and powder-coated
Color		RAL 7035 light gray (other RAL colors on request)
Locking devices		2/4-point interlocking with integrated espagnolette lock and double-bit key 3 mm pin

SIKUS 3200 Side-by-Side Switchgear Cabinets

General data

Technical specifications

Constructional and test requirements

The partially equipped SIKUS 3200 modular cabinets are tested as "type-tested low-voltage switchgear assemblies" (TTA) according to EN 60439-1 (VDE 0660 Part 500) IEC 60439-1.

The manufacturer of a switchboard is usually the manufacturer of the switchgear and controlgear. During installation, the switchgear manufacturer must pay attention to the special instructions for the partially equipped SIKUS 3200 modular cabinets and for the Siemens switching devices that are to be fitted. We offer a two-day distribution board training course for this purpose.

If there are deviations in the components fitted or in the dimensions, the characteristics of the type-tested SIKUS 3200 modular cabinets change accordingly.

The tested characteristics of the switchgear and controlgear assembly TTA must not change to an impermissible extent, for example with regard to:

- Short-circuit strength
- Temperature rise
- Arcing spaces of the switching devices

Provided account is taken of the standard IEC 60204-1 (EN 60204-1), equipment safety, it is also possible to use the units for control systems for machinery and process plants.

Type testing

The SIKUS 3200 type-tested modular cabinets satisfy the requirements in the following categories:

- temperature-rise limit
- insulation strength
- short-circuit strength
- effectiveness of the protective conductor
- air and creepage clearances
- mechanical functions
- degree of protection



As the manufacturer, the switchgear and controlgear maker must set up the installation in conformance with EN 60439-1 (VDE 0660 Part 500), IEC 60439-1 and the instructions of the system supplier.

The routine test for

- wiring
- electrical functions
- insulation
- protective measures

must subsequently be performed by the manufacturer (switchgear and controlgear maker), and the test report must be signed.

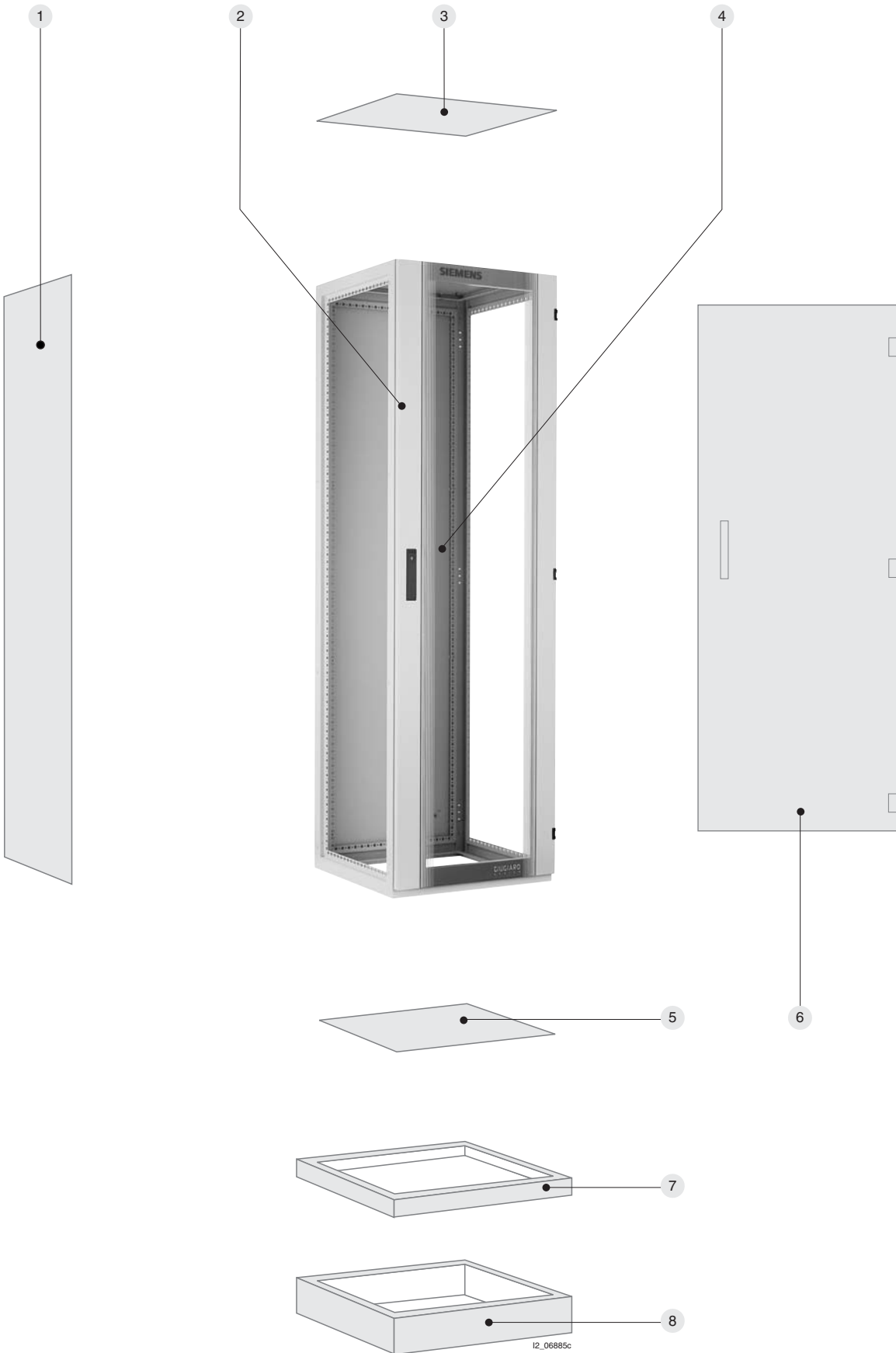
The internal arcing fault test is performed in accordance with EN 60439-1, supplement sheet 2 (VDE 0660, Part 500, supplement sheet 2) or IEC 61641 (report).

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Unabhängiges, akkreditiertes Prüfaboratorium · Independent, accredited test laboratory																																													
PRÜFBESCHEINIGUNG																																													
Über durchgeführte Typprüfungen im angegebenen Umfang																																													
Siemens AG, Automatisierungs- und Antriebstechnik Siemensstraße 10 D-93055 Regensburg		AUFTRAGGEBER																																											
Siemens AG		HERSTELLER																																											
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 RONALD BORCHERT Leiter Niederspannungs-Prüffeld Berlin, 21. Juni 2001	 JÜRGEN VÖCKER Verantwortlicher Prüflingenieur																																												
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SIKUS 3200 Side-by-Side Switchgear Cabinets

General data

Design



SIKUS 3200 Side-by-Side Switchgear Cabinets

General data

All cabinet designs are modular, constructed according to the same principle.

The enclosure consists of a sturdy, perforated stay frame with top, floor and rear panel along with side panels, and depending on the width a single or double door. It is made of electrolytically zinc-coated and powder-coated sheet steel, and satisfies safety class 1 (protective conductor terminal).

The enclosure can be combined as required with appropriate assembly kits, enclosure components and doors.

With doors, the enclosures have degree of protection IP55 as standard. When individual cabinets are installed side by side, however, a seal between the stay frames is needed in order to achieve degree of protection IP55. The door can be hinged either on the left or right. The door opening angle is 180°, helping to provide unimpeded escape routes if operating rooms leave little space.

To match the enclosures there are appropriate type-tested busbar systems for rated currents up to 3200 A. The busbars can be arranged horizontally or vertically in the cabinets.

A fully developed and coordinated range of assembly kits for fixed-mounted and withdrawable-unit design is available.

The cabinets can be equipped with Siemens switchgear and controlgear and modular installation devices, mounted on standard mounting rails and support plates.

System design according to the modular design principle

Stable cabinet frames with 25 mm hole spacing in accordance with DIN 43660, including:

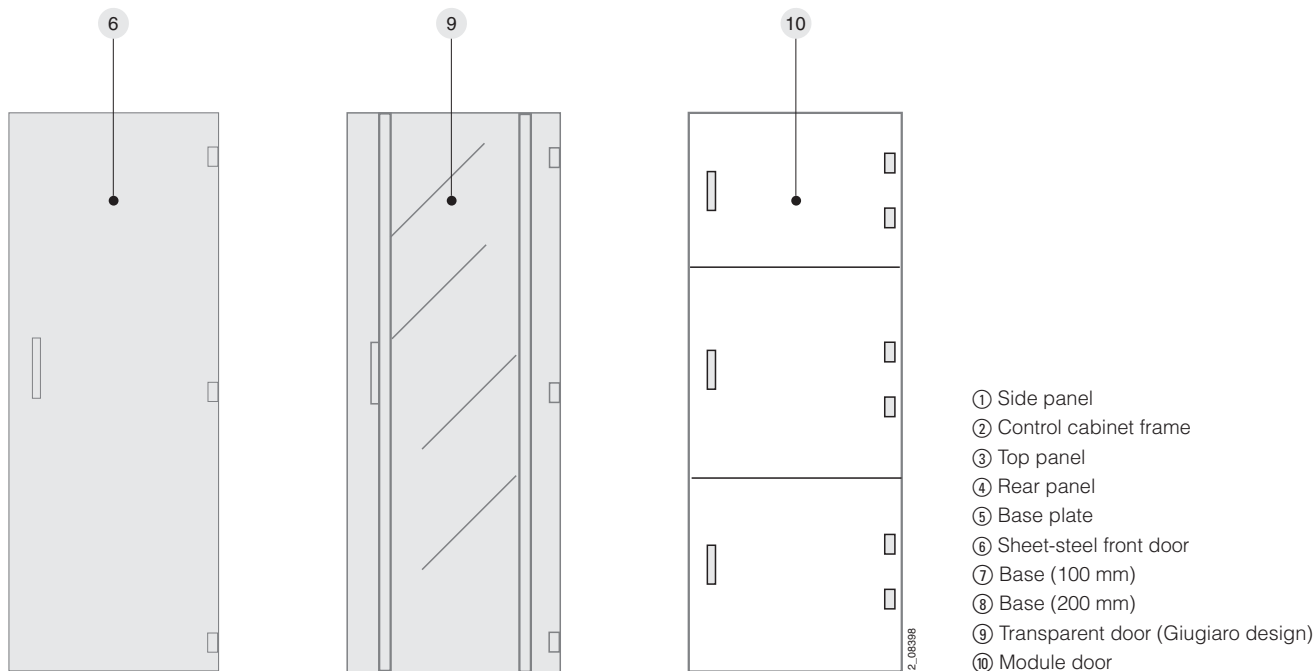
- System-specific frame covering
- Cable entry from above or below
- Busbars arranged horizontally or vertically
- Base frame accessible from four sides
- Cabinet-height doors with espagnolette lock, 4-point interlocking and double-bit key with 3 mm pin
- Door opening angle 180°, door hinged either left or right
- Doors with expanded foam door seal
- Fixing with thread-forming tapping screws

All parts mounted with this fixing technique are therefore included in the protective measure.

Cabinet variants

- Unequipped section
- Section with mounting plate for mounting any equipment
- Section with assembly kit for circuit-breakers
- Section with standard mounting rails for modular installation devices
- Section with assembly kit for switch disconnectors
- Section with assembly kit for LV HRC fuse switch disconnectors
- Section with assembly kit for LV HRC in-line fuse switch disconnectors
- Section with assembly kit for switch disconnectors with LV HRC fuses in in-line design
- Section with assembly kit for p.f. correction modules
- Section with assembly kit for 19" system expansion
- Section with adapter kit for installing assembly kits from the SIKUS distribution board systems with plastic section covers

7

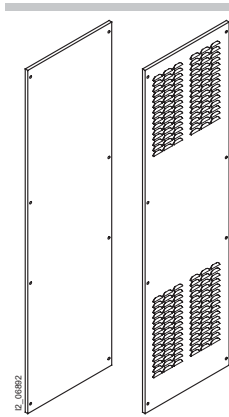
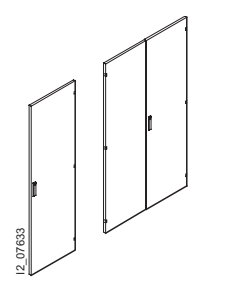
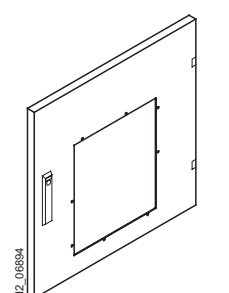
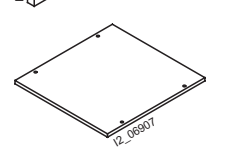
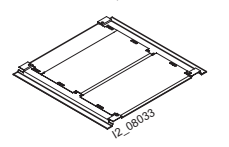
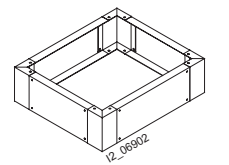


SIKUS 3200 Side-by-Side Switchgear Cabinets

General data

- Safety class 1
- Achievable degree of protection IP30/IP55

- Color: RAL 7035 light gray, other RAL colors on request

 <p>I2_06882</p>	<p>Side panels</p>	<p>Sheet steel, electrolytically zinc-coated, powder-coated</p>
 <p>I2_07633</p>	<p>Front doors</p>	<ul style="list-style-type: none"> • Outside doors, 2 mm sheet steel, electrolytically zinc-coated, powder-coated • 4-point interlocking, integrated espagnolette lock with double-bit key, 3 mm pin • Doors factory-fitted for right-sided hinging, all doors can be hinged right or left • Lock can be replaced by recessable lock-and-release lever and installation facility for profile half cylinder • Door opening angle 180°
 <p>I2_06894</p>	<p>Module doors</p>	<ul style="list-style-type: none"> • Including lock system with 2-point interlocking, double-bit key with 3 mm pin • Sheet steel, electrolytically zinc-coated, powder-coated • Door opening angle 180°
 <p>I2_06907</p>	<p>Top panel</p>	<ul style="list-style-type: none"> • Top panels, 1.5 mm sheet steel, electrolytically zinc-coated, powder-coated including fixing accessories • Top panel with closed aluminum flange plate for cable glands IP55, electrolytically zinc-coated, powder-coated including fixing accessories
 <p>I2_08033</p>	<p>Base plate</p>	<p>Base plate 1.5 mm sheet steel, sendzimir-galvanized, powder-coated including fixing accessories</p>
 <p>I2_06902</p>	<p>Base frame</p>	<ul style="list-style-type: none"> • Sheet-steel base frame, electrolytically zinc-coated, powder-coated, fully mounted, including fixing accessories • Base frame easy to open on all 4 sides

SIKUS 3200 Side-by-Side Switchgear Cabinets

Side-by-side cabinets

Benefits

- Can be used as incoming or outgoing-feeder section
- Degree of protection IP20/IP30/IP40/IP54/IP55 achievable
- Color: RAL 7035 light gray, other RAL colors on request
- When ordering a cabinet with a different

top panel/rear panel, the Order No. "8GG. ..." must be supplemented with the order code "-Z" and plain text

Standards

DIN VDE 0660 Part 500 (TTA/PTTA), DIN 43660, DIN 43870, EN 60439-1, IEC 60439-1

Design



Content of the TTA cabinets

- Consisting of:
 - control cabinet frame
 - top panel
 - rear panel
 - sheet-steel door or module door.
- With assembly kits installed for fitting switchgear and controlgear
- Assembly kits with sheet-steel cover for touch protection when devices are installed behind the door

Supplementary components

- Standard busbar holder
- Fixing bracket
- Single-pole busbar holder
- Base frame
- Base plate
- Side panel
- Locking systems
- Connecting sets
- Cable brackets
- Partitions



Selection and ordering data

	Dimensions			DT	Order No.	PS*	Weight per PU approx. kg
	H	W	D				
	mm	mm	mm				
Modular cabinet with							
	3VF5, 3VF6 circuit-breaker, 3-pole						
	<ul style="list-style-type: none"> • Rated current $I_n = 200$ A to 800 A • For fixed mounting • Device installation behind the door 						
	2 x 3VF5, $I_n = 200$ A to 400 A 1 x 3VF6, $I_n = 200$ A to 800 A	2000	600	600	B	8GG1 412-2KK01	1 unit
3 x 3VF5, $I_n = 200$ A to 400 A 2 x 3VF6, $I_n = 200$ A to 800 A	2000	800	600	B	8GG1 413-2KK01	1 unit	129.000
Busbar riser section							
<ul style="list-style-type: none"> • Rated current $I_n \leq 3200$ A • Can be equipped with molded-case circuit-breaker (e.g. 3VF6) • Roof with ventilation domes • IP30 							
	2000	600	800	A	8GG1 422-2KK02	1 unit	117.000
	3VF8 circuit-breaker						
	<ul style="list-style-type: none"> • Rated current I_n max. 2500 A • For fixed mounting • Operating mechanism and device installation behind the door • Doors with double-bit key 						
	2000	600	600	B	8GG1 412-2KK00	1 unit	102.000

See also under supplementary components (Page 7/34), busbar system (Page 7/59) and general accessories (Page 7/64).

SIKUS 3200 Side-by-Side Switchgear Cabinets



Side-by-side cabinets

	Dimensions			DT	Order No.	PS*	Weight per PU approx.
	H	W	D				
	mm	mm	mm				kg
Modular cabinet with							
	3WN6, circuit-breaker, 3-pole with measurement						
	<ul style="list-style-type: none"> Rated current $I_n = 630$ A to 3200 A For fixed-mounted or withdrawable-unit design With integrated mounting plate and horizontal compartmentalization in the measurement cabinet Module doors with double-bit key 						
	2000	600	600	A	8GG1 412-2KK10	1 unit	96.900
	Door sealing frame (required for IP55)			A	3WX3 686-0JA00	1 unit	1.000
	3WN6 circuit-breaker, 3-pole max. 3200 A						
	<ul style="list-style-type: none"> Rated current $I_n = 630$ A to 2500 A For fixed mounting Can be used as bus-type breaker panel Module doors with double-bit key 						
	2000	600	600	B	8GG1 412-2KK11	1 unit	89.800
	Door sealing frame (required for IP55)			A	3WX3 686-0JA00	1 unit	1.000
	3WN1 circuit-breaker, 3-pole, $I_{cw} = 100$ kA						
<ul style="list-style-type: none"> Rated current $I_n = 3200$ A Bus-type breaker panel For withdrawable-unit design With integrated mounting plate and horizontal compartmentalization Module doors with double-bit key Ventilation in module door at bottom Roof with ventilation domes IP30 							
Up to 2500 A	2000	600	800	A	8GG1 422-2KK13	1 unit	101.000
Up to 3200 A		800		A	8GG1 423-2KK13	1 unit	107.000

Note: internal arcing fault test on request.
See also under supplementary components (Page 7/34), busbar system (Page 7/59) and general accessories (Page 7/64).

SIKUS 3200 Side-by-Side Switchgear Cabinets



Side-by-side cabinets

	Dimensions			DT	Order No.	PS*	Weight per PU approx.			
	H	W	D							
	mm	mm	mm				kg			
Modular cabinet with										
	3WS vacuum circuit-breaker, with measurement									
	<ul style="list-style-type: none"> Rated current $I_n = 630$ A to 3200 A For fixed-mounted or withdrawable-unit design With integrated mounting plate and horizontal compartmentalization in the measurement cabinet Doors with double-bit key 									
	2000	600	600	B	8GG1 412-2KK12	1 unit	96.900			
				D	3WX3 186-0JA01	1 unit	1.000			
	Door sealing frame (required for IP55)									
	3NP4 LV HRC fuse switch disconnectors, 3-pole									
	<ul style="list-style-type: none"> Rated current $I_n \leq 630$ A Devices and operating mechanism behind the door, without molded-plastic covers With cabinet-height door, protection class IP 55 									
	1 x 3NP43 70, $I_n = 400$ A 1 x 3NP44 70, $I_n = 630$ A			2000	600	600	B	8GG1 412-2KK21	1 unit	106.000
	2 x 3NP43 70, $I_n = 400$ A 2 x 3NP44 70, $I_n = 630$ A			2000	800	600	B	8GG1 413-2KK21	1 unit	124.000
	3NJ4 LV HRC in-line fuse switch disconnectors, 3-pole									
	<ul style="list-style-type: none"> Rated current $I_n = 160$ A to 630 A Operating mechanism and device installation through the door, IP20 With module doors and busbar holders 									
	• Can be equipped with:									
	width 600 mm: 4 units 3NJ41, size 00 (with adapter 8 units) up to size 3			2000	600	600	B	8GG1 412-2KK30	1 unit	86.600
	width 800 mm: 6 units 3NJ41, size 00 (with adapter 12 units) up to size 3			2000	800	600	B	8GG1 413-2KK30	1 unit	97.400
	width 1100 mm: 10 units 3NJ41, size 00 (with adapter 20 units) up to size 3			2000	800	600		on request		

See also under supplementary components (Page 7/34), busbar system (Page 7/59) and general accessories (Page 7/64).

SIKUS 3200 Side-by-Side Switchgear Cabinets

Side-by-side cabinets

	Dimensions			DT	Order No.	PS*	Weight per PU approx.
	H	W	D				
	mm	mm	mm				kg
Modular cabinet with							
	3NJ6/SASIL plug-in in-line fuse switch disconnectors with LV HRC fuses (made by J. Müller); in sizes 00 to 3, in in-line design, 3-pole, vertical						
	<ul style="list-style-type: none"> Rated current $I_n = 160$ A to 630 A Busbar holder for multi-terminal busbar (required) Can be equipped with: 						
	width 600 mm: 5 units 3NJ61, sizes 00 (with adapter 10 units) to size 3	2000	600	600	on request		
	width 1100 mm: 10 units 3NJ61, sizes 00 (with adapter 20 units) to size 3	2000	1100	600	on request		
	p.f. correction panel						
	Prepared for inductor- or non-choked capacitor modules and controller modules for 4RF5 power factor controllers with top panel including ventilation apertures						
	<ul style="list-style-type: none"> As p.f. correction panel Modules behind the door Cabinet-height door hinged right, with ventilation slots and perforated top plate, IP30 Max. 5 modules can be installed, each with 50 kvar (choked 5.67% or 7%) or 100 kvar 						
		2000	850	600	B	8GG1 414-2KK40	1 unit 115.000

See also under supplementary components (Page 7/34), busbar system (Page 7/59) and general accessories (Page 7/64).

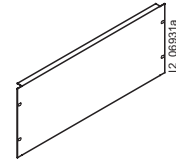
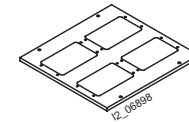
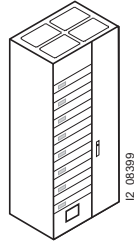
SIKUS 3200 Side-by-Side Switchgear Cabinets

Side-by-side switchgear cabinets

Side-by-side switchgear cabinets for plug-in in-line fuse switch disconnectors with LV HRC fuses 3NJ6/SASIL (J. Müller); in sizes 00-3, in-line design, 3-pole

- Rated current $I_n = 160$ A to 630 A
- Can be equipped up to height = 1500 mm
- Busbar holder for multi-terminal busbar (required)
- Compensating cover (required)

Cable terminal compartment with cabinet-height side door, IP40, device cabinet without door
Cable terminal compartment and device cabinet with cabinet-height door, IP55 achievable



Dimensions	Side-by-side switchgear cabinets	Base plate		Top panel		Unequipped section covers for unoccupied slots			
		with cellular-rubber flange	mm 1000 × 600 IP 30	with cellular-rubber flange	with ventilation apertures and cellular-rubber flange	mm 1000 × 600 IP 30	W=600 mm	H=100 mm	H=200 mm
H	W	D	Order No. DT	Order No. DT	Order No. DT	Order No. DT	Order No. DT	Order No. DT	Order No. DT
mm	mm	mm	PS* Weight per PU approx. kg	PS* Weight per PU approx. kg	PS* Weight per PU approx. kg	PS* Weight per PU approx. kg	PS* Weight per PU approx. kg	PS* Weight per PU approx. kg	PS* Weight per PU approx. kg
2000	1000	600	8GG1 415-2KK31 A 1 unit 107.000	8GG3 375-5 B 1 unit 6.300	8GG3 345-1 B 1 unit 6.300	8GG3 345-5 B 1 unit 6.300	8GG4 840-0 A 1 unit 1.300	8GG4 840-1 A 1 unit 2.300	8GG4 840-2 B 1 unit 4.300
2000	1100	600	8GG1 416-2KK31 A 1 unit 132.000	–	–	–	8GG4 840-0 A 1 unit 1.300	8GG4 840-1 A 1 unit 2.300	8GG4 840-2 B 1 unit 4.300

Accessories

Dimensions	Section busbar holder, type-tested				Blanking cover, with ventilation slots	
	1 × 40 × 10 715 A	1 × 60 × 10 985 A	1 × 80 × 10 1240 A	1 × 100 × 10 1490 A	H = 50 mm	H=100 mm
W	Order No. DT	Order No. DT	Order No. DT	Order No. DT	Order No. DT	Order No. DT
mm	PS* Weight per PU approx. kg	PS* Weight per PU approx. kg	PS* Weight per PU approx. kg	PS* Weight per PU approx. kg	PS* Weight per PU approx. kg	PS* Weight per PU approx. kg
1000/1100	8GG5 200-0 A 1 set 3.800	8GG5 200-1 A 1 set 3.900	8GG5 200-2 A 1 set 4.000	8GG5 200-3 A 1 set 4.100	3NJ6 916-4AA00 A 1 unit 0.306	3NJ6 916-4DA00 A 1 unit 0.497

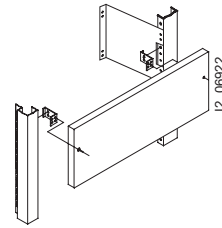
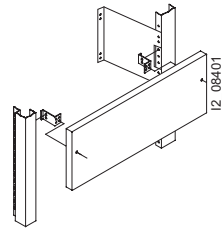
Note: internal arcing fault test on request.

See also under supplementary components (page 2/34), busbar system (page 2/59) and general accessories (page 2/64).

SIKUS 3200 Side-by-Side Switchgear Cabinets

Side-by-side switchgear cabinets

Dimensions	Compensating covers for 3NJ6				Compensating covers SASIL				
	W=1000 mm IP30		W=1100 mm IP55		W=1000 m IP30		W=1100 mm IP55		
	at the top/ bottom	at the top/ bottom with ventilation slots	at the top	at the bottom	at the top	at the bottom	at the top with ventilation slots	at the bottom with ventilation slots	at the top/ bottom



H mm	W mm	D mm	Order No. DT PS* Weight per PU approx. kg	Order No. DT PS* Weight per PU approx. kg	Order No. DT PS* Weight per PU approx. kg	Order No. DT PS* Weight per PU approx. kg	Order No. DT PS* Weight per PU approx. kg	Order No. DT PS* Weight per PU approx. kg	Order No. DT PS* Weight per PU approx. kg	Order No. DT PS* Weight per PU approx. kg
2000	1000	600	8GG4 841-0 A 1 unit 2.300	8GG4 841-1 B 1 unit 2.300	–	–	8GG4 841-4 B 1 unit 2.300	8GG4 841-5 A 1 unit 3.000	8GG4 841-6 B 1 unit 3.000	8GG4 841-7 A 1 unit 3.000
2000	1100	600	–	–	8GG4 841-2 B 1 unit 2.300	8GG4 841-3 B 1 unit 2.300	–	–	–	8GG4 840-1 A 1 unit 2.300

SIKUS 3200 Side-by-Side Switchgear Cabinets

Side-by-side switchgear cabinets

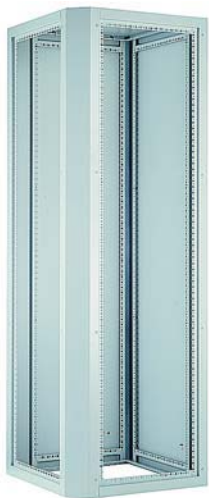
Benefits

- For mounting to side-by-side cabinets
- Conforms to DIN VDE 0660 Part 500, EN 60439-1
- Maximum achievable degree of protection IP55
- Safety class 1 (protective conductor terminal)
- Enclosure fully assembled with rear panel and closed top panel
- Frame of 2 mm sheet steel, enclosure parts 1.5 mm sheet steel, electrolytically zinc-coated, powder-coated
- Color: RAL 7035 light gray, other RAL colors on request

Design

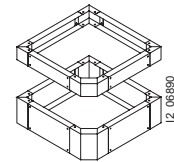
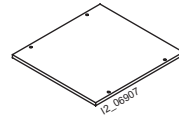
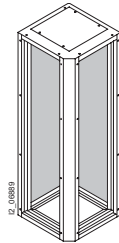
Corner cabinet assembled, consisting of:

- Control cabinet frame
- Top panel
- Rear panel



Selection and ordering data

Dimensions	with rear panel, closed top panel and front door	Base plates closed	Base frame for corner cabinets	
			H=100 mm	H = 200 mm



H	D	Order No.	Weight per PU approx. kg	Order No.	Weight per PU approx. kg	Order No.	Weight per PU approx. kg	Order No.	Weight per PU approx. kg
2000	400	-	-	-	-	-	-	-	-
2000	600	8GG2 411-2	60.500	8GG3 358-1	2.600	8GG3 408-1	6.500	8GG3 418-1	10.000
2000	800	8GG2 421-2	74.000	8GG3 358-2	4.200	8GG3 408-2	8.500	8GG3 418-2	13.000
2200	600	8GG2 611-2	65.000	8GG3 358-1	2.600	8GG3 408-1	6.500	8GG3 418-1	10.000
2200	800	8GG2 621-2	79.500	8GG3 358-2	4.200	8GG3 408-2	8.500	8GG3 418-2	13.000

See also under supplementary components (Page 7/34), busbar system (Page 7/59) and general accessories (Page 7/64).

SIKUS 3200 Side-by-Side Switchgear Cabinets

Side-by-side switchgear cabinets

Benefits

- For individual and side-by-side installation
- Conforms to DIN VDE 0660, Part 500, EN 60439-1
- Achievable degree of protection IP55
- Safety class 1 (protective conductor terminal)
- Enclosure fully assembled, consisting of:
 - Control cabinet frame
 - Rear wall sheet-steel door closed, top panel
 - Color: RAL 7035 light gray, other RAL colors on request
- Fixing grid 25 mm vertical and horizontal, to DIN 43660
- Mounting with thread-forming tapping screws
- 400 mm wide sections for lateral cable or busbar compartments

Design

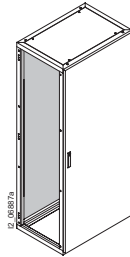
Cabinet assembled, consisting of:

- Control cabinet frame
- Top panel
- Sheet-steel door (double door with width of 1000 mm or more)



Selection and ordering data

Dimensions Basic unit with rear panel, closed top panel and front door



H	W	D	Order No.	Weight
				per PU approx.
mm	mm	mm		kg
2000	400	400	8GG1 401-1	54.600
	600		8GG1 402-1	64.200
	800		8GG1 403-1	72.900
	850		8GG1 404-1	82.600
	1000		8GG1 405-1	85.700
2000	1100		8GG1 406-1	106.000
	1200		8GG1 407-1	98.500
	400	600	8GG1 411-1	57.800
2000	600		8GG1 412-1	71.700
	800		8GG1 413-1	85.700
	850		8GG1 414-1	87.900
	1000		8GG1 415-1	100.000
	1100		8GG1 416-1	111.000
	1200		8GG1 417-1	115.000
	400	800	8GG1 421-1	61.000
2000	600		8GG1 422-1	75.600
	800		8GG1 423-1	89.500
	1000		8GG1 425-1	104.000
	1100		8GG1 426-1	115.000
	1200		8GG1 427-1	119.000
2200	400	600	8GG1 611-1	62.200
	600		8GG1 612-1	77.200
	800		8GG1 613-1	92.400
	1000		8GG1 615-1	107.000
	1100		8GG1 616-1	119.000
	1200		8GG1 617-1	123.000
2200	400	800	8GG1 621-1	65.400
	600		8GG1 622-1	80.600
	800		8GG1 623-1	96.400
	1000		8GG1 625-1	112.000
	1100		8GG1 626-1	124.000
	1200		8GG1 627-1	127.000

See also under supplementary components (Page 7/34), busbar system (Page 7/59) and general accessories (Page 7/64).

SIKUS 3200 Side-by-Side Switchgear Cabinets

Side-by-side switchgear cabinets

Benefits

- As modular cabinet for side-by-side installation
- Conforms to DIN VDE 0660, Part 500, EN 60439-1
- Degree of protection achievable up to IP55
- Safety class 1 (protective conductor terminal)
- Control cabinet frame of sheet-steel section 2 mm, electrolytically zinc-coated, powder-coated
- Color: RAL 7035 light gray, other RAL colors on request
- Fixing grid 25 mm vertical and horizontal, to DIN 43660
- Mounting with thread-forming tapping screws
- 400 mm wide sections for lateral cable or busbar compartments

Design

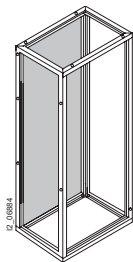
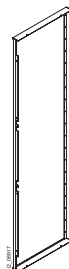
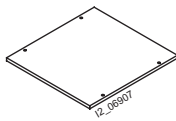
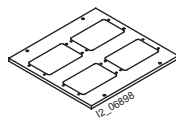
Cabinet assembled, consisting of:

- Control cabinet frame
- Rear panel



Selection and ordering data

Supplementary components

Dimensions	Control cabinet frame with rear panel	Mounting frame (already included with type-tested switchgear and controlgear assemblies)	Top panels, closed	Top panels with flange cutouts
				

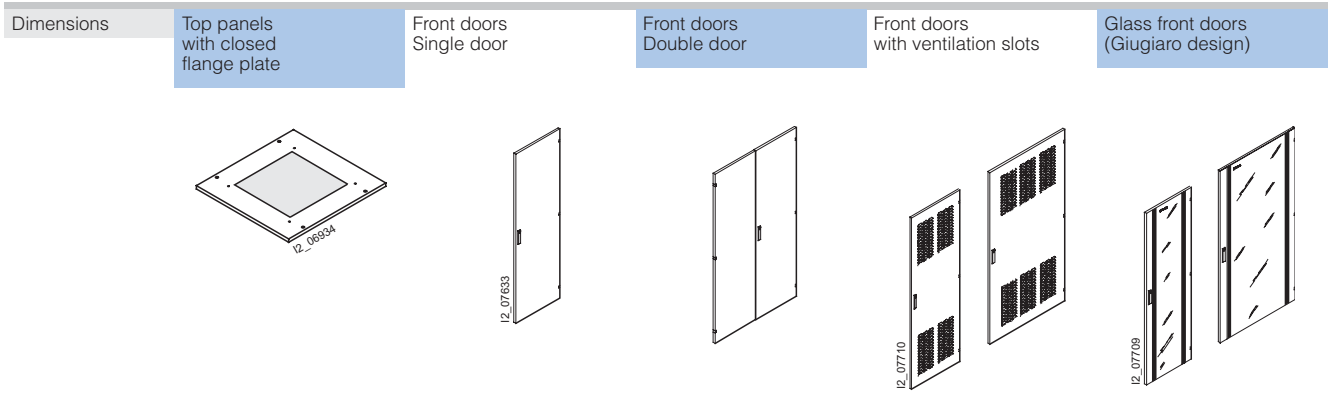
H	W	D	Order No.	Weight per PU approx.	Order No.	Weight per PU approx.	Order No.	Weight per PU approx.	Order No.	Weight per PU approx.
mm	mm	mm		kg		kg		kg		kg
2000	400	400	8GG2 401-1	37.000	8GG4 882-7	4.800	8GG3 301-0	1.600	8GG3 321-0	1.400
		600	8GG2 402-1	43.500	8GG4 882-8	5.100	8GG3 302-0	2.400	8GG3 322-0	2.100
		800	8GG2 403-1	50.000	8GG4 883-0	5.400	8GG3 303-0	3.200	8GG3 323-0	2.800
		850	8GG2 404-1	52.000	–		8GG3 304-0	3.400	8GG3 324-0	3.000
		1000	8GG2 405-1	56.500	8GG4 883-1	5.600	8GG3 305-0	4.000	8GG3 325-0	3.600
		1100	8GG2 406-1	60.000	–		8GG3 306-0	4.800	8GG3 326-0	4.300
2000	400	600	8GG2 407-1	63.000	–		8GG3 307-0	4.400	8GG3 327-0	4.000
		600	8GG2 411-1	39.000	8GG4 882-7	4.800	8GG3 301-1	2.800	8GG3 321-1	2.500
		800	8GG2 412-1	45.500	8GG4 882-8	5.100	8GG3 302-1	3.800	8GG3 322-1	3.400
		800	8GG2 413-1	52.000	8GG4 883-0	5.400	8GG3 303-1	5.000	8GG3 323-1	4.500
		850	8GG2 414-1	54.000	–		8GG3 304-1	3.600	8GG3 324-1	3.200
		1000	8GG2 415-1	59.000	8GG4 883-1	5.600	8GG3 305-1	6.300	8GG3 325-1	5.600
2000	400	1100	8GG2 416-1	62.000	–		8GG3 306-1	7.300	8GG3 326-1	6.500
		1200	8GG2 417-1	66.000	–		8GG3 307-1	6.900	8GG3 327-1	6.000
		600	8GG2 421-1	41.000	8GG4 882-7	4.800	8GG3 301-2	4.000	8GG3 321-2	3.600
		600	8GG2 422-1	48.000	8GG4 882-8	5.100	8GG3 302-2	5.200	8GG3 322-2	4.600
		800	8GG2 423-1	54.000	8GG4 883-0	5.400	8GG3 303-2	6.800	8GG3 323-2	6.100
		1000	8GG2 424-1	61.000	8GG4 883-1	5.600	8GG3 305-2	8.600	8GG3 325-2	7.700
2000	400	1100	8GG2 425-1	61.000	–		8GG3 306-2	9.800	8GG3 326-2	8.800
		1200	8GG2 426-1	64.000	–		8GG3 307-2	9.300	8GG3 327-2	7.900
		600	8GG2 427-1	68.000	–					
		600	8GG2 611-1	42.000	8GG4 883-2	5.250	8GG3 301-1	2.800	8GG3 321-1	2.500
		800	8GG2 612-1	49.000	8GG4 883-3	5.500	8GG3 302-1	3.800	8GG3 322-1	3.400
		800	8GG2 613-1	56.000	8GG4 883-4	5.800	8GG3 303-1	5.000	8GG3 323-1	4.500
2200	400	1000	8GG2 614-1	63.000	8GG4 883-5	6.000	8GG3 305-1	6.300	8GG3 325-1	5.600
		1100	8GG2 615-1	63.000	–		8GG3 306-1	7.300	8GG3 326-1	6.500
		1200	8GG2 616-1	66.500	–		8GG3 307-1	6.900	8GG3 327-1	6.000
		600	8GG2 617-1	70.000	–					
		600	8GG2 621-1	44.000	8GG4 883-2	5.250	8GG3 301-2	4.000	8GG3 321-2	3.600
		600	8GG2 622-1	51.000	8GG4 883-3	5.500	8GG3 302-2	5.200	8GG3 322-2	4.600
2200	400	800	8GG2 623-1	58.000	8GG4 883-4	5.800	8GG3 303-2	6.800	8GG3 323-2	6.100
		1000	8GG2 624-1	65.000	8GG4 883-5	6.000	8GG3 305-2	8.600	8GG3 325-2	7.700
		1100	8GG2 625-1	65.000	–		8GG3 306-2	9.800	8GG3 326-2	8.800
		1200	8GG2 626-1	68.500	–		8GG3 307-2	9.300	8GG3 327-2	7.900
		600	8GG2 627-1	72.000	–					

Note: cabinet depths of 1000 mm on request.

See also under busbar system (Page 7/59) and general accessories (Page 7/64).

SIKUS 3200 Side-by-Side Switchgear Cabinets

Side-by-side switchgear cabinets



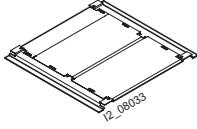


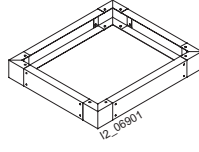
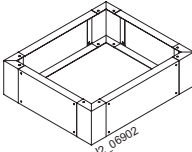
H	W	D	Top panels with closed flange plate		Front doors Single door		Front doors Double door		Front doors with ventilation slots		Glass front doors (Giugiaro design)	
			Order No.	Weight per PU approx. kg	Order No.	Weight per PU approx. kg	Order No.	Weight per PU approx. kg	Order No.	Weight per PU approx. kg	Order No.	Weight per PU approx. kg
2000	400	400	–	–	8GG3 004-1	16.000	–	–	–	–	–	–
			8GG3 342-0	2.400	8GG3 004-2	22.400	–	8GG3 034-2	22.400	8GG3 044-2	25.500	
			8GG3 343-0	3.200	8GG3 004-3	28.700	–	8GG3 034-3	28.700	8GG3 044-3	30.200	
			–	–	8GG3 004-4	30.300	–	8GG3 034-4	30.300	8GG3 044-4	31.300	
			–	–	8GG3 004-5	35.100	8GG3 004-8	36.000	–	8GG3 044-5	34.800	
			–	–	–	–	8GG3 004-6	42.100	–	–	–	
			–	–	–	–	8GG3 004-7	48.000	–	–	–	
2000	400	600	–	–	8GG3 004-1	16.000	–	–	–	–	–	–
			8GG3 342-1	3.800	8GG3 004-2	22.400	–	8GG3 034-2	22.400	8GG3 044-2	25.500	
			8GG3 343-1	5.000	8GG3 004-3	28.700	–	8GG3 034-3	28.700	8GG3 044-3	30.200	
			–	–	8GG3 004-4	30.300	–	8GG3 034-4	30.300	8GG3 044-4	31.300	
			–	–	8GG3 004-5	35.100	8GG3 004-8	36.000	–	8GG3 044-5	34.800	
			–	–	–	–	8GG3 004-6	42.100	–	–	–	
			–	–	–	–	8GG3 004-7	48.000	–	–	–	
2000	400	800	–	–	8GG3 004-1	16.000	–	–	–	–	–	–
			8GG3 342-2	5.200	8GG3 004-2	22.400	–	8GG3 034-2	22.400	8GG3 044-2	25.500	
			8GG3 343-2	6.800	8GG3 004-3	28.700	–	8GG3 034-3	28.700	8GG3 044-3	30.200	
			–	–	8GG3 004-5	35.100	8GG3 004-8	36.000	–	8GG3 044-5	34.800	
			–	–	–	–	8GG3 004-6	42.100	–	–	–	
			–	–	–	–	8GG3 004-7	48.000	–	–	–	
			–	–	–	–	–	–	–	–	–	
2200	400	600	–	–	8GG3 006-1	17.400	–	–	–	–	–	–
			8GG3 342-1	3.800	8GG3 006-2	24.400	–	–	–	8GG3 046-2	27.500	
			8GG3 343-1	5.000	8GG3 006-3	31.400	–	8GG3 036-3	31.400	8GG3 046-3	32.600	
			–	–	8GG3 006-5	38.400	8GG3 006-8	38.500	8GG3 036-5	38.400	8GG3 046-5	37.600
			–	–	–	–	8GG3 006-6	45.900	–	–	–	
			–	–	–	–	8GG3 006-7	53.000	–	–	–	
			–	–	–	–	–	–	–	–	–	
2200	400	800	–	–	8GG3 006-1	17.400	–	–	–	–	–	–
			8GG3 342-2	5.200	8GG3 006-2	24.400	–	–	–	8GG3 046-2	27.500	
			8GG3 343-2	6.800	8GG3 006-3	31.400	–	8GG3 036-3	31.400	8GG3 046-3	32.600	
			–	–	8GG3 006-5	38.400	8GG3 006-8	38.500	8GG3 036-5	38.400	8GG3 046-5	37.600
			–	–	–	–	8GG3 006-6	45.900	–	–	–	
			–	–	–	–	8GG3 006-7	53.000	–	–	–	
			–	–	–	–	–	–	–	–	–	

See also under general accessories (Page 7/64).

SIKUS 3200 Side-by-Side Switchgear Cabinets

Side-by-side switchgear cabinets

Selection and ordering data

Dimensions	Base plates, multi-part	Side panels (1 set = 2 units) closed IP55	Side panels (1 set = 2 units) with ventilation slots IP30	Base frame H = 100 mm	Base frame H = 200 mm
					

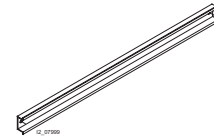
H	W	D	Order No.	Weight per PU approx.	Order No.	Weight per PU approx.	Order No.	Weight per PU approx.	Order No.	Weight per PU approx.	Order No.	Weight per PU approx.
mm	mm	mm		kg		kg		kg		kg		kg
2000	400	400	8GG3 361-0	2.400	8GG3 204-0	15.000	–		8GG3 401-0	4.500	8GG3 411-0	7.000
		600	8GG3 362-0	2.900	8GG3 204-0	15.000	–		8GG3 402-0	5.500	8GG3 412-0	8.500
		800	8GG3 363-0	3.500	8GG3 204-0	15.000	–		8GG3 403-0	6.500	8GG3 413-0	10.000
		850	8GG3 364-0	3.500	8GG3 204-0	15.000	–		8GG3 404-0	7.000	8GG3 414-0	10.500
		1000	8GG3 365-0	4.300	8GG3 204-0	15.000	–		8GG3 405-0	7.000	8GG3 415-0	11.500
		1100	8GG3 366-0	4.800	8GG3 204-0	15.000	–		8GG3 406-0	7.500	8GG3 416-0	12.500
		1200	8GG3 367-0	5.100	8GG3 204-0	15.000	–		8GG3 407-0	7.500	8GG3 417-0	13.000
2000	400	600	8GG3 361-1	3.800	8GG3 204-1	24.200	8GG3 214-1	24.200	8GG3 401-1	5.500	8GG3 411-1	8.500
		800	8GG3 362-1	4.500	8GG3 204-1	24.200	8GG3 214-1	24.200	8GG3 402-1	6.500	8GG3 412-1	10.000
		850	8GG3 363-1	5.600	8GG3 204-1	24.200	8GG3 214-1	24.200	8GG3 403-1	7.500	8GG3 413-1	11.500
		1000	8GG3 364-1	6.700	8GG3 204-1	24.200	8GG3 214-1	24.200	8GG3 404-1	8.000	8GG3 414-1	12.000
		1100	8GG3 365-1	6.900	8GG3 204-1	24.200	8GG3 214-1	24.200	8GG3 405-1	8.000	8GG3 415-1	13.000
		1200	8GG3 366-1	7.700	8GG3 204-1	24.200	8GG3 214-1	24.200	8GG3 406-1	8.500	8GG3 416-1	14.000
		1200	8GG3 367-1	8.200	8GG3 204-1	24.200	8GG3 214-1	24.200	8GG3 407-1	8.500	8GG3 417-1	14.500
2000	400	800	8GG3 361-2	5.200	8GG3 204-2	33.300	8GG3 214-2	33.300	8GG3 401-2	6.500	8GG3 411-2	10.000
		1000	8GG3 362-2	6.100	8GG3 204-2	33.300	8GG3 214-2	33.300	8GG3 402-2	7.500	8GG3 412-2	11.500
		1100	8GG3 363-2	7.700	8GG3 204-2	33.300	8GG3 214-2	33.300	8GG3 403-2	8.500	8GG3 413-2	13.000
		1200	8GG3 364-2	9.500	8GG3 204-2	33.300	8GG3 214-2	33.300	8GG3 404-2	9.000	8GG3 414-2	14.500
		1200	8GG3 365-2	10.600	8GG3 204-2	33.300	8GG3 214-2	33.300	8GG3 405-2	9.500	8GG3 415-2	15.500
		1200	8GG3 366-2	11.300	8GG3 204-2	33.300	8GG3 214-2	33.300	8GG3 406-2	9.500	8GG3 416-2	16.000
		1200	8GG3 367-2	11.300	8GG3 204-2	33.300	8GG3 214-2	33.300	8GG3 407-2	9.500	8GG3 417-2	16.000
2200	400	600	8GG3 361-1	3.800	8GG3 206-1	26.600	8GG3 216-1	26.600	8GG3 401-1	5.500	8GG3 411-1	8.500
		800	8GG3 362-1	4.500	8GG3 206-1	26.600	8GG3 216-1	26.600	8GG3 402-1	6.500	8GG3 412-1	10.000
		1000	8GG3 363-1	5.600	8GG3 206-1	26.600	8GG3 216-1	26.600	8GG3 403-1	7.500	8GG3 413-1	11.500
		1100	8GG3 364-1	6.900	8GG3 206-1	26.600	8GG3 216-1	26.600	8GG3 404-1	8.000	8GG3 414-1	13.000
		1200	8GG3 365-1	7.700	8GG3 206-1	26.600	8GG3 216-1	26.600	8GG3 405-1	8.500	8GG3 415-1	13.000
		1200	8GG3 366-1	8.200	8GG3 206-1	26.600	8GG3 216-1	26.600	8GG3 406-1	8.500	8GG3 416-1	14.000
		1200	8GG3 367-1	8.200	8GG3 206-1	26.600	8GG3 216-1	26.600	8GG3 407-1	8.500	8GG3 417-1	14.500
2200	400	800	8GG3 361-2	5.200	8GG3 206-2	36.700	8GG3 216-2	36.700	8GG3 401-2	6.500	8GG3 411-2	10.000
		1000	8GG3 362-2	6.100	8GG3 206-2	36.700	8GG3 216-2	36.700	8GG3 402-2	7.500	8GG3 412-2	11.500
		1100	8GG3 363-2	7.700	8GG3 206-2	36.700	8GG3 216-2	36.700	8GG3 403-2	8.500	8GG3 413-2	13.000
		1200	8GG3 364-2	9.500	8GG3 206-2	36.700	8GG3 216-2	36.700	8GG3 404-2	9.000	8GG3 414-2	14.500
		1200	8GG3 365-2	10.600	8GG3 206-2	36.700	8GG3 216-2	36.700	8GG3 405-2	9.500	8GG3 415-2	15.500
		1200	8GG3 366-2	11.300	8GG3 206-2	36.700	8GG3 216-2	36.700	8GG3 406-2	9.500	8GG3 416-2	16.000
		1200	8GG3 367-2	11.300	8GG3 206-2	36.700	8GG3 216-2	36.700	8GG3 407-2	9.500	8GG3 417-2	16.000

See also under general accessories (Page 7/64).

SIKUS 3200 Side-by-Side Switchgear Cabinets

Side-by-side switchgear cabinets

Dimensions			Partitions	Separators	Dimensions			Cable propping bar
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H	W	D	Order No.	Weight per PU approx.	Order No.	Weight per PU approx.
mm	mm	mm		kg		kg
2000	400	400	8GG3 502-1	7.400	8GG3 520-2	4.300
	600		8GG3 502-1	7.400	8GG3 520-2	4.300
	800		8GG3 502-1	7.400	8GG3 520-2	4.300
	850		8GG3 502-1	7.400	8GG3 520-2	4.300
	1000		8GG3 502-1	7.400	8GG3 520-2	4.300
	1100		8GG3 502-1	7.400	8GG3 520-2	4.300
	1200		8GG3 502-1	7.400	8GG3 520-2	4.300
2000	400	600	8GG3 502-2	12.100	8GG3 520-2	4.300
	600		8GG3 502-2	12.100	8GG3 520-2	4.300
	800		8GG3 502-2	12.100	8GG3 520-2	4.300
	850		8GG3 502-2	12.100	8GG3 520-2	4.300
	1000		8GG3 502-2	12.100	8GG3 520-2	4.300
	1100		8GG3 502-2	12.100	8GG3 520-2	4.300
	1200		8GG3 502-2	12.100	8GG3 520-2	4.300
2000	400	800	8GG3 502-3	16.800	8GG3 520-2	4.300
	600		8GG3 502-3	16.800	8GG3 520-2	4.300
	800		8GG3 502-3	16.800	8GG3 520-2	4.300
	1000		8GG3 502-3	16.800	8GG3 520-2	4.300
	1100		8GG3 502-3	16.800	8GG3 520-2	4.300
	1200		8GG3 502-3	16.800	8GG3 520-2	4.300
2200	400	600	8GG3 503-2	13.300	8GG3 520-3	4.800
	600		8GG3 503-2	13.300	8GG3 520-3	4.800
	800		8GG3 503-2	13.300	8GG3 520-3	4.800
	1000		8GG3 503-2	13.300	8GG3 520-3	4.800
	1100		8GG3 503-2	13.300	8GG3 520-3	4.800
	1200		8GG3 503-2	13.300	8GG3 520-3	4.800
2200	400	800	8GG3 503-3	18.500	8GG3 520-3	4.800
	600		8GG3 503-3	18.500	8GG3 520-3	4.800
	800		8GG3 503-3	18.500	8GG3 520-3	4.800
	1000		8GG3 503-3	18.500	8GG3 520-3	4.800
	1100		8GG3 503-3	18.500	8GG3 520-3	4.800
	1200		8GG3 503-3	18.500	8GG3 520-3	4.800

W	D	Order No.	Weight per PU approx.	Order No.	Weight per PU approx.
mm	mm		kg		kg
400		8GG3 884-0	0.500	–	
600		8GG3 884-1	0.800	–	
800		8GG3 884-2	1.100	–	
850		8GG3 884-3	1.200	–	
1000		8GG3 884-4	1.400	–	
1100		8GG3 884-5	1.500	–	
	400	–		8GG3 885-0	0.500
	600	–		8GG3 885-1	0.750
	800	–		8GG3 885-2	1.100

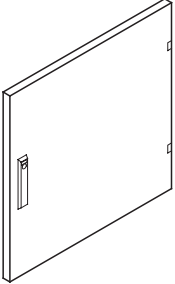
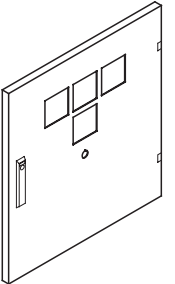
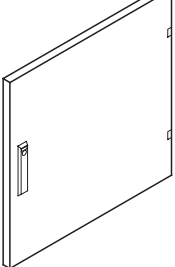
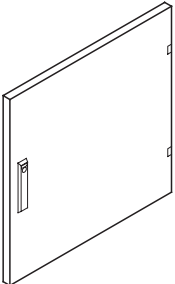
Note: cross-arms required
For required cross-arms see Page 7/56.

See also under general accessories (Page 7/64).

SIKUS 3200 Side-by-Side Switchgear Cabinets

Side-by-side switchgear cabinets

Selection and ordering data

		Dimensions		DT	Order No.	PS*	Weight per PU approx. kg
		H	W				
		mm	mm				
Module doors							
 12_08032	Top closed						
	Hinged right/left	250	600	B	8GG3 101-0	1 unit	4.000
			800	B	8GG3 101-3	1 unit	4.800
		450	600	B	8GG3 101-1	1 unit	6.000
			800	B	8GG3 101-4	1 unit	6.800
		650	600	A	8GG3 101-2	1 unit	8.000
			800	A	8GG3 101-5	1 unit	8.800
 12_08035	Top with cutout for 4 measuring instruments and voltmeter changeover switch						
	Hinged right	650	600	A	8GG3 110-3	1 unit	7.300
			800	B	8GG3 112-1	1 unit	10.900
	Hinged left	650	600	B	8GG3 110-2	1 unit	7.300
			800	B	8GG3 112-2	1 unit	10.900
 12_08036	Top with cutout for digital measuring instrument 138 mm x 138 mm, up to IP55						
	Hinged right/left	650	600	B	8GG3 111-8	1 unit	7.300
			800	B	8GG3 112-0	1 unit	10.900
 12_08032	Center closed						
	Hinged right/left	200	600	A	8GG3 100-0	1 unit	5.000
			800	B	8GG3 100-4	1 unit	5.900
		400	600	A	8GG3 100-1	1 unit	7.000
			800	B	8GG3 100-5	1 unit	8.400
		600	600	A	8GG3 100-2	1 unit	9.000
			800	A	8GG3 100-6	1 unit	10.900
	800	600	B	8GG3 100-3	1 unit	11.000	
			800	B	8GG3 100-7	1 unit	13.400

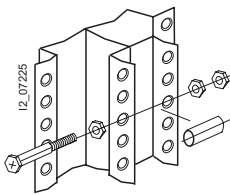
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SIKUS 3200 Side-by-Side Switchgear Cabinets

Side-by-side switchgear cabinets

	Dimensions		DT	Order No.	PS*	Weight
	H	B				per PU approx.
	mm	mm				kg
Bottom closed						
Hinged right/left	325	600	B	8GG3 102-0	1 unit	6.000
		800	B	8GG3 102-3	1 unit	7.300
	525	600	B	8GG3 102-1	1 unit	8.000
		800	B	8GG3 102-4	1 unit	9.800
	725	600	A	8GG3 102-2	1 unit	10.000
		800	A	8GG3 102-5	1 unit	12.300
	925	600	B	8GG3 102-6	1 unit	12.000
		800	B	8GG3 102-7	1 unit	14.000
Bottom with ventilation slots, IP30						
Hinged right/left	525	600	B	8GG3 120-0	1 unit	9.000
		800	B	8GG3 120-1	1 unit	12.000
	725	600	B	8GG3 120-2	1 unit	11.000
		800	B	8GG3 120-3	1 unit	13.000
	925	600	B	8GG3 120-4	1 unit	13.000
		800	B	8GG3 120-5	1 unit	15.000

Connecting set



For side-by-side installation of cabinets and corner cabinets

IP55 screws, washers, nuts, sealing strip

IP41 screws, washers nuts

A

A

8GG3 880-2

8GG3 880-3

1 set 0.400

1 set 0.200

SIKUS 3200 Side-by-Side Switchgear Cabinets

Assembly kits for power distribution

Benefits

- Rated current $I_n = 630$ A up to 3200 A
- Can be installed in fixed-mounted or withdrawable design
- Equipment compartments can be additionally partitioned, form 1 to 3a optional
- Cable connection at top or bottom
- Installation kit with complete mounting accessories



Selection and ordering data

Assembly kits for 3WN6 circuit-breakers

3-pole; $I_n = 630$ A to 3200 A

Operating mechanism behind the door

including section cover and fixing accessories, fixed-mounted/withdrawable

Operating mechanism through the door

without section cover and fixing accessories, fixed-mounted/withdrawable

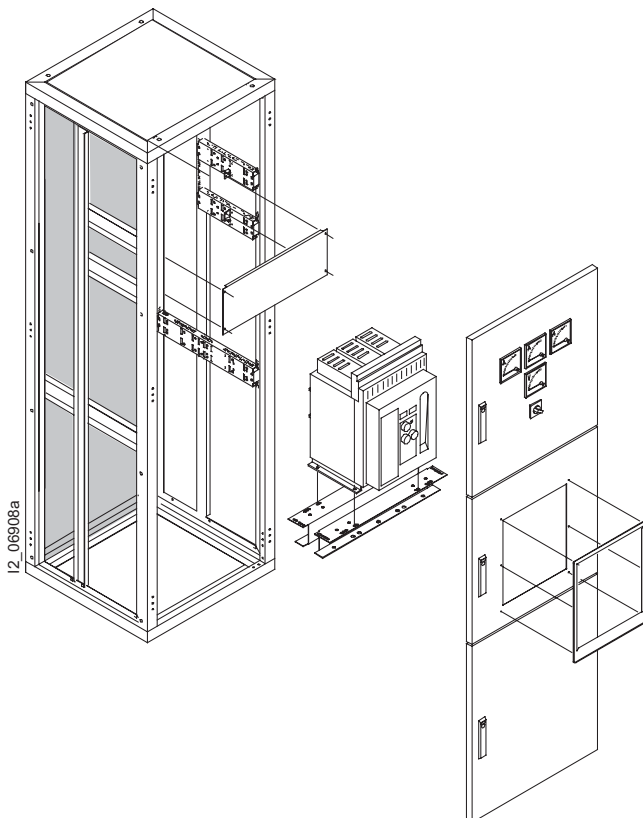
3-pole

4-pole

Design

Installation example:

Operating mechanism through the door



Assembly kits for SENTRON WL circuit-breakers

3-pole; $I_n = 630$ A to 3200 A

Operating mechanism behind the door

Size 1/2, fixed-mounted/withdrawable

Operating mechanism through the door

Size 1/2, fixed-mounted/withdrawable

For cross-arms see Page 7/56.

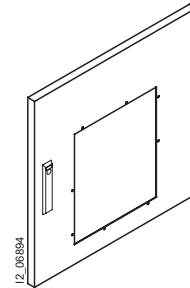
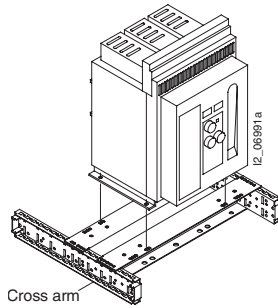
See also under general accessories.

Mounting frames are required whenever assembly kits are installed with section covers and unequipped section covers.

SIKUS 3200 Side-by-Side Switchgear Cabinets

Assembly kits for power distribution

Dimensions	Number of circuit-breakers	Mounting set	Required accessories	Module doors Center with cutout
				Hinged right, for 3WN6 / SENTRON WL Hinged left, for 3WN6 / SENTRON WL



H	W	D		Order No.	Weight per PU approx.	Required accessories	Order No.	Weight per PU approx.	Order No.	Weight per PU approx.
mm	mm	mm			kg			kg		kg
600	600	600	1	8GG4 100-0	9.000	Cross-arms and mounting frames	–	–	–	–
600	600	600	1	8GG4 100-1	4.500	Cross-arms, module doors, 3WX36 86-0JA00 door sealing frames for IP55 required for IP55 3WL9 111-0AP02-0AA0 plexiglas cover	8GG3 110-1	7.500	8GG3 110-0	7.500
600	800	600	1	8GG4 100-4	4.000		8GG3 111-6	10.900	8GG3 111-7	10.900
600	600	600	1	8GG4 123-7	9.000	8GG5 801-0 compartmentalization of busbar compartment	–	–	–	–
600	800	600	1	8GG4 124-0	11.000		–	–	–	–
600	600	600	1	8GG4 123-8	4.500	8GG5 801-1 compartmentalization of busbar compartment, 3WL9 111-0AP01-0AA0 door sealing frame, required for IP55 3WL9 111-0AP02-0AA0 plexiglas cover	8GG3 112-4	7.500	8GG3 112-3	7.500
600	800	600	1	8GG4 124-1	5.000		8GG3 112-6	10.900	8GG3 112-5	10.900

SIKUS 3200 Side-by-Side Switchgear Cabinets

Assembly kits for power distribution

Benefits

- Rated current $I_n = 160 \text{ A}$ to 1600 A
- 3-/4-pole
- Can be installed as fixed-mounted or withdrawable version in grid module 100 mm
- Equipment compartments can be additionally partitioned, form 1 to 3a optional
- Assembly kits for individual and project-related assembly, consisting of: switching device panels, unequipped section cover with supports, screws and fixing accessories
- Dimensions of the assembly kits (mm) according to DIN 43870
Height: 600
Width 250, 500
Cabinet size grid dimensions
H x W: 150×250
- Unequipped section cover can be sealed as standard and can be quickly and securely attached to the supports by quick-release lock system.

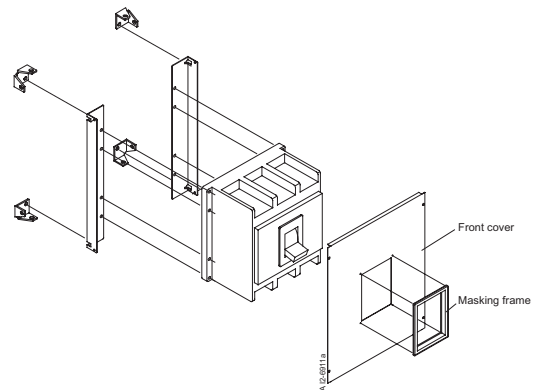
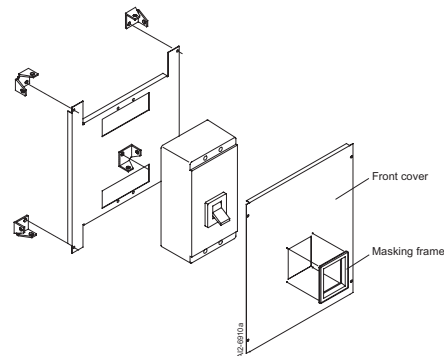
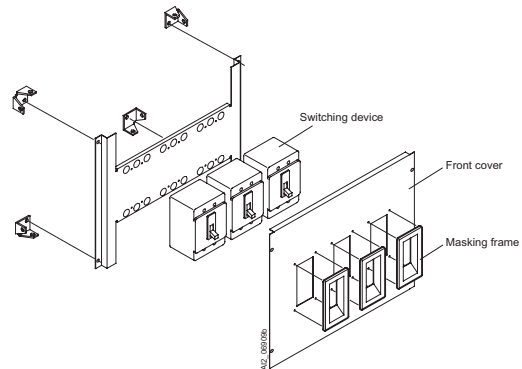
Note:

For installing the assembly kits in the empty cabinets, one adapter set per cabinet and 2 longitudinal stays per assembly kit width are required; these must be ordered in addition.



Design

- Kit consisting of support plate, section cover and fixing accessories
- Cross-arms and mounting frames for the assembly kits must be ordered separately



SIKUS 3200 Side-by-Side Switchgear Cabinets

Assembly kits for power distribution

Selection and ordering data

Type/ rated current	Module height	Cabinet width	Number of circuit-breakers	Connections	Assembly kit		Accessories Blanking frame	
					Order No. DT = A PS = 1 unit	Weight per PU approx. kg	Order No. DT = A PS = 1 unit	Weight per PU approx. kg
	mm	mm						
Vertical mounting								
VL 160X up to 160 A	400	600	3	Fixed-mounted	8GG4 120-0	4.600	8GG4 810-2	0.400
		800	5		8GG4 120-1	6.300	8GG4 810-2	0.400
VL 160/VL 250 up to 250 A	400	600	3	Fixed-mounted	8GG4 120-2	4.600	8GG4 810-2	0.400
		800	5		8GG4 120-3	6.300	8GG4 810-2	0.400
		600	3	Socket	8GG4 120-4	4.600	8GG4 810-2	0.400
		800	5		8GG4 120-5	6.300	8GG4 810-2	0.400
		600	3	Withdrawable	8GG4 120-6	4.800	8GG4 810-3	0.500
		800	5		8GG4 120-7	6.600	8GG4 810-3	0.500
VL 400 up to 400 A	600	600	2	Fixed-mounted	8GG4 120-8	7.300	–	–
		800	3		8GG4 121-0	10.200	–	–
		600	2	Socket	8GG4 121-1	7.300	–	–
		800	3		8GG4 121-2	10.200	–	–
		600	2	Withdrawable	8GG4 121-3	7.800	8GG4 810-4	0.500
		800	3		8GG4 121-4	10.900	8GG4 810-4	0.500
VL 630 up to 630 A	600	600	1	Fixed-mounted	8GG4 121-5	7.300	8GG4 810-5	0.400
		800	2		8GG4 121-6	10.200	8GG4 810-5	0.400
		600	1	Socket	8GG4 121-7	7.300	8GG4 810-5	0.400
		800	2		8GG4 121-8	10.200	8GG4 810-5	0.400
		600	1	Withdrawable	8GG4 122-0	7.300	8GG4 810-6	0.500
		800	2		8GG4 122-1	10.200	8GG4 810-6	0.500
VL 800 up to 800 A	600	600	1	Fixed-mounted	8GG4 122-2	7.300	8GG4 810-5	0.400
		800	2		8GG4 122-3	10.200	8GG4 810-5	0.400
VL 1250/VL 1600 up to 1600 A	600	600	1	Fixed-mounted	8GG4 122-4	7.300	8GG4 810-5	0.400
		800	2		8GG4 122-5	10.200	8GG4 810-5	0.400
Horizontal mounting								
VL 160X up to 160 A	200	600	1	Fixed-mounted Socket	8GG4 122-6	2.300	8GG4 810-2	0.400
					8GG4 122-8		8GG4 810-2	0.400
VL 160/VL 250 up to 250 A	200	600	1	Fixed-mounted Socket	8GG4 122-7	2.300	8GG4 810-2	0.400
					8GG4 122-8	2.300	8GG4 810-2	0.400
				Withdrawable	8GG4 123-0	2.300	8GG4 810-3	0.500
VL 400 up to 400 A	200	600	1	Fixed-mounted Socket	8GG4 123-1	2.300	–	–
					8GG4 123-2	2.300	–	–
				Withdrawable	8GG4 123-3	2.300	8GG4 810-4	0.500
VL 630	200	600	1	Fixed-mounted Socket	8GG4 123-4	4.600	8GG4 810-5	0.400
					8GG4 123-5	4.600	8GG4 810-5	0.400
				Withdrawable	8GG4 123-6	4.600	8GG4 810-6	0.500
Vertical mounting to DIN 43870 (8GK system)								
VL 800 up to 800 A	600	250	1	Fixed-mounted	8GK4 704-4KK15	3.000	–	–
		500	1	Fixed-mounted	8GK4 704-4KK25	6.000	–	–
VL 1250/VL 1600 up to 1600 A	600	500	1	Fixed-mounted	8GK4 705-4KK25	6.000	–	–

For cross-arms see Page 7/56.

Mounting frames are required whenever assembly kits are installed with front covers and unequipped section covers.

Assembly kits for SENTRON VL molded-case circuit-breakers up to 630 A rated current, see Page 7/80.

SIKUS 3200 Side-by-Side Switchgear Cabinets

Assembly kits for power distribution

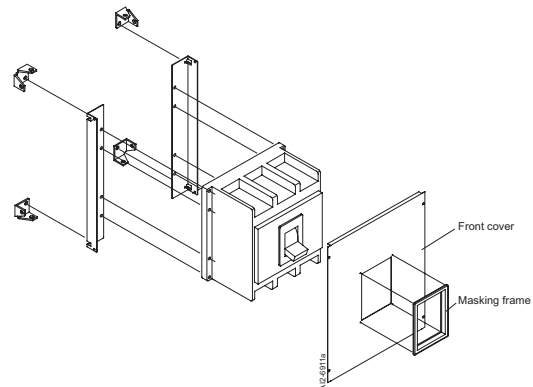
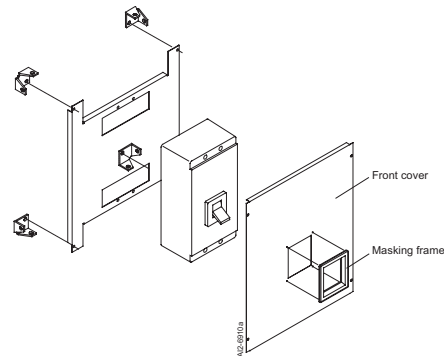
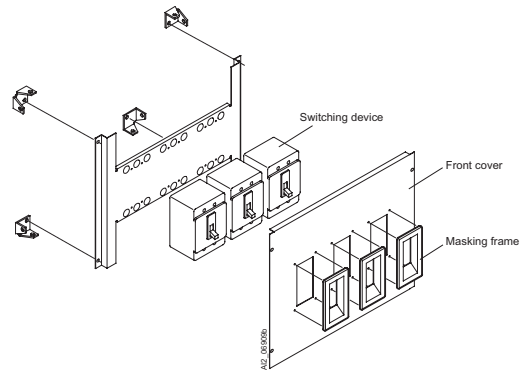
Benefits

- Rated current $I_n = 160 \text{ A}$ to 1600 A
- 3-/4-pole
- Can be installed as fixed-mounted or withdrawable version in grid module 100 mm
- Equipment compartments can be additionally partitioned, form 1 to 3a optional



Design

- Kit consisting of support plate, section cover and fixing accessories
- Cross-arms and mounting frames for the assembly kits must be ordered separately



SIKUS 3200 Side-by-Side Switchgear Cabinets

Assembly kits for power distribution

Selection and ordering data

Type/ Rated current	Module height	Cabinet width	Number of circuit-breakers	Connections	Assembly kit		Accessories	
					Order No.	Weight per PU approx. kg	Order No.	Weight per PU approx. kg
Vertical mounting								
3VF2 up to 100 A	400	600	5	Fixed-mounted	8GG4 113-1	4.800	–	
		800	8		8GG4 113-2	6.000	–	
3VF3 up to 160 A	400	600	3	Fixed-mounted	8GG4 110-2	0.460	8GG4 810-0	0.100
		800	5		8GG4 110-3	6.200	8GG4 810-0	0.100
		600	3	Socket	8GG4 110-4	4.600	8GG4 810-0	0.100
		800	5		8GG4 110-5	6.300	8GG4 810-0	0.100
3VF4 up to 250 A	600	600	3	Fixed-mounted	8GG4 110-6	7.300	8GG4 810-0	0.100
		800	5		8GG4 110-7	10.200	8GG4 810-0	0.100
		600	3	Socket	8GG4 110-8	7.300	8GG4 810-0	0.100
		800	5		8GG4 111-0	10.100	8GG4 810-0	0.100
3VF5 up to 400 A	600	600	2	Fixed-mounted	8GG4 111-1	7.300	8GG4 810-1	0.100
		800	3		8GG4 111-2	10.200	8GG4 810-1	0.100
		600	2	Socket	8GG4 111-3	7.300	8GG4 810-1	0.100
		800	3		8GG4 111-4	10.100	8GG4 810-1	0.100
		600	2	Withdrawable	8GG4 111-5	7.300	8GG4 810-1	0.100
		800	3		8GG4 111-6	10.200	8GG4 810-1	0.100
3VF6 up to 800 A	600	600	1	Fixed-mounted	8GG4 111-7	7.300	8GG4 810-1	0.100
		800	2		8GG4 111-8	10.200	8GG4 810-1	0.100
		600	1	Socket	8GG4 112-0	7.300	8GG4 810-1	0.100
		800	2		8GG4 112-1	10.100	8GG4 810-1	0.100
		600	1	Withdrawable	8GG4 112-2	7.300	8GG4 810-1	0.100
		800	2		8GG4 112-3	10.200	8GG4 810-1	0.100
3VF7 up to 1250 A	600	600	1	Fixed-mounted	8GG4 112-4	7.500	8GG4 810-1	0.100
		800	2		8GG4 112-5	10.300	8GG4 810-1	0.100
		600	1	Withdrawable	8GG4 112-6	7.300	8GG4 810-1	0.100
		800	2		8GG4 112-7	10.200	8GG4 810-1	0.100
3VF8 up to 2000 A	600	600	1	Fixed-mounted	8GG4 112-8	7.000	–	
		800	2		8GG4 113-0	12.100	–	
Horizontal mounting								
3VF3 up to 160 A	200	600	1	Fixed-mounted	8GG4 113-3	2.300	8GG4 810-0	0.100
				Socket	8GG4 113-4	2.300	8GG4 810-0	0.100
3VF4 up to 250 A	200	600	1	Fixed-mounted	8GG4 113-5	2.300	8GG4 810-0	0.100
				Socket	8GG4 113-6	2.300	8GG4 810-0	0.100
3VF5 up to 400 A	200	600	1	Socket	8GG4 113-7	2.300	8GG4 810-1	0.100
				Fixed-mounted	8GG4 113-8	2.300	8GG4 810-1	0.100
3VF6 up to 800 A	400	600	1	Fixed-mounted	8GG4 114-0	4.600	8GG4 810-1	0.100
				Socket	8GG4 114-1	4.600	8GG4 810-1	0.100
				Withdrawable	8GG4 114-2	4.600	8GG4 810-1	0.100

For cross-arms see Page 7/56.

SIKUS 3200 Side-by-Side Switchgear Cabinets

Assembly kits for power distribution

Benefits

- Rated current $I_n = 160 \text{ A}$ to 630 A
- For cabinet widths
1000 mm/ 1100 mm,
cabinet height
2000 mm/ 2200 mm



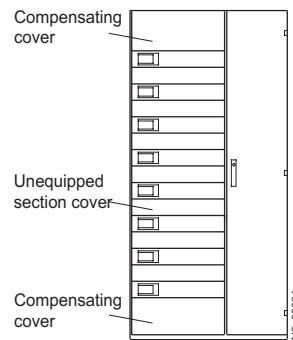
Design

As complete assembly kit

- Cabinet-height, including partition
- Busbar covers for cable compartment, compartmentalization
- Fixing accessories and door for cable compartment or with door for cable compartment and equipment compartment door

Installation example

- 3NJ6 assembly kit shown with cabinet and base



SIKUS 3200 Side-by-Side Switchgear Cabinets

Assembly kits for power distribution

Selection and ordering data

Type/ rated current/ fuse size	Module height	Cabinet width	Cabinet depth from	DT	Order No.	PS*	Weight per PU approx.
	mm	mm	mm				kg
Horizontal mounting							
IP30 achievable							
3NJ61, mounting without door 160 A to 630 A size NH00-3	Equippable height 1500 mm						
	2000	1000	600	B	8GG4 410-0	1 set	38.000
			800	B	8GG4 410-1	1 set	38.000
	Equippable height 1700 mm						
	2200	1000	600	B	8GG4 410-2	1 set	42.000
			800	B	8GG4 410-3	1 set	42.000
IP55 achievable							
3NJ61, mounting behind the door 160 A to 630 A size NH00-3	Equippable height 1500 mm						
	2000	1100	600	B	8GG4 410-4	1 set	59.000
			800	B	8GG4 410-5	1 set	59.000
	Equippable height 1700 mm						
	2200	1100	600	B	8GG4 410-6	1 set	63.000
			800	B	8GG4 410-7	1 set	63.000

Note: also available as partially equipped modular cabinet, type-tested.

SIKUS 3200 Side-by-Side Switchgear Cabinets

Assembly kits for power distribution

Accessories

Type	Rated current A	DT	Order No.	PS*	Weight per PU approx. kg
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Busbar holder (required)

Type-tested busbar holder for multi-terminal busbar, busbar center-to-center distance 185 mm, for the following cross-sections (mm²)

1 × 40 × 10	715	A	8GG5 200-0	1 set	3.800
1 × 60 × 10	985	A	8GG5 200-1	1 set	3.900
1 × 80 × 10	1240	A	8GG5 200-2	1 set	4.000
1 × 100 × 10	1490	A	8GG5 200-3	1 set	4.100

Type	Kit height mm	Kit for cabinet width mm	DT	Order No.	PS*	Weight per PU approx. kg
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Unequipped section cover

for unoccupied slots

100	600	A	8GG4 840-0	1 unit	1.300
200		A	8GG4 840-1	1 unit	2.300
400		B	8GG4 840-2	1 unit	4.300

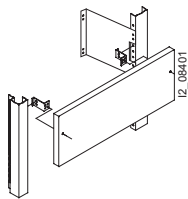
Blanking covers

with ventilation slots made of molded plastic¹⁾

50		A	3NJ6 916-4AA00	1 unit	0.306
100		A	3NJ6 916-4DA00	1 unit	0.497

Compensating cover

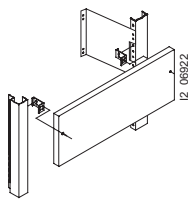
Always required; for covering spare sections above and below the 3NJ61 plug-in in-line switch disconnectors



at the top/bottom	1000	A	8GG4 841-0	1 unit	2.300
at the top with ventilation slots ¹⁾		B	8GG4 841-1	1 unit	2.300
at the bottom with ventilation slots ¹⁾					
at the top	1100	B	8GG4 841-2	1 unit	2.300
at the bottom		B	8GG4 841-3	1 unit	2.300

SASIL compensating cover

Made by J. Müller; for covering spare sections above and below the 3NJ61 plug-in in-line switch disconnectors, degree of protection IP30/IP55



at the top	1000	B	8GG4 841-4	1 unit	2.300
at the bottom		A	8GG4 841-5	1 unit	3.000
at the top with ventilation slots ¹⁾		B	8GG4 841-6	1 unit	3.000
at the bottom with ventilation slots ¹⁾		A	8GG4 841-7	1 unit	3.000
at the top/bottom	1100	A	8GG4 840-1	1 unit	2.300

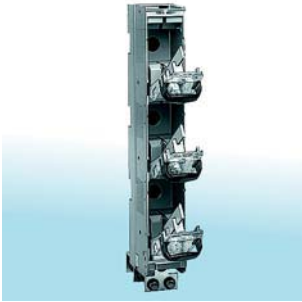
1) Installation is recommended.

SIKUS 3200 Side-by-Side Switchgear Cabinets

Assembly kits for power distribution

Benefits

- Rated current $I_n = 160 \text{ A}$ to 630 A
- For cabinet widths 600 mm, 800 mm, 1000 mm
- Fixed mounting
- Vertical mounting



Assembly kits in accordance with DIN 43870

- Assembly kits for individual and project-related assembly, consisting of: switching device panels, unequipped section cover with supports, screws and fixing accessories
- Dimensions of the assembly kits (mm) according to DIN 43870
Height: 750 mm
Width: 250, 500, 750
Cabinet size grid dimensions
H x W: 150 x 250
- Unequipped section cover can be sealed as standard and can be quickly and securely attached to the supports by quick-release lock system.

Note:

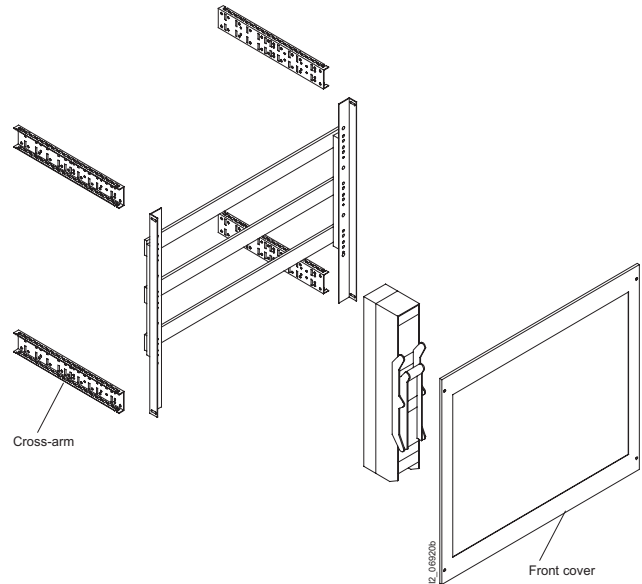
For installing the assembly kits in the empty cabinets, one adapter set per cabinet and 2 longitudinal stays per assembly kit width are required; these must be ordered in addition.

Design

As complete assembly kit

- Including fixing accessories
- Cross-arms for the assembly kits must be ordered separately

Installation example



SIKUS 3200 Side-by-Side Switchgear Cabinets

Assembly kits for power distribution

Selection and ordering data

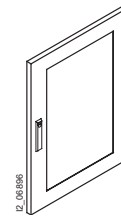
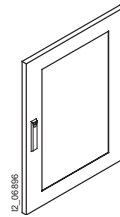
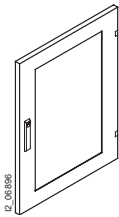
Type/ rated current/ fuse size	Module height	Cabinet width	Number of circuit- breakers	Assembly kit	Order No.	Weight per PU approx. kg
	mm	mm				
3NJ41 in-line fuse switch disconnectors, vertical mounting position						
Busbar center-to-center distance 100 mm						
Operating mechanism behind the door, 160 A, size NH00	600	600 800 1000	8 12 16	8GG4 400-0 8GG4 400-1 8GG4 400-2		3.400 3.800 4.250
Assembly kit complete, including busbar holder, with cutout, support plate and sundries						
Operating mechanism through the door, IP20, size NH00	600	600 800	8 12	8GG4 400-3 8GG4 400-3		3.400 3.400
Busbar center-to-center distance 185 mm						
Operating mechanism behind the door, IP20, size NH1–NH3	600	600 800 1000	4 6 8	8GG4 400-4 8GG4 400-5 8GG4 400-6		4.300 4.900 5.600
size NH00 with adapter	600	600 800 1000	8 12 16	8GG4 400-4 8GG4 400-5 8GG4 400-6		4.300 4.900 5.600
Operating mechanism through the door,						
Without front cover IP20, size NH1–NH3	800	600 800	4 6	8GG4 400-7 8GG4 400-7		4.100 4.100
size NH00 with adapter	800	600 800	8 12	8GG4 400-7 8GG4 400-7		4.100 4.100
3NJ41 in-line fuse switch disconnectors, vertical mounting position, to DIN 43870						
Busbar center-to-center distance 185 mm	750	250	2	8GK4 752-5KK15		3.000
Operating mechanism behind the door, IP020 160 A, for size NH 00 with adapter		500	4	8GK4 752-5KK25		4.000
250 A to 630 A, for size NH 1-3		750	6	8GK4 752-5KK35		5.000

For cross-arms see Page 7/56.
See also under mounting frames

SIKUS 3200 Side-by-Side Switchgear Cabinets

Assembly kits for power distribution

Module doors Hinged right for vertical mounting, size 00 for 3NJ4, IP20		Module doors Hinged left for vertical mounting, size 00 for 3NJ4, IP20		Module doors Hinged right/ left for vertical mounting, size 00 with adapter up to size 3 for 3NJ4, IP20	
at the top with cutout	center with cutout	at the top with cutout	center with cutout	center with cutout	
Height 600 mm	Height 650 mm	Height 600 mm	Height 650 mm	Height 800 mm	



Order No.	Weight per PU approx. kg	Order No.	Weight per PU approx. kg	Order No.	Weight per PU approx. kg	Order No.	Weight per PU approx. kg	Order No.	Weight per PU approx. kg
--		--		--		--		--	
8GG3 111-2	5.700	8GG3 110-6	5.500	8GG3 111-0	5.700	8GG3 110-4	5.500	8GG3 111-4	7.200
8GG3 111-3	5.500	8GG3 110-7	7.500	8GG3 111-1	5.500	8GG3 110-5	7.500	8GG3 111-5	7.700
--		--		--		--		--	
8GG3 111-2	5.700	8GG3 110-6	5.500	8GG3 111-0	5.700	8GG3 110-4	5.500	8GG3 111-4	7.200
8GG3 111-3	5.500	8GG3 110-7	7.500	8GG3 111-1	5.500	8GG3 110-5	7.500	8GG3 111-5	7.700
8GG3 111-2	5.700	8GG3 110-6	5.500	8GG3 111-0	5.700	8GG3 110-4	5.500	8GG3 111-4	7.200
8GG3 111-3	5.500	8GG3 110-7	7.500	8GG3 111-1	5.500	8GG3 110-5	7.500	8GG3 111-5	7.700

For cross-arms see Page 7/56.



SIKUS 3200 Side-by-Side Switchgear Cabinets

Assembly kits for power distribution

Benefits

- Rated current $I_n = 160 \text{ A}$ to 630 A
- From cabinet width of 600 mm
- Can be installed as fixed-mounted version
- Assembly kit independent of depth
- Device compartments can be additionally partitioned

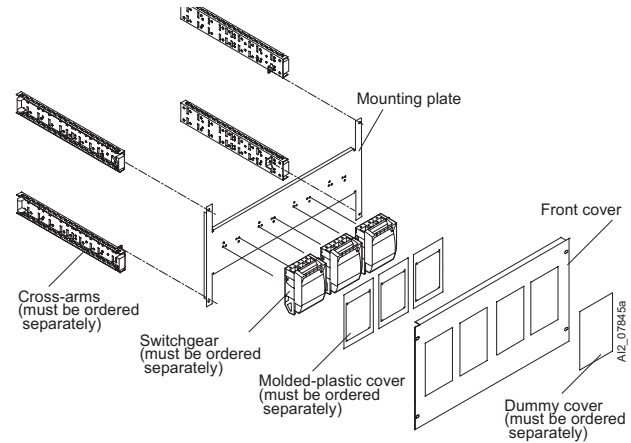


Design

As complete assembly kit

- Consisting of support plate, front cover and fixing accessories
- Cross-arms and molded-plastic covers for assembly kits must be ordered separately

Installation example



Selection and ordering data

LV HRC fuse switch disconnecter/ rated current/ size	Dimensions		Number of poles	Assembly kit		Blanking frame for unoccupied circuit-breaker positions		Molded-plastic covers for 3NP fuse switch disconnecters	
	W	H		Order No.	Weight per PU approx.	Order No.	Weight per PU approx.	Order No.	Weight per PU approx.
	mm	mm			kg		kg		kg

Assembly kit complete, including front cover, support plate and fixing accessories, fixed mounting/withdrawable, from depth of 400 mm

3-pole, size 00, Operating mechanism behind the door, vertical mounting	W	H	Number of poles	Assembly kit Order No.	Weight per PU approx. kg	Blanking frame Order No.	Weight per PU approx. kg	Molded-plastic covers Order No.	Weight per PU approx. kg
for 3NP40 10	600	400	3	8GG4 311-5	2.200	8GG4 830-3	0.550	3NY1 251	0.052
	800		4	8GG4 311-6	3.800				
for 3NP40 70	600	400	3	8GG4 311-5	2.200	8GG4 830-3	0.550	3NY7 200	0.037
	800		4	8GG4 311-6	3.800				
for 3NP42 70, 250 A, size 1	600		2	8GG4 311-7	4.100	8GG4 830-2	1.000	3NY7 220	0.112
	800		3	8GG4 311-8	4.900				
for 3NP43 70, 400 A, size 2	600		2	8GG4 312-0	3.800	8GG4 830-4	1.100	3NY7 230	0.117
	800		3	8GG4 312-1	4.500				
for 3NP44 70, 630 A, size 3	600		2	8GG4 312-2	4.900	8GG4 830-5	1.300	3NY7 240	0.125
	800		3	8GG4 312-3	5.200				
for 3NP52, 250 A, size 1	600		2	8GG4 310-8	5.000	8GG4 830-2	1.000	3NY1 210	0.287
	800		3	8GG4 311-0	5.800				
for 3NP53, 400 A, size 2	600		2	8GG4 311-1	5.000	8GG4 830-4	1.100	3NY1 211	0.298
	800		3	8GG4 311-2	5.800				
for 3NP54, 630 A, size 3	600		2	8GG4 311-1	5.000	8GG4 830-5	1.300	3NY1 212	0.313
	800		3	8GG4 311-2	5.800				

For cross-arms see Page 7/56.

SIKUS 3200 Side-by-Side Switchgear Cabinets

Assembly kits for power distribution

Benefits

- Assembly kit for 3KA, 3KL switch disconnectors, rated current $I_n = 63 \text{ A}$ to 400 A
- Assembly kit for 3KE switch disconnectors, rated current $I_n = 250 \text{ A}$ to 1000 A
- From cabinet width of 600 mm, height 200 mm to 400 mm
- Can be installed as fixed-mounted version
- Assembly kit independent of depth
- Device compartments can be additionally partitioned

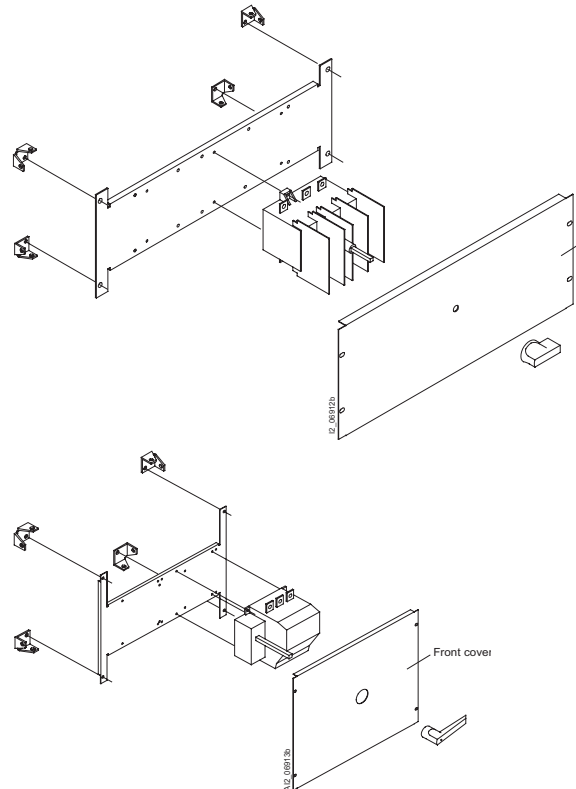


Design

As complete assembly kit

- Including sundries and positioning frame
- Cross-arms for the assembly kits must be ordered separately

Installation example



Selection and ordering data

Switch disconnector/ rated current/ size	Dimensions		Number of poles	DT	Order No.	PS*	Weight per PU approx. kg
	W mm	H mm					
Assembly kit complete, including front cover, support plate and fixing accessories, fixed mounting/withdrawable, from depth of 400 mm							
3KA50/51, 3KL50, 63 A, size 00	600 800	200	3	B	8GG4 300-0	1 set	2.300
				B	8GG4 312-4	1 set	2.500
3KA53, 3KL 52/53, 125/160 A	600 800		2	B	8GG4 300-1	1 set	2.300
				B	8GG4 312-5	1 set	2.500
3KA55/57/58, 3KL55/57, 250 A, size 1/2	600 800	400	1	B	8GG4 300-2	1 set	5.000
				B	8GG4 312-6	1 set	5.800
3KE42, 250 A	600	400	1	B	8GG4 301-0	1 set	5.000
3KE43, 400 A				B	8GG4 301-0	1 set	5.000
3KE44, 630 A				B	8GG4 301-0	1 set	5.000
3KE45, 1000 A				B	8GG4 301-0	1 set	5.000

For cross-arms see Page 7/56.

Mounting frames are required whenever assembly kits are installed with front covers and unequipped section covers.

SIKUS 3200 Side-by-Side Switchgear Cabinets

Assembly kits for power distribution

Benefits

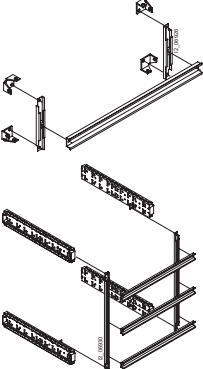
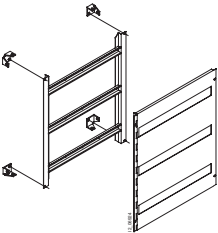
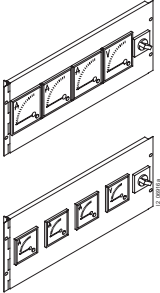
- Distribution section kit of 1.5 mm sheet steel, sendzimir-galvanized
- Color: RAL 7035, light gray

Clearance between rows 200 mm,
24 MW with cabinet width 600 mm,
36 MW with cabinet width 800 mm

Content:

- Complete kit, for installation behind the door, including sundries

Selection and ordering data

	Dimensions		Rows	DT	Order No.	PS*	Weight per PU approx.
	H mm	W mm					
Terminal strips with 35 mm standard mounting rails and fixing accessories							
 <p>Switching device panel without front cover Note: cross-arms for mounting the terminal strips and front covers must be ordered separately</p>	200	600	1	B	8GG4 600-0	1 set	1.200
	400		2	B	8GG4 600-1	1 set	1.300
	600		3	B	8GG4 600-2	1 set	1.500
	200	800	1	B	8GG4 600-3	1 set	1.600
	400		2	B	8GG4 600-4	1 set	1.700
	600		3	B	8GG4 600-5	1 set	1.900
Distribution section hinged with row cutouts for installation equipment							
 <p>Switching device panel with hinged front cover Note: cross-arms must be ordered separately</p> <p>Clearance between rows 200 mm, fixing accessories</p>	200	600	1 = 24 MS	B	8GG4 611-0	1 set	2.330
	400		2 = 48 MS	B	8GG4 611-1	1 set	4.000
	600		3 = 72 MS	B	8GG4 611-2	1 set	5.600
	200	800	1 = 36 MS	B	8GG4 611-3	1 set	3.000
	400		2 = 72 MS	B	8GG4 611-4	1 set	5.300
	600		3 = 108 MS	B	8GG4 611-5	1 set	7.500
Section cover with cutouts for measuring instruments with voltmeter switchover							
 <ul style="list-style-type: none"> • From cabinet width of 600 mm • Cutouts for measuring instruments 72 mm x 72 mm or 96 mm x 96 mm • Additionally with cutouts for voltmeter switchover and fuses 	200	600	4 instruments 72 mm x 72 mm	B	8GG4 200-0	1 set	1.600
			4 instruments 96 mm x 96 mm	B	8GG4 200-1	1 set	1.600
			4 instruments 72 mm x 72 mm with fuses	B	8GG4 200-4	1 set	2.100
			4 instruments 96 mm x 96 mm with fuses	B	8GG4 200-5	1 set	2.100

For cross-arms see Page 7/56.

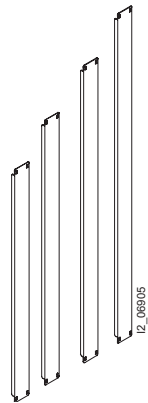
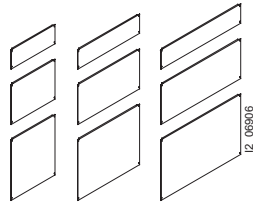
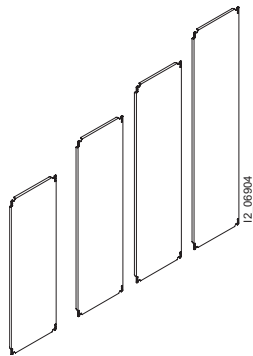
SIKUS 3200 Side-by-Side Switchgear Cabinets

Assembly kits for power distribution

Benefits

- Mounting plates suitable for surface mounting of switching devices
- All mounting plates include fixing accessories
- 3 mm sheet steel, sendzimir-galvanized

Selection and ordering data



	Dimensions			DT	Order No.	PS*	Weight per PU approx. kg	
	H mm	W mm	D mm					
Mounting plates cabinet-high								
	2000	400	A	8GG4 041-0	1 set	18.400		
		600	A	8GG4 042-0	1 set	27.500		
		800	A	8GG4 043-0	1 set	36.700		
		850	B	8GG4 044-0	1 set	39.000		
		1000	A	8GG4 045-0	1 set	45.800		
		1100	A	8GG4 046-0	1 set	50.400		
	2200	1200	A	8GG4 047-0	1 set	55.000		
		400	B	8GG4 061-0	1 set	20.000		
		600	A	8GG4 062-0	1 set	30.200		
		800	A	8GG4 063-0	1 set	40.300		
		1000	A	8GG4 065-0	1 set	50.400		
		1100	A	8GG4 066-0	1 set	55.500		
		1200	A	8GG4 067-0	1 set	61.000		
Partial mounting plates								
<ul style="list-style-type: none"> • Mounting on cross-arms, also to be used as barriers • Cross-arms for partial mounting plates must be ordered separately 								
	200	600	A	8GG4 082-0	1 set	1.800		
		800	A	8GG4 083-0	1 set	2.500		
		1000	B	8GG4 085-0	1 set	3.100		
	400	600	A	8GG4 082-1	1 set	3.400		
		800	A	8GG4 083-1	1 set	4.700		
		1000	A	8GG4 085-1	1 set	6.000		
600	600	A	8GG4 082-2	1 set	5.000			
	800	A	8GG4 083-2	1 set	7.150			
	1000	A	8GG4 085-2	1 set	9.100			
Spacers								
For joining the mounting plate between two cabinets, including fixing accessories								
	2000	400	A	8GG4 048-0	1 set	6.400		
	2200		B	8GG4 068-0	1 set	7.000		
Mounting rails								
		400	A	8GG3 881-0	1 unit	2.600		
		600	A	8GG3 881-1	1 unit	4.000		
		800	A	8GG3 881-2	1 unit	5.600		
		850	A	8GG3 881-3	1 unit	5.800		
		1000	A	8GG3 881-4	1 unit	7.000		
		1100	A	8GG3 881-5	1 unit	7.400		
		2000	400	A	8GG3 881-6	1 unit	2.400	
			600	A	8GG3 881-7	1 unit	3.800	
			800	A	8GG3 881-8	1 unit	5.400	
			400	A	8GG3 882-3	1 unit	14.000	
	2200		A	8GG3 882-4	1 unit	15.400		
	Slide rails							
	For sliding out the mounting plates, including fixing accessories; the use of slide rails is recommended because of the great weight of the mounting plates; once installed they cannot be disassembled.							
			400	A	8GG4 800-0	1 set	1.600	
			600	A	8GG4 800-1	1 set	2.600	
		800	A	8GG4 800-2	1 set	3.600		
Holder for mounting rails								
		600	A	8GG3 882-5	1 set	0.500		

For cross-arms see Page 7/56.

SIKUS 3200 Side-by-Side Switchgear Cabinets

Assembly kits for power distribution

Benefits

- Empty section cover of sheet steel, electrolytically zinc-coated, powder-coated
- Color: RAL 7035, light gray
- Cross-arms for the assembly kits must be ordered separately
- Mounting frames are required for fitting the unequipped section covers

Selection and ordering data

Dimensions		Rows	Unequipped section covers hinged, without cutouts			removable, without cutouts, fixed mounting			removable, with ventilation slots, fixed mounting, IP30				
H	W	DT	Order No.	PS*	Weight per PU approx.	DT	Order No.	PS*	Weight per PU approx.	DT	Order No.	PS*	Weight per PU approx.
mm	mm				kg				kg				kg
200	600	1	B	8GG4 623-0	1 unit	1.600	—	—	—	—	—	—	—
400		2	B	8GG4 623-1	1 unit	2.850	—	—	—	—	—	—	—
600		3	B	8GG4 623-2	1 unit	4.000	—	—	—	—	—	—	—
200	800	1	B	8GG4 623-3	1 unit	2.100	—	—	—	—	—	—	—
400		2	B	8GG4 623-4	1 unit	3.850	—	—	—	—	—	—	—
600		3	B	8GG4 623-5	1 unit	5.500	—	—	—	—	—	—	—
200	1000	1	B	8GG4 624-0	1 unit	2.750	—	—	—	—	—	—	—
400		2	B	8GG4 624-1	1 unit	4.900	—	—	—	—	—	—	—
600		3	B	8GG4 624-2	1 unit	7.000	—	—	—	—	—	—	—
1900	400	2-part	—	—	—	B	8GG4 620-2	1 unit	7.600	—	—	—	—
2100			—	—	—	B	8GG4 620-3	1 unit	8.300	—	—	—	—
100	600	1-part	—	—	—	A	8GG4 621-0	1 unit	1.000	—	—	—	—
100	800		—	—	—	A	8GG4 621-4	1 unit	1.300	—	—	—	—
100	1000		—	—	—	B	8GG4 622-4	1 unit	1.600	—	—	—	—
100	600	1-part	—	—	—	—	—	—	—	B	8GG4 624-4	1 unit	1.000
200			—	—	—	—	—	—	—	B	8GG4 624-6	1 unit	1.600
100	800		—	—	—	—	—	—	—	B	8GG4 624-5	1 unit	1.300
200			—	—	—	—	—	—	—	B	8GG4 624-7	1 unit	2.100

Cross-arms

Selection and ordering data

Dimensions		DT	Single cross-arms			Twin cross-arms		
D	DT	Order No.	PS*	Weight per PU approx.	DT	Order No.	PS*	Weight per PU approx.
mm				kg				kg
400	A	8GG4 880-0	1 set	0.700	A	8GG4 881-0	1 set	1.200
600	A	8GG4 880-1	1 set	1.200	A	8GG4 881-1	1 set	1.900
800	A	8GG4 880-2	1 set	1.700	A	8GG4 881-2	1 set	2.700

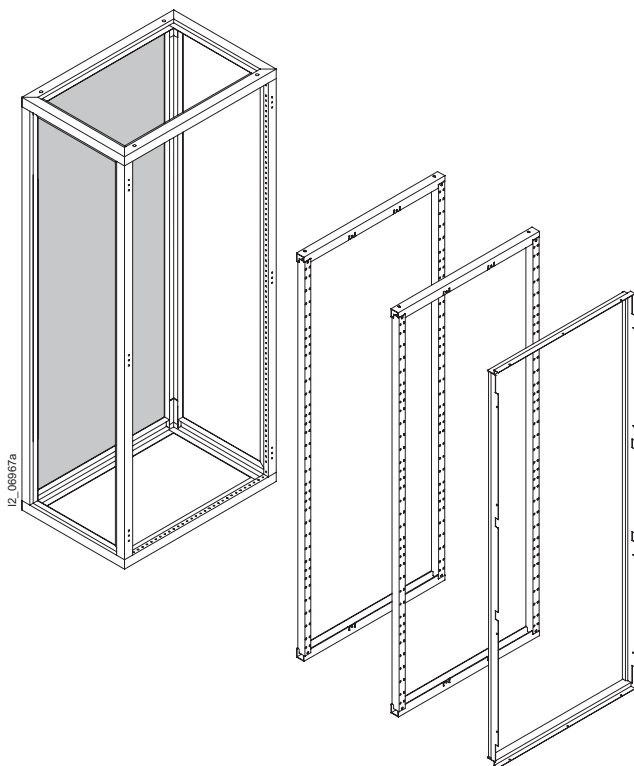
SIKUS 3200 Side-by-Side Switchgear Cabinets

Assembly kits for power distribution

Selection and ordering data

	Dimensions			Depth Assembly kit	DT	Order No.	PS*	Weight per PU approx. kg
	W mm	H mm	D mm					
Adapter set with masking frame for SIKUS 8GD assembly kits								
consisting of 2 transverse stays, 2 full-length vertical stays left and right and masking frame for device mounting depth up to 250 mm								
	2000/H5	600/B2	400	up to 250	A	8GG4 630-6	1 set	13.500
		850/B3			A	8GG4 630-7	1 set	14.500
		1100/B4			A	8GG4 630-8	1 set	15.500
		600/B2	600 ¹⁾		A	8GG4 631-6	1 set	14.500
		850/B3			A	8GG4 631-7	1 set	15.500
		1100/B4			A	8GG4 631-8	1 set	16.500
Adapter set for second level of stays for SIKUS 8GD assembly kits								
additionally required with the adapter set with masking frame for device mounting depth up to 480 mm, consisting of 2 full-length vertical stays left and right								
	2000/H5	600/850/1100	from 600	up to 480	A	8GG4 632-0	1 set	15.000
		B2/B3/B4						

Design



1) For overall depth of 800 mm on request

SIKUS 3200 Side-by-Side Switchgear Cabinets

Assembly kits for power distribution

Benefits

- Frame mounting for 19" withdrawable-unit design
- One modular height (HM) corresponds to 44.45 mm
- Complete kit, including fixing accessories
- For all cabinet heights, regardless of depth
- Color: RAL 7035, light gray
- Double-bit key as standard



Selection and ordering data

Dimensions			Number of 19" heights		DT	Order No.	PS*	Weight per PU approx.
H mm	W mm	D mm	fixed	hinged				kg
19" fixed-mounted/hinged frame for 482.6 mm electronic plug-in units								
19" fixed-mounted frame								
2000	600 800	from 400	42	- 41	B B	8GG6 000-2 8GG6 004-0	1 set 1 set	7.500 8.000
2200	600 800		47	- 46	B B	8GG6 000-3 8GG6 004-1	1 set 1 set	8.500 8.200
19" hinged frame								
400	800	from 400		6	B	8GG6 003-0	1 unit	5.500
600				12	B	8GG6 003-1	1 unit	6.500
800				18	B	8GG6 003-2	1 unit	8.500
2000			42	41	B	8GG6 002-2	1 set	21.000
2200			47	46	B	8GG6 002-3	1 set	23.000

7

SIKUS 3200 Side-by-Side Switchgear Cabinets

Busbar system

Benefits

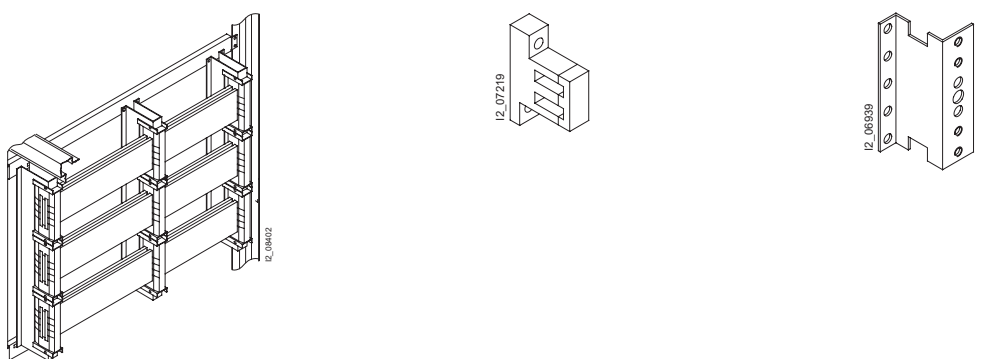
- Mounting and arrangement on the rear panel, minimum cabinet depth 600 mm
 - Rated current of the busbars at + 35 °C ambient temperature
- Note reduction factor, in accordance with DIN 43671
- Cross-arms must be ordered separately

SIKUS 3200 Side-by-Side Switchgear Cabinets

Busbar system

Selection and ordering data

Standard busbar holders for horizontal mounting

Rated current	Copper cross-section L1/L2/L3	Busbar holder for L1/L2/L3	Copper cross-section for N	Busbar holder for N	Copper cross-section for PE	Fixing bracket for N/PE/PEN
						

A		Order No.	Weight per PU approx. kg		Order No.	Weight per PU approx. kg		Order No.	Weight per PU approx. kg
3-pole	800	2 x 20 x 10/ 2 x 30 x 10	8GF5 801	5.400	1 x 20 x 10/	8GG5 220-0	0.200	8GG5 821-0	0.500
	1250				1 x 30 x 10				
	1600	2 x 40 x 10	8GF5 802	5.500	2 x 20 x 10	8GG5 220-0	0.200		
	2000	2 x 60 x 10	8GF5 803	5.600	2 x 30 x 10	8GG5 220-0	0.200		
	2500	2 x 80 x 10	8GF5 804	5.700	2 x 40 x 10	8GG5 220-1	0.600		
	3200	2 x 100 x 10	8GF5 805	5.800	2 x 60 x 10 2 x 80 x 10 2 x 100 x 10	8GG5 220-2 8GG5 220-3 8GG5 220-4	0.600 0.700 0.700		
4-pole	800	2 x 20 x 10/ 2 x 30 x 10	8GF5 806	6.200	1 x 20 x 10/	-		8GG5 821-0	0.500
	1250				1 x 30 x 10				
	1600	2 x 40 x 10	8GF5 807	6.300	2 x 20 x 10	-			
	2000	2 x 60 x 10	8GF5 808	6.400	2 x 30 x 10	-			
	2500	2 x 80 x 10	8GF5 810	6.500	2 x 40 x 10	-			
	3200	2 x 100 x 10	8GF5 811	6.600	2 x 60 x 10	-			

Important:
When using the standard busbar holder a higher busbar temperature of up to + 85 °C is permissible.
Consequently it is permissible to reduce the cross-section at the same rated current.

Please note:
copper dimensions and rated currents

SIKUS 3200 Side-by-Side Switchgear Cabinets

Busbar system

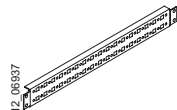
Rated current Rated short-time current I_{CW} (1 s) kA/rated impulse current I_{pk} kA
max. clearance between two busbar holders (in mm)

A	10/20	15/30	20/40	30/63	40/84	50/105	55/121	60/132	65/143	70/154	80/176	100/220
800	1200	800	600	375	275	–	–	–	–	–	–	–
1250	–	–	–	500	375	300	260	235	225	–	–	–
1600	–	–	–	460	340	260	240	220	200	–	–	–
2000	–	–	–	–	–	460	–	380	360	320	280	–
2500	–	–	–	–	–	575	–	460	440	400	375	–
3200	–	–	–	–	–	660	–	540	500	460	–	400

800	1200	800	600	375	275	–	–	–	–	–	–	–
1250	–	–	–	500	375	300	260	235	225	–	–	–
1600	–	–	–	460	340	260	240	220	200	–	–	–
2000	–	–	–	–	–	460	–	380	360	320	280	–
2500	–	–	–	–	–	575	–	460	440	400	375	–
3200	–	–	–	–	–	660	–	540	500	460	–	400

Accessories

Cabinet width Cross-arms for standard busbar holders incl. fixing accessories



W mm	Order No.	Weight per PU approx. kg
400	8GG5 820-0	1.100
600	8GG5 820-1	1.600
800	8GG5 820-2	2.200
850	8GG5 820-3	2.300
1000	8GG5 820-4	2.800
1100	8GG5 820-5	3.100

Important:

When using the standard busbar holder a higher busbar temperature of up to + 85 °C is permissible.

Consequently it is permissible to reduce the cross-section at the same rated current.

Please note: copper dimensions and rated currents.

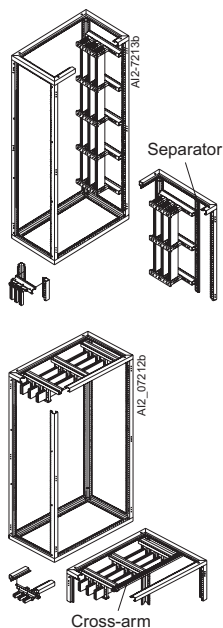
SIKUS 3200 Side-by-Side Switchgear Cabinets

Busbar system

Benefits

- Rated current of the busbars at + 35 °C ambient temperature, note reduction factor, in accordance with DIN 43671

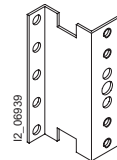
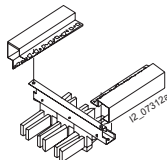
Design



Selection and ordering data

Universal busbar holder for vertical mounting and under-roof mounting

Rated current	Copper cross-section L1/L2/L3	Busbar cross-section L1/L2/L3/N	Mounting depth	Busbar holder vertical mounting, beneath roof	Fixing bracket
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A		mm	mm	mm	Order No.	Weight per PU approx. kg	Order No.	Weight per PU approx. kg
250	L1/L2/L3 + N	1 x 20 x 5	1 x 20 x 5	400	8GF5 725	1.000	8GG5 821-0	0.500
400	L1/L2/L3 + N	1 x 15 x 10	1 x 15 x 10					
250	L1/L2/L3 + N	1 x 20 x 5	2 x 20 x 5	600-800	8GF5 727	3.000	8GG5 821-0	0.500
400	L1/L2/L3 + N	1 x 15 x 10	2 x 15 x 10					
630	L1/L2/L3 + N		1 x 30 x 10		8GF5 728	3.000	8GG5 821-0	0.500
800	L1/L2/L3 + N		2 x 20 x 10 1 x 20 x 10					
1250	L1/L2/L3 + N		2 x 30 x 10 1 x 30 x 10		8GF5 722	3.000	8GG5 821-0	0.500
1600	L1/L2/L3 + N		2 x 60 x 10 1 x 60 x 10		8GF5 723	4.000	8GG5 821-0	0.500
2000	L1/L2/L3 + N		2 x 80 x 10 1 x 80 x 10		8GF5 731	4.500	8GG5 821-0	0.500
2500	L1/L2/L3 + N		2 x 100 x 10 1 x 100 x 10		8GF5 724	4.500	8GG5 821-0	0.500
3200	L1/L2/L3 + N		2 x 120 x 10 1 x 120 x 10		8GF5 732	4.500	8GG5 821-0	0.500

SIKUS 3200 Side-by-Side Switchgear Cabinets












Busbar system

Rated current	Rated short-time current I_{CW} (1 s) kA/rated impulse current I_{pk} kA Busbar distances (in mm)												
A	2.5/4	5/7.5	7.5/12.8	10/17	15/30	20/40	30/63	40/84	50/105	55/121	60/132	65/143	80/176
250	1000	500	300	-	-	-	-	-	-	-	-	-	-
400	-	1100	-	550	300	200	-	-	-	-	-	-	-
250	1000	500	300	-	-	-	-	-	-	-	-	-	-
400	-	1100	-	550	300	200	-	-	-	-	-	-	-
630	-	-	-	1000	-	450	300	250	-	-	-	-	-
800	-	-	-	-	-	-	-	-	-	-	-	-	-
1250	-	-	-	-	-	675	425	300	300	-	-	-	-
1600	-	-	-	-	-	800	550	425	400	-	-	-	-
2000	-	-	-	-	-	-	800	500	500	-	-	350	350
2500	-	-	-	-	-	-	800	500	500	-	-	400	350
3200	-	-	-	-	-	-	850	525	500	-	-	400	350

SIKUS 3200 Side-by-Side Switchgear Cabinets

General accessories



Selection and ordering data

Design	DT	Order No.	PS*	Weight per PU approx. kg
Cabinet lighting				
	with magnetic clamp, SCHUKO socket with earthing contact, On and Off switch	A	8GG3 801-1	1 unit 1.100
	Door limit switch with support plate	A	8GG3 801-0	1 unit 0.200
Circuit-diagram pocket				
	Plastic, DIN A 4, 30 mm deep	A	8GD9 132	1 unit 0.250
	Sheet steel, DIN A 5, 10 mm deep	A	8GD9 286	1 unit 0.240
Wall fixing lugs				
	1 set comprises 2 wall fixing lugs	B	8GG3 880-0	1 set 0.300
Transport eyebolts				
	1 set comprises 4 transport eyebolts	A	8GG3 880-1	1 set 0.200
Paint				
	Housing paint for touching up paint damage	A	8GD9 346	1 unit 0.060
	Paint pen			
	Spray can	B	8GF9 388-2	1 unit 0.340
Mounting fixing bracket				
	For insulators incl. screws	B	8GG3 885-6	1 set 0.100
Wiring flange plates made of molded plastic				
 	Degree of protection IP41			
	Without knockouts	B	8GD6 047	1 unit 0.200
	With cellular rubber insert for cable entry as required	A	8GD6 095	1 unit 0.250
	With filter fan	B	8GD6 157	1 set 1.280
 	With knockouts			
	13 x Pg 3.5/6 x Pg 6/5 x Pg 21	B	8GD6 048	1 unit 0.200
	12 x Pg 29	B	8GD6 050	1 unit 0.200
	4 x Pg 29/3 x Pg 36	B	8GD6 051	1 unit 0.200
	2 x 75 mm/Pg 48/12 x Pg 36/29	B	8GD6 052	1 unit 0.200
	Degree of protection IP55			
	With knockouts			
	13 x Pg 13.5/6 x Pg 16/5 x Pg 21	A	8GD6 054	1 unit 0.200
	12 x Pg 29	A	8GD6 055	1 unit 0.200
	4 x Pg 29/3 x Pg 36	A	8GD6 056	1 unit 0.200
Rubber grommets				
   	For insertion in 38 mm (Pg 29) knockouts Can also be used as blanking plugs, for cables (in mm)			
	1 x 12 to 29	B	8HP1 805	1 unit 0.012
	2 x 6 to 15	B	8HP1 806	1 unit 0.012
	3 x 4 to 12.5	B	8HP1 807	1 unit 0.012
	4 x 4 to 12	B	8HP1 808	1 unit 0.012
Self-tapping screws				
	1 set comprises 100 self-tapping screws			
	M 6 x 12 mm	B	8GG3 883-0	1 set 0.200
M 12 drive-in nut				
	With M 12 x 50 hexagon socket head screw, incl. strain washer (1 set comprises 10 drive-in nuts)			
	For joining cabinet busbars and main busbars	B	8GG3 885-8	1 set 0.800

SIKUS 3200 Side-by-Side Switchgear Cabinets

General accessories

Selection and ordering data

Design	DT	Order No.	PS*	Weight per PU approx. kg		
Locking system for cabinet-height doors in sheet steel or glass design						
Recessable lock-and-release lever with double-bit key and 3 mm pin replaceable with:						
Recessable lock-and-release lever with installation facilities for profile half cylinder	B	8GG3 800-1	1 unit	0.200		
Profile half cylinder with E 012 tumbler arrangement and key	A	8GD9 255	1 set	0.115		
Profile half cylinder with senat tumbler arrangement	A	8GE3 815-3	1 set	0.115		
Locking system for module doors with height of 525 mm to 925 mm						
Standard version, 2-point interlocking with double-bit key and 3 mm pin replaceable with:						
Rotary handle with E 012 tumbler arrangement and key	B	8GG3 800-0	1 unit	0.300		
Recessable lock-and-release lever with installation facilities for profile half cylinder	B	8GG3 800-1	1 unit	0.200		
						
Matching profile half cylinder with E 012 tumbler arrangement and key	A	8GD9 255	1 set	0.115		
						
Matching profile half cylinder with senat tumbler arrangement	A	8GE3 815-3	1 set	0.115		
Locking system for module doors with height of up to 450 mm						
Locking handle with E 012 tumbler arrangement and key	B	8GG3 800-2	1 unit	0.200		
Cabinet height	Cabinet width	Cabinet depth	DT	Order No.	PS*	Weight per PU approx. kg
mm	mm	mm				
Section compartmentalization						
Vertical for module kits form 3a						
200		400	B	8GG3 510-0	1 unit	0.400
		600	B	8GG3 510-1	1 unit	0.700
400		400	B	8GG3 510-2	1 unit	0.900
		600	B	8GG3 510-3	1 unit	1.500
600		400	B	8GG3 510-4	1 unit	1.400
		600	B	8GG3 510-5	1 unit	2.300
Horizontal for module kits form 3a						
	600	400	A	8GG3 511-0	1 unit	1.600
		600	B	8GG3 511-1	1 unit	2.500
	800	400	A	8GG3 511-2	1 unit	2.200
		600	B	8GG3 511-3	1 unit	3.400
Compartmentalization for busbar compartment form 2						
For standard busbar assembly kit only						
2000	400		B	8GG5 800-0	1 set	6.700
	600		B	8GG5 800-1	1 set	9.900
	800		B	8GG5 800-2	1 set	13.100
	1000		B	8GG5 800-3	1 set	16.300
2200	400		B	8GG5 800-4	1 set	7.300
	600		B	8GG5 800-5	1 set	10.500
	800		B	8GG5 800-6	1 set	13.700
	1000		B	8GG5 800-7	1 set	16.900

* This quantity or a multiple thereof can be ordered.

SIKUS 3200 Side-by-Side Switchgear Cabinets

Busbar accessories

Selection and ordering data

Rated current I_n	For Cu dimensions	Number of poles	Cabinet width	DT	Order No.	PS*	Weight per PU approx.
A	mm		mm				kg

Busbar accessories

Cu terminal clamp

For copper thickness of 10 mm (1 set comprises 10 Cu terminal clamps)

A

8GG5 821-1

1 set

0.200

V2A terminal clamp

For copper thickness of 10 mm (1 set comprises 10 V2A terminal clamps)

A

8GG5 821-2

1 set

0.200

SIKUS 3200 Side-by-Side Switchgear Cabinets

Busbar accessories

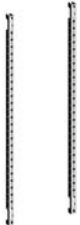
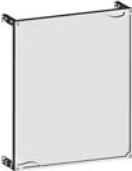

Benefits

- Adapter set for accommodating assembly kits to DIN 43870 from the ALPHA distribution board series in SIKUS 3200 side-by-side switchgear cabinets

Note:

Additional longitudinal stays are required for mounting several assembly kits next to each other, one per assembly kit width.

Selection and ordering data

	Dimensions			Depth of assembly kit mm	DT	Order No.	PS*	Weight per PU approx. kg
	H mm	W mm	D mm					
Adapter set for assembly kits to DIN 43870 (8GK system)								
consisting of 2 transverse stays, 2 full-length vertical stays left and right and masking frame for device mounting depth up to 250 mm								
	2000	400	400	400	A	8GK9 400-0KK15	1 unit	9.000
		600			A	8GK9 400-0KK25	1 unit	10.000
		850			A	8GK9 400-0KK35	1 unit	11.000
		1100			A	8GK9 400-0KK45	1 unit	12.000
	2000	400	600	600	A	8GK9 400-0KK17	1 unit	9.400
		600			A	8GK9 400-0KK27	1 unit	10.500
		850			A	8GK9 400-0KK37	1 unit	11.600
		1100			A	8GK9 400-0KK47	1 unit	12.700
Longitudinal stays to DIN 43870 (8GK system)								
For mounting assembly kits which are not as wide as the full width of the cabinet.								
	1800	–	–	–	A	8GK4 854-8KK05	1 unit	6.000
Unequipped section covers to DIN 43870 (8GK system)								
		150		750	A	8GK4 501-1KK32	1 unit	0.800
		300			A	8GK4 501-2KK32	1 unit	1.300
		450			A	8GK4 501-3KK32	1 unit	1.800
		600			A	8GK4 501-4KK32	1 unit	2.300
Partition, horizontal, to DIN 43870 (8GK system)								
		–		750	A	8GK9 103-0KK30	1 unit	0.600
Blanking strip								
					A	8GK9 910-0KK01	1 unit	0.500
Length 1 m, without predetermined breaking point, for cutting to length								

* This quantity or a multiple thereof can be ordered.

ALPHA 630-DIN Floor-Mounted Distribution Boards

General data

Overview

System

The new Siemens switchboard system, based on decades of experience with distribution boards, is of modular design.

Particular attention was paid to individual installation practices.

The system includes unequipped boards as flat packs (delivered in individual parts for customer assembly, see also Part 3) in degree of protection IP43, unequipped boards ready assembled in degree of protection IP55, assembly kits for project-related and individual compilation, and a comprehensive range of accessories.

Enclosure

Material: sheet steel, electrolytically zinc-coated, powder-coated.

Sheet thickness:

degree of protection IP43/IP55

body 1 mm, door 1 mm

Color:

RAL 7035 (light gray)

Other RAL colors on request.

Assembly kits

The assembly kits consist of sendzimir-galvanized sheet steel and molded-plastic covers for a wide range of configuration possibilities, for example for switchgear and installation equipment.

The largest switching devices that can be installed in the ALPHA 630-DIN floor-mounted distribution boards are the Siemens switching devices up to a maximum rated current of 630 A.

Cabinet dimensions

All dimensions in mm

Height:

Internal dimension: 1800

External dimension with base: 1950

Width (internal/external dimensions):

250/300, 500/550, 750/800, 1000/1050, 1250/1300

Depth (external dimension): 210, 250, 320

Assembly kits in section size grid dimension

Height x width: 150 x 250



Area of application

The ALPHA 630-DIN floor-mounted distribution boards are used wherever an ALPHA 400-DIN wall-mounting distribution board no longer provides sufficient component and wiring space, for example in administrative, non-residential, commercial and industrial buildings.

It rounds off the Siemens distribution board range with three different depths: 210 mm, 250 mm and 320 mm.

The distribution boards and components are designed as part of a modular system.

With just a few standard elements, they provide the widest possible variety and project-related mounting and configuration possibilities.

The ALPHA 630-DIN floor-mounted distribution boards comprise wall cabinets with up to 12 installation equipment units, each with 12 MW per unit of width (250 mm). The standard mounting rail row spacing is 150 mm as standard. A total of 5 board widths of 250 mm each (internal dimension) are available.

The cabinets are designed to meet safety class 1 (protective conductor terminal) and safety class 2 (total insulation). For floor-mounted distribution boards the standard degrees of protection are IP43 with a depth of 210 mm (flat pack: delivery in separate parts) and IP55 (unequipped board, preassembled) with depths of 250 mm and 320 mm. The rated current is 630 A.

40 mm or 60 mm busbar systems with dimensions up to 30 mm x 10 mm can be installed.

The modular system allows easy planning, configuring, cost calculation, ordering and assembly.

The assembly kits available for all the switchgear and installation equipment that can be fitted are designed such that only one size of screwdriver is needed for mounting.

ALPHA 630-DIN Floor-Mounted Distribution Boards

General data

Technical specifications

Overvoltage category		III
Rated impulse withstand voltage U_{imp}	kV	6
Air and creepage clearances		DIN VDE 0110
Rated insulation voltage U	V	690
Rated operating voltage U_e	AC/DC V	690
Rated voltage U_n (AC 40 Hz to 60 Hz)	V	690 for installed equipment
Rated current	A	up to 630
Rated peak withstand current I_{pk}	kA	up to 61.3 (3-pole) ²⁾ , conduction interval 30 ms
Rated short-time current I_{cw}	kA	20, conduction interval 1 s
Protective measures		Safety class 1 (protective conductor terminal) Safety class 2 (total insulation)
Number of conductors in busbar run		4/5
Degree of protection to EN 60529		IP43 with door, IP55 with door (with matching flanges)
Mounting rail row spacing per mounting rail row	mm	150
Modular width (MW)		18 mm, 12 MW + 1 MW can be mounted
Pollution degree		3
Ambient temperature	°C	35 (24 h mean value)
Relative atmospheric humidity	%	50 at 40 °C
Test specifications		to EN 60439-1/3 (VDE 0660 Part 500/504), DIN VDE 0603-1
Enclosure		Sheet steel
Mounting dimensions		DIN 43870
Surface		Electrolytically zinc-coated and powder-coated
Color¹⁾		RAL 7035 (light gray)
Locking devices		3-point interlocking with integrated espagnolette lock (on request can be replaced by other locking systems)
Packing		Impact-resistant, environmentally friendly

Dimensions for cabinets

Cabinet (external dimensions)			
Height mm	Width mm	Depth mm	
1950 with base (100 mm)	300	210	
	550		
	800		
	1050		
	1300		
1950 with base (100 mm)	300	250	
	550		
	800		
	1050		
	1300		
1950 with base (100 mm)	300	320	
	550		
	800		
	1050		
	1300		

1) Other RAL colors on request.

2) Busbar holder spacing 400 mm, Cu busbar 30 mm × 10 mm.

ALPHA 630-DIN Floor-Mounted Distribution Boards













Unequipped cabinets

Benefits

- Types of delivery:
 - flat pack (board assembly kit for customer assembly: the cabinet-height rapid assembly kits (RMK) and the assembly kits can be mounted directly on the platform (rear panel) of the kit)
 - unequipped cabinet, preassembled
- Cabinet depth 210 mm
- Safety class 1 (protective conductor terminal) and safety class 2 (total insulation)
- Degree of protection IP43
- Color RAL 7035 (light gray)
- Enclosure (with base) unassembled with door¹⁾ supplied separately or enclosure (with base) preassembled with door¹⁾ and espagnolette lock, which can be replaced with other locking systems
- Flanges on the outgoing side, one 2-component flange per section width

Selection and ordering data

8GK1 surface-mounting distribution board

Cabinet (internal/external dimensions)		DT	Safety class 1 Order No.	PS*	Weight per PU approx.	DT	Safety class 2 Order No.	PS*	Weight per PU approx.
Height mm	Width mm				kg				kg
Cabinet depth 210 mm			Delivery as flat pack, degree of protection IP43						
1800/ 1950 with base 	250/300		A	8GK1 302-8KK12	1 unit	26.500 A	8GK1 312-8KK12	1 unit	29.000
	500/550		A	8GK1 302-8KK22	1 unit	37.500 A	8GK1 312-8KK22	1 unit	40.500
	750/800		A	8GK1 302-8KK32	1 unit	48.500 A	8GK1 312-8KK32	1 unit	52.000
	1000/1050		A	8GK1 302-8KK42	1 unit	59.000 A	8GK1 312-8KK42	1 unit	63.500
	1250/1300		A	8GK1 302-8KK52	1 unit	70.000 A	8GK1 312-8KK52	1 unit	75.000
Cabinet depth 210 mm			Delivery as unequipped cabinet, preassembled, degree of protection IP43						
1800/ 1950 with base 	250/300		A	8GK1 322-8KK12	1 unit	26.500 A	8GK1 332-8KK12	1 unit	29.000
	500/550		A	8GK1 322-8KK22	1 unit	37.500 A	8GK1 332-8KK22	1 unit	40.500
	750/800		A	8GK1 322-8KK32	1 unit	48.500 A	8GK1 332-8KK32	1 unit	52.000
	1000/1050		A	8GK1 322-8KK42	1 unit	59.000 A	8GK1 332-8KK42	1 unit	63.500
	1250/1300		A	8GK1 322-8KK52	1 unit	70.000 A	8GK1 332-8KK52	1 unit	75.000

Assembly kits see Pages 7/73 to 7/82.
Accessories see Pages 7/83 to 7/88.

1) From a cabinet width of 750 mm/800 mm a double door is supplied.

ALPHA 630-DIN Floor-Mounted Distribution Boards

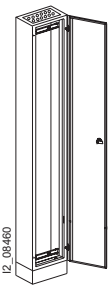
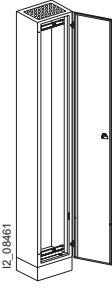
Unequipped cabinets

Benefits

- Delivered as unequipped cabinet, preassembled
- Cabinet depths 250 mm and 320 mm
- Safety class 1 (protective conductor terminal) and safety class 2 (total insulation)
- Degree of protection IP55
- Color RAL 7035 (light gray)
- Enclosure (with base) unassembled with door¹⁾ supplied separately packed or enclosure (with base) unassembled with door¹⁾ and espagnolette lock, which can be replaced with other locking systems
- Flanges on the incoming and outgoing side, one 2-component flange per cabinet width

Selection and ordering data

8GK1 surface-mounting distribution board

Cabinet (internal/external dimensions)		DT	Safety class 1 Order No.	PS*	Weight per PU approx. kg	DT	Safety class 2 Order No.	PS*	Weight per PU approx. kg
Height mm	Width mm								
Cabinet depth 250 mm									
Delivery as unequipped cabinet, preassembled, degree of protection IP55									
1800/ 1950 with base 	250/300	A	8GK1 323-8KK13	1 unit	39.500 A		8GK1 333-8KK13	1 unit	41.500
	500/550	A	8GK1 323-8KK23	1 unit	55.000 A		8GK1 333-8KK23	1 unit	58.000
	750/800	A	8GK1 323-8KK33	1 unit	70.000 A		8GK1 333-8KK33	1 unit	74.500
	1000/1050	A	8GK1 323-8KK43	1 unit	86.500 A		8GK1 333-8KK43	1 unit	91.000
	1250/1300	A	8GK1 323-8KK53	1 unit	102.500 A		8GK1 333-8KK53	1 unit	107.500
Cabinet depth 320 mm									
Delivery as unequipped cabinet, preassembled, degree of protection IP55									
1800/ 1950 with base 	250/300	A	8GK1 323-8KK14	1 unit	43.500 A		8GK1 333-8KK14	1 unit	45.500
	500/550	A	8GK1 323-8KK24	1 unit	59.000 A		8GK1 333-8KK24	1 unit	62.000
	750/800	A	8GK1 323-8KK34	1 unit	75.000 A		8GK1 333-8KK34	1 unit	78.500
	1000/1050	A	8GK1 323-8KK44	1 unit	90.500 A		8GK1 333-8KK44	1 unit	95.000
	1250/1300	A	8GK1 323-8KK54	1 unit	106.500 A		8GK1 333-8KK54	1 unit	112.000

Assembly kits see Page 7/73 onwards.
Accessories see Page 7/83 onwards.

1) From a cabinet width of 750 mm/800 mm a double door is supplied.



















ALPHA 630-DIN Floor-Mounted Distribution Boards

Unequipped cabinets

Benefits

- Marshalling boxes for supporting the incoming and outgoing cables, optional expansion for terminal blocks possible
- Large foamed cover on front with fixing screws
- Dimensions: height 350 mm, depths 210 mm, 250 mm and 320 mm
- Safety class 1 (protective conductor terminal)
- Protection class IP43 and IP55
- Color RAL 7035 (light gray)
- Flanges must be ordered separately

Selection and ordering data

Marshalling box External dimensions			DT	Safety class 1 Order No.	PS*	Weight per PU approx.
Height mm	Width mm					kg
Marshalling box depth 210 mm			Degree of protection IP43			
350	300		A	8GK1 382-0KK12	1 unit	6.540
	550		A	8GK1 382-0KK22	1 unit	9.780
	800		A	8GK1 382-0KK32	1 unit	13.030
	1050		A	8GK1 382-0KK42	1 unit	16.270
	1300		A	8GK1 382-0KK52	1 unit	19.510
Marshalling box depth 250 mm			Degree of protection IP55			
350	300		A	8GK1 383-0KK13	1 unit	7.090
	550		A	8GK1 383-0KK23	1 unit	10.850
	800		A	8GK1 383-0KK33	1 unit	14.610
	1050		A	8GK1 383-0KK43	1 unit	18.380
	1300		A	8GK1 383-0KK53	1 unit	22.140
Marshalling box depth 320 mm			Degree of protection IP55			
350	300		A	8GK1 383-0KK14	1 unit	8.380
	550		A	8GK1 383-0KK24	1 unit	12.420
	800		A	8GK1 383-0KK34	1 unit	16.460
	1050		A	8GK1 383-0KK44	1 unit	20.500
	1300		A	8GK1 383-0KK54	1 unit	24.550

8GK4 longitudinal stays

Height mm	Depth mm		Order No.	PS*	Weight per PU approx.
Stays					
Stays are available for mounting in the marshalling boxes (1 set = 2 units)					
300	210	A	8GK4 855-2KK02	1 set	0.560
	250, 320	A	8GK4 855-2KK03	1 set	1.000
2 longitudinal stays are required for each assembly kit width for mounting the assembly kits in the unequipped cabinets (1 set = 2 units)					
1800	210	A	8GK4 853-8KK00	1 set	2.500
	250, 320	A	8GK4 853-8KK01	1 set	2.500

ALPHA 630-DIN Floor-Mounted Distribution Boards

Assembly kits for unequipped cabinets

Benefits

- Assembly kits for individual and project-related composition, consisting of: switching device panels, unequipped section cover with supports, screws and fixing accessories
- Dimensions of the assembly kits (mm)
Height: 150, 300, 450, 600
Width: 250, 500, 750
Section size grid dimensions H × W: 150 × 250
- Unequipped section cover can be sealed as standard and can be quickly and securely attached to the supports by quick-release lock system.

Note:

For installing the assembly kits in the unequipped cabinets, 2 longitudinal stays per assembly kit are required; these must be ordered in addition.

Selection and ordering data

8GK4 assembly kits for installation equipment

Assembly kits (external dimensions)		Rows/ MW	DT	Row spacing 150 mm, without N/PE bar Order No.	PS*	Weight per PU approx. kg
Height mm	Width mm					
150	250	1/12	A	8GK4 351-1KK12	1 unit	0.600
	500	1/24	A	8GK4 351-1KK22	1 unit	1.200
		1/36	A	8GK4 351-1KK32	1 unit	1.500
300	250	2/24	A	8GK4 351-2KK12	1 unit	1.200
	500	2/48	A	8GK4 351-2KK22	1 unit	2.400
	750	2/72	A	8GK4 351-2KK32	1 unit	3.000
450	250	3/36	A	8GK4 351-3KK12	1 unit	1.800
	500	3/72	A	8GK4 351-3KK22	1 unit	3.600
	750	3/108	A	8GK4 351-3KK32	1 unit	4.500
600	250	4/48	A	8GK4 351-4KK12	1 unit	2.400
	500	4/96	A	8GK4 351-4KK22	1 unit	4.800
	750	4/144	A	8GK4 351-4KK32	1 unit	6.000

The 250 mm-wide ASSEMBLY KITS are equipped with 7.5 mm standard mounting rails.
The 500 mm/750 mm-wide ASSEMBLY KITS are equipped with 15 mm standard mounting rails.
Accessories see Page 7/83 onwards.

ALPHA 630-DIN Floor-Mounted Distribution Boards

Assembly kits for unequipped cabinets

Benefits

- Assembly kits for individual and project-related composition, consisting of: switching device panels, unequipped section cover with supports, screws and fixing accessories
- Dimensions of the assembly kits (mm)
Height: 150, 300, 450
Width: 250, 500, 750
Section
- Unequipped section cover can be sealed as standard and can be quickly and securely attached to the supports by quick-release lock system.

Note:

For installing the assembly kits in the unequipped cabinets, 2 longitudinal stays per assembly kit are required; these must be ordered in addition (see Page 7/72).

Selection and ordering data

8GK4 assembly kits for terminal blocks, horizontal

Assembly kits (external dimensions)		DT	Order No.	PS*	Weight per PU approx.
Height mm	Width mm				kg
150	250	A	8GK4 401-1KK12	1 unit	0.700
300	250	A	8GK4 401-2KK12	1 unit	1.400
	500	A	8GK4 401-2KK22	1 unit	2.800
	750	A	8GK4 401-2KK32	1 unit	4.200
450	500	A	8GK4 401-3KK22	1 unit	4.200
	750	A	8GK4 401-3KK32	1 unit	6.300

Accessories see Page 7/83 onwards.

ALPHA 630-DIN Floor-Mounted Distribution Boards

Assembly kits for unequipped cabinets

Benefits

- Assembly kits for individual and project-related composition, consisting of: switching device panels, unequipped section cover with supports, screws and fixing accessories
- Dimensions of the assembly kits (mm) according to DIN 43870
Height: 300, 450, 600
Width: 250, 500, 750
Section size grid dimensions H × W: 150 × 250




- Unequipped section cover can be sealed as standard and can be quickly and securely attached to the supports by quick-release lock system.

Note:

For installing the assembly kits in the unequipped cabinets, 2 longitudinal stays per assembly kit are required; these must be ordered in addition (see Page 7/72).

Selection and ordering data

8GK4 assembly kits for terminal blocks, vertical

Assembly kits (external dimensions)		DT	Order No.	PS*	Weight per PU approx. kg
Height mm	Width mm				
Terminal strip insulated, closed with unequipped section cover					
300	250		A	8GK4 402-2KK12	1 unit 1.300
	500		A	8GK4 402-2KK22	1 unit 2.600
	750		A	8GK4 402-2KK32	1 unit 3.000
450	250		A	8GK4 402-3KK12	1 unit 1.900
	500		A	8GK4 402-3KK22	1 unit 3.900
	750		A	8GK4 402-3KK32	1 unit 4.500
600	250		A	8GK4 402-4KK12	1 unit 2.600
	500		A	8GK4 402-4KK22	1 unit 5.200
	750		A	8GK4 402-4KK32	1 unit 6.000

Accessories see Page 7/83 onwards.

ALPHA 630-DIN Floor-Mounted Distribution Boards

Assembly kits for unequipped cabinets

Benefits

- Assembly kits for individual and project-related composition, consisting of: switching device panels, unequipped section cover with supports, mounting bracket (depth-adjustable), screws and fixing accessories
- Dimensions of the assembly kits (mm) according to DIN 43870
Height: 300, 450, 600
Width: 250, 500, 750
Section size grid dimensions H × W: 150 × 250
- Unequipped section cover can be sealed as standard and can be quickly and securely attached to the supports by quick-release lock system.

Note:

For installing the assembly kits in the unequipped cabinets, 2 longitudinal stays per assembly kit are required; these must be ordered in addition (see Page 7/72).

Selection and ordering data

8GK4 assembly kits with mounting plates

Assembly kits (external dimensions)		DT	Order No.	PS*	Weight per PU approx. kg
Height mm	Width mm				
closed with unequipped section cover					
300	250	A	8GK4 451-2KK12	1 unit	2.200
	500	A	8GK4 451-2KK22	1 unit	4.400
	750	A	8GK4 451-2KK32	1 unit	5.000
450	250	A	8GK4 451-3KK12	1 unit	3.300
	500	A	8GK4 451-3KK22	1 unit	6.600
	750	A	8GK4 451-3KK32	1 unit	7.000
600	250	A	8GK4 451-4KK12	1 unit	4.400
	500	A	8GK4 451-4KK22	1 unit	8.800
	750	A	8GK4 451-4KK32	1 unit	9.000

Accessories see Page 7/83 onwards.

ALPHA 630-DIN Floor-Mounted Distribution Boards

Assembly kits for unequipped cabinets

Benefits

- Assembly kits for individual and project-related composition, consisting of: switching device panels, unequipped section cover with supports, screws and fixing accessories
- Dimensions of the assembly kits (mm) according to DIN 43870
Height: 75, 150, 300, 450, 600
Width: 250, 500, 750
Section size grid dimensions H × W: 150 × 250

- Unequipped section cover can be sealed as standard and can be quickly and securely attached to the supports by quick-release lock system.

Note:

For installing the assembly kits in the unequipped cabinets, 2 longitudinal stays per assembly kit are required; these must be ordered in addition (see Page 7/72).

Selection and ordering data

8GK4 assembly kits for unequipped sections

Assembly kits (external dimensions)			DT	Order No.	PS*	Weight per PU approx. kg
Height mm	Width mm					
75	250		A	8GK4 501-0KK12	1 unit	0.130
	500		A	8GK4 501-0KK22	1 unit	0.260
150	250		A	8GK4 501-1KK12	1 unit	0.260
	500		A	8GK4 501-1KK22	1 unit	0.520
	750		A	8GK4 501-1KK32	1 unit	0.800
300	250		A	8GK4 501-2KK12	1 unit	0.520
	500		A	8GK4 501-2KK22	1 unit	1.040
	750		A	8GK4 501-2KK32	1 unit	1.300
450	250		A	8GK4 501-3KK12	1 unit	0.780
	500		A	8GK4 501-3KK22	1 unit	1.560
	750		A	8GK4 501-3KK32	1 unit	1.800
600	250		A	8GK4 501-4KK12	1 unit	1.040
	500		A	8GK4 501-4KK22	1 unit	2.080
	750		A	8GK4 501-4KK32	1 unit	2.300

Accessories see Page 7/83 onwards.

ALPHA 630-DIN Floor-Mounted Distribution Boards

Assembly kits for unequipped cabinets

Benefits

- Assembly kits for individual and project-related composition, consisting of: switching device panels, unequipped section cover with supports, screws and fixing accessories
- Dimensions of the assembly kits (mm)
Height: 300, 450
Width: 250, 500
Section size grid dimensions H × W: 150 × 250

- Unequipped section cover can be sealed as standard and can be quickly and securely attached to the supports by quick-release lock system.

Note:

For installing the assembly kits in the unequipped cabinets, 2 longitudinal stays per assembly kit are required; these must be ordered in addition (see Page 7/72).

Selection and ordering data

8GK4 assembly kits for 3NP4 fuse switch disconnectors for mounting on support plate

Assembly kits (external dimensions)		DT	Order No.	PS*	Weight per PU approx.
Height mm	Width mm				kg

For 3NP4 fuse switch disconnectors for mounting on support plate

with matching cover and molded-plastic masking frame
up to 160 A, for LV HRC fuse switch disconnectors NH000

300	250		1 × 3NP40 10	A	8GK4 551-2KK12	1 unit	1.900
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			2 × 3NP40 10	A	8GK4 552-2KK12	1 unit	1.900
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450	250		4 × 3NP40 10	A	8GK4 553-3KK12	1 unit	1.900
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up to 160 A, for LV HRC fuse switch disconnectors NH00

300	250		1 × 3NP40 70	A	8GK4 554-2KK12	1 unit	1.900
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			2 × 3NP40 70	A	8GK4 555-2KK12	1 unit	1.900
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up to 250 A, for LV HRC fuse switch disconnectors NH1

450	250		1 × 3NP42 70	A	8GK4 556-3KK12	1 unit	2.100
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up to 400 A, for LV HRC fuse switch disconnectors NH2

450	250		1 × 3NP43 70	A	8GK4 557-3KK12	1 unit	2.100
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up to 630 A, for LV HRC fuse switch disconnectors NH3

450	500		1 × 3NP44 70	A	8GK4 558-3KK13	1 unit	2.300
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Accessories see Page 7/83 onwards.

ALPHA 630-DIN Floor-Mounted Distribution Boards

Assembly kits for unequipped cabinets

Benefits

- Assembly kits for individual and project-related composition, consisting of: switching device panels, unequipped section cover with supports, screws and fixing accessories
- Dimensions of the assembly kits (mm)
Height: 300, 450
Width: 250
Section size grid dimensions H × W: 150 × 250

- Unequipped section cover can be sealed as standard and can be quickly and securely attached to the supports by quick-release lock system.




Note:

For installing the assembly kits in the unequipped cabinets, 2 longitudinal stays per assembly kit are required; these must be ordered in addition (see Page 7/72).

The copper busbar and the busbar holders must be ordered in addition (see Page 7/85).

Selection and ordering data

8GK4 assembly kits for 3NP4 fuse switch disconnectors for mounting on busbars

Assembly kits (external dimensions)		DT	Order No.	PS*	Weight per PU approx.
Height mm	Width mm				kg
Busbar center-to-center distance 40 mm/60 mm, with matching cover and molded-plastic masking frame up to 160 A, for LV HRC fuse switch disconnectors NH000					
300	250				
		1 × 3NP40 15/3NP40 16	A	8GK4 651-2KK12	1 unit 1.200
		2 × 3NP40 15/3NP40 16	A	8GK4 652-2KK12	1 unit 1.200
up to 160 A, for LV HRC fuse switch disconnectors NH00					
450	250				
		1 × 3NP40 75/3NP40 76	A	8GK4 653-3KK12	1 unit 1.500
		2 × 3NP40 75/3NP40 76	A	8GK4 654-3KK12	1 unit 1.500
up to 250 A, for LV HRC fuse switch disconnectors NH1					
450	250				
		1 × 3NP42 75/3NP42 76	A	8GK4 655-3KK12	1 unit 1.800

Accessories see Page 7/83 onwards.

* This quantity or a multiple thereof can be ordered.

ALPHA 630-DIN Floor-Mounted Distribution Boards

Assembly kits for unequipped cabinets

Benefits

- Assembly kits for individual and project-related composition, consisting of: switching device panels, unequipped section cover with supports, screws and fixing accessories
- Dimensions of the assembly kits (mm)
Height: 450, 600
Width: 250, 500
Section size grid dimensions H × W: 150 × 250




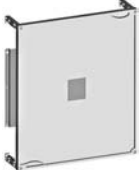
- Unequipped section cover can be sealed as standard and can be quickly and securely attached to the supports by quick-release lock system.

Note:

For installing the assembly kits in the unequipped cabinets, 2 longitudinal stays per assembly kit are required; these must be ordered in addition (see Page 7/72).

Selection and ordering data

8GK4 assembly kits for SENTRON VL circuit-breakers

Assembly kits (external dimensions)				DT	Order No.	PS*	Weight per PU approx. kg
Height mm	Width mm						
3-pole							
450	250		1 × VL160X, 1 × VL160, 1 × VL250	A	8GK4 701-3KK12	1 unit	1.900
600	250		1 × VL400	A	8GK4 702-4KK12	1 unit	1.900
			1 × VL630	A	8GK4 703-4KK13	1 unit	2.300
4-pole							
600	500		1 × VL630	A	8GK4 704-4KK13	1 unit	8.800

Accessories see Page 7/83 onwards.

ALPHA 630-DIN Floor-Mounted Distribution Boards

Assembly kits for unequipped cabinets

Benefits

- Assembly kits for individual and project-related composition, consisting of: switching device panels, unequipped section cover with supports, screws and fixing accessories
- Dimensions of the assembly kits (mm)
Height: 600
Width: 250, 500, 750
Section size grid dimensions H × W: 150 × 250

- Unequipped section cover can be sealed as standard and can be quickly and securely attached to the supports by quick-release lock system.

Note:

For installing the assembly kits in the unequipped cabinets, 2 longitudinal stays per assembly kit are required; these must be ordered in addition (see Page 7/72).

Selection and ordering data

8GK4 assembly kits for 3NJ4 in-line fuse switch disconnectors

Assembly kits (external dimensions)		DT	Order No.	PS*	Weight per PU approx.
Height mm	Width mm				kg
Busbar center-to-center distance 100 mm with busbar holder					
600	250		4 × 3NJ4, size 00	A	8GK4 751-4KK13 1 set 3.000
	500		9 × 3NJ4, size 00	A	8GK4 751-4KK23 1 set 3.500
	750		14 × 3NJ4, size 00	A	8GK4 751-4KK33 1 set 5.000



Accessories see Page 7/83 onwards.

* This quantity or a multiple thereof can be ordered.

ALPHA 630-DIN Floor-Mounted Distribution Boards

Assembly kits for unequipped cabinets

Benefits

- Assembly kits for individual and project-related composition, consisting of: switching device panels, unequipped section cover with supports, busbar holder for bar-mounting fuse base, screws and fixing accessories
- Dimensions of the assembly kits (mm)
Height: 300, 450
Width: 250
Section size grid dimensions H × W: 150 × 250
- Unequipped section cover can be sealed as standard and can be quickly and securely attached to the supports by quick-release lock system.



Note:

For installing the assembly kits in the unequipped cabinets, 2 longitudinal stays per assembly kit are required; these must be ordered in addition (see Page 7/72).

The copper busbar must be ordered in addition (see Page 7/85).

Selection and ordering data

8GK4 assembly kits for bar-mounting fuse bases for mounting on busbar systems

Assembly kits (external dimensions)		DT	Order No.	PS*	Weight per PU approx.
Height mm	Width mm				kg
3-pole, busbar center-to-center distance 60 mm					
300	250		7 x NEOZED D02	A	8GK4 801-2KK12 1 unit 1.200
450	250		7 x NEOZED D02	A	8GK4 801-3KK12 1 unit 1.500







Accessories see Page 7/83 onwards.

ALPHA 630-DIN Floor-Mounted Distribution Boards

Accessories

Selection and ordering data

Unequipped cabinets







Cabinet (external dimensions)	Depth	DT	Order No.	PS*	Weight per PU approx. kg	
						Height mm
Transparent doors (Giugiaro design)						
Degree of protection IP43, color RAL 7035 (light gray) ¹⁾ The standard sheet-steel doors can be replaced by these doors. From widths of 800 mm the transparent doors are supplied as double doors.						
	1850	300	A	8GK9 503-0KK10	1 unit 9.150	
		550	A	8GK9 503-0KK20	1 unit 14.310	
		800	A	8GK9 503-0KK30	1 unit 19.470	
		1050	A	8GK9 503-0KK40	1 unit 24.630	
		1300	A	8GK9 503-0KK50	1 unit 29.790	
						
Flanges						
For quick and tidy cable laying						
	<u>Single-component flange</u>		A	8GK9 100-0KK00	1 unit 0.200	
	for incoming-side cable entry with 11 possible knockouts max. Ø 50.5 mm, plastic material					
	<u>2-component flange</u> (degree of protection IP55)		A	8GK9 100-0KK01	1 unit 0.200	
for outgoing-side cable entry with 44 possible knockouts consisting of two elastic components						
<u>Flange plate, sheet steel</u> for metric screwed glands						
Degree of protection IP43		A	8GK9 100-0KK02	1 set 0.800		
Degree of protection IP55		A	8GK9 100-0KK03	1 set 1.000		
Bases						
	100	300	210	A	8GK9 901-0KK12	1 unit 4.000
		550		A	8GK9 901-0KK22	1 unit 4.500
		800		A	8GK9 901-0KK32	1 unit 5.000
		1050		A	8GK9 901-0KK42	1 unit 5.500
		1300		A	8GK9 901-0KK52	1 unit 6.000
		300	250	A	8GK9 901-0KK13	1 unit 4.500
		550		A	8GK9 901-0KK23	1 unit 5.000
		800		A	8GK9 901-0KK33	1 unit 5.500
		1050		A	8GK9 901-0KK43	1 unit 6.000
		1300		A	8GK9 901-0KK53	1 unit 6.500
		300	320	A	8GK9 901-0KK14	1 unit 5.000
		550		A	8GK9 901-0KK24	1 unit 5.500
		800		A	8GK9 901-0KK34	1 unit 6.000
		1050		A	8GK9 901-0KK44	1 unit 6.500
		1300		A	8GK9 901-0KK54	1 unit 7.000

1) Further degrees of protection and colors on request.

* This quantity or a multiple thereof can be ordered.

ALPHA 630-DIN Floor-Mounted Distribution Boards

Accessories

	Width	DT	Order No.	PS*	Weight per PU approx.
	mm				kg
Locking systems					
  	<u>Lock-and-release lever</u> recessable, with pushbutton system		A 8GK9 561-0KK01	1 unit	0.300
	<u>Profile half cylinder, 40 mm, with E012 tumbler arrangement</u> with insert for the lock-and-release lever, to be used only in conjunction with the lock insert (this must be ordered separately)		A 8GK9 561-0KK00	1 unit	0.150
	<u>Lock insert</u> for fitting the profile half cylinder		A 8GK9 561-0KK02	1 unit	0.150
Cable propping bars					
	for strain relief	250	A 8GK9 911-0KK10	1 unit	0.800
	C-profile 30 mm x 15 mm	500	A 8GK9 911-0KK20	1 unit	1.100
		750	A 8GK9 911-0KK30	1 unit	1.300
		1000	A 8GK9 911-0KK40	1 unit	1.400
		1250	A 8GK9 911-0KK50	1 unit	1.500
Circuit-diagram pockets					
	DIN A 3, sheet steel, depth 10 mm		A 8GK9 910-0KK22	1 unit	0.100
	DIN A 4, plastic, depth 30 mm		A 8GD9 132	1 unit	0.250
	DIN A 4, transparent folder		A 8GK9 910-0KK23	1 unit	0.100
	DIN A 5, sheet steel, depth 10 mm		A 8GD9 286	1 unit	0.240
Siemens nameplate					
	Made of aluminum, self-adhesive, color petrol		A 8GD9 084	1 unit	0.020





7

ALPHA 630-DIN Floor-Mounted Distribution Boards

Accessories

Selection and ordering data




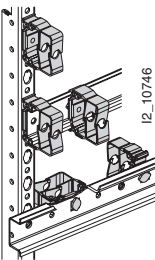
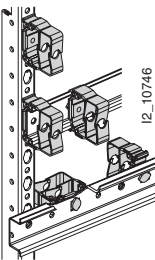
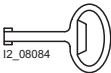
Assembly kits

	Height	Length	DT	Order No.	PS*	Weight per PU approx.	
	mm	mm				kg	
 <p>Busbar holder with matching support plate 5-pole, for direct mounting on longitudinal stays</p> <p>Busbar center-to-center distance 40 mm, for 12 × 5 (10) mm copper busbars and for mounting 3NP fuse switch disconnectors</p> <p>Busbar center-to-center distance 60 mm, for copper busbars 12 × 5 (10) mm, 20 × 5 (10) mm, 30 × 5 (10) mm</p> <p>3-pole Busbar center-to-center distance 60 mm, for copper busbars 12 × 5 (10) mm, 20 × 5 (10) mm, 30 × 5 (10) mm</p> <p>for 3NP fuse switch disconnectors</p> <p>for bar-mounting fuse bases</p>	300		A	8GK9 651-0KK00	1 unit	0.800	
	450		A	8GK9 671-0KK00	1 unit	0.800	
	300		A	8GK9 711-0KK00	1 unit	0.800	
	300		A	8GK9 711-0KK01	1 unit	0.800	
 <p>Copper busbars</p> <p>Copper cross-section 12 × 5 mm, current 250 A</p> <p>Copper cross-section 20 × 5 mm, current 320 A</p> <p>Copper cross-section 30 × 5 mm, current 450 A</p> <p>Copper cross-section 30 × 10 mm, current 630 A</p>		250 500 750 1000 1250	A A A A A	8GK9 731-0KK10 8GK9 731-0KK20 8GK9 731-0KK30 8GK9 731-0KK40 8GK9 731-0KK50	1 unit 1 unit 1 unit 1 unit 1 unit	0.100 0.330 0.500 0.660 0.830	
		250 500 750 1000 1250	A A A A A	8GK9 733-0KK10 8GK9 733-0KK20 8GK9 733-0KK30 8GK9 733-0KK40 8GK9 733-0KK50	1 unit 1 unit 1 unit 1 unit 1 unit	0.290 0.570 0.850 1.120 1.470	
		250 500 750 1000 1250	A A A A A	8GK9 735-0KK10 8GK9 735-0KK20 8GK9 735-0KK30 8GK9 735-0KK40 8GK9 735-0KK50	1 unit 1 unit 1 unit 1 unit 1 unit	0.400 0.750 1.460 2.170 2.880	
		250 500 750 1000 1250	A A A A A	8GK9 736-0KK10 8GK9 736-0KK20 8GK9 736-0KK30 8GK9 736-0KK40 8GK9 736-0KK50	1 unit 1 unit 1 unit 1 unit 1 unit	0.750 1.720 2.600 3.400 4.600	
	8GK9 910-0KK30			A	8GK9 910-0KK30	1 set	0.200
	 <p>N/PE bar</p> <p>for mounting on longitudinal stays, with 2 × 29 clamping points, 16 mm², length 250 mm</p>			A	8GK9 910-0KK10	1 unit	0.320
		8GK9 910-0KK10					
	 <p>Terminals for round conductors</p> <p>Bar thickness 5 mm</p> <p>Bar thickness 10 mm</p>		Conductor cross-section in mm ²				
			1.5 ... 16	▶	8US19 21-2AA00	100 units	0.021
			1.5 ... 35	▶	8US19 21-2AB00	50 units	0.046
			16 ... 70	▶	8US19 21-2AD00	50 units	0.072
			16 ... 120	▶	8US19 21-2AC00	50 units	0.107
			1.5 ... 16	▶	8US19 21-2BA00	100 units	0.022
			1.5 ... 35	▶	8US19 21-2BB00	50 units	0.048
			16 ... 70	▶	8US19 21-2BD00	50 units	0.074
			16 ... 120	▶	8US19 21-2BC00	50 units	0.109
				8GK9 920-0KK24	1 set		

* This quantity or a multiple thereof can be ordered.

ALPHA 630-DIN Floor-Mounted Distribution Boards

Accessories



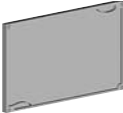


Height	Height	Width	DT	Order No.	PS*	Weight per PU approx.	
mm	mm	mm				kg	
 <p>Partitions for visual and spatial separation of different potentials, plastic material</p>	vertical	300	A	8GK9 301-2KK01	1 unit	0.150	
		450	A	8GK9 301-3KK01	1 unit	0.225	
	horizontal		250	A	8GK9 103-0KK10	1 unit	0.200
			500	A	8GK9 103-0KK20	1 unit	0.400
			750	A	8GK9 103-0KK30	1 unit	0.600
	 <p>Mounting plates, cabinet height with fixing screws, sendzimir-galvanized sheet steel, for mounting on longitudinal stays, no covers possible</p>	1800	250	A	8GK9 533-0KK10	1 unit	7.200
		500	A	8GK9 533-0KK20	1 unit	14.400	
		750	A	8GK9 533-0KK30	1 unit	21.600	
		1000	A	8GK9 533-0KK40	1 unit	28.800	
		1250	A	8GK9 533-0KK50	1 unit	36.000	
 <p>Blanking strips color RAL 7035 (light gray) for 12 MW (1 MW = 18 mm)</p>			A	8GK9 910-0KK00	1 unit	0.030	
	Length 1 m without predetermined breaking point, for cutting to length			A	8GK9 910-0KK01	1 unit	0.500
 <p>Connecting set, IP55 for mounting enclosures side by side Screws, washers, nuts and 10 m roll of sealing strip</p>			A	8GK9 920-0KK31	1 unit	0.500	
 <p>Wiring clips for standard mounting rail (1 set = 10 units)</p>			A	8GK9 910-1KK80	1 set	0.800	
 <p>Spare key for double-bit locking</p>			A	8GD9 290	1 unit	0.055	

7

ALPHA 630-DIN Floor-Mounted Distribution Boards

Accessories

Selection and ordering data

Assembly kits (external dimensions)			DT	Order No.	PS*	Weight per PU approx. kg
Height mm	Width mm					
closed						
75	250		A	8GK9 601-0KK10	1 set	1.000
150	250		A	8GK9 601-1KK10	1 set	1.300
	500		A	8GK9 601-1KK20	1 set	7.000
	750		A	8GK9 601-1KK30	1 set	8.500
300	250		A	8GK9 601-2KK10	1 set	2.600
	500		A	8GK9 601-2KK20	1 set	13.000
	750		A	8GK9 601-2KK30	1 set	14.500
450	250		A	8GK9 601-3KK10	1 set	3.900
	500		A	8GK9 601-3KK20	1 set	7.800
	750		A	8GK9 601-3KK30	1 set	20.500
600	250		A	8GK9 601-4KK10	1 set	5.200
	500		A	8GK9 601-4KK20	1 set	24.000
	750		A	8GK9 601-4KK30	1 set	26.500





* This quantity or a multiple thereof can be ordered.

ALPHA 630-DIN Floor-Mounted Distribution Boards


Accessories

Selection and ordering data

Assembly kits

Front covers (external dimensions)		Rows/MW	DT	Order No.	PS*	Weight per PU approx. kg	DT	Row spacing 125 mm		PS*	Weight per PU approx. kg
Height mm	Width mm							Order No.	Order No.		
with cutout											
150	250		1/24	A	8GK9 601-1KK11	1 set	1.100		–		
	500		2/24	A	8GK9 601-1KK21	1 set	3.800		–		
	750		3/24	A	8GK9 601-1KK31	1 set	5.500		–		
300	250		2/24	A	8GK9 601-2KK11	1 set	2.200	A	8GK9 601-2KK12	1 set	2.200
	500		4/24	A	8GK9 601-2KK21	1 set	5.900	A	8GK9 601-2KK22	1 set	5.900
	750		6/24	A	8GK9 601-2KK31	1 set	8.500		–		
450	250		3/24	A	8GK9 601-3KK11	1 set	3.300	A	8GK9 601-3KK12	1 set	3.300
	500		6/24	A	8GK9 601-3KK21	1 set	8.000	A	8GK9 601-3KK22	1 set	8.000
	750		9/24	A	8GK9 601-3KK31	1 set	11.500		–		
600	250		4/24	A	8GK9 601-4KK11	1 set	4.400	A	8GK9 601-4KK12	1 set	4.400
	500		8/24	A	8GK9 601-4KK21	1 set	10.100	A	8GK9 601-4KK22	1 set	10.100
	750		12/24	A	8GK9 601-4KK31	1 set	14.500		–		

Selection and ordering data

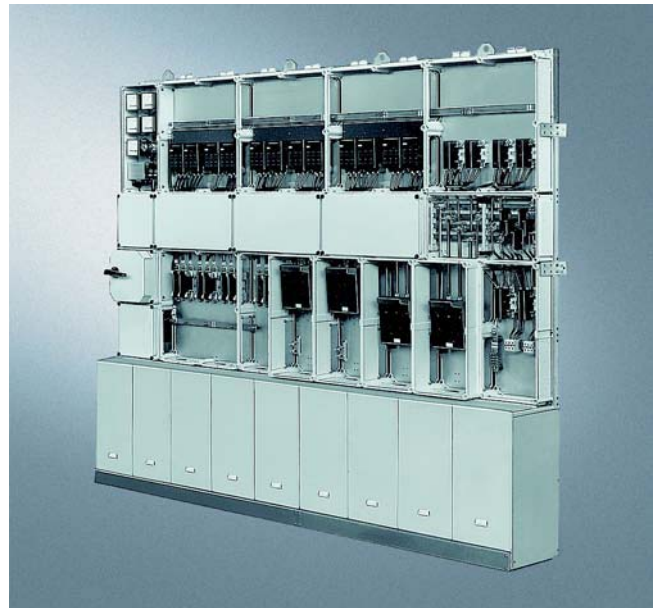
	Width mm	DT	Order No.	PS*	Weight per PU approx. kg
Support for unequipped section cover					
Plastic material					
		A	8GK9 910-0KK31	1 set	2.000
		A	8GK9 910-0KK24	1 set	1.000
15 mm standard mounting rail					
	250	A	8GK9 910-1KK10	1 set	1.800
	500	A	8GK9 910-1KK20	1 set	3.600
	750	A	8GK9 910-1KK30	1 set	5.400
	1000	A	8GK9 910-1KK40	1 set	7.200
	1250	A	8GK9 910-1KK50	1 set	9.600
Extra-deep bracket					
for recessed mounting of standard mounting rails (1 set = 2 units)					
		A	8GK9 910-0KK34	1 set	0.050
Holder for 15 mm standard mounting rail on longitudinal stay					
designed for support, long version (1 set = 10 units)					
		A	8GK9 910-1KK81	1 set	1.000

SENTRIC HP Molded-Plastic Distribution System

General data

Overview

The SENTRIC HP molded-plastic distribution system is a modular system for low-voltage small distribution boards, control panels and power distribution boards.



SENTRIC HP distribution board with support rack and cable space cover

Benefits

High-quality materials of the enclosures fulfill all the common demands made of such systems in an ideal way. These include:

- Protective insulation
- Corrosion resistance
- Mechanical strength
- Easy to work with
- Temperature resistance
- Free of maintenance
- Flame retardant, self-extinguishing

- Halogen-free (thus preventing consequential damages resulting from fire).
- Low weight of components.

Protective insulation

All enclosure parts and operating mechanisms are constructed so that they fulfill the conditions of the protective measure "total insulation" according to DIN VDE 0100, Part 410, when they are closed during operation. Enclosure fixings are situated outside the device installation space.

Area of application

It can be installed in all industrial plants, power stations, in large public or private buildings and in public utilities as well as in office buildings and residential buildings.

The components of the SENTRIC HP distribution system fulfill the requirements specified for type-tested low-voltage switchgear assemblies (TTA) according to EN 60439-1/DIN VDE 0660 Part 500. The enclosure corresponds to the protective measure "total insulation" according to DIN VDE 0100.

Specifications

DIN VDE 0660 Part 500

Specifications for type-tested low-voltage switchgear assemblies (TTA).

DIN VDE 0110

Specifications for the rating of creepage distances and clearances of electrical equipment.

IEC 60439-1

Factory-built switchgear assemblies for low voltage.

DIN VDE 0660 Part 107

Specifications for low-voltage switching devices.

DIN VDE 0100

Specifications for the erection of power installations with rated voltages up to 1000 V.

Statement of conformity

Herewith is stated that the components and distribution boards conform to the safety requirements for low-voltage equipment as laid down in the EEC Directive of February 19, 1973.

Special tests

Fire tests for equipment used in mining are performed by the "Versuchsgrube Tremonia", Dortmund, Germany.

Shock tests for equipment used in protective rooms are performed by the "Bundesamt für Zivilschutz", Bonn, Germany, regulation category RK 1.0/10 to safety level "A", Certificate of use 036 /95.

Earthquake tests are performed by the "IAB", Ottobrunn, Germany. Test for the use in EX-Zone 2 (special versions).

The enclosure is **UL certified**.

SENTRIC HP Molded-Plastic Distribution System

General data

Installation conditions

Installation	Climatic conditions according to DIN 50010	Special operating and ambient conditions
Indoor installation No additional measures required.	An indoor environment is an environment in rooms that are designed such that objects are largely separated from the direct influence of an open-air climate.	If the operating and ambient conditions differ from the standard conditions to DIN VDE 0660 Part 500, Item 6.1, appropriate measures must be taken to protect and maintain the operating capability of the switchgear and controlgear assembly for "Special operating and ambient conditions" according to Item 6.2 (mechanical protection, ventilation, indoor heating, breathers etc.).
External installation Measures: e.g. protected installation or protective roof, if appropriate with additional walls and door (protective cabinet).	An external environment is an environment in rooms that are designed such that objects are protected against direct sunlight and precipitation and possibly against wind, but otherwise are exposed to an open-air climate.	
Outdoor installation Only permissible with measures as for external installation.	An open-air climate is an environment that affects objects in the open air.	

Conversion from Pg to metric screwed glands

A new possibility of using metric screwed glands was tested for the SENTRIC HP molded-plastic distribution system. The result of this test showed that the Pg openings listed in the following table are also suitable for the use of metric screwed glands. Metric screwed glands with lock nut are used. Corresponding sealing washers are used in order to ensure degree of protection IP65.

The values for the tested conversions from Pg to metric screwed glands are shown in the following table.

Pg	Drilling diameter mm	Metric thread
13.5	20.4	M20
16	22.5	M22
21	28.3	M28
29	37	M36
36	47	M46
42	54	M52
49	59.3	M58

Design

The distribution system consists of 5 enclosure sizes with a basic dimension of 307 mm.

The enclosures have removable knockouts for flange openings and cable entries. They can be used for distributed as well as for single installation.

Non-transparent or transparent covers are available (size 2.5 only transparent).

The covers are fitted with quick-release locks which require a tool for opening. They also can be equipped with locks for manual operation as well as with screwed locks.

The internal mounting depth of the enclosures is 147 mm. For enclosure size 2 additional covers are available for mounting

depth 212 mm; for enclosure size 2.5 a transparent cover is available for mounting depth 185 mm.

The mounting depth of enclosure sizes 3 and 4 can be extended by means of an intermediate frame. Several frames can be used. Each frame increases the mounting depth by 92.5 mm.

Installation conditions under various climatic conditions, "Application – Installation conditions". Appropriate measures are to be taken (e.g. ventilation, indoor heating) for installation in rooms with high air humidity and heavily varying temperatures in order to exclude generation of harmful condensation water. Breathers must be installed when temperatures vary to a great extent.

Technical specifications

Rated current		A	250	400	630	1000	
Rated operating voltage U_e		V	AC 690, DC 600				
Rated insulation voltage U_i		V	AC 1000, DC 1200				
Molded plastic group I		acc. to DIN VDE 0110 Parts 1 and 2/01.89	600 ≤ CTI For the installed devices, the specifications listed in the following catalogs are applicable:				
Rated withstand voltage/pollution degree			8 kV/3				
Minimum air clearances		mm	8				
Minimum creepage distances		mm	12.5				
Rated current		Busbars Integrated devices Infeed	V A A	250 up to 800 up to 1800	400	630	1000
Degree of protection		acc. to EN 60529, DIN VDE 0470	IP65 (8HP1 520 cable entry plate and incoming feeder panel with additional measures)				
Color		Enclosure parts Transparent cover Cable space cover	RAL 7035, light gray Colorless RAL 7035, light gray				
Ambient temperature			°C	-40 ... +55			
Busbars							
Rated current		A	250	400	630	1000	

SENTRIC HP Molded-Plastic Distribution System

General data

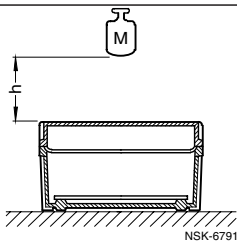
Rated current		A	250	400	630	1000
Bar dimensions	Main conductor	mm	12 × 5	20 × 8	2 × 20 × 8	2 × 30 × 10
	L1, L2, L3 N and PE bar	mm	12 × 5	20 × 8	20 × 8	30 × 10
Infeed	Single-sided	A	250	400	630	1000
	Centered	A	400	800	1000	1800
Short-circuit strength of the busbar						
Rated current		A	250	400	630	1000
Max. spacing of busbar holders	307 mm I_{th} (1 s)	kA	10	40	10	40
	307 mm I_s	kA	40	70	20	70
	614 mm I_{th} (1 s)	kA	10	70	30	70
	614 mm I_s	kA	40	80	30	60

Characteristics

	Test acc. to	Unit	Enclosure bottom parts, opaque cover, cover plates	Transparent cover	Cable entry plate, cover lock
Material			Glass-fiber reinforced polyester	Polycarbonate/Makrolon	PBTP-GV
Electrical characteristics					
Surface resistance	DIN 53482	Ω	$>10^{12}$	$>10^{15}$	$>10^{13}$
Tracking resistance	DIN 53480	Level	KA 3c	kA1	KB 225
Specific insulation resistance	DIN 53482	Ω/cm	$>10^{14}$	$>10^{16}$	$>10^{16}$
Physical characteristics					
Density	DIN 53479/B	g/cm^3	1.7	1.2	1.37
Water absorption	DIN 53495/C	%	0.20	0.15	0.45
Temperature resistance					
Flammability	DIN VDE 0304/3	$^{\circ}C$	BH2<10 mm	BH2<30mm	BH2<30 mm
Continuous operating temperature			120	115	120
Mechanical characteristics					
Bending strength	DIN 53452	N/mm^2	120	90	140
Notched bar impact strength	DIN 53453	kJ/m^2	40	>25	–
Impact strength	DIN 53453	kJ/m^2	50	not broken	45
Chemical resistance					
Acid (weak)			resistant	resistant	resistant
Alkali (weak)			resistant	conditionally resistant	conditionally resistant
Alcohol			resistant	resistant	resistant
Gasoline			resistant	resistant	resistant
Benzene			resistant	use polyester cover	resistant
Grease and oil			resistant	conditionally resistant	resistant
Chlorinated hydrocarbons			resistant	use polyester cover	resistant

Impact strength according to Belgian standard NBN C20-001 and French standard NF C20-010






Code	Test values		Enclosure bottom part	Cover
	M kg	h m		
IP65 7	1.5	0.4	8HP1 101 8HP1 102	8HP1 201 8HP1 202/8HP1 212
IP65 8	5	0.2	8HP1 103 8HP1 104	8HP1 203 8HP1 204
IP65 10	15	0.235	8HP1 101 8HP1 102 8HP1 103 8HP1 104	8HP1 221 8HP1 222 8HP1 223 8HP1 224
IP65 11	15	0.4	8HP1 102 8HP1 107	8HP1 232 8HP1 247



SENTRIC HP Molded-Plastic Distribution System

Single enclosures

Selection and ordering data

Design	Enclosure size	Mounting depth	DT	Order No.	PS*	Weight per PU approx.	
		mm				kg	
Empty enclosures, complete							
<ul style="list-style-type: none"> All empty enclosures are equipped with metal mounting plates. The quick-release locks for the covers are opened with a tool and closed by hand. The enclosures have removable knockouts for flange openings and cable entries. 							
	with clear glass cover						
		1	147	B	8HP2 021	1 unit	1.500
		2	147	B	8HP2 022	1 unit	2.600
		2	212	B	8HP2 012	1 unit	2.900
		2	212	B	8HP2 032	1 unit	2.700
		2.5	147	B	8HP2 027	1 unit	3.600
		2.5	185	B	8HP2 047	1 unit	3.800
		3	147	B	8HP2 023	1 unit	4.700
		4	147	B	8HP2 024	1 unit	9.800
		with opaque cover					
		1	147	B	8HP2 001	1 unit	1.500
		2	147	B	8HP2 002	1 unit	2.600
		3	147	B	8HP2 003	1 unit	5.100
		4	147	B	8HP2 004	1 unit	9.900
Coupling frames							
for enlarging the mounting depth of empty enclosures by 92.5 mm. Several coupling frames can be mounted one on the other.							
		3	92.5	B	8HP1 283	1 unit	1.100
		4	92.5	B	8HP1 284	1 unit	1.700
Individual components for empty enclosures							
	Enclosure lower part						
		1	107	B	8HP1 101	1 unit	0.600
		2	107	B	8HP1 102	1 unit	0.900
		2.5	107	B	8HP1 107	1 unit	1.300
		3	107	B	8HP1 103	1 unit	1.500
	4	107	B	8HP1 104	1 unit	2.600	
	Transparent cover						
		1	40	B	8HP1 221	1 unit	0.300
		2	40	B	8HP1 222	1 unit	0.500
		2	105	B	8HP1 232	1 unit	0.700
		2.5	40	B	8HP1 227	1 unit	0.700
		2.5	78	B	8HP1 247	1 unit	0.900
		3	40	B	8HP1 223	1 unit	0.800
		4	40	B	8HP1 224	1 unit	2.100
	Opaque cover						
		1	40	B	8HP1 201	1 unit	0.500
		2	40	B	8HP1 202	1 unit	0.600
		2	105	B	8HP1 212	1 unit	0.900
		3	40	B	8HP1 203	1 unit	1.300
	4	40	B	8HP1 204	1 unit	2.200	
Mounting plate (metal)							
		1		B	8HP6 301	1 unit	0.500
		2		B	8HP6 302	1 unit	1.100
		2.5		B	8HP6 307	1 unit	1.600
		3		B	8HP6 303	1 unit	2.400
	4		B	8HP6 304	1 unit	5.100	

SENTRIC HP Molded-Plastic Distribution System

Complete enclosures

Design	Enclosure size	Possible complement	DT	Order No.	PS*	Weight per PU approx. kg
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Enclosures for modular installation devices

- Assembly kits including cover plates.
- The possible complement is specified in modular widths (MW = 18 mm).
- PE and N outgoing feeders: one each of PE and N bar, 6 × 6 mm, each with 1 incoming terminal 16 mm² for size 1 and 35 mm² for sizes 2 to 3.
- 8WA2 860 outgoing terminals must be ordered separately, see Accessories.

with transparent cover	1	1 × 11 MS	B	8HP2 501	1 unit	1.200
	2	2 × 14 MS	B	8HP2 532	1 unit	2.000
	2.5	3 × 14 MS	B	8HP2 523	1 unit	3.000
	3	4 × 14 MS	B	8HP2 534	1 unit	3.500
with opaque cover	1	1 × 11 MS	B	8HP2 511	1 unit	1.300
	2	2 × 14 MS	B	8HP2 542	1 unit	2.200
	3	4 × 14 MS	B	8HP2 544	1 unit	3.900
with cover and operating flaps	1	1 × 11 MS	B	8HP2 521	1 unit	1.400
	2	2 × 14 MS	B	8HP2 552	1 unit	2.400
	3	4 × 14 MS	B	8HP2 554	1 unit	4.200
cover with operating flaps, opaque	2	1 operating flap	B	8HP1 351	1 unit	0.600
	3	3 operating flaps	B	8HP1 353	1 unit	1.300

Enclosures with NEOZED screw-in fuse links

- Factory-assembled assembly kits with NEOZED bases including cover plates
- The bars can be equipped with further terminals from the accessories.

25 A (E27)	2	8 × 3 × 63 A	A	8HP2 157	1 unit	4.000
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Enclosures with DIAZED screw-in fuse links


- Factory-assembled assembly kits with DIAZED bases including cover plates
- PE and N outgoing feeders: one rail-mounting terminal each on copper bar, 6 × 6 mm, for each 3-pole circuit 25 A/4 mm² (8WA2 860), 63 A/16 mm² (8WA2 861).
- The bars can be equipped with further terminals from the accessories.

25 A (E27)	1	2 × 3 × 25 A	B	8HP2 122	1 unit	1.800
	2	4 × 3 × 25 A	B	8HP2 124	1 unit	3.100
	2	5 × 3 × 25 A	B	8HP2 125	1 unit	3.400
	2.5	7 × 3 × 25 A	B	8HP2 126	1 unit	4.700
	3	8 × 3 × 25 A	B	8HP2 128	1 unit	5.700
	3	10 × 3 × 25 A	B	8HP2 130	1 unit	6.100
63 A (E33)	1	2 × 3 × 63 A	B	8HP2 131	1 unit	2.100
	2	4 × 3 × 63 A	B	8HP2 133	1 unit	3.800
	2.5	6 × 3 × 63 A	B	8HP2 135	1 unit	5.200
	3	8 × 3 × 63 A	B	8HP2 137	1 unit	7.000
25 A (E27) and 63 A (E33)	2	2 × 3 × 25 A and 3 × 3 × 63 A	B	8HP2 145	1 unit	3.800
		5 × 3 × 25 A and 2 × 3 × 63 A	B	8HP2 152	1 unit	5.100
	2.5	5 × 3 × 25 A and 2 × 3 × 63 A	B	8HP2 153	1 unit	4.800
		4 × 3 × 63 A and 6 × 3 × 25 A	B	8HP2 146	1 unit	6.800
	3	4 × 3 × 63 A and 7 × 3 × 25 A	B	8HP2 147	1 unit	6.800
		3 × 3 × 63 A and 2 × 3 × 25 A	B	8HP2 148	1 unit	7.400
		8 × 3 × 63 A				



SENTRIC HP Molded-Plastic Distribution System

Complete enclosures

Enclosure size	LV HRC fuse bases	Rated current I_n	DT	Order No.	PS*	Weight per PU approx.	
		A				kg	
Enclosures with LV HRC fuse bases							
<ul style="list-style-type: none"> All integrated LV HRC fuse bases (AC 660 V, DC 440 V) up to 250 A with integrated PEN terminal. From 400 A without N and PE terminal. Terminals: <ul style="list-style-type: none"> NH 00 via terminal clamp, NH 1 and NH 2 via M10 terminal screws, NH 3 via M12 terminal screws. 							
	with transparent cover						
	1	3 × NH 00 ¹⁾	160	B	8HP2 300	1 unit 2.400	
	2	3 × NH 00 ¹⁾	160	B	8HP2 301	1 unit 3.500	
		6 × NH 00 ²⁾	160	B	8HP2 302	1 unit 4.300	
	2	3 × NH 1 ³⁾	250	B	8HP2 311	1 unit 4.400	
	2	3 × NH 2 ⁴⁾	400	B	8HP2 312	1 unit 5.500	
	2	3 × NH 3 ⁴⁾	630	B	8HP2 314	1 unit 7.200	
	2.5	3 × NH 1 ³⁾	250	B	8HP2 306	1 unit 5.000	
		3 × NH 2 ⁴⁾	400	B	8HP2 307	1 unit 6.000	
		3 × NH 3 ⁴⁾	630	B	8HP2 318	1 unit 5.500	
	3	3 × NH 2 ⁴⁾	400	B	8HP2 313	1 unit 6.500	
		3 × NH 3 ⁴⁾	630	B	8HP2 315	1 unit 18.300	
	with opaque cover						
	1	3 × NH 00 ¹⁾	160	B	8HP2 320	1 unit 2.500	
	2	3 × NH 00 ¹⁾	160	B	8HP2 321	1 unit 3.700	
	6 × NH 00 ²⁾	160	B	8HP2 322	1 unit 4.500		
2	3 × NH 1 ³⁾	250	B	8HP2 331	1 unit 4.600		
	3 × NH 2 ⁴⁾	400	B	8HP2 332	1 unit 5.700		
	3 × NH 3 ⁴⁾	630	B	8HP2 334	1 unit 7.400		
3	3 × NH 2 ⁴⁾	400	B	8HP2 333	1 unit 6.900		
	3 × NH 3 ⁴⁾	630	B	8HP2 335	1 unit 18.800		

- PEN terminal up to 35 mm², 1 × 8JH4 04 fitted.
For the 5th conductor an additional 8JH4 04 terminal can be fitted.
- PEN terminal up to 35 mm², 1 × 8JH4 043 fitted.
For the 5th conductor an additional 8JH4 043 terminal can be fitted.
- PEN terminal up to 70 mm², 1 × 8JH4 01 fitted.
For the 5th conductor an additional 8JH4 01 terminal can be fitted.
- N/PE conductors must be passed through uncut.

Meter enclosures



Enclosure size	Mounting depth	DT	Order No.	PS*	Weight per PU approx.
	mm				kg
Meter enclosures					
<ul style="list-style-type: none"> With meter support plate or meter mounting rails (size 2) with meter fixing screws Sealing cap can be ordered as an accessory Distance bolts (15 mm) for raising the meter support plates (when cables are routed underneath) are included in the scope of supply. 					
2	137	B	8HP2 622	1 unit	1.700
2	202	B	8HP2 632	1 unit	1.800
2.5	145	B	8HP2 627	1 unit	2.300
2.5	183	B	8HP2 647	1 unit	2.300
2.5 ¹⁾	183	C	8HP2 657	1 unit	2.400
3	145	B	8HP2 623	1 unit	2.400
3	237	B	8HP2 653	1 unit	4.000
4	145	B	8HP2 624	1 unit	4.900
4	237	B	8HP2 654	1 unit	7.600



- With hinged window and reach-through guard, lockable with padlock

SENTRIC HP Molded-Plastic Distribution System


Infeed enclosures

Design	Enclosure size	LV HRC fuse bases	Rated current I_n	DT	Order No.	PS*	Weight per PU approx.
			A				kg
Enclosures with fuse switch disconnectors							
<ul style="list-style-type: none"> • Cover transparent with quick-release screws. • Terminals: <ul style="list-style-type: none"> - 3NP40 1: pillar terminal, - 3NP4.: cable lug connection, - 3NP52: terminal clamp, - 3NP53: M10 terminal screws. 							
	with transparent cover	1	1 x NH 000 ¹⁾	160	B	8HP2 437	1 unit 2.100
		1	1 x NH 00 ²⁾	160	B	8HP2 438	1 unit 2.650
		2	2 x NH 000 ¹⁾	160	B	8HP2 440	1 unit 3.200
		2	3 x NH 000 ¹⁾	160	B	8HP2 441	1 unit 3.700
		2	1 x NH 00 ²⁾	160	B	8HP2 442	1 unit 3.800
		2	1 x NH 00 ²⁾	160	B	8HP2 405	1 unit 4.200
		2	2 x NH 00 ²⁾	160	B	8HP2 443	1 unit 5.150
		2	1 x NH 1 ³⁾	250	C	8HP2 444	1 unit 6.400
		2	1 x NH 1 ³⁾	250	C	8HP2 410	1 unit 7.600
		2	1 x NH 2 ⁴⁾	400	C	8HP2 414	1 unit 8.600
		2.5	1 x NH 00 ²⁾	160	B	8HP2 445	1 unit 4.500
		2.5	1 x NH 00 ²⁾	160	B	8HP2 426	1 unit 4.800
		2.5	2 x NH 00 ²⁾	160	B	8HP2 446	1 unit 5.700
		2.5	1 x NH 1 ³⁾	250	C	8HP2 447	1 unit 7.000
		3	1 x NH 1 ⁵⁾	250	B	8HP2 448	1 unit 8.700
		3	1 x NH 1 ⁵⁾	250	C	8HP2 411	1 unit 9.400
	3	1 x NH 1 ⁵⁾	250	C	8HP2 412	1 unit 10.700	
	3	1 x NH 2 ⁴⁾	400	C	8HP2 415	1 unit 10.400	
	3	1 x NH 2 ⁴⁾	400	C	8HP2 416	1 unit 11.700	
	3	1 x NH 3 ⁵⁾	630	C	8HP2 417	1 unit 13.000	
	molded-plastic masking frame	1	for 8HP2 437		B	8HP6 431	1 unit 0.221
		1	for 8HP2 438		B	8HP6 422	1 unit 0.224
		2	for 8HP2 440		B	8HP6 432	1 unit 0.465
		2	for 8HP2 441		B	8HP6 432	1 unit 0.465
		2	for 8HP2 442		B	8HP6 423	1 unit 0.230
		2	for 8HP2 443		B	8HP6 424	1 unit 0.203
		2	for 8HP2 444		B	8HP6 427	1 unit 0.250
		2	for 8HP2 414		B	8HP6 406	1 unit 0.653
		2.5	for 8HP2 445		B	8HP6 423	1 unit 0.230
		2.5	for 8HP2 446		B	8HP6 424	1 unit 0.203
		2.5	for 8HP2 447		B	8HP6 427	1 unit 0.250
	3	for 8HP2 448		C	8HP6 428	1 unit 0.430	
	3	for 8HP2 415		B	8HP6 406	1 unit 0.653	

- 1) For a 4th and 5th conductor, 8WA1 205 terminals or 8GJ9 318-2 supports can be installed for 2 copper bars, 6 mm x 6 mm.
- 2) For a 4th and 5th conductor, 8WA1 205 terminals, 50 mm² can be installed.
- 3) Installation facility for 2 PEN terminals 8WA1 206, 95 mm²
- 4) N/PE conductors must be passed through uncut.
- 5) Installation facility for 8JK4 04 terminal.

SENTRIC HP Molded-Plastic Distribution System

Infeed enclosures

Design	Enclosure size	Switch disconnector	Rated current I_n	DT	Order No.	PS*	Weight per PU approx.
			A				kg
Main and EMERGENCY-STOP switches							
<ul style="list-style-type: none"> • Opaque cover with integrated switch disconnector as main control and EMERGENCY-STOP switch in the distribution board system 							
	Main control switch						
	Handle: black	2	3KA50 ¹⁾	63	B	8HP2 705	1 unit 4.330
	Display plate: light gray		3KA53 ²⁾	160	C	8HP2 714	1 unit 3.400
			3KA55 ³⁾	250	B	8HP2 732	1 unit 7.800
			3KA57 ⁴⁾	400	C	8HP2 716	1 unit 8.910
		3	3KE42 ⁵⁾	250	C	8HP2 733	1 unit 10.900
			3KE43 ⁶⁾	400	C	8HP2 735	1 unit 10.800
			3KE44 ⁷⁾	630	C	8HP2 736	1 unit 13.600
			3KE45 ⁷⁾	800	C	8HP2 738	1 unit 14.200
	EMERGENCY-STOP switch						
Handle: red	2	3KA50 ¹⁾	63	C	8HP2 742	1 unit 4.200	
Display plate: yellow		3KA53 ²⁾	160	B	8HP2 744	1 unit 5.450	
		3KA55 ³⁾	250	C	8HP2 752	1 unit 7.800	
		3KA57 ⁴⁾	400	C	8HP2 746	1 unit 7.480	
	3	3KE42 ⁵⁾	250	B	8HP2 753	1 unit 10.600	
		3KE43 ⁶⁾	400	B	8HP2 755	1 unit 10.900	
		3KE44 ⁷⁾	630	C	8HP2 756	1 unit 20.200	
		3KE45 ⁷⁾	800	C	8HP2 758	1 unit 14.300	
Enclosures with switch disconnector with fuses							
<ul style="list-style-type: none"> • Opaque cover • Switch disconnector with mounted LV HRC fuses • With motor switching capacity and disconnector characteristics, can be used as main control and EMERGENCY-STOP switch to DIN VDE 0113 • With integrated door-coupling rotary operating mechanism • Lockable with 3 padlocks. 							
Main control switch							
Handle: black	2	3KL50 ¹⁾	63	C	8HP2 710	1 unit 4.330	
Display plate: light gray		3KL52 ²⁾	125	C	8HP2 713	1 unit 5.320	
		3KL55 ⁴⁾	250	C	8HP2 715	1 unit 9.340	
EMERGENCY-STOP switch							
Handle: red	2	3KL50 ¹⁾	63	C	8HP2 741	1 unit 4.350	
Display plate: yellow		3KL52 ²⁾	125	C	8HP2 743	1 unit 5.320	
		3KL55 ⁴⁾	250	C	8HP2 745	1 unit 4.330	
Load transfer switches and parallel switches							
<ul style="list-style-type: none"> • To be assembled in the workshop from two 3KE switch disconnectors, an assembly kit and a size 4 enclosure • The switches must be connected using copper busbars or NYA cables • The changeover contact is supplied in the "break-before-make" version • If the "make-before-break" version is required, the order number must be supplemented with "-Z" and the desired version must be specified. 							
Consisting of:		enclosure		B	8HP1 104	1 unit 2.600	
and	cover			B	8HP1 204	1 unit 2.200	
and	coupling frame			B	2 x 8HP1 284	1 unit 1.700	
plus:	switch disconnectors	250 A (500 A) ⁸⁾		B	2 x 3KE42 30-0AA	1 unit 3.870	
or	switch disconnectors	400 A (800 A) ⁸⁾		B	2 x 3KE43 30-0AA	1 unit 3.870	
or	switch disconnectors	630 A (1260 A) ⁸⁾		B	2 x 3KE44 30-0AA	1 unit 6.910	
and	assembly kit with changeover operating mechanism			B	8HP5 458	1 unit 6.810	
or	assembly kit with shifting linkage for parallel switching			C	8HP5 457	1 unit 4.940	





- 1) 8WA1 205 terminal for 4th conductor installed. For the 5th conductor an identical terminal can be installed in addition.
- 2) 8WA1 206 terminal for 4th conductor installed. For the 5th conductor an identical terminal can be installed in addition.
- 3) 8JK4 01 terminal for 4th conductor installed. For the 5th conductor an identical terminal can be installed in addition.
- 4) 8JU1 201 terminal for 4th conductor installed. For the 5th conductor an identical terminal can be installed in addition.
- 5) 8JK4 01 terminal for 4th conductor installed. For the 5th conductor an identical terminal can be installed in addition.
- 6) 8JK4 04 terminal for 4th conductor installed.
- 7) 8JK4 06 terminal for 4th conductor installed.
- 8) Values in brackets apply to parallel switches. For thermal reasons the rated operating current is reduced to approximately 80 % of the rated nominal current.


SENTRIC HP Molded-Plastic Distribution System

Accessories

Selection and ordering data

Components for busbar systems







Designation	For Cu busbars		DT	Order No.	PS*	Weight per PU approx. kg
	mm × mm	Rated current of Cu busbars (85 °C) A				
Busbar adapters						
	Busbar adapter	12 × 5 and 2 × (12 × 5)	250 400	B	8HP1 701	1 unit 0.090
		20 × 8 and 2 × (20 × 8)	400 630	B	8HP1 704	1 unit 0.150
		2 × (30 × 10)	1000	B	8HP1 703	1 unit 0.220
	Retaining angle (1 set = 2 units) for fixing detached 8HP1 70 busbar holders. (in illustration alongside shown with integrated busbar holder)			B	8HP1 706	1 set 0.060
	Partition as end plate and barrier			B	8HP1 708	1 unit 0.200
	Connecting lug for holding brackets for detached busbar holders			B	8HP1 707	1 unit 0.005

Designation	Conductor cross-section (solid or stranded)		DT	Order No.	PS*	Weight per PU approx. kg
	1 busbar mm ²	2 busbars mm ²				
Incoming and outgoing terminals for 12 × 5 mm or 2 × (12 × 5) mm busbars						
	Connection terminals	1.5 ... 16 10 ... 35 16 ... 70 16 ... 120		▶	8US19 21-2AA00	100 units 0.021
				▶	8US19 21-2AB00	50 units 0.046
				▶	8US19 21-2AD00	50 units 0.072
				▶	8US19 21-2AC00	50 units 0.107
		1.5 ... 16	1.5 ... 16	▶	8US19 21-2BA00	100 units 0.022
			10 ... 35	▶	8US19 21-2BB00	50 units 0.048
			16 ... 70	▶	8US19 21-2BD00	50 units 0.074
			16 ... 120	▶	8US19 21-2BC00	50 units 0.109
		1.5 ... 16	–	A	8JH4 102	1 unit 0.010
		10 ... 35	–	A	8JH4 104	1 unit 0.030
	16 ... 70	16 ... 35	A	8JH4 105	1 unit 0.030	
	16 ... 95	16 ... 70	A	8JH4 106	1 unit 0.070	
	25 ... 120	25 ... 50	A	8JK3 061	1 unit 0.090	

* This quantity or a multiple thereof can be ordered.

SENTRIC HP Molded-Plastic Distribution System

Accessories


Designation	For busbars mm x mm	Conductors to be connected (solid or stranded) mm ²	Clamp- ing points	Conduc- tors per clamp- ing point	DT	Order No.	PS*	Weight per PU approx. kg	
Incoming and outgoing terminals for busbars 20 × 8 mm or 2 × (20 × 8) mm; 2 × (30 × 10) mm									
    	Terminals	20 × 8 or 2 × (20 × 8)	1.5 ... 10 mm ²	2	2	B	8JK3 113	1 unit	0.040
			10 ... 70 mm ²	2	1	B	8JK3 143	1 unit	0.110
			50 ... 240 mm ²	1	1	B	8JK3 171	1 unit	0.300
			50 ... 240 mm ²	1	2	B	8JK3 172	1 unit	0.420
		2 × (30 × 10)	10 to 70; on double bus- bars, divide the terminals alternately between the two bars in order to even the load			B	8JK3 544	1 unit	0.100
	Bolt-type screw terminals for cable lugs	2 × (30 × 10)	M12, up to 2 × 240 cable lug or bar connection			B	8HP1 724	1 unit	0.250


7

SENTRIC HP Molded-Plastic Distribution System

Accessories

Components for busbar systems

Designation	For busbars mm × mm	Remarks	DT	Order No.	PS*	Weight per PU approx. kg
Extension terminals						
	12 × 5	When using single busbars a copper connecting piece 12 × 5 mm or 20 × 8 mm must be made; when using 2 × Cu (20 × 8) mm the busbars overlap in the area of the connection point.	A	8JK3 201	1 set	0.100
	20 × 8 or 2 × (20 × 8)		B	8JK3 281	1 set	0.230
	2 × (30 × 10)		B	8HP1 728	1 unit	0.400

For busbars	Number	Cross-section	Busbar center-to-center distance mm	DT	Order No.	PS*	Weight per PU approx. kg
Busbar holder and holder for PE/N bars for free mounting, cover profile							
	1	6 × 6 mm	–	B	8JH4 230	1 unit	0.010
	1 for 35 mm standard mounting rail	6 × 6 mm	–	B	8HP6 601	1 unit	0.010
	2 × 1 for 35 mm standard mounting rail (1 pair)	6 × 6 mm	–	A	8GF9 318-2	1 unit	0.040
	2 × 1 can be screwed on (1 pair)	6 × 6 mm	–	A	8GF9 320-1	1 unit	0.040
	1 × 3 Outside fixing	12 × 5 to 30 × 10	60	A	8US19 23-2AA00	10 units	0.214
	Inside fixing		60	B	8US19 23-3AA00	10 units	0.200
Cover profile, 1000 mm long for 12 × 5 mm busbars							
Width 20 to 30 mm				C	8GR5 010	1 m	0.043
5 mm thick				A	8US19 22-2AA00	10 units	0.156
10 mm thick				A	8US19 22-2BA00	10 units	0.105

* This quantity or a multiple thereof can be ordered.



SENTRIC HP Molded-Plastic Distribution System

Accessories

Designation	For busbars	Conductor cross-section (solid or stranded)	DT	Order No.	PS*	Weight per PU approx. kg
	mm × mm	mm ²				
Incoming and outgoing terminals for busbars 6 × 6 mm, 16 × 3 mm¹⁾						
Connection terminals	6 × 6	1 ... 4	A	8WA2 860	1 unit	0.004
		1.5 ... 16	A	8WA2 861	1 unit	0.008
		2.5 ... 16	A	8JH4 112	1 unit	0.007
		16 ... 35	A	8JH4 114	1 unit	0.013
	16 × 3 ¹⁾	1.5 ... 16	A	8JH4 122	1 unit	0.012
		10 ... 35	A	8JH4 124	1 unit	0.024
		16 ... 50	A	8JH4 125	1 unit	0.030
		10 ... 70	B	8JK3 441	1 unit	0.060

Designation	Cross-section	DT	Order No.	PS*	Weight per PU approx. kg
	mm				
Copper busbar, approx. 2 m long (1 unit)					
Copper busbar In the case of busbar holders in cover plates, the length of the busbar is the total of the external enclosure dimensions plus 12 mm	6 × 6	B	8WC5 020	1 unit	0.640
	12 × 5	B	8WC5 023	1 unit	1.100
	20 × 5	B	8WC5 026	1 unit	1.780
	20 × 8	B	8WC5 027	1 unit	2.840
	20 × 10	B	8WC5 028	1 unit	3.200
	25 × 5	B	8WC5 031	1 unit	2.240
	30 × 5	B	8WC5 033	1 unit	2.680
	30 × 10	B	8WC5 034	1 unit	5.360
	40 × 5	B	8WC5 035	1 unit	3.560
	40 × 10	B	8WC5 036	1 unit	7.120
	50 × 5	B	8WC5 037	1 unit	4.460
	50 × 10	B	8WC5 038	1 unit	8.900
	60 × 10	B	8WC5 040	1 unit	10.700
	80 × 10	B	8WC5 041	1 unit	14.200
	100 × 10	B	8WC5 042	1 unit	17.800









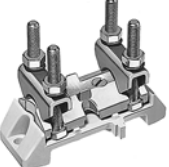
Designation	Cross-section	Length	DT	Order No.	PS*	Weight per PU approx. kg
	mm × mm					
Copper busbar (1 set = 5 bars)						
Copper busbar When the busbar holders are mounted in cover plates, the length of the busbars is equal to the total of the external dimensions of the busbar boxes plus 12 mm.	Cu 12 × 5	for 3 sections of each 307 mm	A	8HP1 783	1 set	2.500
		for 4 sections of each 307 mm	A	8HP1 784	1 set	3.300
		for 5 sections of each 307 mm	A	8HP1 785	1 set	3.900
		for 6 sections of each 307 mm	A	8HP1 786	1 set	4.900
		for 6 sections of each 307 mm	A	8HP1 786	1 set	4.900
	Cu 20 × 8	for 3 sections of each 307 mm	B	8HP1 793	1 set	6.620
		for 4 sections of each 307 mm	B	8HP1 794	1 set	8.800
		for 5 sections of each 307 mm	B	8HP1 795	1 set	11.000
		for 6 sections of each 307 mm	B	8HP1 796	1 set	13.100
		for 6 sections of each 307 mm	B	8HP1 796	1 set	13.100

Designation	For enclosure size	Notes	DT	Order No.	PS*	Weight per PU approx. kg
Busbar assembly kits 250 A, 40 mm center-to-center distance						
	2 4 × Cu (12 × 5) mm	– with 4 incoming terminals up to 95 mm ² and 4 outgoing terminals up to 16 mm ²	B	8HP1 790	1 unit	1.000
	3 4 × Cu (12 × 5) mm	– with 4 incoming terminals up to 95 mm ² and 8 outgoing terminals up to 16 mm ²	B	8HP1 791	1 unit	1.800

1) For bus-mounting bars and connection assembly kits in the case of DIAZED assembly kits.

SENTRIC HP Molded-Plastic Distribution System

Accessories

For conductor cross-section (solid or stranded) ¹⁾					Tightening torque Nm	DT	Order No.	PS*	Weight per PU approx. kg
Incoming leads		Outgoing leads							
Number	Cross-section ²⁾ mm ²	Number	Cross-section ²⁾ mm ²						
Base terminals, single-pole, insulated									
	2	4 ... 10	2	4 ... 10	2.0	B	8JH4 02	1 unit	0.030
	1	4 ... 35	1	4 ... 35	2.0	A	8JH4 04	1 unit	0.080
	1	4 ... 35	1	4 ... 35	2.0	A	8JH4 043	1 unit	0.150
	1	4 ... 35	1	4 ... 35	2.0	A	8JH4 044	1 unit	0.200
	1	up to 120 cable lug, M10	1	1 ... 120	10.0	B	8JU1 201	1 unit	0.277
	1	6 ... 70	1	6 ... 70	6.0	B	8JK4 01	1 unit	0.110
	1 or 2	35 ... 150 6 ... 50	1 or 2	35 ... 150 6 ... 50	10.0	D	8JK4 04	1 unit	0.250
	2	50 ... 240	2	50 ... 185	6.0	B	8JK4 06	1 unit	0.680
	1	50 ... 240	1	50 ... 240	6.0	B	8JK4 061	1 unit	0.480
Molded-plastic partition for 8JK4 06 and 8JK4 061 terminals						B	8JK4 100	1 unit	0.010

1) In the case of finely stranded and extra finely stranded conductors, the maximum cross-section must be reduced in some cases by up to two steps. If necessary the conductors must be protected with end sleeves or similar against fanning out.
When connecting Al conductors, commercially available Al-Cu adapter pieces or clamping connections must be used.


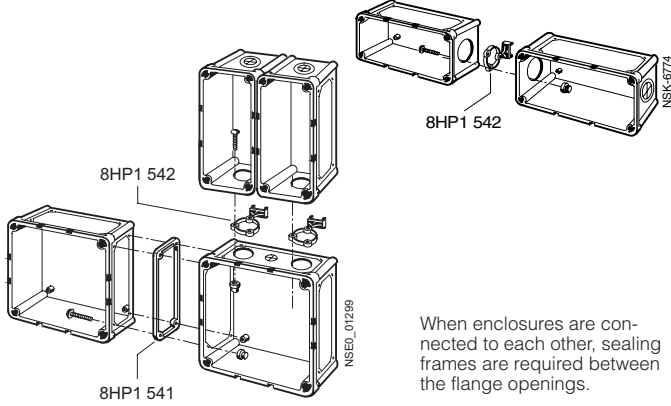

2) When using different cross-sections, the larger conductor must be laid below the other.

* This quantity or a multiple thereof can be ordered.

SENTRIC HP Molded-Plastic Distribution System

Accessories

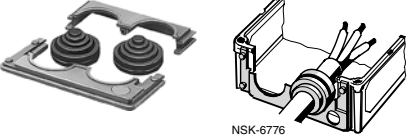


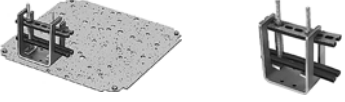
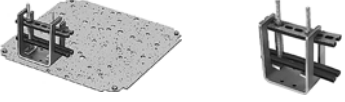
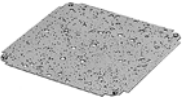
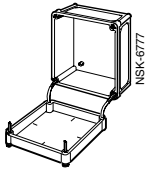
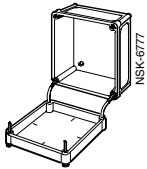
Enclosure accessories

Designation	DT	Order No.	PS*	Weight per PU approx. kg																																																
Sealing frame																																																				
	Sealing frame																																																			
	Including locking screws and nuts																																																			
	Can be used on the narrow side of size 1 enclosures																																																			
	B	8HP1 541	1 unit	0.110																																																
	B	8HP1 542	1 unit	0.070																																																
 <p>When enclosures are connected to each other, sealing frames are required between the flange openings.</p>																																																				
Cover plates including fixing screws and seals ¹⁾																																																				
If enclosure knockouts do not meet requirements, the end cover plates with or without knockouts mentioned here can be mounted.																																																				
	Without knockouts																																																			
	B	8HP1 500	1 unit	0.170																																																
	With knockouts																																																			
	B	8HP1 511	1 unit	0.170																																																
	B	8HP1 512	1 unit	0.170																																																
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<table border="1"> <thead> <tr> <th>Designation</th> <th>For cables mm Ø</th> <th>DT</th> <th>Order No.</th> <th>PS*</th> <th>Weight per PU approx. kg</th> </tr> </thead> <tbody> <tr> <td colspan="6">Cable entries</td> </tr> <tr> <td colspan="6">Rubber cable gland</td> </tr> <tr> <td colspan="6">For insertion in knockouts 38 mm Ø corresponding to Pg 29. Can also be used as blanking plug.</td> </tr> <tr> <td></td> <td>for 1 cable with 12 to 29 mm Ø</td> <td>B</td> <td>8HP1 805</td> <td>1 unit</td> <td>0.012</td> </tr> <tr> <td></td> <td>for 2 cables with 6 to 15 mm Ø</td> <td>B</td> <td>8HP1 806</td> <td>1 unit</td> <td>0.012</td> </tr> <tr> <td></td> <td>for 3 cables with 4 to 12.5 mm Ø</td> <td>B</td> <td>8HP1 807</td> <td>1 unit</td> <td>0.012</td> </tr> <tr> <td></td> <td>for 4 cables with 4 to 12 mm Ø</td> <td>B</td> <td>8HP1 808</td> <td>1 unit</td> <td>0.012</td> </tr> </tbody> </table>					Designation	For cables mm Ø	DT	Order No.	PS*	Weight per PU approx. kg	Cable entries						Rubber cable gland						For insertion in knockouts 38 mm Ø corresponding to Pg 29. Can also be used as blanking plug.							for 1 cable with 12 to 29 mm Ø	B	8HP1 805	1 unit	0.012		for 2 cables with 6 to 15 mm Ø	B	8HP1 806	1 unit	0.012		for 3 cables with 4 to 12.5 mm Ø	B	8HP1 807	1 unit	0.012		for 4 cables with 4 to 12 mm Ø	B	8HP1 808	1 unit	0.012
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	for 4 cables with 4 to 12 mm Ø	B	8HP1 808	1 unit	0.012																																															

1) For conversion from Pg to metric screwed glands, see "General data – Area of application".

SENTRIC HP Molded-Plastic Distribution System

Accessories

Designation	DT	Order No.	PS*	Weight
				per PU approx. kg
 <p>Cable entry plate including mounting parts, seal, 2 8HC6 900 rubber cable glands for cables from 14 to 65 mm Ø and a knockout for Pg 21 cable gland</p>	B	8HP1 520	1 unit	0.350
 <p>Protective cap for cables from entries on the above-mentioned cable entry plate. Poke-proof!</p>	B	8HP1 525	1 unit	0.030
 <p>Rubber cable gland for cable 14 to 65 mm Ø (as spare part for cable entry plate)</p>	B	8HC6 900	1 unit	0.050
 <p>Strain relief cleat on mounting plate size 2, for enclosures sizes 2 to 4, complete for one cable, installation facility for 2nd strain relief cleat for double cable</p>	B	8HP6 322	1 unit	1.550
 <p>Strain relief for individual mounting and for 8HP6 322</p>	B	8HP1 530	1 unit	0.380
 <p>Mounting plate Size 2, for terminal mounting in enclosures sizes 2 to 4 B for max. five 8JK4 04, 8JK4 06 or 8JK4 061 terminals, for terminals see Page 7/101.</p>	B	8HP6 312	1 unit	1.180
 <p>Screws for cover hinge (1 set = 2 units)</p>	B	8HP1 811	1 set	0.040
 <p>Quick-release cover lock (1 set = 4 units)</p>	B	8HP1 813	1 set	0.100

SENTRIC HP Molded-Plastic Distribution System

Accessories


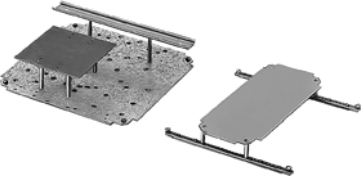



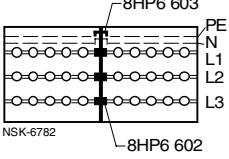
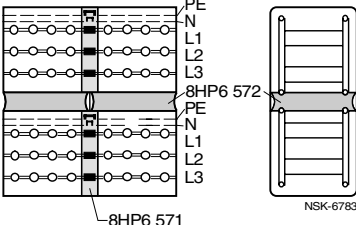
	Designation	DT	Order No.	PS*	Weight per PU approx. kg
	Grip end straight knurled, for opening by hand (1 set = 4 units)	B	8HP1 810	1 set	0.040
	Self-tapping screws	B	8HP6 621	1 set	0.150
	Operating flap with snap lock, lockable, with padlock 6 mm, degree of protection IP65 12 modular spacings (1 MS = 18 mm)	B	8HP1 440	1 unit	17.500
	Operating flap with screwed lock, degree of protection IP65 5 modular widths (1 MW = 18 mm) 2 modular widths (1 MW = 18 mm)	B B	8HP1 441 8HP1 442	1 unit 1 unit	0.100 0.050
	Hinged cover with tension springs¹⁾ Degree of protection IP54 8 modular widths (1 MW = 18 mm)	C	8HA4 14	1 unit	0.200
	Fixing rail with tapped holes M4, fixing length 236 mm	B	8JK1 13	1 unit	0.050
	Mounting rail for meters, time switches and time relays, fixing length 236 mm	B	8JH1 41	1 unit	0.070
	Standard mounting rail 35 mm to EN 50022 (thickness 1 mm), fixing length 236 mm	B	8HP6 510	1 unit	0.100
	Mounting plate 2 mm metal sheet, sendzimir-galvanized, for fixing with self-tapping screws 100 × 273 mm 150 × 273 mm 200 × 273 mm	A A A	8HP6 341 8HP6 342 8HP6 343	1 unit 1 unit 1 unit	0.500 0.700 1.000

1) Cannot be used with 8HP5 5.. assembly kits.

SENTRIC HP Molded-Plastic Distribution System

Accessories

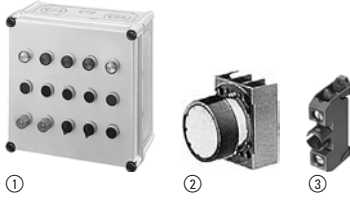

Installation accessories

Designation	DT	Order No.	PS*	Weight per PU approx. kg
Stud bolts				
M5 stud bolts Hexagonal, for screwing directly into the M5 threaded bushes in the enclosure base				
	B	8HP6 615	1 unit	0.020
	B	8HP6 611	1 unit	0.020
	B	8HP6 612	1 unit	0.040
	B	8HP6 613	1 unit	0.060
	B	8HP6 614	1 unit	0.050
M4 stud bolts for screwing into 8JK1 13 fixing rail or mounting plates				
	B	8JH1 353	1 unit	0.006
	B	8JH1 354	1 unit	0.009
	A	8JH1 355	1 unit	0.014
	B	8JH1 356	1 unit	0.016
	Insulation blocks			
Insulation blocks for insulated mounting of mounting rails on plates, frames and standard mounting rails to EN 50022-35				
	A	8WA1 857	1 unit	0.010
Label for identifying the insulation block				
	A	8WA1 864	1 unit	0.009
Blanking covers				
Blanking strip gray, for cutouts in the assembly kits for equipment with snap-on mounting, for 12 modular widths, can be cut off				
	C	8GR5 058	1 unit	0.003
Blanking cover plate of RAL 7035 molded plastic, light gray for enclosure size 2 for enclosure size 3				
	B	8HP6 586	1 unit	0.250
	B	8HP6 588	1 unit	0.500
Connection installation sets				
Connection assembly kit for 2 DIAZED or NEOZED fuse assembly kits The bars of the connection assembly kit can be equipped with incoming terminals up to 50 mm ² , Order No. 8JH4 125 or 70 mm ² , Order No. 8JK3 441 (see Page 7/100). Note load rating of the bar-mounting base bar 160 A.				
	B	8HP6 602	1 unit	0.100
	B	8HP6 603	1 unit	0.080
Intermediate covering strips				
For multiple installation of assembly kits with cover plates for covering the intermediate spaces. These are essential when using cover locks with manual operation.				
Covering strip, 285 mm long vertical horizontal				
	B	8HP6 571	1 unit	0.020
	B	8HP6 572	1 unit	0.020

* This quantity or a multiple thereof can be ordered.



SENTRIC HP Molded-Plastic Distribution System

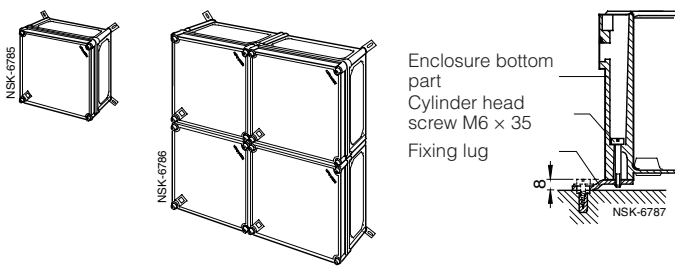
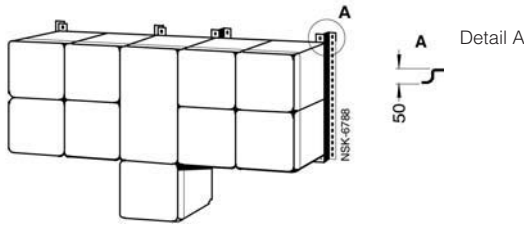
Accessories

	Designation	DT	Order No.	PS*	Weight per PU approx. kg
 <p>① ② ③</p>	<p>Pushbuttons and indicator lights</p> <p>3SB and 3SA totally insulated pushbuttons and indicator lights can be installed in the enclosures of the 8HP system. (For technical specifications and selection and ordering data see catalog LV 20 "BERO – Sensor Technology for Automation")</p> <p>When equipment with front plate fixing is mounted in the cover, it is recommended to use 8HP1 811 cover hinge screws to relieve the strain on the cables, see Page 7/103. In the case of equipment for base mounting it is recommended to use actuators with extended stroke in order to compensate for cover and mounting tolerances.</p> <p>① 3SB1 installed in enclosure size 2 ② 3SB10 00-0B.. with extended stroke ③ 3SB14 20-0C for base mounting</p>				
	<p>Measuring instruments</p> <p>Holder for measuring instruments for mounting on mounting plates □ 96 or □ 72</p>	B	8HP6 201	1 set	0.100
	<p>Masking frame for measuring instruments of plastic, for shielding busbars, terminals etc., hinged, 250 × 250 mm without cutouts with 4 cutouts □ 96</p>	B B	8HP6 203 8HP6 204	1 unit 1 unit	0.540 0.400
	<p>Accessories for meter enclosures</p> <p>ISO meter support plate with meter fixing screws to DIN 46300 and distance bolts (15 mm) for enclosure size 2.5 for enclosure sizes 3 and 4</p> <p>8JH1 41 meter support rail and 8JK1 13 fixing rail (see Page 7/104)</p>	B B	8HP6 111 8HP6 112	1 unit 1 unit	0.400 0.600
	<p>Sealing cap for sealing the quick-release cover locks (1 set = 2 units)</p>	B	8HP1 815	1 set	0.010
	<p>Sealing fastener captive, for sealing the quick-release cover locks (1 set = 2 units)</p>	B	8HP1 816	1 set	0.010
	<p>Hinged window for maximum-demand meters and time switches</p>	B	8HC4 80	1 unit	0.440
	<p>Assembly kit for 1 to 6 automatic meters (dimensions see Page 7/115), for enclosure size 2, cover with 8HP1 331 fixing flap</p>	C	8HP6 372	1 unit	0.400

SENTRIC HP Molded-Plastic Distribution System

Accessories

Designation	For switch	DT	Order No.	PS*	Weight per PU approx. kg	
Single operating mechanisms, with total insulation						
Single operating mechanism for switch disconnectors Lockable with padlocks						
	For fitting in size 2 enclosures with raised cover and in size 3 and 4 enclosures with coupling frame	3KL50, 3KA50 "EMERGENCY-STOP" ▶	8UC61 11-1BB10 8UC61 21-3BB10	1 unit 1 unit	0.347 0.353	
	8UC61, 8UC62: blanking cover □ 75 mm 8UC63, 8UC64: blanking cover □ 100 mm	3KL52, 3KA53 "EMERGENCY-STOP" ▶	8UC62 12-1BB20 8UC62 22-3BB20	1 unit 1 unit	0.404 0.426	
		3KL50, 3KA50 "EMERGENCY-STOP" ▶	8UC63 13-1BB30 8UC63 23-3BB30	1 unit 1 unit	0.973 0.999	
		3KE42, 3KE43 "EMERGENCY-STOP" ▶	8UC63 14-1BB44 8UC63 24-3BB44	1 unit 1 unit	1.150 1.170	
		3KE44, 3KE45 "EMERGENCY-STOP" ▶	8UC64 14-1BB44 8UC64 24-3BB44	1 unit 1 unit	1.170 1.180	
	Single operating mechanism for 3VF circuit-breaker					
	Enclosure size 2 with raised cover or size 3 with coupling frame	3VF4 3VF5	B B	3VF9 423-1EA00 3VF9 523-1EA00	1 unit 1 unit	2.000 1.080
	Enclosure size 3 with coupling frame	3VF6	B	3VF9 623-1EA00	1 unit	0.140

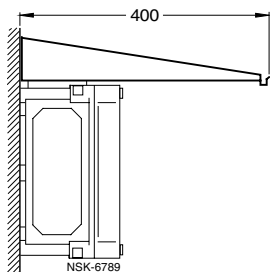
Designation	DT	Order No.	PS*	Weight per PU approx. kg
Wall mounting of distribution boards				
Fixing brackets for individual enclosures and consumer units complete with cylinder head screws B M6 × 35 (1 set = 4 units)				
 <p>NSK-6785</p> <p>NSK-6786</p> <p>Enclosure bottom part Cylinder head screw M6 × 35 Fixing lug</p> <p>NSK-6787</p>		8HC3 800	1 set	0.100
Fixing with 8HC3 800 fixing lugs				
Wall-mounting angle bracket with elongated holes 7 mm × 44 mm 700 mm long 2000 mm long				
 <p>NSK-6788</p> <p>Detail A</p> <p>50</p>	B B	8HC3 510 8HP9 020	1 unit 1 unit	2.530 7.500

EMERGENCY-STOP operating mechanisms for SENTRON VL and 3VF circuit-breakers see "Components for distribution systems".

SENTRIC HP Molded-Plastic Distribution System

Accessories

Designation	Enclosure width (width = X × 307 + 185 mm)	DT	Order No.	PS*	Weight per PU approx. kg
	X				
Rain guards					
Rain guards of sendzimir-galvanized metal sheeting, 1.5 mm thick. Enclosure width					
for wall fixing	1	B	8HP9 121	1 unit	3.700
	2	B	8HP9 122	1 unit	5.500
	3	B	8HP9 123	1 unit	7.300
	4	B	8HP9 124	1 unit	9.200
with additional fixing for 8HP frame	3	B	8HP9 133	1 unit	8.000
	4	B	8HP9 134	1 unit	9.900
with additional fixing for 8HP frame and supporting cross- arm	5	B	8HP9 135	1 unit	12.400
	6	B	8HP9 136	1 unit	14.300



Designation	DT	Order No.	PS*	Weight per PU approx. kg
Tools and aids				
Separating tool with 1 blade for easy cutting out of the flange knockouts in the side panels of the enclosures.				
	B	8HP9 000	1 unit	0.150
Replacement blade				
	B	8HP9 001	1 unit	0.010
Hand-held circle cutter for cutting out the Pg knockouts in the side panels of the enclosures and the end plate				
Pg 13.5	B	8HP9 002	1 unit	0.200
Pg 16	B	8HP9 003	1 unit	0.200
Pg 21	B	8HP9 004	1 unit	0.200
Pg 36	B	8HP9 006	1 unit	0.250
Pg 48	B	8HP9 007	1 unit	0.250



SENTRIC HP Molded-Plastic Distribution System

Accessories

Support rack and cable space cover



SENTRIC HP distribution board, support rack and cable space cover

Support rack

Support rack of sendzimir-galvanized shaped pressed metal for mounting SENTRIC HP distribution boards.

Punched holes at spacings of 307 mm x 307 mm enable the different distribution boards to be fixed using the supplied captive nuts.

Widths (3, 4, 5, 6) x 307 mm (= distribution board width); for greater widths, racks can be connected together.

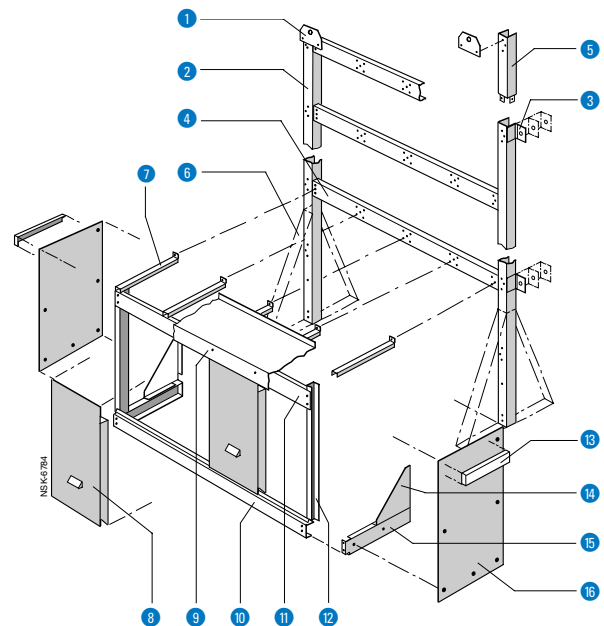
Height 6 x 307 mm; the height can be increased by 307 mm using an extension.

Cable space cover

Cable space cover for mounting on the SENTRIC HP support rack or an appropriate profiled iron frame, with plug-in molded-plastic covers (color light gray, RAL 7035).

Heights 370 and 677 mm. With the 8HP9 057 double flange, enclosures can also be fitted under the cable space cover. On the outer sides however, due to the joining sheets, only enclosures of size 1 in the case of 370 mm height and enclosures of size 2 for 677 mm height can be used.

For distribution boards > 6 widths = 1842 mm, 2 cable space covers must be ordered in accordance with the support racks. However, as in this case only 1 set of side walls **16** and 1 set of corner covers **13** are required, it is advisable to order the second cable space cover in separate parts – without the specified items.



Individual parts for support rack and cable space cover

- 1 Lifting lug
- 2 Support profile
- 3 Wall mounting bracket
- 4 Mounting rail
- 5 Support profile extension
- 6 Supporting foot for free-standing installation
- 7 Support strut
- 8 Section cover
- 9 Top cover
- 10 Skirting board
- 11 Lateral profile
- 12 Edge profile
- 13 Corner cover
- 14 Joining sheet
- 15 Side support
- 16 Side panel

SENTRIC HP Molded-Plastic Distribution System

Accessories

Fig. No.	Designation	Dimensions mm	DT	Order No.	PS*	Weight per PU approx. kg
Components of the support rack						
2	Support profiles (incl. 4 wall mounting brackets 3, 2 lifting lugs 1 and fixing accessories) 1 pair	1952	A	8HP9 030	1 unit	11.200
4	Mounting rail including fixing accessories		A	8HP9 032	1 unit	2.700
	3 sections (for a distribution board width of 921 mm)	821	A	8HP9 032	1 unit	2.700
	4 sections (for a distribution board width of 1228 mm)	1128	A	8HP9 035	1 unit	3.600
	5 sections (for a distribution board width of 1535 mm)	1435	A	8HP9 036	1 unit	4.500
	6 sections (for a distribution board width of 1842 mm)	1742	A	8HP9 037	1 unit	5.400
5	Support profile extensions 1 pair	307	A	8HP9 034	1 unit	0.900
3	Wall-mounting angle bracket 1 pair (if additionally needed)	for wall spacings of 50 to 100	B	8HP9 033	1 unit	0.100
-	Joining bracket for joining 2 frames and at the same time wall fixing behind the enclosures		B	8HP9 060	1 unit	0.300
6	Supporting foot for free-standing installation without cable space cover		B	8HP9 031	1 unit	2.000

Designation	Number of sections	Height mm	DT	Order No.	PS*	Weight per PU approx. kg
Cable space covers						
Complete, but unassembled	3	370	B	8HP9 103	1 unit	9.300
		677	B	8HP9 113	1 unit	11.400
	4	370	B	8HP9 104	1 unit	11.000
		677	B	8HP9 114	1 unit	13.700
	5	370	B	8HP9 105	1 unit	12.700
		677	B	8HP9 115	1 unit	16.000
	6	370	B	8HP9 106	1 unit	14.400
		677	B	8HP9 116	1 unit	18.300

Components of the cable space cover	Edge profile	Lateral profile	Support strut	Side supports	Joining sheet	Baseboard	Top cover	Corner cover	Section cover	Side panel	Bolts and nuts
	1 pair each	1 unit each		2 units each	2 units each	1 unit each	1 unit each	1 pair each		1 pair each	1 bag each
8HP9 103	8HP9 061	8HP9 063	4 x 8HP9 067	8HP9 045	8HP9 046	8HP9 038	8HP9 073	8HP9 083	3 x 8HP9 071	8HP9 081	8HP9 058
8HP9 113	8HP9 062	8HP9 063	4 x 8HP9 067	8HP9 045	8HP9 046	8HP9 038	8HP9 073	8HP9 083	3 x 8HP9 072	8HP9 082	8HP9 058
8HP9 104	8HP9 061	8HP9 064	5 x 8HP9 067	8HP9 045	8HP9 046	8HP9 040	8HP9 074	8HP9 083	4 x 8HP9 071	8HP9 081	8HP9 058
8HP9 114	8HP9 062	8HP9 064	5 x 8HP9 067	8HP9 045	8HP9 046	8HP9 040	8HP9 074	8HP9 083	4 x 8HP9 072	8HP9 082	8HP9 058
8HP9 105	8HP9 061	8HP9 065	6 x 8HP9 067	8HP9 045	8HP9 046	8HP9 041	8HP9 075	8HP9 083	5 x 8HP9 071	8HP9 081	8HP9 058
8HP9 115	8HP9 062	8HP9 065	6 x 8HP9 067	8HP9 045	8HP9 046	8HP9 041	8HP9 075	8HP9 083	5 x 8HP9 072	8HP9 082	8HP9 058
8HP9 106	8HP9 061	8HP9 066	7 x 8HP9 067	8HP9 045	8HP9 046	8HP9 042	8HP9 076	8HP9 083	6 x 8HP9 071	8HP9 081	8HP9 058
8HP9 116	8HP9 062	8HP9 066	7 x 8HP9 067	8HP9 045	8HP9 046	8HP9 042	8HP9 076	8HP9 083	6 x 8HP9 072	8HP9 082	8HP9 058

SENTRIC HP Molded-Plastic Distribution System

Accessories

Fig. No.	Designation	Dimensions Base height or width	DT	Order No.	PS*	Weight per PU approx. kg
Individual parts for cable space cover						
12	Edge profile (1 pair)	370 mm high 677 mm high	B B	8HP9 061 8HP9 062	1 unit 1 unit	0.500 1.000
11	Lateral profile 3 sections 4 sections 5 sections 6 sections	921 mm 1228 mm 1535 mm 1842 mm	B B B B	8HP9 063 8HP9 064 8HP9 065 8HP9 066	1 unit 1 unit 1 unit 1 unit	1.100 1.470 1.820 2.200
7	Support strut (number of sections + 1)	–	B	8HP9 067	1 unit	0.200
15	Side supports	–	B	8HP9 045	1 unit	0.900
14	Joining sheet	–	B	8HP9 046	1 unit	0.700
10	Baseboard 3 sections 4 sections 5 sections 6 sections	921 mm 1228 mm 1535 mm 1842 mm	B B B B	8HP9 038 8HP9 040 8HP9 041 8HP9 042	1 unit 1 unit 1 unit 1 unit	1.800 2.400 3.000 3.600
9	Top cover 3 sections 4 sections 5 sections 6 sections		B B B B	8HP9 073 8HP9 074 8HP9 075 8HP9 076	1 unit 1 unit 1 unit 1 unit	1.000 1.300 1.700 2.000
13	Corner cover (1 pair)		B	8HP9 083	1 unit	0.100
8	Section cover	370 mm high 677 mm high	B B	8HP9 071 8HP9 072	1 unit 1 unit	0.350 0.820
16	Side panel (1 pair)	370 mm high 677 mm high	B B	8HP9 081 8HP9 082	1 unit 1 unit	1.200 2.200
–	Double flange ¹⁾		B	8HP9 057	1 unit	0.300
–	Bolts and nuts (Assortment, sufficient for 6 sections)		B	8HP9 058	1 unit	0.800

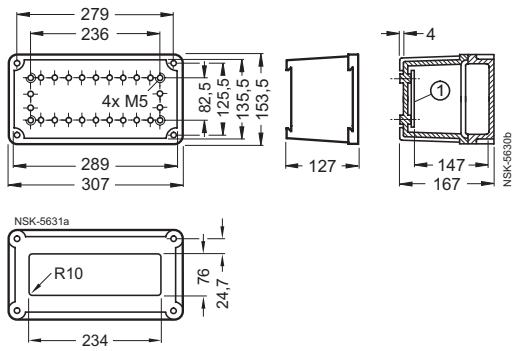
1) For mounting enclosures under the cable space cover.

SENTRIC HP Molded-Plastic Distribution System

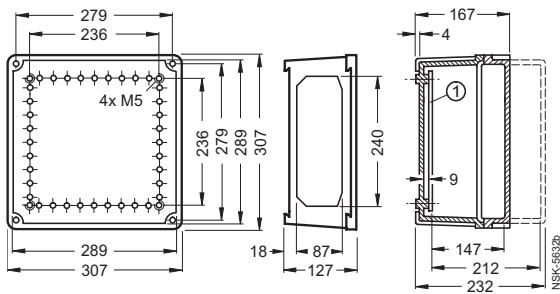
Accessories

Dimension drawings

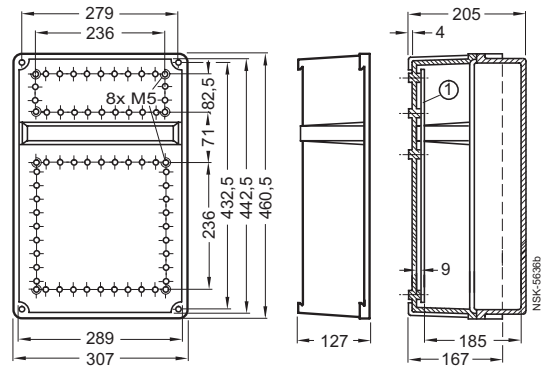
Empty enclosures, covers



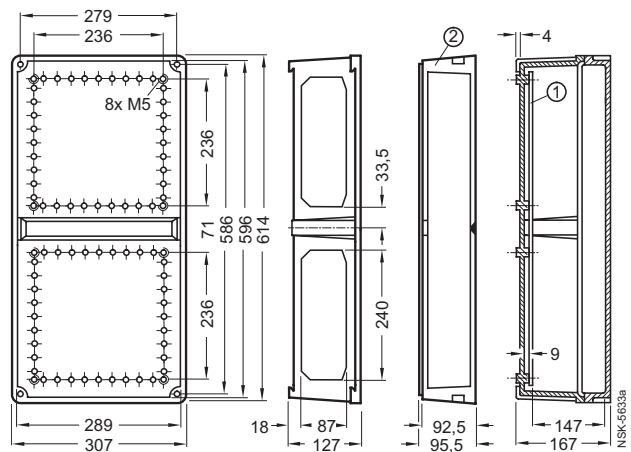
Enclosure size 1



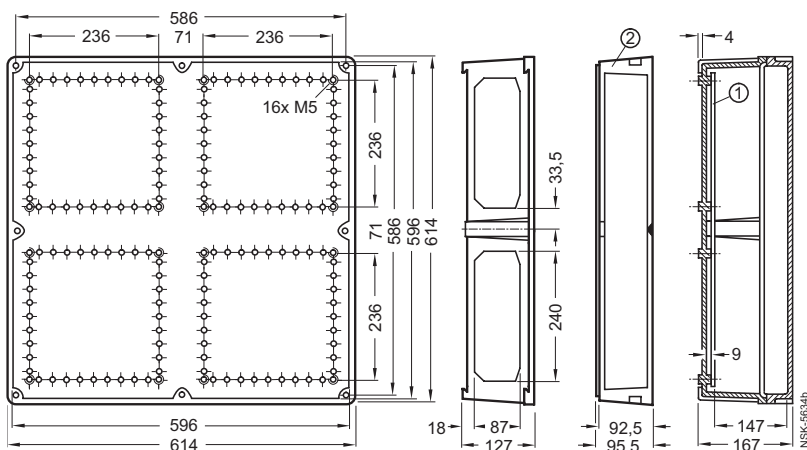
Enclosure size 2



Enclosure size 2.5

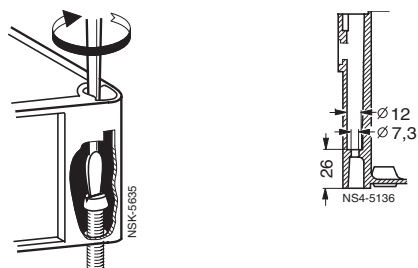


Enclosure size 3



Enclosure size 4

- ① Mounting plate, 2 mm thick
- ② Coupling frame for increasing the mounting depth (multiple stacking)



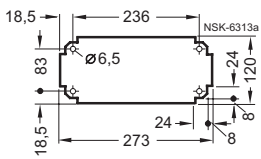
Enclosure fixing

SENTRIC HP Molded-Plastic Distribution System

Accessories

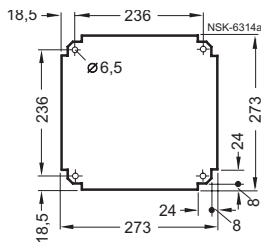
Mounting panels

Sheet steel 2 mm thick, sendzimir-galvanized



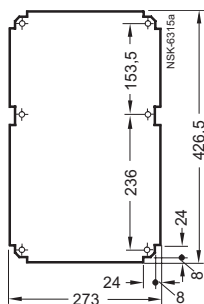
8HP6 301

for enclosure size 1



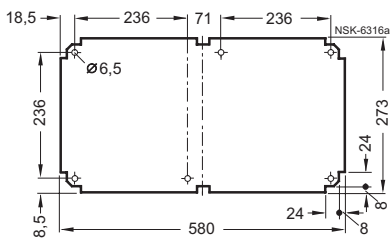
8HP6 302

for enclosure size 2



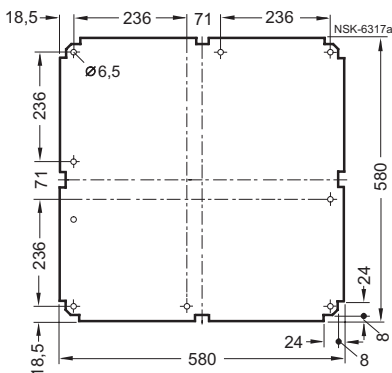
8HP6 307

for enclosure size 2.5



8HP6 303

for enclosure size 3



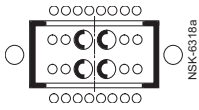
8HP6 304

for enclosure size 4

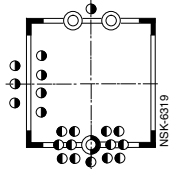
SENTRIC HP Molded-Plastic Distribution System

Accessories

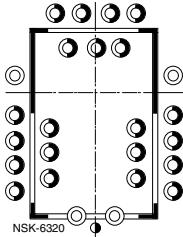
Knockouts for flange openings and cable entries



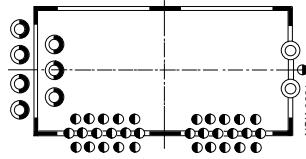
Enclosure size 1



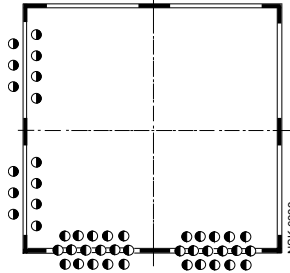
Enclosure size 2



Enclosure size 2.5



Enclosure size 3



Enclosure size 4

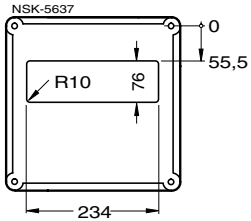
Pg 13.5

- Pg 16
- Pg 29
- Pg 21/Pg13.5
- Pg 29/Pg 16
- Pg48¹/Pg 29
- Flange knockouts
-

If the knockouts do not meet requirements, end cover plates with or without knockouts can be mounted, see Page 7/102.

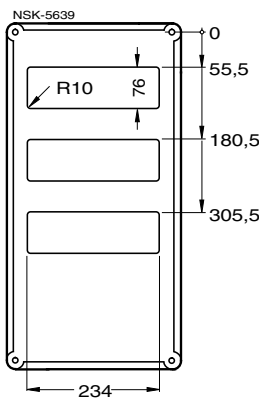
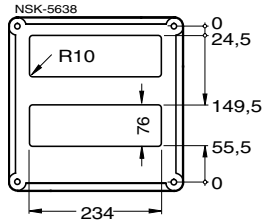
1) Also for joining enclosures with sealing frame

Cover with operating flaps



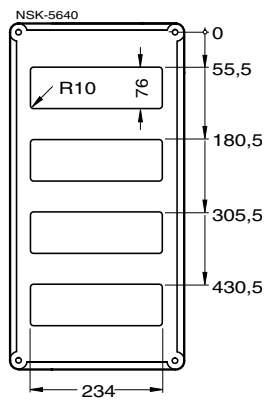
Enclosure size 2

for modular installation devices with snap-on mounting



Enclosure size 3

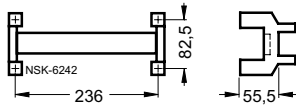
for modular installation devices with snap-on mounting



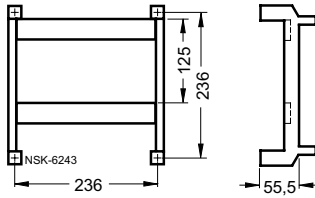
SENTRIC HP Molded-Plastic Distribution System

Accessories

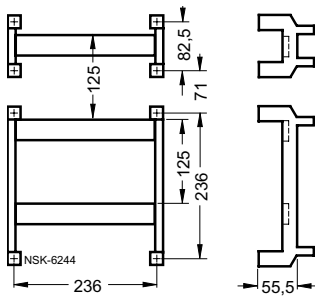
Assembly kits for devices with snap-on mounting



8HP5 531

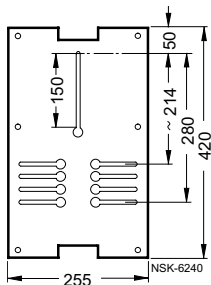


8HP5 532



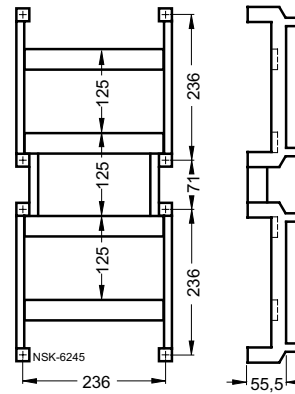
8HP5 533

Meter support plates

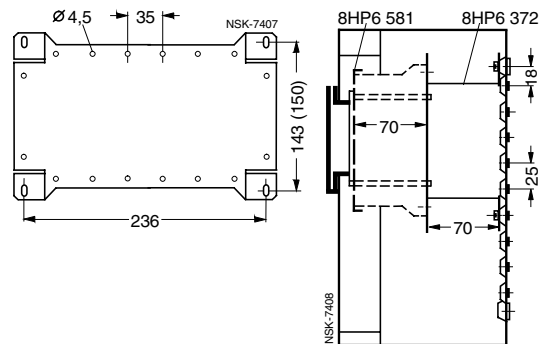


8HP6 111

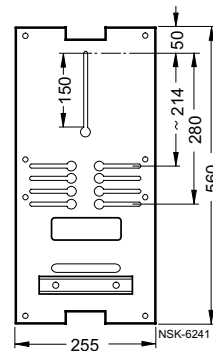
for enclosure size 2.5



8HP5 534



8HP6 372



8HP6 112

for enclosure sizes 3 and 4

Further information

Selection and ordering data, further technical specifications and dimension drawings are contained in the 8HP System catalog, Order No. 8ZX1012-0HP54-5AB1 (in German only).

SENTRIC HP Molded-Plastic Distribution System

Notes

7

