

SIEMENS

SIVACON

Low-Voltage Power Distribution and Electrical Installation Technology

Switchboards and Distribution Systems

SIVACON · ALPHA

Catalog
LV 10.2

Edition
2013

Answers for infrastructure and cities.

Related catalogs

Low-Voltage Power Distribution and Electrical Installation Technology

SENTRON Protection, Switching, Measuring and Monitoring Devices

E86060-K8250-A101-A3-7600



Low-Voltage Power Distribution and Electrical Installation Technology

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SIVACON S4

Power Distribution Boards

E86060-K1856-A101-A1-7600



Products for Automation and Drives

Interactive Catalog

DVD: E86060-D4001-A510-D2-7600



Mall

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Contents

Air circuit breakers • Molded case circuit breakers • Miniature circuit breakers • Residual current protective devices / AFD units • Fuse systems • Overvoltage protection devices • Switch disconnectors • Switching devices • Transformers, power supply units and socket outlets • Busbar systems • Measuring devices and power monitoring • Monitoring devices • Software

Switchboards • Busbar trunking systems • System cubicles, system lighting and system air-conditioning • Distribution boards • Molded-plastic distribution systems • iPo installation terminals

Cubicle racks • Enclosures • Cubicle expansions • Preconfigured cubicles • Special cubicles • System lighting • System air-conditioning

iPo plug-in terminals • iPo installation terminals • Spring-loaded terminals • Combination plug-in terminals • Insulation displacement terminals • Screw terminals • Accessories for terminal blocks

Power distribution boards • Standard configurations • Cubicles, supporting structure and enclosure • Busbar systems • Assembly kits for protection and switching devices • Covers, modular doors, mounting plates and 19" racks • Internal separation • System air-conditioning • Accessories

All products of automation, drives and installation technology, including those in the catalogs listed above.

All products of automation, drives and installation technology, including those in the catalogs listed above.

All catalogs for low-voltage power distribution and electrical installation technology can be downloaded as PDF files.

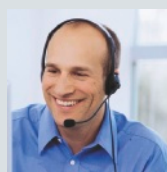
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Expert advice on technical questions with a wide range of demand-optimized services for all our products and systems.

www.siemens.com/lowvoltage/technical-support

Low-Voltage Power Distribution and Electrical Installation Technology

Switchboards and Distribution Systems

Catalog LV 10.2 · 2013



VDE
VERBAND DER ELEKTROTECHNIK
ELEKTRONIK INFORMATIONSTECHNIK e.V.

The products and systems listed in this catalog are developed and manufactured in accordance with a VDE-certified quality management system complying with EN ISO 9001:2000.

Supersedes:
Catalog LV 10.2 · 2012

Refer to the Industry Mall for current updates of this catalog:

www.siemens.com/industrymall

The products contained in this catalog can also be found in the Interactive Catalog CA 01.

Order No.:
E86060-D4001-A510-D2-7600

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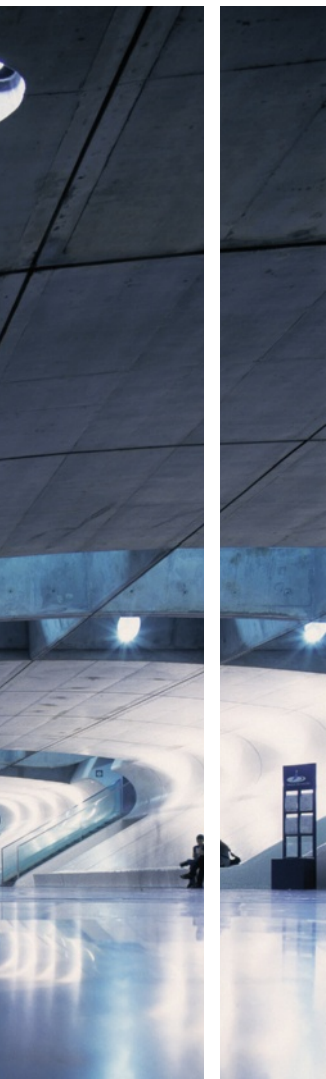


The right one for everyone

Our portfolio includes switchboards, busbar trunking systems, distribution boards, protection, switching, measuring and monitoring devices, building management systems, switches and socket outlets. All over the world, the universality, modularity and intelligence of our components and systems give you innumerable benefits – all the time they are in use. Developed according to the respective international standards, we offer forward-looking design with innovative functions and ensure the highest quality standards world-wide.

Sustainability in focus

As a worldwide leader in the provision of high-quality, standards-compliant products and systems for low-voltage power distribution, we contribute to the sustainable and responsible handling of electrical energy. With our integrated portfolio of energy saving and distribution through short circuit protection and overload protection through to energy management, we support the implementation of environmentally friendly energy concepts on the basis of wind power, photovoltaics, intelligent buildings and electromobility.



Universal, safe and intelligent power distribution

Whether in industrial plants, in infrastructure or in buildings: Each technical plant depends on the reliable supply of electricity. Even a short outage can have grave consequences. We offer the best technology for the responsible use of electrical energy and at the same time help to protect people and property and to conserve natural resources.

We are happy to help you with comprehensive support from the initial information through to operation. Take a closer look at all the options available from Siemens.

Everything for power distribution

Consistent solutions are required for electric power distribution in buildings. Our answer is Totally Integrated Power (TIP). TIP stands for innovative products, systems and software tools which ensure the safe and reliable distribution of electric power. They are supplemented by communication-capable circuit breakers and modules which connect the power distribution system to the building automation system or industrial automation solutions. These in turn can be linked to a comprehensive energy management system which contributes to optimizing the consumption of electricity and hence to lowering the costs of operation.

Excellent support

As a competent and reliable partner, we also offer you comprehensive support – from the initial information, through planning, configuring and ordering to commissioning, operation and technical support. We know the needs of your working environment and your daily business. Based on this, we give you flexible and high quality support, which allows you to concentrate fully on your customers and their needs.

Get all the information you need – with just one click

SIEMENS

LV Explorer
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Portfolio



Switchboards
Busbar Trunking Systems
Distribution Boards
Terminal Blocks
Protection Devices
Control Devices and Switch Disconnectors
Busbar Systems
Measuring Devices and Energy Monitoring
Monitoring Devices

Topics News

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LV Explorer – Discover Low Voltage in 3D
Get comprehensive and specific information about our products using our 3D animations, trailers and technical information.



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Always at your service – every step of the way
We offer comprehensive support, from planning to configuration to operation.

Switchboards



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More technical product information:

Planning Manual

Planning with SIVACON S8
Order No.: A5E01619128-01

Service&Support portal:

www.siemens.com/lowvoltage/technical-support

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Technical specifications

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Introduction

Overview



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

Reliable, economical, flexible and communication-capable

For all applications in infrastructure and process industry

In circuit breaker design

In 3NJ4 in-line design, fixed-mounted

In in-line design, plugged in

In fixed-mounted design (infrastructure)

In universal installation systems for the combination of:

- Withdrawable version
- Fixed-mounted version
- 3NJ6 in-line design, plugged in

Degree of protection up to IP54

Type-tested according to IEC 61439-1/2
(type-tested according to IEC 60439-1)

Tested for resistance to internal arcing faults in compliance with IEC 61641

Tested for resistance to earthquakes



SIVACON S4 power distribution boards up to 4000 A

Reliable, economical and flexible

For all applications in the infrastructure sector

Flexible modular system

Delivery of packed assembly kits with standard parts

Assembly kits for 3WL, 3VL, 3VT circuit breakers

Assembly kits for 3K, 3NJ4, 3NJ6 fuse switch disconnectors

Assembly kits for modular installation devices

Degree of protection up to IP55

Type-tested according to IEC 61439-1/2

Tested for resistance to internal arcing faults in compliance with IEC 61641

Design

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

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

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

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

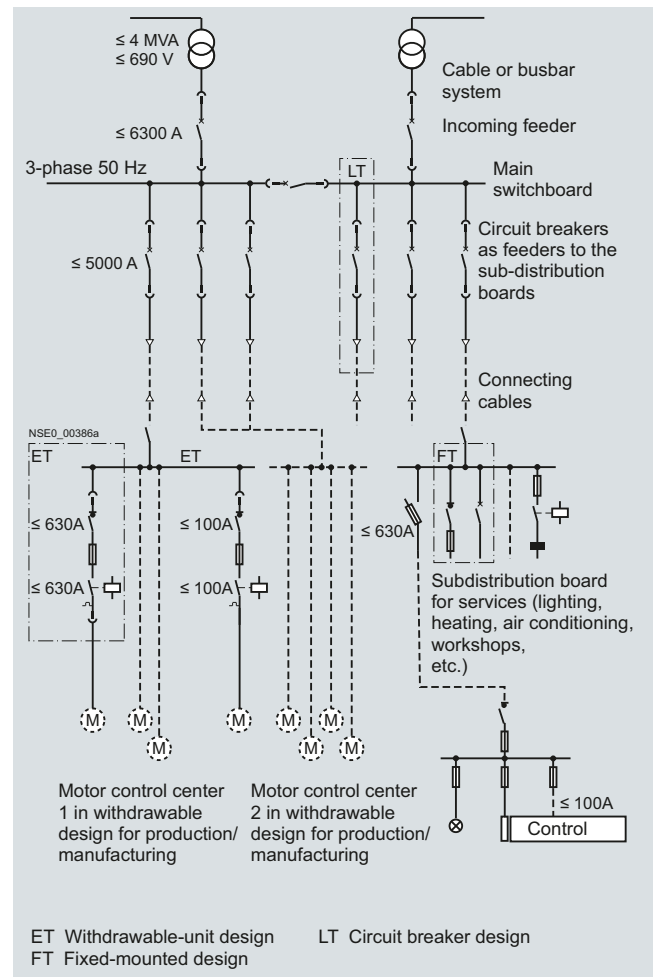
The SIVACON S4 and SIVACON S8 low-voltage power distribution boards offer optimal solutions for applications up to 4000 A or 7000 A depending on the type of system.

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

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

You can find more information on the Internet at:

www.siemens.com/sivacon



Power distribution in a low-voltage system

Technical specifications

Selection criteria	SIVACON S8		SIVACON S4
	Top	Rear	
Busbar position			
Rated currents			
• Busbars up to	6300 A	7010 A	4000 A
• Infeed up to	6300 A	6300 A	3200 A
Short-circuit strength I_{pk} up to	330 kA	330 kA	220 kA
Installation system			
• Fixed-mounted version	✓ ¹⁾	✓ ¹⁾	✓ ¹⁾
• 3NJ4 in-line design, fixed installation	✓	✓	✓
• In-line design, plugged in	✓	✓	✓
• Plug-in design	✓ ²⁾	✓ ²⁾	--
• Withdrawable version	✓	✓	--
• Universal installation system	✓	✓	--
Type of installation			
• Free-standing/against wall	✓	✓	✓
• Back to back	✓	✓	✓
• Double-fronted	--	✓	--
Use			
• Motor control center	✓	✓	--
• Power distribution board	✓	✓	✓
Manufactured by SIVACON Technology Partner	✓	✓	--

✓ Available

-- Not available

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

²⁾ Plugged in in-line panel.

Switchboards

SIVACON S8 Power Distribution Boards and Motor Control Centers

General data

Overview



SIVACON S8 low-voltage power distribution board

Maximum safety and attractive design are combined in an efficient solution: with SIVACON S8, the new generation of switchboards for consistent and easy power distribution in non-residential and industrial buildings as well as in the process industry up to 7000 A.

The new design of the control cabinets opens up new applications, e. g. here as a motor control center. Following features are offered to improve personal and machine safety:

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

The SIVACON S8 power distribution board is custom configured and constructed using type-tested functional components.

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

- Customized configuration
- Mechanical and electrical construction
- Inspection

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

Standards and specifications

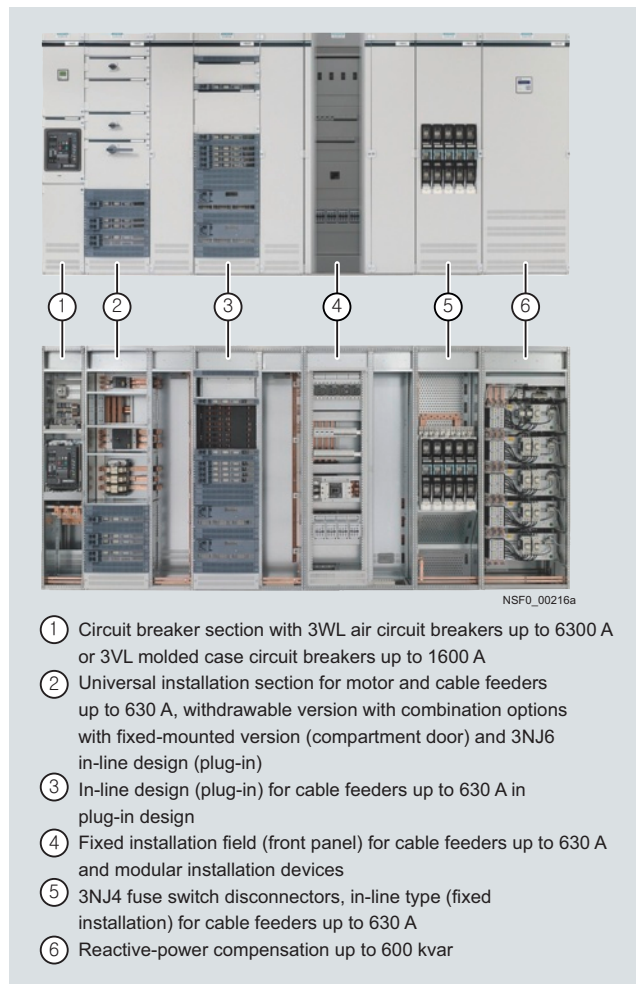
The SIVACON S8 low-voltage power distribution board is a type-tested low-voltage controlgear assembly according to IEC 61439-1/2 (formerly IEC 60439-1 TTA). The switchboard is designed to be resistant to arcing faults according to IEC 61641, EN 60439 (VDE 0660 part 500), supplement sheet 2.

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

Installation systems

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

The following installation systems indicated in the diagram below are available:



- ① Circuit breaker section with 3WL air circuit breakers up to 6300 A or 3VL molded case circuit breakers up to 1600 A
- ② Universal installation section for motor and cable feeders up to 630 A, withdrawable version with combination options with fixed-mounted version (compartment door) and 3NJ6 in-line design (plug-in)
- ③ In-line design (plug-in) for cable feeders up to 630 A in plug-in design
- ④ Fixed installation field (front panel) for cable feeders up to 630 A and modular installation devices
- ⑤ 3NJ4 fuse switch disconnectors, in-line type (fixed installation) for cable feeders up to 630 A
- ⑥ Reactive-power compensation up to 600 kvar

SIVACON S8 low-voltage power distribution board with standardized and typified components

SIVACON S8 Power Distribution Boards and Motor Control Centers

General data

Application

The main applications are as

- low-voltage power distribution boards or as
- motor control centers.

Use as motor control centersUniversal installation section (withdrawable version)

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

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

- tap-off units in withdrawable version (3 positions: Disconnect - Test - Operation),
- fixed-mounted version and
- tap-off units in 3NJ6 in-line design, plugged in.

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

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

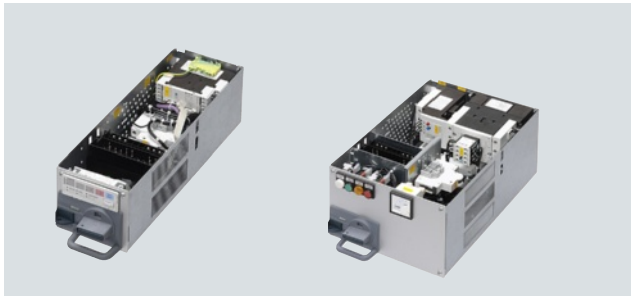


Universal installation section

Withdrawable unit versions

Small withdrawable units:

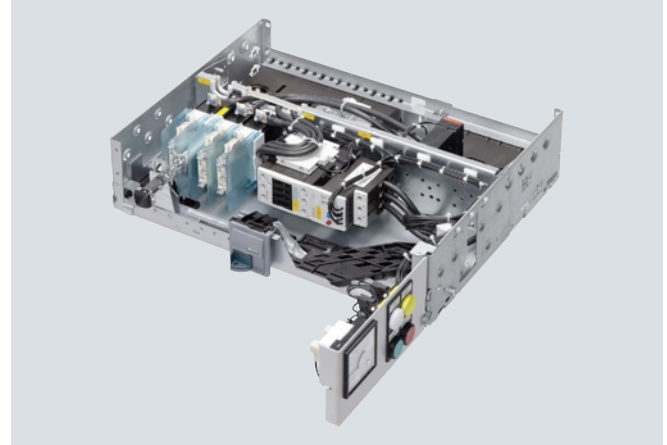
- Size ¼ and ½ (¼ sub-section or ½ sub-section)
- Height 150 mm and 200 mm
- Up to 48 withdrawable units per section



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

Standard withdrawable units:

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



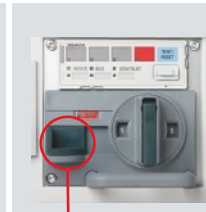
Standard withdrawable unit

Operating error protection

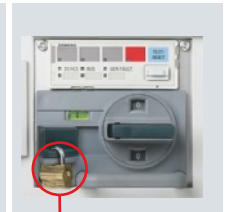
Operating error protection prevents movement of the isolating contacts with main control switch "ON".



Operating error protection enabled, main control switch in position "0"



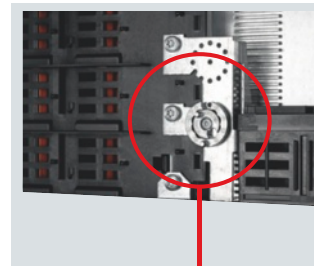
Operating error protection disabled, main control switch in position "1"



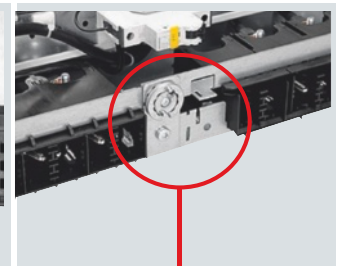
Lockable disconnected position

Withdrawable unit coding

The mechanical withdrawable unit coding with up to 9216 coding options prevents swapping of withdrawable units of the same size.



Withdrawable unit coding in the compartment



Withdrawable unit coding on the unit

More information

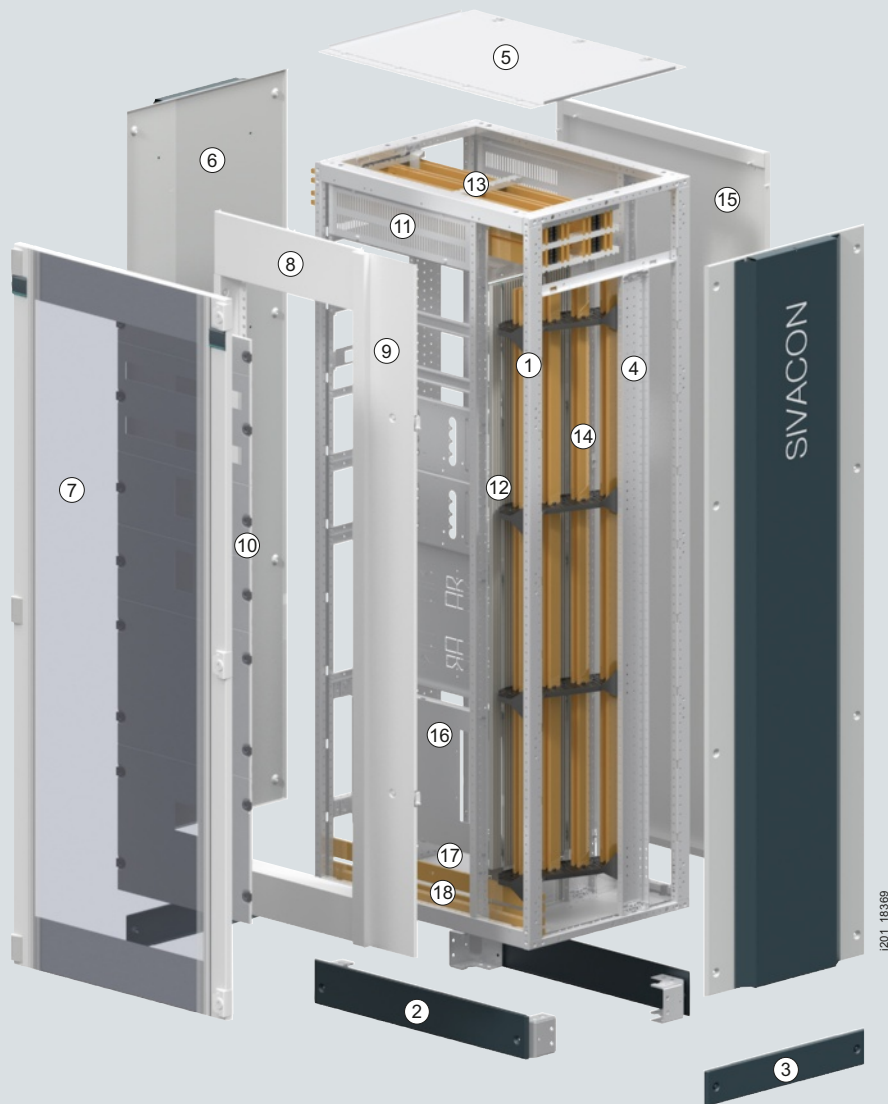
More information can be found on the Internet at www.siemens.com/sivacon

Switchboards

SIVACON S4 Power Distribution Boards

General data

Overview



- | | | |
|--------------------------------|--|--|
| ① Rack | ⑦ Glass door in Giugiaro design | ⑬ Main busbars |
| ② Base edges with front covers | ⑧ Cover frame | ⑭ Vertical distribution busbar system non-cascaded |
| ③ Lateral base covers | ⑨ Cover in front of 200 mm wide functional compartment | ⑮ Rear panel |
| ④ Supporting structure | ⑩ Covers for assembly kits | ⑯ Mounting plate for switching devices |
| ⑤ Top plate | ⑪ Partition for main busbar system | ⑰ Bottom plate |
| ⑥ Side panel with design part | ⑫ Partition for vertical distribution busbars | ⑱ PE busbars |

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Switchboards

SIVACON S4 Power Distribution Boards

General data



NSWO_00980

SIVACON S4 is a switchgear and controlgear assembly, type-tested in accordance with IEC 61439-1/2, EN 61439-1/2. It is used in infrastructure power supplies in administrative and functional buildings, in industrial and commercial buildings, and in public buildings such as schools and hospitals. The concept of the SIVACON S4 low-voltage power distribution board is characterized by a high level of personal and plant safety.

SIVACON S4 is based on the modular building block principle. Thanks to the use of requirements-based, standardized and series-produced assembly kits and the wide range of possible combinations offered by SIVACON S4 modular technology, all demands in connection with low-voltage power distribution can be optimally met.

Switchboards

SIVACON S4 Power Distribution Boards

General data

System

SIVACON S4 is a low-voltage power distribution board in side-by-side cabinet design enclosed on all sides by a sheet steel cabinet for indoor applications, optionally for wall or free-standing installation.

Rack

The rack is constructed from height, width and depth profiles.

It is the supporting structure for all built-in and surface-mounted components. Use of sendzimir-galvanized rack profiles and self-tapping screws creates a mechanically highly stable construction with safe grounding of the built-in components.

Enclosure

The enclosure parts enable versions in degrees of protection IP30/31, IP40/41 or IP55. The powder-coated enclosure parts are finished in RAL7035. Doors come as standard with a coupled double-bit lock or optionally with a wide range of operating mechanisms, as well as twist lever catches with or without a lock. Assembly kit covers are secured by means of captive quick-acting locks. The quick-acting locks are opened and closed by rotating them by a 1/4 turn. The bezel hinge available as an option allows the covers to be swivel-mounted.

Busbar systems

The SIVACON S4 main busbar system offers a practical grading of rated currents up to 4000 A, coordinated with the rated currents and rated short-circuit currents of standard transformers. It allows network system configurations such as TN-C, TN-S, IT and TT to be set up. Vertical busbar systems are available as cascaded busbar systems up to 1600 A, or as a non-cascaded system up to 2700 A.



NSW0_00981

Form of internal partition

Depending on the individual requirements, the form of internal partitions can be implemented as form 1, 2, 3 or 4.

Assembly kits

A service-proven and coordinated range of assembly kits is available for SENTRON protection and switching devices as well as for modular installation devices. Depth-adjustable modular and section-high mounting plates, covers with or without cut-outs, and cubicle air-conditioning components round off the assembly kit range.

Benefits

Features at a glance

- Type-tested switchgear and controlgear assembly in accordance with IEC 61439-1/2, EN 61439-1/2
- Modular system delivered as a flat pack (delivery of packed assembly kits with individual parts and standard parts, including assembly instructions for customer assembly)
- Attractive design, new ventilation and closure system
- Color RAL 7035
- Doors with universal hinges
- Degree of protection IP30, IP31, IP40, IP41 and IP55
- Busbar systems up to 4000 A, I_{cw} up to 100 kA (1 s), I_{pk} up to 220 kA
- Rack height 2000 mm
- Base height 100 mm or 200 mm
- Rack width 350 mm, 400 mm, 600 mm, 800 mm, 850 mm, 1000 mm or 1200 mm
- Rack depth 400 mm, 600 mm or 800 mm
- Assembly kits for SENTRON protection, switching, measuring and monitoring devices
- Assembly kits for copper connection modules for 3WL air circuit breakers and 3VL molded case circuit breakers
- Internal partitions in forms 1, 2, 3 and 4
- Easy planning and configuring with the SIMARIS CFB software tool

Directives for construction and testing

Switchgear engineers must observe the manufacturer's construction and mounting instructions when constructing and mounting the low-voltage power distribution board.

The low-voltage power distribution board must be configured and tested by the switchgear engineer in accordance with IEC 61439-1/2 and EN 61439-1/2.

Environmental protection

To the best of our knowledge our products do not contain any materials in concentrations or applications whose placing on the market in products is prohibited by the current requirements of Directive 2002/95/EC (RoHS).

The materials used are recyclable.



NSW0_00983

Switchboards

SIVACON S4 Power Distribution Boards

Technical specifications

Overview

Standards and specifications	Type-tested low-voltage switchgear and controlgear assembly	IEC 61439-1/2, EN 61439-1/2
Clearances and creepage distances	Rated impulse withstand voltage (U_{imp}) Overvoltage category Pollution degree	12 kV IV 3
Form of internal partition		1, 2b, 3b, 4a, 4b
Rated insulation voltage (U_i)		1000 V
Rated operational voltage (U_e)		Up to 690 V
Rated frequency		50/60 Hz
Rated currents (I_n) Busbars (3-pole and 4-pole) Main busbars, horizontal	Rated current Rated peak withstand current (I_{pk}) Rated short-time withstand current (I_{cw})	Up to 4000 A Up to 220 kA Up to 100 kA, 1s
Personal safety in the event of arcing faults Type-tested according to IEC 61641, no glass door	Rated operational voltage Rated short-time alternating current Arcing time without optional equipment Arcing time with optional equipment	400 V 50 kA 100 ms 300 ms
Surface treatment Rack components and expansions Enclosure parts	Sendzimir-galvanized Epoxy polyester resin Iron phosphating Total layer thickness	Min. 20 µm RAL 7035 Min. 70 µm
Protection class	According to IEC 61140, EN 61140	SK1
Degree of protection	According to IEC 60529, EN 60529	IP 30, IP 31, IP 40, IP 41, IP 55
Protection against mechanical damage	According to IEC 62262, Paragraph 9.6	IP 3X, IK08 ≥ IP 4X, IK10
Additional static loads on enclosure parts		
Masking frame	Swivel-mounted Fixed mounting	1.0 kg 5.0 kg
Covers	With quick-acting lock, height 50-300 mm With quick-acting lock, height 350-550 mm With quick-acting lock, height 600-800 mm With bezel hinge	0.5 kg 1.0 kg 2.0 kg 0.0 kg
Inner door		2.5 kg
Section door/double door	Width 400 mm, 600 mm Width 800 mm Width 1000 mm, 1200 mm	10.0 kg 5.0 kg 2.5 kg
Modular doors	Height 150-200 mm Height 250-350 mm Height 400-800 mm	0.5 kg 1.5 kg 3.0 kg
Outer cover		10.0 kg
Maximum expansion weight According to IEC 62208, Paragraph 9.3, 9.4, type test with static load by lifting a section		1200 kg
Operating conditions		
Ambient temperature ¹⁾		≤ 35 °C
Installation altitudes		≤ 2000 m
Rack components		2.5 mm – sheet steel, with 25 mm hole matrix according to DIN 43660
Dimensions		
Rack external dimensions	Height in mm Width in mm Depth in mm	2000 350, 400, 600, 800, 850, 1000, 1200 400, 600, 800
Bases	Height in mm	100, 200

¹⁾ Observe correction factors at other ambient temperatures and installation altitudes (see [Catalog LV 56](#), chapter 12 "Planning and configuration").

SIVACON S4 Power Distribution Boards

SIVACON S4 with 3VL molded case circuit breakers, section distribution busbar on the side

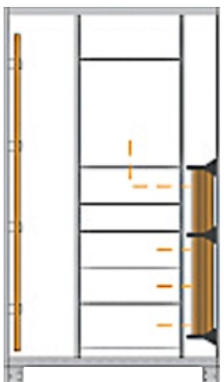
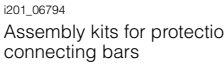
Overview

System data

Height × Width × Depth	mm	2000 × 1200 × 400
Base height	mm	100
Degree of protection		IP55
Main busbar system		None
Distribution busbar system		Staggered 1250 A, 50 kA
Front		Covers, section door
Form of internal partition		2b

Assembly kits

Infeeds	3VL 1250 molded case circuit breakers, cable from above, multi-conductor supply terminal, long terminal covers
Branches	3VL molded-case circuit breakers, long terminal covers, modular installation devices

	Order No.	Quantity	Description
	Rack, base, holder extension, enclosure		
	8PQ1 202-4BA02	1	Rack H2000/W1200/D400
	8PQ3 000-1BA38	2	Holder extension inner base area D400
	8PQ3 000-1BA43	2	Holder extension, external, for section door
	8PQ1 012-0BA01	1	Base corners with front panel H100/W1200
	8PQ1 010-4BA01	1	Base panel, side H100/D400
	8PQ2 000-6BA04	1	Masking frame, fixed H1800/W600
	8PQ2 197-2BA14	1	Outer panel IP55/H1975/W200
	8PQ2 197-6BA14	1	Glass door IP55/right/double-bit key/H1975/W600
	8PQ2 197-4BA05	1	Section door IP55/left/double-bit key/H1975/W400
	8PQ2 302-4BA04	1	Bottom plate IP55/W200/D400
	8PQ2 306-4BA05	1	Bottom plate IP55/W600/D400
	8PQ2 304-4BA05	1	Bottom plate IP55/W400/D400
	8PQ2 302-4BA01	1	Top plate IP55/W1200/D400
	8PQ2 420-2BA01	1	Rear panel IP55/H2000/W1200
	8PQ2 520-4BA01	1	Side panel with design strip/H2000/D400
	Busbar systems		
	8PQ4 000-0BA32	1	Distribution busbar holder, staggered/30 × 30
	8PQ4 000-0BA86	8	Copper bars, bright L2000/30 × 10
	8PQ4 000-0BA85	1	Copper bars, bright L2000/30 × 5
	Assembly kits for protection and switching devices, covers, modular device plates		
	8PQ2 020-6BA02	1	Cover 4 Measuring devices 1 Selector 72 × 72/H200/W600
	8PQ6 000-3BA11	1	Assembly kit 3VL7/3p,4p/vertical/fixed/H600/W600
	8PQ2 060-6BA03	1	Cover 3VL7/3,4p/vertical/fixed/H600/W600
	8PQ2 020-6BA01	1	Cover H200/W600
	8PQ6 000-3BA36	1	Assembly kit, modular installation device 1-row/24MW/W600
	8PQ2 015-6BA07	1	Cover, modular installation device, 1-row/24MW/H150/W600
	8PQ6 000-5BA02	2	Kit 3VL2-3/4p/horizontal/fixed/H200/W600
	8PQ2 020-6BA26	2	Cover 3VL1-3/4p/horizontal/fixed/plug-in/H200/W600
	8PQ6 000-2BA87	1	Assembly kit 3VL4/4p/horizontal/H250/W600
	8PQ2 025-6BA02	1	Cover 3VL4/4p/horizontal/fixed/plug-in/H250/W600
	Assembly kits for protection and switching devices, connecting bars		
	8PQ6 000-1BA64	2	Distribution busbar connection 3VL3/4p/horizontal/fixed
	8PQ6 000-1BA66	1	Distribution busbar connection 3VL4/4p/horizontal/fixed
	Form of internal partition		
	8PQ4 000-0BA06	1	Partition form 2b distribution busbars H1900/D400
	Accessories		
	8PQ9 400-0BA06	1	SIVACON, SIEMENS section labeling plate
	8PQ3 000-0BA38	1	Cable brackets, profile C30/D400 (600, 800)
	8PQ9 500-1BA36	1	Truss-head screw DIN 603/M10 × 55
	8PQ9 500-0BA05	1	Hexagon nut ISO 4032/M10
	8PQ9 500-0BA60	1	Tensioning washer DIN 6796/10
	8PQ9 400-0BA02	1	Busbar clamps
			Cable, wires, small items of equipment, screws, nuts, detent edged rings for cable connection

i201_06793

Rack, base, holder extension, enclosure

i201_06795

Busbar systems

i201_06794

Assembly kits for protection and switching devices, connecting bars

Switchboards

SIVACON S4 Power Distribution Boards

SIVACON S4 with 3WL air circuit breakers

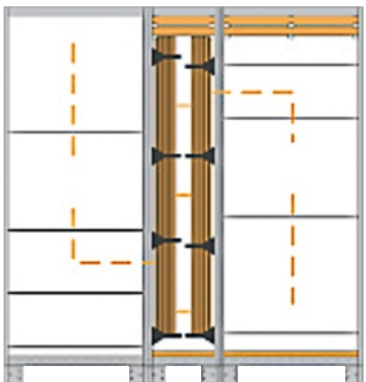
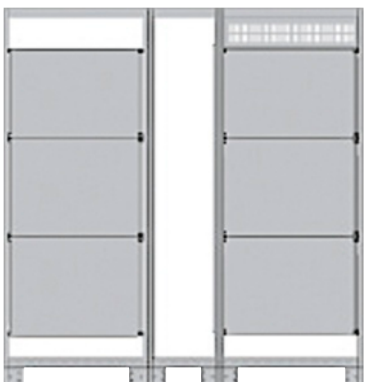
Overview

System data

Height x Width x Depth	mm	2000 x 2000 x 600
Base height	mm	100
Degree of protection		IP30
Main busbar system		Standard, top, 3200 A, 65 kA
Distribution busbar system		Staggered 2 x 1600 A
Front		Covers, rack cover
Form of internal partition		4b

Assembly kits

Infeed/outgoing feeder	3WL air circuit breakers, size II, fixed mounting connection to distribution busbars cable from below/above max. 12 cables per phase for cable lug M12
------------------------	--

	Order No.	Quantity	Description
 i201_06796	Rack, base, holder extension, enclosure		
	8PQ1 208-6BA01	2	Rack H2000/W800/D600
	8PQ1 204-6BA01	1	Rack H2000/W400/D600
	8PQ3 000-0BA01	2	Holder extension, inner H1600/D600
	8PQ3 000-0BA03	1	Holder extension, inner H1800/D600,800
	8PQ1 204-4BA05	2	Rack-rack attachment kit
	8PQ1 018-0BA01	2	Base corners with front panel H100/W800
	8PQ1 014-0BA01	1	Base corners with front panel H100/W400
	8PQ1 010-6BA01	1	Base panel, side H100/D600
	8PQ2 000-8BA03	2	Masking frame, fixed H1600/W800
	8PQ2 197-4BA02	1	Outer panel IP4X/H1975/W400
	8PQ2 197-8BA11	2	Rack cover IP3X/H1975/W800
	8PQ2 308-5BA05	1	Bottom plate IP55/W800/D600
	8PQ2 308-6BA06	1	Bottom plate IP4X/cable/W800/D600
	8PQ2 306-4BA05	1	Bottom plate IP55/W600/D400
	8PQ2 308-6BA03	1	Top plate IP4X/cable/W800/D600
	8PQ2 308-6BA02	1	Top plate IP4X/W800/D600
	8PQ2 304-6BA02	1	Top plate IP4X/W400/D600
	8PQ2 420-8BA02	2	Rear panel IP4X/H2000/W800
	8PQ2 420-4BA02	1	Rear panel IP4X/H2000/W400
	8PQ2 520-6BA01	1	Side panel with design strip/H2000/D600
 i201_06798	Busbar systems		
	8PQ4 000-0BA04	2	Holder, main busbars, 3200 A
	8PQ4 000-0BA37	1	Bracing, busbars
	8PQ4 000-0BA82	1	PE bar holder
	8PQ4 000-0BA63	2	Distribution busbar holder, staggered/30 x 40
	8PQ4 000-0BA48	2	Joints distribution busbar/right/30 x 40/D600, 800
	8PQ4 000-0BA18	16	Copper bars, bright L2000/50 x 10
	8PQ4 000-0BA17	16	Copper bars, bright L2000/40 x 10
	8PQ4 000-0BA80	2	Copper bars, bright L2000/40 x 5
	Assembly kits for protection and switching devices, covers, modular device plates		
 i201_06797	8PQ6 000-3BA32	2	Assembly kit 3WL11,12/3,4p/H550/W800
	8PQ2 055-8BA05	2	Cover 3WL12/4p/H550/W800
	8PQ2 055-8BA01	2	Cover H550/W800
	8PQ2 050-8BA01	2	Cover H500/W800
	Assembly kits for protection and switching devices, connecting bars		
	8PQ6 000-0BA47	2	Distribution busbar connection 3WL1232/fixed/W800
	8PQ6 000-0BA65	2	Cable connection 3WL1232/fixed/W800
	Form of internal partition		
	8PQ3 000-0BA54	1	Partition form 2b main busbar/W800/D600
	8PQ4 000-0BA03	1	Partition form 2b distribution busbars H1900/D600
	8PQ4 000-0BA07	1	Partition form 2b distribution busbars H1600/D600
	8PQ3 000-0BA82	2	Plug-in strip for partition H1600
	8PQ5 000-0BA10	2	Partition form 3 3WL12/3,4p/infeed/H550/W800
	8PQ5 000-0BA21	2	Partition form 4 3WL12/3,4p/distribution/W800
	8PQ5 000-0BA38	2	Partition form 4 3WL12/3,4p/cable/W800
	Accessories		
	8PQ9 400-0BA06	1	SIVACON, SIEMENS section labeling plate
	8PQ9 400-0BA02	3	Busbar clamps
	8PQ9 500-0BA16	1	Truss-head screw DIN 603/M10 x 45
	8PQ9 500-1BA25	2	Truss-head screw DIN 603/M10 x 65
	8PQ9 500-0BA60	3	Tensioning washer DIN 6796/10
	8PQ9 500-0BA05	3	Hexagon nut ISO 4032 M10
	8PQ3 000-0BA73	2	Holder for cable brackets
	8PQ3 000-0BA43	2	Cable brackets, profile C30/W800
	Cable, wires, small items of equipment, screws, nuts, detent edged rings for cable connection		

Assembly kits for protection and switching devices, covers, modular device plates

Switchboards

SIVACON S4 Power Distribution Boards

SIVACON S4 with protection and switching devices and modular installation devices

Overview

System data

Height × Width × Depth	mm	2000 × 2200 × 600
Base height	mm	100
Degree of protection		IP30
Main busbar system		None
Distribution busbar system		Staggered 1600 A, 50 kA, 50-mm system
Front		Covers, glass door
Form of internal partition		4b

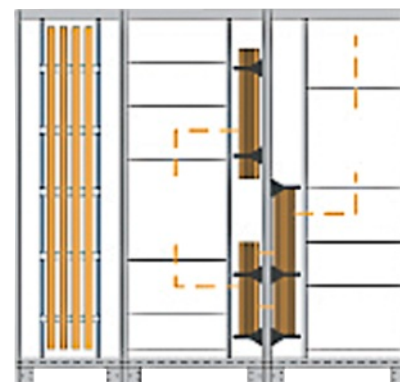
Assembly kits

Infeeds	3WL air circuit breakers, size I, fixed mounting connection to main busbars, cable from below/above in the center
Branches	3VL molded case circuit breakers with rear connection pieces for the cable connection from the rear modular installation devices



i201_06802

Rack, base, holder extension, enclosure



i201_06804

Busbar systems



i201_06803

Assembly kits for protection and switching devices, covers, modular device plates

Order No.	Quantity	Description
Rack, base, holder extension, enclosure		
8PQ1 206-6BA01	1	Rack H2000/W600/D600
8PQ1 208-6BA01	2	Rack H2000/W800/D600
8PQ3 000-1BA40	2	Holder extension, inner base area D600
8PQ3 000-0BA03	3	Holder extension, inner H1800/D600,800
8PQ3 000-1BA36	2	Holder extension, inner partition H1800/D600
8PQ3 000-1BA42	2	Holder extension, outer, for cover
8PQ1 204-4BA05	2	Rack-rack attachment kit
8PQ1 016-0BA01	1	Base corners with front panel H100/W600
8PQ1 018-0BA01	2	Base corners with front panel H100/W800
8PQ1 010-6BA01	1	Base panel, side H100/D600
8PQ2 000-6BA04	3	Masking frame, fixed H1800/W600
8PQ2 000-2BA01	2	Inner panel IP3X/H2000/W200
8PQ2 197-6BA10	1	Glass door IP55/left/double-bit key/H1975/W600
8PQ2 197-8BA10	2	Glass door IP55/left/double-bit key/H1975/W800
8PQ2 302-6BA04	2	Bottom plate IP55/W200/D600
8PQ2 306-6BA05	3	Bottom plate IP55/W600/D600
8PQ2 306-6BA02	1	Top plate IP4X/W600/D600
8PQ2 308-6BA02	2	Top plate IP4X/W800/D600
8PQ2 420-6BA02	1	Rear panel IP4X/H2000/W600
8PQ2 420-8BA02	2	Rear panel IP4X/H2000/W800
8PQ2 520-6BA01	1	Side panel with design strip/H2000/D600
Busbar systems		
8PQ4 000-0BA63	2	Distribution busbar holder, staggered/30 × 40
8PQ4 000-0BA82	1	PE bar holder
8GF5 762	4	Busbar holder 20 × 5, 50 mm
8PQ4 000-0BA17	16	Copper bars, bright L2000/40 × 10
8PQ4 000-0BA83	9	Copper bars, bright L2000/20 × 5
Assembly kits for protection and switching devices, covers, modular device plates		
8PQ6 000-3BA31	2	Assembly kit 3WL11/3,4p/3WL12/3p/H550/W600
8PQ2 055-6BA07	2	Cover 3WL11/4p/H550/W600
8PQ6 000-2BA87	2	Assembly kit 3VL4/4p/horizontal/H250/W600
8PQ2 025-6BA02	2	Cover 3VL4/4p/horizontal/fixed/plug-in/H250/W600
8PQ6 000-5BA02	2	Kit 3VL2-3/4p/horizontal/fixed/H200/W600
8PQ2 020-6BA26	2	Cover 3VL1-3/4p/horizontal/fixed/plug-in/H200/W600
8PQ6 000-3BA10	1	Assembly kit 3VL5/4p/horizontal/H350/W600
8PQ2 035-6BA04	1	Cover 3VL5/4p/horizontal/fixed/plug-in/H350/W600
8PQ6 000-3BA36	6	Assembly kit, modular installation device 1-row/24MW/W600
8PQ2 020-6BA12	6	Cover, modular installation device 1-row/24MW/H200/W600
8PQ3 000-1BA65	1	Modular mounting plate/closed/H600/W600
8PQ2 040-6BA01	1	Cover H400/W600
8PQ2 060-6BA01	1	Cover H600/W600
8PQ2 030-6BA01	2	Cover H300/W600
8PQ2 025-6BA01	1	Cover H250/W600
Assembly kits for protection and switching devices, connecting bars		
8PQ6 000-0BA34	3	Distribution busbar connection 3WL1116/fixed/W600
8PQ6 000-0BA52	1	Cable connection 3WL1116/fixed/W600
8PQ6 000-1BA64	2	Distribution busbar connection 3VL3/4p/horizontal/fixed
8PQ6 000-1BA66	2	Distribution busbar connection 3VL4/4p/horizontal/fixed
8PQ6 000-1BA68	1	Distribution busbar connection 3VL5/4p/horizontal/fixed
Form of internal partition		
8PQ4 000-0BA03	2	Partition form 2b distribution busbars H1900/D600
8PQ3 000-0BA83	3	Plug-in strip for partition H1800
8PQ5 000-2BA61	7	Partition form 3 horizontal/W600
8PQ5 000-2BA57	1	Partition form 3 vertical/rear/H350/W600
8PQ5 000-2BA36	1	Partition form 3 vertical/side/H350
8PQ5 000-2BA54	2	Partition form 3 vertical/rear/H200/W600
8PQ5 000-2BA30	2	Partition form 3 vertical/side/...250A/H200
8PQ5 000-0BA07	2	Partition form 3 3WL11/3,4p/infeed/H550/W600
8PQ5 000-0BA30	3	Partition form 4 3WL11/3,4p/cable/W600
8PQ5 000-0BA14	1	Partition form 4 3WL11/3,4p/distribution/W600
8PQ5 000-2BA55	2	Partition form 3 vertical/rear/H250/W600
8PQ5 000-2BA33	2	Partition form 3 vertical/side/400...630 A/H250
8PQ9 400-0BA03	5	Expansion bellows

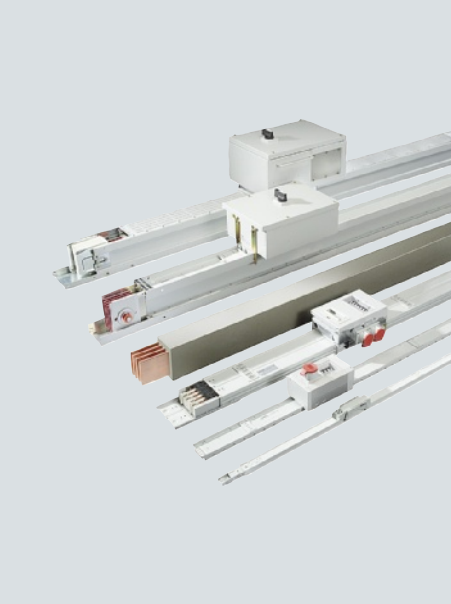
Switchboards

SIVACON S4 Power Distribution Boards

SIVACON S4 with protection and switching devices and modular installation devices

	Order No.	Quantity	Description
Accessories			
	8PQ9 400-0BA06	2	SIVACON, SIEMENS section labeling plate
	8PQ9 400-0BA02	2	Busbar clamps
	8PQ9 500-1BA25	2	Truss-head screw DIN 603/M10 × 65
	8PQ9 500-0BA60	2	Tensioning washer DIN 6796/10
	8PQ9 500-0BA05	2	Hexagon nut ISO 4032 M10
	8PQ3 000-0BA73	1	Holder for cable brackets
	8PQ3 000-0BA42	1	Cable brackets, profile C30/W600
			Screws, nuts, detent edged rings for customer cable connection

Busbar Trunking Systems

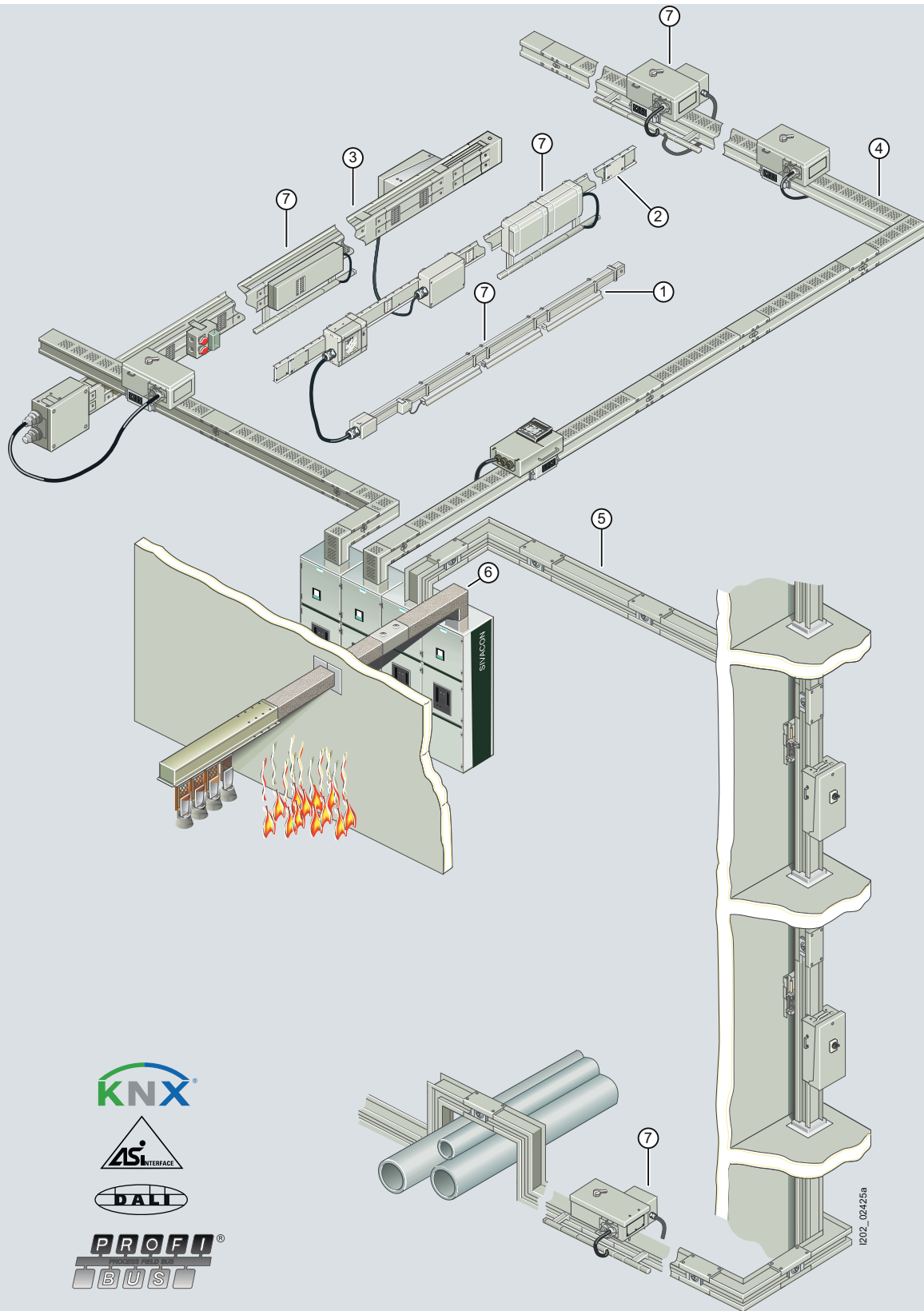


	Introduction¹⁾
15/2	Introduction
15/6	Features overview
15/8	Principles of busbar trunking planning
	CD-K System – 25 ... 40 A¹⁾
15/9	Introduction
15/11	Trunking units
15/13	Feeder units
15/14	Tap-off plugs
15/15	Accessories
	BD01 System – 40 ... 160 A¹⁾
15/17	Introduction
15/18	Trunking units
15/19	Junction units, feeder units
15/20	Tap-off units for international use
15/26	Ancillary equipment units for international use
15/28	Accessories
	BD2 System – 160 ... 1250 A¹⁾
15/31	Introduction
15/33	Trunking units
15/41	Junction units
15/57	Feeder units
15/61	Tap-off units for international use
15/70	Ancillary equipment units for international use
15/71	Accessories
	¹⁾ Additional information in Catalog LV 70.
	More technical product information:
	<u>Installation Manual</u>
	SIVACON 8PS - Installation with BD2 system Order No.: A5E02126899-02
	<u>Planning manual</u>
	SIVACON 8PS - Planning with SIVACON 8PS Order No.: A5E01541101-02
	<u>Service&Support portal:</u> www.siemens.com/lowvoltage/technical-support
	→ Product list: Technical specifications
	→ Entry list: Updates / Downloads / FAQs Manuals / Operating instructions / Characteristic curves / Certificates

Busbar Trunking Systems

Introduction

Overview



KNX®

ASI
INTERFACE

DALI

PROFI®
PROCESS FIELD BUS
BUS

- ① CD-K system
- ② BD01 system
- ③ BD2 system

- ④ LD system
- ⑤ LX system
- ⑥ LR system

- ⑦ Communication-capable busbar trunking systems

1202_02425a

Benefits

① CD-K system up to 40 A

The versatile busbar trunking system for area-wide power distribution of lighting systems:

- Versatile thanks to high degree of protection up to IP55
- Lower planning costs through simple configuration
- Time-saving mounting through plug-in quick connector
- Flexibility through free phase selection and codable tap-off points
- Uniform current loading of the conductors through splitting of the subsequent tap-off plugs among the individual phases
- Tap-off plugs allow fast and flexible load relocation

② BD01 system up to 160 A

The busbar trunking system for power distribution in the craft business and the skilled trades:

- High degree of protection up to IP55
- Flexible power supply
- Easy and quick planning
- Time-saving mounting
- Reliable mechanical and electrical connection technology
- High stability, low weight
- Few basic modules required
- Storage-friendly system
- Variable changes of direction
- Versatile tap-off units
- Positive opening and closing of tap-off points

③ BD2 system up to 1250 A

The busbar trunking system for operation in the harsh industrial world:

- High degree of protection up to IP55
- Easy and quick planning
- Time-saving and economical mounting
- Reliable and safe operation
- Flexible modular system with simple solutions for every application
- Early planning of the power distribution system without exact knowledge of load locations
- Early readiness for operation thanks to fast and simple mounting
- Innovative design: No more compensation boxes to compensate elongation.
- Codable tap-off units and tap-off points
- Sealable throughout

④ LD system up to 5000 A

The busbar trunking system for optimized power distribution in industry:

- Quick and easy mounting
- Reliable and safe operation
- Space-saving, compact design up to 5000 A in one enclosure
- Load outgoing feeders up to 1250 A
- Type-tested connection to distribution boards and transformers

⑤ LX system up to 6300 A¹⁾

The busbar trunking system for power transmission and distribution in buildings:

- Quick and easy mounting
- Reliable and safe operation
- Load outgoing feeders up to 1250 A
- Type-tested connection to distribution boards and transformers
- Available on request

¹⁾ Rated current 6300 A on request.

⑥ LR system up to 6150 A

The busbar trunking system for power transmission under extreme ambient conditions (IP68).

[Detailed information about this system is available from the Siemens branch located close to you.](#)

⑦ Communication-capable busbar trunking systems

Communication-capable function expansions for combination with known tap-off units:

- Can be used with the BD01, BD2, LD and LX systems
- Applications:
 - Lighting control for large areas
 - Remote switching and signaling in the industrial sector
 - Consumption recording of decentral power tap-off units
- Connection to the bus systems KNX (EIB/Instabus), AS-Interface and PROFIBUS
- Easy contacting of the bus cable by insulation piercing method
- Easy and quick planning
- Flexible expansions and modifications
- Module system
- Retrofitting of existing installations

More information

Catalog LV 70 - Busbar Trunking Systems CD-K, BD01, BD2 up to 1250 A

German:	Order No. E86060-K1870-A101-A6
English:	Order No. E86060-K1870-A101-A6-7600
French:	Order No. E86060-K1870-A101-A6-7700
Spanish:	Order No. E86060-K1870-A101-A6-7800

Selection aid for busbar trunking systems (MobileSpice)

Busway systems up to 1250 A can be ordered using the selection aid.

The following configurators are available:

- SIVACON 8PS CD-K system, 25 ... 40 A
- SIVACON 8PS BD01 system, 40 ... 160 A
- SIVACON 8PS BD2 system, 160 ... 1250 A

This selection aid can be accessed through the Industry Mall and is also included in the interactive catalog CA 01 on a DVD, which is available free of charge.

Manuals

Planning with SIVACON 8PS - busbar trunking systems up to 6300 A

German:	Order No. A5E 01541017-01
English:	Order No. A5E 01541101-01

Leaflet

German: Damit die Energie sicher fließt - Schienenverteiler-Systeme SIVACON 8PS
Bestell-Nr. E10003-E38-9B-D0010

English: For safe power flows - SIVACON 8PS busbar trunking systems
Order No. E10003-E38-9B-D0010-7600

Busbar Trunking Systems

Introduction

EC declaration of conformity

SIEMENS Nr: **EC 0006.01**

EG-Konformitätserklärung
EC-Declaration of Conformity

Wir Siemens AG / I BT LV DS BS / Köln
(Name des Herstellers / manufacturer's name)

Frohnhoferstraße 103-107
D- 50827 Köln
(Hersteller's address)

Diese Konformitätserklärung entspricht der Europäischen Norm EN 45014 "Allgemeine Kriterien für Konformitätserklärungen von Anbietern" und dem ISO/IEC-Leitfaden 22:1996, "General criteria for supplier's declaration of conformity". Diese Erklärung bescheinigt die Übereinstimmung mit den genannten Richtlinien, bei jedoch keine Beschaffenheits- oder Haltbarkeitsgarantie nach §443 BGB.

Die Sicherheitsanweisungen der mitgelieferten Produktdokumentation sind zu beachten.

This Declaration of Conformity is in compliance with the European Standard EN 45014 "General criteria for supplier's declaration of conformity", and the ISO/IEC Guide 22:1996, "General criteria for supplier's declaration of conformity". This declaration certifies the compliance with the indicated directives but implies no warranty of properties. The safety instructions of the accompanying product documentation shall be observed.

Gerät SIVACON 8PS – CD-K...
Device SIVACON 8PS – CD-K-A...
gesamtes System / complete system

(Beschreibung, Typ oder Modell / name, type or model)

mit folgenden Europäischen Richtlinien übereinstimmt (übereinstimmen):
is (are) in conformity with the following directives:

Niederspannungsrichtlinie Nr.: 2006/95/EG
Low Voltage Directive No.: 2006/95/EC

EMV-Richtlinie Nr.: 2004/108/EG
EMC Directive No.: 2004/108/EG

CE-Kennzeichnung seit / CE marking since: 2000

Dies wird nachgewiesen durch die Einhaltung folgender Norm(en):
This is documented by the following standard(s):

IEC 60439-1 Edition 4.1 2004-04
IEC 60439-2 Edition 3.1 2005-10
EN 60439-1:1999 + A1:2004
EN 60439-2:2000 + A1:2005
VDE 0660 Teil 500 Januar 2005
VDE 0660 Teil 502 Juli 2006

(Titel und/oder Nr. sowie Ausgabejahr der Norm(en) oder der anderen normativen Dokumente)
(Title and/or number and date of issue of the standard(s) or other normative document(s))

Siemens Aktiengesellschaft

Köln, 02.02.2010
(Ort und Datum der Ausstellung)
(Place and date of issue)

i.V. A. Leuchtenberg i.V. R. Gensel
(Name, Funktion und Unterschrift des Befugten / Name, function and signature of authorized person)

A. Leuchtenberg R. Gensel
Leiter / BT LV DS BS BA
(Name, Funktion und Unterschrift des Befugten / Name, function and signature of authorized person)

SIEMENS Nr: **EC 0008.01**

EG-Konformitätserklärung
EC-Declaration of Conformity

Wir Siemens AG / I BT LV DS BS / Köln
(Name des Herstellers / manufacturer's name)

Frohnhoferstraße 103-107
D- 50827 Köln
(Hersteller's address)

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Die Sicherheitsanweisungen der mitgelieferten Produktdokumentation sind zu beachten.

This Declaration of Conformity is in compliance with the European Standard EN 45014 "General criteria for supplier's declaration of conformity", and the ISO/IEC Guide 22:1996, "General criteria for supplier's declaration of conformity". This declaration certifies the compliance with the indicated directives but implies no warranty of properties. The safety instructions of the accompanying product documentation shall be observed.

Gerät SIVACON 8PS – BD01...
Device SIVACON 8PS – BD01-AK...
gesamtes System / complete system

(Beschreibung, Typ oder Modell / name, type or model)

mit folgenden Europäischen Richtlinien übereinstimmt (übereinstimmen):
is (are) in conformity with the following directives:

Niederspannungsrichtlinie Nr.: 2006/95/EG
Low Voltage Directive No.: 2006/95/EC

EMV-Richtlinie Nr.: 2004/108/EG
EMC Directive No.: 2004/108/EG

CE-Kennzeichnung seit / CE marking since: 1995

Dies wird nachgewiesen durch die Einhaltung folgender Norm(en):
This is documented by the following standard(s):

IEC 60439-1 Edition 4.1 2004-04
IEC 60439-2 Edition 3.1 2005-10
EN 60439-1:1999 + A1:2004
EN 60439-2:2000 + A1:2005
VDE 0660 Teil 500 Januar 2005
VDE 0660 Teil 502 Juli 2006

(Titel und/oder Nr. sowie Ausgabejahr der Norm(en) oder der anderen normativen Dokumente)
(Title and/or number and date of issue of the standard(s) or other normative document(s))

Siemens Aktiengesellschaft

Köln, 02.02.2010
(Ort und Datum der Ausstellung)
(Place and date of issue)

i.V. A. Leuchtenberg i.V. R. Gensel
(Name, Funktion und Unterschrift des Befugten / Name, function and signature of authorized person)

A. Leuchtenberg R. Gensel
Leiter / BT LV DS BS BA
(Name, Funktion und Unterschrift des Befugten / Name, function and signature of authorized person)

SIEMENS

Nr: **EC 0009.01**

EG-Konformitätserklärung
EC-Declaration of Conformity

Wir **Siemens AG / I BT LV DS BS / Köln**
(Name des Herstellers / manufacturer's name)

Frohnhoferstraße 103-107
D- 50827 Köln
(Anschrift / address)

Diese Konformitätserklärung entspricht der Europäischen Norm EN 45014 "Allgemeine Kriterien für Konformitätserklärungen von Anbietern" und dem ISO/IEC-Leitfaden 22:1996 "General criteria for supplier's declaration of conformity". Diese Erklärung bescheinigt die Übereinstimmung mit den gesamten Richtlinien, hat jedoch keine Beschaffenheits- oder Haltbarkeitsgarantie nach §443 BGB. Die Sicherheitshinweise der mitgelieferten Produktdokumentation sind zu beachten.

Gerät SIVACON 8PS – BD2A(C)...
Device SIVACON 8PS – BD2-AK...
gesamtes System / complete system
(Beschreibung, Typ oder Modell / name, type or model)

erklären in alleiniger Verantwortung, dass das (die) Produkt(e) **mit folgenden Europäischen Richtlinien übereinstimmt (übereinstimmen):**
declares under our sole responsibility that the product(s) is (are) in conformity with the following directives:

Niederspannungsrichtlinie Nr.: 2006/95/EG
Low Voltage Directive No.: 2006/95/EC

EMV-Richtlinie Nr.: 2004/108/EG
EMC Directive No.: 2004/108/EG

CE-Kennzeichnung seit / CE marking since: 1995

Dies wird nachgewiesen durch die Einhaltung folgender Norm(en):
This is documented by the accordance with the following standard(s):

IEC 60439-1 Edition 4.1 2004-04
IEC 60439-2 Edition 3.1 2005-10
EN 60439-1:1999 + A1:2004
EN 60439-2:2000 + A1:2005
VDE 0660 Teil 500 Januar 2005
VDE 0660 Teil 502 Juli 2006

(Für und/oder Nr. sowie Ausgabedatum der Norm(en) oder der anderen normativen Dokument(e))
(Title and/or number and date of issue of the standard(s) or other normative document(s))

Köln, 02.02.2010
(Ort und Datum der Ausstellung)
(Place and date of issue)

Siemens Aktiengesellschaft

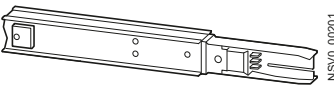
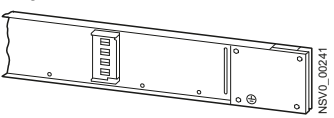
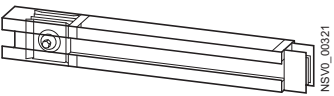
i.V. A. Leuchtenberg
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(Name, Funktion und Unterschrift des Befugten / Name, function and signature of authorized person)

i.V. R. Gensel
Leiter I BT LV DS BS
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Busbar Trunking Systems

Features overview

Overview

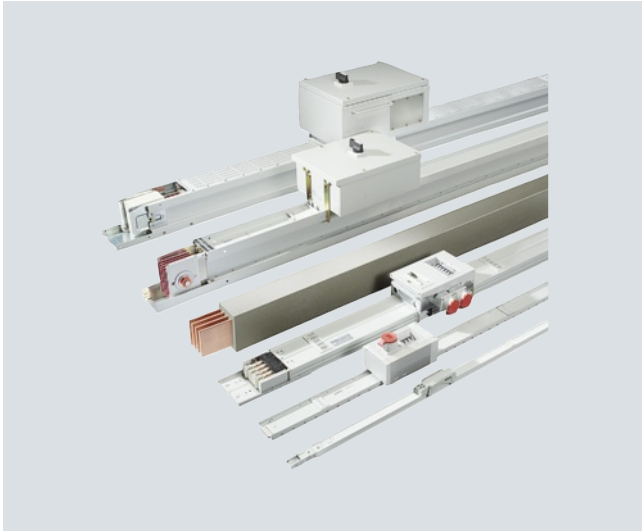
Busbar trunking systems	Rated current	Rated operational voltage	Frequency	Number of active conductors	Degree of protection	Ambient temperature, min./max. °C
A	V AC	Hz				
CD-K  NSV0_00201	30 40 2 × 25 2 × 40	400	50	On one side: 2, 3, 4 On two sides: 2 × 4, 1 × 4 + 1 × 2 (PE = enclosure)	Up to IP55	–5/+40
BD01  NSV0_00241	40 63 100 125 160	400	50	4 (PE = enclosure)	Up to IP55	–5/+40
BD2A BD2C  NSV0_00421	160 ... 1000 160 ... 1250	690	50	5	Up to IP55	–5/+40
LDA1 ... LDA8 LDC2 ... LDC8  NSV0_00681	1100 ... 4000 2000 ... 5000	1000	50	4 or 5	up to IP54	–5/+40
LXA01 ... LXA10 LXC01 ... LXC10  NSV0_00321	800 ... 4500 1000 ... 6300 ¹⁾	1000	50	3, 4, 5, 6 (PE = enclosure)	Up to IP55	–5/+40
LRA01 ... LRA29 LRC01 ... LRC29  NSV0_01451	400 ... 4600 630 ... 6150	1000	50	4, 5	IP68	–5/+40

¹⁾ Rated current 6300 A on request.

Mounting position	Length m	Tap-off points	Tap-off units	Material	Fire load kWh/m	Can be combined with communication-capable tap-off units for
Edgewise	2 3	On one side: every 0.5 or 1 m On two sides: every 0.5 or 1 m	Up to 16 A	Insulated Cu conductors, painted sheet- steel enclosure	0.1 ... 0.48	--
Edgewise, flat (tap-off points downwards)	2 3	On one side every 0.5 or 1 m	Up to 63 A	Insulated Al or Cu conductors, painted sheet- steel enclosure	0.76	Lighting control
Edgewise, flat and vertical	0.5 ... 3.25	Without On two sides offset every 0.25 or 0.5m	Up to 530 A	Al or Cu busbars, painted sheet- steel enclosure	0.6 ... 0.67 (without tap-off points)	Lighting control, remote switching, signaling and consumption recording
Horizontal, edgewise and vertical	0.5 ... 3.2	Without On one side every 1 m On two sides every 1 m	Up to 1250 A	Insulated Al or Cu busbars, painted sheet- steel enclosure	4.16 ... 8.83 (without tap-off points)	Remote switching and signaling and consumption recording
Horizontal, edgewise and vertical	0.35 ... 3	Without On one side every 0.5 m On two sides every 0.5 m	Up to 1250 A	Insulated Al or Cu busbars, painted alumin- ium enclosure	1.95 ... 11.07 (without tap-off points)	Remote switching and signaling and consumption recording
Horizontal, edgewise and vertical	0.5 ... 3	Without Selectable on one side	Up to 630 A	Epoxy resin system, Cu busbars	--	--

Principles of busbar trunking planning

Overview



Trunking units for currents from 40 to 6300 A

When it comes to developing a power distribution concept complete with the configuration of systems and system components, the end user's requirements have to be coordinated with the manufacturer's possibilities.

Descriptions are provided accordingly of the individual systems, their technical features and their fields of application. Another element is the graphic representation of the various busbar trunking elements. All details of importance for the planning work are emphasized and explained.

You will find ideas for a ready-to-use planning solution under "Configuration information" in Chapters 3 to 5 of Catalog LV 70. For example, the basics of dimensioning are presented in detail along with in-depth information on topics such as system construction, short-circuit protection, fire protection and functional maintenance.

Services and engineering tools are available from Siemens to simplify the drawing up of customer specifications.

General information

When developing the planning concept of a power supply system it is necessary not only to consider the standards and specifications in force, but also to clarify the correlations between economy and technology. Electrical equipment such as distribution boards and transformers must be dimensioned and selected so that they represent an optimum in their entirety and not just individually.

All components must be sufficiently dimensioned for the loads which arise in the event of a fault as well as during operation at rated values. Other decisive points to be considered when drawing up the power concept are:

- The type, utilization and shape of building (e.g. high-rise, flat-roof and number of storeys)
- Determination of load centers and selection of possible supply routes and locations for transformers and main distribution boards
- Determination of building-related connected loads according to specific loads per unit area dependent on the building's use
- Specifications and requirements imposed by the building authorities
- Requirements imposed by the power supply companies

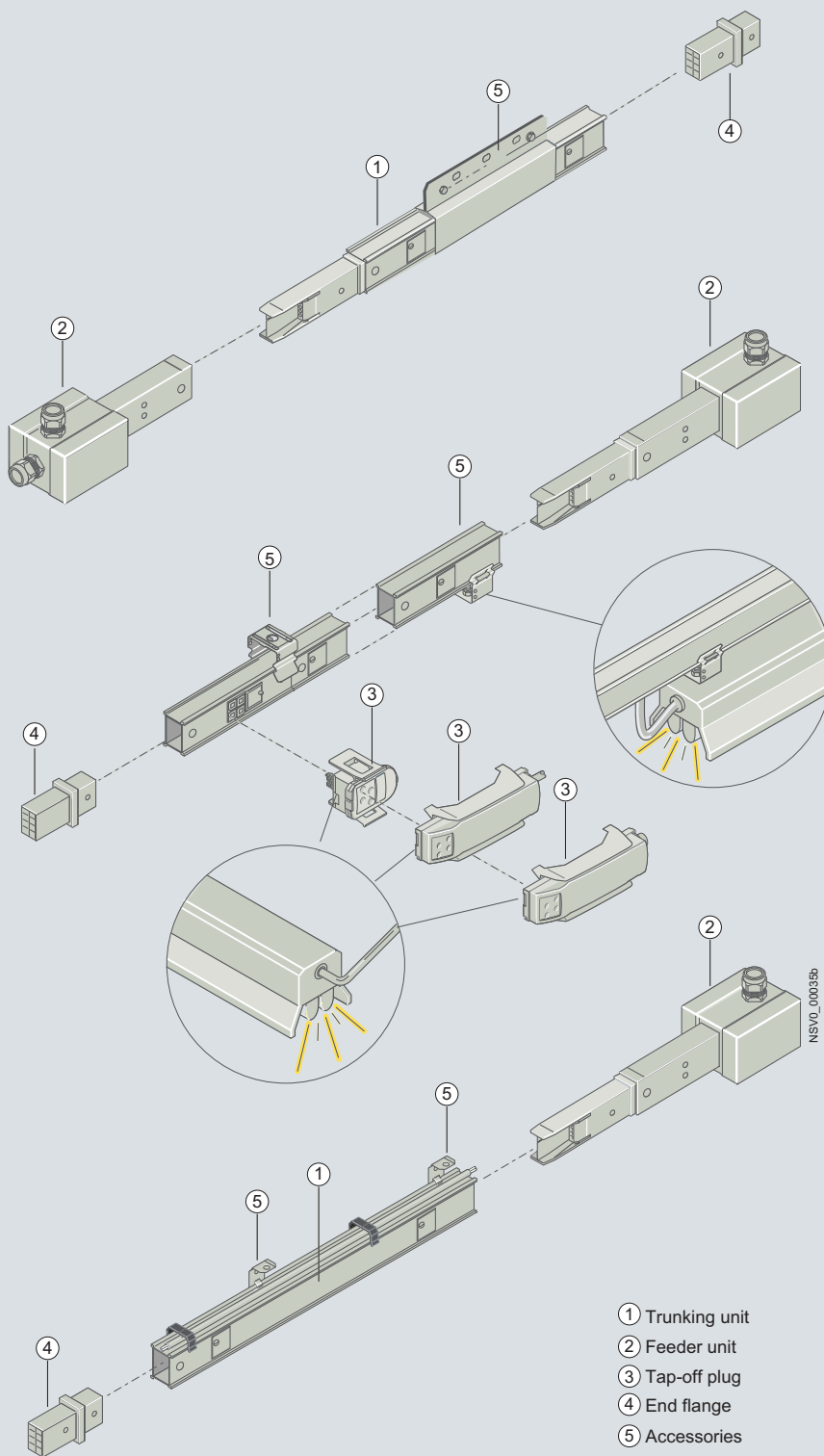
The result will never be a single solution but several versions which must be assessed with regard to their technical and economic implications. The following requirements are paramount in this connection:

- Easy and clear-cut planning
- Long endurance
- High availability
- Low fire load
- Flexible adaptation to changes within the building.

In most applications these requirements are easily met by the use of suitable busbar trunking systems. For this reason, busbar trunking systems rather than the cable installation method is being used more and more often by engineering offices for the transmission and distribution of power. Siemens offers busbar trunking systems from 25 to 6300 A:

- The CD-K busbar trunking system with 25 to 40 A for supplying power to lights and miniature loads
- The BD01 busbar trunking system from 40 to 160 A for supplying power to workshops with tap-off units up to 63 A
- The BD2 system from 160 to 1250 A for supplying power to medium-size loads in buildings and in industry
- The ventilated LD system for supplying loads with medium power consumption in industry
- The LX sandwich system for power distribution of large amounts of power in buildings
- The LR encapsulated system for power transmission in extreme ambient conditions (IP68).

Overview



Busbar Trunking Systems

CD-K System – 25 ... 40 A

Introduction

Version

Type-tested low-voltage switchgear and controlgear assembly (TTA) according to

- IEC/EN 60439-1
- IEC/EN 60439-2

Degree of protection

- High degree of protection to IP54 of the standard version
- Increase to IP55 with accessories

Components

Trunking units

- 3-, 4-, 5- and 3/5-conductor system
- Equipment on one side:
 - 2 or 3 tap-off units spaced 1 m apart
 - 5 outgoing feeders spaced 0.5 m apart
- Equipment on two sides:
 - 2, 3 or 5 outgoing feeders spaced 1 m apart
 - 2, 3 or 5 outgoing feeders spaced 0.5 m apart
- Lengths of 2 m and 3 m
- Plug-in connection
- Codable tap-off points

Feeder units

- Entry feeder units
- End feeder units

Tap-off plugs

- 3-pole, 10 A and 16 A, Lx (phase can be plugged over optionally to L1, L2, L3), N and PE
- 5-pole, 10 A and 16 A, L1, L2, L3, N, PE

Accessories

- End flanges
- Fixing brackets
- Suspension hooks
- Suspension brackets
- Cable fixtures
- Coding sets
- Degree of protection IP55

Benefits

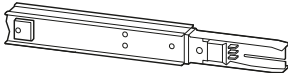
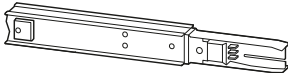
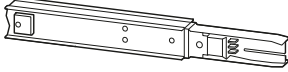
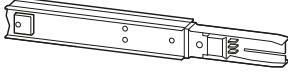
- Lower planning costs through simple configuration
- Time-saving mounting through plug-in quick connector
- Tap-off points on two sides for optimized utilization of the busbar line
- Uniform current loading of the conductors through splitting of the subsequent tap-off plugs among the individual phases
- Tap-off plugs allow fast and flexible load relocation
- Accessories for increasing the degree of protection to IP55 for extreme environmental conditions

Busbar Trunking Systems

CD-K System – 25 ... 40 A

Trunking units

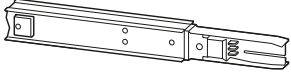
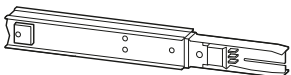
Selection and ordering data

Version	Length	Conduc- tors	Tap-off points		DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.	
	m		Num- ber	Dis- tance	m							kg	
Rated current $I_n = 30$ A, one-sided tap-off points													
Trunking units Sheet-steel enclosure, color similar to RAL 9002 (white-gray), codable tap-off points 	3	3-pole	3	1		CD-K-1302-3	BVP:211151		1	6 units	165	2.450	
		3	4-pole	3	1		CD-K-1303-3	BVP:211152		1	6 units	165	2.550
		2	5-pole	2	1		CD-K-1304-2	BVP:211153		1	6 units	165	1.850
		3	5-pole	3	1		CD-K-1304-3	BVP:211154		1	6 units	165	2.650
		3	5-pole	5	0.5		CD-K-1304-3-05	BVP:211155		1	6 units	165	2.650
Rated current $I_n = 40$ A, one-sided tap-off points													
Trunking units Sheet-steel enclosure, color similar to RAL 9002 (white-gray), codable tap-off points 	3	3-pole	3	1		CD-K-1402-3	BVP:211156		1	6 units	165	2.450	
		3	4-pole	3	1		CD-K-1403-3	BVP:211157		1	6 units	165	2.550
		2	5-pole	2	1		CD-K-1404-2	BVP:211158		1	6 units	165	1.850
		3	5-pole	3	1		CD-K-1404-3	BVP:211159		1	6 units	165	2.650
		3	5-pole	5	0.5		CD-K-1404-3-05	BVP:211160		1	6 units	165	2.850

Busbar Trunking Systems

CD-K System – 25 ... 40 A

Trunking units

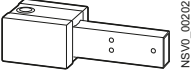
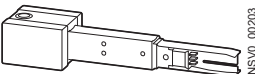
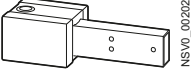
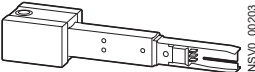
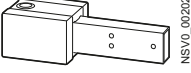
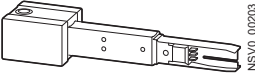
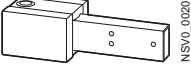
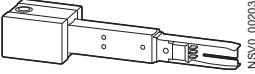
Version	Length	Conduc- tors	Tap-off points		DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	m		Num- ber	Dis- tance								kg
Rated current $I_n = 2 \times 25$ A, double-sided tap-off points												
Trunking units Sheet-steel enclosure, color similar to RAL 9002 (white-gray), codable tap-off points 	2	2 × 5-pole	2; 1	1		CD-K-2254-2	BVP:211161		1	6 units	165	2.350
												
	3	2 × 5-pole	3; 2	1		CD-K-2254-3	BVP:211162		1	6 units	165	3.650
												
	3	2 × 5-pole	5; 5	0.5		CD-K-2254-3-05	BVP:211163		1	6 units	165	3.650
												
	2	5- + 3-pole	2; 1	1		CD-K-2254/2-2	BVP:610352		1	6 units	165	2.350
												
	3	5- + 3-pole	3; 2	1		CD-K-2254/2-3	BVP:610353		1	6 units	165	3.650
												
3	5- + 3-pole	5; 5	0.5		CD-K-2254/2-3-05	BVP:610354		1	6 units	165	3.650	
												
Rated current $I_n = 2 \times 40$ A, double-sided tap-off points												
Trunking units Sheet-steel enclosure, color similar to RAL 9002 (white-gray), codable tap-off points 	2	2 × 5-pole	2; 1	1		CD-K-2404-2	BVP:610001		1	6 units	165	2.350
												
	3	2 × 5-pole	3; 2	1		CD-K-2404-3	BVP:610002		1	6 units	165	3.650
												
	3	2 × 5-pole	5; 5	0.5		CD-K-2404-3-05	BVP:610003		1	6 units	165	3.650
												
	2	5- + 3-pole	2; 1	1		CD-K-2404/2-2	BVP:610357		1	6 units	165	2.350
												
	3	5- + 3-pole	3; 2	1		CD-K-2404/2-3	BVP:610358		1	6 units	165	3.650
												
3	5- + 3-pole	5; 5	0.5		CD-K-2404/2-3-05	BVP:610359		1	6 units	165	3.650	
												

Busbar Trunking Systems

CD-K System – 25 ... 40 A

Feeder units

Selection and ordering data

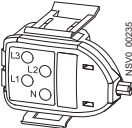
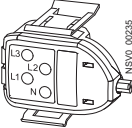
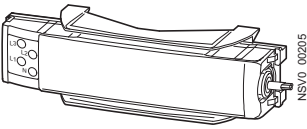
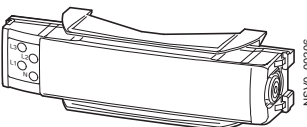
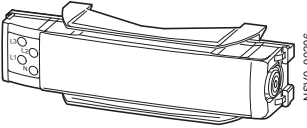
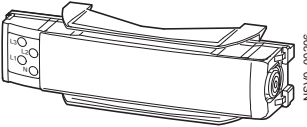
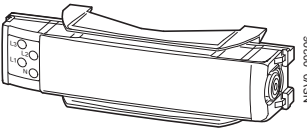
Version	Length m	Conductors	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Feeder units incl. CD-EF end flange Molded-plastic enclosure, terminals for cables 2.5 to 10 mm ² , cable entry from 3 sides, suitable for cable gland made of plastic, with strain relief, M25 or M32 (not included in the scope of supply)										
Rated current $I_n = 30$ A, one-sided tap-off points										
Entry feeder units 	0.23	5-pole		CD-K-1304-EA	BVP:211164		1	1 unit	165	0.320
End feeder units 	0.23	5-pole		CD-K-1304-EE	BVP:211165		1	1 unit	165	0.450
Rated current $I_n = 40$ A, one-sided tap-off points										
Entry feeder units 	0.23	5-pole		CD-K-1404-EA	BVP:211166		1	1 unit	165	0.320
End feeder units 	0.23	5-pole		CD-K-1404-EE	BVP:211167		1	1 unit	165	0.450
Rated current $I_n = 2 \times 25$ A, double-sided tap-off points										
Entry feeder units 	0.23	2 x 5-pole		CD-K-2254-EA	BVP:211168		1	1 unit	165	0.420
End feeder units 	0.23	2 x 5-pole		CD-K-2254-EE	BVP:211169		1	1 unit	165	0.500
Rated current $I_n = 2 \times 40$ A, double-sided tap-off points										
Entry feeder units 	0.23	2 x 5-pole		CD-K-2404-EA	BVP:610004		1	1 unit	165	0.420
End feeder units 	0.23	2 x 5-pole		CD-K-2404-EE	BVP:610005		1	1 unit	165	0.500

Busbar Trunking Systems

CD-K System – 25 ... 40 A

Tap-off plugs

Selection and ordering data

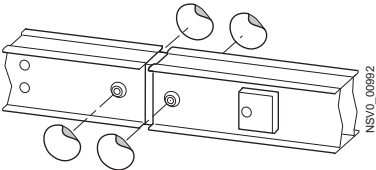
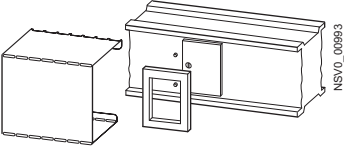
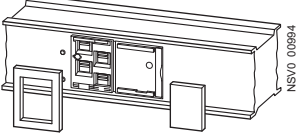
Version	Outgoing cable Length m	Cross-section mm ²	Rated current I_n A	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Tap-off plugs with cable											
Halogen-free cable according to IEC 60754-1 and flame-retardant according to IEC 60332-1											
3-pole, can be changed over to L1 or L2 or L3, with N and PE; without fuses 	0.8	3 × 1.5	10		CD-K-A3SO-1	BVP:610376		1	10 units	165	0.100
	3	3 × 1.5	10		CD-K-A3SO-3	BVP:610377		1	10 units	165	0.230
	4	3 × 1.5	10		CD-K-A3SO-4	BVP:610378		1	10 units	165	0.320
5-pole, L1 or L2, L3, N and PE; without fuses 	0.8	5 × 1.5	10		CD-K-A5SO-1	BVP:610381		1	10 units	165	0.120
	3	5 × 1.5	10		CD-K-A5SO-3	BVP:610382		1	10 units	165	0.400
3-pole, can be changed over to L1, L2 or L3, with N and PE; with holder for 1 cylindrical fuse 8.5 mm x 31.5 mm, type gG (IEC) or gL (VDE), (quick) 	0.8	3 × 1.5	16		CD-K-A3M-1	BVP:211198		1	5 units	165	0.220
	3	3 × 1.5	16		CD-K-A3M-3	BVP:211199		1	10 units	165	0.460
Tap-off plugs with terminals											
With plastic cable grommet M20, connection through terminal 2.5 mm ²											
3-pole, can be changed over to L1 or L2 or L3, with N and PE; without fuses 	--	--	16		CD-K-A3O-0	BVP:211196		1	10 units	165	0.100
5-pole, L1 or L2, L3, N and PE; without fuses 	--	--	16		CD-K-A5O-0	BVP:211200		1	10 units	165	0.120
3-pole, can be changed over to L1, L2 or L3, with N and PE; with holder for 1 cylindrical fuse 8.5 mm x 31.5 mm, type gG (IEC) or gL (VDE), (quick) 	--	--	16		CD-K-A3M-0	BVP:211197		1	10 units	165	0.155
5-pole, L1, L2, L3, N and PE; with holder for 3 cylindrical fuses 8.5 mm x 31.5 mm, type gG (IEC) or gL (VDE), (quick) 	--	--	16		CD-K-A5M-0	BVP:211201		1	10 units	165	0.170

Busbar Trunking Systems

CD-K System – 25 ... 40 A

Accessories

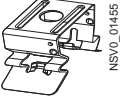
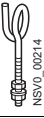
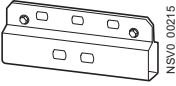
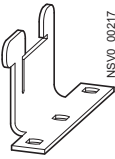
Selection and ordering data

Version	Rated current I_n	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	A								
Coding									
Coding sets for tap-off points									
 NSVO_00208			CD-K1	BVP:211202		1	10 units	165	0.002
 NSVO_00209			CD-K2	BVP:211203		1	10 units	165	0.002
 NSVO_00210			CD-K3	BVP:211204		1	10 units	165	0.002
Mounting parts									
End flanges									
 NSVO_00211			CD-EF	BVP:052124		1	1 unit	165	0.100
Connection fixtures (1 set = 14 units)									
 NSVO_00985			CD-CAP	BVP:611072		1	1 set	165	0.001
Accessories for degree of protection IP55									
IP55 mounting sets for connection point (1 set = 4 units)									
 NSVO_00992			CD-FS	BVP:611060		1	1 set	165	0.001
IP55 mounting sets for tap-off point									
 NSVO_00993			CD-FAS	BVP:610360		1	5 units	165	0.600
IP55 mounting sets for tap-off plug									
 NSVO_00994			CD-SAK	BVP:610361		1	5 units	165	0.200

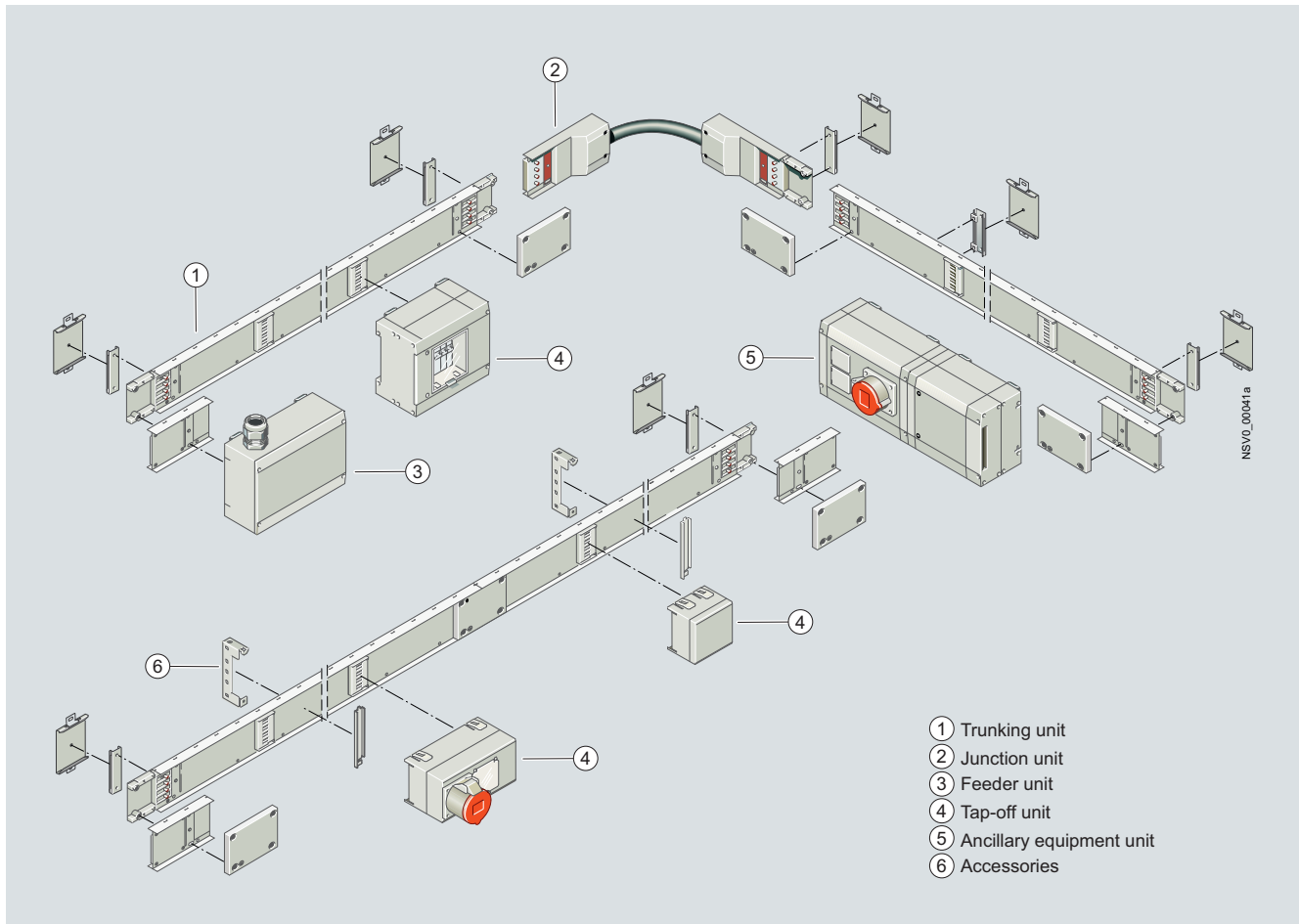
Busbar Trunking Systems

CD-K System – 25 ... 40 A

Accessories

Version	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Fixing								
Snap-on fixing brackets for mounting trunking units and luminaires 		CD-BAC	BVP:611391		1	36 units	165	0.020
Suspension hooks for suspension by cable or pendant or chain in conjunction with CD-BAC or CD-BC fixing bracket 		CD-H	BVP:086012		1	1 unit	165	0.030
Suspension bracket for suspension by cable or pendent or chain (also for increased mechanical rigidity at the connection points) 		CD-BA	BVP:025377		1	1 unit	165	0.314
Snap-on fixing brackets for mounting trunking units in combination with CD-H suspension hooks or threaded rods and for fixing lamps (balanced load) 		CD-BC	BVP:203519		1	12 units	165	0.016
Cable clips for securing cables alongside trunking units 		CD-CL	BVP:203520		1	10 units	165	0.003
Fixing brackets for underfloor mounting 		CD-BUF	BVP:272546		1	12 units	165	0.037

Overview



Version

Type-tested low-voltage switchgear and controlgear assembly (TTA) according to

- IEC/EN 60439-1
- IEC/EN 60439-2

Degree of protection

- High degree of protection IP54 with tap-off points at sides and bottom
- Degree of protection IP50 with tap-off points at the top
- Degree of protection increase to IP55 with accessories

Components

Trunking units

- 5-conductor system
- 2 or 3 tap-off points at a distance of 1 m
- 4 or 6 tap-off points at a distance of 0.5 m
- Lengths of 2 m and 3 m

Junction units

- Flexible junction units

Feeder units

- Universal infeed

Tap-off units

- Up to 63 A
- With built-in parts or for customized device installation
- For 3, 4 or 8 modular widths (MW)
- With or without device installation unit

Ancillary equipment units

- For 4 or 8 modular widths (MW)
- With or without device installation unit
- With or without socket assembly

Accessories

- Mounting sets for degree of protection IP55
- Fixing and suspending
- Coding sets
- Fire barrier kit S90

Busbar Trunking Systems

BD01 System – 40 ... 160 A

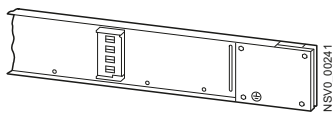
Introduction

Benefits

- Flexible power supply
- Easy and quick planning
- Time-saving mounting
- Reliable mechanical and electrical connection technology
- High stability, low weight
- Few basic modules required
- Storage-friendly system
- Variable change of the direction of the busbar line
- Versatile tap-off units
- Positive opening and closing of tap-off points
- Accessories for increasing the degree of protection to IP55 for extreme environmental conditions

Trunking units

Selection and ordering data



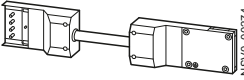
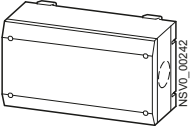
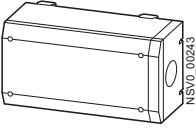
Rated current	Length	Tap-off points		DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A	m	Number	Distance m								kg
Trunking units											
Sheet-steel enclosure, color similar to RAL 7035 (light gray), codable tap-off points											
40	3	6	0.5		BD01-40-3-0,5	BVP:034253		1	1 unit	165	4.350
		3	1		BD01-40-3-1	BVP:233551		1	1 unit	165	4.350
	2	4	0.5		BD01-40-2-0,5	BVP:034254		1	1 unit	165	3.000
		2	1		BD01-40-2-1	BVP:233552		1	1 unit	165	3.000
63	3	6	0.5		BD01-63-3-0,5	BVP:034255		1	1 unit	165	4.600
		3	1		BD01-63-3-1	BVP:233553		1	1 unit	165	4.600
	2	4	0.5		BD01-63-2-0,5	BVP:034256		1	1 unit	165	3.200
		2	1		BD01-63-2-1	BVP:233555		1	1 unit	165	3.200
100	3	6	0.5		BD01-100-3-0,5	BVP:034257		1	1 unit	165	5.200
		3	1		BD01-100-3-1	BVP:233556		1	1 unit	165	5.200
	2	4	0.5		BD01-100-2-0,5	BVP:034258		1	1 unit	165	3.600
		2	1		BD01-100-2-1	BVP:233557		1	1 unit	165	3.600
125	3	6	0.5		BD01-125-3-0,5	BVP:090163		1	1 unit	165	5.200
		3	1		BD01-125-3-1	BVP:233559		1	1 unit	165	5.200
	2	4	0.5		BD01-125-2-0,5	BVP:090161		1	1 unit	165	3.600
		2	1		BD01-125-2-1	BVP:233560		1	1 unit	165	3.600
160	3	6	0.5		BD01-160-3-0,5	BVP:090164		1	1 unit	165	8.000
		3	1		BD01-160-3-1	BVP:233563		1	1 unit	165	8.000
	2	4	0.5		BD01-160-2-0,5	BVP:090162		1	1 unit	165	5.400
		2	1		BD01-160-2-1	BVP:233567		1	1 unit	165	5.400

Busbar Trunking Systems

BD01 System – 40 ... 160 A

Junction units
Feeder units

Selection and ordering data

	Rated current	Length	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	m								kg
Junction units										
	Flexible junction units									
	100	0.5		BD01-R1	BVP:034260		1	1 unit	165	1.200
		1		BD01-R2	BVP:034261		1	1 unit	165	2.050
	160	0.5		BD01-160-R1	BVP:090166		1	1 unit	165	1.750
		1		BD01-160-R2	BVP:090167		1	1 unit	165	3.050
	Rated current	Conductor cross-section	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	mm ²								kg
Feeder units										
	Molded-plastic enclosures, with 2 end flanges Can be fitted at all connection terminals and the busbar run ends, can be combined with BD01-GK... ancillary equipment units • 6 cable entries from 4 sides									
	100	50 ¹⁾		BD01-E	BVP:034259		1	1 unit	165	1.000
	160	95 ²⁾		BD01-160-E	BVP:090165		1	1 unit	165	1.400

Use plastic cable glands with strain relief (not included in scope of supply).

¹⁾ Use M32, M40 or M50 cable glands.

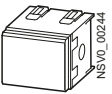
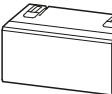
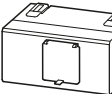
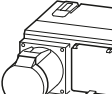
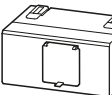
²⁾ Use M63 cable glands.

Busbar Trunking Systems

BD01 System – 40 ... 160 A

Tap-off units for international use

Selection and ordering data

	Rated current	Rated operational voltage	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	A	V								
Tap-off units, molded plastic, size 01										
 NSV0_00244	With fuse base for 1 cylindrical fuse 10 mm × 38 mm									
	16	400		BD01-AK01X/ZS	BVP:087483		1	1 unit	165	0.300
Tap-off units, molded plastic, size 02										
 NSV0_00245	With fuse base for 3 cylindrical fuses 10 mm × 38 mm									
	32	400		BD01-AK02X/ZS3	BVP:085090		1	1 unit	165	0.400
Tap-off units, molded plastic, size 02, with device installation unit										
 NSV0_00246	With 3-pole miniature circuit breaker 16 A, characteristic B									
	16	400		BD01-AK02M0/A163	BVP:085089		1	1 unit	165	0.800
 NSV0_00247	• With 1 CEE socket outlet 16 A, 5-pole									
	16	400		BD01-AK02M0/CEE165A163	BVP:085092		1	1 unit	165	0.980
 NSV0_00246	With 3-pole miniature circuit breaker 32 A, characteristic C									
	32	400		BD01-AK02M0/A323	BVP:085094		1	1 unit	165	0.800

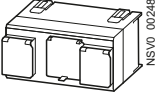
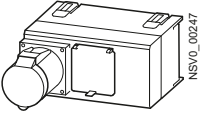
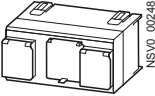
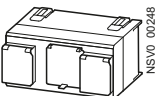
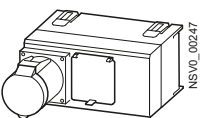
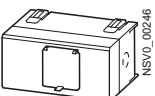
Fuse links are not included in scope of supply.

Use plastic cable glands with strain relief (not included in scope of supply).

Busbar Trunking Systems

BD01 System – 40 ... 160 A

Tap-off units for international use

	Rated current A	Rated operational voltage V	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Tap-off units, molded plastic, size 02, with device installation unit										
 NSV0_00248	With 1-pole miniature circuit breaker 16 A, characteristic B • With 2 SCHUKO socket outlets 16 A									
	16	230		BD01-AK02M0/ 2SD163A161	BVP:085096		1	1 unit	165	0.700
 NSV0_00247	• With 1 CEE socket outlet 16 A, 3-pole									
	16	230		BD01-AK02M0/ CEE163A161	BVP:090170		1	1 unit	165	0.700
 NSV0_00248	• With 2-pole residual current operated circuit breaker 16 A/30 mA and with 2 SCHUKO socket outlets 16 A									
	16	230		BD01-AK02M0/ 2SD163FIA161	BVP:090168		1	1 unit	165	0.950
 NSV0_00248	With 1-pole fuse base D01 • With 2 SCHUKO socket outlets 16 A									
	16	230		BD01-AK02M0/ 2SD163S14	BVP:085095		1	1 unit	165	0.800
 NSV0_00247	• With 1 CEE socket outlet 16 A, 3-pole									
	16	230		BD01-AK02M0/ CEE163S14	BVP:090169		1	1 unit	165	0.800
 NSV0_00246	Freely assignable (P_v max. 13 W), 3 MW (MW = modular width), with integrated standard mounting rail									
	32	400		BD01-AK02M0/F	BVP:085093		1	1 unit	165	0.500

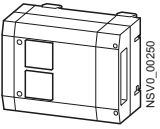
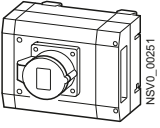
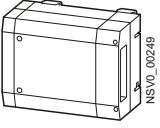
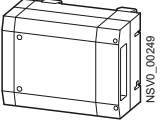
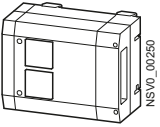
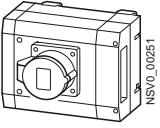
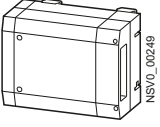
Adapter ring/screw adapter, fuse links and screw cap are not included in scope of supply.

Use plastic cable glands with strain relief (not included in scope of supply).

Busbar Trunking Systems

BD01 System – 40 ... 160 A

Tap-off units for international use

	Rated current A	Rated operational voltage V	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Tap-off units, aluminum, size 1										
	With 1-pole fuse base D01 • With 2 SCHUKO socket outlets 16 A									
	16	230		BD01-AK1X/ 2SD163S14	BVP:034268		1	1 unit	165	1.400
	• With 1 CEE socket outlet 16 A, 3-pole									
	16	230		BD01-AK1X/ CEE163S14	BVP:034270		1	1 unit	165	1.380
	16	400		BD01-AK1X/S14	BVP:034264		1	1 unit	165	1.400
	35	400		BD01-AK1X/S18	BVP:034265		1	1 unit	165	1.400
	With 1-pole miniature circuit breaker 16 A, characteristic B • With 2 SCHUKO socket outlets 16 A									
	16	230		BD01-AK1X/ 2SD163A161	BVP:034269		1	1 unit	165	1.470
	• With 1 CEE socket outlet 16 A, 3-pole									
	16	230		BD01-AK1X/ CEE163A161	BVP:034271		1	1 unit	165	1.435
	35	400		BD01-AK1X/F	BVP:034272		1	1 unit	165	1.000

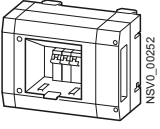
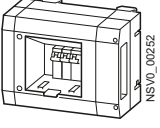
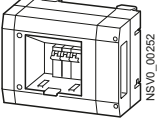
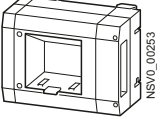
Adapter ring/screw adapter, fuse links and screw cap are not included in scope of supply.

Use plastic cable glands with strain relief (not included in scope of supply).

Busbar Trunking Systems

BD01 System – 40 ... 160 A

Tap-off units for international use

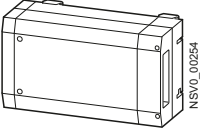
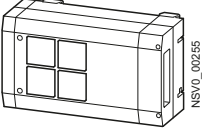
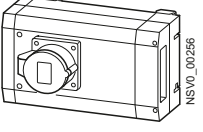
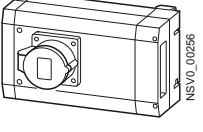
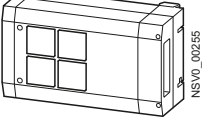
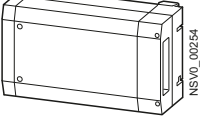
	Rated current	Rated operational voltage	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	A	V								
Tap-off units, aluminum, size 1, with device installation unit										
	With 3 x 1-pole miniature circuit breaker 10 A, characteristic B									
	10	400		BD01-AK1M1/A101	BVP:203098		1	1 unit	165	1.600
	With 3 x 1-pole miniature circuit breaker 16 A, characteristic B									
	16	400		BD01-AK1M1/A161	BVP:034266		1	1 unit	165	1.600
	With 3-pole miniature circuit breaker 32 A, characteristic C									
	32	400		BD01-AK1M1/A323	BVP:034267		1	1 unit	165	1.600
	Freely assignable (P_V max. 13W), 4 MW (MW = modular width), with integrated standard mounting rail									
	35	400		BD01-AK1M1/F	BVP:034273		1	1 unit	165	1.000

Use plastic cable glands with strain relief (not included in scope of supply).

Busbar Trunking Systems

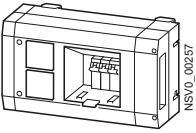
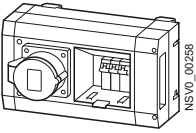
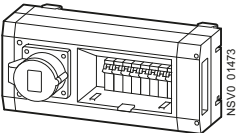
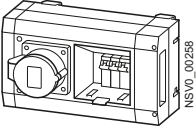
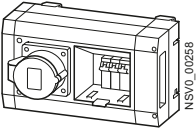
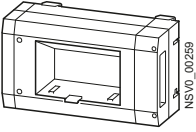
BD01 System – 40 ... 160 A

Tap-off units for international use

	Rated current	Rated operational voltage	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	A	V								
Tap-off units, aluminum, size 2										
	With 3-pole fuse base S27/S33									
	• With 3-pole fuse base S27, gauge screw system									
	25	400		BD01-AK2X/S27	BVP:034274		1	1 unit	165	1.700
	63	400		BD01-AK2HX/S33	BVP:233568		1	1 unit	165	1.700
	With 2 × 1-pole fuse base D01 and with 4 SCHUKO socket outlets 16 A									
	16	230		BD01-AK2X/4SD163S14	BVP:034277		1	1 unit	165	2.000
	With 3 × 1-pole fuse base D01 and with 1 CEE socket outlet 16 A, 5-pole									
	16	400		BD01-AK2X/CEE165S14	BVP:034279		1	1 unit	165	1.850
	With 3 × 1-pole fuse base D02 and with 1 CEE socket outlet 32 A, 5-pole									
	32	400		BD01-AK2X/CEE325S18	BVP:034281		1	1 unit	165	2.000
	With 2 × 1-pole miniature circuit breaker 16 A, characteristic B, and with 4 SCHUKO socket outlets 16 A									
	16	230		BD01-AK2X/4SD163A161	BVP:034278		1	1 unit	165	2.100
	Freely assignable, 8 MW (MW = modular width), with integrated standard mounting rail									
	• Freely assignable (P_V max. 16 W)									
	35	400		BD01-AK2X/F	BVP:034283		1	1 unit	165	1.300
	• Freely assignable (P_V max. 22.5 W)									
	63	400		BD01-AK2HX/F	BVP:233570		1	1 unit	165	1.300

Adapter ring/screw adapter, fuse links and screw cap are not included in scope of supply.

Use plastic cable glands with strain relief (not included in scope of supply).

	Rated current	Rated operational voltage	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	A	V								kg
Tap-off units, aluminum, size 2, with device installation unit										
	With 1-pole miniature circuit breaker 16 A, characteristic B, with 2-pole residual current operated circuit breaker 16 A/30 mA and with 2 SCHUKO socket outlets 16 A									
	16	230		BD01-AK2M1/2SD163FIA161	BVP:034276		1	1 unit	165	2.000
	With 1-pole miniature circuit breaker 16 A, characteristic C, with 2-pole residual current operated circuit breaker 25 A/30 mA and with 1 CEE socket outlet 16 A, 3-pole									
	16	400		BD01-AK2M1/CEE163FIA161	BVP:660867		1	1 unit	165	2.000
	With 3-pole miniature circuit breaker 16 A, characteristic C, with 4-pole residual current operated circuit breaker 25 A/30 mA and with 1 CEE socket outlet 16 A, 5-pole									
	16	400		BD01-AK2M2/CEE165FIA163	BVP:660866		1	1 unit	165	3.500
	With 3-pole miniature circuit breaker 16 A, characteristic C, and with 1 CEE socket outlet 16 A, 5-pole									
	16	400		BD01-AK2M1/CEE165A163	BVP:034280		1	1 unit	165	2.000
	With 3-pole miniature circuit breaker 32 A, characteristic C, and with 1 CEE socket outlet 32 A, 5-pole									
	32	400		BD01-AK2M1/CEE325A323	BVP:034282		1	1 unit	165	2.100
	Freely assignable, 8 MW (MW = modular width), with integrated standard mounting rail									
	• Freely assignable (P_V max. 16 W)									
	35	400		BD01-AK2M2/F	BVP:034284		1	1 unit	165	1.360
	• Freely assignable (P_V max. 22.5 W)									
	63	400		BD01-AK2HM2/F	BVP:233571		1	1 unit	165	1.360

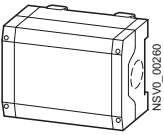
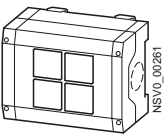
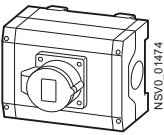
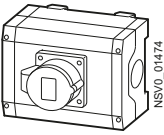
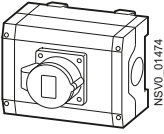
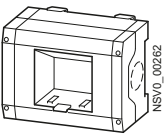
Use plastic cable glands with strain relief (not included in scope of supply).

Busbar Trunking Systems

BD01 System – 40 ... 160 A

Ancillary equipment units for international use

Selection and ordering data

Version	Rated operational voltage V	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Ancillary equipment units, aluminum, size 1									
	Freely assignable (P_v max. 13W), 4 MW (MW = modular width), with integrated standard mounting rail Can be used for • Overvoltage protection • Remote control/remote switching • Intelligence • Electronic control equipment	400	BD01-GK1X/F	BVP:034285		1	1 unit	165	0.800
	with 4 SCHUKO socket outlets 16 A	400	BD01-GK1X/4SD163	BVP:034287		1	1 unit	165	1.200
	With 1 CEE socket outlet 16 A, 3-pole	400	BD01-GK1X/CEE163	BVP:660808		1	1 unit	165	0.950
	With 1 CEE socket outlet 16 A, 5-pole	400	BD01-GK1X/CEE165	BVP:660809		1	1 unit	165	1.000
	With 1 CEE socket outlet 32 A, 5-pole	400	BD01-GK1X/CEE325	BVP:660810		1	1 unit	165	1.040
Ancillary equipment units, size 1, with device installation unit									
	Freely assignable (P_v max. 13W), 4 MW (MW = modular width), with integrated standard mounting rail Can be used for • Remote control/remote switching • Intelligence • Electronic control equipment • Component mounting unit for mounting components, e.g. miniature circuit breakers	400	BD01-GK1M1/F	BVP:034286		1	1 unit	165	0.800

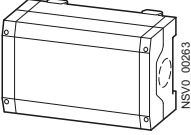
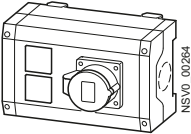
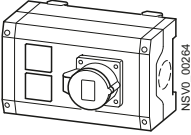
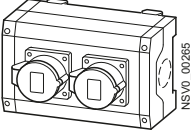
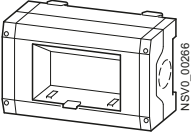
Ancillary equipment units are supplied with the cable gland for enclosure connection.

Use plastic cable glands with strain relief (not included in scope of supply).

Busbar Trunking Systems

BD01 System – 40 ... 160 A

Ancillary equipment units for international use

Version	Rated operational voltage V	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Ancillary equipment units, aluminum, size 2									
 Freely assignable (P_V max. 16 W), 8 MW (MW = modular width), with integrated standard mounting rail Can be used for • Overvoltage protection • Remote control/remote switching • Intelligence • Electronic control equipment	400		BD01-GK2X/F	BVP:034288		1	1 unit	165	1.100
 With 2 SCHUKO socket outlets 16 A and 1 CEE socket outlet, 16 A, 5-pole	400		BD01-GK2X/2SD163CEE165	BVP:034291		1	1 unit	165	1.600
 With 2 SCHUKO socket outlets 16 A and 1 CEE socket outlet, 32 A, 5-pole	400		BD01-GK2X/2SD163CEE325	BVP:660811		1	1 unit	165	1.800
 With 1 CEE socket outlet 16 A, 3-pole, and 1 CEE socket outlet 16 A, 5-pole	400		BD01-GK2X/CEE163CEE165	BVP:034290		1	1 unit	165	1.500
Ancillary equipment units, size 2, with device installation unit									
 Freely assignable (P_V max. 16 W), 8 MW (MW = modular width), with integrated standard mounting rail Can be used for • Remote control/remote switching • Intelligence • Electronic control equipment • Component mounting unit for mounting components, e.g. miniature circuit breakers	400		BD01-GK2M2/F	BVP:034289		1	1 unit	165	1.100

Ancillary equipment units are supplied with the cable gland for enclosure connection.

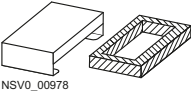
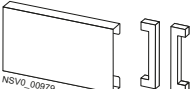
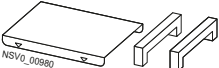
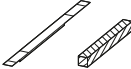
Use plastic cable glands with strain relief (not included in scope of supply).

Busbar Trunking Systems

BD01 System – 40 ... 160 A

Accessories

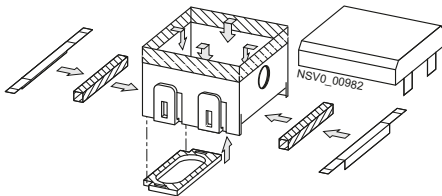
Selection and ordering data

Version	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Accessories for degree of protection IP55								
 NSV0_00978	For tap-off points		BD01-FAS	BVP:610363	1	5 units	165	0.100
	For connection points		BD01-FS	BVP:610362	1	5 units	165	0.150
 NSV0_00879	For feeder units							
 NSV0_00980  NSV0_00981	• Mounting position at the bottom		BD01-FES	BVP:610364	1	1 unit	165	0.150
	• Mounting position at the side or top		BD01-KS	BVP:611057	1	1 unit	165	0.030

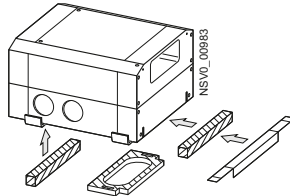
Busbar Trunking Systems

BD01 System – 40 ... 160 A

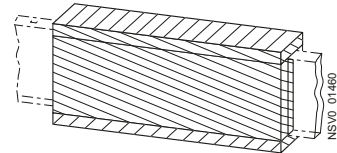
Accessories



Accessories for degree of protection IP55, for tap-off units size 01X, 02X



Accessories for degree of protection IP55, for tap-off units size 1X, 2X



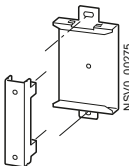
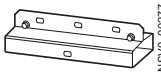
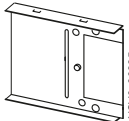
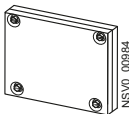
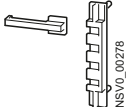
Fire barrier kit

Version	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Accessories for degree of protection IP55								
For tap-off units								
• Size 01X, 02X	Size 01	BD01-AK01X-IP55	BVP:610365		1	1 unit	165	0.050
	Size 02	BD01-AK02X-IP55	BVP:610366		1	1 unit	165	0.050
• Size 1X, 2X	Size 1	BD01-AK1X-IP55	BVP:610367		1	1 unit	165	0.050
	Size 2	BD01-AK2X-IP55	BVP:610368		1	1 unit	165	0.050
Fire barrier								
Fire barrier kits for mounting by the customer with fire protection plates and fixing screws		BD01-S90	BVP:611354		1	1 unit	165	1.500
Fire barrier approval kits (required only for Germany)		BD01-S90-ZUL-D	BVP:611373		1	1 unit	165	0.200

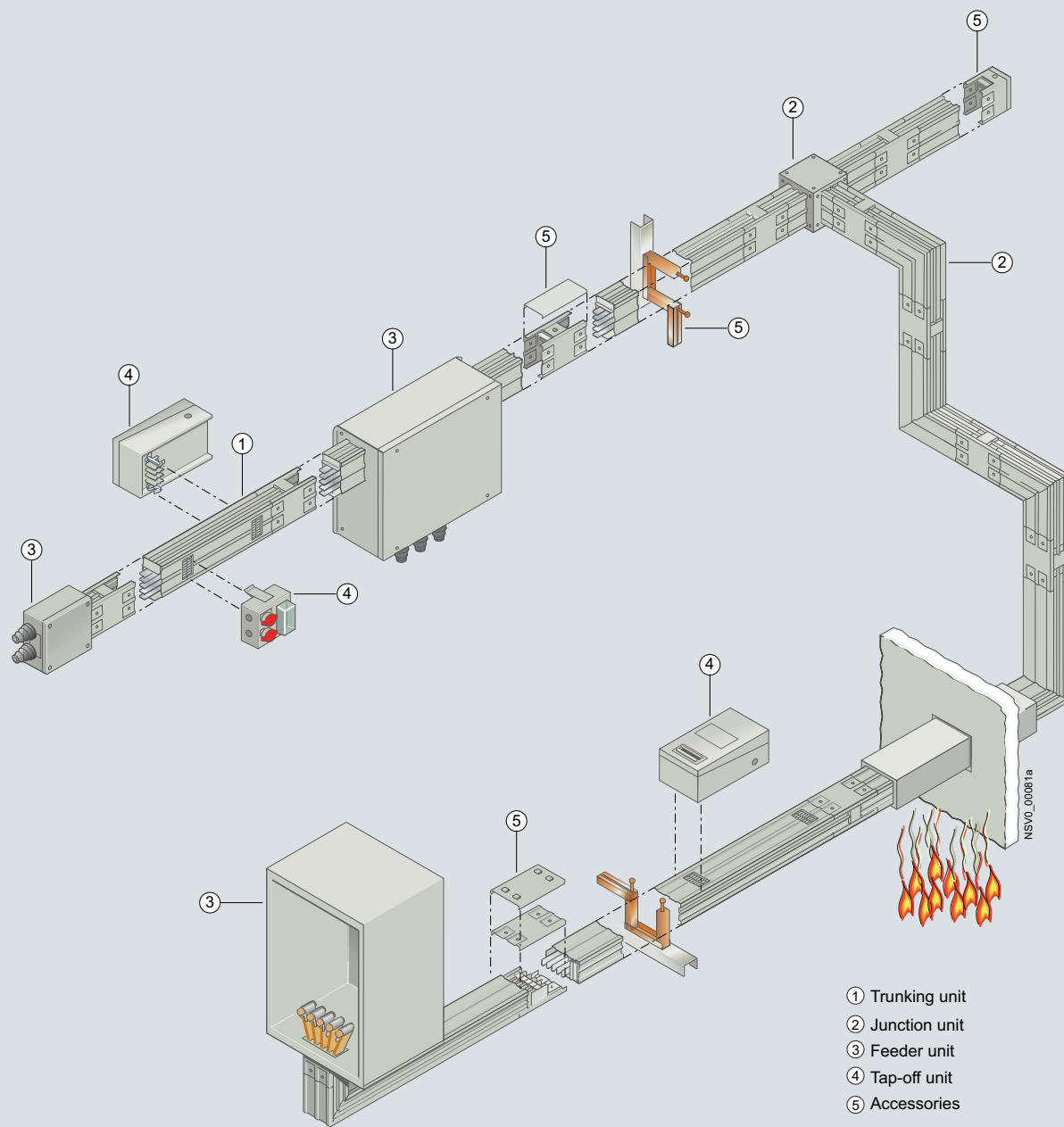
Busbar Trunking Systems

BD01 System – 40 ... 160 A

Accessories

Version	Rated current I_e A	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Fixing									
 NSV0_00275	Universal fixing brackets		BD01-B	BVP:034262		1	1 unit	165	0.167
	Suspension brackets		BD01-BA	BVP:081945		1	1 unit	165	0.167
	 NSV0_00277	Hanger brackets • For suspension by cable or pendant chain • At the connection point		BD01-BAP	BVP:203522		1	1 unit	165
Mounting parts									
 NSV0_00865	End flanges		BD01-EF	BVP:611071		1	1 unit	165	0.300
	 NSV0_00884	Joint blocks	100	BD01-100-KB	BVP:201966		1	1 unit	165
160		BD01-160-KB	BVP:201967		1	1 unit	165	0.350	
Coding									
 NSV0_00278	Coding sets • 4 coding positions		BD01-K	BVP:034263		1	10 units	165	0.010

Overview



Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Introduction

Version

Type-tested low-voltage switchgear and controlgear assembly (TTA) according to

- IEC/EN 60439-1
- IEC/EN 60439-2

Degree of protection

- Trunking units IP52 (standard), feeder units and tap-off units IP54
- Increased degree of protection to IP54 or IP55 with optional equipment for operation in harsh industrial environments

Components

Straight trunking units

- With or without fire protection
- 5-conductor system
- Busbars made of copper or aluminum
- Standard lengths of 3.25 m, 2.25 m and 1.25 m
- Optional lengths from 0.5 m to 3.24 m
- Tap-off points
 - None
 - On two sides offset every 0.25 m or 0.5 m
- Fire protection: fire resistance class S90 and S120 according to DIN 4102, Sheet 2 to 4

Junction units

- Edgewise or flat
- With or without fire protection
- L-enclosure with or without configurable angle
- Z-enclosure
- T-enclosure
- K-enclosure
- Flexible junction units

Feeder units

- Entry/end feeder unit
- Feeder unit with switch disconnecter
- Center feeder units
- Bolt terminal
- Cable entry from 1, 2 or 3 sides
- Distribution board feeder units

Tap-off units

- Up to 25 A
 - Molded-plastic enclosure
 - Double anti-rotation feature
- Up to 63 A
 - Sheet-steel enclosure, hot-galvanized, cover powder-coated
 - Double anti-rotation feature
- Up to 125 A
 - Sheet-steel enclosure, hot-galvanized, cover powder-coated
 - Compulsory order of operation
 - Double anti-rotation feature
- Up to 530 A
 - Sheet-steel enclosure, hot-galvanized, cover powder-coated
 - Tap-off unit partitioned according to function
 - Enclosure for protective devices
 - Enclosure for power pick-up
 - Double anti-rotation feature

Ancillary equipment units

- For 8 modular widths (MW)
- With or without device installation unit, cover powder-coated

Accessories

- End flanges
- For degree of protection IP54 or IP55
 - Flange for edgewise mounting position
 - Flange for flat mounting position
 - Flange for vertical mounting position
 - Additional components for tap-off units
- For fixing
 - Universal fixing bracket for edgewise or flat mounting position
 - Retaining elements for vertical bars, for wall or ceiling mounting
- Joint blocks

Benefits

- Easy and quick planning
- Time-saving and economical mounting
- Reliable and safe operation
- Flexible modular system with simple solutions for every application
- Early planning of the power distribution system without exact knowledge of load locations
- Early readiness for operation thanks to fast and simple mounting
- Innovative design: no more compensation boxes to compensate elongation.
- Codable tap-off units and tap-off points
- Sealable throughout
- Optional equipment for increasing the degree of protection to IP55 for extreme environmental conditions

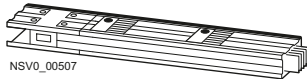
Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Trunking units

Selection and ordering data

With aluminum busbars



Standard lengths, with tap-off points on two sides, with joint block



Standard lengths, without tap-off points, with joint block

Rated current I_n	Length	Tap-off points		DT	Tap-off point distance 0.5 m L1, L2, L3, N, 1/2 PE			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
		Number	Distance		Type	Order No.	Price per PU				
A	m		m								
Standard lengths, with tap-off points on two sides											
160	3.25	12	0.5		BD2A-2-160-SB-3	BVP:261410		1	1 unit	165	20.000
	2.25	8	0.5		BD2A-2-160-SB-2	BVP:260958		1	1 unit	165	14.000
	1.25	4	0.5		BD2A-2-160-SB-1	BVP:260957		1	1 unit	165	8.400
250	3.25	12	0.5		BD2A-2-250-SB-3	BVP:261413		1	1 unit	165	22.200
	2.25	8	0.5		BD2A-2-250-SB-2	BVP:261412		1	1 unit	165	16.500
	1.25	4	0.5		BD2A-2-250-SB-1	BVP:261411		1	1 unit	165	8.600
400	3.25	12	0.5		BD2A-2-400-SB-3	BVP:261419		1	1 unit	165	26.800
	2.25	8	0.5		BD2A-2-400-SB-2	BVP:261418		1	1 unit	165	19.600
	1.25	4	0.5		BD2A-2-400-SB-1	BVP:261417		1	1 unit	165	12.300
630	3.25	12	0.5		BD2A-2-630-SB-3	BVP:261431		1	1 unit	165	38.400
	2.25	8	0.5		BD2A-2-630-SB-2	BVP:261430		1	1 unit	165	26.500
	1.25	4	0.5		BD2A-2-630-SB-1	BVP:261429		1	1 unit	165	18.500
800	3.25	12	0.5		BD2A-2-800-SB-3	BVP:261437		1	1 unit	165	38.400
	2.25	8	0.5		BD2A-2-800-SB-2	BVP:261436		1	1 unit	165	26.500
	1.25	4	0.5		BD2A-2-800-SB-1	BVP:261435		1	1 unit	165	18.500
1000	3.25	12	0.5		BD2A-2-1000-SB-3	BVP:261443		1	1 unit	165	48.800
	2.25	8	0.5		BD2A-2-1000-SB-2	BVP:261442		1	1 unit	165	33.500
	1.25	4	0.5		BD2A-2-1000-SB-1	BVP:261441		1	1 unit	165	22.400
Standard lengths, without tap-off points											
400	3.25	--	--		BD2A-2-400-SO-3	BVP:261422		1	1 unit	165	26.100
	2.25	--	--		BD2A-2-400-SO-2	BVP:261421		1	1 unit	165	19.600
	1.25	--	--		BD2A-2-400-SO-1	BVP:261420		1	1 unit	165	12.300
630	3.25	--	--		BD2A-2-630-SO-3	BVP:261434		1	1 unit	165	39.400
	2.25	--	--		BD2A-2-630-SO-2	BVP:261433		1	1 unit	165	27.500
	1.25	--	--		BD2A-2-630-SO-1	BVP:261432		1	1 unit	165	19.000
800	3.25	--	--		BD2A-2-800-SO-3	BVP:261440		1	1 unit	165	39.400
	2.25	--	--		BD2A-2-800-SO-2	BVP:261439		1	1 unit	165	27.500
	1.25	--	--		BD2A-2-800-SO-1	BVP:261438		1	1 unit	165	19.000
1000	3.25	--	--		BD2A-2-1000-SO-3	BVP:261446		1	1 unit	165	49.800
	2.25	--	--		BD2A-2-1000-SO-2	BVP:261445		1	1 unit	165	34.500
	1.25	--	--		BD2A-2-1000-SO-1	BVP:261444		1	1 unit	165	22.900

Special colors available on request.

Version	DT	Type suffix	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Fire barrier (optional)								
Fire barrier S90		+BD2-S90-BX*-M*	BVP:931956		1	1 unit	165	1.000
Fire barrier S120		+BD2-S120-BX*-M*	BVP:931959		1	1 unit	165	1.500

For BX* specify the required dimension in meters from the center of the joint block (end without joint block) to the center of the fire wall or fire ceiling, for -M* specify the wall or ceiling thickness.

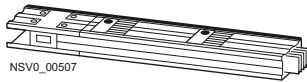
For the configuration of the fire barrier, see [Catalog LV 70](#).

For approval in Germany:
BD2-S90(S120)-ZUL-D fire barrier approval kit
see [page 15/72](#).

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Trunking units



Standard lengths, with tap-off points on two sides, with joint block



Standard lengths, without tap-off points, with joint block

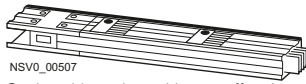
Rated current I_n	Length	Tap-off points		DT	Tap-off point distance 0.5 m L1, L2, L3, N, PE			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
		Number	Distance		Type	Order No.	Price per PU				
A	m		m								kg
Standard lengths, with tap-off points on two sides											
160	3.25	12	0.5		BD2A-3-160-SB-3	BVP:261480		1	1 unit	165	20.000
	2.25	8	0.5		BD2A-3-160-SB-2	BVP:261479		1	1 unit	165	14.000
	1.25	4	0.5		BD2A-3-160-SB-1	BVP:261478		1	1 unit	165	8.400
250	3.25	12	0.5		BD2A-3-250-SB-3	BVP:261483		1	1 unit	165	22.200
	2.25	8	0.5		BD2A-3-250-SB-2	BVP:261482		1	1 unit	165	16.500
	1.25	4	0.5		BD2A-3-250-SB-1	BVP:261481		1	1 unit	165	8.600
400	3.25	12	0.5		BD2A-3-400-SB-3	BVP:261489		1	1 unit	165	26.000
	2.25	8	0.5		BD2A-3-400-SB-2	BVP:261488		1	1 unit	165	19.000
	1.25	4	0.5		BD2A-3-400-SB-1	BVP:261487		1	1 unit	165	12.000
630	3.25	12	0.5		BD2A-3-630-SB-3	BVP:261501		1	1 unit	165	39.900
	2.25	8	0.5		BD2A-3-630-SB-2	BVP:261500		1	1 unit	165	27.500
	1.25	4	0.5		BD2A-3-630-SB-1	BVP:261499		1	1 unit	165	19.100
800	3.25	12	0.5		BD2A-3-800-SB-3	BVP:261507		1	1 unit	165	39.900
	2.25	8	0.5		BD2A-3-800-SB-2	BVP:261506		1	1 unit	165	27.500
	1.25	4	0.5		BD2A-3-800-SB-1	BVP:261505		1	1 unit	165	19.100
1000	3.25	12	0.5		BD2A-3-1000-SB-3	BVP:261513		1	1 unit	165	51.000
	2.25	8	0.5		BD2A-3-1000-SB-2	BVP:261512		1	1 unit	165	35.000
	1.25	4	0.5		BD2A-3-1000-SB-1	BVP:261511		1	1 unit	165	23.200
Standard lengths, without tap-off points											
400	3.25	--	--		BD2A-3-400-SO-3	BVP:261492		1	1 unit	165	25.300
	2.25	--	--		BD2A-3-400-SO-2	BVP:261491		1	1 unit	165	19.000
	1.25	--	--		BD2A-3-400-SO-1	BVP:261490		1	1 unit	165	12.000
630	3.25	--	--		BD2A-3-630-SO-3	BVP:261504		1	1 unit	165	40.900
	2.25	--	--		BD2A-3-630-SO-2	BVP:261503		1	1 unit	165	28.500
	1.25	--	--		BD2A-3-630-SO-1	BVP:261502		1	1 unit	165	19.600
800	3.25	--	--		BD2A-3-800-SO-3	BVP:261510		1	1 unit	165	40.900
	2.25	--	--		BD2A-3-800-SO-2	BVP:261509		1	1 unit	165	28.500
	1.25	--	--		BD2A-3-800-SO-1	BVP:261508		1	1 unit	165	19.600
1000	3.25	--	--		BD2A-3-1000-SO-3	BVP:261516		1	1 unit	165	52.000
	2.25	--	--		BD2A-3-1000-SO-2	BVP:261515		1	1 unit	165	36.000
	1.25	--	--		BD2A-3-1000-SO-1	BVP:261514		1	1 unit	165	23.700

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

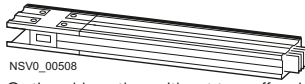
Trunking units

With aluminum busbars



NSV0_00507

Optional lengths, with tap-off points on two sides, with joint block



NSV0_00508

Optional lengths, without tap-off points, with joint block

Rated current I_n	Length	Tap-off points Number	Distance	DT	Tap-off point distance 0.5 m L1, L2, L3, N, 1/2 PE			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A	m		m		Type	Order No.	Price per PU				kg
Optional lengths, with tap-off points on two sides											
160	2.26 ... 3.24	8 ... 12	0.5		BD2A-2-160-WB-3W*	BVP:261447		1	1 unit	165	20.000
	1.26 ... 2.24	4 ... 8	0.5		BD2A-2-160-WB-2W*	BVP:261448		1	1 unit	165	15.000
250	2.26 ... 3.24	8 ... 12	0.5		BD2A-2-250-WB-3W*	BVP:261449		1	1 unit	165	21.900
	1.26 ... 2.24	4 ... 8	0.5		BD2A-2-250-WB-2W*	BVP:261450		1	1 unit	165	16.300
400	2.26 ... 3.24	8 ... 12	0.5		BD2A-2-400-WB-3W*	BVP:261453		1	1 unit	165	26.100
	1.26 ... 2.24	4 ... 8	0.5		BD2A-2-400-WB-2W*	BVP:261454		1	1 unit	165	19.100
630	2.26 ... 3.24	8 ... 12	0.5		BD2A-2-630-WB-3W*	BVP:261457		1	1 unit	165	44.400
	1.26 ... 2.24	4 ... 8	0.5		BD2A-2-630-WB-2W*	BVP:261458		1	1 unit	165	30.500
800	2.26 ... 3.24	8 ... 12	0.5		BD2A-2-800-WB-3W*	BVP:261459		1	1 unit	165	44.400
	1.26 ... 2.24	4 ... 8	0.5		BD2A-2-800-WB-2W*	BVP:261460		1	1 unit	165	30.500
1000	2.26 ... 3.24	8 ... 12	0.5		BD2A-2-1000-WB-3W*	BVP:261461		1	1 unit	165	54.800
	1.26 ... 2.24	4 ... 8	0.5		BD2A-2-1000-WB-2W*	BVP:261462		1	1 unit	165	37.500
Optional lengths, without tap-off points											
400	2.26 ... 3.24	--	--		BD2A-2-400-WO-3W*	BVP:261463		1	1 unit	165	26.100
	1.26 ... 2.24	--	--		BD2A-2-400-WO-2W*	BVP:261464		1	1 unit	165	19.100
	0.50 ... 1.24	--	--		BD2A-2-400-WO-1W*	BVP:261465		1	1 unit	165	11.900
630	2.26 ... 3.24	--	--		BD2A-2-630-WO-3W*	BVP:261469		1	1 unit	165	44.400
	1.26 ... 2.24	--	--		BD2A-2-630-WO-2W*	BVP:261470		1	1 unit	165	30.500
	0.50 ... 1.24	--	--		BD2A-2-630-WO-1W*	BVP:261471		1	1 unit	165	19.300
800	2.26 ... 3.24	--	--		BD2A-2-800-WO-3W*	BVP:261472		1	1 unit	165	44.400
	1.26 ... 2.24	--	--		BD2A-2-800-WO-2W*	BVP:261473		1	1 unit	165	30.500
	0.50 ... 1.24	--	--		BD2A-2-800-WO-1W*	BVP:261474		1	1 unit	165	19.300
1000	2.26 ... 3.24	--	--		BD2A-2-1000-WO-3W*	BVP:261475		1	1 unit	165	54.800
	1.26 ... 2.24	--	--		BD2A-2-1000-WO-2W*	BVP:261476		1	1 unit	165	37.500
	0.50 ... 1.24	--	--		BD2A-2-1000-WO-1W*	BVP:261477		1	1 unit	165	23.200

For W*, you must specify the required dimension in meters between the center of one joint block to the center of the next, e.g. -3W2.50.

For optional lengths [see Catalog LV 70](#).

Special colors available on request.

Version	DT	Type suffix	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
Fire barrier (optional)								
Fire barrier S90		+BD2-S90-BX*-M*	BVP:931956		1	1 unit	165	1.000
Fire barrier S120		+BD2-S120-BX*-M*	BVP:931959		1	1 unit	165	1.500

For BX* specify the required dimension in meters from the center of the joint block (end without joint block) to the center of the fire wall or fire ceiling, for -M* specify the wall or ceiling thickness.

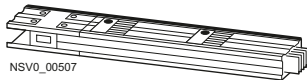
For the configuration of the fire barrier, [see Catalog LV 70](#).

For approval in Germany:
BD2-S90(S120)-ZUL-D fire barrier approval kit
[see page 15/72](#).

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Trunking units



Optional lengths, with tap-off points on two sides, with joint block



Optional lengths, without tap-off points, with joint block

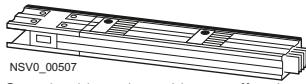
Rated current I_n	Length	Tap-off points		DT	Tap-off point distance 0.5 m L1, L2, L3, N, PE			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
		Number	Distance		Type	Order No.	Price per PU				
A	m		m								kg
Optional lengths, with tap-off points on two sides											
160	2.26 ... 3.24	8 ... 12	0.5		BD2A-3-160-WB-3W*	BVP:261517		1	1 unit	165	20.000
	1.26 ... 2.24	4 ... 8	0.5		BD2A-3-160-WB-2W*	BVP:261518		1	1 unit	165	15.000
250	2.26 ... 3.24	8 ... 12	0.5		BD2A-3-250-WB-3W*	BVP:261519		1	1 unit	165	21.900
	1.26 ... 2.24	4 ... 8	0.5		BD2A-3-250-WB-2W*	BVP:261520		1	1 unit	165	16.300
400	2.26 ... 3.24	8 ... 12	0.5		BD2A-3-400-WB-3W*	BVP:261523		1	1 unit	165	25.300
	1.26 ... 2.24	4 ... 8	0.5		BD2A-3-400-WB-2W*	BVP:261524		1	1 unit	165	18.500
630	2.26 ... 3.24	8 ... 12	0.5		BD2A-3-630-WB-3W*	BVP:261527		1	1 unit	165	45.900
	1.26 ... 2.24	4 ... 8	0.5		BD2A-3-630-WB-2W*	BVP:261528		1	1 unit	165	31.500
800	2.26 ... 3.24	8 ... 12	0.5		BD2A-3-800-WB-3W*	BVP:261529		1	1 unit	165	45.900
	1.26 ... 2.24	4 ... 8	0.5		BD2A-3-800-WB-2W*	BVP:261530		1	1 unit	165	31.500
1000	2.26 ... 3.24	8 ... 12	0.5		BD2A-3-1000-WB-3W*	BVP:261531		1	1 unit	165	57.000
	1.26 ... 2.24	4 ... 8	0.5		BD2A-3-1000-WB-2W*	BVP:261532		1	1 unit	165	39.000
Optional lengths, without tap-off points											
400	2.26 ... 3.24	--	--		BD2A-3-400-WO-3W*	BVP:261533		1	1 unit	165	25.300
	1.26 ... 2.24	--	--		BD2A-3-400-WO-2W*	BVP:261534		1	1 unit	165	18.500
	0.50 ... 1.24	--	--		BD2A-3-400-WO-1W*	BVP:261535		1	1 unit	165	11.600
630	2.26 ... 3.24	--	--		BD2A-3-630-WO-3W*	BVP:261539		1	1 unit	165	45.900
	1.26 ... 2.24	--	--		BD2A-3-630-WO-2W*	BVP:261540		1	1 unit	165	31.500
	0.50 ... 1.24	--	--		BD2A-3-630-WO-1W*	BVP:261541		1	1 unit	165	19.900
800	2.26 ... 3.24	--	--		BD2A-3-800-WO-3W*	BVP:261542		1	1 unit	165	45.900
	1.26 ... 2.24	--	--		BD2A-3-800-WO-2W*	BVP:261543		1	1 unit	165	31.500
	0.50 ... 1.24	--	--		BD2A-3-800-WO-1W*	BVP:261544		1	1 unit	165	19.900
1000	2.26 ... 3.24	--	--		BD2A-3-1000-WO-3W*	BVP:261545		1	1 unit	165	57.000
	1.26 ... 2.24	--	--		BD2A-3-1000-WO-2W*	BVP:261546		1	1 unit	165	39.000
	0.50 ... 1.24	--	--		BD2A-3-1000-WO-1W*	BVP:261547		1	1 unit	165	24.000

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

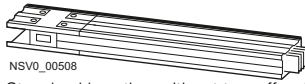
Trunking units

With copper busbars



NSV0_00507

Standard lengths, with tap-off points on two sides, with joint block



NSV0_00508

Standard lengths, without tap-off points, with joint block

Rated current <i>I_n</i>	Length	Tap-off points		DT	Tap-off point distance 0.5 m L1, L2, L3, N, 1/2 PE			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
		Number	Distance								
A	m		m		Type	Order No.	Price per PU				kg
Standard lengths, with tap-off points on two sides											
160	3.25	12	0.5		BD2C-2-160-SB-3	BVP:261631		1	1 unit	165	27.500
	2.25	8	0.5		BD2C-2-160-SB-2	BVP:261630		1	1 unit	165	20.100
	1.25	4	0.5		BD2C-2-160-SB-1	BVP:261629		1	1 unit	165	10.600
250	3.25	12	0.5		BD2C-2-250-SB-3	BVP:261634		1	1 unit	165	27.500
	2.25	8	0.5		BD2C-2-250-SB-2	BVP:261633		1	1 unit	165	20.100
	1.25	4	0.5		BD2C-2-250-SB-1	BVP:261632		1	1 unit	165	10.600
400	3.25	12	0.5		BD2C-2-400-SB-3	BVP:261640		1	1 unit	165	33.200
	2.25	8	0.5		BD2C-2-400-SB-2	BVP:261639		1	1 unit	165	23.900
	1.25	4	0.5		BD2C-2-400-SB-1	BVP:261638		1	1 unit	165	14.700
630	3.25	12	0.5		BD2C-2-630-SB-3	BVP:261652		1	1 unit	165	57.400
	2.25	8	0.5		BD2C-2-630-SB-2	BVP:261651		1	1 unit	165	39.500
	1.25	4	0.5		BD2C-2-630-SB-1	BVP:261650		1	1 unit	165	25.600
800	3.25	12	0.5		BD2C-2-800-SB-3	BVP:261658		1	1 unit	165	57.400
	2.25	8	0.5		BD2C-2-800-SB-2	BVP:261657		1	1 unit	165	39.500
	1.25	4	0.5		BD2C-2-800-SB-1	BVP:261656		1	1 unit	165	25.600
1000	3.25	12	0.5		BD2C-2-1000-SB-3	BVP:261664		1	1 unit	165	76.800
	2.25	8	0.5		BD2C-2-1000-SB-2	BVP:261663		1	1 unit	165	52.800
	1.25	4	0.5		BD2C-2-1000-SB-1	BVP:261662		1	1 unit	165	32.900
1250	3.25	12	0.5		BD2C-2-1250-SB-3	BVP:261670		1	1 unit	165	112.900
	2.25	8	0.5		BD2C-2-1250-SB-2	BVP:261669		1	1 unit	165	77.600
	1.25	4	0.5		BD2C-2-1250-SB-1	BVP:261668		1	1 unit	165	46.400
Standard lengths, without tap-off points											
400	3.25	--	--		BD2C-2-400-SO-3	BVP:261643		1	1 unit	165	32.500
	2.25	--	--		BD2C-2-400-SO-2	BVP:261642		1	1 unit	165	23.900
	1.25	--	--		BD2C-2-400-SO-1	BVP:261641		1	1 unit	165	14.700
630	3.25	--	--		BD2C-2-630-SO-3	BVP:261655		1	1 unit	165	58.400
	2.25	--	--		BD2C-2-630-SO-2	BVP:261654		1	1 unit	165	40.500
	1.25	--	--		BD2C-2-630-SO-1	BVP:261653		1	1 unit	165	26.100
800	3.25	--	--		BD2C-2-800-SO-3	BVP:261661		1	1 unit	165	58.400
	2.25	--	--		BD2C-2-800-SO-2	BVP:261660		1	1 unit	165	40.500
	1.25	--	--		BD2C-2-800-SO-1	BVP:261659		1	1 unit	165	26.100
1000	3.25	--	--		BD2C-2-1000-SO-3	BVP:261667		1	1 unit	165	77.800
	2.25	--	--		BD2C-2-1000-SO-2	BVP:261666		1	1 unit	165	53.800
	1.25	--	--		BD2C-2-1000-SO-1	BVP:261665		1	1 unit	165	33.400
1250	3.25	--	--		BD2C-2-1250-SO-3	BVP:261673		1	1 unit	165	113.900
	2.25	--	--		BD2C-2-1250-SO-2	BVP:261672		1	1 unit	165	78.600
	1.25	--	--		BD2C-2-1250-SO-1	BVP:261671		1	1 unit	165	46.900

Special colors available on request.

Version	DT	Type suffix	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Fire barrier (optional)								kg
Fire barrier S120		+BD2-S120-BX*-M*	BVP:931959		1	1 unit	165	1.500

For BX* specify the required dimension in meters from the center of the joint block (end without joint block) to the center of the fire wall or fire ceiling, for -M* specify the wall or ceiling thickness.

For approval in Germany:
BD2-S90(S120)-ZUL-D fire barrier approval kit
[see page 15/72.](#)

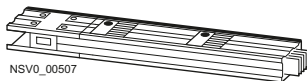
For the configuration of the fire barrier, [see Catalog LV 70.](#)

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Trunking units

With copper busbars



Standard lengths, with tap-off points on two sides, with joint block



Standard lengths, without tap-off points, with joint block

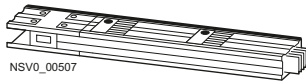
Rated current I_n	Length	Tap-off points		DT	Tap-off point distance 0.5 m L1, L2, L3, N, PE			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
		Number	Distance		Type	Order No.	Price per PU				
A	m		m								kg
Standard lengths, with tap-off points on two sides											
160	3.25	12	0.5		BD2C-3-160-SB-3	BVP:261712		1	1 unit	165	27.500
	2.25	8	0.5		BD2C-3-160-SB-2	BVP:261711		1	1 unit	165	20.100
	1.25	4	0.5		BD2C-3-160-SB-1	BVP:261710		1	1 unit	165	10.600
250	3.25	12	0.5		BD2C-3-250-SB-3	BVP:261715		1	1 unit	165	27.500
	2.25	8	0.5		BD2C-3-250-SB-2	BVP:261714		1	1 unit	165	20.100
	1.25	4	0.5		BD2C-3-250-SB-1	BVP:261713		1	1 unit	165	10.600
400	3.25	12	0.5		BD2C-3-400-SB-3	BVP:261721		1	1 unit	165	34.400
	2.25	8	0.5		BD2C-3-400-SB-2	BVP:261720		1	1 unit	165	24.700
	1.25	4	0.5		BD2C-3-400-SB-1	BVP:261719		1	1 unit	165	15.100
630	3.25	12	0.5		BD2C-3-630-SB-3	BVP:261733		1	1 unit	165	60.800
	2.25	8	0.5		BD2C-3-630-SB-2	BVP:261732		1	1 unit	165	41.900
	1.25	4	0.5		BD2C-3-630-SB-1	BVP:261731		1	1 unit	165	26.900
800	3.25	12	0.5		BD2C-3-800-SB-3	BVP:261739		1	1 unit	165	60.800
	2.25	8	0.5		BD2C-3-800-SB-2	BVP:261738		1	1 unit	165	41.900
	1.25	4	0.5		BD2C-3-800-SB-1	BVP:261737		1	1 unit	165	26.900
1000	3.25	12	0.5		BD2C-3-1000-SB-3	BVP:261745		1	1 unit	165	80.700
	2.25	8	0.5		BD2C-3-1000-SB-2	BVP:261744		1	1 unit	165	55.500
	1.25	4	0.5		BD2C-3-1000-SB-1	BVP:261743		1	1 unit	165	34.400
1250	3.25	12	0.5		BD2C-3-1250-SB-3	BVP:261751		1	1 unit	165	120.900
	2.25	8	0.5		BD2C-3-1250-SB-2	BVP:261750		1	1 unit	165	83.100
	1.25	4	0.5		BD2C-3-1250-SB-1	BVP:261749		1	1 unit	165	49.400
Standard lengths, without tap-off points											
400	3.25	--	--		BD2C-3-400-SO-3	BVP:261724		1	1 unit	165	33.700
	2.25	--	--		BD2C-3-400-SO-2	BVP:261723		1	1 unit	165	24.700
	1.25	--	--		BD2C-3-400-SO-1	BVP:261722		1	1 unit	165	15.100
630	3.25	--	--		BD2C-3-630-SO-3	BVP:261736		1	1 unit	165	61.800
	2.25	--	--		BD2C-3-630-SO-2	BVP:261735		1	1 unit	165	42.900
	1.25	--	--		BD2C-3-630-SO-1	BVP:261734		1	1 unit	165	27.400
800	3.25	--	--		BD2C-3-800-SO-3	BVP:261742		1	1 unit	165	61.800
	2.25	--	--		BD2C-3-800-SO-2	BVP:261741		1	1 unit	165	42.900
	1.25	--	--		BD2C-3-800-SO-1	BVP:261740		1	1 unit	165	27.400
1000	3.25	--	--		BD2C-3-1000-SO-3	BVP:261748		1	1 unit	165	81.700
	2.25	--	--		BD2C-3-1000-SO-2	BVP:261747		1	1 unit	165	56.500
	1.25	--	--		BD2C-3-1000-SO-1	BVP:261746		1	1 unit	165	34.900
1250	3.25	--	--		BD2C-3-1250-SO-3	BVP:261754		1	1 unit	165	121.900
	2.25	--	--		BD2C-3-1250-SO-2	BVP:261753		1	1 unit	165	84.100
	1.25	--	--		BD2C-3-1250-SO-1	BVP:261752		1	1 unit	165	49.900

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Trunking units

With copper busbars



Optional lengths, with tap-off points on two sides, with joint block



Optional lengths, without tap-off points, with joint block

Rated current I_n	Length	Tap-off points Number	Distance	DT	Tap-off point distance 0.5 m L1, L2, L3, N, 1/2 PE			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
A	m		m		Type	Order No.	Price per PU				kg
Optional lengths, with tap-off points on two sides											
160	2.26 ... 3.24	8 ... 12	0.5		BD2C-2-160-WB-3W*	BVP:261674		1	1 unit	165	27.200
	1.26 ... 2.24	4 ... 8	0.5		BD2C-2-160-WB-2W*	BVP:261675		1	1 unit	165	19.900
250	2.26 ... 3.24	8 ... 12	0.5		BD2C-2-250-WB-3W*	BVP:261676		1	1 unit	165	27.200
	1.26 ... 2.24	4 ... 8	0.5		BD2C-2-250-WB-2W*	BVP:261677		1	1 unit	165	19.900
400	2.26 ... 3.24	8 ... 12	0.5		BD2C-2-400-WB-3W*	BVP:261680		1	1 unit	165	32.500
	1.26 ... 2.24	4 ... 8	0.5		BD2C-2-400-WB-2W*	BVP:261681		1	1 unit	165	23.400
630	2.26 ... 3.24	8 ... 12	0.5		BD2C-2-630-WB-3W*	BVP:261684		1	1 unit	165	63.400
	1.26 ... 2.24	4 ... 8	0.5		BD2C-2-630-WB-2W*	BVP:261685		1	1 unit	165	43.500
800	2.26 ... 3.24	8 ... 12	0.5		BD2C-2-800-WB-3W*	BVP:261686		1	1 unit	165	63.400
	1.26 ... 2.24	4 ... 8	0.5		BD2C-2-800-WB-2W*	BVP:261687		1	1 unit	165	43.500
1000	2.26 ... 3.24	8 ... 12	0.5		BD2C-2-1000-WB-3W*	BVP:261688		1	1 unit	165	82.800
	1.26 ... 2.24	4 ... 8	0.5		BD2C-2-1000-WB-2W*	BVP:261689		1	1 unit	165	56.800
1250	2.26 ... 3.24	8 ... 12	0.5		BD2C-2-1250-WB-3W*	BVP:261690		1	1 unit	165	118.900
	1.26 ... 2.24	4 ... 8	0.5		BD2C-2-1250-WB-2W*	BVP:261691		1	1 unit	165	81.600
Optional lengths, without tap-off points											
400	2.26 ... 3.24	--	--		BD2C-2-400-WO-3W*	BVP:261692		1	1 unit	165	32.500
	1.26 ... 2.24	--	--		BD2C-2-400-WO-2W*	BVP:261693		1	1 unit	165	23.400
	0.50 ... 1.24	--	--		BD2C-2-400-WO-1W*	BVP:261694		1	1 unit	165	14.300
630	2.26 ... 3.24	--	--		BD2C-2-630-WO-3W*	BVP:261698		1	1 unit	165	63.400
	1.26 ... 2.24	--	--		BD2C-2-630-WO-2W*	BVP:261699		1	1 unit	165	43.500
	0.50 ... 1.24	--	--		BD2C-2-630-WO-1W*	BVP:261700		1	1 unit	165	26.400
800	2.26 ... 3.24	--	--		BD2C-2-800-WO-3W*	BVP:261701		1	1 unit	165	63.400
	1.26 ... 2.24	--	--		BD2C-2-800-WO-2W*	BVP:261702		1	1 unit	165	43.500
	0.50 ... 1.24	--	--		BD2C-2-800-WO-1W*	BVP:261703		1	1 unit	165	26.400
1000	2.26 ... 3.24	--	--		BD2C-2-1000-WO-3W*	BVP:261704		1	1 unit	165	82.800
	1.26 ... 2.24	--	--		BD2C-2-1000-WO-2W*	BVP:261705		1	1 unit	165	56.800
	0.50 ... 1.24	--	--		BD2C-2-1000-WO-1W*	BVP:261706		1	1 unit	165	33.700
1250	2.26 ... 3.24	--	--		BD2C-2-1250-WO-3W*	BVP:261707		1	1 unit	165	118.900
	1.26 ... 2.24	--	--		BD2C-2-1250-WO-2W*	BVP:261708		1	1 unit	165	81.600
	0.50 ... 1.24	--	--		BD2C-2-1250-WO-1W*	BVP:261709		1	1 unit	165	47.200

For W*, you must specify the required dimension in meters between the center of one joint block to the center of the next, e.g. -3W2.50.

For optional lengths see [Catalog LV 70](#).

Special colors available on request.

Version	DT	Type suffix	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
Fire barrier (optional)								
Fire barrier S120		+BD2-S120-BX*-M*	BVP:931959		1	1 unit	165	1.500

For BX* specify the required dimension in meters from the center of the joint block (end without joint block) to the center of the fire wall or fire ceiling, for -M* specify the wall or ceiling thickness.

For the configuration of the fire barrier, see [Catalog LV 70](#).

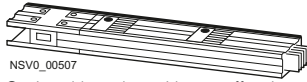
For approval in Germany:
BD2-S90(S120)-ZUL-D fire barrier approval kit
see [page 15/72](#).

Busbar Trunking Systems

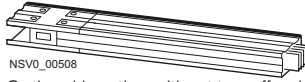
BD2 System – 160 ... 1250 A

Trunking units

With copper busbars



Optional lengths, with tap-off points on two sides, with joint block



Optional lengths, without tap-off points, with joint block

Rated current I_n	Length	Tap-off points		DT	Tap-off point distance 0.5 m L1, L2, L3, N, PE			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
		Number	Distance		Type	Order No.	Price per PU				
A	m		m								kg
Optional lengths, with tap-off points on two sides											
160	2.26 ... 3.24	8 ... 12	0.5		BD2C-3-160-WB-3W*	BVP:261755		1	1 unit	165	27.200
	1.26 ... 2.24	4 ... 8	0.5		BD2C-3-160-WB-2W*	BVP:261756		1	1 unit	165	19.900
250	2.26 ... 3.24	8 ... 12	0.5		BD2C-3-250-WB-3W*	BVP:261757		1	1 unit	165	27.200
	1.26 ... 2.24	4 ... 8	0.5		BD2C-3-250-WB-2W*	BVP:261758		1	1 unit	165	19.900
400	2.26 ... 3.24	8 ... 12	0.5		BD2C-3-400-WB-3W*	BVP:261761		1	1 unit	165	33.700
	1.26 ... 2.24	4 ... 8	0.5		BD2C-3-400-WB-2W*	BVP:261762		1	1 unit	165	24.200
630	2.26 ... 3.24	8 ... 12	0.5		BD2C-3-630-WB-3W*	BVP:261765		1	1 unit	165	66.800
	1.26 ... 2.24	4 ... 8	0.5		BD2C-3-630-WB-2W*	BVP:261766		1	1 unit	165	45.900
800	2.26 ... 3.24	8 ... 12	0.5		BD2C-3-800-WB-3W*	BVP:261767		1	1 unit	165	66.800
	1.26 ... 2.24	4 ... 8	0.5		BD2C-3-800-WB-2W*	BVP:261768		1	1 unit	165	45.900
1000	2.26 ... 3.24	8 ... 12	0.5		BD2C-3-1000-WB-3W*	BVP:261769		1	1 unit	165	86.700
	1.26 ... 2.24	4 ... 8	0.5		BD2C-3-1000-WB-2W*	BVP:261770		1	1 unit	165	59.500
1250	2.26 ... 3.24	8 ... 12	0.5		BD2C-3-1250-WB-3W*	BVP:261771		1	1 unit	165	126.900
	1.26 ... 2.24	4 ... 8	0.5		BD2C-3-1250-WB-2W*	BVP:261772		1	1 unit	165	87.100
Optional lengths, without tap-off points											
400	2.26 ... 3.24	--	--		BD2C-3-400-WO-3W*	BVP:261773		1	1 unit	165	33.700
	1.26 ... 2.24	--	--		BD2C-3-400-WO-2W*	BVP:261774		1	1 unit	165	24.200
	0.50 ... 1.24	--	--		BD2C-3-400-WO-1W*	BVP:261775		1	1 unit	165	14.700
630	2.26 ... 3.24	--	--		BD2C-3-630-WO-3W*	BVP:261779		1	1 unit	165	66.800
	1.26 ... 2.24	--	--		BD2C-3-630-WO-2W*	BVP:261780		1	1 unit	165	45.900
	0.50 ... 1.24	--	--		BD2C-3-630-WO-1W*	BVP:261781		1	1 unit	165	27.700
800	2.26 ... 3.24	--	--		BD2C-3-800-WO-3W*	BVP:261782		1	1 unit	165	66.800
	1.26 ... 2.24	--	--		BD2C-3-800-WO-2W*	BVP:261783		1	1 unit	165	45.900
	0.50 ... 1.24	--	--		BD2C-3-800-WO-1W*	BVP:261784		1	1 unit	165	27.700
1000	2.26 ... 3.24	--	--		BD2C-3-1000-WO-3W*	BVP:261785		1	1 unit	165	86.700
	1.26 ... 2.24	--	--		BD2C-3-1000-WO-2W*	BVP:261786		1	1 unit	165	59.500
	0.50 ... 1.24	--	--		BD2C-3-1000-WO-1W*	BVP:261787		1	1 unit	165	34.900
1250	2.26 ... 3.24	--	--		BD2C-3-1250-WO-3W*	BVP:261788		1	1 unit	165	126.900
	1.26 ... 2.24	--	--		BD2C-3-1250-WO-2W*	BVP:261789		1	1 unit	165	87.100
	0.50 ... 1.24	--	--		BD2C-3-1250-WO-1W*	BVP:261790		1	1 unit	165	50.200

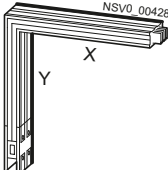
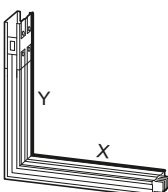
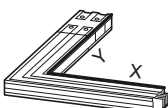
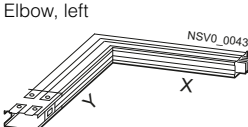
Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Junction units

Selection and ordering data

With aluminum busbars

Version	Length/ Optional length	DT	Rated current I_n 160 A, 250 A, 400 A			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
			Type	Order No.	Price per PU				
L-units (with joint block)									
(fitted to Y as standard)									
Knee, rear 	X0.36/ Y0.36		BD2A-400-LH	BVP:261793		1	1 unit	165	8.500
	X0.36 ... 1.25/ Y0.36		BD2A-400-LH-X*	BVP:261846		1	1 unit	165	18.000
	X0.36/ Y0.36 ... 1.25		BD2A-400-LH-Y*	BVP:261847		1	1 unit	165	18.000
	X0.36 ... 1.25/ Y0.36 ... 1.25		BD2A-400-LH-X*/Y*	BVP:261848		1	1 unit	165	28.000
Knee, front 	X0.36/ Y0.36		BD2A-400-LV	BVP:261796		1	1 unit	165	8.500
	X0.36 ... 1.25/ Y0.36		BD2A-400-LV-X*	BVP:261849		1	1 unit	165	18.000
	X0.36/ Y0.36 ... 1.25		BD2A-400-LV-Y*	BVP:261850		1	1 unit	165	18.000
	X0.36 ... 1.25/ Y0.36 ... 1.25		BD2A-400-LV-X*/Y*	BVP:261851		1	1 unit	165	28.000
Elbow, right 	X0.36/ Y0.36		BD2A-400-LR	BVP:261795		1	1 unit	165	8.000
	X0.36 ... 1.25/ Y0.36		BD2A-400-LR-X*	BVP:261852		1	1 unit	165	18.000
	X0.36/ Y0.36 ... 1.25		BD2A-400-LR-Y*	BVP:261853		1	1 unit	165	18.000
	X0.36 ... 1.25/ Y0.36 ... 1.25		BD2A-400-LR-X*/Y*	BVP:261854		1	1 unit	165	28.000
Elbow, left 	X0.36/ Y0.36		BD2A-400-LL	BVP:261794		1	1 unit	165	8.000
	X0.36 ... 1.25/ Y0.36		BD2A-400-LL-X*	BVP:261855		1	1 unit	165	18.000
	X0.36/ Y0.36 ... 1.25		BD2A-400-LL-Y*	BVP:261856		1	1 unit	165	18.000
	X0.36 ... 1.25/ Y0.36 ... 1.25		BD2A-400-LL-X*/Y*	BVP:261857		1	1 unit	165	28.000

Optional lengths: For X* and Y* you must specify the required dimension in meters from the center of the joint block to the outside edge of the trunking unit (see also Catalog LV 70).

Special colors available on request.

Version	DT	Type suffix	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Fire barrier for L-units (optional)								
Fire barrier S90 in limb X		+BD2-S90-BX*-M*	BVP:931956		1	1 unit	165	1.000
Fire barrier S90 in limb Y		+BD2-S90-BY*-M*	BVP:931957		1	1 unit	165	1.000
Fire barrier S120 in limb X		+BD2-S120-BX*-M*	BVP:931959		1	1 unit	165	1.500
Fire barrier S120 in limb Y		+BD2-S120-BY*-M*	BVP:931960		1	1 unit	165	1.500

For BX* or BY you must specify the required dimension in meters from the center of the joint block (for BX*: end without joint block) to the center of the fire wall or fire ceiling, for -M* specify the wall or ceiling thickness.

For the configuration of the fire barrier, see Catalog LV 70.

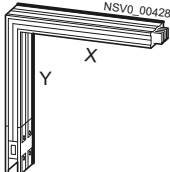
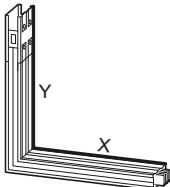
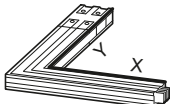
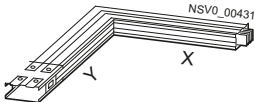
For approval in Germany:
BD2-S90(S120)-ZUL-D fire barrier approval kit
see page 15/72.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Junction units

With aluminum busbars

Version	Length/ Optional length	DT	Rated current I_n 630 A, 800 A, 1000 A			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
			Type	Order No.	Price per PU				
L-units (with joint block)									
(fitted to Y as standard)									
	X0.36/ Y0.36	BD2A-1000-LH	BVP:261803	1	1 unit	165	17.000		
	X0.36 ... 1.25/ Y0.36	BD2A-1000-LH-X*	BVP:261874	1	1 unit	165	38.000		
	X0.36/ Y0.36 ... 1.25	BD2A-1000-LH-Y*	BVP:261875	1	1 unit	165	38.000		
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2A-1000-LH-X*/Y*	BVP:261876	1	1 unit	165	59.000		
	X0.36/ Y0.36	BD2A-1000-LV	BVP:261806	1	1 unit	165	17.000		
	X0.36 ... 1.25/ Y0.36	BD2A-1000-LV-X*	BVP:261877	1	1 unit	165	38.000		
	X0.36/ Y0.36 ... 1.25	BD2A-1000-LV-Y*	BVP:261878	1	1 unit	165	38.000		
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2A-1000-LV-X*/Y*	BVP:261879	1	1 unit	165	59.000		
	X0.36/ Y0.36	BD2A-1000-LR	BVP:261805	1	1 unit	165	17.000		
	X0.36 ... 1.25/ Y0.36	BD2A-1000-LR-X*	BVP:261880	1	1 unit	165	38.000		
	X0.36/ Y0.36 ... 1.25	BD2A-1000-LR-Y*	BVP:261881	1	1 unit	165	38.000		
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2A-1000-LR-X*/Y*	BVP:261882	1	1 unit	165	59.000		
	X0.36/ Y0.36	BD2A-1000-LL	BVP:261804	1	1 unit	165	17.000		
	X0.36 ... 1.25/ Y0.36	BD2A-1000-LL-X*	BVP:261827	1	1 unit	165	38.000		
	X0.36/ Y0.36 ... 1.25	BD2A-1000-LL-Y*	BVP:261828	1	1 unit	165	38.000		
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2A-1000-LL-X*/Y*	BVP:261829	1	1 unit	165	59.000		

Optional lengths:

For X* and Y* you must specify the required dimension in meters from the center of the joint block to the outside edge of the trunking unit (see also Catalog LV 70).

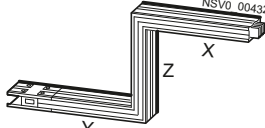
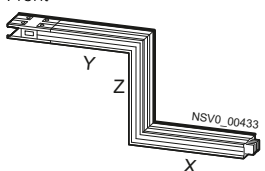
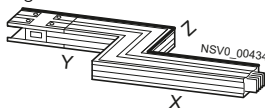
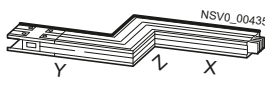
Special colors available on request.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Junction units

With aluminum busbars

Version	Length/ Optional length	DT	Rated current I_n 160 A, 250 A, 400 A			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
			Type	Order No.	Price per PU				
Z-units (with joint block) (fitted to Y as standard)									
Rear 	X0.36/ Y0.36/ Z0.14 ... 1.25	BD2A-400-ZH-Z*	BVP:261814	1	1 unit	165	13.000		
	X0.36 ... 0.60/ Y0.36 ... 0.60/ Z0.14 ... 1.25	BD2A-400-ZH-X*/Y*/Z*	BVP:261822	1	1 unit	165	16.000		
Front 	X0.36/ Y0.36/ Z0.14 ... 1.25	BD2A-400-ZV-Z*	BVP:261813	1	1 unit	165	13.000		
	X0.36 ... 0.60/ Y0.36 ... 0.60/ Z0.14 ... 1.25	BD2A-400-ZV-X*/Y*/Z*	BVP:261821	1	1 unit	165	16.000		
Right 	X0.36/ Y0.36/ Z0.34 ... 1.25	BD2A-400-ZR-Z*	BVP:261811	1	1 unit	165	13.000		
	X0.36 ... 0.60/ Y0.36 ... 0.60/ Z0.34 ... 1.25	BD2A-400-ZR-X*/Y*/Z*	BVP:261819	1	1 unit	165	16.000		
Left 	X0.36/ Y0.36/ Z0.34 ... 1.25	BD2A-400-ZL-Z*	BVP:261812	1	1 unit	165	13.000		
	X0.36 ... 0.60/ Y0.36 ... 0.60/ Z0.34 ... 1.25	BD2A-400-ZL-X*/Y*/Z*	BVP:261820	1	1 unit	165	16.000		

Optional lengths: For X* and Y* you must specify the required dimension in meters from the center of the joint block to the outside edge of the trunking unit, for Z* from the outer edge to the outer edge of the trunking unit ([see also Catalog LV 70](#)).

Special colors available on request.

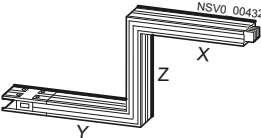
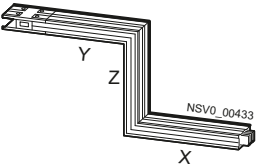
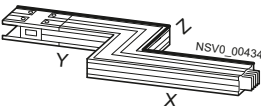
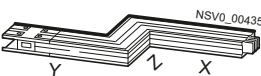
Fire barrier on limb Z as standard on request.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Junction units

With aluminum busbars

Version	Length/ Optional length	DT	Rated current I_n 630 A, 800 A, 1000 A			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
			Type	Order No.	Price per PU				
Z-units (with joint block) (fitted to Y as standard)									
Rear 	X0.36/ Y0.36/ Z0.26 ... 1.25	BD2A-1000-ZH-Z*	BVP:261818	1	1 unit	165	26.000		
	X0.36 ... 0.60/ Y0.36 ... 0.60/ Z0.26 ... 1.25	BD2A-1000-ZH-X*/Y*/Z*	BVP:261826	1	1 unit	165	32.000		
Front 	X0.36/ Y0.36/ Z0.26 ... 1.25	BD2A-1000-ZV-Z*	BVP:261817	1	1 unit	165	26.000		
	X0.36 ... 0.60/ Y0.36 ... 0.60/ Z0.26 ... 1.25	BD2A-1000-ZV-X*/Y*/Z*	BVP:261825	1	1 unit	165	32.000		
Right 	X0.36/ Y0.36/ Z0.34 ... 1.25	BD2A-1000-ZR-Z*	BVP:261815	1	1 unit	165	26.000		
	X0.36 ... 0.60/ Y0.36 ... 0.60/ Z0.34 ... 1.25	BD2A-1000-ZR-X*/Y*/Z*	BVP:261823	1	1 unit	165	32.000		
Left 	X0.36/ Y0.36/ Z0.34 ... 1.25	BD2A-1000-ZL-Z*	BVP:261816	1	1 unit	165	26.000		
	X0.36 ... 0.60/ Y0.36 ... 0.60/ Z0.34 ... 1.25	BD2A-1000-ZL-X*/Y*/Z*	BVP:261824	1	1 unit	165	32.000		

Optional lengths: For X* and Y* you must specify the required dimension in meters from the center of the joint block to the outside edge of the trunking unit, for Z* from the outer edge to the outer edge of the trunking unit ([see also Catalog LV 70](#)).

Special colors available on request.

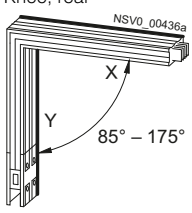
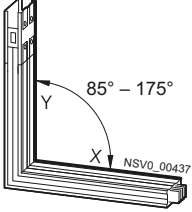
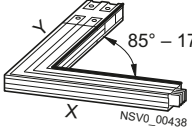
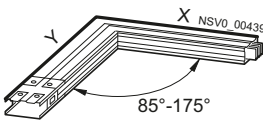
Fire barrier on limb Z as standard on request.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Junction units

With aluminum busbars

Version	Length/ Optional length	DT	Rated current I_n 160 A, 250 A, 400 A	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
		Type	Order No.	Price per PU			
L-units (with joint block), with engineered angle 85° ... 175° (fitted to Y as standard)							
Knee, rear 	X0.36/ Y0.36	BD2A-400-LH-G*	BVP:261858	1	1 unit	165	8.000
	X0.36 ... 1.25/ Y0.36	BD2A-400-LH-X*-G*	BVP:261859	1	1 unit	165	18.000
	X0.36/ Y0.36 ... 1.25	BD2A-400-LH-Y*-G*	BVP:261860	1	1 unit	165	18.000
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2A-400-LH-X*/Y*-G*	BVP:261861	1	1 unit	165	28.000
Knee, front 	X0.36/ Y0.36	BD2A-400-LV-G*	BVP:261862	1	1 unit	165	8.000
	X0.36 ... 1.25/ Y0.36	BD2A-400-LV-X*-G*	BVP:261863	1	1 unit	165	18.000
	X0.36/ Y0.36 ... 1.25	BD2A-400-LV-Y*-G*	BVP:261864	1	1 unit	165	18.000
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2A-400-LV-X*/Y*-G*	BVP:261865	1	1 unit	165	28.000
Elbow, right 	X0.36/ Y0.36	BD2A-400-LR-G*	BVP:261866	1	1 unit	165	8.000
	X0.36 ... 1.25/ Y0.36	BD2A-400-LR-X*-G*	BVP:261867	1	1 unit	165	18.000
	X0.36/ Y0.36 ... 1.25	BD2A-400-LR-Y*-G*	BVP:261868	1	1 unit	165	18.000
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2A-400-LR-X*/Y*-G*	BVP:261869	1	1 unit	165	28.000
Elbow, left 	X0.36/ Y0.36	BD2A-400-LL-G*	BVP:261870	1	1 unit	165	8.000
	X0.36 ... 1.25/ Y0.36	BD2A-400-LL-X*-G*	BVP:261871	1	1 unit	165	18.000
	X0.36/ Y0.36 ... 1.25	BD2A-400-LL-Y*-G*	BVP:261872	1	1 unit	165	18.000
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2A-400-LL-X*/Y*-G*	BVP:261873	1	1 unit	165	28.000

Elbow: For G* you must specify the required number of degrees in 5° increments.

Optional lengths: For X* and Y* you must specify the required dimension in meters from the center of the joint block to the outside edge of the trunking unit (see also Catalog LV 70).

Special colors available on request.

Version	Type suffix	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Fire barrier for L-units (optional)							
Fire barrier S90 in limb X	+BD2-S90-BX*-M*	BVP:931956		1	1 unit	165	1.000
Fire barrier S90 in limb Y	+BD2-S90-BY*-M*	BVP:931957		1	1 unit	165	1.000
Fire barrier S120 in limb X	+BD2-S120-BX*-M*	BVP:931959		1	1 unit	165	1.500
Fire barrier S120 in limb Y	+BD2-S120-BY*-M*	BVP:931960		1	1 unit	165	1.500

For BX* or BY you must specify the required dimension in meters from the center of the joint block (for BX*: end without joint block) to the center of the fire wall or fire ceiling, for -M* specify the wall or ceiling thickness.

For the configuration of the fire barrier, see Catalog LV 70.

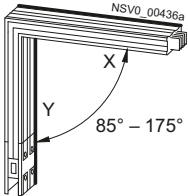
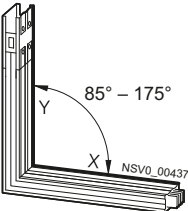
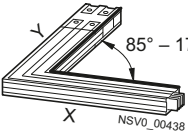
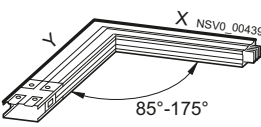
For approval in Germany:
BD2-S90(S120)-ZUL-D fire barrier approval kit
see page 15/72.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Junction units

With aluminum busbars

Version	Length/ Optional length	DT	Rated current I_n 630 A, 800 A, 1000 A			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
			Type	Order No.	Price per PU				
L-units (with joint block), with engineered angle 85° ... 175° (fitted to Y as standard)									
	X0.36/ Y0.36	BD2A-1000-LH-G*	BVP:261830	1	1 unit	165	17.000		
	X0.36 ... 1.25/ Y0.36	BD2A-1000-LH-X*-G*	BVP:261831	1	1 unit	165	38.000		
	X0.36/ Y0.36 ... 1.25	BD2A-1000-LH-Y*-G*	BVP:261832	1	1 unit	165	38.000		
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2A-1000-LH-X*/Y*-G*	BVP:261833	1	1 unit	165	59.000		
	X0.36/ Y0.36	BD2A-1000-LV-G*	BVP:261834	1	1 unit	165	17.000		
	X0.36 ... 1.25/ Y0.36	BD2A-1000-LV-X*-G*	BVP:261835	1	1 unit	165	38.000		
	X0.36/ Y0.36 ... 1.25	BD2A-1000-LV-Y*-G*	BVP:261836	1	1 unit	165	38.000		
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2A-1000-LV-X*/Y*-G*	BVP:261837	1	1 unit	165	59.000		
	X0.36/ Y0.36	BD2A-1000-LR-G*	BVP:261838	1	1 unit	165	17.000		
	X0.36 ... 1.25/ Y0.36	BD2A-1000-LR-X*-G*	BVP:261839	1	1 unit	165	38.000		
	X0.36/ Y0.36 ... 1.25	BD2A-1000-LR-Y*-G*	BVP:261840	1	1 unit	165	38.000		
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2A-1000-LR-X*/Y*-G*	BVP:261841	1	1 unit	165	59.000		
	X0.36/ Y0.36	BD2A-1000-LL-G*	BVP:261842	1	1 unit	165	17.000		
	X0.36 ... 1.25/ Y0.36	BD2A-1000-LL-X*-G*	BVP:261843	1	1 unit	165	38.000		
	X0.36/ Y0.36 ... 1.25	BD2A-1000-LL-Y*-G*	BVP:261844	1	1 unit	165	38.000		
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2A-1000-LL-X*/Y*-G*	BVP:261845	1	1 unit	165	59.000		

Elbow: For G* you must specify the required number of degrees in 5° increments.

Optional lengths: For X* and Y* you must specify the required dimension in meters from the center of the joint block to the outside edge of the trunking unit (see also Catalog LV 70).

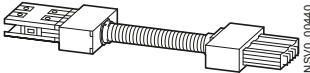
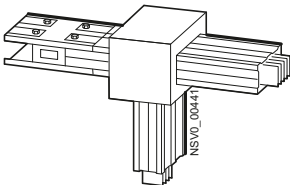
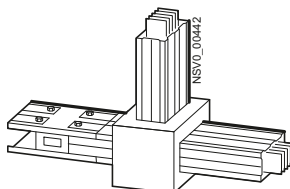
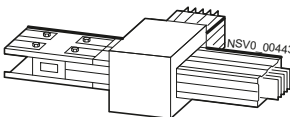
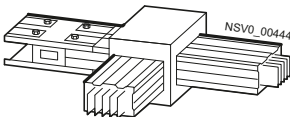
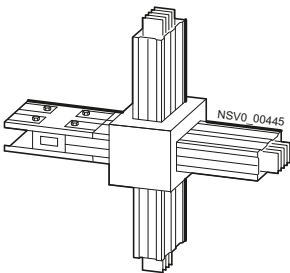
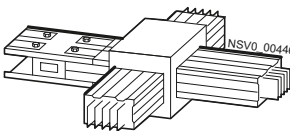
Special colors available on request.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Junction units

With aluminum busbars

Version	Length	DT	Rated current I_n 160 A, 250 A, 400 A			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
			Type	Order No.	Price per PU				
Flexible junction units (with joint block) ¹⁾ (fitted to Y as standard)									
 NSV0_00440	1.25		BD2-400-R	BVP:045889		1	1 unit	165	11.000
T-units (with joint block)									
Rear  NSV0_00441	0.36		BD2A-400-TH	BVP:261797		1	1 unit	165	12.800
Front  NSV0_00442	0.36		BD2A-400-TV	BVP:261800		1	1 unit	165	12.800
Right  NSV0_00443	0.36		BD2A-400-TR	BVP:261799		1	1 unit	165	12.800
Left  NSV0_00444	0.36		BD2A-400-TL	BVP:261798		1	1 unit	165	12.800
K-units (with joint block)									
Front/rear  NSV0_00445	0.36		BD2A-400-KVH	BVP:261792		1	1 unit	165	15.300
Right/left  NSV0_00446	0.36		BD2A-400-KRL	BVP:261791		1	1 unit	165	15.300

Special colors available on request.

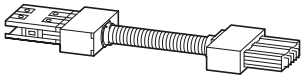
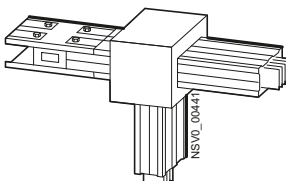
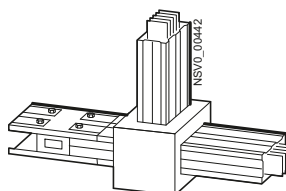
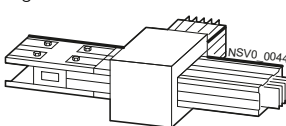
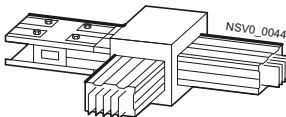
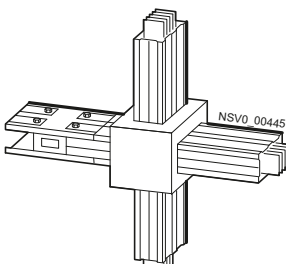
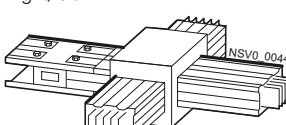
¹⁾ Upgradable to max. IP54.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Junction units

With aluminum busbars

Version	Length	DT	Rated current I_n 630 A, 800 A, 1000 A ¹⁾			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
			Type	Order No.	Price per PU				
Flexible junction units (with joint block) ²⁾ (fitted to Y as standard)									
 NSV0_00440	1.75 ¹⁾		BD2-800-R	BVP:045890		1	1 unit	165	22.000
T-units (with joint block)									
Rear  NSV0_00441	0.36		BD2A-1000-TH	BVP:261807		1	1 unit	165	25.000
Front  NSV0_00442	0.36		BD2A-1000-TV	BVP:261810		1	1 unit	165	25.000
Right  NSV0_00443	0.36		BD2A-1000-TR	BVP:261809		1	1 unit	165	25.000
Left  NSV0_00444	0.36		BD2A-1000-TL	BVP:261808		1	1 unit	165	25.000
K-units (with joint block)									
Front/rear  NSV0_00445	0.36		BD2A-1000-KVH	BVP:261802		1	1 unit	165	32.000
Right/left  NSV0_00446	0.36		BD2A-1000-KRL	BVP:261801		1	1 unit	165	32.000

Special colors available on request.

¹⁾ BD2-800-R for use up to 800 A.

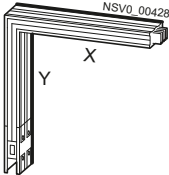
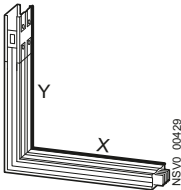
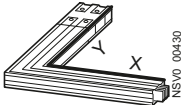
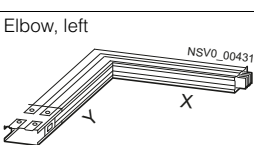
²⁾ Upgradable to max. IP54.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Junction units

With copper busbars

Version	Length/ Optional length	DT	Rated current I_n 160 A, 250 A, 400 A			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
			Type	Order No.	Price per PU				
L-units (with joint block) (fitted to Y as standard)									
	X0.36/ Y0.36	BD2C-400-LH	BVP:261885	1	1 unit	165	15.200		
	X0.36 ... 1.25/ Y0.36	BD2C-400-LH-X*	BVP:261938	1	1 unit	165	31.500		
	X0.36/ Y0.36 ... 1.25	BD2C-400-LH-Y*	BVP:261939	1	1 unit	165	31.500		
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2C-400-LH-X*/Y*	BVP:261940	1	1 unit	165	48.200		
	X0.36/ Y0.36	BD2C-400-LV	BVP:261888	1	1 unit	165	15.200		
	X0.36 ... 1.25/ Y0.36	BD2C-400-LV-X*	BVP:261941	1	1 unit	165	31.500		
	X0.36/ Y0.36 ... 1.25	BD2C-400-LV-Y*	BVP:261942	1	1 unit	165	31.500		
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2C-400-LV-X*/Y*	BVP:261943	1	1 unit	165	48.200		
	X0.36/ Y0.36	BD2C-400-LR	BVP:261887	1	1 unit	165	13.300		
	X0.36 ... 1.25/ Y0.36	BD2C-400-LR-X*	BVP:261944	1	1 unit	165	30.100		
	X0.36/ Y0.36 ... 1.25	BD2C-400-LR-Y*	BVP:261945	1	1 unit	165	30.100		
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2C-400-LR-X*/Y*	BVP:261946	1	1 unit	165	46.600		
	X0.36/ Y0.36	BD2C-400-LL	BVP:261886	1	1 unit	165	13.300		
	X0.36 ... 1.25/ Y0.36	BD2C-400-LL-X*	BVP:261947	1	1 unit	165	30.100		
	X0.36/ Y0.36 ... 1.25	BD2C-400-LL-Y*	BVP:261948	1	1 unit	165	30.100		
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2C-400-LL-X*/Y*	BVP:261949	1	1 unit	165	46.600		

Optional lengths: For X* and Y* you must specify the required dimension in meters from the center of the joint block to the outside edge of the trunking unit (see also Catalog LV 70).

Special colors available on request.

Version	DT	Type suffix	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Fire barrier for L-units (optional)								
Fire barrier S120 in limb X		+BD2-S120-BX*-M*	BVP:931959		1	1 unit	165	1.500
Fire barrier S120 in limb Y		+BD2-S120-BY*-M*	BVP:931960		1	1 unit	165	1.500

For BX* or BY you must specify the required dimension in meters from the center of the joint block (for BX*: end without joint block) to the center of the fire wall or fire ceiling, for -M* specify the wall or ceiling thickness.

For the configuration of the fire barrier, see Catalog LV 70.

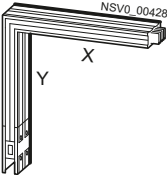
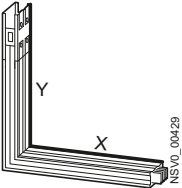
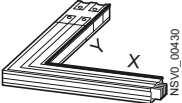
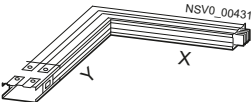
For approval in Germany:
BD2-S90(S120)-ZUL-D fire barrier approval kit
see page 15/72.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Junction units

With copper busbars

Version	Length/ Optional length	DT	Rated current I_n 630 A, 800 A, 1000 A, 1250 A			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
			Type	Order No.	Price per PU				
L-units (with joint block)									
(fitted to Y as standard)									
	Knee, rear	X0.36/ Y0.36	BD2C-1250-LH	BVP:261895	1	1 unit	165	31.900	
		X0.36 ... 1.25/ Y0.36	BD2C-1250-LH-X*	BVP:261966	1	1 unit	165	72.300	
		X0.36/ Y0.36 ... 1.25	BD2C-1250-LH-Y*	BVP:261967	1	1 unit	165	72.300	
		X0.36 ... 1.25/ Y0.36 ... 1.25	BD2C-1250-LH-X*/Y*	BVP:261968	1	1 unit	165	112.800	
	Knee, front	X0.36/ Y0.36	BD2C-1250-LV	BVP:261898	1	1 unit	165	31.900	
		X0.36 ... 1.25/ Y0.36	BD2C-1250-LV-X*	BVP:261969	1	1 unit	165	72.300	
		X0.36/ Y0.36 ... 1.25	BD2C-1250-LV-Y*	BVP:261970	1	1 unit	165	72.300	
		X0.36 ... 1.25/ Y0.36 ... 1.25	BD2C-1250-LV-X*/Y*	BVP:261971	1	1 unit	165	112.800	
	Elbow, right	X0.36/ Y0.36	BD2C-1250-LR	BVP:261897	1	1 unit	165	29.500	
		X0.36 ... 1.25/ Y0.36	BD2C-1250-LR-X*	BVP:261972	1	1 unit	165	70.000	
		X0.36/ Y0.36 ... 1.25	BD2C-1250-LR-Y*	BVP:261973	1	1 unit	165	70.000	
		X0.36 ... 1.25/ Y0.36 ... 1.25	BD2C-1250-LR-X*/Y*	BVP:261974	1	1 unit	165	110.500	
	Elbow, left	X0.36/ Y0.36	BD2C-1250-LL	BVP:261896	1	1 unit	165	29.500	
		X0.36 ... 1.25/ Y0.36	BD2C-1250-LL-X*	BVP:261919	1	1 unit	165	70.000	
		X0.36/ Y0.36 ... 1.25	BD2C-1250-LL-Y*	BVP:261920	1	1 unit	165	70.000	
		X0.36 ... 1.25/ Y0.36 ... 1.25	BD2C-1250-LL-X*/Y*	BVP:261921	1	1 unit	165	110.500	

Optional lengths: For X* and Y* you must specify the required dimension in meters from the center of the joint block to the outside edge of the trunking unit (see also Catalog LV 70).

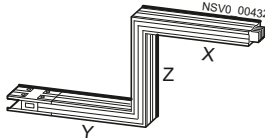
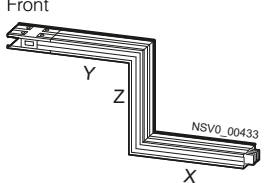
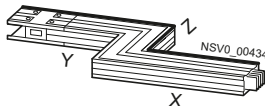
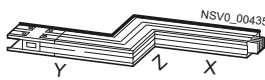
Special colors available on request.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Junction units

With copper busbars

Version	Length/ Optional length	DT	Rated current I_n 160 A, 250 A, 400 A			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Z-units (with joint block) (fitted to Y as standard)			Type	Order No.	Price per PU				
Rear 	X0.36/ Y0.36/ Z0.14 ... 1.25		BD2C-400-ZH-Z*	BVP:261906		1	1 unit	165	29.700
	X0.36 ... 0.60/ Y0.36 ... 0.60/ Z0.14 ... 1.25		BD2C-400-ZH-X*/Y*/Z*	BVP:261914		1	1 unit	165	37.100
Front 	X0.36/ Y0.36/ Z0.14 ... 1.25		BD2C-400-ZV-Z*	BVP:261905		1	1 unit	165	29.700
	X0.36 ... 0.60/ Y0.36 ... 0.60/ Z0.14 ... 1.25		BD2C-400-ZV-X*/Y*/Z*	BVP:261913		1	1 unit	165	37.100
Right 	X0.36/ Y0.36/ Z0.34 ... 1.25		BD2C-400-ZR-Z*	BVP:261903		1	1 unit	165	27.600
	X0.36 ... 0.60/ Y0.36 ... 0.60/ Z0.34 ... 1.25		BD2C-400-ZR-X*/Y*/Z*	BVP:261911		1	1 unit	165	34.100
Left 	X0.36/ Y0.36/ Z0.34 ... 1.25		BD2C-400-ZL-Z*	BVP:261904		1	1 unit	165	27.600
	X0.36 ... 0.60/ Y0.36 ... 0.60/ Z0.34 ... 1.25		BD2C-400-ZL-X*/Y*/Z*	BVP:261912		1	1 unit	165	34.100

Optional lengths: For X* and Y* you must specify the required dimension in meters from the center of the joint block to the outside edge of the trunking unit, for Z* from the outer edge to the outer edge of the trunking unit ([see also Catalog LV 70](#)).

Special colors available on request.

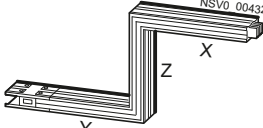
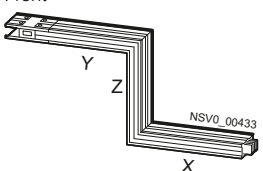
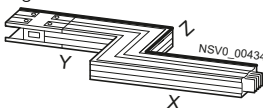
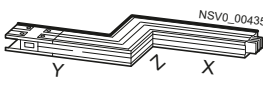
Fire barrier on limb Z as standard on request.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Junction units

With copper busbars

Version	Length/ Optional length	DT	Rated current I_n 630 A, 800 A, 1000 A, 1250 A			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
			Type	Order No.	Price per PU				
Z-units (with joint block) (fitted to Y as standard)									
Rear 	X0.36/ Y0.36/ Z0.26 ... 1.25		BD2C-1250-ZH-Z*	BVP:261910		1	1 unit	165	67.800
	X0.36 ... 0.60/ Y0.36 ... 0.60/ Z0.26 ... 1.25		BD2C-1250-ZH-X*/Y*/Z*	BVP:261918		1	1 unit	165	83.500
Front 	X0.36/ Y0.36/ Z0.26 ... 1.25		BD2C-1250-ZV-Z*	BVP:261909		1	1 unit	165	67.800
	X0.36 ... 0.60/ Y0.36 ... 0.60/ Z0.26 ... 1.25		BD2C-1250-ZV-X*/Y*/Z*	BVP:261917		1	1 unit	165	83.500
Right 	X0.36/ Y0.36/ Z0.34 ... 1.25		BD2C-1250-ZR-Z*	BVP:261907		1	1 unit	165	64.300
	X0.36 ... 0.60/ Y0.36 ... 0.60/ Z0.34 ... 1.25		BD2C-1250-ZR-X*/Y*/Z*	BVP:261915		1	1 unit	165	78.600
Left 	X0.36/ Y0.36/ Z0.34 ... 1.25		BD2C-1250-ZL-Z*	BVP:261908		1	1 unit	165	64.300
	X0.36 ... 0.60/ Y0.36 ... 0.60/ Z0.34 ... 1.25		BD2C-1250-ZL-X*/Y*/Z*	BVP:261916		1	1 unit	165	78.600

Optional lengths: For X* and Y* you must specify the required dimension in meters from the center of the joint block to the outside edge of the trunking unit, for Z* from the outer edge to the outer edge of the trunking unit (see also Catalog LV 70).

Special colors available on request.

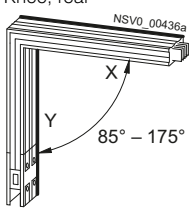
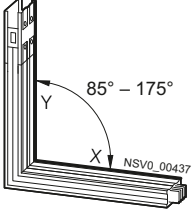
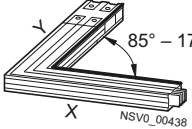
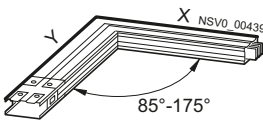
Fire barrier on limb Z as standard on request.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Junction units

With copper busbars

Version	Length/ Optional length	DT	Rated current I_n 160 A, 250 A, 400 A	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
		Type	Order No.	Price per PU			
L-units (with joint block), with engineered angle 85° ... 175° (fitted to Y as standard)							
Knee, rear 	X0.36/ Y0.36	BD2C-400-LH-G*	BVP:261950	1	1 unit	165	14.700
	X0.36 ... 1.25/ Y0.36	BD2C-400-LH-X*-G*	BVP:261951	1	1 unit	165	31.500
	X0.36/ Y0.36 ... 1.25	BD2C-400-LH-Y*-G*	BVP:261952	1	1 unit	165	31.500
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2C-400-LH-X*/Y*-G*	BVP:261953	1	1 unit	165	48.200
Knee, front 	X0.36/ Y0.36	BD2C-400-LV-G*	BVP:261954	1	1 unit	165	14.700
	X0.36 ... 1.25/ Y0.36	BD2C-400-LV-X*-G*	BVP:261955	1	1 unit	165	31.500
	X0.36/ Y0.36 ... 1.25	BD2C-400-LV-Y*-G*	BVP:261956	1	1 unit	165	31.500
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2C-400-LV-X*/Y*-G*	BVP:261957	1	1 unit	165	48.200
Elbow, right 	X0.36/ Y0.36	BD2C-400-LR-G*	BVP:261958	1	1 unit	165	13.300
	X0.36 ... 1.25/ Y0.36	BD2C-400-LR-X*-G*	BVP:261959	1	1 unit	165	30.100
	X0.36/ Y0.36 ... 1.25	BD2C-400-LR-Y*-G*	BVP:261960	1	1 unit	165	30.100
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2C-400-LR-X*/Y*-G*	BVP:261961	1	1 unit	165	46.600
Elbow, left 	X0.36/ Y0.36	BD2C-400-LL-G*	BVP:261962	1	1 unit	165	13.300
	X0.36 ... 1.25/ Y0.36	BD2C-400-LL-X*-G*	BVP:261963	1	1 unit	165	30.100
	X0.36/ Y0.36 ... 1.25	BD2C-400-LL-Y*-G*	BVP:261964	1	1 unit	165	30.100
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2C-400-LL-X*/Y*-G*	BVP:261965	1	1 unit	165	46.600

Elbow: For G* you must specify the required number of degrees in 5° increments.

Optional lengths: For X* and Y* you must specify the required dimension in meters from the center of the joint block to the outside edge of the trunking unit (see also Catalog LV 70).

Special colors available on request.

Version	DT	Type suffix	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Fire barrier for L-units (optional)								
Fire barrier S120 in limb X		+BD2-S120-BX*-M*	BVP:931959		1	1 unit	165	1.500
Fire barrier S120 in limb Y		+BD2-S120-BY*-M*	BVP:931960		1	1 unit	165	1.500

For BX* or BY you must specify the required dimension in meters from the center of the joint block (for BX*: end without joint block) to the center of the fire wall or fire ceiling, for -M* specify the wall or ceiling thickness.

For the configuration of the fire barrier, see Catalog LV 70.

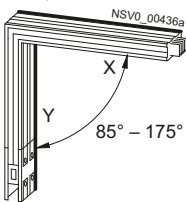
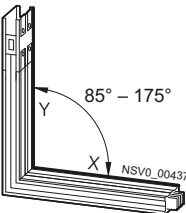
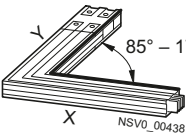
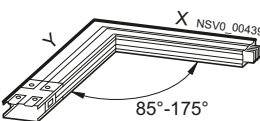
For approval in Germany:
BD2-S90(S120)-ZUL-D fire barrier approval kit
see page 15/72.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Junction units

With copper busbars

Version	Length/ Optional length	DT	Rated current I_n 630 A, 800 A, 1000 A, 1250 A			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
			Type	Order No.	Price per PU				
L-units (with joint block), with engineered angle 85° ... 175° (fitted to Y as standard)									
	X0.36/ Y0.36	BD2C-1250-LH-G*	BVP:261922	1	1 unit	165	31.900		
	X0.36 ... 1.25/ Y0.36	BD2C-1250-LH-X*-G*	BVP:261923	1	1 unit	165	72.300		
	X0.36/ Y0.36 ... 1.25	BD2C-1250-LH-Y*-G*	BVP:261924	1	1 unit	165	72.300		
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2C-1250-LH-X*/Y*-G*	BVP:261925	1	1 unit	165	112.800		
	X0.36/ Y0.36	BD2C-1250-LV-G*	BVP:261926	1	1 unit	165	31.900		
	X0.36 ... 1.25/ Y0.36	BD2C-1250-LV-X*-G*	BVP:261927	1	1 unit	165	72.300		
	X0.36/ Y0.36 ... 1.25	BD2C-1250-LV-Y*-G*	BVP:261928	1	1 unit	165	72.300		
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2C-1250-LV-X*/Y*-G*	BVP:261929	1	1 unit	165	112.800		
	X0.36/ Y0.36	BD2C-1250-LR-G*	BVP:261930	1	1 unit	165	29.500		
	X0.36 ... 1.25/ Y0.36	BD2C-1250-LR-X*-G*	BVP:261931	1	1 unit	165	70.000		
	X0.36/ Y0.36 ... 1.25	BD2C-1250-LR-Y*-G*	BVP:261932	1	1 unit	165	70.000		
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2C-1250-LR-X*/Y*-G*	BVP:261933	1	1 unit	165	110.500		
	X0.36/ Y0.36	BD2C-1250-LL-G*	BVP:261934	1	1 unit	165	29.500		
	X0.36 ... 1.25/ Y0.36	BD2C-1250-LL-X*-G*	BVP:261935	1	1 unit	165	70.000		
	X0.36/ Y0.36 ... 1.25	BD2C-1250-LL-Y*-G*	BVP:261936	1	1 unit	165	70.000		
	X0.36 ... 1.25/ Y0.36 ... 1.25	BD2C-1250-LL-X*/Y*-G*	BVP:261937	1	1 unit	165	110.500		

Elbow: For G* you must specify the required number of degrees in 5° increments.

Optional lengths: For X* and Y* you must specify the required dimension in meters from the center of the joint block to the outside edge of the trunking unit (see also Catalog LV 70).

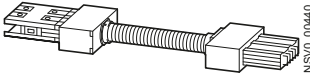
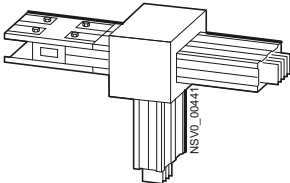
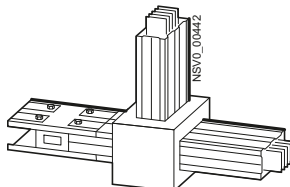
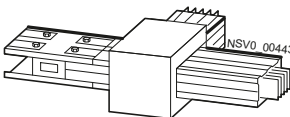
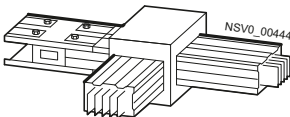
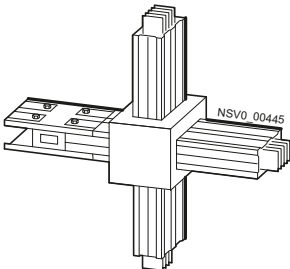
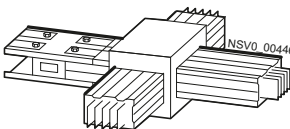
Special colors available on request.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Junction units

With copper busbars

Version	Length	DT	Rated current I_n 160 A, 250 A, 400 A			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
			Type	Order No.	Price per PU				
Flexible junction units (with joint block) ¹⁾ (fitted to Y as standard)									
	1.25		BD2-400-R	BVP:045889		1	1 unit	165	11.000
T-units (with joint block)									
Rear 	0.36		BD2C-400-TH	BVP:261889		1	1 unit	165	21.900
Front 	0.36		BD2C-400-TV	BVP:261892		1	1 unit	165	21.900
Right 	0.36		BD2C-400-TR	BVP:261891		1	1 unit	165	16.700
Left 	0.36		BD2C-400-TL	BVP:261890		1	1 unit	165	16.700
K-units (with joint block)									
Front/rear 	0.36		BD2C-400-KVH	BVP:261884		1	1 unit	165	27.100
Right/left 	0.36		BD2C-400-KRL	BVP:261883		1	1 unit	165	20.300

Special colors available on request.

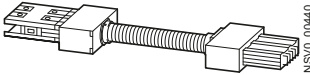
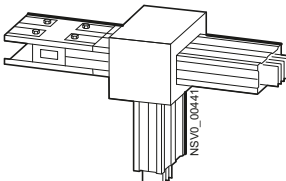
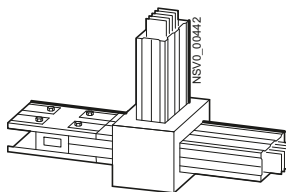
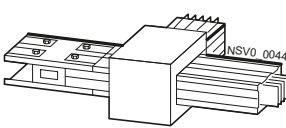
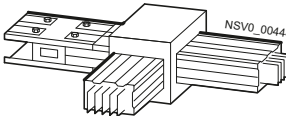
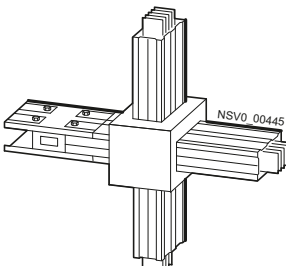
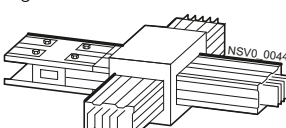
¹⁾ Upgradable to max. IP54.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Junction units

With copper busbars

Version	Length	DT	Rated current I_n 630 A, 800 A, 1000 A, 1250 A ¹⁾			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
			Type	Order No.	Price per PU				
Flexible junction units (with joint block)²⁾ (fitted to Y as standard)									
 1.75 ¹⁾			BD2-800-R	BVP:045890		1	1 unit	165	22.000
T-units (with joint block)									
Rear 	0.36		BD2C-1250-TH	BVP:261899		1	1 unit	165	49.300
Front 	0.36		BD2C-1250-TV	BVP:261902		1	1 unit	165	49.300
Right 	0.36		BD2C-1250-TR	BVP:261901		1	1 unit	165	37.700
Left 	0.36		BD2C-1250-TL	BVP:261900		1	1 unit	165	37.700
K-units (with joint block)									
Front/rear 	0.36		BD2C-1250-KVH	BVP:261894		1	1 unit	165	63.100
Right/left 	0.36		BD2C-1250-KRL	BVP:261893		1	1 unit	165	47.900

Special colors available on request.

¹⁾ BD2-800-R for use up to 800 A.

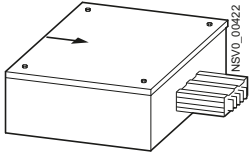
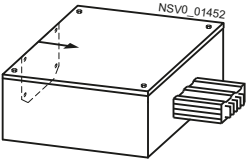
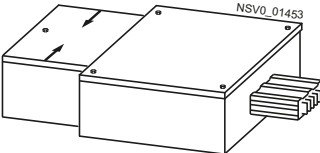
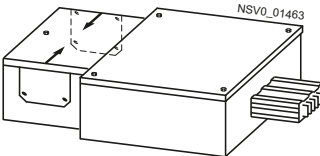
²⁾ Upgradable to max. IP54.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Feeder units

Selection and ordering data

Version	DT	Rated current I_n 160 A, 250 A			Weight per PU approx.	DT	Rated current I_n 160 A, 250 A, 400 A			Weight per PU approx.
PU = 1 PS*/P. unit = 1 unit; PG = 165		Type	Order No.	Price per PU	kg		Type	Order No.	Price per PU	kg
Feeder units										
End feeder units without joint block Bolt terminal (bolt included as stan- dard); PE position can be changed Cable entry for multi-core cables from the front 										
• Aluminum						BD2A-250-EE BVP:261993 6.600				
• Copper						BD2C-250-EE BVP:262001 8.900				
With cable entry plate¹⁾ Cable entry for single-core cables from the front 										
• Aluminum						BD2A-250-EE-EBAL BVP:611093 6.600				
• Copper						BD2C-250-EE-EBAL BVP:611094 8.900				
With cabling box Cable entry for multi-core cables from 2 sides 										
• Aluminum						--				
• Copper						--				
With cabling box and cable entry plate¹⁾ Cable entry for single-core cables from 2 sides 										
• Aluminum						--				
• Copper						--				
						BD2A-400-EE BVP:261995 13.300				
						BD2C-400-EE BVP:262003 16.300				
						BD2A-400-EE-EBAL BVP:611097 13.300				
						BD2C-400-EE-EBAL BVP:611098 16.300				
						BD2A-400-EE-KR BVP:611095 16.500				
						BD2C-400-EE-KR BVP:611096 19.500				
						BD2A-400-EE-KR-EBAL BVP:611099 16.500				
						BD2C-400-EE-KR-EBAL BVP:611100 19.500				

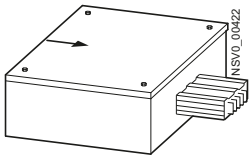
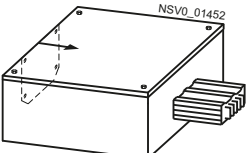
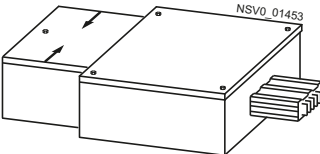
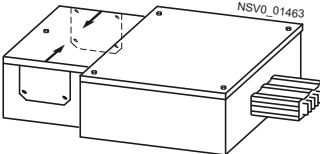
Accessories for cable entry, [see page 15/72](#).

¹⁾ Single-core cable entry plate, undrilled.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Feeder units

Version	DT	Rated current I_n 630 A, 800 A, 1000 A			Weight per PU approx.	DT	Rated current I_n 1250 A			Weight per PU approx.
PU = 1 PS*/P. unit = 1 unit; PG = 165	Type	Order No.	Price per PU	kg	Type	Order No.	Price per PU	kg		
Feeder units										
End feeder units without joint block Bolt terminal (bolt included as standard); PE position can be changed Cable entry for multi-core cables from the front										
										
- Aluminum - Copper										
BD2A-1000-EE BVP:261998 14.900						–				
BD2C-1000-EE BVP:262006 22.100						BD2C-1250-EE BVP:262009 27.100				
With cable entry plate¹⁾ Cable entry for single-core cables from the front										
										
- Aluminum - Copper										
BD2A-1000-EE-EBAL BVP:611103 14.900						–				
BD2C-1000-EE-EBAL BVP:611104 22.100						BD2C-1250-EE-EBAL BVP:611108 27.100				
With cabling box Cable entry for multi-core cables from 2 sides										
										
- Aluminum - Copper										
BD2A-1000-EE-KR BVP:611101 19.900						–				
BD2C-1000-EE-KR BVP:611102 27.100						BD2C-1250-EE-KR BVP:611107 32.100				
With cabling box and cable entry plate¹⁾ Cable entry for single-core cables from 2 sides										
										
- Aluminum - Copper										
BD2A-1000-EE-KR-EBAL BVP:611105 19.900						–				
BD2C-1000-EE-KR-EBAL BVP:611106 27.100						BD2C-1250-EE-KR-EBAL BVP:611109 32.100				

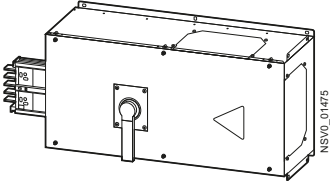
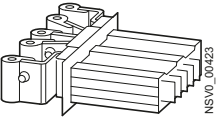
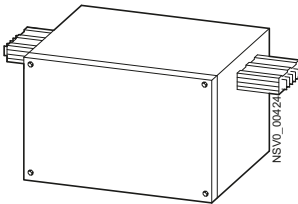
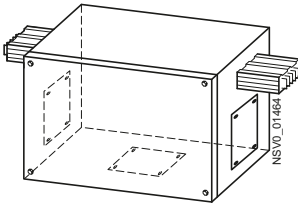
Accessories for cable entry, see page 15/72.

¹⁾ Single-core cable entry plate, undrilled.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Feeder units

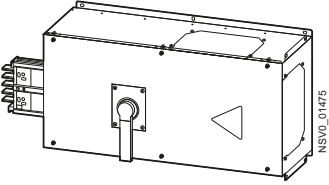
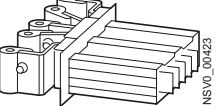
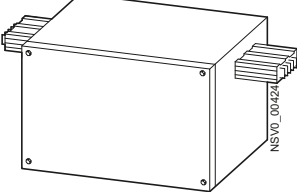
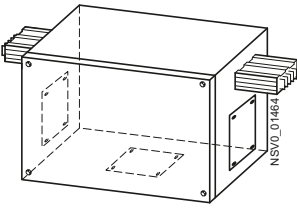
Version	DT	Rated current I_n 160 A, 250 A			Weight per PU approx.	DT	Rated current I_n 160 A, 250 A, 400 A			Weight per PU approx.
PU = 1 PS*/P. unit = 1 unit; PG = 165	Type	Order No.	Price per PU	kg	Type	Order No.	Price per PU	kg		
Feeder units										
End feeder units with 3-pole switch disconnector and with cable entry plate ¹⁾ Cable entry for single-core cables from 3 sides 										
• Copper	BD2C-250-EESC	BVP:611343		16.300	BD2C-315-EESC	BVP:611344		28.000		
• Copper					BD2C-400-EESC	BVP:611345		33.000		
Distribution board feeder units without joint block										
Bolt terminal (bolt included as stan- dard); PE position can be changed 										
• Aluminum	BD2A-250-VE	BVP:261994		2.100	BD2A-400-VE	BVP:261996		3.500		
• Copper	BD2C-250-VE	BVP:262002		4.400	BD2C-400-VE	BVP:262004		6.500		
Center feeder units without joint block										
Bolt terminal (bolt included in scope of supply); edgewise, flat and PE positions can be changed (by rotating the whole busbar section) Cable entry for multi-core cables from 3 sides 										
• Aluminum	—				BD2A-400-ME	BVP:261997		28.000		
• Copper	—				BD2C-400-ME	BVP:262005		36.600		
With cable entry plate ¹⁾										
Cable entry for single-core cables from 3 sides 										
• Aluminum	—				BD2A-400-ME-MBAL	BVP:611110		28.000		
• Copper	—				BD2C-400-ME-MBAL	BVP:611111		36.600		

Accessories for cable entry, [see page 15/72](#).¹⁾ Single-core cable entry plate, undrilled.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Feeder units

Version	DT	Rated current I_n 630 A, 800 A, 1000 A			Weight per PU approx.	DT	Rated current I_n 1250 A			Weight per PU approx.
PU = 1 PS*/P. unit = 1 unit; PG = 165		Type	Order No.	Price per PU	kg		Type	Order No.	Price per PU	kg
Feeder units										
End feeder units with 3-pole switch disconnector and with cable entry plate ¹⁾ Cable entry for single-core cables from 3 sides										
										
Copper										
		BD2C-630-EESC	BVP:611346		39.000	–				
Copper										
		BD2C-800-EESC	BVP:611347		39.000	–				
Distribution board feeder units without joint block										
Bolt terminal (bolt included as standard); PE position can be changed										
										
Aluminum										
		BD2A-1000-VE	BVP:261999		4.700	–				
Copper										
		BD2C-1000-VE	BVP:262007		11.800	BD2C-1250-VE	BVP:262010			16.300
Center feeder units without joint block										
Bolt terminal (bolt included in scope of supply); edgewise, flat and PE positions can be changed (by rotating the whole busbar section)										
Cable entry for multi-core cables from 3 sides										
										
Aluminum										
		BD2A-1000-ME	BVP:262000		47.000	–				
Copper										
		BD2C-1000-ME	BVP:262008		75.500	–				
With cable entry plate ¹⁾										
Cable entry for single-core cables from 3 sides										
										
Aluminum										
		BD2A-1000-ME-MBAL	BVP:611112		47.000	–				
Copper										
		BD2C-1000-ME-MBAL	BVP:611113		75.500	–				

Accessories for cable entry, see page 15/72.

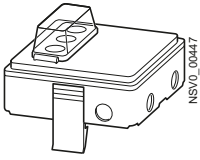
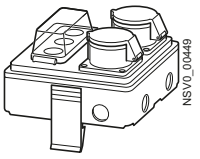
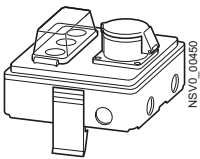
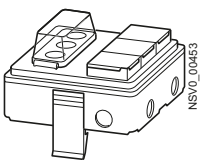
¹⁾ Single-core cable entry plate, undrilled.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Tap-off units for international use

Selection and ordering data

Version	Fuse bases	Rated current I_n	Rated operational voltage U_e	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
		A	V								
Molded-plastic enclosures, size 1, up to 25 A											
With fuse base											
Without socket outlet 	3 × D02	25	400		BD2-AK1/S18	BVP:047112		1	1 unit	165	1.150
	3 × D01	16	400		BD2-AK1/S14	BVP:047113		1	1 unit	165	1.100
With 2 CEE socket outlets, 3-pole, 16 A 	2 × D01	16	230		BD2-AK1/ 2CEE163S14	BVP:047167		1	1 unit	165	1.200
With 1 CEE socket outlet, 5-pole, 16 A 	3 × D01	16	400		BD2-AK1/ CEE165S14	BVP:047230		1	1 unit	165	1.200
with 3 SCHUKO socket outlets 16 A 	3 × D01	16	230		BD2-AK1/ 3SD163S14	BVP:047284		1	1 unit	165	1.400

M25 cable grommet included in scope of supply.

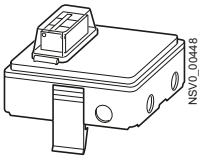
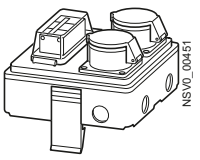
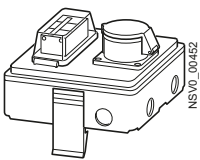
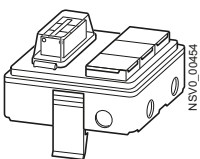
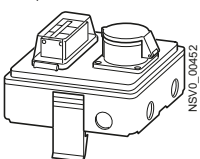
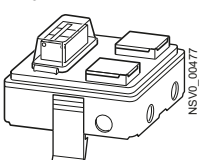
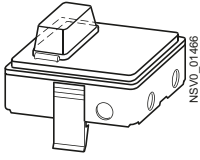
Screw adapters, fuse links and screw caps are not included in scope of supply.

Use plastic cable glands with strain relief (not included in scope of supply).

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Tap-off units for international use

Version	Miniature circuit breakers (MCBs)	Rated current I_n A	Rated operational voltage U_e V	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Molded-plastic enclosures, size 1, up to 25 A											
With miniature circuit breaker											
• Without socket outlet	3-pole, 16 A, characteristic C	16	400		BD2-AK1/A163	BVP:047146		1	1 unit	165	1.400
											
• With 2 CEE socket outlets, 3-pole, 16 A	2 × 1-pole, 16 A, characteristic B	16	230		BD2-AK1/2CEE163A161	BVP:047231		1	1 unit	165	1.400
											
• With 1 CEE socket outlet, 5-pole, 16 A	3-pole, 16 A, characteristic C	16	400		BD2-AK1/CEE165A163	BVP:047283		1	1 unit	165	1.500
											
• with 3 SCHUKO socket outlets 16 A	3 × 1-pole, 16 A, characteristic B	16	230		BD2-AK1/3SD163A161	BVP:047335		1	1 unit	165	1.300
											
• With 1 CEE socket outlet, 3-pole, 16 A	1-pole, 16 A, characteristic C Residual current-operated circuit breaker 2-pole, 25 A/ 30 mA	16	230		BD2-AK1/CEE163FIA161	BVP:660869		1	1 unit	165	1.500
											
• with 2 SCHUKO socket outlets 16 A	1-pole, 16 A, characteristic B Residual current-operated circuit breaker 2-pole, 25 A/ 30 mA	16	230		BD2-AK1/2SD163FIA161	BVP:660870		1	1 unit	165	1.300
											
Freely assignable (P_V max 13 W)											
• Without socket outlet, with integrated standard mounting rail	Mounting space for 4 modular widths (MW)	25	400		BD2-AK1/F	BVP:203247		1	1 unit	165	0.700
											

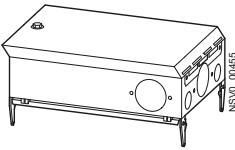
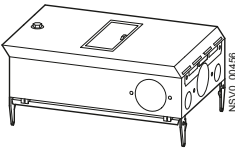
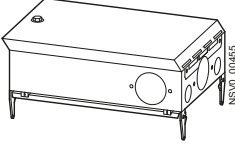
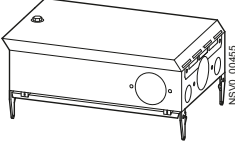
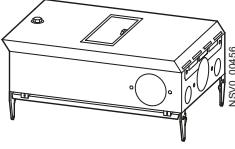
M25 cable grommet included in scope of supply.

Use plastic cable glands with strain relief (not included in scope of supply).

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Tap-off units for international use

Version	Fuse base/ miniature circuit breaker	Rated current I_n	Rated operational voltage U_e	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Sheet-steel enclosures, size 02, up to 63 A											
With fuse base											
	3-pole fuse base D02	63	400		BD2-AK02X/S18	BVP:262438		1	1 unit	165	4.140
	3-pole fuse base S27, with gauge screw system	25	500		BD2-AK02X/S27	BVP:262439		1	1 unit	165	3.940
	3-pole fuse base S33, with gauge screw system	63	500		BD2-AK02X/S33	BVP:262450		1	1 unit	165	4.200
	3-pole fuse base SP38 for cylindrical fuses 10 mm × 38 mm	25	400		BD2-AK02X/F1038-3	BVP:262469		1	1 unit	165	5.500
	4-pole fuse base SP38 for cylindrical fuses 10 mm × 38 mm	25	400		BD2-AK02X/F1038-3N	BVP:262470		1	1 unit	165	5.500
	3-pole fuse base SP51 for cylindrical fuses 14 mm × 51 mm	32	400		BD2-AK02X/F1451-3	BVP:262471		1	1 unit	165	5.500
	4-pole fuse base SP51 for cylindrical fuses 14 mm × 51 mm	32	400		BD2-AK02X/F1451-3N	BVP:262472		1	1 unit	165	5.500
	3-pole fuse base SP58 for cylindrical fuses 22 mm × 58 mm	63	400		BD2-AK02X/F2258-3	BVP:262473		1	1 unit	165	5.700
	4-pole fuse base SP58 for cylindrical fuses 22 mm × 58 mm	63	400		BD2-AK02X/F2258-3N	BVP:262474		1	1 unit	165	5.700
	With miniature circuit breaker										
	3-pole, 32 A, characteristic C	32	400		BD2-AK02M2/A323	BVP:262451		1	1 unit	165	4.380
	3-pole + N, 32 A, characteristic C	32	400		BD2-AK02M2/A323N	BVP:262452		1	1 unit	165	4.800
	3-pole, 63 A, characteristic C	63	400		BD2-AK02M2/A633	BVP:262453		1	1 unit	165	5.100
	3-pole + N, 63 A, characteristic C	63	400		BD2-AK02M2/A633N	BVP:262454		1	1 unit	165	5.200
Freely assignable (P_V max 22.5 W)											
• With integrated standard mounting rail	Mounting space for 8 modular widths (MW)	63	690		BD2-AK02X/F	BVP:262457		1	1 unit	165	3.800
											
• With device installation unit, 8 MW	Mounting space for 8 modular widths (MW)	63	690		BD2-AK02M2/F	BVP:262458		1	1 unit	165	3.900
											

Special colors available on request.

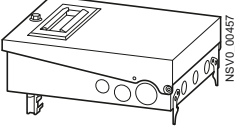
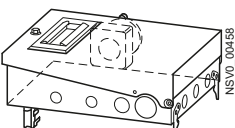
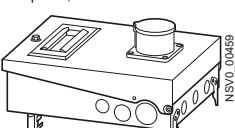
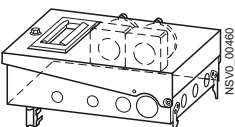
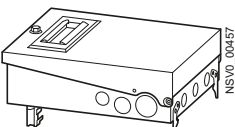
Screw adapters, fuse links and screw caps are not included in scope of supply.

Use plastic cable glands with strain relief (not included in scope of supply).

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Tap-off units for international use

Version	Fuse bases	Rated current I_n	Rated operational voltage U_e	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Sheet-steel enclosures, size 2, up to 63 A, with cover-integrated switch-disconnector											
With fuse base											
• Without socket outlet	3-pole fuse base D02	63	400		BD2-AK2X/S18	BVP:203135		1	1 unit	165	4.140
	3-pole fuse base S27, with gauge screw system	25	500		BD2-AK2X/S27	BVP:203136		1	1 unit	165	3.940
	3-pole fuse base S33, with gauge screw system	63	500		BD2-AK2X/S33	BVP:203138		1	1 unit	165	4.200
• With 1 CEE socket outlet, 5-pole, 32 A	3-pole fuse base S33, with gauge screw system	32	400		BD2-AK2X/CEE325S33	BVP:203142		1	1 unit	165	5.100
											
• with 1 CEE socket outlet, 5-pole, 63 A	3-pole fuse base S33, with gauge screw system	63	400		BD2-AK2X/CEE635S33	BVP:203146		1	1 unit	165	5.680
											
With 2 CEE socket outlets, 5-pole, 16 A	2 × 3-pole fuse base D01	16	400		BD2-AK2X/2CEE165S14	BVP:203148		1	1 unit	165	4.800
	2 × 3-pole fuse base S27, with gauge screw system	16	400		BD2-AK2X/2CEE165S27/FOR MP	BVP:203149		1	1 unit	165	4.900
Freely assignable (P_y max 22.5 W)											
• Without socket outlet, with integrated standard mounting rail	Mounting space for 8 modular widths (MW)	63	690		BD2-AK2X/F	BVP:203251		1	1 unit	165	3.800
											

Special colors available on request.

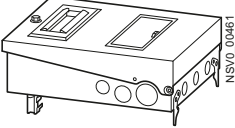
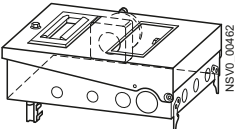
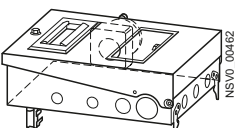
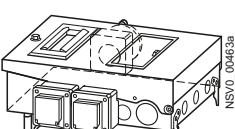
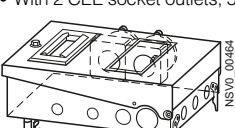
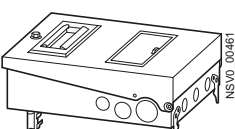
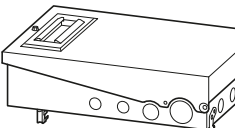
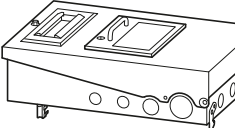
Screw adapters, fuse links and screw caps are not included in scope of supply.

Use plastic cable glands with strain relief (not included in scope of supply).

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Tap-off units for international use

Version	Miniature circuit breaker / fuse base / switch-disconnector	Rated current I_n A	Rated operational voltage U_e V	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx. kg
Sheet-steel enclosures, size 2, up to 63 A, with cover-integrated switch-disconnector											
With miniature circuit breaker											
• Without socket outlet	3-pole, 32 A, characteristic C	32	400		BD2-AK2M2/A323	BVP:203144		1	1 unit	165	4.380
											
• With 1 CEE socket outlet, 5-pole, 16 A	3-pole, 16 A, characteristic C Residual current-operated circuit breaker 4-pole, 25 A/ 30 mA	16	400		BD2-AK2M2/CEE165FIA163	BVP:660868		1	1 unit	165	6.100
											
• With 1 CEE socket outlet, 5-pole, 32 A	3-pole, 32 A, characteristic C	32	400		BD2-AK2M2/CEE325A323	BVP:207986		1	1 unit	165	4.900
											
• With 1 CEE socket outlet, 5-pole, 16 A and 2 Schuko socket outlets 16 A	3-pole, 16 A, characteristic B and 2 × 1-pole, 16 A, characteristic B	16	230		BD2-AK2M2/2SD163CEE165A163	BVP:203150		1	1 unit	165	5.600
											
• With 2 CEE socket outlets, 5-pole, 16 A	2 × 3-pole, 16 A, characteristic C	16	400		BD2-AK2M2/2CEE165A163	BVP:203151		1	1 unit	165	5.400
											
Freely assignable (P_V max 22.5 W)											
• Without socket outlet, with device installation unit	Mounting space for 8 modular widths (MW)	63	690		BD2-AK2M2/F	BVP:203252		1	1 unit	165	3.900
											
Sheet-steel enclosures, size 3, up to 125 A, with cover-integrated switch-disconnector											
With fuse base											
	Low-voltage LV HRC fuse base, size 00; bolt terminal	125	690		BD2-AK3X/GS00	BVP:203162		1	1 unit	165	5.400
											
With fuse switch disconnector											
	LV HRC fuse switch disconnector, size 00; bolt terminal	125	690		BD2-AK3X/GSTZ00	BVP:203163		1	1 unit	165	6.960
											

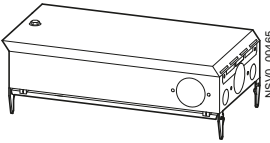
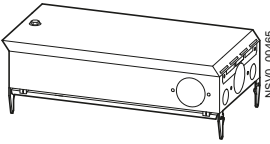
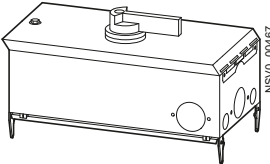
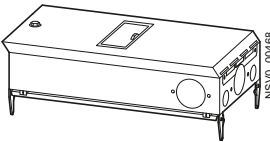
Special colors available on request.

Use plastic cable glands with strain relief (not included in scope of supply).

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Tap-off units for international use

Version	Protection equipment	Rated current I_n A	Rated operational voltage U_e V	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Sheet-steel enclosures, size 03, up to 125 A											
With fuse base 	Bolt terminal										
	3-pole fuse base SP58 for cylindrical fuses 22 mm × 58 mm	125	690		BD2-AK03X/F2258-3	BVP:262497		1	1 unit	165	7.500
	4-pole fuse base SP58 for cylindrical fuses 22 mm × 58 mm	125	690		BD2-AK03X/F2258-3N	BVP:262498		1	1 unit	165	7.500
With fuse switch disconnecter 	LV HRC fuse switch disconnecter, size 00; bolt terminal	125	690		BD2-AK03X/GSTA00	BVP:262496		1	1 unit	165	6.960
With fuse switch disconnecter 	Bolt terminal										
	3-pole, IEC	125	400		BD2-AK03X/FS125IEC-3	BVP:262499		1	1 unit	165	7.940
	3-pole, BS	125	400		BD2-AK03X/FS125BS-3	BVP:262500		1	1 unit	165	7.940
	4-pole, IEC	125	400		BD2-AK03X/FS125IEC-4	BVP:262501		1	1 unit	165	8.280
	4-pole, BS	125	400		BD2-AK03X/FS125BS-4	BVP:262502		1	1 unit	165	8.280
With miniature circuit breaker 	3-pole, 125 A, characteristic C	125	400		BD2-AK03M2/A1253	BVP:262485		1	1 unit	165	5.800
	3-pole + N, 125 A, characteristic C	125	400		BD2-AK03M2/A1253N	BVP:262486		1	1 unit	165	6.000

Special colors available on request.

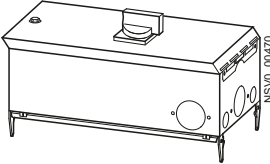
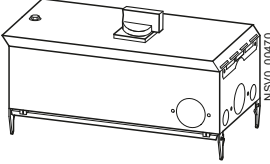
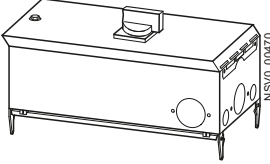
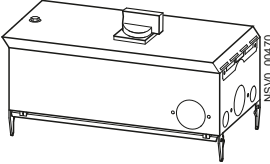
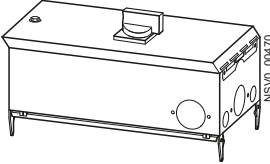
Fuse links are not included in scope of supply.

Use plastic cable glands with strain relief (not included in scope of supply).

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Tap-off units for international use

Version	Circuit breaker/ setting range	Rated current I_n	Rated operational voltage U_e	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	A	A	V								
Sheet-steel enclosures, size 03, up to 125 A											
With circuit breaker, normal breaking capacity, with rotary operating mecha- nism, terminal connection											
	• With thermal-magnetic trip unit	3-pole									
		3VL27 05	40	400		BD2-AK03X/ LSD-DC40-N	BVP:610402	1	1 unit	165	8.500
		40 ... 50									
		3VL27 06	63	400		BD2-AK03X/ LSD-DC63-N	BVP:610403	1	1 unit	165	8.500
		50 ... 63									
		3VL27 08	80	400		BD2-AK03X/ LSD-DC80-N	BVP:610404	1	1 unit	165	8.500
		63 ... 80									
		3VL27 10	100	400		BD2-AK03X/ LSD-DC100-N	BVP:610405	1	1 unit	165	8.500
		80 ... 100									
		3VL27 12	125	400		BD2-AK03X/ LSD-DC125-N	BVP:610406	1	1 unit	165	8.500
		100 ... 125									
	• With solid-state trip unit, selective	3-pole									
		3VL27 06	63	400		BD2-AK03X/ LSD-AE63-N	BVP:610407	1	1 unit	165	8.500
		25 ... 63									
		3VL27 10	100	400		BD2-AK03X/ LSD-AE100-N	BVP:610408	1	1 unit	165	8.500
		40 ... 100									
	• With thermal-magnetic trip unit, selective (N release 100 %)	4-pole									
		3VL27 05	40	400		BD2-AK03X/ LSD-EM40-N	BVP:610397	1	1 unit	165	9.000
		40 ... 50									
		3VL27 06	63	400		BD2-AK03X/ LSD-EM63-N	BVP:610398	1	1 unit	165	9.000
		50 ... 63									
		3VL27 08	80	400		BD2-AK03X/ LSD-EM80-N	BVP:610399	1	1 unit	165	9.000
		63 ... 80									
		3VL27 10	100	400		BD2-AK03X/ LSD-EM100-N	BVP:610400	1	1 unit	165	9.000
		80 ... 100									
		3VL27 12	125	400		BD2-AK03X/ LSD-EM125-N	BVP:610401	1	1 unit	165	9.000
		100 ... 125									

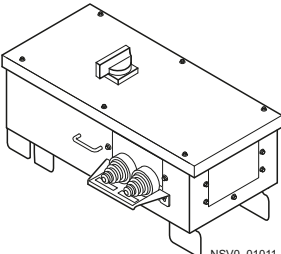
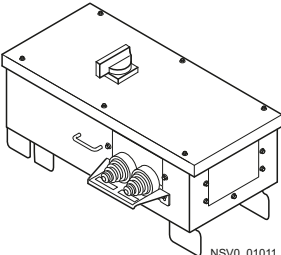
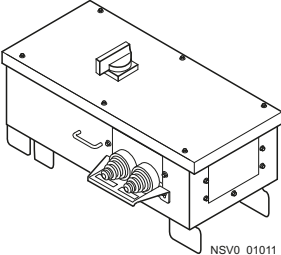
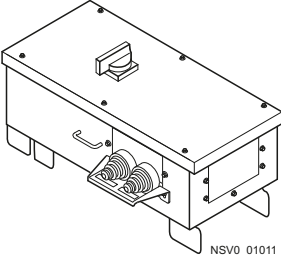
Special colors available on request.

Use plastic cable glands with strain relief (not included in scope of supply).

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Tap-off units for international use

Version	Circuit breaker/ setting range	Rated current I_n	Rated operational voltage U_e	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	A	A	V								
Sheet-steel enclosures, size 04, 05 and 06, up to 530 A											
With circuit breaker, normal breaking capacity, with rotary operating mechanism, bolt terminals											
 NSV0_01011	• With thermal-magnetic trip unit	3-pole									
		3VL27 16	160	400		BD2-AK04/ LSD-DC160-N	BVP:610424	1	1 unit	165	30.000
		125 ... 160									
		3VL37 20	200	400		BD2-AK04/ LSD-DC200-N	BVP:610430	1	1 unit	165	30.000
		160 ... 200									
		3VL37 25	250	400		BD2-AK04/ LSD-DC250-N	BVP:610436	1	1 unit	165	30.000
		200 ... 250									
		3VL47 40	400	400		BD2-AK05/ LSD-DC400-N	BVP:610442	1	1 unit	165	35.000
 NSV0_01011	• With solid-state trip unit, selective	3-pole									
		3VL27 16	160	400		BD2-AK04/ LSD-AE160-N	BVP:610428	1	1 unit	165	30.000
		64 ... 160									
		3VL37 20	200	400		BD2-AK04/ LSD-AE200-N	BVP:610434	1	1 unit	165	30.000
		80 ... 200									
		3VL37 25	250	400		BD2-AK04/ LSD-AE250-N	BVP:610440	1	1 unit	165	30.000
		100 ... 250									
		3VL47 40	400	400		BD2-AK05/ LSD-AE400-N	BVP:610446	1	1 unit	165	35.000
 NSV0_01011	• With thermal-magnetic trip unit, selective (N release 60 %)	4-pole									
		3VL27 16	160	400		BD2-AK04/ LSD-EC160-N	BVP:610426	1	1 unit	165	30.000
		125 ... 160									
		3VL37 20	200	400		BD2-AK04/ LSD-EC200-N	BVP:610432	1	1 unit	165	30.000
		160 ... 200									
		3VL37 25	250	400		BD2-AK04/ LSD-EC250-N	BVP:610438	1	1 unit	165	30.000
		200 ... 250									
		3VL47 40	400	400		BD2-AK05/ LSD-EC400-N	BVP:610444	1	1 unit	165	35.000
 NSV0_01011		320 ... 400									
		3VL57 63	530	400		BD2-AK06/ LSD-EC630-N	BVP:610450	1	1 unit	165	40.000
		500 ... 530									

Special colors available on request.

Use plastic cable glands with strain relief (not included in scope of supply).

For BD2-AK04, -AK05 and -AK06, the KT3 or KT4 cable grommet is included in scope of supply.

The tap-off units, size 05 and 06, are suitable only for systems 630 A to 1250 A.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Tap-off units for international use

Version	Fuse base/ fuse switch disconnecter	Rated current I_n	Rated operational voltage U_e	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
		A	V								kg
Sheet-steel enclosures, size 04, 05 and 06, up to 530 A											
With fuse base, 3-pole, bolt terminal	NH1	250	690		BD2-AK04/SNH1	BVP:610421		1	1 unit	165	30.000
	NH2	400	690		BD2-AK05/SNH2	BVP:610422		1	1 unit	165	35.000
	NH3	530	690		BD2-AK06/SNH3	BVP:610423		1	1 unit	165	40.000
Sheet-steel enclosures, size 04 and 05, up to 320 A											
With fuse switch disconnecter, bolt terminal											
	• 3-pole										
	NH1, IEC	225	400		BD2-AK04/ FS250IEC-3	BVP:610409		1	1 unit	165	30.000
	NH1, BS	225	400		BD2-AK04/ FS250BS-3	BVP:610411		1	1 unit	165	30.000
• 4-pole	NH2, IEC	320	400		BD2-AK05/ FS400IEC-3	BVP:610413		1	1 unit	165	35.000
	NH2, BS	320	400		BD2-AK05/ FS400BS-3	BVP:610415		1	1 unit	165	35.000
• 4-pole	NH1, IEC	225	400		BD2-AK04/ FS250IEC-4	BVP:610410		1	1 unit	165	30.000
	NH1, BS	225	400		BD2-AK04/ FS250BS-4	BVP:610412		1	1 unit	165	30.000
	NH2, IEC	320	400		BD2-AK05/ FS400IEC-4	BVP:610414		1	1 unit	165	35.000
	NH2, BS	320	400		BD2-AK05/ FS400BS-4	BVP:610416		1	1 unit	165	35.000

Special colors available on request.

Fuse links are not included in scope of supply.

Use plastic cable glands with strain relief (not included in scope of supply).

For BD2-AK04, -AK05 and -AK06, the KT3 or KT4 cable grommet is included in scope of supply.

The tap-off units, size 05 and 06, are suitable only for systems 630 A to 1250 A.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Ancillary equipment units for international use

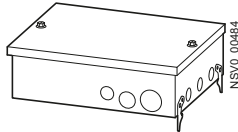
Selection and ordering data

Version	Can be used for	Max. power loss P_v	Rated operational voltage U_e	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
		W	V								kg

Sheet-steel enclosures

Ancillary equipment units, freely assignable

Built-in standard
mounting rail
for 8 MW
(MW = modular width)



- Overvoltage protection
- Remote control/remote switching
- Intelligence
- Fuse bases
- Miniature circuit breakers (MCBs)

30 400

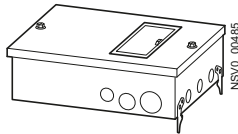
BD2-GKX/F BVP:203165

1 1 unit 165 2.800

Sheet-steel enclosures with device installation unit

Ancillary equipment units, freely assignable

Built-in standard
mounting rail
for 8 MW
(MW = modular width)



- Remote control/remote switching
- Intelligence
- Miniature circuit breakers (MCBs)
- Energy counters

30 400

BD2-GKM2/F BVP:203166

1 1 unit 165 2.500

Ancillary equipment units are used in combination with tap-off units AK02, AK2, AK03 or AK3.

Special colors available on request.

Including sundries for connecting the enclosures.

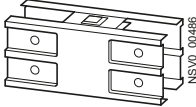
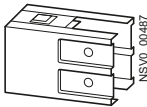
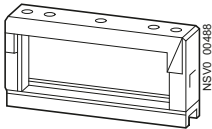
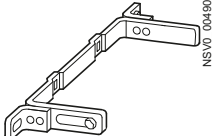
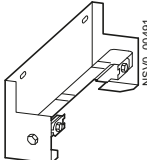
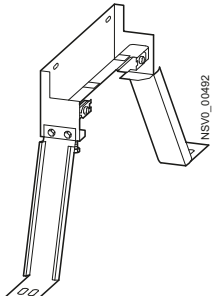
Use plastic cable glands with strain relief (not included in scope of supply).

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Accessories

Selection and ordering data

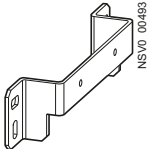
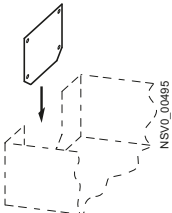
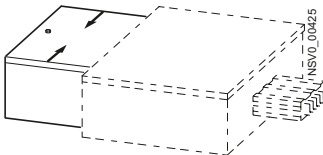
Version	DT	Rated current I_n 160 A, 250 A, 400 A			Weight per PU approx. kg	DT	Rated current I_n 630 A, 800 A, 1000 A, 1250 A			Weight per PU approx. kg
PU = 1 PS*/P. unit = 1 unit; PG = 165	Type	Order No.	Price per PU			Type	Order No.	Price per PU		
Fixing										
Joint blocks 	BD2-400-SK	BVP:203516		3.500		BD2-1250-EK	BVP:261989		6.480	
End flanges 	BD2-400-FE	BVP:043977		0.980		BD2-1250-FE	BVP:261990		1.280	
Fixing brackets for flat and edgewise installation 	BD2-400-BB	BVP:045154		0.440		BD2-1250-BB	BVP:261987		0.540	
Spacers for 40 mm spacing, suitable for use with fixing bracket 	BD2-DSB	BVP:203532		0.030		BD2-DSB	BVP:203532		0.030	
Spacer brackets for wall and ceiling mounting, for use with fixing bracket 	BD2-BD	BVP:034228		0.440		BD2-BD	BVP:034228		0.440	
Retaining elements for vertical busbar lines • Wall mounting, distance from wall adjustable 	BD2-BWV	BVP:045503		1.560		BD2-BWV	BVP:045503		1.560	
• Ceiling mounting 	BD2-BDV	BVP:045504		4.500		BD2-BDV	BVP:045504		4.500	
Fixing for mounting rail e.g. Unistrut P1000 	BD2-BVC	BVP:611348		0.500		BD2-BVC	BVP:611348		0.500	

* You can order this quantity or a multiple thereof.

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Accessories

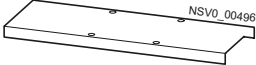
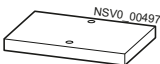
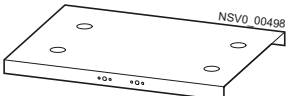
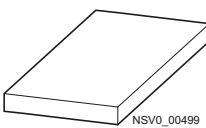
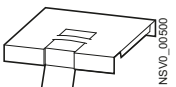
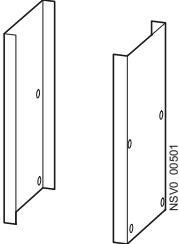
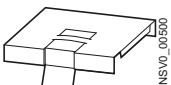
Version	DT	Rated current I_n 160 A, 250 A, 400 A			Weight per PU approx.	DT	Rated current I_n 630 A, 800 A, 1000 A, 1250 A			Weight per PU approx.
PU = 1 PS*/P. unit = 1 unit; PG = 165		Type	Order No.	Price per PU	kg		Type	Order No.	Price per PU	kg
Fixing										
Fixing bracket for vertical wall mounting on a connecting flange 		BD2-BVF	BVP:203531		0.500		BD2-BVF	BVP:203531		0.500
Protection sleeves										
		BD2-400-D	BVP:045505		4.000		BD2-1250-D	BVP:261988		4.000
Cable entry										
Cable entry plates for single-core cable entry, undrilled (drilling template included in scope of supply) 										
• Suitable for end feeder unit 250 A		BD2-250-EBAL	BVP:203530		0.300		--			
• For use with end feeder units or cabling boxes - Up to 400 A or 1000 A - For 1250 A		BD2-400-EBAL --	BVP:045507		0.500		BD2-1000-EBAL BD2-1250-EBAL	BVP:261976 BVP:261982		1.000 2.660
• For use with center feeder units - Up to 400 A or 1000 A		BD2-400-MBAL	BVP:045509		0.500		BD2-1000-MBAL	BVP:261980		1.000
Cabling boxes, cable entry for multi-core cables from 2 sides, for use with feeder units 										
• Up to 400 A or 1000 A		BD2-400-KR	BVP:045511		3.100		BD2-1000-KR	BVP:261978		5.000
• For 1250 A		--					BD2-1250-KR	BVP:261984		5.000

Version	DT	Rated current I_n 160 ... 1250 A			PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
		Type	Order No.	Price per PU				kg
Fire barrier								
Fire barrier approval kits (required only for Germany)								
• S90								
		BD2-S90-ZUL-D	BVP:611397		1	1 unit	165	0.200
• S120								
		BD2-S120-ZUL-D	BVP:611398		1	1 unit	165	0.200

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

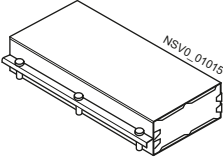
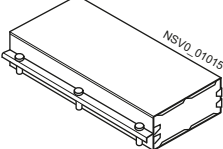
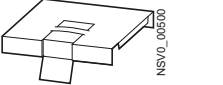
Accessories

Version	DT	Rated current I_n 160 A, 250 A, 400 A			Weight per PU approx.	DT	Rated current I_n 630 A, 800 A, 1000 A, 1250 A			Weight per PU approx.
PU = 1 PS*/P. unit = 1 unit; PG = 165		Type	Order No.	Price per PU	kg		Type	Order No.	Price per PU	kg
Flanges for degree of protection IP54										
Edgewise mounting position										
• At all connection points		BD2-400-HF	BVP:045513		0.300	BD2-1250-HF	BVP:261991			0.520
										
• At end flanges		BD2-400-HFE	BVP:045515		0.180	BD2-1250-HFE	BVP:261992			0.260
										
Flat mounting position										
• At all connection points		BD2-FF	BVP:045517		0.600	BD2-FF	BVP:045517			0.600
										
• At end flanges		BD2-FFE	BVP:045518		0.320	BD2-FFE	BVP:045518			0.320
										
• At top tap-off points		BD2-FAS	BVP:045519		0.220	BD2-FAS	BVP:045519			0.220
										
Vertical mounting position										
• At all connection points		BD2-400-VF	BVP:045520		0.200	BD2-1250-VF	BVP:262125			0.500
										
• At all tap-off points		BD2-FAS	BVP:045519		0.220	BD2-FAS	BVP:045519			0.220
										

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Accessories

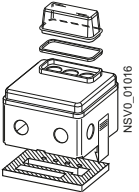
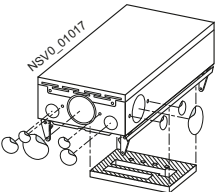
Version	DT	Rated current I_n 160 A, 250 A, 400 A			Weight per PU approx.	DT	Rated current I_n 630 A, 800 A, 1000 A, 1250 A			Weight per PU approx.
PU = 1 PS*/P. unit = 1 unit; PG = 165		Type	Order No.	Price per PU	kg		Type	Order No.	Price per PU	kg
Flanges for degree of protection IP55										
Flanges for IP55¹⁾										
• At all connection points		BD2-400-FS	BVP:610369		1.700		BD2-1250-FS	BVP:610370		2.100
										
• At end flanges		BD2-400-FSE	BVP:610371		1.900		BD2-1250-FSE	BVP:610372		2.600
										
• At tap-off points		BD2-FAS	BVP:045519		0.220		BD2-FAS	BVP:045519		0.220
										

¹⁾ Not for use with BD2- ... -R.

Version	For tap-off unit	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
	Type								kg

Accessories for degree of protection IP55

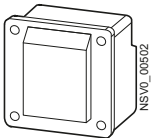
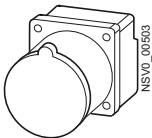
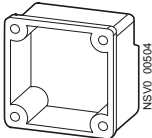
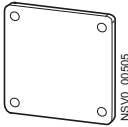
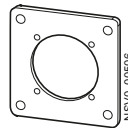
Seals for tap-off units

	BD2-AK1/...	BD2-AK1-IP55	BVP:610373	1	1 unit	165	0.030
	BD2-AK02X/...	BD2-AK02X-IP55	BVP:610374	1	1 unit	165	0.040
	BD2-AK03X/...	BD2-AK03X-IP55	BVP:610375	1	1 unit	165	0.040
	BD2-AK2X/...	BD2-AK2X-IP55	BVP:611061	1	1 unit	165	0.070
	BD2-AK3X/...	BD2-AK3X-IP55	BVP:611062	1	1 unit	165	0.070
	BD2-AK04/...	BD2-AK04-IP55	BVP:611063	1	1 unit	165	0.050
	BD2-AK05/...	BD2-AK05-IP55	BVP:611064	1	1 unit	165	0.070
	BD2-AK06/...	BD2-AK06-IP55	BVP:611065	1	1 unit	165	0.070

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Accessories

Version	Socket outlets	DT	Type	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Socket outlets for tap-off units and ancillary equipment units									
Socket outlets with adapter enclosure, with wiring, with fixing kit									
Schuko socket outlet			16 A, 3-pole	BD2-SD163	BVP:203253	1	1 unit	165	0.280
									
CEE socket outlet			16 A, 3-pole	BD2-CEE163	BVP:203254	1	1 unit	165	0.260
			16 A, 5-pole	BD2-CEE165	BVP:203255	1	1 unit	165	0.310
			32 A, 5-pole	BD2-CEE325	BVP:203256	1	1 unit	165	0.350
									
Adapter enclosures for socket outlets with fixing kit									
									
Adapter plates for use with adapter enclosure									
For customized socket outlet cutouts				BD2-APO	BVP:203258	1	1 unit	165	0.090
									
With socket outlet cutout, diameter 44 mm				BD2-APM	BVP:203259	1	1 unit	165	0.060
									

Busbar Trunking Systems

BD2 System – 160 ... 1250 A

Notes

System Cubicles, System Lighting and System Air-Conditioning

16



SIVACON sicube 8MF system cubicles

- 16/2 Introduction
- 16/3 8MF system cubicles
- 16/4 Preconfigured cubicles

16/6 8MF/8MR system lighting

8MR system air-conditioning

- 16/8 Introduction
- 16/10 Filter fans
- 16/13 Air conditioners/cooling devices
- 16/14 Heat exchangers
- 16/15 Heater units
- 16/16 Fan heaters
- 16/18 Thermostats, hygrostats,
hygrotherms, switching modules

Additional information in
Catalog LV 50.

More technical product information:

Service&Support portal:
[www.siemens.com/lowvoltage/
technical-support](http://www.siemens.com/lowvoltage/technical-support)

- Product list:
Technical specifications
- Entry list:
Updates / Downloads / FAQs
Manuals / Operating instructions /
Characteristic curves / Certificates

16

System Cubicles, System Lighting and System Air-Conditioning

SIVACON sicube 8MF System Cubicles

Introduction

Overview

SIVACON sicube offers a modular system for unequipped, empty enclosures. The system cubicles can be used in different application areas and environments.

Degrees of protection

Available degrees of protection as standard:

- System cubicles without ventilation: IP40 and IP54
- System cubicles with ventilation: IP20 to IP40
- Further degrees of protection are available upon request.

Available dimensions

Minimum and maximum sizes:

- Height: From 1800 mm to 2200 mm
- Width: From 600 mm to 1200 mm
- Depth: From 400 mm to 800 mm
- Special sizes available on request

The exact graduations can be found in "Order designations of the standard versions", [see Catalog LV 50](#).

Transport

Cubicles are dispatched ex works on transport skids, or in the case of cubicle suites on transport bases.

Structure

A system cubicle comprises the following basic elements.

- Rack
- Enclosure
- Cubicle expansions

A standard rack is supplied with the following standard enclosure parts:

- Rear panel
- Flat-panel roof
- Door with espagnolette lock and lock insert
- Side panels (for stand-alone installation)

Versions

- Cutouts for special built-in components
- Double-wing doors
- Instrument covers
- Additional doors
- Roofs with busbar holders
- Doors with ventilation slots
- Perforated ventilation roofs
- Mounted units for cubicle air-conditioning

Possible cubicle modifications [see Catalog LV 50](#).

Application

SIVACON sicube 8MF system cubicles are designed especially for:

- Open- and closed-loop control technology
- Power electronics
- Data systems

Preconfigured cubicles

SIVACON sicube 8MF system cubicles are also available for special applications, e.g. in special sizes:

8MF6 earthquake-resistant version

Applications:

- In nuclear power plants
- In case of increased vibrations (e.g. on excavators)
- In areas at risk of earthquakes

EMC versions

Measures for enhancing electromagnetic compatibility (EMC) are becoming more and more important, both for individual devices and complete systems:

- Increasing processing speeds of communication systems
- Growing complexity of plants
- Contact between different systems working in a plant
- Different power levels
- More and more external interference sources

System Cubicles, System Lighting and System Air-Conditioning

SIVACON sicube 8MF System Cubicles

8MF system cubicles

Overview



8MF system cubicle

Design

- 8MF2: Completely welded rack
- 8MF5: Welded side frame sections, screwed on lateral stays, delivery form: unassembled
- 8MF6: Welded side frame sections, screwed on lateral stays, delivery form: assembled
- Side and rear panels add 9 mm to the rack dimensions
- Ground clearance of the doors: 63 mm
- Concealed hinges with an opening angle of 180° (130° for cubicle suites)
- Trim strips for labeling and integration of signaling lights

Application

8MF system cubicles are intended for the installation of devices and equipment for electronic and conventional open- and closed-loop control systems.

The design allows sub racks for 19-inch installations for the most varied industrial electronic systems or distribution modules for power distribution.

Specific design measures permit 8MF6 cubicles with the dimensions $H \times W = 2200 \times 900$ mm or 2200×600 mm to be supplied as earthquake-resistant versions for operation in nuclear power stations (see ["8MF6 earthquake-resistant version" page 16/5](#)).

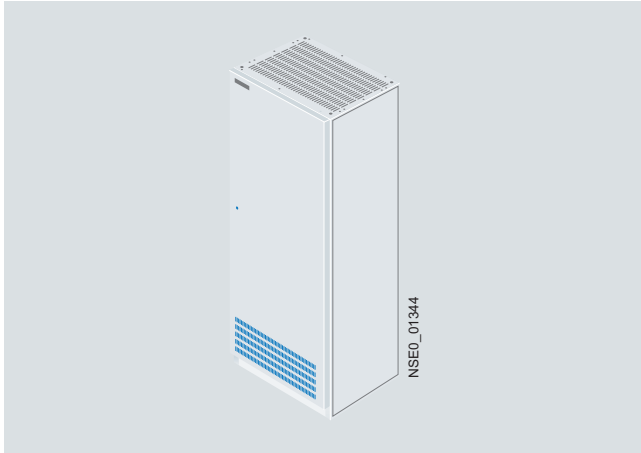
System Cubicles, System Lighting and System Air-Conditioning

SIVACON sicube 8MF System Cubicles

Preconfigured cubicles

Overview

Ventilated cubicles - 8MF2 (IP30/40)

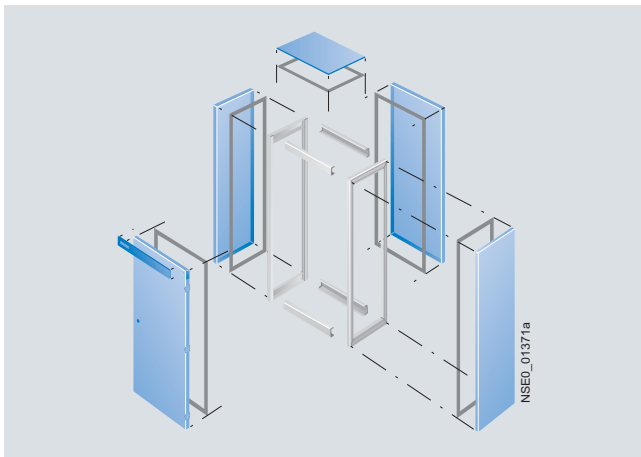


Compact designs and high packing densities demand special measures for heat dissipation. We offer ventilated cubicles in a preconfigured version, i.e. the complete cubicle can be ordered with one order number.

Features

- Perforated roof plates
- Doors with 5 rows of ventilation slots
- High air throughput per unit of area thanks to special SBL ventilation design
- IP30 and IP40 degrees of protection available

IP54 cubicles



Special ambient conditions require a high degree of protection. Particularly its protection against splashing water makes this cubicle solution suitable for use on production lines and in other areas with sprinkler systems.

Features

- Seals on all enclosure parts

System Cubicles, System Lighting and System Air-Conditioning

SIVACON sicube 8MF System Cubicles

Preconfigured cubicles

EMC cubicles



To ensure a system's EMC, it is necessary that its devices emit only limited interference and are at the same time immune as far as possible to external interference.

Features

- Cubicle rack and enclosure fully galvanized
- Paint finish only on the outer surfaces of doors and rear/side panels
- Conductive seals pre-mounted for doors and rear/side panels
- Additional standard base plate

PC cubicles - 8MF2



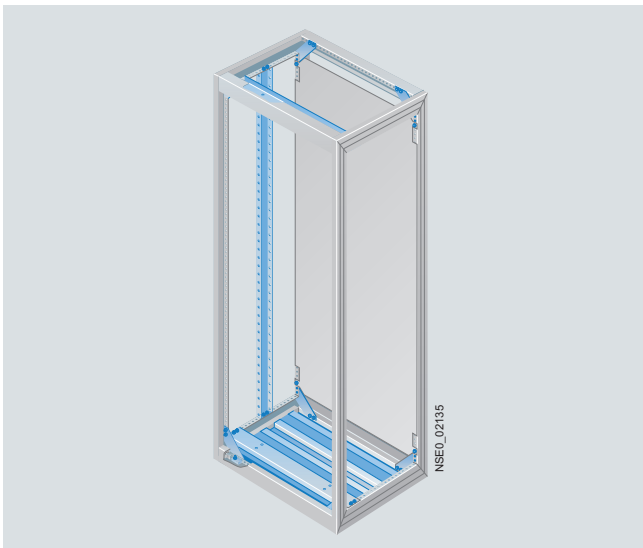
A variant of the 8MF system cubicles can also be ordered as a PC cubicle. The PC cubicle is a robust construction and is thus suitable for use in industrial environments.

Features

The standard door is replaced by:

- An upper compartment door (monitor cutout with inspection pane)
- A central hinged flap (with telescopic shelf for a keyboard)
- A lower compartment door (with shelf for a printer)

Earthquake-resistant cubicles - 8MF6



This cubicle is a certified earthquake-resistant system cubicle. An appropriate weight distribution and center of gravity are prescribed by the certification. The devices and components installed by the customer must also satisfy the relevant demands.

Features

- Bracing stays at the top and bottom, plus a stay on the side
- Base plate with multiple divisions and foam rubber profile
- Corner bracings at the top and bottom
- Reinforcement plate

8MF/8MR system lighting

Overview



Slimline light with motion detector

Cubicle lighting

The cubicle light is specifically suitable for operation in switchgear and controlgear cubicles.

In the case of lights with a SCHUKO socket outlet, the outlet is incorporated with an on/off switch or motion detector in the plastic enclosure.

The flat slimline light with motion detector or on/off switch is ideal for operation in cubicles and enclosures with a high density of built-in electrical/electronic components.

All lights are fitted with environmentally friendly energy-saving lamps.

Rating of energy-saving lamps	Rating of conventional incandescent lamps
9 W	60 W
11 W	75 W
20 W	100 W

Spare lamp: Osram SPD1411-2B (100 W)

Socket outlets

Socket outlets are mounted on 35 mm support rails and connected without screws by way of three clamping terminals (for stranded and solid wires 0.5 ... 2.5 mm²).

The maximum operational voltage is 250 V. The enclosure is light-gray UL94 V-Q plastic.

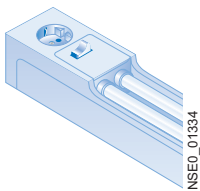
The slimline light is also available with country-specific socket outlets.

Plug-on mounts

If a cubicle light is provided with a plug-on mount, it remains immune to vibration and can be removed at any later time without tools.

If fitted between two plug-on mounts, the cubicle light is fixed statically to the cubicle rack. The cubicle light can only be fitted to the cubicle rack by using plug-on mounts.

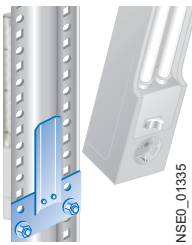
Selection and ordering data

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Cubicle lighting								
 8MF4 900	Compact lights (355 x 65 x 70 mm)							
	• 230 V, 50 Hz, 11 W (Germany)		8MF4 900		1	1 unit	181	2.230
	• 120 V, 60 Hz, 9 W (Germany)		8MF4 901		1	1 unit	181	1.115
	• 240 V, 50 Hz, 11 W		8MF4 900-1A		1	1 unit	181	1.000
	With cover							
	• 230 V, 50 Hz, 11 W		8MF4 904		1	1 unit	181	1.000
	With 3 m cable							
	• 230 V, 50 Hz, 11 W		8MF4 900-1B		1	1 unit	181	1.000
	With 3 m cable (orange-colored)							
	• 230 V, 50 Hz, 11 W		8MF4 900-1BB		1	1 unit	181	1.100
	Spare parts for compact lights							
	• Covers		8MF4 908		1	1 unit	181	0.100
	Dual lights (396 x 67 x 100 mm)							
	• 220 ... 240 V, 50-60 Hz, 20 W, with motion detector		8MF4 902		1	1 unit	181	0.600
	• 220 ... 240 V, 50-60 Hz, 20 W, with on/off switch		8MF4 905		1	1 unit	181	0.600
	• 220 ... 240 V, 50-60 Hz, 20 W, with hand-held lamp		8MF4 906		1	1 unit	181	0.600

8MF4 900

System Cubicles, System Lighting and System Air-Conditioning

8MF/8MR system lighting

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Slimline lights (345 x 91 x 40 mm) 230 V, 50/60 Hz, 11 W with pushbutton (On/Off) • With socket outlet D, without magnet • With socket outlet D, with magnet (approx. 50 N) • With socket outlet D, with magnet (approx. 30 N) • Without socket outlet, without magnet • Without socket outlet D, with magnet (approx. 50 N) • Without socket outlet D, with magnet (approx. 30 N)							
 8MF5 900-1A		8MF5 900-1A		1	1 unit	181	0.400
		8MF5 900		1	1 unit	181	0.600
		8MF5 900-1C		1	1 unit	181	0.500
		8MF5 900-2A		1	1 unit	181	0.400
		8MF5 900-1B		1	1 unit	181	0.600
		8MF5 900-2B		1	1 unit	181	0.500
230 V, 50/60 Hz, 11 W with motion detector • With socket outlet D, without magnet • With socket outlet D, with magnet (approx. 50 N) • With socket outlet D, with magnet (approx. 30 N) • Without socket outlet, without magnet • Without socket outlet D, with magnet (approx. 50 N) • Without socket outlet D, with magnet (approx. 30 N)							
 8MF5 910-1A		8MF5 910-1A		1	1 unit	181	0.400
		8MF5 910		1	1 unit	181	0.600
		8MF5 910-1C		1	1 unit	181	0.500
		8MF5 910-2A		1	1 unit	181	0.400
		8MF5 910-1B		1	1 unit	181	0.600
		8MF5 910-2B		1	1 unit	181	0.500
24 ... 48 V DC, 11 W, with pushbutton (On/Off) • Without socket outlet, without magnet • Without socket outlet, with magnet (approx. 30 N)							
		8MF5 900-3A		1	1 unit	181	0.400
		8MF5 900-3B		1	1 unit	181	0.500
24 ... 48 V DC, 11 W, with motion detector • Without socket outlet, without magnet • Without socket outlet, with magnet (approx. 30 N)							
		8MF5 910-3A		1	1 unit	181	0.400
		8MF5 910-3B		1	1 unit	181	0.500
Socket outlets							
Socket outlets with fuse • VDE • CEBEC							
		8MF9 300		1	1 unit	180	0.500
		8MF9 301		1	1 unit	181	0.020
Socket outlets without fuse • VDE							
		8MF9 305		1	1 unit	181	0.500
Plug-on mounts							
Plug-on mount • For fitting the cubicle lighting							
 8MF4 903		8MF4 903		1	1 unit	181	0.100

More information

For more information see Catalog LV 50 "SIVACON System Cubicles, System Lighting and System Air-Conditioning"

or in the Industry Mall under
 "Low-Voltage Power Distribution and Electrical Installation Technology" --> "System Cubicles, System Lighting and System Air-Conditioning" --> "8MF/8MR System Lighting"

System Cubicles, System Lighting and System Air-Conditioning

8MR System Air-Conditioning

Introduction

Overview

	Control supply voltage or voltage for switching capacity			
	24/48 V DC	115 V AC	230 V AC	400/440 V AC
8MR system air-conditioning				
Filter fans				
Standard filter fans, IP54 or IP55				
• With or without additional EMC protection	○	✓	✓	--
• Cooling capacity 8 W/K ... 282 W/K	○	✓	✓	--
• Air rate 25 m³/h ... 845 m³/h	○	✓	✓	--
• Size 92 × 92 mm to 292 mm × 292 mm	○	✓	✓	--
• Color RAL 7035 or RAL 7032	○	✓	✓	--
Roof filter fans, IP44				
• Cooling capacity 113 W/K ... 242 W/K	--	✓	✓	--
• Air rate 350 m³/h ... 690 m³/h	--	✓	✓	--
• Size 430 mm × 430 mm to 470 mm × 470 mm	--	✓	✓	--
• Color RAL 7035 or RAL 7032	--	✓	✓	--
Air conditioners/cooling devices				
For door and side mounting (recessed)				
• 380 ... 5800 W	--	--	✓	✓
For roof mounting				
• 410 ... 3850 W	--	--	✓	✓
Heat exchangers				
Standard				
• Air/air (at ΔT = 20 K)	--	✓	✓	--
For side and door mounting				
• 700 ... 1900 W	--	✓	✓	--
Heater units optionally without or with thermostat				
• 10 W ... 150 W	✓	✓	✓	--
Fan heaters optionally without or with thermostat				
• 100 W ... 1200 W	✓	✓	✓	--
• Setting ranges 0 ... +60 °C, +32 ... +140 °F	✓	✓	✓	--
Thermostats, hygrostats, hygrotherms, switching modules				
Thermostats, optionally NC, NO, CO contacts				
• Setting ranges -10... +80 °C	--	✓	✓	--
• Switching capacities up to 16 A	✓	✓	✓	--
Hygrostats, changeover contacts	✓	✓	✓	--
• 40 ... 95 % relative air humidity	✓	✓	--	--
Hygrotherms, optionally NC, NO, CO contacts				
• Setting ranges 0 ... 60 °C, +32 ... +140 °F	--	✓	✓	--
• 50 ... 90% relative air humidity	--	✓	✓	--
• Switching capacities 6 (1) A ... 8 (1.6) A	✓	✓	✓	--
• Switching modules 16 A	✓	--	--	--

✓ Available or possible

-- Not available or not possible

○ On request

The figures in brackets indicate inductive switching capacities.

System Cubicles, System Lighting and System Air-Conditioning

8MR System Air-Conditioning

Introduction

Benefits

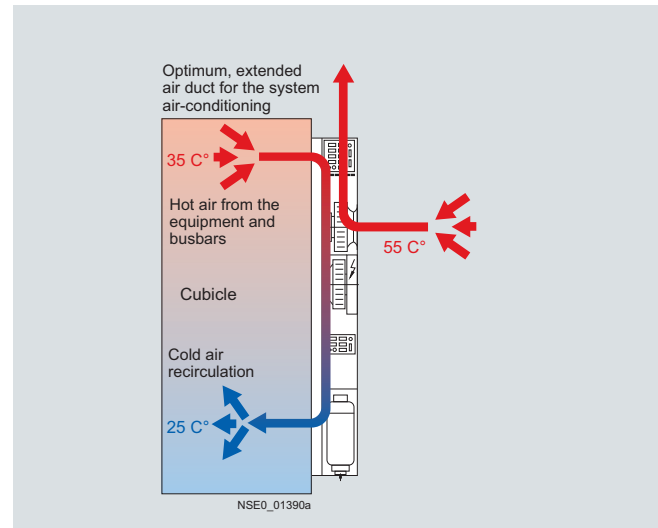
Installing air-conditioning equipment in SIVACON sicube cubicle systems ensures high fault tolerance for switchgear and control-gear assemblies and consequently a high level of availability of machines and plants.

Application

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

- Filter fans
- Air conditioners/cooling devices
- Heat exchangers, air/air
- Heater units/thermostats

When selecting individual air-conditioning components, the ambient temperature, the power losses of the installed devices, the maximum permissible device temperature and the heat dissipation capacity of the cubicle used are the factors to be considered. In addition, it is necessary to take into account the required degree of protection.



System air-conditioning – optimum air duct

More information

More information [see Industry Mall under](#)

"Building Technologies":

"Low-Voltage Power Distribution and Electrical Installation Technology" --> "SIVACON Power Distribution Boards and Busbar Trunking Systems" --> "System Cubicles, System Lighting and System Air-Conditioning" --> "SIVACON 8MR System Air-Conditioning"

System Cubicles, System Lighting and System Air-Conditioning

8MR System Air-Conditioning

Filter fans

Overview

Filter fans are the most cost-effective method - after heat dissipation through the surface of a control cubicle and/or ventilation openings in the enclosure parts of the control cubicles - for dissipating heat from control cubicles.

However, this can only achieve a control cubicle temperature which lies above the ambient temperature.

Standard filter fans optionally in EMC version

When filter fans are used for air-conditioning, the cubicle must have openings which allow electromagnetic radiation to pass in and out unobstructed. Filter fans in EMC version offer additional protection when higher requirements are imposed on electromagnetic compatibility.

Filter fan versions

The following filter fans are available on request:

- Standard filter fan IP54, color RAL 7035/7032
- Standard filter fan IP55, color RAL 7035/7032
- Standard filter fan EMC, color RAL 7035/7032, IP54
- Standard filter fan EMC, color RAL 7035/7032, IP55

Note:

For all standard filter fans the useful cooling capacity and air rate are reduced by an average of approx. 30% in combinations of filter fan / outlet filter / filter mat, and for roof filter fans by approx. 40%.

Selection and ordering data

Filter fans

	Degree of protection	Size	Air current, free blowing at 50 Hz m³/h	Cutout mm	Voltage V	Input rating at 50 Hz W	Color RAL	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Filter fans														
50/60 Hz except 8MR6 402-2LV41														
 8MR6 411-5LV10	IP54	1	25	92 × 92	115 AC	12	7035		8MR6 411-5LV10		1	1 unit	181	0.330
					230 AC	12	7032		8MR6 423-2LV10		1	1 unit	181	0.330
					230 AC	12	7035		8MR6 423-5LV10		1	1 unit	181	0.330
		2	63	125 × 125	115 AC	20	7035		8MR6 411-5LV25		1	1 unit	181	0.800
					230 AC	20	7032		8MR6 423-2LV25		1	1 unit	181	0.800
					230 AC	20	7035		8MR6 423-5LV25		1	1 unit	181	0.800
		3	115	177 × 177	115 AC	20	7035		8MR6 411-5LV30		1	1 unit	181	1.030
					230 AC	20	7032		8MR6 423-2LV30		1	1 unit	181	1.030
					230 AC	20	7035		8MR6 423-5LV30		1	1 unit	181	1.030
		4	160	223 × 223	115 AC	18	7035		8MR6 411-5LV45		1	1 unit	181	1.400
					230 AC	18	7032		8MR6 423-2LV45		1	1 unit	181	1.400
					230 AC	18	7035		8MR6 423-5LV45		1	1 unit	181	1.400
 8MR6 511-5LV10	IP55		250	223 × 223	24 DC	16	7032		8MR6 402-2LV41		1	1 unit	181	1.840
					115 AC	43	7035		8MR6 411-5LV41		1	1 unit	181	1.840
					230 AC	45	7032		8MR6 423-2LV41		1	1 unit	181	1.840
		6	580	292 × 292	230 AC	45	7035		8MR6 423-5LV41		1	1 unit	181	1.840
					115 AC	64	7035		8MR6 411-5LV60		1	1 unit	181	3.400
					230 AC	64	7032		8MR6 423-2LV60		1	1 unit	181	1.840
					230 AC	64	7035		8MR6 423-5LV60		1	1 unit	181	3.400
		930	292 × 292		115 AC	115	7035		8MR6 411-5LV80		1	1 unit	181	4.600
					230 AC	135	7035		8MR6 423-5LV80		1	1 unit	181	4.600
		2	63	125 × 125	115 AC	20	7035		8MR6 511-5LV25		1	1 unit	181	0.800
					230 AC	20	7035		8MR6 523-5LV25		1	1 unit	181	0.800
		3	115	177 × 177	115 AC	20	7035		8MR6 511-5LV30		1	1 unit	181	1.030
					230 AC	20	7035		8MR6 523-5LV30		1	1 unit	181	1.030
		4	160	223 × 223	115 AC	18	7035		8MR6 511-5LV45		1	1 unit	181	1.400
					230 AC	18	7035		8MR6 523-5LV45		1	1 unit	181	1.400
		5	250	223 × 223	115 AC	43	7035		8MR6 511-5LV41		1	1 unit	181	1.840
					230 AC	45	7035		8MR6 423-5LV41		1	1 unit	181	1.840
		6	580	292 × 292	115 AC	64	7035		8MR6 511-5LV60		1	1 unit	181	1.840
					230 AC	64	7035		8MR6 523-5LV60		1	1 unit	181	1.840
		930	292 × 292		115 AC	115	7035		8MR6 511-5LV80		1	1 unit	181	4.600
					230 AC	135	7035		8MR6 523-5LV80		1	1 unit	181	4.600

8MR6 511-5LV10

8MR6 511-5LV10

8MR6 511-5LV10

8MR6 511-5LV10

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8MR6 511-5LV10

8MR6 511-5LV10

8MR6 511-5LV10

8MR6 511-5LV10

System Cubicles, System Lighting and System Air-Conditioning

8MR System Air-Conditioning

Filter fans

	Degree of protection	Size	Air current, free blowing at 50 Hz	Cutout	Voltage	Input rating at 50 Hz	Color	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
			m³/h	mm	V	W	RAL							kg
	EMC filter fans IP54													
	IP54	3	115	177 × 177	115 AC 230 AC	20 20	7035 7035		8MR6 411-6LV30 8MR6 423-6LV30 8MR6 411-6LV45 8MR6 423-6LV45 8MR6 411-6LV41 8MR6 423-6LV41		1 1 unit	181	1.030	
		4	160	223 × 223	115 AC 230 AC	18 18	7035 7035			1 1 unit	181	1.030		
		250	223 × 223	115 AC 230 AC	43 45	7035 7035		1 1 unit		181	1.400			
								1 1 unit		181	1.400			
								1 1 unit		181	1.840			
							1 1 unit	181		1.840				
	EMC filter fans IP55													
	IP55	3	115	177 × 177	115 AC 230 AC	20 20	7035 7035		8MR6 511-6LV30 8MR6 523-6LV30 8MR6 511-6LV45 8MR6 523-6LV45 8MR6 511-6LV41 8MR6 523-6LV41		1 1 unit	181	1.030	
		4	160	223 × 223	115 AC 230 AC	18 18	7035 7035			1 1 unit	181	1.030		
		250	223 × 223	115 AC 230 AC	43 45	7035 7035		1 1 unit		181	1.400			
								1 1 unit		181	1.400			
								1 1 unit		181	1.840			
							1 1 unit	181		1.840				

Outlet filters

	Size	Dimensions				Color	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx.
		Cutout	External dimensions W × H	Overall depth	Cover grille height	RAL							
		mm	mm	mm	mm								kg
	Outlet filters IP54												
	1	92 × 92	105 × 105	12	4.5	7035		8MR6 400-2GV10 8MR6 400-5GV10		1	1 unit	181	0.060
						7035			1	1 unit	181	0.060	
	2	125 × 125	148 × 148	23	5.5	7035		8MR6 400-2GV25 8MR6 400-5GV25		1	1 unit	181	0.170
						7035			1	1 unit	181	0.170	
	3	177 × 177	204 × 204	26	6	7035		8MR6 400-5GV30		1	1 unit	181	0.350
	4	223 × 223	250 × 250	32	6	7035			8MR6 400-2GV45 8MR6 400-5GV45		1	1 unit	181
						7035		1		1 unit	181	0.500	
6	292 × 292	323 × 323	33	6.5	7035		8MR6 400-2GV67 8MR6 400-5GV67		1	1 unit	181	0.800	
					7035			1	1 unit	181	0.800		
	Outlet filters IP55												
	2	125 × 125	148 × 148	23	5.5	7035		8MR6 500-5GV25 8MR6 500-5GV30		1	1 unit	181	0.170
	3	177 × 177	204 × 204	26	6	7035			1	1 unit	181	0.350	
	4	223 × 223	250 × 250	32	6	7035		8MR6 500-5GV45 8MR6 500-5GV67		1	1 unit	181	0.500
						7035			1	1 unit	181	0.500	
	6	292 × 292	323 × 323	33	6.5	7035				1	1 unit	181	0.800
	EMC outlet filters IP54												
	3	177 × 177	204 × 204	26	6	7035		8MR6 400-6GV30 8MR6 400-6GV45		1	1 unit	181	0.350
	4	223 × 223	250 × 250	32	6	7035			1	1 unit	181	0.500	
	EMC outlet filters IP55												
	3	177 × 177	204 × 204	26	6	7035		8MR6 500-6GV30 8MR6 500-6GV45		1	1 unit	181	0.350
	4	223 × 223	250 × 250	32	6	7035			1	1 unit	181	0.500	

System Cubicles, System Lighting and System Air-Conditioning

8MR System Air-Conditioning

Filter fans

Filter mats

	Size	Dimensions W × H mm	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	Filter mats for filter fans or outlet filters for IP54								
	1	89 × 89		8MR6 000-0AM10		1	5 units	181	0.050
	2	118 × 118		8MR6 000-0AM25		1	5 units	181	0.050
	3	171 × 171		8MR6 000-0AM30		1	5 units	181	0.050
	4	216 × 216		8MR6 000-0AM45		1	5 units	181	0.085
	6	283 × 283		8MR6 000-0AM67		1	5 units	181	0.100

8MR6 000-0AM10

Roof filter fans

	Air current, free blowing at 50 Hz m ³ /h	Dimensions Cutout mm	External dimensions W × H × D mm	Voltage V	Input rating W	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	Roof filter fans IP44 for 50/60 Hz, color RAL 7035											
	405	345 × 265	420 × 340 × 108	115 230	40/45 40/45		8MR6 311-5DL40 8MR6 323-5DL40		1	1 unit	181	8.200
	690	345 × 265	420 × 340 × 108	115 230	100/130 100/130		8MR6 311-5DL42 8MR6 323-5DL42		1	1 unit	181	8.200
									1	1 unit	181	8.200
	Roof outlet filters IP44, color RAL 7035											
	Without fan	345 × 265	420 × 340 × 83	--	--		8MR6 000-5DE40		1	1 unit	181	4.500

8MR6 000-5DE40

19" withdrawable fan units

	Power W	Voltage V	Series	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	45	230	LE 019		8MR2 190-1A		1	1 unit	181	3.300

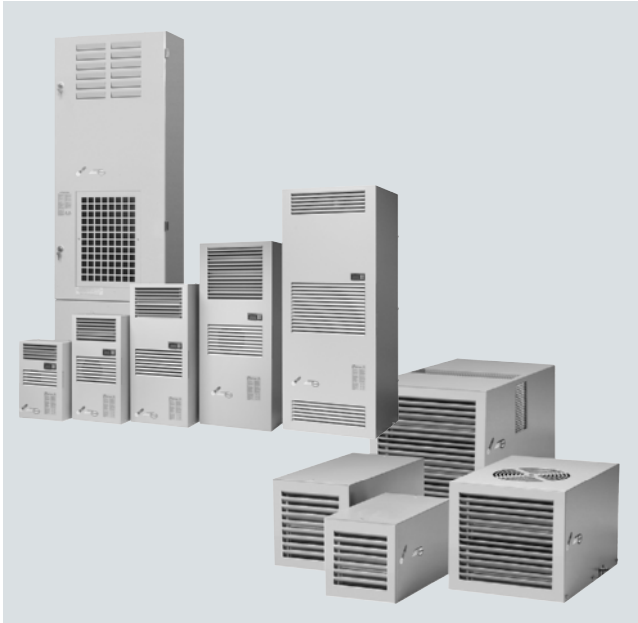
8MR2 190-1A

System Cubicles, System Lighting and System Air-Conditioning

8MR System Air-Conditioning

Air conditioners/cooling devices

Overview



8MR6 cooling devices:
door or side mounting top left, roof mounting bottom right

Where ambient temperatures are higher than the permissible device temperatures, air conditioners must be used. All units operate with CFC-free refrigerants. Air conditioners dehumidify the air inside the control cubicle.

Cooling devices for door or lateral and roof mounting

Two separate air circuits ensure that no ambient air enters the control cubicle. High-performance radial fans provide for good air circulation in the control cubicle.

Intelligent standard electronics with maximum customer benefits:

- Simple temperature control with an integrated thermostat
- Test mode
- Temperature limits
- Start-up delay
- Door contact function
- Alarm contact
- Local diagnostics
- UL-approved
- CE-approved

Versions

Air conditioners/cooling devices are available in the following versions:

- For lateral and door mounting
- For roof mounting

Selection and ordering data

Cooling devices for door or lateral mounting, degree of protection inside IP54/outside IP34, color RAL 7035

	Cooling capacity	Rated power	Dimensions	Air capacity internal/external	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	W	W	W x H x D mm	m ³ /h							kg
	Cooling devices for 230 V, 50/60 Hz¹⁾										
	380	280	285 × 460 × 180	280/280		8MR6 423-5EG04		1	1 unit	181	23.000
	640	400	360 × 606 × 212	330/570		8MR6 423-5EG06		1	1 unit	181	27.000
	820	440	348 × 783 × 215	330/570		8MR6 423-5EG08		1	1 unit	181	34.000
	1050 ²⁾	570	348 × 783 × 215	570/860		8MR6 423-5SK10		1	1 unit	181	43.000
	1550 ²⁾	880	400 × 950 × 233	570/1050		8MR6 423-5SK15		1	1 unit	181	44.000
	2050 ²⁾	1080	400 × 1265 × 236	860/1050		8MR6 423-5SK20		1	1 unit	181	66.000
	Cooling devices for 400 V, 50/60 Hz¹⁾										
	2900	1220	500 × 1270 × 336	860/1450		8MR6 440-5EG30		1	1 unit	181	86.000
	1780	1780	500 × 1270 × 336	1450/1450		8MR6 440-5EG40		1	1 unit	181	88.000
	5800	2340	600 × 2000 × 380	1450/2900		8MR6 440-5EG60		1	1 unit	181	156.000

¹⁾ Surface mounting and full integration possible.

²⁾ Partial integration possible.

Cooling devices for roof mounting, degree of protection inside IP54/outside IP34, color RAL 7035

	Cooling capacity	Rated power	Dimensions	Air capacity internal/external	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
	W	W	W x H x D mm	m ³ /h							kg
	Cooling devices for 230 V, 50/60 Hz										
	410	270	259 × 264 × 486	235/330		8MR6 423-5DE04		1	1 unit	181	24.000
	820	510	340 × 340 × 600	330/570		8MR6 423-5DE08		1	1 unit	181	37.700
	1150	550	401 × 415 × 567	570/1010		8MR6 423-5DE12		1	1 unit	181	46.000
	1550	810	401 × 415 × 567	860/1820		8MR6 423-5DE15		1	1 unit	181	50.000
	2050	1190	401 × 415 × 567	1050/1820		8MR6 423-5DE20		1	1 unit	181	56.000
	Cooling devices for 400 V, 50/60 Hz										
	2900	1210	492 × 496 × 797	860/3410		8MR6 440-5DE30		1	1 unit	181	88.000
	3850	1630	492 × 496 × 797	1450/3410		8MR6 440-5DE40		1	1 unit	181	90.000

System Cubicles, System Lighting and System Air-Conditioning

8MR System Air-Conditioning

Heat exchangers

Overview



Heat exchanger 80 W/K

Air/air principle

Heat exchangers designed on the air/air principle function with two completely separate air circuits: an internal and an external circuit. One fan draws in cool external air. A second fan then directs the warmed air inside the cubicle past a large-area finned partition element, which passes the heat to the external circuit.

Note:

The devices can be surface mounted and fully integrated.

Selection and ordering data

Air/air heat exchangers, degree of protection IP54, color RAL 7035

	Thermal power	Rated power	Dimensions	Air capacity	DT	Order No.	Price	PU	PS*/	PG	Weight
	W/K	W	W × H × D	internal/external			per PU	(UNIT, SET, M)	P. unit		per PU approx.
			mm	m ³ /h							kg
	Heat exchangers for 230 V, 50/60 Hz										
	36	140	316 × 771 × 93	570/570		8MR6 423-5ML36		1	1 unit	181	7.000
	80	240	317 × 1260 × 108	1050/1050		8MR6 423-5ML80		1	1 unit	181	17.000

8MR6 423-5ML80

System Cubicles, System Lighting and System Air-Conditioning

8MR System Air-Conditioning

Heater units

Overview



Small semiconductor heater unit, 8MR2 131-0A

Control cabinet heater units are used for preventing malfunctions due to condensation water and corrosion and for controlling the temperature inside the control cabinet (observance of a minimum temperature).

The plastic enclosure is designed such that the surface temperatures on the touchable side areas are kept very low.

The heater units are designed for uninterrupted duty.

All units are also available in UL-approved versions and for special voltages.

Selection and ordering data

Version		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
Heater units								
 8MR2 130-1A	Heater units, UL-approved, with PTC thermistor 110-250 V AC/DC							
	• 15 W		8MR2 130-1A		1	2 units	181	0.600
	• 30 W		8MR2 130-3A		1	2 units	181	0.600
	• 45 W		8MR2 130-4A		1	1 unit	181	0.300
	• 60 W		8MR2 130-6A		1	1 unit	181	0.400
	• 75 W		8MR2 130-7A		1	1 unit	181	0.500
	• 100 W		8MR2 130-0A		1	1 unit	181	0.500
	• 150 W		8MR2 130-5A		1	1 unit	181	0.700
 8MR2 131-4A	Semiconductor heater units without thermostat, degree of protection IP20, UL-approved, compact design 120-250 V AC/DC							
	• 50 W		8MR2 131-4A		1	1 unit	181	0.290
	• 100 W		8MR2 131-0A		1	1 unit	181	0.300
	• 150 W		8MR2 131-5A		1	1 unit	181	0.440
 8MR2 132-1A	Semiconductor heater units with thermostat, degree of protection IP20, compact design 120-250 V AC/DC							
	• 50 W, 15 °C		8MR2 132-1A		1	1 unit	181	0.300
	• 50 W, 25 °C		8MR2 132-1AB		1	1 unit	181	0.300
	• 100 W, 15 °C		8MR2 132-0A		1	1 unit	181	0.310
	• 100 W, 25 °C		8MR2 132-0AB		1	1 unit	181	0.310
	• 150 W, 15 °C		8MR2 132-5A		1	1 unit	181	0.440
	• 150 W, 25 °C		8MR2 132-5AB		1	1 unit	181	0.440

System Cubicles, System Lighting and System Air-Conditioning

8MR System Air-Conditioning

Fan heaters

Overview



Fan heaters with integrated thermostat or hygrosat

Where higher heating outputs (from 150 W) are required, fan heaters are used.

The integrated fans provide for better air circulation and hereby achieve a more uniform air temperature distribution in the control cabinet.

All units are also available in UL-approved versions and for special voltages.

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg	
Fan heaters								
Fan heaters in standard version								
 8MR2 140-0A	• Without fan, UL-approved - 230 V AC, 100 W - 230 V AC, 150 W - 230 V AC, 200 W - 230 V AC, 300 W - 230 V AC, 400 W - 230 V AC, 600 W	8MR2 140-0A		1	1 unit	181	0.400	
		8MR2 140-1A		1	1 unit	181	0.400	
		8MR2 140-2A		1	1 unit	181	0.500	
		8MR2 140-3A		1	1 unit	181	0.500	
		8MR2 140-4A		1	1 unit	181	0.500	
		8MR2 140-6C		1	1 unit	181	0.600	
		 8MR2 140-0B	• With fan, UL-approved - 230 V AC, 100 W - 230 V AC, 150 W - 230 V AC, 200 W - 230 V AC, 300 W - 230 V AC, 400 W - 230 V AC, 600 W	8MR2 140-0B		1	1 unit	181
8MR2 140-1B				1	1 unit	181	0.600	
8MR2 140-2B				1	1 unit	181	0.900	
8MR2 140-3B				1	1 unit	181	0.900	
8MR2 140-4B				1	1 unit	181	0.900	
8MR2 140-6D				1	1 unit	181	1.000	
Compact fan heaters								
 8MR2 122-4A	• With fan, UL-approved - 230 V AC, 250 W - 230 V AC, 400 W - 120 V AC, 250 W - 120 V AC, 400 W	8MR2 122-4A		1	1 unit	181	1.100	
		8MR2 122-8A		1	1 unit	181	1.400	
		8MR2 122-4B		1	1 unit	181	1.100	
		8MR2 122-8B		1	1 unit	181	1.400	
	• With fan - 24 V DC, 250 W - 48 V DC, 250 W	8MR2 122-4AB		1	1 unit	181	1.100	
		8MR2 122-4AC		1	1 unit	181	1.100	
		Fan heaters with integrated thermostat or hygrosat						
 8MR2 150-0A	230 V AC, 950 W	• Fan heaters, UL-approved, for floor mounting - Temperature range 0 to 60 °C - 65% relative air humidity	8MR2 150-0A		1	1 unit	181	1.400
			8MR2 150-0BA		1	1 unit	181	1.400
 8MR2 150-0C		• Fan heaters, UL-approved, for wall mounting - Temperature range 0 to 60 °C - 65% relative air humidity	8MR2 150-0C		1	1 unit	181	1.450
			8MR2 150-0CA		1	1 unit	181	1.450

System Cubicles, System Lighting and System Air-Conditioning

8MR System Air-Conditioning

Fan heaters

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Semiconductor fan heaters							
 8MR2 150-2C	Fan heaters						
	UL-approved						
	• Clip fixing for 35 mm standard mounting rail						
	- 230 V AC, 150 W, °C	8MR2 150-2C		1	1 unit	181	0.300
	- 230 V AC, 350 W, °C	8MR2 140-3C		1	1 unit	181	1.100
	- 230 V AC, 550 W, °C	8MR2 140-5C		1	1 unit	181	1.100
	- 120 V AC, 350 W, °F	8MR2 140-3D		1	1 unit	181	1.100
 8MR2 150-2A	- 120 V AC, 550 W, °F	8MR2 140-5D		1	1 unit	181	1.100
	• With fixing						
	- 230 V AC, 150 W, screw fixing	8MR2 150-2D		1	1 unit	181	0.300
PTC fan heaters for floor mounting							
 8MR2 150-2A	230 V AC, 1200 W, screw fixing (M5)						
	• With thermostat, 0 to 60 °C	8MR2 150-2A		1	1 unit	181	1.200
 8MR2 150-3A	• Without thermostat	8MR2 150-2B		1	1 unit	181	1.200
	PTC heater units for wall mounting						
 8MR2 150-3A	UL-approved, 230 V AC, 1200 W, clip fixing for 35 mm standard mounting rail or screw fixing (M6)						
	• With thermostat, 0 to 60 °C	8MR2 150-3A		1	1 unit	181	1.250
	• Without thermostat	8MR2 150-3B		1	1 unit	181	1.250

System Cubicles, System Lighting and System Air-Conditioning

8MR System Air-Conditioning

Thermostats, hygrostats, hygrotherms, switching modules

Overview



Tamper-proof thermostat, NC contact

Thermostats

Thermostats (as NC, NO or CO contacts) are used to regulate cooling devices, filter fans and heat exchangers, as well as to trigger signals in case of excessive temperatures.

Hygrostats

Hygrostats are used to regulate heaters/fan heaters so that the temperature increase raises the dew point from a critical humidity of 65% in cubicles and enclosures with built-in electrical and electronic components. This prevents condensation on structural parts and electronic components.

Hygrotherms

Hygrotherms monitor both temperature and relative humidity in cubicles and enclosures with built-in electrical/electronic components and switch on a heater or fan upon reaching the selected values (temperature or relative humidity). This prevents condensation on structural parts and electronic components.

Switching modules

Switching modules are electronic relays for the switching of high-power DC devices.

Thermostats, hygrostats or hygrotherms can be connected to operate the switching modules.

Note:

The switching capacity values quoted in brackets refer to inductive loads.

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Thermostats							
Small thermostats							
UL-approved, max. switching capacity 250 V AC, 10 A (2 A)							
• NC contacts							
- Temperature range 0 ... 60 °C							
- Temperature range -10 ... 50 °C							
- Temperature range +20 ... 80 °C							
		8MR2 170-2BA		1	1 unit	181	0.040
		8MR2 170-1CA		1	3 units	181	0.150
		8MR2 170-1DA		1	3 units	181	0.150
8MR2 170-1BA							
• NO contacts							
- Temperature range 0 ... +60 °C							
- Temperature range -10 ... +50 °C							
- Temperature range +20 ... +80 °C							
		8MR2 170-2BB		1	1 unit	181	0.040
		8MR2 170-1CB		1	3 units	181	0.040
		8MR2 170-1DB		1	3 units	181	0.040
8MR2 170-1BB							
Fix thermostats							
UL-approved, max. switching capacity 250 V AC, 5 A (1.6 A)							
• NC contacts							
- Temperature range 15 °C / 59 °F (5 °C / 41 °F)							
- Temperature range 25 °C / 77 °F (15 °C / 59 °F)							
		8MR2 171-1BA		1	1 unit	181	0.023
		8MR2 171-2BA		1	1 unit	181	0.023
8MR2 171-1BA/2BA							
• NO contacts							
- Temperature range 50 °C / 122 °F (40 °C / 104 °F)							
- Temperature range 60 °C / 140 °F (50 °C / 122 °F)							
		8MR2 171-1BB		1	1 unit	181	0.023
		8MR2 171-2BB		1	1 unit	181	0.023
8MR2 171-1BA/2BA							

System Cubicles, System Lighting and System Air-Conditioning

8MR System Air-Conditioning

Thermostats, hygrostats, hygrotherms, switching modules

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	Mechanical thermostats UL-approved							
	• Changeover contact +5 ... +60 °C, max. switching capacity 250 V AC, 10 A (4 A)		8MR2 170-1A		1	2 units	181	0.100
	• Changeover contact -20 ... +30 °C, max. switching capacity 250 V AC, 10 A (4 A)		8MR2 170-1B		1	1 unit	181	0.100
	Electronic thermostats • CO contact, 0 ... +60 °C, max. switching capacity 28 V DC, 16 A		8MR2 170-2A		1	1 unit	181	0.080
	Twin thermostats • NC and NO contacts, 0 ... +60 °C, max. switching capacity 250 V AC, 10 A (2 A)		8MR2 170-1E		1	2 units	181	0.090
	Twin thermostats (Fix) • NC contact, 15 °C/59 °F (5 °C/41 °F) and NO contact, 50 °C/122 °F (40 °C/104 °F) max. switching capacity 250 V AC, 5 A (1.6 A)		8MR2 172-1A		1	1 unit	181	0.040
	• NC contact, 25 °C/77 °F (15 °C/ 59 °F) and NO contact, 60 °C/140 °F (50 °C/122 °F) max. switching capacity 250 V AC, 5 A (1.6 A) or 30 W DC		8MR2 172-2A		1	1 unit	181	0.040
	• NO contact, 50 °C/122 °F (40 °C/104 °F) and NO contact, 60 °C/140 °F (50 °C/122 °F) max. switching capacity 250 V AC, 5 A (1.6 A)		8MR2 172-1AB		1	1 unit	181	0.040
Hygrostats								
	Mechanical hygrostats • UL-approved • For regulating heaters/fan heaters so that the temperature increase raises the dew point • CO contact, 230 V AC • 35 ... 95 % relative air humidity • Max. switching capacity 250 V AC, 5 A (0.2 A) or 20 W DC • Min. switching capacity 20 V AC/DC, 100 mA		8MR2 170-1C		1	1 unit	181	0.060
	Electronic hygrostats • CO contact, 230 V AC • 40 ... 90% relative air humidity • Max. switching capacity 240 V AC, 8 A (1.6 A) • For regulating heaters/fan heaters so that the temperature increase raises the dew point		8MR2 170-1AF		1	1 unit	181	0.700

System Cubicles, System Lighting and System Air-Conditioning

8MR System Air-Conditioning

Thermostats, hygrostats, hygrotherms, switching modules

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
Hygrotherms							
 8MR2 170-4F	Electronic hygrotherms UL-approved, 50 ... 90% relative air humidity, for simultaneously monitoring both temperature and relative humidity in cubicles and enclosures with electronic components, CO contacts						
	120 V AC, +32 to +140 °F, max. switching capacity of NC contacts: 120 V AC, 6 A (1 A), max. switching capacity of NO contacts: 120 V AC, 8 A (1.6 A)		8MR2 170-4F	1	1 unit	181	0.020
	120 V AC, 0 ... +60 °C, max. switching capacity of NC contacts: 120 V AC, 6 A (1 A), max. switching capacity of NO contacts: 120 V AC, 8 A (1.6 A)		8MR2 170-4H	1	1 unit	181	0.020
	230 V AC, 0 ... +60 °C, max. switching capacity of NC contacts: 240 V AC, 6 A (1 A), max. switching capacity of NO contacts: 240 V AC, 8 A (1.6 A)		8MR2 170-4E	1	1 unit	181	0.200
Switching modules							
 8MR2 180-1A	Switching modules Electronic relay for switching high-power DC devices from thermostats, hygrostats or hygrotherms						
	24 V DC, 16 A		8MR2 180-1A	1	1 unit	181	0.085
	48 V DC, 16 A		8MR2 180-1B	1	1 unit	181	0.085

More information

More information see Industry Mall under

"Building Technologies":

"Low-Voltage Power Distribution and Electrical Installation Technology"

--> "SIVACON Power Distribution Boards and Busbar Trunking Systems"

--> "System Cubicles, System Lighting and System Air-Conditioning"

--> "SIVACON 8MR System Air-Conditioning"

ALPHA DIN Technology Distribution Boards

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17.1/1 **ALPHA SIMBOX**
small distribution boards

17.2/1 **ALPHA 160**
distribution boards

17.3/1 **ALPHA 400**
distribution boards

17.4/1 **ALPHA 630**
distribution boards

17.5/1 **ALPHA AS 1250**
distribution boards

More technical product information:

Service&Support portal:

[www.siemens.com/lowvoltage/
technical-support](http://www.siemens.com/lowvoltage/technical-support)

→ Product list:
Technical specifications

→ Entry list:
Updates / Downloads / FAQs
Manuals / Operating instructions /
Characteristic curves / Certificates

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ALPHA DIN Technology Distribution Boards

Notes

ALPHA SIMBOX

Small Distribution Boards

17.1



17.1/2 Introduction

SIMBOX XL: Flush-mounting and hollow-wall distribution boards

17.1/4 Introduction

17.1/5 Versions

17.1/6 Accessories

SIMBOX XL: Surface-mounting distribution boards, IP30

17.1/7 Introduction

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SIMBOX WP: Surface-mounting distribution boards, IP65

17.1/10 Introduction

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17.1/13 Dimensional drawings

More technical product information:

Service&Support portal:

www.siemens.com/lowvoltage/technical-support

 → Product list:
 Technical specifications

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ALPHA SIMBOX Small Distribution Boards

Introduction

Overview

		Devices	Page	Surface-mounting distribution boards	Flush-mounting distribution boards	Rated current	Cubicle depth	Safety class	
						A	mm	1	2
	ALPHA SIMBOX small distribution boards	SIMBOX XL: Flush-mounting and hollow-wall distribution boards	17.1/4	--	✓	63	88 ¹⁾	--	✓
		SIMBOX XL: Surface-mounting distribution boards IP30	17.1/8	✓	--	63	99	--	✓
		SIMBOX WP: Surface-mounting distribution boards IP65	17.1/10	✓	--	63	100/140/160	--	✓
	ALPHA 160 DIN technology distribution boards	Cubicle, partially equipped	17.2/6	✓	✓	160	140	--	✓
		Unequipped distribution board	17.2/6	✓	✓	160	140	--	✓
	ALPHA 400 DIN technology distribution boards	Unequipped distribution board, flat pack	17.3/9	✓	--	400	210	✓	✓
		Unequipped distribution board, pre-assembled	17.3/10	✓	✓	400	210	✓	✓
	ALPHA 630 DIN technology distribution boards	Unequipped distribution board, flat pack	17.4/7	✓	--	630	210	✓	✓
		Unequipped distribution board, pre-assembled	17.4/7	✓	--	630	210 / 250 / 320	✓	✓
		Unequipped distribution board, pre-assembled, with open side panels	17.4/8	✓	--	630	250 / 320	✓	--
	ALPHA AS 1250 DIN technology distribution boards	Unequipped distribution board, pre-assembled	17.5/7	✓	--	1250	400	✓	--

¹⁾ Mounting depth

Degree of protection	VDE	EN	DIN	IEC	Meets requirements of 8.2.1 - 8.2.7 according to EN 60439-1	Meets requirements of 8.2.9 - 8.2.15 according to EN 60439-3
IP30	DIN VDE 0603	--	DIN 43871	--	--	--
IP30	DIN VDE 0603	--	DIN 43871	--	--	--
IP65	DIN VDE 0603-1, DIN VDE 0660-500/504	EN 60439-1/-3	DIN 43871	IEC 60439-1/-3	✓	✓
IP31 / IP43	DIN VDE 0660-500/504	EN 60439-1/-3	--	IEC 60439-1/-3	✓	✓
IP43	DIN VDE 0660-500/504	EN 60439-1/-3	--	IEC 60439-1/-3	✓	✓
IP31 / IP43 / IP55						
IP43						
IP43 / IP55	DIN VDE 0660-500/504	EN 60439-1/-3	--	IEC 60439-1/-3	✓	✓
IP55						
IP55	DIN VDE 0660-500/504	EN 60439-1/-3	--	Type verification according to IEC 61439-2	✓	✓

ALPHA SIMBOX Small Distribution Boards

SIMBOX XL: Flush-Mounting and Hollow-Wall Distribution Boards

Introduction

Overview

The new generation of Siemens small distribution boards is designed for maximum utilization of space, even in extremely confined conditions.

Raised front covers, enlarged terminal compartments and integrated cable routing aids enable easy wiring. With a compact mounting depth of just 88 mm these distribution boards fit in the narrowest of hollow walls.

To round off the package there is a comprehensive package of accessories which is compatible with the surface-mounting distribution board (terminals, covering strips, door locks).

Benefits

- Ample wiring space
- Raised front cover
- Sealable front cover
- Integrated water-level
- Marking aid on the wall-recessed box
- Small mounting depth of just 88 mm
- Each tier can be expanded by 2 MW
- Hollow-wall distribution board also suitable for flush-mounting

Application

Small distribution boards are suitable as sub-distribution boards or floor panel boards for all applications in electrical building installations. Thanks to their compact mounting depth, they can be installed close to the respective load center in residential and non-residential buildings, as well as in schools, commercial buildings and shops.

Design

- Available in sizes with 1-4 tiers
- Door and frame are made of elegant metal components
- Small mounting depth of 88 mm is ideal for hollow-wall installations
- Strain relief possibilities are provided at the top and bottom of the distribution board
- Knockouts enable cable entry from all four sides of the distribution board
- Integrated cable routing aids in the wall-recessed box
- Space-saving slots for RCCB terminals are available in addition to terminal strips

Technical specifications

Rated current in A	up to 63
Rated voltage in V AC	400
Degree of protection	IP30
Safety class	2 (total insulation)
Color	pure white RAL 9010
Mounting rail spacing in mm	125
Standards	DIN VDE 0603-1 DIN 43871
Mounting depth in mm	88

ALPHA SIMBOX Small Distribution Boards

SIMBOX XL: Flush-Mounting and Hollow-Wall Distribution Boards

Versions

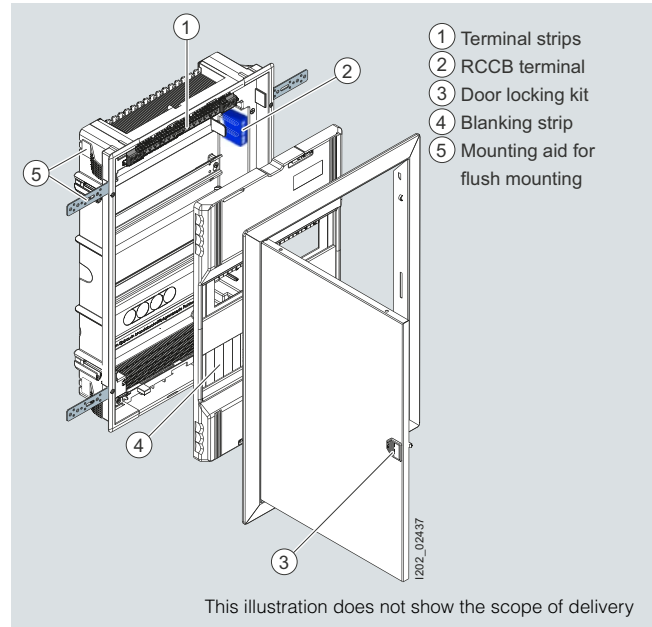
Overview

Features

- Pure white RAL 9010
- Each tier can be expanded by 2 MW to a maximum of 14 MW
- Small mounting depth of 88 mm
- All distribution boards are pre-configured with terminal strips featuring user-friendly plug-in terminals

Mounting

- Distribution boards of size 2 and larger are pre-configured for the installation of two RCCB circuits
- Upgrading of the distribution boards with space-saving RCCB terminals is also possible



Selection and ordering data

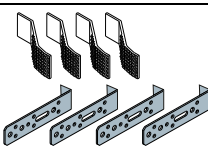
	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
	Flush-mounting distribution boards							
	Type	Recess dimensions L x W x D in mm	Tiers x MW	Equipping options Terminal strips Number x type				
	1-tier	393 x 359 x 88	1 x 12	1 x 8GB5 016-5KM --	8GB5 012-1KM	1	1 unit 032	2.700
	2-tier	518 x 359 x 88	2 x 12	1 x 8GB5 016-5KM 1 x 8GB5 005-5KM	8GB5 024-1KM	1	1 unit 032	3.500
	3-tier	643 x 359 x 88	3 x 12	1 x 8GB5 017-5KM 1 x 8GB5 021-5KM	8GB5 036-1KM	1	1 unit 032	4.300
	4-tier	768 x 359 x 88	4 x 12	1 x 8GB5 017-5KM 1 x 8GB5 021-5KM	8GB5 048-1KM	1	1 unit 032	5.100
	Hollow-wall distribution boards Including accessories for hollow-wall mounting							
	Type	Recess dimensions L x W x D in mm	Tiers x MW	Equipping options Terminal strips Number x type				
	1-tier	393 x 359 x 88	1 x 12	1 x 8GB5 016-5KM --	8GB5 012-4KM	1	1 unit 032	2.700
	2-tier	518 x 359 x 88	2 x 12	1 x 8GB5 016-5KM 1 x 8GB5 005-5KM	8GB5 024-4KM	1	1 unit 032	3.400
	3-tier	643 x 359 x 88	3 x 12	1 x 8GB5 017-5KM 1 x 8GB5 021-5KM	8GB5 036-4KM	1	1 unit 032	4.300
	4-tier	768 x 359 x 88	4 x 12	1 x 8GB5 017-5KM 1 x 8GB5 021-5KM	8GB5 048-4KM	1	1 unit 032	5.000

ALPHA SIMBOX Small Distribution Boards

SIMBOX XL: Flush-Mounting and Hollow-Wall Distribution Boards

Accessories

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx. kg
 ① Terminal strips with plug-in terminals Number of slots per distribution board: • 1 to 2-tier: 2 units • 3 to 4-tier: 3 units							
Type	Potential 1	Potential 2					
N/PE	N = 3×25 + 14×4 mm ²	PE = 3×25 + 14×14 mm ²	8GB5 016-5KM	1	1 unit	032	0.110
N/N	N ₁ = 3×25 + 1 4×4 mm ²	N ₂ = 3×25 + 14×14 mm ²	8GB5 017-5KM	1	1 unit	032	0.110
N	N = 6×25 + 28×4 mm ²		8GB5 020-5KM	1	1 unit	032	0.110
PE	PE = 6×16 + 28×4 mm ²		8GB5 021-5KM	1	1 unit	032	0.110
 ① Terminals strips with screw terminals Number of slots per distribution board: • 1 to 2-tier: 2 units • 3 to 4-tier: 3 units							
Type	Potential 1	Potential 2					
N/PE	N = 3×16 + 14×10 mm ²	PE = 3×16 + 14×10 mm ²	8GB5 008-5KM	1	1 unit	032	0.130
N/N	N ₁ = 3×16 + 14×10 mm ²	N ₂ = 3×16 + 14×10 mm ²	8GB5 015-5KM	1	1 unit	032	0.130
N	N = 6×16 + 28×10 mm ²		8GB5 010-5KM	1	1 unit	032	0.130
PE	PE = 6×16 + 28×10 mm ²		8GB5 011-5KM	1	1 unit	032	0.130
 ② RCCB terminals For distributing the neutral conductor to two RCCBs N = 3×16 + 2×10 mm ²							
			8GB5 005-5KM	1	1 unit	032	0.021
 ③ Door locking kits • For snapping into door handle • With two keys							
			8GB5 006-5KM	1	1 unit	032	0.026
 ④ Blanking strips • 12 MW wide • Color: White • With increased flame protection up to 850°C, hence suitable for hollow-wall distribution boards							
			8GB4 683	1	10 units	032	0.042
 ⑤ Mounting aids for flush mounting • Comprising four wall anchors and locking aids • Can also be used in hollow-wall distribution boards							
			8GB5 013-5KM	1	1 unit	032	0.120

8GB5 005-5KM

8GB5 006-5KM

8GB4 683

8GB5 013-5KM

ALPHA SIMBOX Small Distribution Boards

SIMBOX XL: Surface-Mounting Distribution Boards, IP30

Introduction

Overview

The new generation of Siemens small distribution boards is designed for maximum utilization of space, even in extremely confined conditions.

The SIMBOX XL offers ample wiring space.

To round off the package there is a comprehensive package of accessories which are compatible with the flush-mounting/hollow-wall distribution board (terminals, covering strips, door locks).

Benefits

- Knockouts enable cable entry from all four sides and the rear of the distribution board
- A comprehensive range of plastic doors is available in addition to robust sheet-steel doors
- Each tier can be expanded by 2 MW
- The accessories pack can also be used for flush-mounting and hollow-wall distribution boards

Application

Small distribution boards are suitable as sub-distribution boards or floor panel boards for all applications in electrical building installations.

Thanks to their small dimensions, they can be installed close to the respective load center in residential and non-residential buildings, as well as in schools, commercial buildings and shops.

Design

- Available in sizes with 1-4 tiers
- Strain relief possibilities are provided at the top and bottom of the distribution board
- Knockouts enable cable entry from all four sides of the distribution board
- Space-saving slots for RCCB terminals are available in addition to terminal strips
- When the gray transparent plastic doors are used, indicator lights are also visible when the door is closed
- Raised mounting rails permit user-friendly cable bushing

Technical specifications

Rated current in A	up to 63
Rated voltage in V AC	400
Degree of protection	IP30
Safety class	2 (total insulation)
Color	pure white RAL 9010
Mounting rail spacing in mm	125
Standards	DIN VDE 0603-1 DIN 43871



ALPHA SIMBOX Small Distribution Boards

SIMBOX XL: Surface-Mounting Distribution Boards, IP30

Accessories

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG	Weight per PU approx.
							kg
 Terminal strips with plug-in terminals Number of slots per distribution board: • 1 to 2-tier: 2 units • 3 to 4-tier: 3 units							
Type	Potential 1	Potential 2					
N/PE	N = 3×25 + 14×4 mm ²	PE = 3×25 + 14×14 mm ²	8GB5 016-5KM	1	1 unit	032	0.110
N/N	N ₁ = 3×25 + 14×4 mm ²	N ₂ = 3×25 + 14×14 mm ²	8GB5 017-5KM	1	1 unit	032	0.110
N	N = 6×25 + 28×4 mm ²		8GB5 020-5KM	1	1 unit	032	0.110
PE	PE = 6×16 + 28×4 mm ²		8GB5 021-5KM	1	1 unit	032	0.110
 Terminals strips with screw terminals Number of slots per distribution board: • 1 to 2-tier: 2 units • 3 to 4-tier: 3 units							
Type	Potential 1	Potential 2					
N/PE	N = 3×16 + 14×10 mm ²	PE = 3×16 + 14×10 mm ²	8GB5 008-5KM	1	1 unit	032	0.130
N/N	N ₁ = 3×16 + 14×10 mm ²	N ₂ = 3×16 + 14×10 mm ²	8GB5 015-5KM	1	1 unit	032	0.130
N	N = 6×16 + 28×10 mm ²		8GB5 010-5KM	1	1 unit	032	0.130
PE	PE = 6×16 + 28×10 mm ²		8GB5 011-5KM	1	1 unit	032	0.130
 RCCB terminals For distributing the neutral conductor to two RCCBs N = 3×16 + 2×10 mm ²			8GB5 005-5KM	1	1 unit	032	0.021
 Door locking kits • For snapping into door handle • With two keys			8GB5 006-5KM	1	1 unit	032	0.026
 Blanking strips • 12 MW wide • Color: White • With increased flame protection up to 850°C, hence suitable for hollow-wall distribution boards			8GB4 683	1	10 units	032	0.042

8GB5 005-5KM

8GB5 006-5KM

8GB4 683

ALPHA SIMBOX Small Distribution Boards

SIMBOX WP: Surface-Mounting Distribution Boards, IP65

Introduction

Benefits

- Plan and configure quickly, simply and conveniently with the ALPHA SELECT software – also available on the DVD enclosed with the paper catalog (see below).
- The wiring space behind the standard mounting rail is 15 mm and 48 mm, ensuring fast and easy wiring
- The door can be hinged on the right or left without tools
- Door opening angle of 180°
- The withdrawable device rack ensures easy and fast assembly. The generous wiring space and clearly arranged modular design reduce assembly times by approx. 20 %
- The plastic materials used can be recycled.
- ALPHA Select

Application

Due to the high degree of protection IP65, these small distribution boards can withstand harsh ambient conditions in both indoor and outdoor areas.

Their resistance to dust and splashing water makes them ideal for use in a range of different application areas, such as car washes, farms, joiners' workshops, etc.

Special applications

Due to their large temperature operating range (-25°C to +60°C), UV radiation resistance and resistance to dust and splashing water, this small distribution board range is especially suitable for harsh ambient conditions.

Technical specifications

According to EN / IEC 60439-3

Rated current in A	up to 63
Rated voltage in V AC	400
Degree of protection	IP65
Safety class	2 (total insulation)
Color	light gray RAL 7035
Temperature range	-20°C to + 60 °C)
Impact strength	IK07
Mounting rail spacing	150 mm
Device mounting depth	70 mm

According to IEC 62208 9.10 (EN / IEC 61439-1 Table 8)

Rated insulation voltage in AC/DC in V	1000
Valid for	Empty enclosures without terminal strips. Installed devices must be designed for this insulation voltage

ALPHA SIMBOX Small Distribution Boards

SIMBOX WP: Surface-Mounting Distribution Boards, IP65

Versions

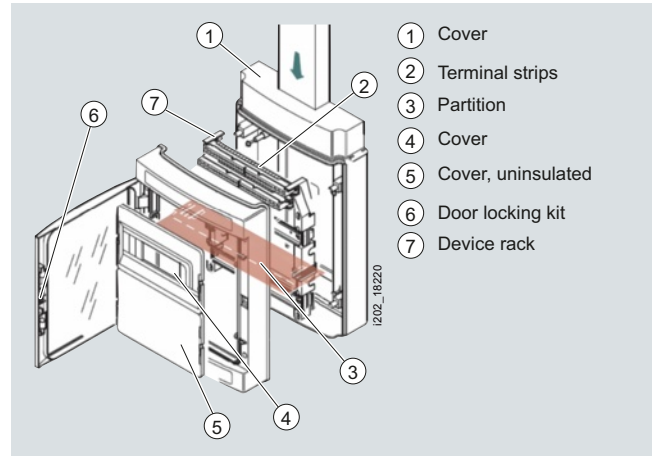
Overview

Features

- Degree of protection IP65
- Can be used in outdoor areas (-20 °C to +60 °C)
- Safety class 2 (total insulation)
- UV-resistant
- Transparent doors
- Color light gray RAL 7035

Mounting instructions

- N/PE terminal strips must be ordered separately
- 1 blanking strip is provided for each tier
- For device mounting depths up to 70 mm



Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG	Weight per PU approx. kg
Surface-mounting distribution boards							
Type	External dimensions H x W x D in mm	Tiers x MW	② slots N/PE terminal strips ¹⁾ No. x Type				
 8GB1 371-2	• 1-tier 210 x 143 x 100 210 x 215 x 100 260 x 298 x 140 285 x 410 x 140	1 x 4	—	8GB1 371-0	1	1 unit	0.579
		1 x 8	1 x 8GB2 052-0	8GB1 371-1	1	1 unit	0.808
		1 x 12	1 x 8GB2 052-1	8GB1 371-2	1	1 unit	1.677
		1 x 18	1 x 8GB2 052-2	8GB1 371-3	1	1 unit	2.290
 8GB1 372-2	• 2-tier 420 x 298 x 140 463 x 410 x 140	2 x 12	2 x 8GB2 052-1	8GB1 372-2	1	1 unit	2.546
		2 x 18	2 x 8GB2 052-2	8GB1 372-3	1	1 unit	3.920
 8GB1 373-3	• 3-tier 655 x 410 x 140	3 x 18	3 x 8GB2 052-2	8GB1 373-3	1	1 unit	5.225
 8GB1 374-3	• 4-tier 878 x 410 x 160	4 x 18	4 x 8GB2 052-2	8GB1 374-3	1	1 unit	8.000

¹⁾ Not included in delivery of the device.

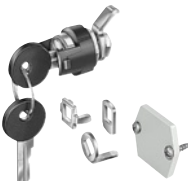
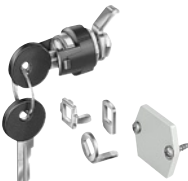
* You can order this quantity or a multiple thereof.

ALPHA SIMBOX Small Distribution Boards

SIMBOX WP: Surface-Mounting Distribution Boards, IP65

Accessories

Selection and ordering data

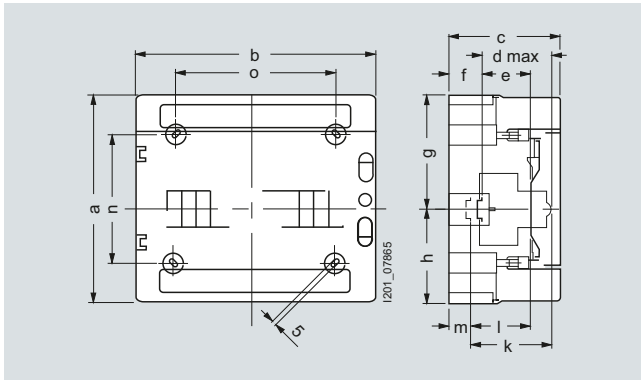
Version			DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	Weight per PU approx. kg
	① Covers •For connection of conduit and cable duct entries •Convenient snap-on mounting on the distribution board			8GB2 051-0 8GB2 051-1		1 20 units 1 20 units	032 032	0.131 0.197	
	MW • 12 • 18								
			② N/PE terminal strips For snapping onto device rack			8GB2 052-0 8GB2 052-1 8GB2 052-2	1 10 units 1 10 units 1 10 units	032 032 032	0.169 0.256 0.391
MW		N							
• 8 • 12 • 18		$1 \times 25 \text{ mm}^2 + 7 \times 10 \text{ mm}^2$ $3 \times 25 \text{ mm}^2 + 10 \times 10 \text{ mm}^2$ $5 \times 25 \text{ mm}^2 + 14 \times 10 \text{ mm}^2$	$1 \times 25 \text{ mm}^2 + 7 \times 10 \text{ mm}^2$ $3 \times 25 \text{ mm}^2 + 10 \times 10 \text{ mm}^2$ $5 \times 25 \text{ mm}^2 + 14 \times 10 \text{ mm}^2$						
			③ Inner partitions Horizontal			8GB2 053-0 8GB2 053-1	1 10 units 1 10 units	032 032	0.055 0.098
MW • 12 • 18									
			⑤ Front covers			8GB2 054-0 8GB2 054-1	1 20 units 1 20 units	032 032	0.083 0.213
MW • 12 • 18									
			⑥ Safety cylinder locks •With key •Made of metal			8GB2 055-0	1 10 units	032	0.045
			Blanking strips •12 MW wide •Color: Gray •Knockouts enable easy cutting to required length •With increased flame protection up to 850°C			8GB4 671	1 10 units	032	0.042

ALPHA SIMBOX Small Distribution Boards

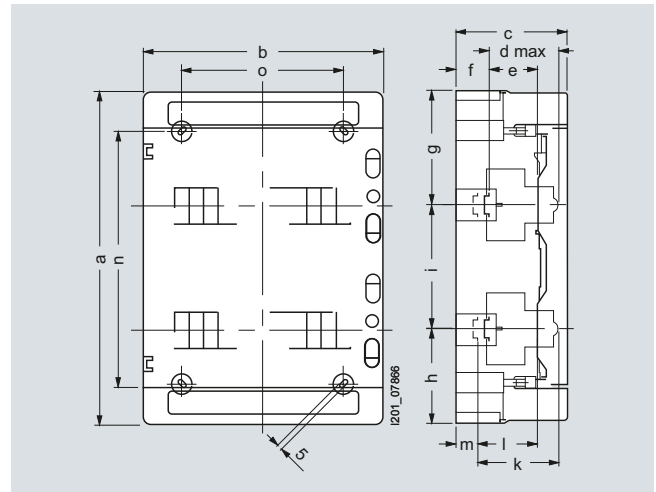
SIMBOX WP: Surface-Mounting Distribution Boards, IP65

Dimensional drawings

Dimensional drawings



1-tier 8GB1 371-0, 8GB1 371-1, 8GB1 371-2, 8GB1 371-3



2-tier 8GB1 372-2, 8GB1 372-3
(3 and 4-tier versions not shown)

MW	Type	Dimensions													
		a	b	c	d _{max}	e	f	g	h	i	k	l	m	n	o
1 × 4	8GB1 371-0	210	148	100	75	48	15	105	105	--	--	--	--	156	87
1 × 8	8GB1 371-1	210	215	100	75	48	15	105	105	--	--	--	--	110	115
1 × 12	8GB1 371-2	260	298	140	75	48	48	117.5	142.5	--	102	75	21	161	200
1 × 18	8GB1 371-3	285	410	140	75	48	48	117.5	142.5	--	102	75	21	185	310
2 × 12	8GB1 372-2	420	298	140	75	48	48	147.5	122.5	150	102	75	21	320	200
2 × 18	8GB1 372-3	463	410	140	75	48	48	155.5	131.5	150	102	75	21	210	293
3 × 18	8GB1 373-3	655	410	140	75	48	48	162.5	142.5	175	102	75	21	363	319
4 × 18	8GB1 374-3	878	410	160	75	48	48	175	155.5	175	102	75	21	394	319

a = Distribution board height

b = Distribution board width

c = Distribution board depth

g = Device mounting depth

h = Wiring space behind the standard mounting rail

ALPHA SIMBOX Small Distribution Boards

SIMBOX WP: Surface-Mounting Distribution Boards, IP65

Notes

ALPHA 160 Distribution Boards

17.2



17.2/2	Introduction
17.2/6	8GK1 surface and flush-mounting distribution boards
17.2/7	Quick-assembly kits for unequipped distribution boards 8GK4 quick-assembly kits for modular installation devices
17.2/8	Assembly kits for unequipped distribution boards Longitudinal stays
17.2/8	Assembly kits for modular installation devices
17.2/9	8GK4 assembly kits
17.2/10	Mounting of fuse switch disconnectors
17.2/10	Accessories

More technical product information:

Service&Support portal:

www.siemens.com/lowvoltage/technical-support

→ Product list:
Technical specifications

→ Entry list:
Updates / Downloads / FAQs
Manuals / Operating instructions /
Characteristic curves / Certificates

ALPHA 160 Distribution Boards

Introduction

Overview

		Devices	Page	Surface-mounting distribution boards	Flush-mounting distribution boards	Rated current A	Cubicle depth mm	Safety class	
								1	2
	ALPHA SIMBOX small distribution boards	SIMBOX XL: Flush-mounting and hollow- wall distribution boards	17.1/4	--	✓	63	88 ¹⁾	--	✓
		SIMBOX XL: Surface-mounting distribution boards IP30	17.1/8	✓	--	63	99	--	✓
		SIMBOX WP: Surface-mounting distribution boards IP65	17.1/10	✓	--	63	100/140/160	--	✓
	ALPHA 160 DIN technology distribution boards	Cubicle, partially equipped	17.2/6	✓	✓	160	140	--	✓
		Unequipped distribution board	17.2/6	✓	✓	160	140	--	✓
	ALPHA 400 DIN technology distribution boards	Unequipped distribution board, flat pack	17.3/9	✓	--	400	210	✓	✓
		Unequipped distribution board, pre-assembled	17.3/10	✓	✓	400	210	✓	✓
	ALPHA 630 DIN technology distribution boards	Unequipped distribution board, flat pack	17.4/7	✓	--	630	210	✓	✓
		Unequipped distribution board, pre-assembled	17.4/7	✓	--	630	210 / 250 / 320	✓	✓
		Unequipped distribution board, pre-assembled, with open side panels	17.4/8	✓	--	630	250 / 320	✓	--
	ALPHA AS 1250 DIN technology distribution boards	Unequipped distribution board, pre-assembled	17.5/7	✓	--	1250	400	✓	--

¹⁾ Mounting depth

ALPHA 160 Distribution Boards

Introduction

Degree of protection	VDE	EN	DIN	IEC	Meets requirements of 8.2.1 - 8.2.7 according to EN 60439-1	Meets requirements of 8.2.9 - 8.2.15 according to EN 60439-3
IP30	DIN VDE 0603	--	DIN 43871	--	--	--
IP30	DIN VDE 0603	--	DIN 43871	--	--	--
IP65	DIN VDE 0603-1, DIN VDE 0660-500/504	EN 60439-1/-3	DIN 43871	IEC 60439-1/-3	✓	✓
IP31 / IP43	DIN VDE 0660-500/504	EN 60439-1/-3	--	IEC 60439-1/-3	✓	✓
IP43	DIN VDE 0660-500/504	EN 60439-1/-3	--	IEC 60439-1/-3	✓	✓
IP31 / IP43 / IP55						
IP43	DIN VDE 0660-500/504	EN 60439-1/-3	--	IEC 60439-1/-3	✓	✓
IP43 / IP55						
IP55						
IP55	DIN VDE 0660-500/504	EN 60439-1/-3	--	Type verification according to IEC 61439-2	✓	✓

ALPHA 160 Distribution Boards

Introduction



System

The modular design of our Siemens distribution board system draws on our long years of experience in the distribution board sector.

This system has been tailored to meet individual requirements for distribution board installation.

The system comprises unequipped distribution boards, partially equipped distribution boards with cabinet-high quick-assembly kits, cabinet-high quick-assembly kits for modular installation devices for fast equipping and wiring, assembly kits for project-related and individual assembly, as well as an extensive range of accessories.

Enclosures

Material:
Electrogalvanized and powder-coated sheet steel.

Sheet thickness:
body 0.75 mm, door 1 mm

Color:
RAL 9016 (traffic white).
Further RAL colors are available on request.

Quick-assembly kits and assembly kits

The assembly kits are made of sendzimir-galvanized sheet steel and are equipped with molded-plastic covers for a wide range of equipping options, e.g. with switching devices and modular installation devices.

The largest switching devices that can be installed in the ALPHA 160 DIN technology distribution boards are the 3NP40 10 and 3NP40 70 fuse switch disconnectors in sizes NH 000 and NH 00 with a rated current of up to 160 A.

Benefits

- Plan and configure quickly, simply and conveniently with the ALPHA SELECT software – also available on the DVD enclosed with the paper catalog.
- Easy planning thanks to modular design
- Ample wiring space behind the standard mounting rail
- Comprehensive range of cabinet-high and frequently used quick-assembly kits and standard assembly kits for individual and project-related assembly
- Easy assembly thanks to keyhole-fastened components and modules with quick-acting locks
- Fast mounting times thanks to quick-assembly kits
- System concept according to DIN, EN and VDE standards
- Solid sheet-steel enclosure
- Degree of protection:
 - Surface mounting: IP43 with door
 - Flush mounting: IP31 with door and integrated masking frame
- Safety class 2 (total insulation)
- High-quality surface finish: distribution boards made of electrogalvanized and powder-coated sheet steel, system components made of sendzimir-galvanized sheet steel, galvanized and transparently chromated small components and screws
- Doors can be hinged on the right or left
- Door opening angle of 170°
- Replaceable locking systems (accessories)
- Front cover with sealable 90° quick-acting locks
- Environmentally-friendly and recyclable plastics.

Application

ALPHA 160 DIN technology distribution boards are used for all applications for which a small distribution board does not provide sufficient equipping or wiring space, e.g. in residential, administrative, non-residential, commercial and industrial buildings.

Its ultra flat design (depth 140 mm) is an extremely useful addition to the Siemens distribution board product range.

The distribution board and its components are of modular design.

With just a few standard components, it is possible to achieve a wide range of project-related mounting and equipping options.

The ALPHA 160 DIN technology distribution board range comprises wall-mounted distribution boards with up to 7 modular installation devices, each with 12 MW per mounting width (250 mm). The standard mounting rail tier spacing is 125 mm or 150 mm. A total of 4 cabinet mounting widths are available, each with an internal dimension of 250 mm.

The distribution boards can be supplied in safety class 2 (total insulation). The standard degree of protection is IP43 for surface-mounting distribution boards and IP31 for flush-mounting distribution boards. The rated current is 160 A.

The modular design of the board enables easy planning, configuration, calculation, ordering and mounting.

Cabinet-high quick-assembly kits or assembly kits that only require a one-size screwdriver for assembly are available for all mountable switching devices and modular installation devices.

Technical specifications

Overvoltage category	III
Rated impulse withstand voltage U_{imp} in kV	6
Clearance and creepage distances	EN 60664-1
Rated insulation voltage U_i in V	690
Rated operational voltage U_o in V AC/DC	690
Rated voltage U_n (40 Hz ... 60 Hz AC) in V	690 for built-in devices
Rated current in A	up to 160
Protective measures	Safety class 2 (total insulation)
Degree of protection acc. to EN 60529	Surface mounting: IP43 with door, flush mounting: IP31 with door and integrated masking frame
Standard mounting rail tier spacing per standard mounting rail tier in mm	125/150
Modular width (MW)	18 mm, 12 MW + 1 mountable MW
Pollution degree	3
Ambient temperature in °C	35 (24-h mean value)
Relative air humidity in %	50 at 40 °C
Test specifications	EN 60439-1/-3
Enclosures	Sheet steel
Mounting dimensions	DIN 43870
Surface	Electrogalvanized and powder-coated
Color	RAL 9016 (traffic white) RAL 7035 (light gray)
• Enclosure ¹⁾	
• Covers	
Lock	Rotary handle - can be replaced by other locking systems if required
Packing material	Shock-proof, environmentally-friendly

¹⁾ Further RAL colors are available on request.

Cabinet dimensions

Surface-mounting distribution boards (external dimensions)		Flush-mounting distribution boards with integrated masking frame (external dimensions)	
Depth 140 mm		Depth 140 mm	
Height	Width	Height	Width
mm	mm	mm	mm
500	300 550	558	358 608
650	300 550	708	358 608
800	300 550	858	358 608
950	300 550	1008	358 608
1100	300 550	1158	358 608

ALPHA 160 Distribution Boards

8GK1 surface and flush-mounting distribution boards

Overview

- Cabinet depth of 140 mm
- Safety class 2 (total insulation)
- Color RAL 9016 (traffic white)
- Enclosure complete with door. Distribution boards with a width of 750/800 mm or more will be supplied with a double door. The integral rotary handle can be replaced with a different type of locking system, if preferred.
- Flanges: per panel width: one 2-component flange each at the top and bottom
- For distribution boards with built-in distribution board panels: Tier spacing of 125 mm with N/PE bar per panel width
- Flush-mounting distrib. board with integrated masking frame.

Note: Wall anchors are included in delivery with flush-mounting distribution boards.

Selection and ordering data

Internal/external dimensions		Panel width	Tiers/MW	DT	Surface-mounting distribution boards, IP43	PU (UNIT, SET, M)	PS* (P. unit)	PG DT	Flush-mounting distribution boards, IP31	PU (UNIT, SET, M)	PS* (P. unit)	PG
Height	Width				Order No.				Order No.			
mm	mm											
Unequipped distribution boards												
	450/500	250/300		--	8GK1 032-1KK11	1	1 unit	039	8GK1 031-1KK11	1	1 unit	039
		500/550			8GK1 032-1KK21	1	1 unit	039	8GK1 031-1KK21	1	1 unit	039
		750/800			8GK1 032-1KK31	1	1 unit	039	--			
	600/650	250/300		--	8GK1 032-2KK11	1	1 unit	039	8GK1 031-2KK11	1	1 unit	039
		500/550			8GK1 032-2KK21	1	1 unit	039	8GK1 031-2KK21	1	1 unit	039
		750/800			8GK1 032-2KK31	1	1 unit	039	--			
		1000/1050			8GK1 032-2KK41	1	1 unit	039	--			
	750/800	250/300		--	8GK1 032-3KK11	1	1 unit	039	8GK1 031-3KK11	1	1 unit	039
		500/550			8GK1 032-3KK21	1	1 unit	039	8GK1 031-3KK21	1	1 unit	039
		750/800			8GK1 032-3KK31	1	1 unit	039	--			
		1000/1050			8GK1 032-3KK41	1	1 unit	039	--			
	900/950	250/300		--	8GK1 032-4KK11	1	1 unit	039	8GK1 031-4KK11	1	1 unit	039
		500/550			8GK1 032-4KK21	1	1 unit	039	8GK1 031-4KK21	1	1 unit	039
		750/800			8GK1 032-4KK31	1	1 unit	039	--			
		1000/1050			8GK1 032-4KK41	1	1 unit	039	--			
	1050/1100	250/300		--	8GK1 032-5KK11	1	1 unit	039	8GK1 031-5KK11	1	1 unit	039
		500/550			8GK1 032-5KK21	1	1 unit	039	8GK1 031-5KK21	1	1 unit	039
		750/800			8GK1 032-5KK31	1	1 unit	039	--			
		1000/1050			8GK1 032-5KK41	1	1 unit	039	--			
Distribution boards with built-in distribution board panels												
	450/500	250/300		3/36	8GK1 052-1KK11	1	1 unit	039	--			
		500/550		6/72	8GK1 052-1KK21	1	1 unit	039	--			
		750/800		9/108	8GK1 052-1KK31	1	1 unit	039	--			
	600/650	250/300		4/48	8GK1 052-2KK11	1	1 unit	039	--			
		500/550		8/96	8GK1 052-2KK21	1	1 unit	039	--			
		750/800		12/144	8GK1 052-2KK31	1	1 unit	039	--			
		1000/1050		16/192	8GK1 052-2KK41	1	1 unit	039	--			
	750/800	250/300		5/60	8GK1 052-3KK11	1	1 unit	039	--			
		500/550		10/120	8GK1 052-3KK21	1	1 unit	039	--			
		750/800		15/180	8GK1 052-3KK31	1	1 unit	039	--			
		1000/1050		20/240	8GK1 052-3KK41	1	1 unit	039	--			
	900/950	250/300		6/72	8GK1 052-4KK11	1	1 unit	039	--			
		500/550		12/144	8GK1 052-4KK21	1	1 unit	039	--			
		750/800		18/216	8GK1 052-4KK31	1	1 unit	039	--			
		1000/1050		24/288	8GK1 052-4KK41	1	1 unit	039	--			
	1050/1100	250/300		7/84	8GK1 052-5KK11	1	1 unit	039	--			
		500/550		14/168	8GK1 052-5KK21	1	1 unit	039	--			
		750/800		21/252	8GK1 052-5KK31	1	1 unit	039	--			
		1000/1050		28/336	8GK1 052-5KK41	1	1 unit	039	--			

Quick-assembly kits and assembly kits: [17.2/7](#). Accessories: [17.2/10](#).

ALPHA 160 Distribution Boards

Quick-Assembly Kits for Unequipped Distribution Boards

**8GK4 quick-assembly kits
for modular installation devices**

Overview

Quick-assembly kits are pre-assembled cabinet-high system components for the most common applications. Such kits already include the longitudinal stays and can be simply snapped into the unequipped distribution boards of the respective mounting height, thanks to the time-saving quick-locking technology.

Selection and ordering data

	External dimensions		Tiers/ MW	DT	Quick-assembly kits, for modular installation devices										
	Height	Width			Tier spacing of 125 mm, with N/PE bar		PU (UNIT, SET, M)	PS*/ P. unit	PG	DT	Tier spacing of 150 mm, without N/PE bar		PU (UNIT, SET, M)	PS*/ P. unit	PG
					Order No.	Price per PU					Order No.	Price per PU			
	mm	mm													
 8GK4 051-3KK11	450	250	3/36		8GK4 001-3KK11		1	1 unit	039		8GK4 051-3KK11		1	1 unit	039
 8GK4 051-4KK11	600	250	4/48		8GK4 001-4KK11		1	1 unit	039		8GK4 051-4KK11		1	1 unit	039
 8GK4 051-5KK11	750	250	5/60		8GK4 001-5KK11		1	1 unit	039		8GK4 051-5KK11		1	1 unit	039
 8GK4 051-6KK11	900	250	6/72		8GK4 001-6KK11		1	1 unit	039		8GK4 051-6KK11		1	1 unit	039
 8GK4 051-7KK11	1050	250	7/84		8GK4 001-7KK11		1	1 unit	039		8GK4 051-7KK11		1	1 unit	039

The quick-assembly kits with a width of 250 mm are equipped with 7.5 mm standard mounting rails.

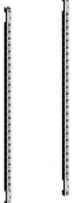
Accessories: [17.2/10](#).

ALPHA 160 Distribution Boards

Assembly Kits for Unequipped Distribution Boards

Longitudinal stays

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 8GK4 851-3KK00	Longitudinal stays - To mount the assembly kits in unequipped distribution boards, 2 longitudinal stays are required for each assembly kit width 1 set = 2 stays					
	Height in mm					
	450 600 750					
	900 1050					
	8GK4 851-3KK00 8GK4 851-4KK00 8GK4 851-5KK00 8GK4 851-6KK00 8GK4 851-7KK00					
				1	1 set	039
				1	1 set	039
				1	1 set	039
				1	1 set	039
				1	1 set	039

Assembly kits for modular installation devices

Overview

- Assembly kits for individual and project-related assembly, comprising: device racks, front cover including supports, screws and mounting accessories
- The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports.

Note: For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately ([see page 17.2/8](#)).

Selection and ordering data

	External dimensions		Tiers/ MW	DT	Assembly kits, for modular installation devices								PU (UNIT, SET, M)	PS*/ P. unit	PG	
	Height	Width			Tier spacing of 125 mm, without N/PE bar		PU (UNIT, SET, M)	PS*/ P. unit	PG	DT	Tier spacing of 150 mm, without N/PE bar					
					Order No.	Price per PU					Order No.	Price per PU				
	mm	mm														
 8GK4 351-1KK21	150	250 500	1/12 1/24		-- --							8GK4 351-1KK11 8GK4 351-1KK21		1 1	1 unit 1 unit	039 039
 8GK4 351-2KK21	300	250 500	2/24 2/48		8GK4 301-2KK11 8GK4 301-2KK21			1 1	1 unit 1 unit	039 039		8GK4 351-2KK11 8GK4 351-2KK21		1 1	1 unit 1 unit	039 039
 8GK4 351-3KK21	450	250 500	3/36 3/72		8GK4 301-3KK11 8GK4 301-3KK21			1 1	1 unit 1 unit	039 039		8GK4 351-3KK11 8GK4 351-3KK21		1 1	1 unit 1 unit	039 039
 8GK4 351-4KK21	600	250 500	4/48 4/96		8GK4 301-4KK11 8GK4 301-4KK21			1 1	1 unit 1 unit	039 039		8GK4 351-4KK11 8GK4 351-4KK21		1 1	1 unit 1 unit	039 039

The assembly kits with a width of 250 mm and 500 mm are equipped with 7.5 mm standard mounting rails.

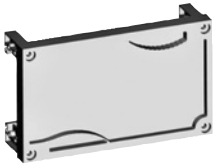
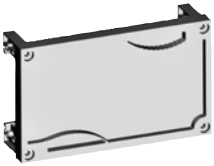
For accessories [see page 17.2/10](#).

ALPHA 160 Distribution Boards

Assembly Kits for Unequipped Distribution Boards

8GK4 assembly kits

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG																									
 8GK4 401-1KK11 Assembly kits for horizontal terminal blocks - Terminal blocks with graded insulation design - Closed - Assembly kits for individual and project-related assembly, comprising: device racks, front cover including supports, screws and mounting accessories - With a front cover (for unequipped panels is sealable as standard and the quick-acting locking connections facilitate fast and reliable fixation to the supports) <table><tr><th>Height in mm (external dimensions)</th><th>Width in mm (external dimensions)</th></tr><tr><td>150</td><td>250 500</td></tr><tr><td>300</td><td>250 500</td></tr></table> Note - For assembly kits with a width of 500 mm it is recommended to install a vertical profile bar. - For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.2/8).							Height in mm (external dimensions)	Width in mm (external dimensions)	150	250 500	300	250 500																			
Height in mm (external dimensions)	Width in mm (external dimensions)																														
150	250 500																														
300	250 500																														
 8GK4 451-2KK11 Assembly kits with mounting plates - Closed - Assembly kits for individual and project-related assembly, comprising: mounting plate, front cover including supports, screws and mounting accessories - With a front cover (for unequipped panels is sealable as standard and the quick-acting locking connections facilitate fast and reliable fixation to the supports) <table><tr><th colspan="2">External dimensions (mm): assembly kit</th><th colspan="2">Mounting plate dimensions in mm</th></tr><tr><th>Height</th><th>Width</th><th>Height</th><th>Width</th></tr><tr><td>300</td><td>250</td><td>245</td><td>207.5</td></tr><tr><td>450</td><td></td><td>395</td><td></td></tr><tr><td>600</td><td></td><td>545</td><td></td></tr></table> Note For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.2/8).							External dimensions (mm): assembly kit		Mounting plate dimensions in mm		Height	Width	Height	Width	300	250	245	207.5	450		395		600		545						
External dimensions (mm): assembly kit		Mounting plate dimensions in mm																													
Height	Width	Height	Width																												
300	250	245	207.5																												
450		395																													
600		545																													
 8GK4 501-1KK11 Assembly kits for unequipped panels - Assembly kits for individual and project-related assembly, comprising: front cover including supports, screws and mounting accessories - With a front cover (for unequipped panels is sealable as standard and the quick-acting locking connections facilitate fast and reliable fixation to the supports) <table><tr><th>Height in mm (external dimensions)</th><th>Width in mm (external dimensions)</th></tr><tr><td>150</td><td>250 500</td></tr><tr><td>300</td><td>250 500</td></tr><tr><td>450</td><td>250 500</td></tr><tr><td>600</td><td>250 500</td></tr></table> Note For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.2/8).							Height in mm (external dimensions)	Width in mm (external dimensions)	150	250 500	300	250 500	450	250 500	600	250 500															
Height in mm (external dimensions)	Width in mm (external dimensions)																														
150	250 500																														
300	250 500																														
450	250 500																														
600	250 500																														
8GK4 401-1KK11 8GK4 401-1KK21 11 unit039 8GK4 401-2KK11 8GK4 401-2KK21 11 unit039 8GK4 401-3KK11 8GK4 401-3KK21 11 unit039 8GK4 401-4KK11 8GK4 401-4KK21 11 unit039																															

For accessories [see page 17.2/10 ff.](#)

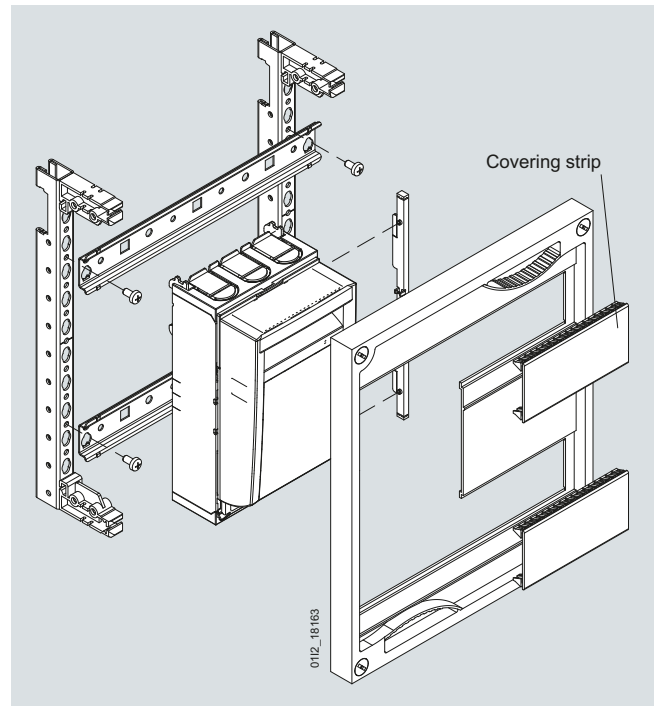
ALPHA 160 Distribution Boards

Mounting of fuse switch disconnectors

Overview

Installation of the size 000 and 00 3NP1 fuse switch disconnectors in the ALPHA 160 DIN technology distribution board is implemented using the assembly kits for modular installation devices. Here the fuse switch disconnector is mounted between the standard mounting rails and the front cover on the modular installation devices is cut out appropriately ([see graphic](#)).

For further information on 3NP1 fuse switch disconnectors please [see Catalog LV 10.1, chapter 7](#).



Accessories

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
Unequipped distribution boards and partially equipped distribution boards						
 8GK9 912-0KK10 Wall-mounting rails - For all wall-mounted distribution boards - The distribution board can be quickly and precisely mounted by a single person Length in mm 250 500 750 1000 1250		8GK9 912-0KK10 8GK9 912-0KK20 8GK9 912-0KK30 8GK9 912-0KK40 8GK9 912-0KK50		11 unit039 11 unit039 11 unit039 11 unit039 11 unit039		
Cabinet mounting lugs, flat						
Versions - For mounting and fixing the cabinet directly against the wall without spacing 1 set = 4 lugs incl. screws - For linking two cabinets and for mounting and fixing directly against the wall without spacing 8GK9 910-0KK36 also required for the ends of a series of cabinets 1 set = 2 lugs incl. screws		8GK9 910-0KK36 8GK9 910-0KK37		15 sets039 11 set039		
Hollow-wall sets For fixing flush-mounting distribution boards in hollow walls			8GK9 910-0KK28		11 set039	

ALPHA 160 Distribution Boards

Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 8GK9 560-0KK04	Locking systems					
	Versions					
	- Standard locking devices - Made of plastic - Color: black - With rotary handle for wall-mounted distribution board, degree of protection IP43 - Cannot be retrofitted to other locking devices - Rotary handle locking devices for profile cylinders - For wall-mounted distribution boards with degree of protection IP43/IP55, with mounting option for a profile semicylinder (length 40 mm) - Suitable for E012 or Senat tumbler - Color: black - Lockable rotary handles - Incl. E012 lock and two keys		8GK9 560-0KK04	1	1 unit	039
			8GK9 560-0KK06	1	1 unit	039
			8GK9 560-0KK13	1	1 unit	039
Accessories						
Spare key for E012 lock		8GF9 390-2	1	1 unit	042	
 8GK9 560-0KK07  8GK9 560-0KK08  8GK9 560-0KK10	Profile semicylinders					
	Versions					
	With E012 lock and two keys		8GK9 560-0KK07	1	1 unit	039
	With Senat tumbler and two keys		8GK9 560-0KK08	1	1 unit	039
With 3-mm pin as double-bit lock		8GK9 560-0KK10	1	1 unit	039	
 8GK9 000-0KK02  8GD9 084	2-component flanges					
	- For fast and correct wiring - With 44 possible knockouts - Comprising 2 elastic components		8GK9 000-0KK02	1	1 unit	039
Siemens nameplates						
- Made of aluminum - Self-adhesive - Color: petrol		8GD9 084	1	1 unit	042	
Paint sticks						
- Color RAL 9016 (traffic white) 12 g		8GK9 910-0KK15	1	1 unit	039	
Paint spray cans						
- Color RAL 9016 (traffic white) 400 ml		8GK9 910-0KK17	1	1 unit	039	

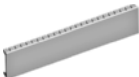
ALPHA 160 Distribution Boards

Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
	Partitions - For the visual and spatial separation of different potentials - Material plastic						
	Versions - Vertical - Height 450 mm - Height 600 mm - Height 750 mm - Height 900 mm - Height 1050 mm		8GK9 001-3KK01 8GK9 001-4KK01 8GK9 001-5KK01 8GK9 001-6KK01 8GK9 001-7KK01		1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	039 039 039 039 039
	8GK9 001-3KK01						
	- Horizontal - Width 250 mm		8GK9 002-0KK10		1	1 unit	039
	8GK9 002-0KK10						
	N/PE bars - For mounting on longitudinal stays, with 2 x 29 clamping points, 16 mm² 250 mm long		8GK9 910-0KK10		1	1 unit	039
	8GK9 910-0KK10						
	N/PE bars as plug-in terminals						
	Versions - Each with six screw terminals from 2.5 to 16 mm² and 21 plug-in connections from 1.5 to 4 mm² for mounting on longitudinal stays at a 30° inclination - With six screw terminals from 2.5 to 16 mm² and 21 plug-in connections from 1.5 to 4 mm², for PE bar and one N bar each with two screw terminals from 2.5 to 16 mm² and 10 plug-in connections from 1.5 to 4 mm², for mounting on longitudinal stays at a 30° inclination		8GK9 910-0KK11 8GK9 910-0KK12		1 1	1 unit 1 unit	039 039
	8GK9 910-0KK11						
	N terminals - For snap-on mounting onto the standard mounting rail - For distributing the neutral conductor when using several RCBBs 2 x screw terminal, conductor cross-section max. 16 mm² 14 x plug-in terminal, conductor cross-section max. 4 mm²	▶	8GS4 034-1		1	1 unit	043
	8GS4 034-1						
	PE terminals - For snap-on mounting onto the standard mounting rail 2 x screw terminal, conductor cross-section max. 16 mm² 14 x plug-in terminal, conductor cross-section max. 4 mm²	▶	8GS4 034-2		1	1 unit	043
	8GS4 034-2						
	N/PE terminals - For snap-on mounting onto the standard mounting rail - For distributing the neutral conductor when using several RCBBs 1 x screw terminal, conductor cross-section max. 16 mm² ¹⁾ 7 x plug-in terminal, conductor cross-section max. 4 mm² ¹⁾	▶	8GS4 034-3		1	1 unit	043
	8GS4 034-3						
	Footnote ¹⁾ Per PE or N potential.						

ALPHA 160 Distribution Boards

Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
 N/N terminals - For snap-on mounting onto the standard mounting rail - For distributing the neutral conductor when using several RCBBs 1 × screw terminal, conductor cross-section max. 16 mm² ¹⁾ 7 × plug-in terminal, conductor cross-section max. 4 mm² ¹⁾ Footnote ¹⁾ Per PE or N potential.	▶	8GS4 034-4		1	1 unit	043
 Supports for front covers - Short version - Material plastic 1 set = 4 supports		8GK9 910-0KK20		1	5 sets	039
 Blanking strips Color RAL 7035 (light gray) Versions - For 12 MW (1 MW = 18 mm) - Length 1 m, w/o pressure-relief joint, to cut to length		8GK9 910-0KK00 8GK9 910-0KK01		1 1	10 units 1 unit	039 039
 ALPHA assembly tools - For supports - Short and long version - With ergonomic handle for supports		8GK9 910-0KK27		1	1 unit	039
 Standard mounting rails, lowered Width 250 mm 500 mm 750 mm		8GK9 910-0KK35 8GK9 910-0KK40 8GK9 910-0KK41		1 1 1	1 unit 1 set 1 set	039 039 039

ALPHA 160 Distribution Boards

Notes

ALPHA 400

Distribution Boards

17.3



17.3/2 Introduction

17.3/9 Unequipped distribution boards (flat pack delivery)

8GK1 surface-mounting distribution boards, IP43

17.3/10 Unequipped distribution boards, pre-assembled

8GK1 surface-mounting distribution boards, IP43

17.3/11 8GK1 surface-mounting distribution boards, IP55

17.3/12 8GK1 flush-mounting distribution boards, IP31

17.3/13 Quick-assembly kits for unequipped distribution boards

8GK4 quick-assembly kits for modular installation devices

17.3/15 8GK4 quick-assembly kits for modular installation devices and terminal blocks

17.3/16 Longitudinal stays

17.3/17 Assembly kits for unequipped distribution boards

17.3/24 Accessories

More technical product information:

Service&Support portal:

www.siemens.com/lowvoltage/technical-support

→ Product list:
Technical specifications

→ Entry list:
Updates / Downloads / FAQs
Manuals / Operating instructions /
Characteristic curves / Certificates

ALPHA 400 Distribution Boards

Introduction

Overview

		Devices	Page	Surface-mounting distribution boards	Flush-mounting distribution boards	Rated current A	Cubicle depth mm	Safety class	
								1	2
	ALPHA SIMBOX small distribution boards	SIMBOX XL: Flush-mounting and hollow- wall distribution boards	17.1/4	--	✓	63	88 ¹⁾	--	✓
		SIMBOX XL: Surface-mounting distribution boards IP30	17.1/8	✓	--	63	99	--	✓
		SIMBOX WP: Surface-mounting distribution boards IP65	17.1/10	✓	--	63	100/140/160	--	✓
	ALPHA 160 DIN technology distribution boards	Cubicle, partially equipped	17.2/6	✓	✓	160	140	--	✓
		Unequipped distribution board	17.2/6	✓	✓	160	140	--	✓
	ALPHA 400 DIN technology distribution boards	Unequipped distribution board, flat pack	17.3/9	✓	--	400	210	✓	✓
		Unequipped distribution board, pre-assembled	17.3/10	✓	✓	400	210	✓	✓
	ALPHA 630 DIN technology distribution boards	Unequipped distribution board, flat pack	17.4/7	✓	--	630	210	✓	✓
		Unequipped distribution board, pre-assembled	17.4/7	✓	--	630	210 / 250 / 320	✓	✓
		Unequipped distribution board, pre-assembled, with open side panels	17.4/8	✓	--	630	250 / 320	✓	--
	ALPHA AS 1250 DIN technology distribution boards	Unequipped distribution board, pre-assembled	17.5/7	✓	--	1250	400	✓	--

¹⁾ Mounting depth

ALPHA 400 Distribution Boards

Introduction

Degree of protection	VDE	EN	DIN	IEC	Meets requirements of 8.2.1 - 8.2.7 according to EN 60439-1	Meets requirements of 8.2.9 - 8.2.15 according to EN 60439-3
IP30	DIN VDE 0603	--	DIN 43871	--	--	--
IP30	DIN VDE 0603	--	DIN 43871	--	--	--
IP65	DIN VDE 0603-1, DIN VDE 0660-500/504	EN 60439-1/-3	DIN 43871	IEC 60439-1/-3	✓	✓
IP31 / IP43	DIN VDE 0660-500/504	EN 60439-1/-3	--	IEC 60439-1/-3	✓	✓
IP43	DIN VDE 0660-500/504	EN 60439-1/-3	--	IEC 60439-1/-3	✓	✓
IP31 / IP43 / IP55						
IP43	DIN VDE 0660-500/504	EN 60439-1/-3	--	IEC 60439-1/-3	✓	✓
IP43 / IP55						
IP55						
IP55	DIN VDE 0660-500/504	EN 60439-1/-3	--	Type verification according to IEC 61439-2	✓	✓

ALPHA 400 Distribution Boards

Introduction



Quick-assembly kits and assembly kits

The assembly kits are made of sendzimir-galvanized sheet steel and are equipped with molded-plastic covers for a wide range of equipping options, e.g. with switching devices and modular installation devices.

The largest switching devices that can be installed in the ALPHA 400 DIN technology distribution boards are Siemens switching devices with a maximum rated current of 400 A.

Cabinet dimensions

All dimensions are stated in mm

- Height (internal/external dimensions): 600/650, 750/800, 900/950, 1050/1100, 1200/1250, 1350/1400
- Width (internal/external dimensions): 250/300, 500/550, 750/800, 1000/1050, 1250/1300
- Depth (external dimension): 210
- Assembly kits in panel-size grid dimensions height × width: 150 × 250.

System

The modular design of our Siemens distribution board system draws on our long years of experience in the distribution board sector.

This system has been tailored to meet individual requirements for distribution board installation.

The system comprises flat-packed unequipped distribution boards for surface-mounting distribution boards (delivery in individual parts for self-assembly), pre-assembled unequipped distribution boards for surface-mounting and flush-mounting distribution boards, cabinet-high quick-assembly kits for ultra fast equipping and wiring, assembly kits for project-related and individual assembly - as well as an extensive range of accessories.

Enclosures

- Material: Electrogalvanized and powder-coated sheet steel
- Sheet thickness, degree of protection IP43: body 0.75 mm, door 1 mm
- Sheet thickness, degree of protection IP55: body 0.75 mm, door 1 mm
- Color: RAL 9016 (traffic white). Further RAL colors are available on request.

Flat pack

The new delivery option for the ALPHA distribution board product range offered by Siemens is an innovation.

"Flat pack" means that the distribution boards are delivered in the form of individual parts packaged in cardboard boxes.

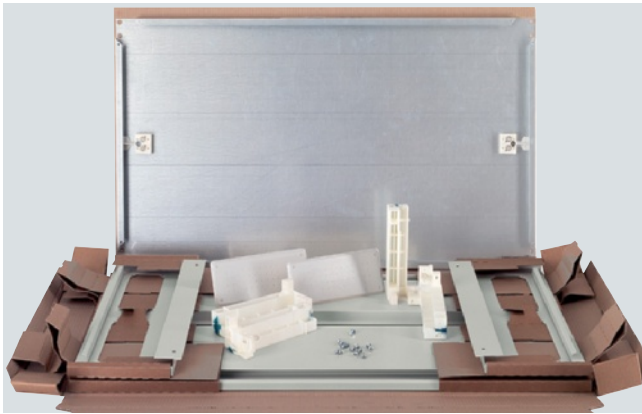
The cardboard boxes contain the individual parts, brief mounting instructions and all mounting accessories.

Only a few manual steps are required to assemble the individual system components to create wall or floor-mounted distribution boards of degree of protection IP43.

The only tool required for such assembly is a one-size screwdriver.

This offers clear advantages and customer benefits: a considerable reduction in the delivery volume and storage space required.

It goes without saying that the distribution boards can also be delivered in a pre-assembled form.

**Benefits**

- Plan and configure quickly, simply and conveniently with the ALPHA SELECT software – also available on the DVD enclosed with the paper catalog.
- Delivery options:
 - Flat pack (assembly kit for self-assembly)
 - Unequipped distribution board - pre-assembled
 - The cabinet-high quick-assembly kits can be mounted directly onto the platform (rear panel)
 - **Additional mounting stays are required for mounting the assembly kits! 2 longitudinal stays per panel width must be ordered separately for the assembly kits.**
- Easy planning thanks to modular design
- Ample wiring space behind the standard mounting rail
- Comprehensive range of cabinet-high and frequently used quick-assembly kits and standard assembly kits for individual and project-related assembly
- Easy assembly thanks to keyhole-fastened components and modules with quick-acting locks
- Fast mounting times thanks to quick-assembly kits
- System concept according to DIN, EN and VDE standards
- Solid sheet-steel enclosure
- Degree of protection: surface-mounting version: IP43 with door, IP55 with door; flush-mounting version: IP31 with door and integrated masking frame
- Safety class 1 (protective conductor connection) or safety class 2 (total insulation)
- High-quality surface finish: distribution boards made of electrogalvanized and powder-coated sheet steel, system components made of sendzimir-galvanized sheet steel, galvanized and transparently chromated small components and screws
- Doors can be hinged on the right or left
- Door opening angle of 180°
- Replaceable locking systems (accessories)
- Front cover with sealable 90° quick-acting locks
- Environmentally-friendly and recyclable plastics.

Application

The ALPHA 400 DIN technology distribution boards are used for all applications for which the ALPHA 160 DIN technology distribution boards do not provide sufficient equipping or wiring space, e.g. in residential, administrative, non-residential, commercial and industrial buildings.

With a mounting depth of 210 mm, it ideally supplements the Siemens distribution board product ranges.

The distribution board and its components are of modular design.

With just a few standard components, it is possible to achieve a wide range of project-related mounting and equipping options.

The ALPHA 400 DIN technology distribution board range comprises wall-mounted distribution boards with up to 9 modular installation devices, each with 12 MW per mounting width (250 mm). The standard mounting rail tier spacing is 125 mm or 150 mm. A total of 5 cabinet mounting widths are available, each with an internal dimension of 250 mm.

The distribution boards can be supplied in safetyclass 1 (protective conductor connection) or safety class 2 (total insulation). The standard degree of protection for surface-mounting distribution boards is IP43 and IP55. The standard degree of protection for flush-mounting distribution boards is IP31. The rated current is 400 A.

The modular design of the board enables easy planning, configuration, calculation, ordering and mounting.

Cabinet-high quick-assembly kits or assembly kits that only require a one-size screwdriver for assembly are available for all mountable switching devices and modular installation devices.

ALPHA 400 Distribution Boards

Introduction

Design

Platform concept

A further innovation of the ALPHA distribution board product range is the "platform concept", which means that all supporting built-in components are mounted directly onto the platform (rear panel).

The covering parts (side plates, roofing plates, base plates and doors) are either assembled immediately or at a later point in time, irrespective of the assembly kits. The fact that the quick-assembly kits and assembly kits can be equipped and wired with modular installation devices and without an enclosure is an additional advantage.

The fully wired assembly kits can then be placed on the platform and secured to the rear panel with a quick-acting lug. In addition, the quick-assembly kits or assembly kits can optionally be

secured with a screw, which is included in delivery. The enclosure covering parts such as top and base plate as well as side plates are then mounted.

The available wiring space can be optimally utilized as the rear panels of the modular installation devices can be manually accessed from all four sides.

Another advantage of the platform concept is that the covering parts will not be scratched or damaged when wiring the distribution board.

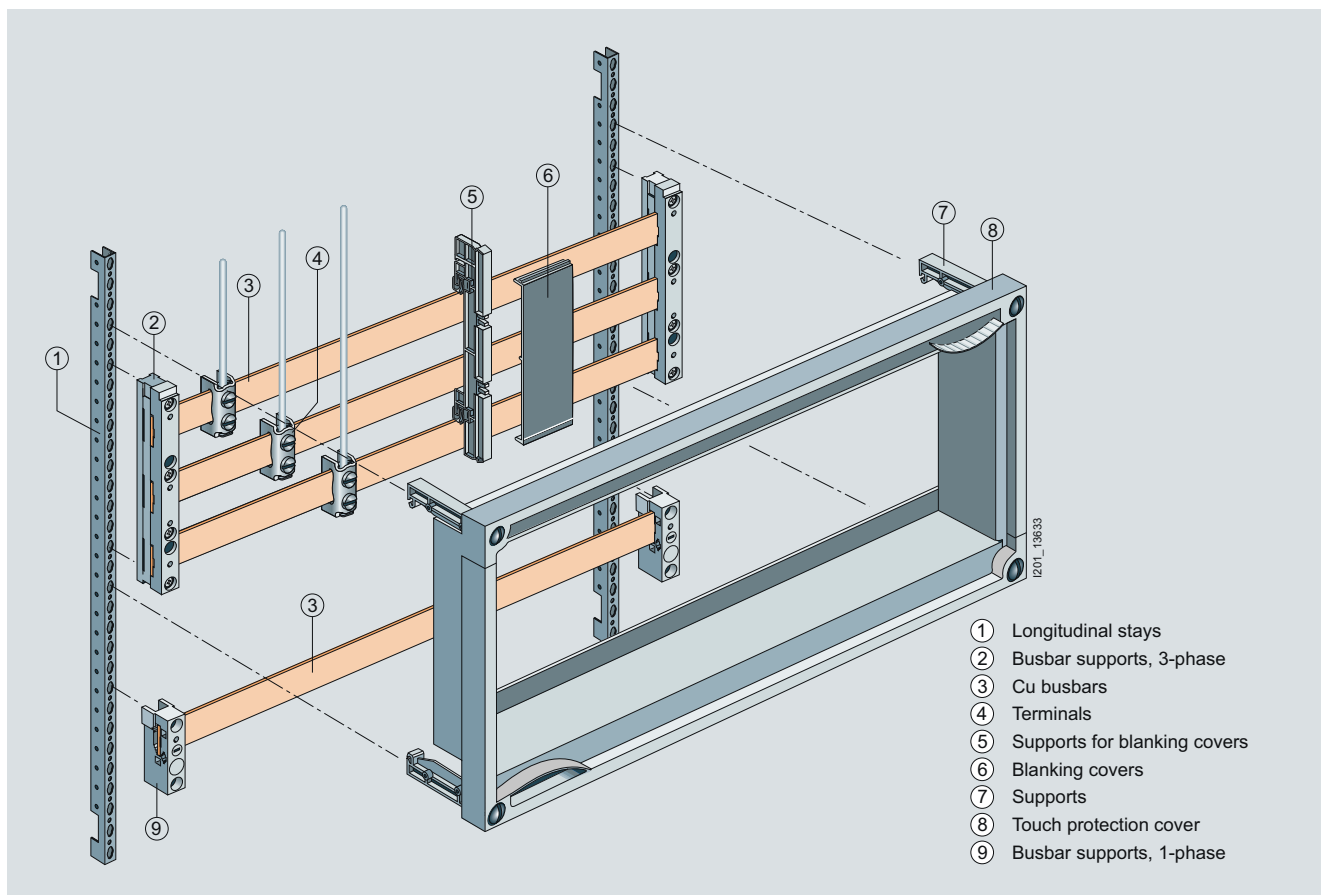
During the mounting phase, the platform can be optionally mounted with or without the covering parts and doors. The completely equipped and wired assembly kits or quick-assembly kits are then simply click-fastened onto the platform or in the pre-assembled unequipped distribution board.



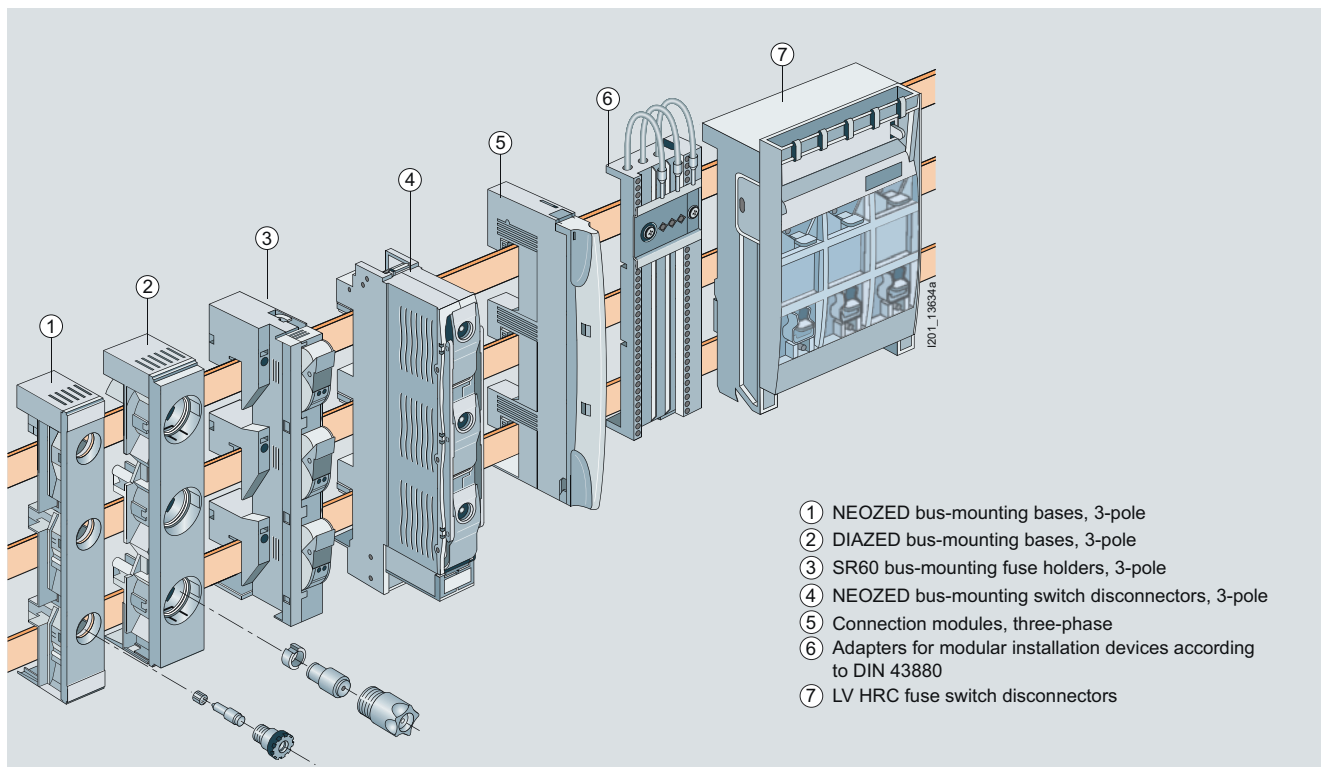
The fully equipped and wired quick-assembly kits or assembly kits are fastened directly onto the platform (rear panel).

The front covers can now be mounted.

Finally the covering parts such as top, base and side plates are then mounted.



Distribution board components for the SR60 busbar system, 60 mm



Built-in components for the SR60 busbar system, 60 mm

ALPHA 400 Distribution Boards

Introduction

Technical specifications

Overvoltage category	III
Rated impulse withstand voltage U_{imp} in kV	6
Clearance and creepage distances	EN 60664-1
Rated insulation voltage U_i in V	690
Rated operational voltage U_o in V AC/DC	690
Rated voltage U_n (40 Hz ... 60 Hz AC) in V	690 for built-in devices
Rated current in A	up to 400
Rated peak short-circuit current I_{pk} in kA	Up to 76 (3-pole) ²⁾
Rated short-time current I_{cw} in kA	34, conduction interval of 1 s
Protective measures	Safety class 1 (protective conductor connection) Safety class 2 (total insulation)
Number of conductors in the busbar run	4/5
Degree of protection acc. to EN 60529	Surface mounting: IP43 with door, IP55 with door Flush mounting: IP31 with door and integrated masking frame
Standard mounting rail tier spacing per standard mounting rail tier in mm	125/150
Modular width (MW)	18 mm, 12 MW + 1 mountable MW
Pollution degree	3
Ambient temperature in °C	35 (24-h mean value)
Relative air humidity in %	50 at 40 °C
Test specifications	EN 60439-1/3 (VDE 0660 Part 500/504), DIN VDE 0603-1
Enclosures	Sheet steel
Mounting dimensions	DIN 43870
Surface	Electrogalvanized and powder-coated
Color	RAL 9016 (traffic white) RAL 7035 (light gray)
• Enclosure ¹⁾	
• Covers	
Lock	Rotary handle - can be replaced by other locking systems if required
Packing material	Shock-proof, environmentally-friendly

¹⁾ Further RAL colors are available on request.

²⁾ Busbar support spacing: 250 mm, Cu busbars 30 mm × 10 mm.

Cabinet dimensions

Surface-mounting distribution boards (external dimensions)		Flush-mounting distribution boards with integrated masking frame (external dimensions)		Recess dimensions for flush-mounting distribution boards	
Depth 210 mm		Depth 210 mm		Depth 215 mm	
Height mm	Width mm	Height mm	Width mm	Height mm	Width mm
800	550 800	858	608 858	860	610 860
950	550 800	1008	608 858	1010	610 860
1250	550 800	1308	608 858	1310	610 860
1400	550 800	1458	608 858	1460	610 860

ALPHA 400 Distribution Boards

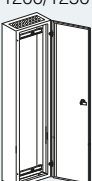
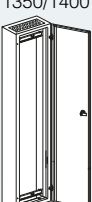
Unequipped Distribution Boards (Flat Pack Delivery)

8GK1 surface-mounting distribution boards, IP43

Overview

- Delivery options:
 - Flat pack (assembly kit for self-assembly)
 - Unequipped distribution board - pre-assembled
 - The cabinet-high quick-assembly kits and the assembly kits can be mounted directly onto the platform (rear panel)
 - **Additional mounting stays are required for mounting the assembly kits! 2 longitudinal stays per panel width must be ordered separately for the assembly kits.**
- Cabinet depth of 210 mm
- Degree of protection IP43
- Safety class 1 (protective conductor connection) or safety class 2 (total insulation)
- Color RAL 9016 (traffic white)
- Unassembled enclosure with unassembled enclosed door and rotary handle, which can be replaced by other locking systems. Distribution boards with a width of 750 mm/800 mm or more will be supplied with a double door.
- Flanges: One 1-component flange at the bottom and one 2-component flange at the top per panel width.

Selection and ordering data

Internal/external dimensions		Panel width	DT	Surface-mounting distribution boards, IP43										
Height	Width			Safety class 1	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	DT	Safety class 2	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
mm	mm			Order No.						Order No.				
 I201_084453	250/300			8GK1 102-2KK12		1	1 unit	039		8GK1 112-2KK12		1	1 unit	039
	500/550			8GK1 102-2KK22		1	1 unit	039		8GK1 112-2KK22		1	1 unit	039
	750/800			8GK1 102-2KK32		1	1 unit	039		8GK1 112-2KK32		1	1 unit	039
	1000/1050			8GK1 102-2KK42		1	1 unit	039		8GK1 112-2KK42		1	1 unit	039
 I201_084454	250/300			8GK1 102-3KK12		1	1 unit	039		8GK1 112-3KK12		1	1 unit	039
	500/550			8GK1 102-3KK22		1	1 unit	039		8GK1 112-3KK22		1	1 unit	039
	750/800			8GK1 102-3KK32		1	1 unit	039		8GK1 112-3KK32		1	1 unit	039
	1000/1050			8GK1 102-3KK42		1	1 unit	039		8GK1 112-3KK42		1	1 unit	039
 I201_084455	250/300			8GK1 102-4KK12		1	1 unit	039		8GK1 112-4KK12		1	1 unit	039
	500/550			8GK1 102-4KK22		1	1 unit	039		8GK1 112-4KK22		1	1 unit	039
	750/800			8GK1 102-4KK32		1	1 unit	039		8GK1 112-4KK32		1	1 unit	039
	1000/1050			8GK1 102-4KK42		1	1 unit	039		8GK1 112-4KK42		1	1 unit	039
	1250/1300			8GK1 102-4KK52		1	1 unit	039		8GK1 112-4KK52		1	1 unit	039
 I201_084456	250/300			8GK1 102-5KK12		1	1 unit	039		8GK1 112-5KK12		1	1 unit	039
	500/550			8GK1 102-5KK22		1	1 unit	039		8GK1 112-5KK22		1	1 unit	039
	750/800			8GK1 102-5KK32		1	1 unit	039		8GK1 112-5KK32		1	1 unit	039
	1000/1050			8GK1 102-5KK42		1	1 unit	039		8GK1 112-5KK42		1	1 unit	039
	1250/1300			8GK1 102-5KK52		1	1 unit	039		8GK1 112-5KK52		1	1 unit	039
 I201_084457	250/300			8GK1 102-6KK12		1	1 unit	039		8GK1 112-6KK12		1	1 unit	039
	500/550			8GK1 102-6KK22		1	1 unit	039		8GK1 112-6KK22		1	1 unit	039
	750/800			8GK1 102-6KK32		1	1 unit	039		8GK1 112-6KK32		1	1 unit	039
	1000/1050			8GK1 102-6KK42		1	1 unit	039		8GK1 112-6KK42		1	1 unit	039
	1250/1300			8GK1 102-6KK52		1	1 unit	039		8GK1 112-6KK52		1	1 unit	039
 I201_084458	250/300			8GK1 102-7KK12		1	1 unit	039		8GK1 112-7KK12		1	1 unit	039
	500/550			8GK1 102-7KK22		1	1 unit	039		8GK1 112-7KK22		1	1 unit	039
	750/800			8GK1 102-7KK32		1	1 unit	039		8GK1 112-7KK32		1	1 unit	039
	1000/1050			8GK1 102-7KK42		1	1 unit	039		8GK1 112-7KK42		1	1 unit	039
	1250/1300			8GK1 102-7KK52		1	1 unit	039		8GK1 112-7KK52		1	1 unit	039

Quick-assembly kits and assembly kits [see pages 17.3/13 to 17.3/23](#).

For accessories [see page 17.3/24](#).

ALPHA 400 Distribution Boards

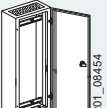
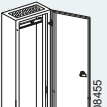
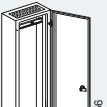
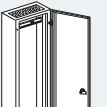
Unequipped Distribution Boards, Pre-Assembled

8GK1 surface-mounting distribution boards, IP43

Overview

- Cabinet depth of 210 mm
- Degree of protection IP43
- Safety class 1 (protective conductor connection) or safety class 2 (total insulation)
- Color RAL 9016 (traffic white)
- Enclosure pre-assembled with door and rotary handle, which can be replaced by other locking systems. Distribution boards with a width of 750 mm/800 mm or more will be supplied with a double door.
- Flanges: per panel width: one 2-component flange each at the top and bottom

Selection and ordering data

Internal/external dimensions		Panel width	DT	Surface-mounting distribution boards, IP43									
Height	Width			Safety class 1		PU		PS*/		PG		Safety class 2	
mm	mm			Order No.	Price per PU	(UNIT, SET, M)		P. unit				Order No.	Price per PU
	600/650	250/300		8GK1 122-2KK12		1	1 unit	039				8GK1 132-2KK12	
		500/550		8GK1 122-2KK22		1	1 unit	039				8GK1 132-2KK22	
		750/800		8GK1 122-2KK32		1	1 unit	039				8GK1 132-2KK32	
		1000/1050		8GK1 122-2KK42		1	1 unit	039				8GK1 132-2KK42	
	750/800	250/300		8GK1 122-3KK12		1	1 unit	039				8GK1 132-3KK12	
		500/550		8GK1 122-3KK22		1	1 unit	039				8GK1 132-3KK22	
		750/800		8GK1 122-3KK32		1	1 unit	039				8GK1 132-3KK32	
		1000/1050		8GK1 122-3KK42		1	1 unit	039				8GK1 132-3KK42	
	900/950	250/300		8GK1 122-4KK12		1	1 unit	039				8GK1 132-4KK12	
		500/550		8GK1 122-4KK22		1	1 unit	039				8GK1 132-4KK22	
		750/800		8GK1 122-4KK32		1	1 unit	039				8GK1 132-4KK32	
		1000/1050		8GK1 122-4KK42		1	1 unit	039				8GK1 132-4KK42	
		1250/1300		8GK1 122-4KK52		1	1 unit	039				8GK1 132-4KK52	
	1050/1100	250/300		8GK1 122-5KK12		1	1 unit	039				8GK1 132-5KK12	
		500/550		8GK1 122-5KK22		1	1 unit	039				8GK1 132-5KK22	
		750/800		8GK1 122-5KK32		1	1 unit	039				8GK1 132-5KK32	
		1000/1050		8GK1 122-5KK42		1	1 unit	039				8GK1 132-5KK42	
		1250/1300		8GK1 122-5KK52		1	1 unit	039				8GK1 132-5KK52	
	1200/1250	250/300		8GK1 122-6KK12		1	1 unit	039				8GK1 132-6KK12	
		500/550		8GK1 122-6KK22		1	1 unit	039				8GK1 132-6KK22	
		750/800		8GK1 122-6KK32		1	1 unit	039				8GK1 132-6KK32	
		1000/1050		8GK1 122-6KK42		1	1 unit	039				8GK1 132-6KK42	
		1250/1300		8GK1 122-6KK52		1	1 unit	039				8GK1 132-6KK52	
	1350/1400	250/300		8GK1 122-7KK12		1	1 unit	039				8GK1 132-7KK12	
		500/550		8GK1 122-7KK22		1	1 unit	039				8GK1 132-7KK22	
		750/800		8GK1 122-7KK32		1	1 unit	039				8GK1 132-7KK32	
		1000/1050		8GK1 122-7KK42		1	1 unit	039				8GK1 132-7KK42	
		1250/1300		8GK1 122-7KK52		1	1 unit	039				8GK1 132-7KK52	

Quick-assembly kits and assembly kits [see pages 17.3/13 to 17.3/23](#).
For accessories [see page 17.3/24](#).

ALPHA 400 Distribution Boards

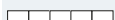
Unequipped Distribution Boards, Pre-Assembled

8GK1 surface-mounting distribution boards, IP55

Overview

- Cabinet depth of 210 mm
- IP55 degree of protection
- Safety class 1 (protective conductor connection) or safety class 2 (total insulation)
- Color RAL 9016 (traffic white)
- Enclosure pre-assembled with door and rotary handle, which can be replaced by other locking systems. Distribution boards with a width of 750 mm/800 mm or more will be supplied with a double door.
- Flanges: per panel width: one 2-component flange each at the top and bottom

Selection and ordering data

Internal/external dimensions		Panel width	DT	Surface-mounting distribution boards, IP55										
Height	Width			Safety class 1			Safety class 2							
				Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
mm	mm													
 1201_08455	900/950			8GK1 123-4KK12		1	1 unit	039		8GK1 133-4KK12		1	1 unit	039
	500/550			8GK1 123-4KK22		1	1 unit	039		8GK1 133-4KK22		1	1 unit	039
	750/800			8GK1 123-4KK32		1	1 unit	039		8GK1 133-4KK32		1	1 unit	039
	1000/1050			8GK1 123-4KK42		1	1 unit	039		8GK1 133-4KK42		1	1 unit	039
	1250/1300			8GK1 123-4KK52		1	1 unit	039		8GK1 133-4KK52		1	1 unit	039
 1201_08456	1050/1100			8GK1 123-5KK12		1	1 unit	039		8GK1 133-5KK12		1	1 unit	039
	500/550			8GK1 123-5KK22		1	1 unit	039		8GK1 133-5KK22		1	1 unit	039
	750/800			8GK1 123-5KK32		1	1 unit	039		8GK1 133-5KK32		1	1 unit	039
	1000/1050			8GK1 123-5KK42		1	1 unit	039		8GK1 133-5KK42		1	1 unit	039
	1250/1300			8GK1 123-5KK52		1	1 unit	039		8GK1 133-5KK52		1	1 unit	039
 1201_08457	1200/1250			8GK1 123-6KK12		1	1 unit	039		8GK1 133-6KK12		1	1 unit	039
	500/550			8GK1 123-6KK22		1	1 unit	039		8GK1 133-6KK22		1	1 unit	039
	750/800			8GK1 123-6KK32		1	1 unit	039		8GK1 133-6KK32		1	1 unit	039
	1000/1050			8GK1 123-6KK42		1	1 unit	039		8GK1 133-6KK42		1	1 unit	039
	1250/1300			8GK1 123-6KK52		1	1 unit	039		8GK1 133-6KK52		1	1 unit	039
 1201_08458	1350/1400			8GK1 123-7KK12		1	1 unit	039		8GK1 133-7KK12		1	1 unit	039
	500/550			8GK1 123-7KK22		1	1 unit	039		8GK1 133-7KK22		1	1 unit	039
	750/800			8GK1 123-7KK32		1	1 unit	039		8GK1 133-7KK32		1	1 unit	039
	1000/1050			8GK1 123-7KK42		1	1 unit	039		8GK1 133-7KK42		1	1 unit	039
	1250/1300			8GK1 123-7KK52		1	1 unit	039		8GK1 133-7KK52		1	1 unit	039

Quick-assembly kits and assembly kits [see pages 17.3/13 to 17.3/23](#).

For accessories [see page 17.3/24](#).

ALPHA 400 Distribution Boards

Unequipped Distribution Boards, Pre-Assembled

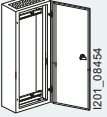
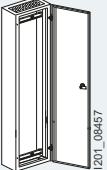
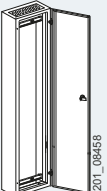
8GK1 flush-mounting distribution boards, IP31

Overview

- Cabinet depth of 210 mm
- Degree of protection: IP31 (flush-mounting design comes with an integrated masking frame)
- Safety class 1 (protective conductor connection) or safety class 2 (total insulation)
- Color RAL 9016 (traffic white)
- Enclosure pre-assembled with door and rotary handle, which can be replaced by other locking systems. Distribution boards with a width of 750 mm/800 mm or more will be supplied with a double door.
- Flanges:
 - Safety class 1 is delivered without flanges.

Note: Wall anchors are included in delivery with flush-mounting distribution boards.

Selection and ordering data

Internal/external dimensions		Panel width	DT	Flush-mounting distribution boards, IP31				
Height	Width			Safety class 1	Price per PU	PU (UNIT, SET, M)	PS* P. unit	PG
mm	mm			Order No.				
 750/800	500/550			8GK1 121-3KK22		1	1 unit	039
	750/800			8GK1 121-3KK32		1	1 unit	039
 900/950	500/550			8GK1 121-4KK22		1	1 unit	039
	750/800			8GK1 121-4KK32		1	1 unit	039
 1200/1250	500/550			8GK1 121-6KK22		1	1 unit	039
	750/800			8GK1 121-6KK32		1	1 unit	039
 1350/1400	500/550			8GK1 121-7KK22		1	1 unit	039
	750/800			8GK1 121-7KK32		1	1 unit	039

Quick-assembly kits and assembly kits [see pages 17.3/13 to 17.3/23](#).

For accessories [see page 17.3/24](#).

ALPHA 400 Distribution Boards

Quick-Assembly Kits for Unequipped Distribution Boards

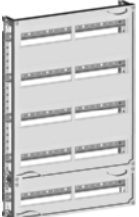
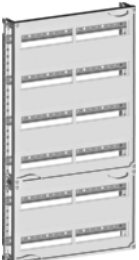
**8GK4 quick-assembly kits
for modular installation devices**

Overview

Quick-assembly kits are pre-assembled cabinet-high system components for the most common applications. Such kits already include the longitudinal stays and can be simply snapped

into the unequipped distribution boards of the respective mounting height, thanks to the time-saving quick-locking technology.

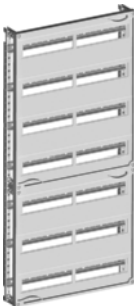
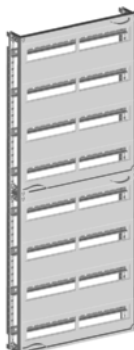
Selection and ordering data

	External dimensions		Tiers/ MW	DT	Quick-assembly kits, for modular installation devices										
	Height	Width			Tier spacing of 125 mm, with N/PE bar		PU (UNIT, SET, M)	PS*/ P. unit	PG	DT	Tier spacing of 150 mm, without N/PE bar		PU (UNIT, SET, M)	PS*/ P. unit	PG
					Order no.	Price per PU					Order no.	Price per PU			
 8GK4 001-4KK22	600	250	4/48		8GK4 001-4KK11	1	1 unit	039		--					
		500	8/96		8GK4 001-4KK22	1	1 unit	039		--					
 8GK4 001-5KK22	750	250	5/60		8GK4 001-5KK11	1	1 unit	039		--					
		500	10/120		8GK4 001-5KK22	1	1 unit	039		--					
 8GK4 001-6KK22	900	250	6/72		8GK4 001-6KK11	1	1 unit	039		8GK4 051-6KK11		1	1 unit	039	
		500	12/144		8GK4 003-6KK11 (with 2 N/PE bars)	1	1 unit	039		--		1	1 unit	039	
					8GK4 001-6KK22	1	1 unit	039		8GK4 101-6KK22					

ALPHA 400 Distribution Boards

Quick-Assembly Kits for Unequipped Distribution Boards

8GK4 quick-assembly kits for modular installation devices

	External dimensions		Tiers/ MW	DT	Quick-assembly kits, for modular installation devices										
	Height mm	Width mm			Tier spacing of 125 mm, with N/PE bar		PU (UNIT, SET, M)	PS*/ P. unit	PG	DT	Tier spacing of 150 mm, without N/PE bar		PU (UNIT, SET, M)	PS*/ P. unit	PG
					Order no.	Price per PU					Order no.	Price per PU			
	1050	250	7/84		8GK4 001-7KK11	1	1 unit	039		8GK4 051-7KK11	1	1 unit	039		
					8GK4 003-7KK11 (with 2 N/PE bars)	1	1 unit	039		--					
		500	14/168		8GK4 001-7KK22	1	1 unit	039		8GK4 101-7KK22	1	1 unit	039		
	1200	250	8/96		8GK4 001-8KK12	1	1 unit	039		8GK4 101-8KK12	1	1 unit	039		
					8GK4 003-8KK12 (with 2 N/PE bars)	1	1 unit	039		--					
		500	16/192		8GK4 001-8KK22	1	1 unit	039		8GK4 101-8KK22	1	1 unit	039		
	1350	250	9/108		8GK4 002-8KK12	1	1 unit	039		8GK4 102-8KK12	1	1 unit	039		
					8GK4 003-8KK13 (with 2 N/PE bars)	1	1 unit	039		--					
		500	18/216		8GK4 002-8KK22	1	1 unit	039		8GK4 102-8KK22	1	1 unit	039		
Note															
• The quick-assembly kits with a width of 250 mm are equipped with 7.5 mm standard mounting rails. • The quick-assembly kits with a width of 500 mm are equipped with 15 mm standard mounting rails. • For accessories see page 17.3/24.															

ALPHA 400 Distribution Boards

Quick-Assembly Kits for Unequipped Distribution Boards

8GK4 quick-assembly kits for modular installation devices and terminal blocks

Selection and ordering data

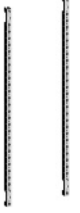
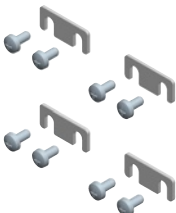
	External dimensions		Tiers for terminals/tiers REG/MW	DT	Quick-assembly kits, for modular installation devices					
	Height	Width			Tier spacing of 150 mm, without N/PE bar	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
 8GK4 100-6KK22	900	250	2/4/48		8GK4 100-6KK12	1	1 unit	039		
		500	4/8/96		8GK4 100-6KK22	1	1 unit	039		
		750	6/12/144		8GK4 100-6KK32	1	1 unit	039		
	 8GK4 100-7KK22	1050	250	2/5/60		8GK4 100-7KK12	1	1 unit	039	
500			4/10/120	8GK4 100-7KK22		1	1 unit	039		
750			6/15/180	8GK4 100-7KK32		1	1 unit	039		
 8GK4 100-8KK22		1200	250	2/6/72		8GK4 100-8KK12	1	1 unit	039	
	500		4/12/144	8GK4 100-8KK22		1	1 unit	039		
	750		6/18/216	8GK4 100-8KK32		1	1 unit	039		
	 8GK4 110-8KK22	1350	250	3/6/72		8GK4 110-8KK12	1	1 unit	039	
500			6/12/144	8GK4 110-8KK22		1	1 unit	039		
750			9/18/216	8GK4 110-8KK32		1	1 unit	039		
Note										
• The quick-assembly kits with a width of 250 mm are equipped with 7.5 mm standard mounting rails. • The quick-assembly kits with a width of 500 mm/750 mm are equipped with 15 mm standard mounting rails. • For accessories see page 17.3/24.										

ALPHA 400 Distribution Boards

Quick-Assembly Kits for Unequipped Distribution Boards

Longitudinal stays

Selection and ordering data

Version		Order no.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
 8GK4 851-4KK00	Longitudinal stays - To mount the assembly kits in unequipped distribution boards, 2 longitudinal stays are required for each assembly kit width 1 set = 2 stays					
	Height in mm					
	600	8GK4 851-4KK00		1	1 set	039
	750	8GK4 851-5KK00		1	1 set	039
	900	8GK4 851-6KK00		1	1 set	039
	1050	8GK4 851-7KK00		1	1 set	039
	1200	8GK4 851-8KK00		1	1 set	039
	1350	8GK4 852-8KK00		1	1 set	039
 8GK9 910-0KK32	Connecting kit for longitudinal stays - Connecting plate for stays 1 set = 4 units	8GK9 910-0KK32		1	1 unit	039

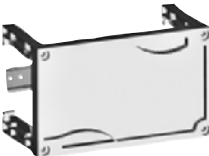
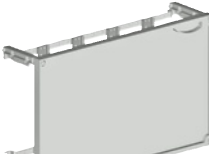
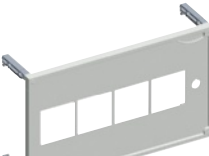
Assembly kits for unequipped distribution boards

Selection and ordering data

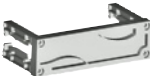
Version				Order no.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
 8GK4 351-1KK12  8GK4 351-2KK12  8GK4 351-3KK12  8GK4 351-4KK12				Assembly kits for modular installation devices - Assembly kits for individual and project-related assembly, comprising: device racks, front cover including supports, screws and mounting accessories - Panel-size grid dimensions H × W (mm): 150 × 250 - The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports.				
Tier spacing	External dimensions		Tiers/MW					
mm	Height mm	Width mm						
125	150	250	1/12	--				
		500	1/24	--				
		750	1/36	--				
	300	250	2/24	8GK4 301-2KK12	1	1 unit	039	
		500	2/48	8GK4 301-2KK22	1	1 unit	039	
		750	2/72	--				
	450	250	3/36	8GK4 301-3KK12	1	1 unit	039	
		500	3/72	8GK4 301-3KK22	1	1 unit	039	
		750	3/108	--				
	600	250	4/48	8GK4 301-4KK12	1	1 unit	039	
		500	4/96	8GK4 301-4KK22	1	1 unit	039	
		750	4/144	--				
150	150	250	1/12	8GK4 351-1KK12	1	1 unit	039	
		500	1/24	8GK4 351-1KK22	1	1 unit	039	
		750	1/36	8GK4 351-1KK32	1	1 unit	039	
	300	250	2/24	8GK4 351-2KK12	1	1 unit	039	
		500	2/48	8GK4 351-2KK22	1	1 unit	039	
		750	2/72	8GK4 351-2KK32	1	1 unit	039	
	450	250	3/36	8GK4 351-3KK12	1	1 unit	039	
		500	3/72	8GK4 351-3KK22	1	1 unit	039	
		750	3/108	8GK4 351-3KK32	1	1 unit	039	
	600	250	4/48	8GK4 351-4KK12	1	1 unit	039	
		500	4/96	8GK4 351-4KK22	1	1 unit	039	
		750	4/144	8GK4 351-4KK32	1	1 unit	039	
Note								
- For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.3/16). - For accessories see page 17.3/24. - The quick-assembly kits with a width of 250 mm are equipped with 7.5 mm standard mounting rails. - The assembly kits with a width of 500/750 mm are equipped with 15 mm standard mounting rails.								

ALPHA 400 Distribution Boards

Assembly kits for unequipped distribution boards

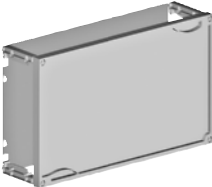
Version	DT	Order No.	Price per PU	PU (UNIT, SET,	PS*/ P. unit	PG									
 8GK4 401-1KK12 Assembly kits for horizontal terminal blocks - Terminal blocks with graded insulation design - With closed front cover - Assembly kits for individual and project-related assembly, comprising: device racks, front cover including supports, screws and mounting accessories - Panel-size grid dimensions H × W (mm): 150 × 250 - The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. <table><thead><tr><th colspan="2">External dimensions in mm</th></tr><tr><th>Height</th><th>Width</th></tr></thead><tbody><tr><td>150</td><td>250</td></tr><tr><td>300</td><td>250 500 750</td></tr><tr><td>450</td><td>250 500 750</td></tr></tbody></table> Note For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.3/16).	External dimensions in mm		Height	Width	150	250	300	250 500 750	450	250 500 750		8GK4 401-1KK12 8GK4 401-2KK12 8GK4 401-2KK22 8GK4 401-2KK32 8GK4 401-3KK12 8GK4 401-3KK22 8GK4 401-3KK32	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	039 039 039 039 039 039 039
External dimensions in mm															
Height	Width														
150	250														
300	250 500 750														
450	250 500 750														
 8GK4 402-2KK12 Assembly kits for vertical terminal blocks - Terminal blocks with insulation design - With closed front cover - Assembly kits for individual and project-related assembly, comprising: device racks, front cover including supports, screws and mounting accessories - Panel-size grid dimensions H × W (mm): 150 × 250 <table><thead><tr><th colspan="2">External dimensions in mm</th></tr><tr><th>Height</th><th>Width</th></tr></thead><tbody><tr><td>300</td><td>250 500 750</td></tr><tr><td>450</td><td>250 500 750</td></tr><tr><td>600</td><td>250 500</td></tr></tbody></table> Note For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.3/16).	External dimensions in mm		Height	Width	300	250 500 750	450	250 500 750	600	250 500		8GK4 402-2KK12 8GK4 402-2KK22 8GK4 402-2KK32 8GK4 402-3KK12 8GK4 402-3KK22 8GK4 402-3KK32 8GK4 402-4KK12 8GK4 402-4KK22	1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	039 039 039 039 039 039 039 039
External dimensions in mm															
Height	Width														
300	250 500 750														
450	250 500 750														
600	250 500														
 8GK4 500-2KK20 Assembly kit front covers, for measuring devices Note For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.3/16).		8GK4 500-2KK20	1	1 unit	039										

Assembly kits for unequipped distribution boards

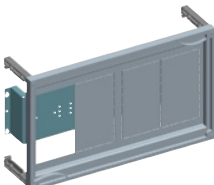
Version	DT	Order No.	Price per PU	PU (UNIT, SET,	PS*/ P. unit	PG
 8GK4 501-0KK12		Assembly kits for unequipped panels				
• Gray • Assembly kits for individual and project-related assembly, comprising: front cover including supports, screws and mounting accessories • Panel-size grid dimensions H × W (mm): 150 × 250 • The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports.						
External dimensions in mm						
Height	Width					
75	250 500	8GK4 501-0KK12	1	1 unit	039	
		8GK4 501-0KK22	1	1 unit	039	
150	250 500 750	8GK4 501-1KK12	1	1 unit	039	
		8GK4 501-1KK22	1	1 unit	039	
		8GK4 501-1KK32	1	1 unit	039	
300	250 500 750	8GK4 501-2KK12	1	1 unit	039	
		8GK4 501-2KK22	1	1 unit	039	
		8GK4 501-2KK32	1	1 unit	039	
450	250 500 750	8GK4 501-3KK12	1	1 unit	039	
		8GK4 501-3KK22	1	1 unit	039	
		8GK4 501-3KK32	1	1 unit	039	
600	250 500 750	8GK4 501-4KK12	1	1 unit	039	
		8GK4 501-4KK22	1	1 unit	039	
		8GK4 501-4KK32	1	1 unit	039	
750	250 500 750	8GK4 501-5KK12	1	1 unit	039	
		8GK4 501-5KK22	1	1 unit	039	
		8GK4 501-5KK32	1	1 unit	039	
Note						
• For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.3/16). • For accessories see page 17.3/24.						
 8GK4 501-3KK23		Assembly kits for unequipped panels with deep-drawn cover, 40 mm				
• Assembly kits for individual and project-related assembly, comprising: front cover including supports, screws and mounting accessories • Panel-size grid dimensions H × W (mm): 150 × 250 • The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports.						
External dimensions in mm						
Height	Width					
300	250 500 750	8GK4 501-2KK13	1	1 unit	039	
		8GK4 501-2KK23	1	1 unit	039	
		8GK4 501-2KK33	1	1 unit	039	
450	250 500 750	8GK4 501-3KK13	1	1 unit	039	
		8GK4 501-3KK23	1	1 unit	039	
		8GK4 501-3KK33	1	1 unit	039	
Note						
• For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.3/16). • For accessories see page 17.3/24.						

ALPHA 400 Distribution Boards

Assembly kits for unequipped distribution boards

Version	DT	Order No.	Price per PU	PU (UNIT, SET,	PS*/ P. unit	PG																																												
 8GK4 451-2KK12																																																		
Assembly kits with mounting plates • Assembly kits for individual and project-related assembly, comprising: mounting plate, front cover including supports, mounting brackets (depth-adjustable), screws and mounting accessories • With closed front cover • Panel-size grid dimensions H × W (mm): 150 × 250 • The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports.																																																		
<table><tr><th colspan="2">External dimensions (mm): assembly kit</th><th colspan="2">Mounting plate dimensions in mm</th></tr><tr><th>Height</th><th>Width</th><th>Height</th><th>Width</th></tr><tr><td rowspan="3">300</td><td>250</td><td rowspan="3">245</td><td>207.5</td></tr><tr><td>500</td><td>457.5</td></tr><tr><td>750</td><td>707.5</td></tr><tr><td rowspan="3">450</td><td>250</td><td rowspan="3">395</td><td>207.5</td></tr><tr><td>500</td><td>457.5</td></tr><tr><td>750</td><td>707.5</td></tr><tr><td rowspan="3">600</td><td>250</td><td rowspan="3">545</td><td>207.5</td></tr><tr><td>500</td><td>457.5</td></tr><tr><td>750</td><td>707.5</td></tr></table> Note • For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.3/16). • If the fitted mounting plate extends over several panel widths, it is not possible to place a longitudinal stay in the middle. • For accessories see page 17.3/24.							External dimensions (mm): assembly kit		Mounting plate dimensions in mm		Height	Width	Height	Width	300	250	245	207.5	500	457.5	750	707.5	450	250	395	207.5	500	457.5	750	707.5	600	250	545	207.5	500	457.5	750	707.5												
External dimensions (mm): assembly kit		Mounting plate dimensions in mm																																																
Height	Width	Height	Width																																															
300	250	245	207.5																																															
	500		457.5																																															
	750		707.5																																															
450	250	395	207.5																																															
	500		457.5																																															
	750		707.5																																															
600	250	545	207.5																																															
	500		457.5																																															
	750		707.5																																															
 8GK9 531-4KK10																																																		
Cabinet-high mounting plates • With fixing screws • Sendzimir-galvanized sheet steel • For mounting on longitudinal stays • No covers available • Not depth-adjustable																																																		
<table><tr><th colspan="2">External dimensions in mm</th><th colspan="2">Mounting plate dimensions in mm</th></tr><tr><th>Height</th><th>Width</th><th>Height</th><th>Width</th></tr><tr><td rowspan="2">600</td><td>250</td><td rowspan="2">596</td><td>243</td></tr><tr><td>500</td><td>493</td></tr><tr><td rowspan="2">750</td><td>250</td><td rowspan="2">685</td><td>243</td></tr><tr><td>500</td><td>493</td></tr><tr><td rowspan="2">900</td><td>250</td><td rowspan="2">835</td><td>243</td></tr><tr><td>500</td><td>493</td></tr><tr><td rowspan="2">1050</td><td>250</td><td rowspan="2">985</td><td>243</td></tr><tr><td>500</td><td>493</td></tr><tr><td rowspan="2">1200</td><td>250</td><td rowspan="2">1135</td><td>243</td></tr><tr><td>500</td><td>493</td></tr><tr><td rowspan="2">1350</td><td>250</td><td rowspan="2">1285</td><td>243</td></tr><tr><td>500</td><td>493</td></tr></table> Note • If these mounting plates are fitted in distribution boards of safety class II, safety class II is no longer guaranteed! • If the fitted mounting plate extends over several panel widths, it is not possible to place a longitudinal stay in the middle. • For accessories see page 17.3/24.							External dimensions in mm		Mounting plate dimensions in mm		Height	Width	Height	Width	600	250	596	243	500	493	750	250	685	243	500	493	900	250	835	243	500	493	1050	250	985	243	500	493	1200	250	1135	243	500	493	1350	250	1285	243	500	493
External dimensions in mm		Mounting plate dimensions in mm																																																
Height	Width	Height	Width																																															
600	250	596	243																																															
	500		493																																															
750	250	685	243																																															
	500		493																																															
900	250	835	243																																															
	500		493																																															
1050	250	985	243																																															
	500		493																																															
1200	250	1135	243																																															
	500		493																																															
1350	250	1285	243																																															
	500		493																																															

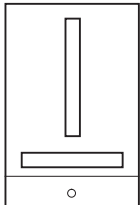
Assembly kits for unequipped distribution boards

Version		DT	Order No.	Price per PU	PU (UNIT, SET,	PS*/ P. unit	PG																											
 8GK4 550-2KK22 Assembly kits for 3NP1 LV HRC fuse switch disconnectors, for mounting on support plates - Assembly kits for individual and project-related assembly, comprising: Support plate, front cover including supports, molded-plastic masking frame, screws and mounting accessories - Panel-size grid dimensions H x W (mm): 150 x 250 - The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. <table><tr><th>Assembly kit for size</th><th>LV HRC fuse switch disconnectors</th><th>Height in mm</th><th>Width in mm</th></tr><tr><td>2 x 00/000</td><td>2 x 3NP1 123... / 3NP1 133...</td><td>300</td><td>250</td></tr><tr><td>4 x 00/000</td><td>4 x 3NP1 123... / 3NP1 133...</td><td></td><td>500</td></tr><tr><td>1 x 1</td><td>1 x 3NP1 143...</td><td>450</td><td>250</td></tr><tr><td>2 x 1</td><td>2 x 3NP1 143...</td><td></td><td>500</td></tr><tr><td>1 x 2</td><td>1 x 3NP1 153...</td><td>450</td><td>250</td></tr><tr><td>1 x 3</td><td>1 x 3NP1 163...</td><td></td><td>500</td></tr></table> Accessories: 3NP1 123... covers, size 000 (required only for size 000 disconnectors) - Busbar supports - 40 mm, 5-pole - 60 mm, 3-pole Note - For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.3/16). - For mounting size 000 fuse switch disconnectors you additionally require the cover 8GK9 912-0KK00 (see Accessories on page 17.3/21). - For more accessories see page 17.3/24.			Assembly kit for size	LV HRC fuse switch disconnectors	Height in mm	Width in mm	2 x 00/000	2 x 3NP1 123... / 3NP1 133...	300	250	4 x 00/000	4 x 3NP1 123... / 3NP1 133...		500	1 x 1	1 x 3NP1 143...	450	250	2 x 1	2 x 3NP1 143...		500	1 x 2	1 x 3NP1 153...	450	250	1 x 3	1 x 3NP1 163...		500				
Assembly kit for size	LV HRC fuse switch disconnectors	Height in mm	Width in mm																															
2 x 00/000	2 x 3NP1 123... / 3NP1 133...	300	250																															
4 x 00/000	4 x 3NP1 123... / 3NP1 133...		500																															
1 x 1	1 x 3NP1 143...	450	250																															
2 x 1	2 x 3NP1 143...		500																															
1 x 2	1 x 3NP1 153...	450	250																															
1 x 3	1 x 3NP1 163...		500																															
				8GK4 550-2KK12	1	1 unit	039																											
				8GK4 550-2KK22	1	1 unit	039																											
				8GK4 550-3KK12	1	1 unit	039																											
				8GK4 550-3KK22	1	1 unit	039																											
				8GK4 551-3KK12	1	1 unit	039																											
				8GK4 551-3KK22	1	1 unit	039																											
				8GK9 912-0KK00	1	1 unit	039																											
				8GK9 650-0KK00	1	1 unit	039																											
				8GK9 711-0KK03	1	1 unit	039																											

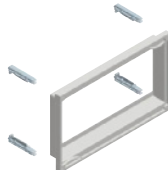
8GK4 650-2KK12 **Assembly kits for 3NP1 LV HRC fuse switch disconnectors, for mounting on busbars** - Assembly kits for individual and project-related assembly, comprising: front cover including supports, molded-plastic masking frame, screws and mounting accessories - Panel-size grid dimensions H x W (mm): 150 x 250 - The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports.	Assembly kit for size	LV HRC fuse switch disconnectors	Height in mm	Width in mm		-----------------------	----------------------------------	--------------	-------------		2 x 00/000	2 x 3NP1 123... / 3NP1 133...	300	250		4 x 00/000	4 x 3NP1 123... / 3NP1 133...		500		2 x 00/000	2 x 3NP1 123... / 3NP1 133...	450	250		4 x 00/000	4 x 3NP1 123... / 3NP1 133...		500		1 x 1	1 x 3NP1 143...	450	250		2 x 1	2 x 3NP1 143...		500		1 x 2	1 x 3NP1 153...		250	Accessories: - 3NP1 123... covers, size 000 (required only for size 000 disconnectors) - Busbar supports - 40 mm, 5-pole - 60 mm, 3-pole Note - For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.3/16). - For mounting size 000 fuse switch disconnectors you additionally require the cover 8GK9 912-0KK00 (see Accessories on page 17.3/21). - The Cu busbar and the busbar supports must be ordered separately (see page 17.3/26). - For more accessories see page 17.3/24.						
				8GK4 650-2KK12	1	1 unit	039																																												
				8GK4 650-2KK22	1	1 unit	039																																												
				8GK4 650-3KK12	1	1 unit	039																																												
				8GK4 650-3KK22	1	1 unit	039																																												
				8GK4 651-3KK12	1	1 unit	039																																												
				8GK4 651-3KK22	1	1 unit	039																																												
				8GK4 652-3KK12	1	1 unit	039																																												
				8GK9 912-0KK00	1	1 unit	039																																												
				8GK9 650-0KK00	1	1 unit	039																																												
				8GK9 711-0KK03	1	1 unit	039																																												

ALPHA 400 Distribution Boards

Assembly kits for unequipped distribution boards

Version	DT	Order No.	Price per PU	PU (UNIT, SET,	PS*/ P. unit	PG											
 8GK4 701-3KK12  8GK4 721-3KK10	Assembly kits for VL circuit breakers • Assembly kits for individual and project-related assembly, comprising: support plate, front cover including supports, screws and mounting accessories • Panel-size grid dimensions H × W (mm): 150 × 250 • The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. <table><tr><th>Versions</th><th colspan="2">External dimensions in mm</th></tr><tr><td></td><th>Height</th><th>Width</th></tr><tr><td>• 3-pole and 4-pole for VL circuit breakers - 1 × VL160/VL160X - 1 × VL160X, 1 × VL160, 1 × VL250 - 1 × VL400 </td><td>300 450 600</td><td>250</td></tr><tr><td>• For installation with mounted RCD module - 1 × VL160X + RCD - 1 × VL160/VL250 + RCD - 1 × VL400 + RCD </td><td>450 750</td><td>250</td></tr></table> Note • For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.3/16). • For accessories see page 17.3/24.	Versions	External dimensions in mm			Height	Width	• 3-pole and 4-pole for VL circuit breakers - 1 × VL160/VL160X - 1 × VL160X, 1 × VL160, 1 × VL250 - 1 × VL400	300 450 600	250	• For installation with mounted RCD module - 1 × VL160X + RCD - 1 × VL160/VL250 + RCD - 1 × VL400 + RCD	450 750	250				
Versions	External dimensions in mm																
	Height	Width															
• 3-pole and 4-pole for VL circuit breakers - 1 × VL160/VL160X - 1 × VL160X, 1 × VL160, 1 × VL250 - 1 × VL400	300 450 600	250															
• For installation with mounted RCD module - 1 × VL160X + RCD - 1 × VL160/VL250 + RCD - 1 × VL400 + RCD	450 750	250															
		8GK4 701-2KK12	1	1 unit	039												
		8GK4 701-3KK12	1	1 unit	039												
		8GK4 702-4KK12	1	1 unit	039												
		8GK4 720-3KK10	1	1 unit	039												
		8GK4 721-3KK10	1	1 unit	039												
		8GK4 720-5KK10	1	1 unit	039												
 8GE3 713-4	Assembly kits for meter mounting • Assembly kits for individual and project-related assembly, not standardized, only for internal measurements, comprising: meter support plate with all-round partitions, screws and mounting accessories • Not standardized, 375 mm • Height 450 mm (external dimension) • With 250 mm (external dimension) • Panel-size grid dimensions H × W (mm): 150 × 250 Note • For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.3/16) • For accessories see page 17.3/24.	8GE3 713-4	1	1 unit	042												

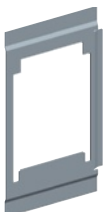
Assembly kits for unequipped distribution boards

Version	DT	Order No.	Price per PU	PU (UNIT, SET,	PS*/ P. unit	PG																	
 8GK4 801-2KK12	Assembly kits for bus-mounting fuse bases for mounting on busbar systems • 3-pole, busbar center-to-center spacing of 60 mm • Assembly kits for individual and project-related assembly, comprising: front cover including supports, busbar supports for bus-mounting fuse bases, screws and mounting accessories • Panel-size grid dimensions H x W (mm): 150 x 250 • The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. • 7 x NEOZED D02 <table><tr><th colspan="2">External dimensions in mm</th></tr><tr><th>Height</th><th>Width</th></tr><tr><td>300</td><td>250</td></tr><tr><td>450</td><td></td></tr></table> Note • Two busbar supports are included in the assembly kit • For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.3/16). • The Cu busbar must be ordered separately (see page 17.3/26). • For accessories see page 17.3/24.	External dimensions in mm		Height	Width	300	250	450															
External dimensions in mm																							
Height	Width																						
300	250																						
450																							
 8GK4 801-2KK13	Assembly kits for busbar-adaptable units • For 40 mm or 60 mm busbar system • Busbar center-to-center spacing of 40 mm/60 mm • Assembly kits for individual and project-related assembly, comprising: deep-drawn front cover with supports • Panel-size grid dimensions H x W (mm): 150 x 250 • The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. <table><tr><th colspan="2">External dimensions in mm</th></tr><tr><th>Height</th><th>Width</th></tr><tr><td>300</td><td>250</td></tr><tr><td></td><td>500</td></tr><tr><td></td><td>750</td></tr><tr><td>450</td><td>250</td></tr><tr><td></td><td>500</td></tr><tr><td></td><td>750</td></tr></table> Note • Notice: Busbar supports (8GK9 711-0KK03) not included in delivery • For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.3/16). • The Cu busbar and the busbar supports must be ordered separately (see page 17.3/26).	External dimensions in mm		Height	Width	300	250		500		750	450	250		500		750						
External dimensions in mm																							
Height	Width																						
300	250																						
	500																						
	750																						
450	250																						
	500																						
	750																						
 5SH3 536	Supports for blanking cover	5SH3 536		1	4/160 units	031																	
 5SH3 537	Blanking covers Note For accessories see page 17.3/24.	5SH3 537		1	2 units	031																	
 8GK9 120-0KK30	Ventilation grilles	8GK9 120-0KK30		1	4 units	038																	

ALPHA 400 Distribution Boards

Accessories

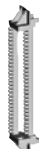
Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
For assembly kits						
	3NP1 123... covers, size 000	8GK9 912-0KK00	1		1 unit	039
	Shrouding covers, for 3NP4 076 fuse switch disconnectors	3NY7 600	1		1 unit	103
for unequipped distribution boards						
	Wall-mounting rails - For all wall-mounted distribution boards - The distribution board can be quickly and precisely mounted by a single person					
8GK9 912-0KK10	Length in mm					
	250	8GK9 912-0KK10	1	1 unit	039	
	500	8GK9 912-0KK20	1	1 unit	039	
	750	8GK9 912-0KK30	1	1 unit	039	
	1000	8GK9 912-0KK40	1	1 unit	039	
	1250	8GK9 912-0KK50	1	1 unit	039	
Cabinet mounting lugs, flat						
Versions						
For mounting and fixing a distribution board directly against the wall without a clearance (1set = 4 lugs including screws)		8GK9 910-0KK36	1	5 sets	039	
For connecting 2 distribution boards and for mounting and fixing them directly against the wall without a clearance, 8GK9 910-0KK36 additionally required for the ends of a row of distribution boards (1 set = 2 lugs including screws)		8GK9 910-0KK37	1	1 set	039	
Hollow-wall sets						
For fixing flush-mounting distribution boards in hollow walls		8GK9 910-0KK28	1	1 set	039	
Locking systems						
Versions						
	- Standard locking devices - Color: black - Made of plastic - with rotary handle for wall-mounted distribution boards, degree of protection IP43 - Cannot be retrofitted to other locking devices	8GK9 560-0KK04	1	1 unit	039	
	- Retrofit kits - For standard locking device to degree of protection IP55 - Can only be used for distribution boards with degree of protection IP55	8GK9 560-0KK05	1	1 set	039	
	- Rotary handle locking devices for profile semicylinders - Color: black - For wall-mounted distribution boards with degree of protection IP43/IP55, with mounting option for a profile semicylinder (length 40 mm)	8GK9 560-0KK06	1	1 unit	039	
	- Lockable rotary handles - Incl. E012 lock and two keys	8GK9 560-0KK13	1	1 unit	039	
Accessories						
Spare key for E012 lock		8GF9 390-2	1	1 unit	042	

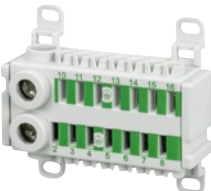
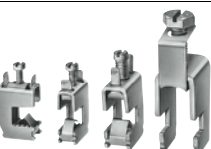
Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Profile semicylinders						
Versions						
 8GK9 560-0KK07	With E012 lock and 2 keys	8GK9 560-0KK07		1	1 unit	039
 8GK9 560-0KK08	With Senate tumbler and 2 keys	8GK9 560-0KK08		1	1 unit	039
 8GK9 560-0KK10	With 3-mm pin as double-bit lock	8GK9 560-0KK10		1	1 unit	039
Flanges for fast and correct wiring						
Versions						
 8GK9 100-0KK00	1-component flanges (for IP43 distribution boards, installed on bottom panel) - For bottom cable entry, with 11 possible knockouts - Max. Ø 50.5 mm, material plastic	8GK9 100-0KK00		1	1 unit	039
 8GK9 100-0KK01	2-component flanges (degree of protection: IP55) - For top/bottom cable entry - With 44 possible knockouts - Comprising 2 elastic components	8GK9 100-0KK01		1	1 unit	039
 8GK9 100-0KK03	- Flange plate made of sheet steel (only safety class 1) - For metric screw connections, degree of protection: IP55 (2 units)	8GK9 100-0KK03		1	1 unit	039
 8GK9 100-0KK10	Connecting flanges	8GK9 100-0KK10		1	1 unit	039
Circuit diagram pockets						
Versions						
 8GK9 910-0KK23	DIN A3, made of sheet steel, depth 10 mm	8GK9 910-0KK22		1	1 unit	039
	DIN A4, transparent sleeve	8GK9 910-0KK23		1	20 units	039
	DIN A4, made of plastic, depth 30 mm	8GD9 132		1	1 unit	042
 8GD9 084	Siemens nameplates - Made of aluminum - Self-adhesive - Color: petrol	8GD9 084		1	1 unit	042
	Paint sticks - Color RAL 9016 (traffic white) 12 g	8GK9 910-0KK15		1	1 unit	039
	Paint spray cans - Color RAL 9016 (traffic white) 400 ml	8GK9 910-0KK17		1	1 unit	039

ALPHA 400 Distribution Boards

Accessories

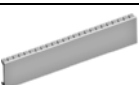
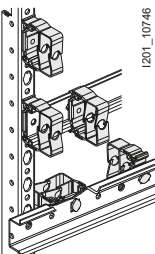
	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
For quick-assembly kits and assembly kits							
	Mounting plates for telecommunication units • Made of perforated steel plate • With insert nuts and quick-locking technology • With 1 set of captive nuts size M5, width 250 mm						
	Height in mm						
	900		8GS4 016-1		1	1 unit	043
	1050		8GS4 016-2		1	1 unit	043
	1200		8GS4 016-3		1	1 unit	043
8GS4 016-1	1350		8GS4 016-4		1	1 unit	043
	Busbar supports With matching support plate						
	Versions						
	• 1-pole - For Cu busbars 12 × 5 (10) mm, 20 × 5 (10) mm, 30 × 5 (10) mm - Height 150 mm		5SH3 540		1	1 unit	031
	• 5-pole - Busbar center-to-center spacing of 40 mm - For Cu busbars 12 × 5 (10) mm - For mounting 3NP fuse switch disconnectors - Height 300 mm		8GK9 650-0KK00		1	1 unit	039
	• 3-pole - Busbar center-to-center spacing of 60 mm - For Cu busbars 12 × 5 (10) mm, 20 × 5 (10) mm, 30 × 5 (10) mm - For bus-mounting fuse bases and switch disconnectors, used together with assembly kits (mounting directly on the stays)		8GK9 711-0KK03		1	1 unit	039
	Cu busbars						
	Versions						
	• Cu cross-section of 12 × 5 mm, 250 A - Length 250 mm - Length 500 mm - Length 750 mm - Length 1000 mm - Length 1250 mm		8GK9 731-0KK10 8GK9 731-0KK20 8GK9 731-0KK30	1 1 1	5 units 5 units 5 units	039 039 039	
	• Cu cross-section of 20 × 5 mm, 320 A - Length 250 mm - Length 500 mm - Length 750 mm - Length 1000 mm - Length 1250 mm		8GK9 731-0KK40 8GK9 731-0KK50	1 1	5 units 5 units	039 039	
	• Cu cross-section of 30 × 5 mm, 450 A - Length 250 mm - Length 500 mm - Length 750 mm - Length 1000 mm - Length 1250 mm		8GK9 733-0KK10 8GK9 733-0KK20 8GK9 733-0KK30 8GK9 733-0KK40 8GK9 733-0KK50	1 1 1 1 1	5 units 5 units 5 units 5 units 5 units	039 039 039 039 039	
	Supports for front covers • Long version • Material plastic • 1 set = 4 supports		8GK9 910-0KK30		1	5 sets	039
8GK9 910-0KK30							
	N/PE bars • For mounting on longitudinal stays • With 2 × 29 clamping points • 16 mm² • Length 250 mm		8GK9 910-0KK10		1	1 unit	039
8GK9 910-0KK10							

Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 8GK9 910-0KK11	N/PE bars as plug-in terminals - Width 250 mm - Each with 6 screw terminals from 2.5 to 16 mm²						
	Versions 21 plug-in connections from 1.5 to 4 mm², for mounting on longitudinal stays at a 30° inclination		8GK9 910-0KK11		1	1 unit	039
	21 plug-in connections from 1.5 to 4 mm² for the PE bar and an N-N bar each with 2 screw connections from 2.5 to 16 mm² and 10 plug-in connections from 1.5 to 4 mm², for mounting on longitudinal stays at a 30° inclination		8GK9 910-0KK12		1	1 unit	039
 8GS4 034-1	N terminals - For snap-on mounting onto the standard mounting rail - For distributing the neutral conductor when using several RCBBs 2 × screw terminal, conductor cross-section max. 16 mm² 14 × plug-in terminal, conductor cross-section max. 4 mm²	▶	8GS4 034-1		1	1 unit	043
 8GS4 034-2	PE terminals - For snap-on mounting onto the standard mounting rail 2 × screw terminal, conductor cross-section max. 16 mm² 14 × plug-in terminal, conductor cross-section max. 4 mm²	▶	8GS4 034-2		1	1 unit	043
 8GS4 034-3	N/PE terminals - For snap-on mounting onto the standard mounting rail - For distributing the neutral conductor when using several RCBBs 1 × screw terminal, conductor cross-section max. 16 mm² ¹⁾ 7 × plug-in terminal, conductor cross-section max. 4 mm² ¹⁾ Footnote ¹⁾ Per PE or N potential.	▶	8GS4 034-3		1	1 unit	043
 8GS4 034-4	N/N terminals - For snap-on mounting onto the standard mounting rail - For distributing the neutral conductor when using several RCBBs 1 × screw terminal, conductor cross-section max. 16 mm² ¹⁾ 7 × plug-in terminal, conductor cross-section max. 4 mm² ¹⁾ Footnote ¹⁾ Per PE or N potential.	▶	8GS4 034-4		1	1 unit	043
 8US19 21-2AA00 ... AD00	Terminals for circular conductors Versions - Busbar thickness 5 mm - Conductor cross-section 1.5 ... 16 mm² - Conductor cross-section 1.5 ... 35 mm² - Conductor cross-section 16 ... 70 mm² - Conductor cross-section 16 ... 120 mm²	▶	8US1 921-2AA00		100	100 units	143
		▶	8US1 921-2AB00		100	50 units	143
		▶	8US1 921-2AD00		1	50 units	143
		▶	8US1 921-2AC00		1	50 units	143
	- Busbar thickness 10 mm - Conductor cross-section 1.5 ... 16 mm² - Conductor cross-section 1.5 ... 35 mm² - Conductor cross-section 16 ... 70 mm² - Conductor cross-section 16 ... 120 mm²	▶	8US1 921-2BA00		1	100 units	143
		▶	8US1 921-2BB00		1	50 units	143
		▶	8US1 921-2BD00		1	50 units	143
		▶	8US1 921-2BC00		1	50 units	143
 8GK9 920-0KK24	Replacement door hinges - For wall/floor-mounted distribution boards 1 set = 2 hinges		8GK9 920-0KK24		1	1 set	038

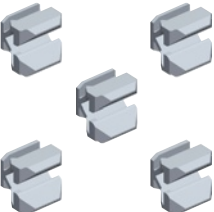
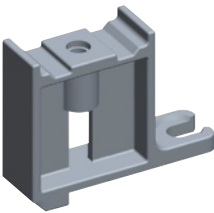
ALPHA 400 Distribution Boards

Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
	Partitions - For the visual and spatial separation of different potentials - Material plastic - For mounting depth 210 mm						
	Versions - Vertical - Height 300 mm - Height 450 mm - Height 600 mm - Height 750 mm - Horizontal - Width 250 mm - Width 500 mm - Width 750 mm						
	8GK9 301-2KK01		8GK9 301-2KK01 8GK9 301-3KK01 8GK9 101-4KK01 8GK9 101-5KK01		1 1 1 1	1 unit 1 unit 1 unit 1 unit	039 039 039 039
	8GK9 103-0KK10		8GK9 101-6KK01 8GK9 101-7KK01 8GK9 101-8KK01 8GK9 102-8KK01		1 1 1 1	1 unit 1 unit 1 unit 1 unit	039 039 039 039
	8GK9 910-0KK00		8GK9 103-0KK10 8GK9 103-0KK20 8GK9 103-0KK30		1 1 1	1 unit 1 unit 1 unit	039 039 039
	Blanking strips Color RAL 7035 (light gray)						
	Versions - For 12 MW (1 MW = 18 mm) - Length 1 m without pressure-relief joint, to cut to length		8GK9 910-0KK00 8GK9 910-0KK01		1 1	10 units 1 unit	039 039
	8GK9 920-0KK31		8GK9 920-0KK31		1	1 unit	039
	Connecting kits, IP43/IP55 - For side-by-side mounting of enclosures - Comprising: - Screws - Washers - Nuts 10 m roll of sealing strip						
	Note						
	A bushing flange is required for electrical connections!						
	8GK9 910-0KK80		8GK9 910-0KK80		1	200 units	039
	Cable holders on standard mounting rail - Height 45 mm - Width 40 mm						
	8GK9 910-0KK27		8GK9 910-0KK27		1	1 unit	039
	ALPHA assembly tools - For supports - Short and long version - With ergonomic handle						
	8GK9 910-0KK34		8GK9 910-0KK34		1	1 set	039
	Extra-deep brackets - For recessed installation of stand. mounting rails 1 set = 2 brackets including mounting material						
	8GK9 911-0KK00		8GK9 911-0KK00		1	500 units	039
	Screws - Self-tapping - M5 x 10 - Large pack: 500 units						

ALPHA 400 Distribution Boards

Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
 Extra-deep brackets • Depth-adjustable • Large pack: 10 units 8GK9 911-0KK01		8GK9 911-0KK01		1	10 units	039
 Drop-down brackets, universal • Large pack: 10 units 8GK9 911-0KK02		8GK9 911-0KK02		1	10 units	039
 Support extensions  • 7.5 mm • Large pack: 100 units 8GK9 911-0KK03		8GK9 911-0KK03		1	100 units	039
 Iso supports • For insulated standard mounting rail assembly • Large pack: 50 units Versions in mm 12 31.5 55.5 8GK9 911-0KK05		8GK9 911-0KK04 8GK9 911-0KK05 8GK9 911-0KK06		1 1 1	50 units 50 units 50 units	039 039 039
 Standard mounting rails, lowered Width in mm 250 500 750 8GK9 910-0KK35		8GK9 910-0KK35 8GK9 910-0KK40 8GK9 910-0KK41		1 1 1	1 unit 1 set 1 set	039 039 039

ALPHA 400 Distribution Boards

Notes

ALPHA 630

Distribution Boards

17.4



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17.4/7 Unequipped distribution boards

8GK1 surface-mounting
distribution boards, IP43

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distribution boards, IP55

17.4/10 Marshaling boxes

17.4/11 Assembly kits for unequipped distribution boards

17.4/18 Accessories

17.4/24 Accessories - Ordering large quantities

More technical product information:

Service&Support portal:

[www.siemens.com/lowvoltage/
technical-support](http://www.siemens.com/lowvoltage/technical-support)

→ Product list:
Technical specifications

→ Entry list:
Updates / Downloads / FAQs
Manuals / Operating instructions /
Characteristic curves / Certificates

ALPHA 630 Distribution Boards

Introduction

Overview

		Devices	Page	Surface-mounting distribution boards	Flush-mounting distribution boards	Rated current	Cubicle depth	Safety class	
								1	2
	ALPHA SIMBOX small distribution boards	SIMBOX XL: Flush-mounting and hollow-wall distribution boards	17.1/4	--	✓	63	88 ¹⁾	--	✓
		SIMBOX XL: Surface-mounting distribution boards IP30	17.1/8	✓	--	63	99	--	✓
		SIMBOX WP: Surface-mounting distribution boards IP65	17.1/10	✓	--	63	100/140/160	--	✓
	ALPHA 160 DIN technology distribution boards	Cubicle, partially equipped	17.2/6	✓	✓	160	140	--	✓
		Unequipped distribution board	17.2/6	✓	✓	160	140	--	✓
	ALPHA 400 DIN technology distribution boards	Unequipped distribution board, flat pack	17.3/9	✓	--	400	210	✓	✓
		Unequipped distribution board, pre-assembled	17.3/10	✓	✓	400	210	✓	✓
	ALPHA 630 DIN technology distribution boards	Unequipped distribution board, flat pack	17.4/7	✓	--	630	210	✓	✓
		Unequipped distribution board, pre-assembled	17.4/7	✓	--	630	210 / 250 / 320	✓	✓
		Unequipped distribution board, pre-assembled, with open side panels	17.4/8	✓	--	630	250 / 320	✓	--
	ALPHA AS 1250 DIN technology distribution boards	Unequipped distribution board, pre-assembled	17.5/7	✓	--	1250	400	✓	--

¹⁾ Mounting depth

Degree of protection	VDE	EN	DIN	IEC	Meets requirements of 8.2.1 - 8.2.7 according to EN 60439-1	Meets requirements of 8.2.9 - 8.2.15 according to EN 60439-3
IP30	DIN VDE 0603	--	DIN 43871	--	--	--
IP30	DIN VDE 0603	--	DIN 43871	--	--	--
IP65	DIN VDE 0603-1, DIN VDE 0660-500/504	EN 60439-1/-3	DIN 43871	IEC 60439-1/-3	✓	✓
IP31 / IP43	DIN VDE 0660-500/504	EN 60439-1/-3	--	IEC 60439-1/-3	✓	✓
IP43	DIN VDE 0660-500/504	EN 60439-1/-3	--	IEC 60439-1/-3	✓	✓
IP31 / IP43 / IP55						
IP43	DIN VDE 0660-500/504	EN 60439-1/-3	--	IEC 60439-1/-3	✓	✓
IP43 / IP55						
IP55						
IP55	DIN VDE 0660-500/504	EN 60439-1/-3	--	Type verification according to IEC 61439-2	✓	✓

ALPHA 630 Distribution Boards

Introduction

System

The modular design of our Siemens distribution board system draws on our long years of experience in the distribution board sector.

This system has been tailored to meet individual requirements for distribution board installation.

The system comprises flat-packed unequipped distribution boards (delivery in individual parts for self-assembly, [see also Part 3](#)) in degree of protection IP43, pre-assembled unequipped distribution boards in degree of protection IP55, assembly kits for project-related and individual assembly, as well as an extensive range of accessories.

Enclosures

- Material: Electrogalvanized and powder-coated sheet steel
- Sheet thickness, degree of protection IP43/IP55: body 1 mm, door 1 mm
- Color: RAL 7035 (light gray), further RAL colors available on request.

Assembly kits

The assembly kits are made of sendzimir-galvanized sheet steel and are equipped with molded-plastic covers for a wide range of equipping options, e.g. with switching devices and modular installation devices.

The largest switching devices that can be installed in the ALPHA 630 DIN technology distribution boards are Siemens switching devices with a maximum rated current of 630 A.

Cabinet dimensions

All dimensions are stated 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 panel-size grid dimensions, height × width: 150 × 250.

Benefits

- Plan and configure quickly, simply and conveniently with the ALPHA SELECT software – also available on the DVD enclosed with the paper catalog.
- Delivery options:
 - Flat pack (assembly kit for self-assembly)
 - Unequipped distribution board - pre-assembled
 - The cabinet-high quick-assembly kits and the assembly kits can be mounted directly onto the platform (rear panel)
 - **Additional mounting stays are required for mounting the assembly kits! 2 longitudinal stays per panel width must be ordered separately for the assembly kits.**
- Easy planning thanks to modular design
- Ample wiring space behind the standard mounting rail
- Comprehensive range of assembly kits for individual and project-related assembly for Siemens switching devices and modular installation devices
- Easy assembly thanks to keyhole-fastened components and modules with quick-acting locks
- System concept according to DIN, EN and VDE standards
- Solid sheet-steel enclosure
- Degrees of protection: IP43 and IP55
- Safety class 1 (protective conductor connection) and safety class 2 (total insulation)
- High-quality surface finish: distribution boards made of electrogalvanized and powder-coated sheet steel, system components made of sendzimir-galvanized sheet steel, galvanized and transparently chromated small components and screws
- Doors can be hinged on the right or left
- Door opening angle of 170°
- Replaceable locking systems (accessories)
- Front cover with sealable 90° quick-acting locks
- Environmentally-friendly and recyclable plastics.

Application

The ALPHA 630 DIN technology distribution boards are used for all applications for which the ALPHA 400 DIN technology distribution boards do not provide sufficient equipping or wiring space, e.g. in administrative, non-residential, commercial and industrial buildings.

With three different mounting depths of 210 mm, 250 mm and 320 mm they round off the Siemens distribution board product range.

The distribution board and its components are of modular design.

With just a few standard components, it is possible to achieve a wide range of project-related mounting and equipping options.

The ALPHA 630 DIN technology distribution board range comprises wall-mounted distribution boards with up to 12 modular installation devices, each with 12 MW per mounting width (250 mm). The standard mounting rail tier spacing is 150 mm. A total of 5 cabinet mounting widths are available, each with an internal dimension of 250 mm.

The distribution boards are designed to meet safety class 1 (protective conductor connection) and safety class 2 (total insulation). The standard degree of protection for floor-mounted distribution boards with a depth of 210 mm is IP43 (flat pack: delivery in individual parts) and IP55 (unequipped distribution board, pre-assembled) with depths of 250 mm and 320 mm. The rated current is 630 A.

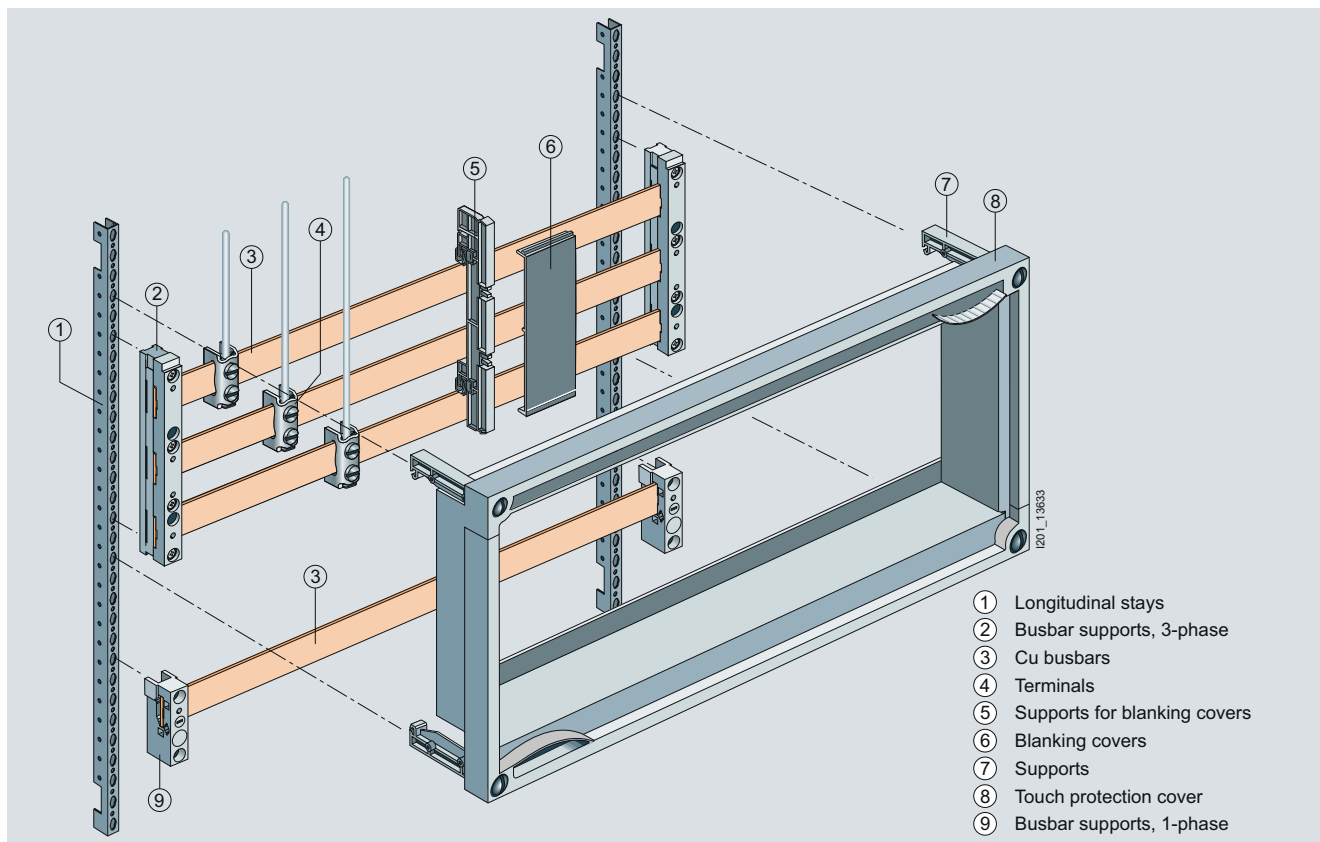
40 mm or 60 mm busbar systems with dimensions up to 30 mm × 10 mm can be installed.

The modular design of the board enables easy planning, configuration, calculation, ordering and mounting.

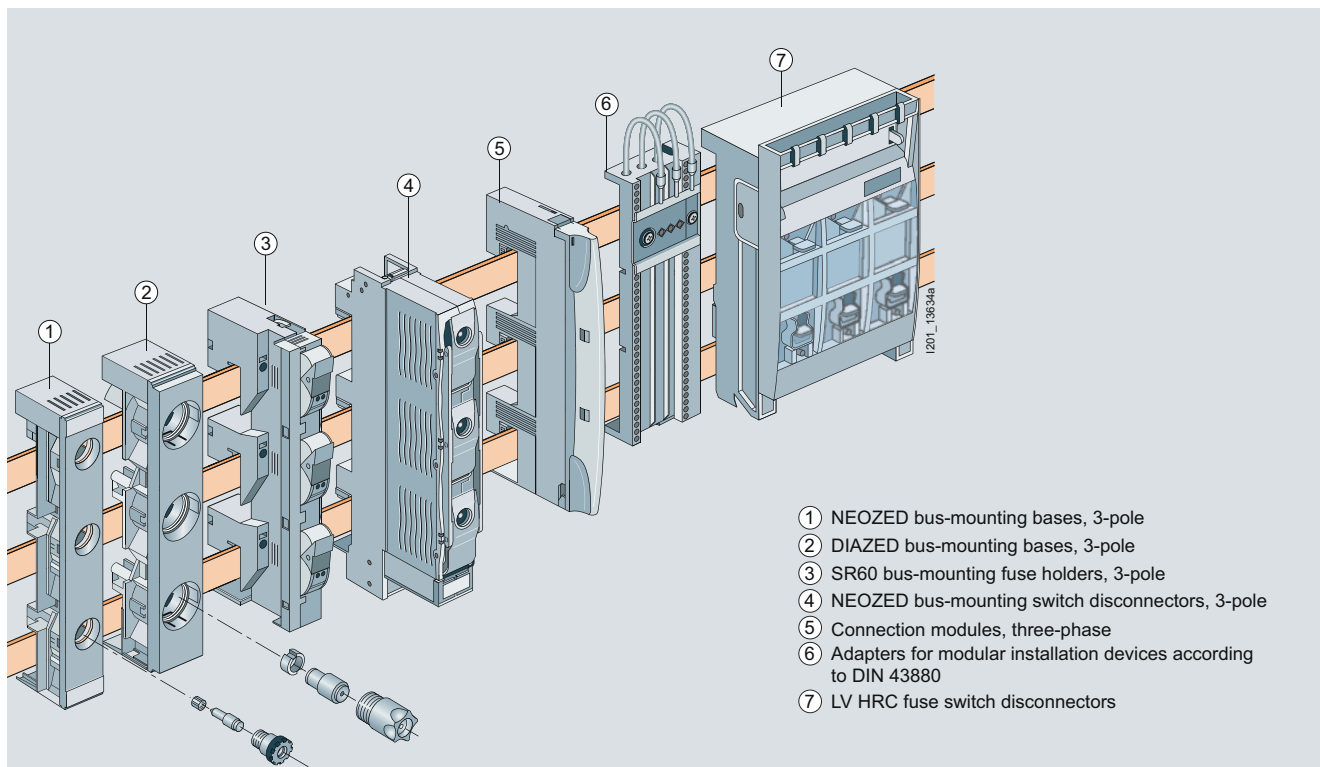
Assembly kits that only require a one-size screwdriver for assembly are available for all mountable switching devices and modular installation devices.



Design



Distribution board components for the SR60 busbar system, 60 mm



Built-in components for the SR60 busbar system, 60 mm

ALPHA 630 Distribution Boards

Introduction

Technical specifications

Overvoltage category	III
Rated impulse withstand voltage U_{imp} in kV	6
Clearance and creepage distances	EN 60664-1
Rated insulation voltage U_i in V	690
Rated operational voltage U_o in V AC/DC	690
Rated voltage U_n (40 Hz ... 60 Hz AC) in V	690 for built-in devices
Rated current in A	up to 630
Rated peak short-circuit current I_{pk} in kA	Up to 76 (3-pole) ²⁾
Rated short-time current I_{cw} in kA	34, conduction interval of 1 s
Protective measures	Safety class 1 (protective conductor connection) Safety class 2 (total insulation)
Number of conductors in the busbar run	4/5
Degree of protection acc. to EN 60529	IP43 with door, IP55 with door (with matching flanges)
Standard mounting rail tier spacing per standard mounting rail tier in mm	150
Modular width (MW)	18 mm, 12 MW + 1 mountable MW
Pollution degree	3
Ambient temperature in °C	35 (24-h mean value)
Relative air humidity in %	50 at 40 °C
Test specifications	EN 60439-1/3 (VDE 0660 Part 500/504)
Enclosures	Sheet steel
Mounting dimensions	DIN 43870
Surface	Electrogalvanized and powder-coated
Color ¹⁾	RAL 7035 (light gray)
Lock	3-point locking with integrated espagnolette lock (can be replaced with other locking systems if required)
Packing material	Shock-proof, environmentally-friendly

¹⁾ Further RAL colors are available on request.

²⁾ Busbar support spacing: 250 mm, Cu busbars 30 mm × 10 mm.

Cabinet dimensions

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

ALPHA 630 Distribution Boards

Unequipped Distribution Boards

8GK1 surface-mounting distribution boards, IP43

Overview

- Delivery options:
 - Flat pack (assembly kit for self-assembly)
 - Unequipped distribution board - pre-assembled
 - The cabinet-high quick-assembly kits and the assembly kits can be mounted directly onto the platform (rear panel)
 - Additional mounting stays are required for mounting the assembly kits! 2 longitudinal stays per panel width must be ordered separately for the assembly kits.**
- Cabinet depth of 210 mm
- Safety class 1 (protective conductor) and 2 (total insulation)
- Degree of protection IP43
- Color RAL 7035 (light gray)
- Unassembled enclosure (with base) with unassembled enclosed door or pre-assembled enclosure (with base) complete with door and espagnolette lock, which can be replaced with other locking systems. Distribution boards with a width of 750 mm/800 mm or more will be supplied with a double door.
- Flanges: one 2-component flange at the top per panel width

Selection and ordering data

Internal/external dimensions with base		Panel width	DT	Surface-mounting distribution boards							
Height	Width			Safety class 1	PU	PS*/	PG	DT	Safety class 2	PU	PS*/
mm	mm			Order No.	(UNIT, SET, M)	P. unit			Order No.	(UNIT, SET, M)	P. unit
Cabinet depth of 210 mm				Type of delivery: flat pack, degree of protection IP43							
1800/1950	250/300			8GK1 302-8KK12	1	1 unit	039		8GK1 312-8KK12	1	1 unit
	500/550			8GK1 302-8KK22	1	1 unit	039		8GK1 312-8KK22	1	1 unit
	750/800			8GK1 302-8KK32	1	1 unit	039		8GK1 312-8KK32	1	1 unit
	1000/1050			8GK1 302-8KK42	1	1 unit	039		8GK1 312-8KK42	1	1 unit
	1250/1300			8GK1 302-8KK52	1	1 unit	039		8GK1 312-8KK52	1	1 unit
Cabinet depth of 210 mm				Delivery as pre-assembled unequipped distribution board, degree of protection IP43							
1800/1950	250/300			8GK1 322-8KK12	1	1 unit	039		8GK1 332-8KK12	1	1 unit
	500/550			8GK1 322-8KK22	1	1 unit	039		8GK1 332-8KK22	1	1 unit
	750/800			8GK1 322-8KK32	1	1 unit	039		8GK1 332-8KK32	1	1 unit
	1000/1050			8GK1 322-8KK42	1	1 unit	039		8GK1 332-8KK42	1	1 unit
	1250/1300			8GK1 322-8KK52	1	1 unit	039		8GK1 332-8KK52	1	1 unit

Accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Longitudinal stays - To mount the assembly kits in unequipped distribution boards, 2 longitudinal stays are required for each assembly kit width - Height 1800 mm, width 210 mm 1 set = 2 stays		8GK4 853-8KK00		1	1 set	039
Connecting kits for longitudinal stays - Connecting plate for stays 1 set = 4 units		8GK9 910-0KK32		1	1 unit	039

8GK9 910-0KK32

For assembly kits see page 17.4/11 ff.

For accessories see page 17.4/18 ff.

ALPHA 630 Distribution Boards

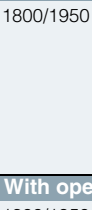
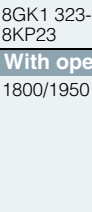
Unequipped Distribution Boards

8GK1 surface-mounting distribution boards, IP55

Overview

- Type of delivery: Unequipped distribution board - pre-assembled
- Cabinet depths: 250 mm and 320 mm
- Safety class 1 (protective conductor connection) and safety class 2 (total insulation)
- IP55 degree of protection
- Color RAL 7035 (light gray)
- Unassembled enclosure (with base) with unassembled enclosed door or pre-assembled enclosure (with base) complete with door and espagnolette lock, which can be replaced with other locking systems. Distribution boards with a width of 750 mm/800 mm or more will be supplied with a double door.
- SCII flange:
 - Depth 250 mm: per panel width: one 2-component flange each at the top and bottom
 - Depth 320 mm: per panel width: two 2-component flange each at the top and bottom
- SCI flange:
 - Depth 250 mm: per panel width: one 2-component flange each at the top
 - Depth 320 mm: two 2-component flanges per panel width at the top (to achieve degree of protection IP55, a 2-component flange is also required at the bottom; please order separately if required)

Selection and ordering data

Internal/external dimensions		Panel width	ALPHA 630 DIN technology distribution boards, delivered as pre-assembled unequipped distribution boards, degree of protection: IP55, color: RAL 7035													
Height	Width		DT	Safety class 1		Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	DT	Safety class 2		Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
				Order No.							Order No.					
With closed side panel, cabinet depth 250 mm																
	1800/1950	300		8GK1 323-8KN13	1	1 unit	039	8GK1 333-8KN13	1	1 unit	039	8GK1 333-8KN13	1	1 unit	039	8GK1 333-8KN13
		550		8GK1 323-8KN23	1	1 unit	039	8GK1 333-8KN23	1	1 unit	039	8GK1 333-8KN23	1	1 unit	039	8GK1 333-8KN23
		800		8GK1 323-8KN33	1	1 unit	039	8GK1 333-8KN33	1	1 unit	039	8GK1 333-8KN33	1	1 unit	039	8GK1 333-8KN33
		1050		8GK1 323-8KN43	1	1 unit	039	8GK1 333-8KN43	1	1 unit	039	8GK1 333-8KN43	1	1 unit	039	8GK1 333-8KN43
		1300		8GK1 323-8KN53	1	1 unit	039	8GK1 333-8KN53	1	1 unit	039	8GK1 333-8KN53	1	1 unit	039	8GK1 333-8KN53
With closed side panel, cabinet depth 320 mm																
	1800/1950	300		8GK1 323-8KN14	1	1 unit	039	8GK1 333-8KN14	1	1 unit	039	8GK1 333-8KN14	1	1 unit	039	8GK1 333-8KN14
		550		8GK1 323-8KN24	1	1 unit	039	8GK1 333-8KN24	1	1 unit	039	8GK1 333-8KN24	1	1 unit	039	8GK1 333-8KN24
		800		8GK1 323-8KN34	1	1 unit	039	8GK1 333-8KN34	1	1 unit	039	8GK1 333-8KN34	1	1 unit	039	8GK1 333-8KN34
		1050		8GK1 323-8KN44	1	1 unit	039	8GK1 333-8KN44	1	1 unit	039	8GK1 333-8KN44	1	1 unit	039	8GK1 333-8KN44
		1300		8GK1 323-8KN54	1	1 unit	039	8GK1 333-8KN54	1	1 unit	039	8GK1 333-8KN54	1	1 unit	039	8GK1 333-8KN54
With open side panel, cabinet depth 250 mm																
	1800/1950	300		8GK1 323-8KP13	1	1 unit	039	--			--					
		550		8GK1 323-8KP23	1	1 unit	039	--			--					
		800		8GK1 323-8KP33	1	1 unit	039	--			--					
		1050		8GK1 323-8KP43	1	1 unit	039	--			--					
		1300		8GK1 323-8KP53	1	1 unit	039	--			--					
With open side panel, cabinet depth 320 mm																
	1800/1950	300		8GK1 323-8KP14	1	1 unit	039	--			--					
		550		8GK1 323-8KP24	1	1 unit	039	--			--					
		800		8GK1 323-8KP34	1	1 unit	039	--			--					
		1050		8GK1 323-8KP44	1	1 unit	039	--			--					
		1300		8GK1 323-8KP54	1	1 unit	039	--			--					

ALPHA 630 Distribution Boards

Unequipped Distribution Boards

8GK1 surface-mounting distribution boards, IP55

Version		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG						
	Side panels - Gray - Depth 250/320 mm		8GK9 520-0KK03		1	1 set	039						
8GK9 520-0KK03													
Accessories													
	Longitudinal stays, (latchable pivot stays) - To mount the assembly kits in unequipped distribution boards, 2 longitudinal stays are required for each assembly kit width - Height 1800 mm - Depth 250/320 mm 1 set = 2 stays		8GK4 853-8KK02		1	1 set	039						
8GK4 853-8KK02													
	Connecting kits for longitudinal stays - Connecting plate for stays 1 set = 4 units		8GK9 910-0KK32		1	1 unit	039						
8GK9 910-0KK32													
	Masking frames - Sheet steel - For recessed installation of stays - Height 1800 mm <table><tr><th>Width in mm</th></tr><tr><td>250</td></tr><tr><td>500</td></tr><tr><td>750</td></tr><tr><td>1000</td></tr><tr><td>1250</td></tr></table>	Width in mm	250	500	750	1000	1250		8GK9 913-0KK10 8GK9 913-0KK20 8GK9 913-0KK30 8GK9 913-0KK40 8GK9 913-0KK50		1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	039 039 039 039 039
Width in mm													
250													
500													
750													
1000													
1250													
8GK9 913-0KK30													

For assembly kits [see page 17.4/11 ff.](#)

For accessories [see page 17.4/18 ff.](#)

ALPHA 630 Distribution Boards

Marshaling boxes

Selection and ordering data

Version					DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG		
Surface-mounting distribution boards Safety class 1 • Marshaling boxes for supporting the incoming/outgoing cables, option for terminal blocks available • Large, foamed front cover with fixing screws • Color RAL 7035 (light gray)												
	Marshaling box depth in mm	Degree of protection	External dimensions in mm		Panel width							
			Height	Width								
			210	IP43						350	300	
										550	300	
						800	300					
			1050	300								
			1300	300								
8GK1 382-0KK12												
	250	IP55	350	300		8GK1 383-0KK13		1	1 unit	039		
						8GK1 383-0KK23		1	1 unit	039		
						8GK1 383-0KK33		1	1 unit	039		
						8GK1 383-0KK43		1	1 unit	039		
						8GK1 383-0KK53		1	1 unit	039		
8GK1 383-0KK13												
	320	IP55	350	300		8GK1 383-0KK14		1	1 unit	039		
						8GK1 383-0KK24		1	1 unit	039		
						8GK1 383-0KK34		1	1 unit	039		
						8GK1 383-0KK44		1	1 unit	039		
						8GK1 383-0KK54		1	1 unit	039		
8GK1 383-0KK14												
Note												
Flanges and 8GK9 920-0KK31 connecting kit must be ordered separately, see accessories on page 17.4/18 ff.												

Accessories



8GK4 855-2KK02

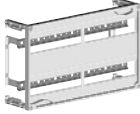
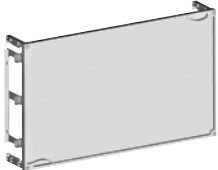
Longitudinal stays, for marshaling boxes

- Stays are available for mounting in the marshaling boxes
- Height 300 mm, depth 210 mm/250 mm/320 mm
- 1 set = 2 stays

8GK4 855-2KK02 1 1 set 039

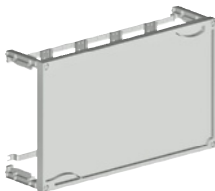
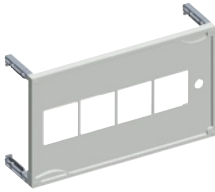
Assembly kits for unequipped distribution boards

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Assembly kits, for modular installation devices • Tier spacing of 150 mm, without N/PE bar • Panel-size grid dimensions H × W (mm): 150 × 250 • Assembly kits for individual and project-related assembly, comprising: device racks, front cover including supports, screws and mounting accessories • The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports.						
External dimensions in mm		Tiers/MW				
Height	Width					
 8GK4 351-1KK12	150	250	1/12	8GK4 351-1KK12 8GK4 351-1KK22 8GK4 351-1KK32	1	1 unit 039
		500	1/24		1	1 unit 039
		750	1/36		1	1 unit 039
 8GK4 351-2KK12	300	250	2/24	8GK4 351-2KK12 8GK4 351-2KK22 8GK4 351-2KK32	1	1 unit 039
		500	2/48		1	1 unit 039
		750	2/72		1	1 unit 039
 8GK4 351-3KK12	450	250	3/36	8GK4 351-3KK12 8GK4 351-3KK22 8GK4 351-3KK32	1	1 unit 039
		500	3/72		1	1 unit 039
		750	3/108		1	1 unit 039
 8GK4 351-4KK12	600	250	4/48	8GK4 351-4KK12 8GK4 351-4KK22 8GK4 351-4KK32	1	1 unit 039
		500	4/96		1	1 unit 039
		750	4/144		1	1 unit 039
Note						
• For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see pages 17.4/7 and 17.4/9). • The quick-assembly kits with a width of 250 mm are equipped with 7.5 mm standard mounting rails. • The assembly kits with a width of 500/750 mm are equipped with 15 mm standard mounting rails. • For accessories see page 17.4/21 ff						
Assembly kits for horizontal terminal blocks • Terminal blocks with graded insulation design, with closed front cover • Assembly kits for individual and project-related assembly, comprising: device racks, front cover including supports, screws and mounting accessories • Panel-size grid dimensions H × W (mm): 150 × 250 • The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports.						
External dimensions in mm						
Height	Width					
 8GK4 401-3KK32	150	250	8GK4 401-1KK12			
	300	250	8GK4 401-2KK12			
		500	8GK4 401-2KK22			
	750	8GK4 401-2KK32				
450	250	8GK4 401-3KK12				
	500	8GK4 401-3KK22				
	750	8GK4 401-3KK32				
Note						
For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see pages 17.4/7 and 17.4/9).						

ALPHA 630 Distribution Boards

Assembly kits for unequipped distribution boards

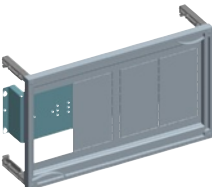
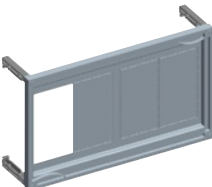
Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG																																																																																														
 8GK4 402-2KK12 Assembly kits for vertical terminal blocks - Terminal blocks, separate design, with closed front cover - Assembly kits for individual and project-related assembly, comprising: device racks, front cover including supports, screws and mounting accessories - Panel-size grid dimensions H × W (mm): 150 × 250 - The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. <table><tr><th colspan="2">External dimensions in mm</th></tr><tr><th>Height</th><th>Width</th></tr><tr><td rowspan="3">300</td><td>250</td></tr><tr><td>500</td></tr><tr><td>750</td></tr><tr><td rowspan="3">450</td><td>250</td></tr><tr><td>500</td></tr><tr><td>750</td></tr><tr><td rowspan="3">600</td><td>250</td></tr><tr><td>500</td></tr><tr><td>750</td></tr></table> Note For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see pages 17.4/7 and 17.4/9). <table><tr><td>8GK4 402-2KK12</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 402-2KK22</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 402-2KK32</td><td>1</td><td>1 unit</td><td>039</td></tr></table><table><tr><td>8GK4 402-3KK12</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 402-3KK22</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 402-3KK32</td><td>1</td><td>1 unit</td><td>039</td></tr></table><table><tr><td>8GK4 402-4KK12</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 402-4KK22</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 402-4KK32</td><td>1</td><td>1 unit</td><td>039</td></tr></table>	External dimensions in mm		Height	Width	300	250	500	750	450	250	500	750	600	250	500	750	8GK4 402-2KK12	1	1 unit	039	8GK4 402-2KK22	1	1 unit	039	8GK4 402-2KK32	1	1 unit	039	8GK4 402-3KK12	1	1 unit	039	8GK4 402-3KK22	1	1 unit	039	8GK4 402-3KK32	1	1 unit	039	8GK4 402-4KK12	1	1 unit	039	8GK4 402-4KK22	1	1 unit	039	8GK4 402-4KK32	1	1 unit	039																																																
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8GK4 402-4KK32	1	1 unit	039																																																																																																	
 8GK4 500-2KK20 Assembly kit front covers, for measuring devices Note - For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see pages 17.4/7 and 17.4/9). - For accessories see page 17.4/21 ff <table><tr><td>8GK4 500-2KK20</td><td>1</td><td>1 unit</td><td>039</td></tr></table>	8GK4 500-2KK20	1	1 unit	039																																																																																																
8GK4 500-2KK20	1	1 unit	039																																																																																																	
 8GK4 501-4KK12 Assembly kits for unequipped panels - Gray - Assembly kits for individual and project-related assembly, comprising: front cover including supports, screws and mounting accessories - Panel-size grid dimensions H × W (mm): 150 × 250 - The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. <table><tr><th colspan="2">External dimensions in mm</th></tr><tr><th>Height</th><th>Width</th></tr><tr><td rowspan="2">75</td><td>250</td></tr><tr><td>500</td></tr><tr><td rowspan="3">150</td><td>250</td></tr><tr><td>500</td></tr><tr><td>750</td></tr><tr><td rowspan="3">300</td><td>250</td></tr><tr><td>500</td></tr><tr><td>750</td></tr><tr><td rowspan="3">450</td><td>250</td></tr><tr><td>500</td></tr><tr><td>750</td></tr><tr><td rowspan="3">600</td><td>250</td></tr><tr><td>500</td></tr><tr><td>750</td></tr><tr><td rowspan="3">750</td><td>250</td></tr><tr><td>500</td></tr><tr><td>750</td></tr></table> Note - For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see pages 17.4/7 and 17.4/9). - For accessories see page 17.4/21 ff <table><tr><td>8GK4 501-0KK12</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 501-0KK22</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 501-1KK12</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 501-1KK22</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 501-1KK32</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 501-2KK12</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 501-2KK22</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 501-2KK32</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 501-3KK12</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 501-3KK22</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 501-3KK32</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 501-4KK12</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 501-4KK22</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 501-4KK32</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 501-5KK12</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 501-5KK22</td><td>1</td><td>1 unit</td><td>039</td></tr><tr><td>8GK4 501-5KK32</td><td>1</td><td>1 unit</td><td>039</td></tr></table>	External dimensions in mm		Height	Width	75	250	500	150	250	500	750	300	250	500	750	450	250	500	750	600	250	500	750	750	250	500	750	8GK4 501-0KK12	1	1 unit	039	8GK4 501-0KK22	1	1 unit	039	8GK4 501-1KK12	1	1 unit	039	8GK4 501-1KK22	1	1 unit	039	8GK4 501-1KK32	1	1 unit	039	8GK4 501-2KK12	1	1 unit	039	8GK4 501-2KK22	1	1 unit	039	8GK4 501-2KK32	1	1 unit	039	8GK4 501-3KK12	1	1 unit	039	8GK4 501-3KK22	1	1 unit	039	8GK4 501-3KK32	1	1 unit	039	8GK4 501-4KK12	1	1 unit	039	8GK4 501-4KK22	1	1 unit	039	8GK4 501-4KK32	1	1 unit	039	8GK4 501-5KK12	1	1 unit	039	8GK4 501-5KK22	1	1 unit	039	8GK4 501-5KK32	1	1 unit	039					
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Assembly kits for unequipped distribution boards

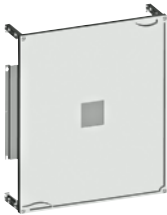
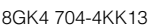
Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG																																
 8GK4 501-3KK23	Assembly kits for unequipped panels with deep-drawn cover, 40 mm • Assembly kits for individual and project-related assembly, comprising: front cover including supports, screws and mounting accessories • Panel-size grid dimensions H x W (mm): 150 x 250 • The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. <table><thead><tr><th colspan="2">External dimensions in mm</th></tr><tr><th>Height</th><th>Width</th></tr></thead><tbody><tr><td rowspan="3">300</td><td>250</td></tr><tr><td>500</td></tr><tr><td>750</td></tr><tr><td rowspan="3">450</td><td>250</td></tr><tr><td>500</td></tr><tr><td>750</td></tr></tbody></table> Note • For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see pages 17.4/7 and 17.4/9). • For accessories see page 17.4/21 ff.	External dimensions in mm		Height	Width	300	250	500	750	450	250	500	750		8GK4 501-2KK13 8GK4 501-2KK23 8GK4 501-2KK33	1 1 1	1 unit 1 unit 1 unit	039 039 039																				
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		8GK4 501-3KK13 8GK4 501-3KK23 8GK4 501-3KK33	1 1 1	1 unit 1 unit 1 unit	039 039 039																																	
 8GK4 451-4KK12	Assembly kits with mounting plates • With closed front cover • Assembly kits for individual and project-related assembly, comprising: mounting plate, front cover including supports, mounting brackets (depth-adjustable), screws and mounting accessories • Panel-size grid dimensions H x W (mm): 150 x 250 • The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. <table><thead><tr><th colspan="2">External dimensions in mm</th><th colspan="2">Mounting plate dimensions in mm</th></tr><tr><th>Height</th><th>Width</th><th>Height</th><th>Width</th></tr></thead><tbody><tr><td rowspan="3">300</td><td>250</td><td rowspan="3">245</td><td>207.5</td></tr><tr><td>500</td><td>457.5</td></tr><tr><td>750</td><td>707.5</td></tr><tr><td rowspan="3">450</td><td>250</td><td rowspan="3">395</td><td>207.5</td></tr><tr><td>500</td><td>457.5</td></tr><tr><td>750</td><td>707.5</td></tr><tr><td rowspan="3">600</td><td>250</td><td rowspan="3">545</td><td>207.5</td></tr><tr><td>500</td><td>457.5</td></tr><tr><td>750</td><td>707.5</td></tr></tbody></table> Note • For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see pages 17.4/7 and 17.4/9). • If the fitted mounting plate extends over several panel widths, it is not possible to place a longitudinal stay in the middle. • For accessories see page 17.4/21 ff.	External dimensions in mm		Mounting plate dimensions in mm		Height	Width	Height	Width	300	250	245	207.5	500	457.5	750	707.5	450	250	395	207.5	500	457.5	750	707.5	600	250	545	207.5	500	457.5	750	707.5		8GK4 451-2KK12 8GK4 451-2KK22 8GK4 451-2KK32	1 1 1	1 unit 1 unit 1 unit	039 039 039
External dimensions in mm		Mounting plate dimensions in mm																																				
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		8GK4 451-4KK12 8GK4 451-4KK22 8GK4 451-4KK32	1 1 1	1 unit 1 unit 1 unit	039 039 039																																	
 8GK9 533-0KK10	Cabinet-high mounting plates • With fixing screws • Sendzimir-galvanized sheet steel • For mounting on longitudinal stays • No covers available <table><thead><tr><th colspan="2">Internal dimensions of cabinet in mm</th><th colspan="2">Mounting plate dimensions in mm</th></tr><tr><th>Height</th><th>Width</th><th>Height</th><th>Width</th></tr></thead><tbody><tr><td rowspan="5">1800</td><td>250</td><td rowspan="5">1680</td><td>242</td></tr><tr><td>500</td><td>492</td></tr><tr><td>750</td><td>742</td></tr><tr><td>1000</td><td>992</td></tr><tr><td>1250</td><td>1242</td></tr></tbody></table> Note • For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see pages 17.4/7 and 17.4/9). • If these mounting plates are fitted in distribution boards of safety class II, safety class II is no longer guaranteed! • If the fitted mounting plate extends over several panel widths, it is not possible to place a longitudinal stay in the middle. • For accessories see page 17.4/21 ff.	Internal dimensions of cabinet in mm		Mounting plate dimensions in mm		Height	Width	Height	Width	1800	250	1680	242	500	492	750	742	1000	992	1250	1242		8GK9 533-0KK10 8GK9 533-0KK20 8GK9 533-0KK30 8GK9 533-0KK40 8GK9 533-0KK50	1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit	039 039 039 039 039												
Internal dimensions of cabinet in mm		Mounting plate dimensions in mm																																				
Height	Width	Height	Width																																			
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	500		492																																			
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	1000		992																																			
	1250		1242																																			

ALPHA 630 Distribution Boards

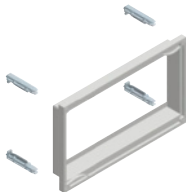
Assembly kits for unequipped distribution boards

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG																																
 8GK4 550-2KK22 Assembly kits for 3NP1 LV HRC fuse switch disconnectors, for mounting on support plates - Assembly kits for individual and project-related assembly, comprising: support plate, front cover including supports, molded-plastic masking frame, screws and mounting accessories - Panel-size grid dimensions H × W (mm): 150 × 250 - The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. <table><thead><tr><th>Assembly kit for size</th><th>LV HRC fuse switch disconnectors</th><th>Height in mm</th><th>Width in mm</th></tr></thead><tbody><tr><td>2 × 00/000</td><td>2 × 3NP1 123... / 3NP1 133...</td><td>300</td><td>250</td></tr><tr><td>4 × 00/000</td><td>4 × 3NP1 123... / 3NP1 133...</td><td></td><td>500</td></tr><tr><td>1 × 1</td><td>1 × 3NP1 143...</td><td>450</td><td>250</td></tr><tr><td>2 × 1</td><td>2 × 3NP1 143...</td><td></td><td>500</td></tr><tr><td>1 × 2</td><td>1 × 3NP1 153...</td><td>450</td><td>250</td></tr><tr><td>1 × 3</td><td>1 × 3NP1 163...</td><td></td><td>500</td></tr></tbody></table> Note - For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see pages 17.4/7 and 17.4/9). - For mounting size 000 fuse switch disconnectors you additionally require the cover 8GK9 912-0KK00 (see pages 17.4/21). - For more accessories see page 17.4/21 ff.	Assembly kit for size	LV HRC fuse switch disconnectors	Height in mm	Width in mm	2 × 00/000	2 × 3NP1 123... / 3NP1 133...	300	250	4 × 00/000	4 × 3NP1 123... / 3NP1 133...		500	1 × 1	1 × 3NP1 143...	450	250	2 × 1	2 × 3NP1 143...		500	1 × 2	1 × 3NP1 153...	450	250	1 × 3	1 × 3NP1 163...		500										
Assembly kit for size	LV HRC fuse switch disconnectors	Height in mm	Width in mm																																			
2 × 00/000	2 × 3NP1 123... / 3NP1 133...	300	250																																			
4 × 00/000	4 × 3NP1 123... / 3NP1 133...		500																																			
1 × 1	1 × 3NP1 143...	450	250																																			
2 × 1	2 × 3NP1 143...		500																																			
1 × 2	1 × 3NP1 153...	450	250																																			
1 × 3	1 × 3NP1 163...		500																																			
 8GK4 650-2KK12 Assembly kits for 3NP1 LV HRC fuse switch disconnectors, for mounting on busbars - Assembly kits for individual and project-related assembly, comprising: front cover including supports, molded-plastic masking frame, screws and mounting accessories - Panel-size grid dimensions H × W (mm): 150 × 250 - The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. <table><thead><tr><th>Assembly kit for size</th><th>LV HRC fuse switch disconnectors</th><th>Height in mm</th><th>Width in mm</th></tr></thead><tbody><tr><td>2 × 00/000</td><td>2 × 3NP1 123... / 3NP1 133...</td><td>300</td><td>250</td></tr><tr><td>4 × 00/000</td><td>4 × 3NP1 123... / 3NP1 133...</td><td></td><td>500</td></tr><tr><td>2 × 00/000</td><td>2 × 3NP1 123... / 3NP1 133...</td><td>450</td><td>250</td></tr><tr><td>4 × 00/000</td><td>4 × 3NP1 123... / 3NP1 133...</td><td></td><td>500</td></tr><tr><td>1 × 1</td><td>1 × 3NP1 143...</td><td>450</td><td>250</td></tr><tr><td>2 × 1</td><td>2 × 3NP1 143...</td><td></td><td>500</td></tr><tr><td>1 × 2</td><td>1 × 3NP1 153...</td><td></td><td>250</td></tr></tbody></table> Note - For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see pages 17.4/7 and 17.4/9). - The Cu busbar and the busbar supports must be ordered separately (see page 17.4/22). - For mounting size 000 fuse switch disconnectors you additionally require the cover 8GK9 912-0KK00 (see page 17.4/21). - For more accessories see page 17.4/21 ff.	Assembly kit for size	LV HRC fuse switch disconnectors	Height in mm	Width in mm	2 × 00/000	2 × 3NP1 123... / 3NP1 133...	300	250	4 × 00/000	4 × 3NP1 123... / 3NP1 133...		500	2 × 00/000	2 × 3NP1 123... / 3NP1 133...	450	250	4 × 00/000	4 × 3NP1 123... / 3NP1 133...		500	1 × 1	1 × 3NP1 143...	450	250	2 × 1	2 × 3NP1 143...		500	1 × 2	1 × 3NP1 153...		250						
Assembly kit for size	LV HRC fuse switch disconnectors	Height in mm	Width in mm																																			
2 × 00/000	2 × 3NP1 123... / 3NP1 133...	300	250																																			
4 × 00/000	4 × 3NP1 123... / 3NP1 133...		500																																			
2 × 00/000	2 × 3NP1 123... / 3NP1 133...	450	250																																			
4 × 00/000	4 × 3NP1 123... / 3NP1 133...		500																																			
1 × 1	1 × 3NP1 143...	450	250																																			
2 × 1	2 × 3NP1 143...		500																																			
1 × 2	1 × 3NP1 153...		250																																			

Assembly kits for unequipped distribution boards

Version			DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG	
Assembly kits for VL circuit breakers - Assembly kits for individual and project-related assembly, comprising: support plate, front cover including supports, screws and mounting accessories - Panel-size grid dimensions H × W (mm): 150 × 250 - The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports.									
Versions			External dimensions in mm						
			Height	Width					
	• 3-pole and 4-pole for VL circuit breakers - 1 × VL160/VL160X - 1 × VL160X, 1 × VL160, 1 × VL250 - 1 × VL400		300	250	8GK4 701-2KK12 8GK4 701-3KK12 8GK4 702-4KK12	1	1 unit	039	
			450	250		1	1 unit	039	
			600	250		1	1 unit	039	
	• 3-pole for VL circuit breakers - 1 × VL630		600	250		8GK4 703-4KK13	1	1 unit	039
	• 4-pole for VL circuit breakers - 1 × VL630		600	500	8GK4 704-4KK13	1	1 unit	039	
	• For installation with mounted RCD module - 1 × VL160X + RCD - 1 × VL160/VL250 + RCD - 1 × VL400 + RCD		450	250	8GK4 720-3KK10 8GK4 721-3KK10 8GK4 720-5KK10	1	1 unit	039	
			450	250		1	1 unit	039	
			750	250		1	1 unit	039	
	• For installation with front-operated rotary operating mechanism - 1 × VL160X/VL160/VL250¹⁾ - 1 × VL400²⁾		450	250	8GK4 722-3KK10 8GK4 722-4KK10	1	1 unit	039	
			600	250		1	1 unit	039	
	- 1 × VL630 3-pole ²⁾		600	250		8GK4 723-4KK10	1	1 unit	039
	- 1 × VL630 4-pole ²⁾		600	500		8GK4 721-4KK20	1	1 unit	039
Note									
• For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see pages 17.4/7 and 17.4/9).									
• For accessories see page 17.4/21 ff.									
Footnote									
1) Depth of distribution board: 250/320 mm.									
2) Depth of distribution board: 320 mm.									
Assembly kits for 3KA switch disconnectors on support plate									
Type			External dimensions in mm						
			Height	Width					
	• 1 × 3KA 50/51/52/53, mounting depth 250 mm		300	250	8GK4 707-3KK17 8GK4 707-4KK27	1	1 unit	039	
	• 1 × 3KA 55/57/58, mounting depth 320 mm		300	500		1	1 unit	039	
Note									
• For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see pages 17.4/7 and 17.4/9).									
• For accessories see page 17.4/21 ff.									
Assembly kits for meter mounting - for meter mounting (not standardized, 375 mm) - Height 450 mm - Width 250 mm - Assembly kits for individual and project-related assembly, not standardized, only for internal measurements, comprising: meter support plate with all-round partitions, screws and mounting accessories - Panel-size grid dimensions H × W (mm): 150 × 250				8GE3 713-4		1	1 unit	042	
Note									
• For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see pages 17.4/7 and 17.4/9).									
• For accessories see page 17.4/21 ff.									

Assembly kits for unequipped distribution boards

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG																
 8GK4 801-3KK12	Assembly kits for bus-mounting fuse bases for mounting on busbar systems • 3-pole • Busbar center-to-center spacing 60 mm • 7 × NEOZED D02 • Assembly kits for individual and project-related assembly, comprising: front cover including supports, busbar supports for bus-mounting fuse bases, screws and mounting accessories • Panel-size grid dimensions H × W (mm): 150 × 250 • The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports.			8GK4 801-2KK12 8GK4 801-3KK12	1	1 unit	039															
<table><tr><th colspan="2">External dimensions in mm</th></tr><tr><th>Height</th><th>Width</th></tr><tr><td>300</td><td>250</td></tr><tr><td>450</td><td>250</td></tr><tr><td colspan="2">Note</td></tr><tr><td colspan="2"> • Two busbar supports are included in the assembly kit • For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see pages 17.4/7 and 17.4/9). • The Cu busbar must be ordered separately (see page 17.4/22). • For accessories see page 17.4/21 ff. </td></tr></table>			External dimensions in mm		Height	Width	300	250	450	250	Note		• Two busbar supports are included in the assembly kit • For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see pages 17.4/7 and 17.4/9). • The Cu busbar must be ordered separately (see page 17.4/22). • For accessories see page 17.4/21 ff.		1	1 unit	039					
External dimensions in mm																						
Height	Width																					
300	250																					
450	250																					
Note																						
• Two busbar supports are included in the assembly kit • For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see pages 17.4/7 and 17.4/9). • The Cu busbar must be ordered separately (see page 17.4/22). • For accessories see page 17.4/21 ff.																						
 8GK4 801-2KK13	Assembly kits for busbar-adaptable devices for 40 mm or 60 mm busbar system • Busbar center-to-center spacing of 40 mm/60 mm • Assembly kits for individual and project-related assembly, comprising: deep-drawn front cover with supports • Panel-size grid dimensions H × W (mm): 150 × 250 • The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports.			8GK4 801-2KK13 8GK4 801-2KK23 8GK4 801-2KK33 8GK4 801-3KK13 8GK4 801-3KK23 8GK4 801-3KK33	1	1 unit	039															
<table><tr><th colspan="2">External dimensions in mm</th></tr><tr><th>Height</th><th>Width</th></tr><tr><td rowspan="3">300</td><td>250</td></tr><tr><td>500</td></tr><tr><td>750</td></tr><tr><td rowspan="3">450</td><td>250</td></tr><tr><td>500</td></tr><tr><td>750</td></tr><tr><td colspan="2">Note</td></tr><tr><td colspan="2"> • Notice: Busbar supports (8GK9 711-0KK03) not included in delivery • For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see pages 17.4/7 and 17.4/9). • The Cu busbar and the busbar supports must be ordered separately (see page 17.4/22). • For accessories see page 17.4/21 ff. </td></tr></table>			External dimensions in mm		Height	Width	300	250	500	750	450	250	500	750	Note		• Notice: Busbar supports (8GK9 711-0KK03) not included in delivery • For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see pages 17.4/7 and 17.4/9). • The Cu busbar and the busbar supports must be ordered separately (see page 17.4/22). • For accessories see page 17.4/21 ff.		1	1 unit	039	
External dimensions in mm																						
Height	Width																					
300	250																					
	500																					
	750																					
450	250																					
	500																					
	750																					
Note																						
• Notice: Busbar supports (8GK9 711-0KK03) not included in delivery • For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see pages 17.4/7 and 17.4/9). • The Cu busbar and the busbar supports must be ordered separately (see page 17.4/22). • For accessories see page 17.4/21 ff.																						
 5SH3 536	Supports for blanking cover			5SH3 536	1	4/160 units	031															
 5SH3 537	Blanking covers			5SH3 537	1	2 units	031															

ALPHA 630 Distribution Boards

Accessories

Selection and ordering data

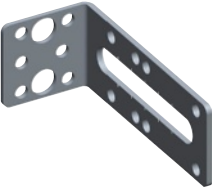
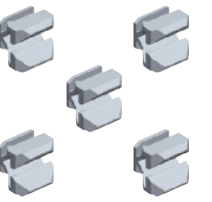
Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
For unequipped distribution boards						
Cabinet mounting lugs, flat						
Versions						
For mounting and fixing a distribution board directly against the wall without a clearance (1 set = 4 lugs including screws)		8GK9 910-0KK36		1	5 sets	039
For connecting two distribution boards and for mounting and fixing them directly against the wall without a clearance, (8GK9 910-0KK36 additionally required for the ends of a row of distribution boards) (1 set = 2 lugs including screws)		8GK9 910-0KK37		1	1 set	039
Flanges						
For fast and correct wiring						
Versions						
 8GK9 100-0KK01  8GK9 100-0KK03  8GK9 100-0KK10	1-component flanges (for IP43 distribution boards, installed on bottom panel) - For bottom cable entry, with 11 possible knockouts - Max. Ø 50.5 mm, material plastic	8GK9 100-0KK00		1	1 unit	039
	2-component flanges (degree of protection: IP55) - For top/bottom cable entry - With 44 possible knockouts - Comprising 2 elastic components	8GK9 100-0KK01		1	1 unit	039
	- Flange plate made of sheet steel (only safety class 1) - For metric screw connections, degree of protection: IP55 (2 units)	8GK9 100-0KK03		1	1 unit	039
	Connecting flanges	8GK9 100-0KK10		1	1 unit	039

Accessories

Version		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
Bases External height: 100 mm External dimensions in mm							
Depth		Width					
 8GK9 9010KA12	210	300	8GK9 901-0KK12		1	1 unit	039
		550	8GK9 901-0KK22		1	1 unit	039
		800	8GK9 901-0KK32		1	1 unit	039
		1050	8GK9 901-0KK42		1	1 unit	039
	1300	8GK9 901-0KK52		1	1 unit	039	
 8GK9 900-0KK13	250	300	8GK9 900-0KK13		1	1 unit	039
		550	8GK9 900-0KK23		1	1 unit	039
		800	8GK9 900-0KK33		1	1 unit	039
		1050	8GK9 900-0KK43		1	1 unit	039
	1300	8GK9 900-0KK53		1	1 unit	039	
 8GK9 900-0KK14	320	300	8GK9 900-0KK14		1	1 unit	039
		550	8GK9 900-0KK24		1	1 unit	039
		800	8GK9 900-0KK34		1	1 unit	039
		1050	8GK9 900-0KK44		1	1 unit	039
	1300	8GK9 900-0KK54		1	1 unit	039	
Flange plates • IP55 degree of protection • Safety class 1 • For cabinet depth 320 mm, if center plate is removed • Sheet steel, without knockouts 			8GK9 100-0KK04		1	1 unit	039
Locking systems							
Versions							
 8GK9 561-0KK01	• Rotary handles - Can be recessed, with pushbutton technique		8GK9 561-0KK01		1	1 unit	039
	• Lock insert - For installation of profile semicylinders		8GK9 561-0KK02		1	1 unit	039
	• Profile semicylinders, 40 mm, with E012 lock and 2 keys - With insert for the rotary handle - Only to be used together with the lock insert (this must be ordered separately)		8GK9 561-0KK00		1	1 unit	039
	• Profile semicylinders with Senat tumbler		8GK9 560-0KK03		1	1 unit	039
Accessories							
Spare key for E012 lock			8GF9 390-2		1	1 unit	042
 8GK9 561-0KK02							
 8GK9 561-0KK00							
Cable clamping rails • For strain relief • C-profile 30 mm x 15 mm 							
Versions							
8GK9 911-0KK10	• Width 250 mm		8GK9 911-0KK10		1	1 unit	039
	• Width 500 mm		8GK9 911-0KK20		1	1 unit	039
	• Width 750 mm		8GK9 911-0KK30		1	1 unit	039
	• Width 1000 mm		8GK9 911-0KK40		1	1 unit	039
	• Width 1250 mm		8GK9 911-0KK50		1	1 unit	039

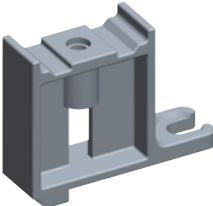
ALPHA 630 Distribution Boards

Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
	Circuit diagram pockets						
	Versions						
	• DIN A 3, made of sheet steel, depth 10 mm • DIN A 4, transparent sleeve • DIN A 4, made of plastic, depth 30 mm		8GK9 910-0KK22		1	1 unit	039
			8GK9 910-0KK23		1	20 units	039
8GK9 910-0KK22			8GD9 132		1	1 unit	042
	Siemens nameplates		8GD9 084		1	1 unit	042
8GD9 084	Made of aluminum, self-adhesive, color: petrol						
	Crossbeams						
	Versions						
	• Width 500 mm • Width 750 mm		8GK4 853-0KK20		1	2 units	039
8GK4 853-0KK20			8GK4 853-0KK30		1	2 units	039
	Partitions						
	• Sheet steel • For mounting depth 250/320 mm						
	Versions						
	• Vertical (Vertical separation for 320 mm depth only: at a depth of 250 mm, the stays reach the rear panel) - Height 1800 mm		8GK9 520-8KK00		1	1 unit	039
8GK9 520-8KK00							
	• Horizontal (for 250 mm depth: push separation back to break it off) - Width 250 mm - Width 500 mm		8GK9 520-0KK10		1	1 unit	039
			8GK9 520-0KK20		1	1 unit	039
8GK9 520-0KK20							
	Screws		8GK9 911-0KK00		1	500 units	039
	• Self-tapping • M5 x 10 • Large pack: 500 units						
8GK9 911-0KK00							
	Extra-deep brackets		8GK9 911-0KK01		1	10 units	039
	• Depth-adjustable • Large pack: 10 units						
8GK9 911-0KK01							
	Drop-down brackets, universal		8GK9 911-0KK02		1	10 units	039
	Large pack: 10 units						
8GK9 911-0KK02							
	Support extensions 		8GK9 911-0KK03		1	100 units	039
	• 7.5 mm • Large pack: 100 units						
8GK9 911-0KK03							

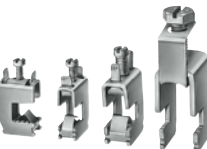
ALPHA 630 Distribution Boards

Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
	Iso supports • For insulated standard mounting rail assembly • Large pack: 50 units		8GK9 911-0KK04 8GK9 911-0KK05 8GK9 911-0KK06		1	50 units	039
	Versions • 12 mm • 31.5 mm • 55.5 mm						
8GK9 911-0KK05							
 8GK9 301-2KK01  8GK9 103-0KK10	Partitions (for 210 mm depth) • For the visual and spatial separation of different potentials • Material plastic • For mounting depth 210 mm		8GK9 301-2KK01 8GK9 301-3KK01 8GK9 101-4KK01 8GK9 101-5KK01 8GK9 101-6KK01 8GK9 101-7KK01 8GK9 101-8KK01 8GK9 102-8KK01 8GK9 103-0KK10 8GK9 103-0KK20 8GK9 103-0KK30		1	1 unit	039
	Versions • Vertical - Height 300 mm - Height 450 mm - Height 600 mm - Height 750 mm - Height 900 mm - Height 1050 mm - Height 1200 mm - Height 1350 mm • Horizontal - Width 250 mm - Width 500 mm - Width 750 mm						
Ventilation grilles			8GK9 120-0KK30		1	4 units	038
8GK9 120-0KK30							
For assembly kits							
	3NP1 123... covers, size 000		8GK9 912-0KK00		1	1 unit	039
8GK9 912-0KK00							
 8GK9 650-0KK00  8GK9 711-0KK03	Busbar supports with matching support plate		5SH3 540 8GK9 650-0KK00 8GK9 711-0KK03		1	1 unit	031
	Versions • 1-pole - For Cu busbars 12 × 5 (10) mm, 20 × 5 (10) mm, 30 × 5 (10) mm - Height 150 mm • 5-pole - Busbar center-to-center spacing of 40 mm - For Cu busbars 12 × 5 (10) mm and for mounting 3NP fuse switch disconnectors - Height 300 mm • 3-pole - Busbar center-to-center spacing of 60 mm - For Cu busbars 12 × 5 (10) mm, 20 × 5 (10) mm, 30 × 5 (10) mm - For bus-mounting fuse bases and 3NP4076 switch disconnectors, used together with assembly kits (mounting directly on the stays)						
8GK9 650-0KK00							
8GK9 711-0KK03							

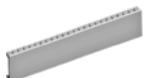
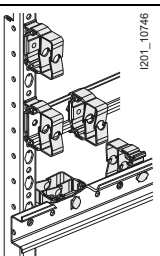
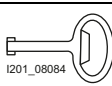
ALPHA 630 Distribution Boards

Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
 8GK9 73	Cu busbars						
	Versions						
	• Cu cross-section of 12 × 5 mm, 250 A						
	- Length 250		8GK9 731-0KK10		1	5 units	039
	- Length 500		8GK9 731-0KK20		1	5 units	039
	- Length 750		8GK9 731-0KK30		1	5 units	039
	- Length 1000		8GK9 731-0KK40		1	5 units	039
	- Length 1250		8GK9 731-0KK50		1	5 units	039
	• Cu cross-section of 20 × 5 mm, 320 A						
	- Length 250		8GK9 733-0KK10		1	5 units	039
	- Length 500		8GK9 733-0KK20		1	5 units	039
	- Length 750		8GK9 733-0KK30		1	5 units	039
	- Length 1000		8GK9 733-0KK40		1	5 units	039
	- Length 1250		8GK9 733-0KK50		1	5 units	039
	• Cu cross-section of 30 × 5 mm, 450 A						
	- Length 250		8GK9 735-0KK10		1	5 units	039
	- Length 500		8GK9 735-0KK20		1	5 units	039
	- Length 750		8GK9 735-0KK30		1	5 units	039
	- Length 1000		8GK9 735-0KK40		1	5 units	039
	- Length 1250		8GK9 735-0KK50		1	5 units	039
	• Cu cross-section of 30 × 10 mm, 630 A						
	- Length 250		8GK9 736-0KK10		1	5 units	039
	- Length 500		8GK9 736-0KK20		1	5 units	039
	- Length 750		8GK9 736-0KK30		1	5 units	039
	- Length 1000		8GK9 736-0KK40		1	5 units	039
	- Length 1250		8GK9 736-0KK50		1	5 units	039
 8GK9 910-0KK30	Supports for front covers		8GK9 910-0KK30		1	5 sets	039
	• Long version • Material plastic • 1 set = 4 supports						
 8GK9 910-0KK10	N/PE bars		8GK9 910-0KK10		1	1 unit	039
	• For mounting on longitudinal stays • With 2 × 29 clamping points • 16 mm ² • Length 250 mm						
 8GK9 910-0KK11	N/PE bars as plug-in terminals						
	Versions						
	• Each with 6 screw connections from 2.5 to 16 mm ² and 21 plug-in connections from 1.5 to 4 mm ² for mounting on longitudinal stays at a 30° inclination		8GK9 910-0KK11		1	1 unit	039
	• With 6 screw connections from 2.5 to 16 mm ² and 21 plug-in connections from 1.5 to 4 mm ² , for PE bar and one neutral-neutral bar each with 2 screw connections from 2.5 to 16 mm ² and 10 plug-in connections from 1.5 to 4 mm ² , for mounting on longitudinal stays at a 30° inclination		8GK9 910-0KK12		1	1 unit	039
 8US19 21-2AA00	Terminals for circular conductors						
	Versions						
	• Busbar thickness 5 mm						
	- Conductor cross-section 1.5 ... 16 mm ²		8US1 921-2AA00		100	100 units	143
	- Conductor cross-section 1.5 ... 35 mm ²		8US1 921-2AB00		100	50 units	143
	- Conductor cross-section 16 ... 70 mm ²		8US1 921-2AD00		1	50 units	143
	- Conductor cross-section 16 ... 120 mm ²		8US1 921-2AC00		1	50 units	143
	• Busbar thickness 10 mm						
	- Conductor cross-section 1.5 ... 16 mm ²		8US1 921-2BA00		1	100 units	143
	- Conductor cross-section 1.5 ... 35 mm ²		8US1 921-2BB00		1	50 units	143
	- Conductor cross-section 16 ... 70 mm ²		8US1 921-2BD00		1	50 units	143
	- Conductor cross-section 16 ... 120 mm ²		8US1 921-2BC00		1	50 units	143
 8GK9 920-0KK24	Replacement door hinges		8GK9 920-0KK24		1	1 set	038
	• For wall/floor-mounted distribution boards • 1 set = 2 hinges						

ALPHA 630 Distribution Boards

Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
 8GK9 910-0KK00	Blanking strips Color RAL 7035 (light gray)		8GK9 910-0KK00 8GK9 910-0KK01		1 1	10 units 1 unit	039 039
	Versions • For 12 MW (1 MW = 18 mm) • Length 1 m w/o pressure-relief joint, to cut to length						
 8GK9 920-0KK31	Connecting kits, IP43/IP55 • For side-by-side mounting of enclosures • Comprising: - Screws - Washers - Nuts - 10 m roll of sealing strip Note A bushing flange is required for electrical connections!		8GK9 920-0KK31		1	1 unit	039
 8GK9 910-0KK80	Cable holders For standard mounting rails		8GK9 910-0KK80		1	200 units	039
 8GD9 290	Spare keys For double-bit locking mechanism		8GD9 290		1	1 unit	042
 8GK9 910-0KK34	Extra-deep brackets For recessed installation of stand. mounting rails		8GK9 910-0KK34		1	1 set	039
 8GK9 910-0KK26	Quick-lock screws • Material plastic • Color RAL 7035		8GK9 910-0KK26		1	20 units	039
 8GK9 910-0KK27	Assembly tools • For supports • Short and long version • With ergonomic handle		8GK9 910-0KK27		1	1 unit	039
 8GK9 918-0KK00	Transport eyebolts M12		8GK9 918-0KK00		1	1 unit	039
 8GK9 910-0KK35	Standard mounting rails, lowered		8GK9 910-0KK35 8GK9 910-0KK40 8GK9 910-0KK41		1 1 1	1 unit 1 set 1 set	039 039 039
	Width • 250 mm • 500 mm • 750 mm						

ALPHA 630 Distribution Boards

Accessories - Ordering large quantities

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Front covers						
 8GK9 601-4KK10	Front covers, closed					
	Front covers in large order quantities (Big Pack)					
	External height in mm	External width in mm				
	75	250	8GK9 601-0KK10	1	10 units	039
	150	250	8GK9 601-1KK10	1	10 units	039
		500	8GK9 601-1KK20	1	10 units	039
		750	8GK9 601-1KK30	1	10 units	039
	300	250	8GK9 601-2KK10	1	10 units	039
		500	8GK9 601-2KK20	1	10 units	039
		750	8GK9 601-2KK30	1	10 units	039
	450	250	8GK9 601-3KK10	1	10 units	039
		500	8GK9 601-3KK20	1	10 units	039
		750	8GK9 601-3KK30	1	10 units	039
	600	250	8GK9 601-4KK10	1	10 units	039
		500	8GK9 601-4KK20	1	10 units	039
		750	8GK9 601-4KK30	1	10 units	039
 8GK9 601-4KK11	Front covers, with cutout					
	Front covers in large order quantities (Big Pack)					
	External height in mm	External width in mm	Tiers/MW			
	150	250	1/12	8GK9 601-1KK11	1	10 units 039
		500	1/24	8GK9 601-1KK21	1	10 units 039
		750	1/36	8GK9 601-1KK31	1	10 units 039
	300	250	2/24	8GK9 601-2KK11	1	10 units 039
		500	2/48	8GK9 601-2KK21	1	10 units 039
		750	2/72	8GK9 601-2KK31	1	10 units 039
	450	250	3/36	8GK9 601-3KK11	1	10 units 039
		500	3/72	8GK9 601-3KK21	1	10 units 039
		750	3/108	8GK9 601-3KK31	1	10 units 039
	600	250	4/48	8GK9 601-4KK11	1	10 units 039
		500	4/96	8GK9 601-4KK21	1	10 units 039
		750	4/144	8GK9 601-4KK31	1	10 units 039
Assembly kits						
 8GK9 910-0KK31	Supports for front covers					
	Material plastic					
	Versions					
	Long version (for use when mounting an 8GK9 910-1KK.0 15 mm standard mounting rail on standard mounting rail holders)		8GK9 910-0KK31	1	100 units	039
	Short version (for use when mounting an 8GK9 910-1KK.0 15 mm standard mounting rail directly on the stays)		8GK9 910-0KK24	1	100 units	039
 8GK9 910-1KK10	Standard mounting rails 15 mm					
	Versions					
	- Width 250 mm - Width 500 mm - Width 750 mm		8GK9 910-1KK10	1	10 units	039
			8GK9 910-1KK20	1	10 units	039
			8GK9 910-1KK30	1	10 units	039
	- Width 1000 mm - Width 1250 mm		8GK9 910-1KK40	1	10 units	039
			8GK9 910-1KK50	1	10 units	039

ALPHA 630 Distribution Boards

Accessories - Ordering large quantities

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG		
 8GK9 910-1KK83	Standard mounting rail holders • For standard mounting rail, 15 mm and supports • Long version • Comprising 1 left and 1 right holder • 1 set = 20 holders, 10 × left, 10 × right <table><tr><th>Versions</th></tr><tr><td> • For 1 standard mounting rail • For 2 standard mounting rails • For 3 standard mounting rails • For 4 standard mounting rails </td></tr></table>	Versions	• For 1 standard mounting rail • For 2 standard mounting rails • For 3 standard mounting rails • For 4 standard mounting rails	8GK9 910-1KK81 8GK9 910-1KK83 8GK9 910-1KK84 8GK9 910-1KK85				
Versions								
• For 1 standard mounting rail • For 2 standard mounting rails • For 3 standard mounting rails • For 4 standard mounting rails								
 8GK9 910-1KK84								
 8GK9 910-1KK85								
 8GK4 853-8KK01	Spare stays, for older floor-mounted distribution boards • To mount the assembly kits in unequipped distribution boards, 2 longitudinal stays are required for each assembly kit width • Height 1800 mm, depth 250/320 mm • 1 set = 2 stays <table><tr><th>Note</th></tr><tr><td>These stays cannot be used for the new 8GK4 853-8KK01 floor-mounted distribution boards.</td></tr></table>	Note	These stays cannot be used for the new 8GK4 853-8KK01 floor-mounted distribution boards.	8GK4 853-8KK01		1	1 set	039
Note								
These stays cannot be used for the new 8GK4 853-8KK01 floor-mounted distribution boards.								

ALPHA 630 Distribution Boards

Notes

ALPHA AS 1250 Distribution Boards

17.5



17.5/2	Introduction
17.5/7	Unequipped distribution boards
17.5/9	Assembly kits for unequipped distribution boards
17.5/17	Accessories
17.5/22	Accessories - Ordering large quantities

More technical product information:

Service&Support portal:

www.siemens.com/lowvoltage/technical-support

→ Product list:
Technical specifications

→ Entry list:
Updates / Downloads / FAQs
Manuals / Operating instructions /
Characteristic curves / Certificates

ALPHA AS 1250 Distribution Boards

Introduction

Overview

		Devices	Page	Surface-mounting distribution boards	Flush-mounting distribution boards	Rated current	Cubicle depth	Safety class	
								1	2
	ALPHA SIMBOX small distribution boards	SIMBOX XL: Flush-mounting and hollow-wall distribution boards	17.1/4	--	✓	63	88 ¹⁾	--	✓
		SIMBOX XL: Surface-mounting distribution boards IP30	17.1/8	✓	--	63	99	--	✓
		SIMBOX WP: Surface-mounting distribution boards IP65	17.1/10	✓	--	63	100/140/160	--	✓
	ALPHA 160 DIN technology distribution boards	Cubicle, partially equipped	17.2/6	✓	✓	160	140	--	✓
		Unequipped distribution board	17.2/6	✓	✓	160	140	--	✓
	ALPHA 400 DIN technology distribution boards	Unequipped distribution board, flat pack	17.3/9	✓	--	400	210	✓	✓
		Unequipped distribution board, pre-assembled	17.3/10	✓	✓	400	210	✓	✓
	ALPHA 630 DIN technology distribution boards	Unequipped distribution board, flat pack	17.4/7	✓	--	630	210	✓	✓
		Unequipped distribution board, pre-assembled	17.4/7	✓	--	630	210 / 250 / 320	✓	✓
		Unequipped distribution board, pre-assembled, with open side panels	17.4/8	✓	--	630	250 / 320	✓	--
	ALPHA AS 1250 DIN technology distribution boards	Unequipped distribution board, pre-assembled	17.5/7	✓	--	1250	400	✓	--

¹⁾ Mounting depth

Degree of protection	VDE	EN	DIN	IEC	Meets requirements of 8.2.1 - 8.2.7 according to EN 60439-1	Meets requirements of 8.2.9 - 8.2.15 according to EN 60439-3
IP30	DIN VDE 0603	--	DIN 43871	--	--	--
IP30	DIN VDE 0603	--	DIN 43871	--	--	--
IP65	DIN VDE 0603-1, DIN VDE 0660-500/504	EN 60439-1/-3	DIN 43871	IEC 60439-1/-3	✓	✓
IP31 / IP43	DIN VDE 0660-500/504	EN 60439-1/-3	--	IEC 60439-1/-3	✓	✓
IP43	DIN VDE 0660-500/504	EN 60439-1/-3	--	IEC 60439-1/-3	✓	✓
IP31 / IP43 / IP55						
IP43	DIN VDE 0660-500/504	EN 60439-1/-3	--	IEC 60439-1/-3	✓	✓
IP43 / IP55						
IP55						
IP55	DIN VDE 0660-500/504	EN 60439-1/-3	--	Type verification according to IEC 61439-2	✓	✓

ALPHA AS 1250 Distribution Boards

Introduction

System

The modular design of our Siemens distribution board system draws on our long years of experience in the distribution board sector.

This system has been tailored to meet individual requirements for distribution board installation.

The ALPHA AS DIN technology distribution board system (1250 A) comprises unequipped distribution boards with removable rear panels, doors, bases with degree of protection IP55, assembly kits for individual assembly, and an extensive range of accessories.

Enclosures

- Material: Electrogalvanized and powder-coated sheet steel
- Sheet thickness, degree of protection IP43/IP55: body 1.25 mm, door 1 mm
- Color: RAL 7035 (light gray), further RAL colors available on request.

Assembly kits

The assembly kits are made of sendzimir-galvanized sheet steel and are equipped with molded-plastic covers for a wide range of equipping options, e.g. with switching devices and modular installation devices.

The largest switching devices that can be installed in the ALPHA AS range are Siemens switching devices with a maximum rated current of 1250 A.

Cabinet dimensions

All dimensions are stated 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): 400
- Assembly kits in panel-size grid dimensions, height x width: 150 x 250.

Benefits

- Busbars are routed to the rear panel through side-by-side cabinets
- Rear panel can be removed for easy installation
- IP55 degree of protection
- Safety class 1 (protective conductor connection)
- Easy planning thanks to modular design
- Flexible expansion with a wide range of assembly kits from the ALPHA 630 distribution board system
- Generous wiring space
- Easy assembly thanks to keyhole-fastened components and modules with quick-acting locks
- System concept according to DIN, EN and VDE standards
- High-quality surface finish: distribution boards made of electrogalvanized and powder-coated sheet steel, system components made of sendzimir-galvanized sheet steel, galvanized and transparently chromated small components and screws
- Doors can be hinged on the right or left
- Door opening angle of 170°
- Replaceable locking systems (accessories)
- Front cover with sealable 90° quick-acting locks
- Environmentally-friendly and recyclable plastics.

Application

The ALPHA AS DIN technology distribution boards (1250 A) are used wherever busbar systems need to be routed through several floor-mounted cabinets mounted side-by-side or where floor-mounted cabinets require a greater enclosure depth (e.g. in administrative, non-residential and industrial buildings). It complements the Siemens range of floor-mounted distribution boards with a mounting depth of 400 mm.

The distribution board and its components are of modular design.

The ALPHA AS distribution board (1250 A) is designed for ALPHA DIN assembly kits.

The modular distribution boards can be supplied in safety class 1 (protective conductor connection). IP55 degree of protection can be achieved with the necessary flanges.

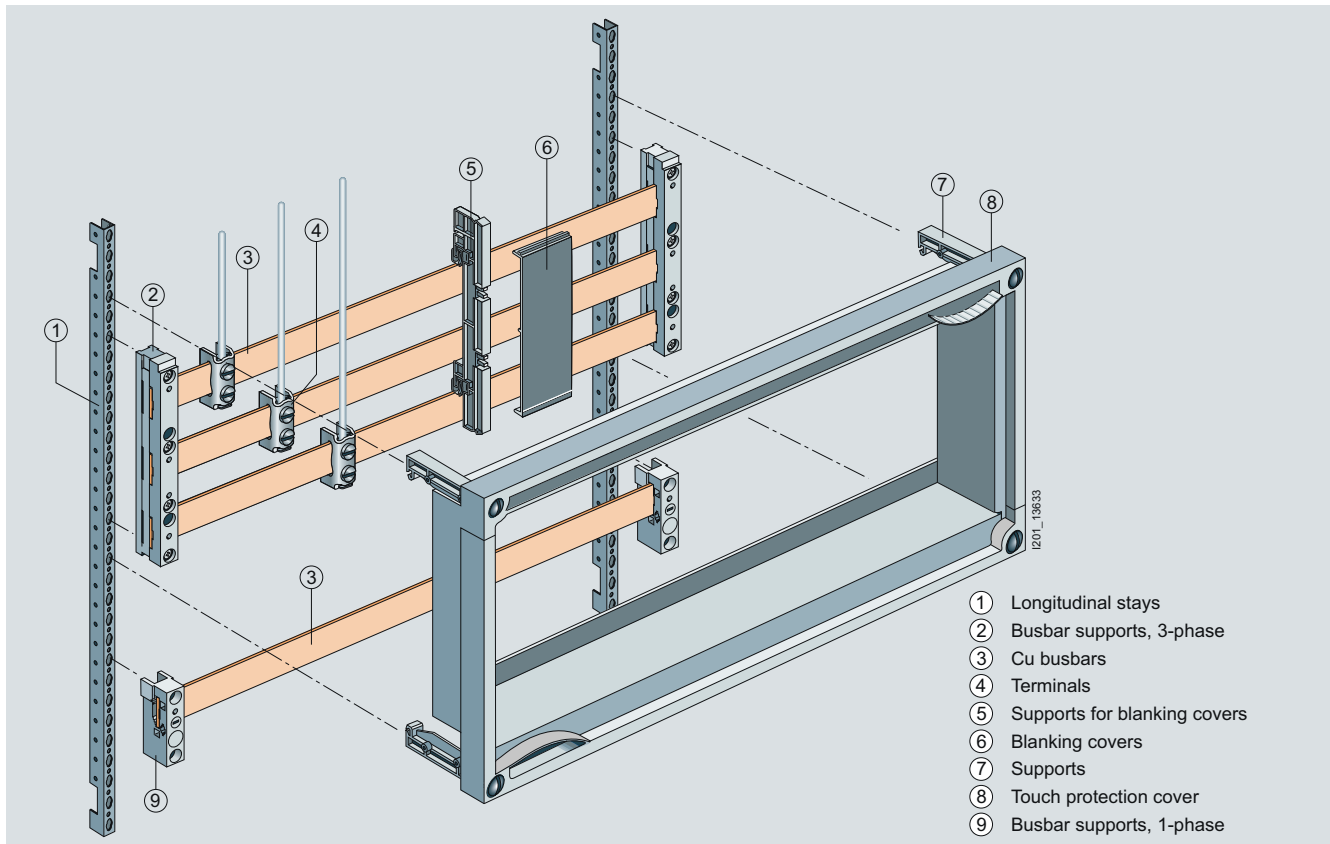
With just a few standard components, it is possible to achieve a wide range of project-related mounting and equipping options. 40 mm, 60 mm and 185 mm busbar systems with dimensions up to 100 mm x 10 mm can be installed.

The modular design of the board enables easy planning, configuration, calculation, ordering and mounting.

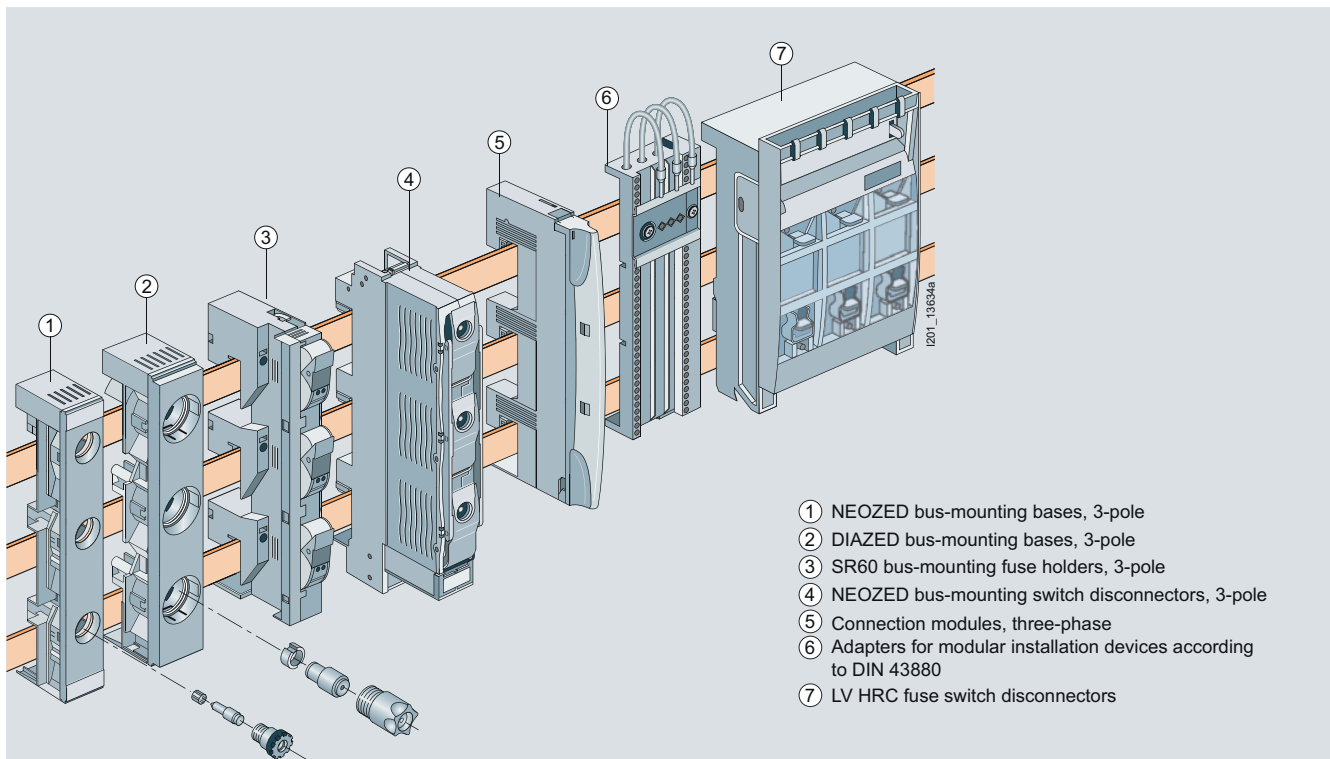
Assembly kits that only require a one-size screwdriver for assembly are available for all mountable switching devices and modular installation devices.



Design



Distribution board components of the 8GK4 assembly kits for the SR60 busbar system, 60 mm



Built-in components of the 8GK4 assembly kits for the SR60 busbar system, 60 mm

ALPHA AS 1250 Distribution Boards

Introduction

Technical specifications

Overvoltage category	III
Rated impulse withstand voltage U_{imp} in kV	8
Clearance and creepage distances	EN 60664-1
Rated insulation voltage U_i in V	690
Rated operational voltage U_o in V AC/DC	690
Rated voltage U_n (40 Hz ... 60 Hz AC) in V	690 for built-in devices
Rated current in A	1250
Rated peak short-circuit current I_{pk} in kA	
• With busbar support, 60 mm	Up to 78.9 ¹⁾
• With busbar support, 185 mm	Up to 110 ¹⁾
Rated short-time current I_{cw} in kA	
• With busbar support, 60 mm	Up to 34 ¹⁾
• With busbar support, 185 mm	Up to 35 ¹⁾
Protective measures	Safety class 1 (protective conductor connection)
Number of conductors in the busbar run	4/5
Degree of protection acc. to EN 60529	IP55 with door (with matching flanges)
Standard mounting rail tier spacing per standard mounting rail tier in mm	150
Modular width (MW)	18 mm, 12 MW
Pollution degree	3
Ambient temperature in °C	35 (24-h mean value)
Relative air humidity in %	50 at 40 °C
Test specifications	EN 60439-1/-3 (VDE 0660 Part 500/504)
Enclosures	Sheet steel
Mounting dimensions	DIN 43880
Surface	Electrogalvanized and powder-coated
Color ²⁾	RAL 7035 (light gray)
Lock	3-point locking with integrated espagnolette lock (can be replaced with other locking systems if required)
Packing material	Shock-proof, environmentally-friendly

¹⁾ Depending on busbar support spacing

²⁾ Further RAL colors are available on request.

Cabinet dimensions

Cabinet (external dimensions)		
Height	Width	Depth
mm	mm	mm
1950 with base (100 mm)	300 550 800 1050 1300	400

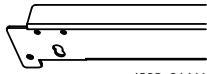
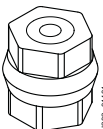
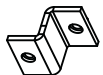
Unequipped distribution boards

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG											
Modular distribution boards																	
 8GK1 423-8KK15	Modular distribution boards • IP55 degree of protection • Color RAL 7035 (light gray) • External height: 1950 mm • External depth: 400 mm • Type of delivery: pre-assembled unequipped distribution board, with removable rear panel, door and open side panels • Safety class 1 (protective conductor connection) • Enclosure (with base) pre-assembled with door and espagnolette lock which can be replaced by other locking systems. Distribution boards with a width of 750 mm/800 mm or more will be supplied with a double door. • Flanges must be ordered separately																
<table><thead><tr><th>External width in mm</th><th>Panel width</th></tr></thead><tbody><tr><td>• 300</td><td></td></tr><tr><td>• 550</td><td></td></tr><tr><td>• 800</td><td></td></tr><tr><td>• 1050</td><td></td></tr><tr><td>• 1300</td><td></td></tr></tbody></table>		External width in mm	Panel width	• 300		• 550		• 800		• 1050		• 1300					
External width in mm	Panel width																
• 300																	
• 550																	
• 800																	
• 1050																	
• 1300																	
Note • For assembly kits see page 17.5/9 ff. • For accessories see page 17.5/17 ff.																	
 8GK9 520-0KK05	Side panels, modular distribution board Depth 400 mm																
				1	1 unit	039											
Accessories																	
 8GK4 853-8KK02	Longitudinal stays (latchable pivot stays) • To mount the assembly kits in unequipped distribution boards, 2 longitudinal stays are required for each assembly kit width • Height 1800 mm • Depth 250/320/400 mm • 1 set = 2 stays																
				1	1 set	039											
 8GK9 910-0KK32	Connecting kits for longitudinal stays • Connecting plate for stays • 1 set = 4 units																
				1	1 unit	039											

ALPHA AS 1250 Distribution Boards

Unequipped distribution boards

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
	Assembly kits for masking frame for front cover Height 1800 mm						
	Width in mm						
	250		8GK9 913-0KK10		1	1 unit	039
	500		8GK9 913-0KK20		1	1 unit	039
	750		8GK9 913-0KK30		1	1 unit	039
	1000		8GK9 913-0KK40		1	1 unit	039
	1250		8GK9 913-0KK50		1	1 unit	039
8GK9 913-0KK30	Note						
	Assembly kit only necessary if the mounting stays are mounted at the rear of the modular distribution board.						
	Flange plates For lower flange opening (sheet steel closed)		8GK9 100-0KK04		1	1 unit	039
8GK9 100-0KK04							
Expansion parts for busbars							
	Busbar supports • Busbar spacing 100/185 mm • Max. busbar current 1250 A • Max. Cu 1 × 80 × 10						
	Versions						
	• With matching support plate for mounting on the rear panel • Without support plate for mounting on the busbar (no fixing to the cabinet enclosure), including fixing screws		8GK9 720-0KK00 8GK9 720-0KK01		1 1	1 unit 1 unit	039 039
	Accessories						
	• PEN bar holder • N/PE busbar supports		8GK9 721-0KK00 8GK9 110-0KK00		1 1	2 units 1 unit	039 039
8GK9 720-0KK00							
 I202_01411	Cross arm for N/PEN pin insulators and/or holders for PEN bars Included in delivery: Cross arm for N/PEN main busbar, 4 × fixing screws M5 × 10						
	Versions						
8GK4854-0KK..	• W=250 mm • W=500 mm		8GK4 854-0KK10 8GK4 854-0KK20		1 1	1 unit 1 unit	039 039
	• W=750 mm • W=1000 mm • W=1250 mm		8GK4 854-0KK30 8GK4 854-0KK40 8GK4 854-0KK50		1 1 1	1 unit 1 unit 1 unit	039 039 039
 I202_01401	Pin insulator for N busbar including holder Pin insulator, 1-pole, with M10 internal thread and holder		8GK9 110-0KK00		1	1 unit	039
8GK9110-0KK00							
 I202 01410	ALPHA AS holder for PEN bar PEN bar holder		8GK9 721-0KK00		1	2 units	039
8GK9721-0KK00							

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS/ P. unit	PG
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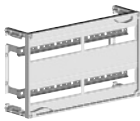
Assembly kits, for modular installation devices

- Tier spacing of 150 mm, without N/PE bar
- Assembly kits for individual and project-related assembly, comprising: device racks, front cover including supports, screws and mounting accessories
- Panel-size grid dimensions H x W (mm): 150 x 250
- The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports.

External dimensions in mm		Tiers/MW
Height	Width	
150	250	1/12
	500	1/24
	750	1/36



8GK4 351-1KK12



8GK4 351-2KK12



8GK4 351-3KK12



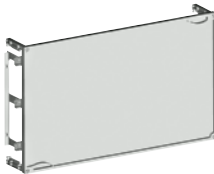
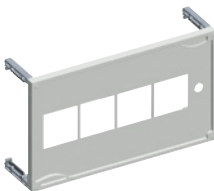
8GK4 351-4KK12

Note

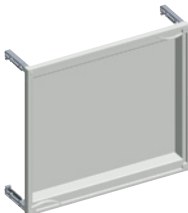
- For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.5/7).
- The quick-assembly kits with a width of 250 mm are equipped with 7.5 mm standard mounting rails.
- The assembly kits with a width of 500/750 mm are equipped with 15 mm standard mounting rails.
- For accessories see page 17.5/20 ff.

ALPHA AS 1250 Distribution Boards

Assembly kits for unequipped distribution boards

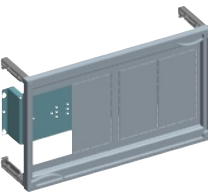
Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG									
 8GK4 401-3KK32 Assembly kits for horizontal terminal blocks - Terminal blocks with graded insulation design - With closed front cover - Assembly kits for individual and project-related assembly, comprising: device racks, front cover including supports, screws and mounting accessories - Panel-size grid dimensions H × W (mm): 150 × 250 - The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. <table><thead><tr><th colspan="2">External dimensions in mm</th></tr><tr><th>Height</th><th>Width</th></tr></thead><tbody><tr><td>150</td><td>250</td></tr><tr><td>300</td><td>250 500 750</td></tr><tr><td>450</td><td>250 500 750</td></tr></tbody></table> Note - For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.5/7). - For accessories see page 17.5/20 ff.	External dimensions in mm		Height	Width	150	250	300	250 500 750	450	250 500 750		8GK4 401-1KK12 8GK4 401-2KK12 8GK4 401-2KK22 8GK4 401-2KK32 8GK4 401-3KK12 8GK4 401-3KK22 8GK4 401-3KK32	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	039 039 039 039 039 039 039
External dimensions in mm															
Height	Width														
150	250														
300	250 500 750														
450	250 500 750														
 8GK4 402-4KK12 Assembly kits for vertical terminal blocks - Terminal blocks with insulation design - With closed front cover - Assembly kits for individual and project-related assembly, comprising: device racks, front cover including supports, screws and mounting accessories - Panel-size grid dimensions H × W (mm): 150 × 250 - The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. <table><thead><tr><th colspan="2">External dimensions in mm</th></tr><tr><th>Height</th><th>Width</th></tr></thead><tbody><tr><td>300</td><td>250 500 750</td></tr><tr><td>450</td><td>250 500 750</td></tr><tr><td>600</td><td>250 500 750</td></tr></tbody></table> Note - For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.5/7). - For accessories see page 17.5/20 ff.	External dimensions in mm		Height	Width	300	250 500 750	450	250 500 750	600	250 500 750		8GK4 402-2KK12 8GK4 402-2KK22 8GK4 402-2KK32 8GK4 402-3KK12 8GK4 402-3KK22 8GK4 402-3KK32 8GK4 402-4KK12 8GK4 402-4KK22 8GK4 402-4KK32	1 1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	039 039 039 039 039 039 039 039 039
External dimensions in mm															
Height	Width														
300	250 500 750														
450	250 500 750														
600	250 500 750														
 8GK4 500-2KK20 Assembly kit front covers, for measuring devices		8GK4 500-2KK20	1	1 unit	039										

Assembly kits for unequipped distribution boards

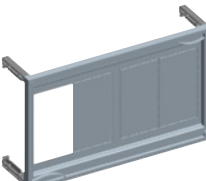
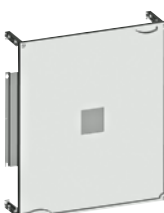
Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
 8GK4 501-4KK12	Assembly kits for unequipped panels • Gray • Assembly kits for individual and project-related assembly, comprising: front cover including supports, screws and mounting accessories • Panel-size grid dimensions H × W (mm): 150 × 250 • The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports.					
	External dimensions in mm					
	Height	Width				
	75	250 500	8GK4 501-0KK12 8GK4 501-0KK22	1 1	1 unit 1 unit	039 039
	150	250 500 750	8GK4 501-1KK12 8GK4 501-1KK22 8GK4 501-1KK32	1 1 1	1 unit 1 unit 1 unit	039 039 039
	300	250 500 750	8GK4 501-2KK12 8GK4 501-2KK22 8GK4 501-2KK32	1 1 1	1 unit 1 unit 1 unit	039 039 039
	450	250 500 750	8GK4 501-3KK12 8GK4 501-3KK22 8GK4 501-3KK32	1 1 1	1 unit 1 unit 1 unit	039 039 039
	600	250 500 750	8GK4 501-4KK12 8GK4 501-4KK22 8GK4 501-4KK32	1 1 1	1 unit 1 unit 1 unit	039 039 039
	750	250 500 750	8GK4 501-5KK12 8GK4 501-5KK22 8GK4 501-5KK32	1 1 1	1 unit 1 unit 1 unit	039 039 039
	Note					
	For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.5/7).					
	 8GK4 501-3KK23	Assembly kits for unequipped panels with deep-drawn cover, 40 mm • Assembly kits for individual and project-related assembly, comprising: front cover including supports, screws and mounting accessories • Panel-size grid dimensions H × W (mm): 150 × 250 • The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports.				
External dimensions in mm						
Height		Width				
300		250 500 750	8GK4 501-2KK13 8GK4 501-2KK23 8GK4 501-2KK33	1 1 1	1 unit 1 unit 1 unit	039 039 039
450		250 500 750	8GK4 501-3KK13 8GK4 501-3KK23 8GK4 501-3KK33	1 1 1	1 unit 1 unit 1 unit	039 039 039
Note						
• For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.5/7).						
• For mounting size 000 fuse switch disconnectors you additionally require the cover 8GK9 912-0KK00 (see page 17.5/13).						
• For accessories see page 17.5/20 ff.						

ALPHA AS 1250 Distribution Boards

Assembly kits for unequipped distribution boards

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG																																
 8GK4 451-4KK12		Assembly kits with mounting plates • With closed front cover • Assembly kits for individual and project-related assembly, comprising: mounting plate, front cover including supports, mounting brackets (depth-adjustable), screws and mounting accessories • Panel-size grid dimensions H x W (mm): 150 x 250 • The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. <table><tr><th colspan="2">External dimensions (mm): assembly kit</th><th colspan="2">Mounting plate dimensions in mm</th></tr><tr><th>Height</th><th>Width</th><th>Height</th><th>Width</th></tr><tr><td rowspan="3">300</td><td>250</td><td rowspan="3">245</td><td>207.5</td></tr><tr><td>500</td><td>457.5</td></tr><tr><td>750</td><td>707.5</td></tr><tr><td rowspan="3">450</td><td>250</td><td rowspan="3">395</td><td>207.5</td></tr><tr><td>500</td><td>457.5</td></tr><tr><td>750</td><td>707.5</td></tr><tr><td rowspan="3">600</td><td>250</td><td rowspan="3">545</td><td>207.5</td></tr><tr><td>500</td><td>457.5</td></tr><tr><td>750</td><td>707.5</td></tr></table> Note • For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.5/7) • If the fitted mounting plate extends over several panel widths, it is not possible to place a longitudinal stay in the middle.					External dimensions (mm): assembly kit		Mounting plate dimensions in mm		Height	Width	Height	Width	300	250	245	207.5	500	457.5	750	707.5	450	250	395	207.5	500	457.5	750	707.5	600	250	545	207.5	500	457.5	750	707.5
External dimensions (mm): assembly kit		Mounting plate dimensions in mm																																				
Height	Width	Height	Width																																			
300	250	245	207.5																																			
	500		457.5																																			
	750		707.5																																			
450	250	395	207.5																																			
	500		457.5																																			
	750		707.5																																			
600	250	545	207.5																																			
	500		457.5																																			
	750		707.5																																			
 8GK9 533-0KK10		Cabinet-high mounting plates • With fixing screws • Sendzimir-galvanized sheet steel • For mounting on longitudinal stays or the rear panel • No covers available <table><tr><th colspan="2">Internal dimensions of cabinet in mm</th><th colspan="2">Mounting plate dimensions in mm</th></tr><tr><th>Height</th><th>Width</th><th>Height</th><th>Width</th></tr><tr><td rowspan="3">1800</td><td>250</td><td rowspan="3">1680</td><td>242</td></tr><tr><td>500</td><td>492</td></tr><tr><td>750</td><td>742</td></tr><tr><td rowspan="2"></td><td>1000</td><td rowspan="2"></td><td>992</td></tr><tr><td>1250</td><td>1242</td></tr></table> Note A cabinet-wide mounting plate is always required for mounting on the rear panel.					Internal dimensions of cabinet in mm		Mounting plate dimensions in mm		Height	Width	Height	Width	1800	250	1680	242	500	492	750	742		1000		992	1250	1242										
Internal dimensions of cabinet in mm		Mounting plate dimensions in mm																																				
Height	Width	Height	Width																																			
1800	250	1680	242																																			
	500		492																																			
	750		742																																			
	1000		992																																			
	1250		1242																																			
 8GK4 550-2KK22		Assembly kits for 3NP1 LV HRC fuse switch disconnectors, for mounting on support plates • Assembly kits for individual and project-related assembly, comprising: support plate, front cover including supports, molded-plastic masking frame, screws and mounting accessories • Panel-size grid dimensions H x W (mm): 150 x 250 • The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. <table><tr><th>Assembly kit for size</th><th>LV HRC fuse switch disconnectors</th><th>Height in mm</th><th>Width in mm</th></tr><tr><td rowspan="2">2 x 00/000</td><td>2 x 3NP1 123... / 3NP1 133...</td><td rowspan="2">300</td><td>250</td></tr><tr><td>4 x 3NP1 123... / 3NP1 133...</td><td>500</td></tr><tr><td>1 x 1</td><td>1 x 3NP1 143...</td><td rowspan="2">450</td><td>250</td></tr><tr><td>2 x 1</td><td>2 x 3NP1 143...</td><td>500</td></tr><tr><td>1 x 2</td><td>1 x 3NP1 153...</td><td rowspan="2">450</td><td>250</td></tr><tr><td>1 x 3</td><td>1 x 3NP1 163...</td><td>500</td></tr></table> Accessories • 3NP1 123... covers, size 000 • Busbar supports - 40 mm, 5-pole - 60 mm, 3-pole Note • For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.5/7). • For mounting size 000 fuse switch disconnectors you additionally require the cover 8GK9 912-0KK00 (see page 17.5/13). • For accessories see page 17.5/20 ff.					Assembly kit for size	LV HRC fuse switch disconnectors	Height in mm	Width in mm	2 x 00/000	2 x 3NP1 123... / 3NP1 133...	300	250	4 x 3NP1 123... / 3NP1 133...	500	1 x 1	1 x 3NP1 143...	450	250	2 x 1	2 x 3NP1 143...	500	1 x 2	1 x 3NP1 153...	450	250	1 x 3	1 x 3NP1 163...	500								
Assembly kit for size	LV HRC fuse switch disconnectors	Height in mm	Width in mm																																			
2 x 00/000	2 x 3NP1 123... / 3NP1 133...	300	250																																			
	4 x 3NP1 123... / 3NP1 133...		500																																			
1 x 1	1 x 3NP1 143...	450	250																																			
2 x 1	2 x 3NP1 143...		500																																			
1 x 2	1 x 3NP1 153...	450	250																																			
1 x 3	1 x 3NP1 163...		500																																			

Assembly kits for unequipped distribution boards

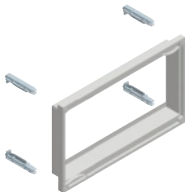
Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG																															
 8GK4 650-2KK12 Assembly kits for 3NP1 LV HRC fuse switch disconnectors, for mounting on busbars - Assembly kits for individual and project-related assembly, comprising: front cover including supports, molded-plastic masking frame, screws and mounting accessories - Panel-size grid dimensions H × W (mm): 150 × 250 - The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. Note The Cu busbar and the busbar supports must be ordered separately (see page 17.5/20). <table><thead><tr><th>Assembly kit for size</th><th>LV HRC fuse switch disconnectors</th><th>Height in mm</th><th>Width in mm</th></tr></thead><tbody><tr><td>2 × 00/000</td><td>2 × 3NP1 123... / 3NP1 133...</td><td>300</td><td>250</td></tr><tr><td>4 × 00/000</td><td>4 × 3NP1 123... / 3NP1 133...</td><td></td><td>500</td></tr><tr><td>2 × 00/000</td><td>2 × 3NP1 123... / 3NP1 133...</td><td>450</td><td>250</td></tr><tr><td>4 × 00/000</td><td>4 × 3NP1 123... / 3NP1 133...</td><td></td><td>500</td></tr><tr><td>1 × 1</td><td>1 × 3NP1 143...</td><td>450</td><td>250</td></tr><tr><td>2 × 1</td><td>2 × 3NP1 143...</td><td></td><td>500</td></tr><tr><td>1 × 2</td><td>1 × 3NP1 153...</td><td></td><td>250</td></tr></tbody></table>Accessories 3NP1 123... covers, size 000 - Busbar supports 40 mm, 5-pole 60 mm, 3-pole Note - For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.5/7). - For mounting size 000 fuse switch disconnectors you additionally require the cover 8GK9 912-0KK00 (see page 17.5/13). - For accessories see page 17.5/20 ff.	Assembly kit for size	LV HRC fuse switch disconnectors	Height in mm	Width in mm	2 × 00/000	2 × 3NP1 123... / 3NP1 133...	300	250	4 × 00/000	4 × 3NP1 123... / 3NP1 133...		500	2 × 00/000	2 × 3NP1 123... / 3NP1 133...	450	250	4 × 00/000	4 × 3NP1 123... / 3NP1 133...		500	1 × 1	1 × 3NP1 143...	450	250	2 × 1	2 × 3NP1 143...		500	1 × 2	1 × 3NP1 153...		250					
Assembly kit for size	LV HRC fuse switch disconnectors	Height in mm	Width in mm																																		
2 × 00/000	2 × 3NP1 123... / 3NP1 133...	300	250																																		
4 × 00/000	4 × 3NP1 123... / 3NP1 133...		500																																		
2 × 00/000	2 × 3NP1 123... / 3NP1 133...	450	250																																		
4 × 00/000	4 × 3NP1 123... / 3NP1 133...		500																																		
1 × 1	1 × 3NP1 143...	450	250																																		
2 × 1	2 × 3NP1 143...		500																																		
1 × 2	1 × 3NP1 153...		250																																		
		8GK4 650-2KK12		1	1 unit	039																															
		8GK4 650-2KK22		1	1 unit	039																															
		8GK4 650-3KK12		1	1 unit	039																															
		8GK4 650-3KK22		1	1 unit	039																															
		8GK4 651-3KK12		1	1 unit	039																															
		8GK4 651-3KK22		1	1 unit	039																															
		8GK4 652-3KK12		1	1 unit	039																															
		8GK9 912-0KK00		1	1 unit	039																															
		8GK9 650-0KK00		1	1 unit	039																															
		8GK9 711-0KK03		1	1 unit	039																															
 8GK4 704-4KK13 Assembly kits for VL circuit breakers - Assembly kits for individual and project-related assembly, comprising: support plate, front cover including supports, screws and mounting accessories - Panel-size grid dimensions H × W (mm): 150 × 250 - The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. <table><thead><tr><th rowspan="2">Versions</th><th colspan="2">External dimensions in mm</th></tr><tr><th>Height</th><th>Width</th></tr></thead><tbody><tr><td rowspan="3">• 3- and 4-pole 1 × VL160/VL160X 1 × VL160X, 1 × VL160, 1 × VL250 1 × VL400 </td><td>300</td><td rowspan="3">250</td></tr><tr><td>450</td></tr><tr><td>600</td></tr><tr><td>• 3-pole 1 × VL630 1 × VL800 </td><td>600</td><td>250</td></tr><tr><td>• 3/4-pole 1 × VL630 1 × VL800 1 × VL1250/1600 </td><td>600</td><td>500</td></tr></tbody></table>	Versions	External dimensions in mm		Height	Width	• 3- and 4-pole 1 × VL160/VL160X 1 × VL160X, 1 × VL160, 1 × VL250 1 × VL400	300	250	450	600	• 3-pole 1 × VL630 1 × VL800	600	250	• 3/4-pole 1 × VL630 1 × VL800 1 × VL1250/1600	600	500																					
Versions		External dimensions in mm																																			
	Height	Width																																			
• 3- and 4-pole 1 × VL160/VL160X 1 × VL160X, 1 × VL160, 1 × VL250 1 × VL400	300	250																																			
	450																																				
	600																																				
• 3-pole 1 × VL630 1 × VL800	600	250																																			
• 3/4-pole 1 × VL630 1 × VL800 1 × VL1250/1600	600	500																																			
		8GK4 701-2KK12		1	1 unit	039																															
		8GK4 701-3KK12		1	1 unit	039																															
		8GK4 702-4KK12		1	1 unit	039																															
		8GK4 703-4KK13		1	1 unit	039																															
		8GK4 704-4KK15		1	1 unit	039																															
		8GK4 704-4KK13		1	1 unit	039																															
		8GK4 704-4KK25		1	1 unit	039																															
		8GK4 705-4KK25		1	1 unit	039																															
 8GK4 721-3KK10 - For installation with mounted RCD module 1 × VL160X + RCD 1 × VL160/VL250 + RCD 1 × VL400 + RCD																																					
		8GK4 720-3KK10		1	1 unit	039																															
		8GK4 721-3KK10		1	1 unit	039																															
		8GK4 720-5KK10		1	1 unit	039																															
 8GK4 722-3KK10 - For installation with front-operated rotary operating mechanism 1 × VL160X/VL160/VL250 1 × VL400 1 × VL630 3-pole 1 × VL630 4-pole Note - For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.5/7). - For accessories see page 17.5/20 ff.																																					
		8GK4 722-3KK10		1	1 unit	039																															
		8GK4 722-4KK10		1	1 unit	039																															
		8GK4 723-4KK10		1	1 unit	039																															
		8GK4 721-4KK20		1	1 unit	039																															

ALPHA AS 1250 Distribution Boards

Assembly kits for unequipped distribution boards

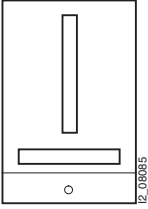
Version		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG										
	Assembly kits for 3KA switch disconnectors on support plate - Panel-size grid dimensions H x W (mm): 150 x 250 - The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. <table><tr><th>Type</th><th>Height in mm</th><th>Width in mm</th></tr><tr><td>• 1 x 3KA 50/51/52/53</td><td rowspan="2">300</td><td>250</td></tr><tr><td>• 1 x 3KA 55/57/58</td><td>500</td></tr><tr><td colspan="3">Note - For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.5/7). - For accessories see page 17.5/20 ff. </td></tr></table>		Type	Height in mm	Width in mm	• 1 x 3KA 50/51/52/53	300	250	• 1 x 3KA 55/57/58	500	Note - For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.5/7). - For accessories see page 17.5/20 ff.			8GK4 707-3KK17 8GK4 707-4KK27	1 1	1 unit 1 unit	039 039
Type	Height in mm	Width in mm															
• 1 x 3KA 50/51/52/53	300	250															
• 1 x 3KA 55/57/58		500															
Note - For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.5/7). - For accessories see page 17.5/20 ff.																	
	Assembly kits for 3NJ4 in-line fuse switch disconnectors - Assembly kits for individual and project-related assembly, comprising: front cover including supports, busbar supports on support plate, screws and mounting accessories - Panel-size grid dimensions H x W (mm): 150 x 250 - The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. - Note: Values in brackets below apply to in-line fuse switch disconnectors with fixing claws <table><tr><th>Versions</th><th colspan="2">External dimensions in mm</th></tr><tr><td rowspan="4">• Busbar center-to-center spacing of 100 mm, with busbar support - 4 (3) x 3NJ4, size 00 - 9 (8) x 3NJ4, size 00 - 14 (13) x 3NJ4, size 00 </td><th>Height</th><th>Width</th></tr><tr><td rowspan="3">600</td><td>250</td></tr><tr><td>500</td></tr><tr><td>750</td></tr></table>		Versions	External dimensions in mm		• Busbar center-to-center spacing of 100 mm, with busbar support - 4 (3) x 3NJ4, size 00 - 9 (8) x 3NJ4, size 00 - 14 (13) x 3NJ4, size 00	Height	Width	600	250	500	750	8GK4 751-4KK13 8GK4 751-4KK23 8GK4 751-4KK33	1 1 1	1 unit 1 unit 1 unit	039 039 039	
Versions	External dimensions in mm																
• Busbar center-to-center spacing of 100 mm, with busbar support - 4 (3) x 3NJ4, size 00 - 9 (8) x 3NJ4, size 00 - 14 (13) x 3NJ4, size 00	Height	Width															
	600	250															
		500															
		750															
	<table><tr><td rowspan="4">• Busbar center-to-center spacing of 185 mm, with busbar support - 2 x 3NJ4, size 1-3 - 4 x 3NJ4, size 1-3 - 7 x 3NJ4, size 1-3 </td><th>Height</th><th>Width</th></tr><tr><td>750</td><td>250</td></tr><tr><td>750</td><td>500</td></tr><tr><td>750</td><td>750</td></tr></table> Note - Notice: Please heed max. rated current of 630 A! - For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.5/7). - The Cu busbar must be ordered separately. - The assembly kits for sizes 1-3 require a mounting depth of 320 mm. - If the assembly kits are fully equipped, an incoming feeder bay is required. - When mounting the in-line fuse switch-disconnectors with 3NJ4 911-3AA00 busbar terminals, the assembly kits cannot be fully equipped. - For accessories see page 17.5/20 ff.		• Busbar center-to-center spacing of 185 mm, with busbar support - 2 x 3NJ4, size 1-3 - 4 x 3NJ4, size 1-3 - 7 x 3NJ4, size 1-3	Height	Width	750	250	750	500	750	750	8GK4 752-5KK15 8GK4 752-5KK25 8GK4 752-5KK35	1 1 1	1 unit 1 unit 1 unit	039 039 039		
• Busbar center-to-center spacing of 185 mm, with busbar support - 2 x 3NJ4, size 1-3 - 4 x 3NJ4, size 1-3 - 7 x 3NJ4, size 1-3	Height	Width															
	750	250															
	750	500															
	750	750															
	Blanking covers <table><tr><th>Type</th><th>Width in mm</th></tr><tr><td>• For switchboard cutout</td><td>50</td></tr><tr><td>• For size 1 to 3 switch disconnectors</td><td>100</td></tr><tr><td>• For 3NJ4 410-3</td><td>50</td></tr></table>		Type	Width in mm	• For switchboard cutout	50	• For size 1 to 3 switch disconnectors	100	• For 3NJ4 410-3	50	3NJ4 912-2AA00 3NJ4 912-2BA00 3NJ4 912-2CA00	1 1 1	1 unit 1 unit 1 unit	143 143 143			
Type	Width in mm																
• For switchboard cutout	50																
• For size 1 to 3 switch disconnectors	100																
• For 3NJ4 410-3	50																

Assembly kits for unequipped distribution boards

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG																
 8GK4 801-3KK12	Assembly kits for bus-mounting fuse bases for mounting on busbar systems • 3-pole • Busbar center-to-center spacing 60 mm • 7 × NEOZED D02 • Assembly kits for individual and project-related assembly, comprising: front cover including supports, busbar supports for bus-mounting fuse bases, screws and mounting accessories • Panel-size grid dimensions H × W (mm): 150 × 250 • The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. <table><tr><th colspan="2">External dimensions in mm</th></tr><tr><th>Height</th><th>Width</th></tr><tr><td>300</td><td>250</td></tr><tr><td>450</td><td>250</td></tr></table> Note • Two busbar supports are included in the assembly kit • For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.5/7). • The Cu busbar must be ordered separately (see page 17.5/20). • For accessories see page 17.5/20 ff.		External dimensions in mm		Height	Width	300	250	450	250	8GK4 801-2KK12 8GK4 801-3KK12	1 1	1 unit 1 unit	039 039								
External dimensions in mm																						
Height	Width																					
300	250																					
450	250																					
 8GK4 801-2KK13	Assembly kits for busbar-adaptable units, SR60 • Busbar center-to-center spacing of 60 mm • Assembly kits for individual and project-related assembly, comprising: deep-drawn front cover with supports • Panel-size grid dimensions H × W (mm): 150 × 250 • The front cover is sealable as standard and the quick-acting locking connections facilitate fast and reliable attachment to the supports. <table><tr><th colspan="2">External dimensions in mm</th></tr><tr><th>Height</th><th>Width</th></tr><tr><td>300</td><td>250</td></tr><tr><td></td><td>500</td></tr><tr><td></td><td>750</td></tr><tr><td>450</td><td>250</td></tr><tr><td></td><td>500</td></tr><tr><td></td><td>750</td></tr></table> Note • Notice: Busbar supports (8GK9 711-0KK03) not included in delivery • Design of the 8GK4 assembly kits for the SR60 busbar system, 60 mm see page 17.5/9. • For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.5/7). • The Cu busbar and the busbar supports must be ordered separately (see page 17.5/20).		External dimensions in mm		Height	Width	300	250		500		750	450	250		500		750	8GK4 801-2KK13 8GK4 801-2KK23 8GK4 801-2KK33 8GK4 801-3KK13 8GK4 801-3KK23 8GK4 801-3KK33	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	039 039 039 039 039 039
External dimensions in mm																						
Height	Width																					
300	250																					
	500																					
	750																					
450	250																					
	500																					
	750																					
 5SH3 536	Supports for blanking cover		5SH3 536	1	4/160 units	031																
 5SH3 537	Blanking covers		5SH3 537	1	2 units	031																

ALPHA AS 1250 Distribution Boards

Assembly kits for unequipped distribution boards

Version		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
 8GE3 713-4	8GE assembly kits for meter mounting • For meter mounting (not standardized, 375 mm) • Assembly kits for individual and project-related assembly, not standardized, only for internal measurements, comprising: meter support plate with all-round partitions, screws and mounting accessories • Dimensions of assembly kits H x W (mm): 450 x 250 • Panel-size grid dimensions H x W (mm): 150 x 250		8GE3 713-4		1	1 unit	042
	Note • For mounting the assembly kits in the unequipped distribution boards, 2 longitudinal stays are required per assembly kit. These must be ordered separately (see page 17.5/7). • For accessories see page 17.5/20 ff.						

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
for unequipped distribution boards						
 8GK9 902-0KK13	Additional bases • For ALPHA distribution boards • Depth 400 mm • Height 100 mm • Color: RAL 7035					
External width in mm						
300		8GK9 902-0KK13	1	1 unit	039	
550		8GK9 902-0KK23	1	1 unit	039	
800		8GK9 902-0KK33	1	1 unit	039	
1050		8GK9 902-0KK43	1	1 unit	039	
1300		8GK9 902-0KK53	1	1 unit	039	
 8GK9 918-0KK00	Transport eyebolts M12		8GK9 918-0KK00	1	1 unit	039
 8GK9 912-0KK00	3NP1 123... covers, size 000		8GK9 912-0KK00	1	1 unit	039
Cabinet mounting lugs, flat						
Versions						
• For mounting and fixing a distribution board directly against the wall without a clearance (1 set = four lugs including screws)		8GK9 910-0KK36	1	5 sets	039	
• For connecting two distribution boards and for mounting and fixing the distribution boards directly against the wall without a clearance, (8GK9 910-0KK36 additionally required for the ends of a row of distribution boards, 1 set = 2 lugs including screws)		8GK9 910-0KK37	1	1 set	039	
 8GK9 100-0KK01	Flanges For fast and correct wiring					
Versions						
• 1-component flanges (for IP43 distribution boards, installed on bottom panel) - For bottom cable entry, with 11 possible knockouts - Max. Ø 50.5 mm, material plastic		8GK9 100-0KK00	1	1 unit	039	
 8GK9 100-0KK03	• 2-component flanges (degree of protection: IP55) - For top/bottom cable entry - With 44 possible knockouts - Comprising 2 elastic components		8GK9 100-0KK01	1	1 unit	039
 8GK9 100-0KK10	• Flange plate made of sheet steel (only safety class 1) - For metric screw connections, degree of protection: IP55 (2 units) • Connecting flanges		8GK9 100-0KK03	1	1 unit	039
		8GK9 100-0KK10	1	1 unit	039	
 8GK9 100-0KK04	Flange plates • IP55 degree of protection • Safety class 1		8GK9 100-0KK04	1	1 unit	039

ALPHA AS 1250 Distribution Boards

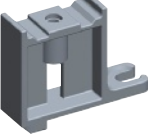
Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
Locking systems							
	Versions		8GK9 561-0KK01		1	1 unit	039
	- Rotary handles - Can be recessed, with pushbutton technique						
8GK9 561-0KK01							
	- Lock insert - For installation of profile semicylinders		8GK9 561-0KK02		1	1 unit	039
	8GK9 561-0KK02						
	- Profile semicylinders, 40 mm, with E012 lock and 2 keys - With insert for the rotary handle - Only to be used together with the lock insert (this must be ordered separately)		8GK9 561-0KK00		1	1 unit	039
	Accessories						
8GK9 561-0KK00	Spare key for E012 lock		8GF9 390-2		1	1 unit	042
	Profile semicylinders with Senat tumbler		8GK9 560-0KK03		1	1 unit	039
Cable clamping rails							
	- For strain relief - C-profile 30 mm x 15 mm						
	Width in mm						
8GK9 911-0KK10	250		8GK9 911-0KK10		1	1 unit	039
	500		8GK9 911-0KK20		1	1 unit	039
	750		8GK9 911-0KK30		1	1 unit	039
	1000		8GK9 911-0KK40		1	1 unit	039
	1250		8GK9 911-0KK50		1	1 unit	039
Circuit diagram pockets							
	Versions						
	- DIN A 3, made of sheet steel, depth 10 mm - DIN A 4, transparent sleeve - DIN A 4, made of plastic, depth 30 mm		8GK9 910-0KK22 8GK9 910-0KK23 8GD9 132		1	1 unit	039
8GK9 910-0KK22					1	20 units	039
					1	1 unit	042
Siemens nameplates Made of aluminum, self-adhesive, color: petrol			8GD9 084		1	1 unit	042
8GD9 084							

SIEMENS

ALPHA AS 1250 Distribution Boards

Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
	Crossbeams						
	Width in mm						
	500 750		8GK4 853-0KK20 8GK4 853-0KK30		1 1	2 units 2 units	039 039
8GK4 853-0KK20							
	Partitions						
	Depth 400 mm						
	Versions						
	• Vertical, height 1800 mm		8GK9 521-8KK00		1	1 unit	039
8GK9 521-8KK00							
	• Horizontal, width 250 mm		8GK9 520-0KK30		1	1 unit	039
8GK9 520-0KK30							
	Screws		8GK9 911-0KK00		1	500 units	039
	• Self-tapping						
	• M5 x 10						
8GK9 911-0KK00	• Large pack: 500 units						
	Extra-deep brackets		8GK9 911-0KK01		1	10 units	039
	• Depth-adjustable						
	• Large pack: 10 units						
8GK9 911-0KK01							
	Drop-down brackets, universal		8GK9 911-0KK02		1	10 units	039
	Large pack: 10 units						
8GK9 911-0KK02							
	Support extensions 		8GK9 911-0KK03		1	100 units	039
	• 7.5 mm						
	• Large pack: 100 units						
8GK9 911-0KK03							
	Iso supports						
	• For insulated standard mounting rail assembly						
	• Large pack: 50 units						
8GK9 911-0KK05	Versions						
	12 mm 31.5 mm 55.5 mm		8GK9 911-0KK04 8GK9 911-0KK05 8GK9 911-0KK06		1 1 1	50 units 50 units 50 units	039 039 039
	Ventilation grilles		8GK9 120-0KK30		1	4 units	038
8GK9 120-0KK30							

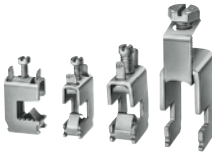
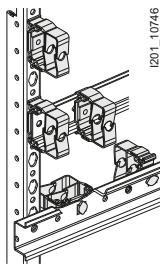
* You can order this quantity or a multiple thereof.

ALPHA AS 1250 Distribution Boards

Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
For assembly kits							
	Busbar supports with matching support plate Versions 1-pole - For Cu busbars 12 × 5 (10) mm, 20 × 5 (10) mm, 30 × 5 (10) mm 5-pole - Busbar center-to-center spacing of 40 mm - For Cu busbars 12 × 5 (10) mm and for mounting 3NP fuse switch disconnectors - Height 300 mm 3-pole - Busbar center-to-center spacing of 60 mm - For Cu busbars 12 × 5 (10) mm, 20 × 5 (10) mm, 30 × 5 (10) mm - For bus-mounting fuse bases and switch disconnectors, used together with assembly kits (mounting directly on the stays)						
		5SH3 540	1	1 unit	031		
8GK9 711-0KK03		8GK9 650-0KK00	1	1 unit	039		
			8GK9 711-0KK03	1	1 unit	039	
	Cu busbars Versions - Cu cross-section of 12 × 5 mm, 250 A - Length 250 - Length 500 - Length 750 - Length 1000 - Length 1250 - Cu cross-section of 20 × 5 mm, 320 A - Length 250 - Length 500 - Length 750 - Length 1000 - Length 1250 - Cu cross-section of 30 × 5 mm, 450 A - Length 250 - Length 500 - Length 750 - Length 1000 - Length 1250 - Cu cross-section of 30 × 10 mm, 630 A - Length 250 - Length 500 - Length 750 - Length 1000 - Length 1250						
8GK9 73		8GK9 731-0KK10	1	5 units	039		
		8GK9 731-0KK20	1	5 units	039		
		8GK9 731-0KK30	1	5 units	039		
		8GK9 731-0KK40	1	5 units	039		
		8GK9 731-0KK50	1	5 units	039		
		8GK9 733-0KK10	1	5 units	039		
		8GK9 733-0KK20	1	5 units	039		
		8GK9 733-0KK30	1	5 units	039		
		8GK9 733-0KK40	1	5 units	039		
		8GK9 733-0KK50	1	5 units	039		
		8GK9 735-0KK10	1	5 units	039		
		8GK9 735-0KK20	1	5 units	039		
		8GK9 735-0KK30	1	5 units	039		
		8GK9 735-0KK40	1	5 units	039		
		8GK9 735-0KK50	1	5 units	039		
		8GK9 736-0KK10	1	5 units	039		
		8GK9 736-0KK20	1	5 units	039		
		8GK9 736-0KK30	1	5 units	039		
		8GK9 736-0KK40	1	5 units	039		
	8GK9 736-0KK50	1	5 units	039			
	Supports for front covers - Long version - Material plastic 1 set = 4 supports	8GK9 910-0KK30	1	5 sets	039		
	N/PE bars - For mounting on longitudinal stays - With 2 x 29 clamping points 16 mm² - Length 250 mm	8GK9 910-0KK10	1	1 unit	039		
8GK9 910-0KK11	N/PE bars as plug-in terminals For mounting on longitudinal stays at a 30° inclination Versions - Each with 6 screw connections from 2.5 to 16 mm² and 21 plug-in connections from 1.5 to 4 mm² - With 6 screw connections from 2.5 to 16 mm² and 21 plug-in connections from 1.5 to 4 mm², for PE bar and one neutral bar each with 2 screw connections from 2.5 to 16 mm² and 10 plug-in connections from 1.5 to 4 mm²	8GK9 910-0KK11	1	1 unit	039		
		8GK9 910-0KK12	1	1 unit	039		

Accessories

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 8US19 21-2AA00	Terminals for circular conductors						
	Versions						
	- Busbar thickness 5 mm - Conductor cross-section 1.5 ... 16 mm²		8US1 921-2AA00		100	100 units	143
	Conductor cross-section 1.5 ... 35 mm²		8US1 921-2AB00		100	50 units	143
	Conductor cross-section 16 ... 70 mm²		8US1 921-2AD00		1	50 units	143
	Conductor cross-section 16 ... 120 mm²		8US1 921-2AC00		1	50 units	143
 8GK9 920-0KK24	Replacement door hinges						
	- For wall/floor-mounted distribution boards 1 set = 2 hinges		8GK9 920-0KK24		1	1 set	038
	Blanking strips						
	Color RAL 7035 (light gray)						
	Versions						
	For 12 MW (1 MW = 18 mm)		8GK9 910-0KK00		1	10 units	039
 8GK9 920-0KK31	Blanking strips						
	Color RAL 7035 (light gray)						
	Versions						
	- For 12 MW (1 MW = 18 mm) - Length 1 m w/o pressure-relief joint, to cut to length		8GK9 910-0KK01		1	1 unit	039
	Connecting kits, IP43/IP55						
	- For side-by-side mounting of enclosures - Comprising: - Screws - Washers - Nuts 10 m roll of sealing strip		8GK9 920-0KK31		1	1 unit	039
 8GK9 910-0KK80	Note						
	A bushing flange is required for electrical connections!						
	Cable holders						
	For standard mounting rails		8GK9 910-0KK80		1	200 units	039
	Spare keys						
	For double-bit locking mechanism		8GD9 290		1	1 unit	042
 8GK9 910-0KK34	Quick-lock screws						
	- Material plastic - Color RAL 7035		8GK9 910-0KK26		1	20 units	039
	Assembly tools						
	- For supports - Short and long version - With ergonomic handle		8GK9 910-0KK27		1	1 unit	039
	Standard mounting rails, lowered						
	Width						
 8GK9 910-0KK35	250 mm		8GK9 910-0KK35		1	1 unit	039
	500 mm		8GK9 910-0KK40		1	1 set	039
	750 mm		8GK9 910-0KK41		1	1 set	039

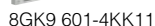
Selection and ordering data

For front covers

- Front covers in large order quantities (Big Pack)
- Tier spacing: 150

75	250
150	250 500 750
300	250 500 750
450	250 500 750
600	250 500 750

8GK9 601-0KK10	1	10 units	039
8GK9 601-1KK10	1	10 units	039
8GK9 601-1KK20	1	10 units	039
8GK9 601-1KK30	1	10 units	039
8GK9 601-2KK10	1	10 units	039
8GK9 601-2KK20	1	10 units	039
8GK9 601-2KK30	1	10 units	039
8GK9 601-3KK10	1	10 units	039
8GK9 601-3KK20	1	10 units	039
8GK9 601-3KK30	1	10 units	039
8GK9 601-4KK10	1	10 units	039
8GK9 601-4KK20	1	10 units	039
8GK9 601-4KK30	1	10 units	039



External dimensions in mm	Tiers/MW
---------------------------	----------

Height	Width	Resolution
150	250	1/12
	500	1/24
	750	1/36
300	250	2/24
	500	2/48
	750	2/72
450	250	3/36
	500	3/72
	750	3/108
600	250	4/48
	500	4/96
	750	4/144

8GK9 601-1KK11	1	10 units	039
8GK9 601-1KK21	1	10 units	039
8GK9 601-1KK31	1	10 units	039
8GK9 601-2KK11	1	10 units	039
8GK9 601-2KK21	1	10 units	039
8GK9 601-2KK31	1	10 units	039
8GK9 601-3KK11	1	10 units	039
8GK9 601-3KK21	1	10 units	039
8GK9 601-3KK31	1	10 units	039
8GK9 601-4KK11	1	10 units	039
8GK9 601-4KK21	1	10 units	039
8GK9 601-4KK31	1	10 units	039

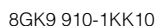
8GK9 910-0KK31

Material plastic

Versions

- Long version (for use when mounting a 15 mm standard mounting rail on standard mounting rail holders)
- Short version (for use when mounting a 15 mm standard mounting rail directly on the stays)

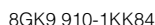
8GK9 910-0KK31	1	100 units	039
8GK9 910-0KK24	1	100 units	039



Width in mm

250
500
750
1000
1250

8GK9 910-1KK10	1	10 units	039
8GK9 910-1KK20	1	10 units	039
8GK9 910-1KK30	1	10 units	039
8GK9 910-1KK40	1	10 units	039
8GK9 910-1KK50	1	10 units	039



- For standard mounting rail, 15 mm and supports
- Long version
- Comprising 1 left and 1 right holder
- 1 set = 20 holders, 10 x left, 10 x right

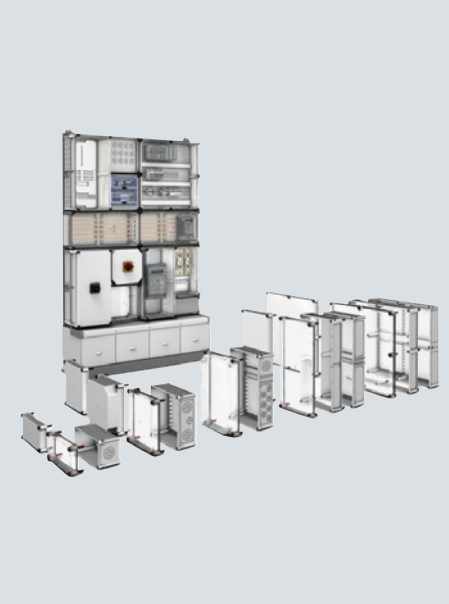
Versions

- For 1 standard mounting rail
- For 2 standard mounting rails
- For 3 standard mounting rails
- For 4 standard mounting rails

8GK9 910-1KK81	1	1 set	039
8GK9 910-1KK83	1	1 set	039
8GK9 910-1KK84	1	1 set	039
8GK9 910-1KK85	1	1 set	039

ALPHA 8HP Molded-Plastic Distribution Systems

18



18/2	Introduction
	Distribution systems
18/8	Empty enclosures
18/11	Modular installation devices
18/14	DIAZED/NEOZED
18/17	LV HRC fuse switch disconnectors
18/19	LV HRC fuse bases
18/21	Meter enclosures
18/23	Switch disconnectors
18/25	Switch disconnectors with fuses
18/26	Changeover switches and parallel switches
18/28	3VL molded case circuit breakers
	Busbar assembly kits
18/30	Busbar supports
18/33	Fuse switch disconnectors
18/35	Terminals
	Accessories
18/37	Accessories for enclosures
18/40	Terminals for mounting plate assembly
18/42	Wall mounting
18/43	Tools and aids
18/44	Support rack
	Dimensional drawings
18/49	Single enclosures, knockouts
18/51	Enclosures with switching devices
18/52	Busbar systems

More technical product information:

Service&Support portal:

www.siemens.com/lowvoltage/technical-support

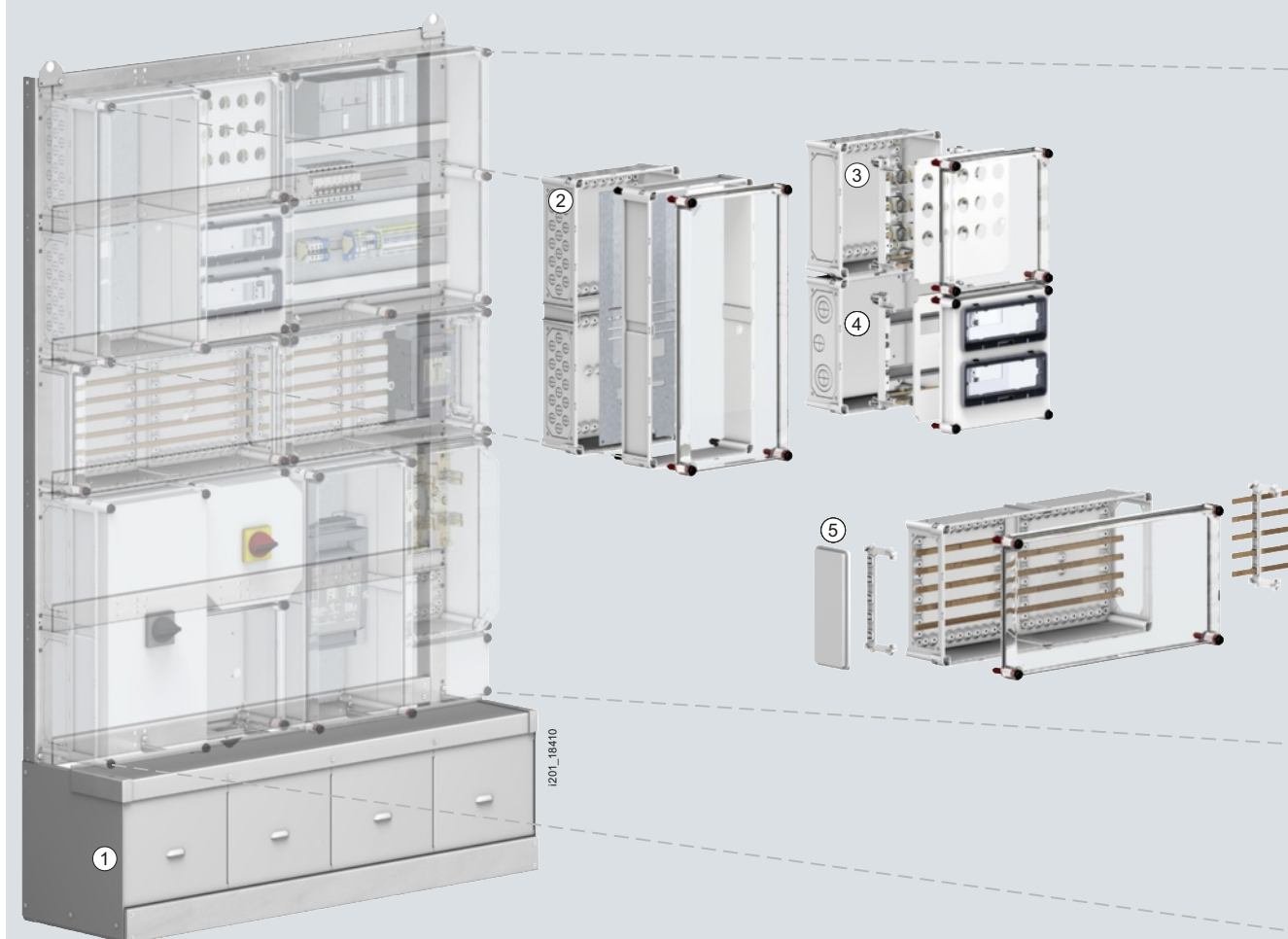
→ Product list:
Technical specifications

→ Entry list:
Updates / Downloads / FAQs
Manuals / Operating instructions /
Characteristic curves / Certificates

ALPHA 8HP Molded-Plastic Distribution Systems

Introduction

Overview



- | | |
|---------------------------------|--|
| ① Rack with cable space cover | ⑦ 3VL molded case circuit breakers |
| ② Meter enclosure | ⑧ 3NP1 LV HRC fuse switch disconnectors, type NH |
| ③ NEOZED and DIAZED | ⑨ Switch disconnectors |
| ④ Modular installation devices | ⑩ Cable inlet flanges |
| ⑤ Busbar system | ⑪ 3NP1 LV HRC fuse switch disconnectors, type NH |
| ⑥ Enclosure with mounting plate | ⑫ LV HRC fuse bases |

Components of the ALPHA 8HP molded-plastic distribution system



ALPHA 8HP Molded-Plastic Distribution Systems

Introduction

The ALPHA 8HP distribution system is ideal for control panels and low-voltage and power distribution boards. The modular design offers virtually endless combination and expansion options. Thanks to the use of high-quality materials, the system is ideal for harsh ambient conditions and offers optimum protection for your components.

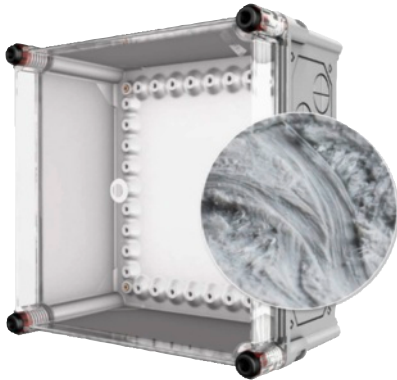
The system also rounds off our comprehensive portfolio of assembly kits and accessories. As a complete supplier of devices and enclosures, Siemens always tests the interaction of all components.

You will find a comprehensive overview of ALPHA 8HP at our Siemens channel under "ALPHA 8HP":

www.siemens.com/lowvoltage/videos

Benefits

All enclosures and the non-transparent covers are made of glass-fiber reinforced polyester – the transparent covers are made of polycarbonate.



The optimum design of these high-quality materials fulfills all the demands made on modern distribution systems. This includes:

- Corrosion resistance
- Mechanical strength
- Easy workability
- Temperature resistance
- Flame retarding and self-extinguishing properties
- UV-resistance and component protection
- Durability

This makes ALPHA 8HP ideal for harsh ambient conditions, offering optimum protection for your installed devices.

We also offer configuration software free of charge:

- Configure your plants quickly, simply and conveniently on-screen with the ALPHA SELECT software
- This software can be downloaded on the Internet at: www.siemens.com/alphaselect

or is available on DVD:

"LV 01" (Catalogs, Manuals, Product Data Sheets, Animations and Tools).

Application

Degree of protection IP65 makes ALPHA 8HP suitable for all applications where particularly high demands are made on ambient conditions. The modular design allows you to expand the system at will. We also offer a comprehensive accessories pack for outdoor applications.

This makes ALPHA 8HP ideal for:

- Industrial environments
- Commercial buildings
- Power plants
- Large public and private buildings
- Public utility companies
- Solar applications

ALPHA 8HP is tested and certified according to recognized national and international standards. This makes the system ideal for the export of industrial goods in the fields of mechanical engineering, agriculture, etc.

GOST



Russia

UL¹⁾



USA

¹⁾ Empty enclosure without assembly kits

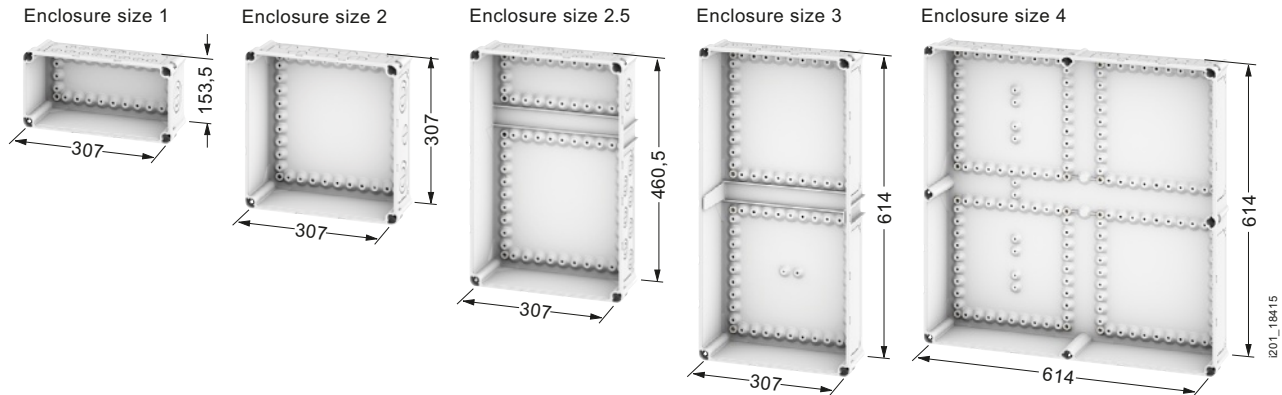
The high quality of ALPHA 8HP is underpinned by the following additional tests:

- 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, Bad Godesberg, 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
- Testing of impact strength according to Belgian and French standards

Design

The distribution system comprises 5 enclosure sizes with a basic size of 307 mm.

The enclosures have removable knockouts for flange openings and for cable entries, which means that these enclosures can be used for both distribution board applications and stand-alone installation.



The covers are available in non-transparent or transparent versions (size 2.5 only available in the transparent version) and have quick-acting locks for tool actuation. These can be replaced with locks for manual actuation.

The enclosures have a mounting depth of 147 mm. For enclosure size 2 there is also a cover for a mounting depth of 212 mm, and for enclosure size 2.5 there is a transparent cover for a mounting depth of 185 mm.

Intermediate frames can be used to increase the mounting depth of size 3 and 4 enclosures. Several intermediate frames can be used together. Each intermediate frame increases the mounting depth by 92.5 mm.

You will find our product videos on ALPHA 8HP on the Siemens channel at:

www.siemens.com/lowvoltage/videos



ALPHA 8HP Molded-Plastic Distribution Systems

Introduction

Technical specifications

	Rated current in A			
	250	400	630	1000
Busbars				
- Bar dimensions - Main conductor L1, L2, L3 in mm - N and PE bar in mm	12 × 5 12 × 5	20 × 8 20 × 8	2 × 20 × 8 20 × 8	2 × 30 × 10 30 × 10
- Infeed - Single-ended in A - Centered in A	250 400	400 800	630 1000	1000 1800
Short-circuit strength of the busbar				
Rated current in A at 85 °C bar temperature				
- Max. spacing of busbar supports 307 mm I_{cw} (1 s) in kA 307 mm I_{pk} in kA 614 mm I_{cw} (1 s) in kA 614 mm I_{pk} in kA	10 40 10 40	20 70 20 70	30 70 30 70	40 80 30 60
Rated current				
- Built-in devices in A - Infeed in A	up to 800 up to 1000			
Rated operational voltage U_e in V	690 AC, 600 DC			
Rated insulation voltage U_i in V	1000 AC, 1200 DC			
Molded plastic group I	600 ≤ CTI			
Acc. to DIN VDE 0110 Parts 1 and 2/01.89	For the installed devices, the specifications listed in the catalogs are applicable			
Rated impulse withstand voltage/pollution degree	8 kV/3			
Minimum air clearances in mm	8			
Minimum creepage distances in mm	12.5			
Degree of protection acc. to EN 60529, DIN VDE 0470	IP65 (8HP1 520 cable entry plate with additional measures)			
Color				
- Enclosure parts - Transparent cover - Cable space cover	RAL 7035, light gray Colorless RAL 7035, light gray			
Ambient temperature in °C	−40 ... +55			

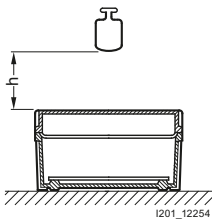
Characteristics

	Test according to	Enclosure base parts, non-transparent cover, end cover plates	Transparent cover	Cable entry plate, cover lock
Material	--	Glass-fiber reinforced polyester	Polycarbonate/Macrolon	PBTP-GV
Electrical characteristics				
• Surface resistance in Ω	DIN 53482	$>10^{12}$	$>10^{15}$	$>10^{13}$
• Tracking resistance	DIN 53480	Level KA 3c	Level KA 1	Level KB 225
• Specific insulation resistance in Ω/cm	DIN 53482	$>10^{14}$	$>10^{16}$	$>10^{16}$
Physical characteristics				
• Density in g/cm^3	DIN 53479/B	1.7	1.2	1.37
• Water absorption in %	DIN 53495/C	0.20	0.15	0.45
Temperature resistance				
• Flammability	DIN VDE 0304/3 UL94	BH2 < 10 mm V-0	BH2 < 30 mm V-2	BH2 < 30 mm --
Temperature resistance				
• Continuous operating temperature in °C	--	120	115	120
Mechanical characteristics				
• Bending strength in N/mm^2	DIN 53452	120	90	140
• Notched bar impact strength in kJ/m^2	DIN 53453	40	> 25	--
• Impact strength in kJ/m^2	DIN 53453	50	Not broken	45
• Impact strength	EN 50102 / EN 62208 / VDE 0660 Part 511	IK08 (without knockouts)	IK10	--
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
UV resistance				
• UL standard (USA)	UL746 C	Resistant	--	Resistant
• IEC standard (International)	IEC 61439-1/-2	Resistant	--	Resistant

Certification

Standards	Description
EN 60664	Standards for rating the creepage distances and clearances of electrical equipment
IEC 60439-1	Specifications for type-tested low-voltage switchgear assemblies (TTA)
EN 60947-3	Standards for low-voltage controls
DIN VDE 0100	Standards for the erection of power installations with rated voltages of up to 1000 V
Special tests passed	- 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, Bad Godesberg, 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.
GOST	For export to Russia  AЯ46
UL	Empty enclosures are UL-certified for export to the USA 

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

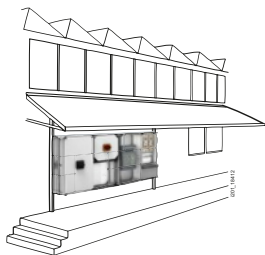
	Degree of protection	Code	Test values		Enclosure base part	Cover
			M kg	h m		
	IP65	7	1.5	0.4	8HP1 101 8HP1 102	8HP1 201 8HP1 202/8HP1 212
	IP65	8	5	0.2	8HP1 103 8HP1 104	8HP1 203 8HP1 204
	IP65	10	15	0.235	8HP1 101 8HP1 102 8HP1 103 8HP1 104	8HP1 221 8HP1 222 8HP1 223 8HP1 224
	IP65	11	15	0.4	8HP1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

Installation conditions

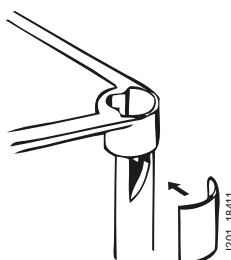
If the operating and ambient conditions differ from the standard conditions according to EN 60439-1, Item 6.1, appropriate measures must be taken to protect and maintain the operating capability of the switchgear assembly for "Special operating and ambient conditions" according to Item 6.2 (e.g. mechanical protection, corner covering).

If exposed to different climatic conditions or installed in rooms with high humidity and strongly fluctuating temperatures, suitable measures must be taken (e.g. ventilation, indoor heating, breathers) to prevent the generation of harmful condensation water.

Installation	Climatic conditions according to DIN 50010	Measures
Indoor	An indoor climate is an environment in rooms that are designed so that objects are largely separated from the direct influence of an open-air climate.	--
External	An external environment is an environment in rooms that are designed so that objects are protected against direct sunlight and precipitation and, if necessary, against wind, but are otherwise exposed to an open-air climate.	- Mechanical protection: - Protected installation - Protective cover - Protective cabinet - Corner covering - Protection against condensed water - Ventilation - Indoor heating - Breather glands
Outdoor	An outdoor climate is an environment that affects objects in the open air	



Protected installation with protective cover



Corner covering

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Empty enclosures

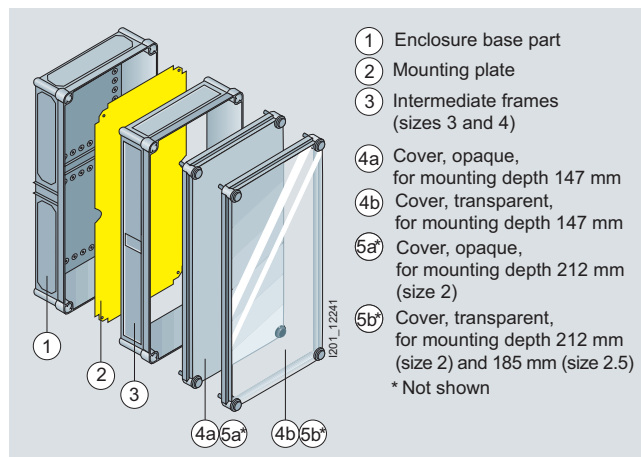
Overview

Features

- The quick-acting locks of the covers need tools for opening and can be shut manually.
- The enclosures have removable knockouts for flange openings and cable entries. For position of knockouts [see page 18/50](#)
- Depending on the type of enclosure, the mounting depth can be extended using high covers or intermediate frames.

Mounting instructions

- The empty enclosures incl. mounting plate are delivered in individual components
- Dimensions of enclosures [see page 18/49](#).



Enclosure size	Mounting depth	Cover versions	Empty enclosure incl. mounting plate Type	Individual components		Cover/+ intermediate frame		Mounting plates	
				Image	Type	Image	Type	Image	Type
1	147 mm	Non-transparent	8HP2 001	①	8HP1 101	4a	8HP1 201	②	8HP6 301
		Transparent	8HP2 021	①	8HP1 101	4b	8HP1 221	②	8HP6 301
2	147 mm	Non-transparent	8HP2 002	①	8HP1 102	4a	8HP1 202	②	8HP6 302
		Transparent	8HP2 022	①	8HP1 102	4b	8HP1 222	②	8HP6 302
	212 mm	Non-transparent	8HP2 012	①	8HP1 102	5a	8HP1 212	②	8HP6 302
		Transparent	8HP2 032	①	8HP1 102	5b	8HP1 232	②	8HP6 302
2.5	147 mm	Transparent	8HP2 027	①	8HP1 107	4b	8HP1 227	②	8HP6 307
	185 mm	Transparent	8HP2 047	①	8HP1 107	5b	8HP1 247	②	8HP6 307
3	147 mm	Non-transparent	8HP2 003	①	8HP1 103	4a	8HP1 203	②	8HP6 303
		Transparent	8HP2 023	①	8HP1 103	4b	8HP1 223	②	8HP6 303
	239.5 mm ¹⁾	Non-transparent	--	①	8HP1 103	4a ③	8HP1 203+ 8HP1 283	②	8HP6 303
		Transparent	--	①	8HP1 103	4a ③	8HP1 223+ 8HP1 283	②	8HP6 303
		Transparent	--	①	8HP1 104	4a ③	8HP1 224+ 8HP1 284	②	8HP6 304
4	147 mm	Non-transparent	8HP2 004	①	8HP1 104	4a	8HP1 204	②	8HP6 304
		Transparent	8HP2 024	①	8HP1 104	4b	8HP1 224	②	8HP6 304
	239.5 mm ¹⁾	Non-transparent	--	①	8HP1 104	4a ③	8HP1 204+ 8HP1 284	②	8HP6 304
		Transparent	--	①	8HP1 104	4a ③	8HP1 224+ 8HP1 284	②	8HP6 304

¹⁾ Additional intermediate frames, each 92.5 mm, can also be used.

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Empty enclosures

Selection and ordering data

Version					DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Complete enclosures									
Empty enclosures, incl. mounting plate									
Versions	Enclosure size	Length mm	Width mm	Depth mm					
 8HP2 022	• Transparent cover	1	307	153.5	167	8HP2 021	1	1 unit	046
		2	307	307.0	167	8HP2 022	1	1 unit	046
		2 deep	307	307.0	232	8HP2 032	1	1 unit	046
		2.5	307	460.5	167	8HP2 027	1	1 unit	046
		2.5 deep	307	460.6	205	8HP2 047	1	1 unit	046
		3	307	614.0	167	8HP2 023	1	1 unit	046
		4	614	614.0	167	8HP2 024	1	1 unit	046
 8HP2 002	• Non-transparent cover	1	307	153.5	167	8HP2 001	1	1 unit	046
		2	307	307.0	167	8HP2 002	1	1 unit	046
		2 deep	307	307.0	232	8HP2 012	1	1 unit	046
		3	307	614.0	167	8HP2 003	1	1 unit	046
		4	614	614.0	167	8HP2 004	1	1 unit	046

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Empty enclosures

Version		DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Individual components						
		Versions	Length mm	Width mm	Depth mm	
		Enclosure size 1				
	Enclosure base part	307	153.5	127	8HP1 101	1 1 unit 046
	Transparent cover			40	8HP1 221	1 1 unit 046
	Non-transparent cover			40	8HP1 201	1 1 unit 046
	Mounting plate (metal)			--	8HP6 301	1 1 unit 046
		Enclosure size 2				
	Enclosure base part	307	307	127	8HP1 102	1 1 unit 046
	Transparent cover			40	8HP1 222	1 1 unit 046
	Transparent cover, deep			105	8HP1 232	1 1 unit 046
	Non-transparent cover			40	8HP1 202	1 1 unit 046
	Non-transparent cover, deep			105	8HP1 212	1 1 unit 046
	Mounting plate (metal)			--	8HP6 302	1 1 unit 046
		Enclosure size 2.5				
	Enclosure base part	307	460.5	127	8HP1 107	1 1 unit 046
	Transparent cover			40	8HP1 227	1 1 unit 046
	Transparent cover, deep			78	8HP1 247	1 1 unit 046
	Mounting plate (metal)			--	8HP6 307	1 1 unit 046
		Enclosure size 3				
	Enclosure base part	307	614	127	8HP1 103	1 1 unit 046
	Intermediate frame			92.5	8HP1 283	1 1 unit 046
	Transparent cover			40	8HP1 223	1 1 unit 046
	Non-transparent cover			40	8HP1 203	1 1 unit 046
	Mounting plate (metal)			--	8HP6 303	1 1 unit 046
		Enclosure size 4				
	Enclosure base part	614	614	127	8HP1 104	1 1 unit 046
	Intermediate frame			92.5	8HP1 284	1 1 unit 046
	Transparent cover			40	8HP1 224	1 1 unit 046
	Non-transparent cover			40	8HP1 204	1 1 unit 046
	Mounting plate (metal)			--	8HP6 304	1 1 unit 046

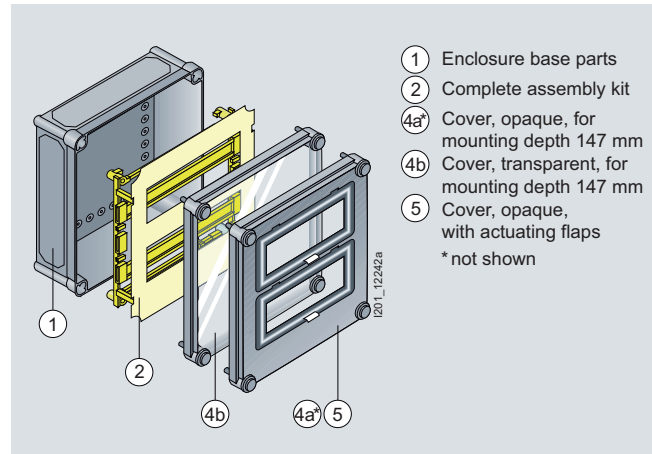
ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Modular installation devices

Overview

- Complete enclosures with assembly kits, including cover plates.
- PE and N outgoing feeders, 1 PE and 1 neutral busbar each, 6 × 6 mm, each with 1 incoming terminal, 16 mm² for size 1 and 35 mm² for sizes 2 - 3.
- Non-transparent cover available with and without actuating flap
- Tier spacing = 125 mm
- Each tier can be expanded to 14 MW With the exception of versions with actuating flap.



Enclosure size	Equipping options Tiers × MW	Cover versions	Complete enclosures	Individual components	
			Type	Image	Type
 1	1 × 12	Non-transparent	8HP2 511	① ② 4a	8HP1 101 8HP5 531 8HP1 201
		Transparent	8HP2 501	① ② 4b	8HP1 101 8HP5 531 8HP1 221
		Non-transparent, with one actuating flap	8HP2 521	① ② ⑤	8HP1 101 8HP5 531 8HP1 331
 2	2 × 12	Non-transparent	8HP2 542	① ② 4a	8HP1 102 8HP5 532 8HP1 202
		Transparent	8HP2 532	① ② 4b	8HP1 102 8HP5 532 8HP1 222
		Non-transparent, with 2 actuating flaps	8HP2 552	① ② ⑤	8HP1 102 8HP5 532 8HP1 352
 2.5	3 × 12	Transparent	8HP2 523	① ② 4b	8HP1 107 8HP5 533 8HP1 227
 3	4 × 12	Non-transparent	8HP2 544	① ② 4a	8HP1 103 8HP5 534 8HP1 203
		Transparent	8HP2 534	① ② 4b	8HP1 103 8HP5 534 8HP1 223
		Non-transparent, with 4 actuating flaps	8HP2 554	① ② ⑤	8HP1 103 8HP5 534 8HP1 354

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Modular installation devices

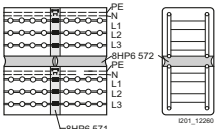
Selection and ordering data

Version			DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Complete enclosures							
Enclosures, for modular installation devices							
Tiers can be expanded to 14 MW, with the exception of versions with actuating flaps							
	Versions	Enclosure size	Tiers × MW				
	• Transparent cover	1	1 × 12 MW	8HP2 501	1	1 unit	046
		2	2 × 12 MW	8HP2 532	1	1 unit	046
		2.5	3 × 12 MW	8HP2 523	1	1 unit	046
		3	4 × 12 MW	8HP2 534	1	1 unit	046
8HP2 532							
	• Non-transparent cover	1	1 × 12 MW	8HP2 511	1	1 unit	046
		2	2 × 12 MW	8HP2 542	1	1 unit	046
		3	4 × 12 MW	8HP2 544	1	1 unit	046
8HP2 542							
	• Non-transparent cover, with actuating flaps	1	1 × 12 MW	8HP2 521	1	1 unit	046
		2	2 × 12 MW	8HP2 552	1	1 unit	046
		3	4 × 12 MW	8HP2 554	1	1 unit	046
8HP2 552							
Individual components							
Complete assembly kits, including cover plates							
	Enclosure size						
	1			8HP5 531	1	1 unit	046
	2			8HP5 532	1	1 unit	046
	2.5			8HP5 533	1	1 unit	046
	3			8HP5 534	1	1 unit	046
8HP5 532							
	Cover plates, single						
	Enclosure size						
	1			8HP6 581	1	1 unit	046
	2			8HP6 582	1	1 unit	046
	2.5			8HP6 583	1	1 unit	046
8HP6 582							
	Guide pins			8HP6 600	1	1 unit	046
	• 1 set = 4 units						
	• Already included in the assembly kits and complete models						
	• For snapping onto the assembly kits in the enclosure						
	8HP6 600						
	Non-transparent covers, with actuating flaps						
	Enclosure size	Number of actuating flaps					
	1	1		8HP1 331	1	1 unit	046
	2	1		8HP1 351	1	1 unit	046
		2		8HP1 352	1	1 unit	046
	3	3		8HP1 353	1	1 unit	046
		4		8HP1 354	1	1 unit	046
8HP1 351							
	Actuating flaps			8HP1 440	1	1 unit	046
	• Degree of protection IP65						
	• 12 modular widths						
	• Lockable, with padlock, 6 mm						
8HP1 440							

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Modular installation devices

Version		DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG	
Accessories							
		Covering strips, 285 mm long - For multiple installation of assembly kits with cover plates for covering the intermediate spaces - These are essential when using cover locks with manual operation					
Versions							
Vertical			8HP6 571	1	1 unit	046	
Horizontal			8HP6 572	1	1 unit	046	
		Incoming and outgoing terminals, for bars 6 mm × 6 mm Suitable for N/PE bars Conductor cross-section in mm ² (solid or stranded)					
4			8WA2 867	1	50 units	041	
25			8WA2 868	1	50 units	041	
35			8WA2 870	1	50 units	041	
2.5 ... 16 (can be retrofitted without dismantling the busbar)			8JH4 112	1	10 units	046	
		Blanking strips 12 MW wide - Color gray - Knockouts enable easy cutting to required length - With increased flame protection up to 850°C		8GB4 671	1	10 units	032

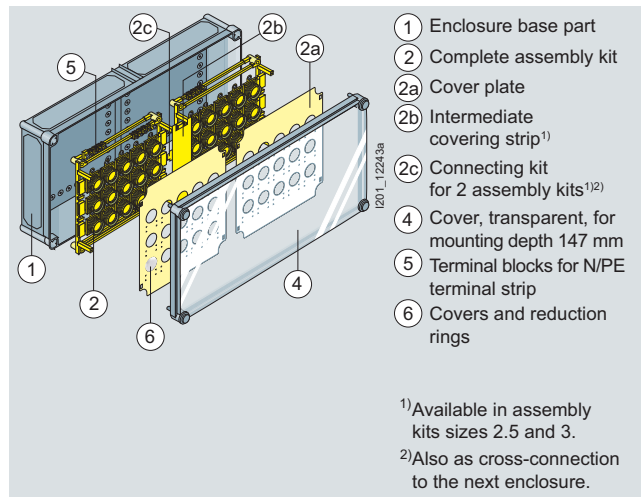
ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

DIAZED/NEOZED

Overview

- Enclosure complete with ready-to-connect *assembly kits with DIAZED and NEOZED bases* including cover plates.
- The bars can be equipped with further terminals, [see Accessories on page 18/35](#)
- For fuse links [see Catalog LV 10.1](#).
- PE and N outgoing feeders: 1 PE and 1 neutral busbar each, 6 x 6 mm, each with one incoming terminal:
 - 16 mm² for size 1
 - 36 mm² for sizes 2 to 3.



Enclosure size	Size and number of DIAZED or NEOZED fuses		Incoming cable, solid or stranded Main conductor PE N mm²	Complete enclosures Type	Individual components	
					Image	Type
DIAZED fuse enclosures						
 1	2 × 3 × 25 A	E27	3 × 16 1 × 16 1 × 16	8HP2 122	① ② ④	8HP1 101 8HP5 142 8HP1 221
	2 × 3 × 63 A	E33	3 × 16 1 × 16 1 × 16	8HP2 131	① ② ④	8HP1 101 8HP5 162 8HP1 221
 2	5 × 3 × 25 A	E27	3 × 35 1 × 35 1 × 35	8HP2 125	① ② ④	8HP1 102 8HP5 145 8HP1 222
	4 × 3 × 63 A	E33	3 × 35 1 × 35 1 × 35	8HP2 133	① ② ④	8HP1 102 8HP5 164 8HP1 222
 3	10 × 3 × 25 A	E27	2 × 3 × 35 1 × 35 1 × 35	8HP2 130	① ② ④	8HP1 103 8HP5 150 8HP1 227
	8 × 3 × 63 A	E33	2 × 3 × 35 1 × 35 1 × 35	8HP2 137	① ② ④	8HP1 103 8HP5 167 8HP1 223
NEOZED fuse enclosures						
 2	8 × 3 × 63 A	D02	3 × 50 1 × 35 1 × 35	8HP2 157	① ② ④	8HP1 102 8HP5 157 8HP1 222

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

DIAZED/NEOZED

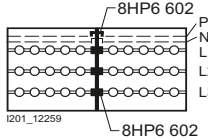
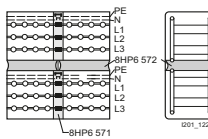
Selection and ordering data

Version				DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG	
Complete enclosures									
	DIAZED fuse enclosures								
	Versions	Size	Enclosure size	Equipping options					
	25 A	E27	1	2 × 3 × 25 A	8HP2 122	1	1 unit	046	
			2	5 × 3 × 25 A	8HP2 125	1	1 unit	046	
			3	10 × 3 × 25 A	8HP2 130	1	1 unit	046	
63 A	E33	1	2 × 3 × 63 A	8HP2 131	1	1 unit	046		
		2	4 × 3 × 63 A	8HP2 133	1	1 unit	046		
		3	8 × 3 × 63 A	8HP2 137	1	1 unit	046		
8HP2 125									
	NEOZED fuse enclosures								
	Versions	Size	Enclosure size	Equipping options					
	63 A	D02	2	8 × 3 × 63 A	8HP2 157	1	1 unit	046	
	8HP2 157								
Individual components									
	Complete assembly kits, including cover plates								
	Versions	Enclosure size	Size	Equipping options					
	• For DIAZED fuse enclosures	1	E27	2 × 3 × 25 A	8HP5 142	1	1 unit	046	
			E33	2 × 3 × 63 A	8HP5 162	1	1 unit	046	
		2	E27	5 × 3 × 25 A	8HP5 145	1	1 unit	046	
E33	4 × 3 × 63 A	8HP5 164	1	1 unit	046				
3	E27	10 × 3 × 25 A	8HP5 150	1	1 unit	046			
	E33	8 × 3 × 63 A	8HP5 167	1	1 unit	046			
8HP5 145									
	• For NEOZED fuse enclosures	2	D02	8 × 3 × 63 A	8HP5 157	1	1 unit	046	
	8HP5 157								
		Guide pins				8HP6 600	1	1 unit	046
• 1 set = 4 units									
• Already included in the assembly kits and complete models									
• For snapping onto the assembly kits in the enclosure									
8HP6 600									

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

DIAZED/NEOZED

	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Accessories						
 8HP6 602	Connecting kits, for 2 DIAZED or NEOZED fuse assembly kits - The bars of the connecting kit can be equipped with incoming terminals type 8JH4 125 or type 8JK3 441. - Note load rating of the bar-mounting base bar 160 A					
	Versions - Assembly kits for 3 busbars 16 x 3 mm (L1, L2, L3) - Assembly kits for N/PE bars (2 units required for 5 conductors)		8HP6 602 8HP6 603	1 1	1 unit 1 unit	046 046
 8HP6 572	Covering strips, 285 mm long - For multiple installation of assembly kits with cover plates for covering the intermediate spaces - These are essential when using cover locks with manual operation					
	Versions - Vertical - Horizontal		8HP6 571 8HP6 572	1 1	1 unit 1 unit	046 046
 8JH4 122	Incoming and outgoing terminals for busbars 16 mm x 3 mm Suitable for DIAZED bus-mounting rails and connecting kits					
	Conductor cross-section in mm ² (solid or stranded)					
	1.5 ... 16		8JH4 122	1	10 units	046
	10 ... 35		8JH4 124	1	10 units	046
	16 ... 50		8JH4 125	1	10 units	046
	10 ... 70		8JK3 441	1	1 unit	046
 8WA2 8..	Incoming and outgoing terminals, for bars 6 mm x 6 mm Suitable for N/PE bars					
	Conductor cross-section in mm ² (solid or stranded)					
	• 4		8WA2 867	1	50 units	041
	• 25		8WA2 868	1	50 units	041
	• 35		8WA2 870	1	50 units	041
 8JH4 112	2.5 ... 16 (can be retrofitted without dismantling the busbar)		8JH4 112	1	10 units	046
 8HP6 542	Reduction rings - for snapping into cover plates - as reduction ring from E33 to E27		8HP6 542	1	1 unit	046
 8HP6 54.	Covers for snapping into cover plates					
	Versions - Blanking plug E27 - Blanking plug E33		8HP6 543 8HP6 544	1 1	1 unit 1 unit	046 046

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

LV HRC fuse switch disconnectors

Overview

Features

- Complete enclosures with integrated fuse switch disconnectors
- With transparent cover
- Location of the switch disconnector is positioned slightly higher than the cable gland (except size 00)

Mounting instructions

- Delivery does not include fuses. Selection of fuses in Catalog [LV 10.1, chapter 7, section "3NP1 fuse switch disconnectors", "Fuses"](#).
- Feeder terminals are required for size 000 disconnectors to increase the size of the conductor cross-section, if fuses >125 A are used.



Enclosure size	Size	Rated current I_n of fuse A	Rated operational current ¹⁾ I_e of fuse A	Equipment	Connection	Complete enclosures
Enclosures with LV HRC fuse switch disconnectors						
	000	160 ²⁾	130 120 115	1 × 3NP1 123-1CA20 2 × 3NP1 123-1CA20 3 × 3NP1 123-1CA20	Box terminal	8HP2 450 8HP2 451 8HP2 452
	00	160	148 108	1 × 3NP1 133-1CA10 2 × 3NP1 133-1CA10	Flat connection	8HP2 453 8HP2 454
	1	250	240	1 × 3NP1 143-1DA10	Flat connection	8HP2 455
	2	400	360	1 × 3NP1 153-1DA10		8HP2 456
	3	630	480	1 × 3NP1 163-1DA10		8HP2 457

¹⁾ The specified values are applicable for use according to the standard at ambient temperatures in accordance with IEC 60947-3, using standard LV HRC fuses, characteristic gG. The conductor cross-sections are to be selected according to the rated current of the fuse and not according to reduced operational current. Additional fuse derating factors must be taken into account for use at increased ambient temperatures, or use of fuses for semi-conductor protection, or for partial range protection use.

²⁾ Only possible in connection with feeder terminal 3NP1 923-1BD00.

Selection and ordering data

	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Complete enclosures						
	Enclosure size	Size	Rated current I_n A	Equipment		
	2	000	160 ¹⁾	1 × 3NP1 123-1CA20 2 × 3NP1 123-1CA20 3 × 3NP1 123-1CA20	8HP2 450 8HP2 451 8HP2 452	1 1 unit 046 1 1 unit 046 1 1 unit 046
	2	00	160	1 × 3NP1 133-1CA10 2 × 3NP1 133-1CA10	8HP2 453 8HP2 454	1 1 unit 046 1 1 unit 046
	3	1	250	1 × 3NP1 143-1DA10	8HP2 455	1 1 unit 046
		2	400	1 × 3NP1 153-1DA10	8HP2 456	1 1 unit 046
		3	630	1 × 3NP1 163-1DA10	8HP2 457	1 1 unit 046

8HP2 457

¹⁾ Only possible in connection with feeder terminal 3NP1923-1BD00

* You can order this quantity or a multiple thereof.

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

LV HRC fuse switch disconnectors

Version		DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Accessories						
	Description	Size				
 3NP1 920-1FA00	Auxiliary switches (CO contact)	000	3NP1 920-1FA00 3NP1 930-1FA00 3NP1 940-1FA00	1	1 unit	143
		00		1	1 unit	143
		1 ... 3		1	1 unit	143
 3NP1 900-1HA00	Locking devices • 1 set = 10 units	000 ... 3	3NP1 900-1HA00	1	1 unit	143
 3NP1 923-1BD00	Feeder terminals, 16 ... 95 mm ² • 1 set = 3 units • for box terminal • to increase the size of the conductor cross-section	000	3NP1 923-1BD00	1	1 unit	143
 3NP1 933-1BA00	Saddle terminals, single, 1.5 ... 70 mm ² • 1 set = 3 units • for flat connection	00 1 2 3	3NP1 933-1BA00 3NP1 943-1BA00 3NP1 953-1BA00 3NP1 963-1BA00	1 1 1 1	1 unit 1 unit 1 unit 1 unit	143 143 143 143
 3NP1 933-1BB10	Prism terminals, single, 35 ... 95 mm ² • 1 set = 3 units • for flat connection	00 1 2 3	3NP1 933-1BB10 3NP1 943-1BB10 3NP1 953-1BB10 3NP1 963-1BB10	1 1 1 1	1 unit 1 unit 1 unit 1 unit	143 143 143 143

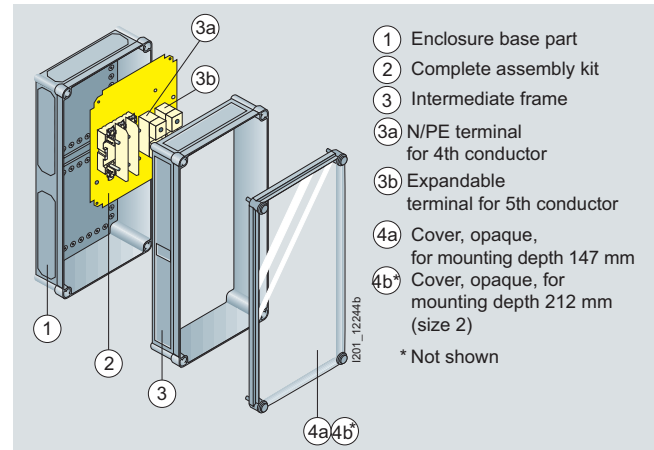
ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

LV HRC fuse bases

Overview

- Complete enclosures with integrated LV HRC fuse bases and transparent cover
- All integrated LV HRC fuse bases (660 V AC, 440 V DC) up to 250 A with integrated N/PE terminal.
- From 400 A without N and PE terminal.
- Connections:
 - NH00 via clamp connections,
 - NH1 and NH2 via M10 terminal screws,
 - NH3 via M12 terminal screws
- For LV HRC fuse links [see Catalog LV 10.1](#).
- For terminal blocks, [see 18/40](#).



Enclosure size	Rated current I_n A	Rated operational current I_e A	Equipment			Complete enclosures Type	Individual components	
			LV HRC fuse base	3a N/PE terminal 4th conductor	3b 5th terminal can be expanded		Image Circuit number	Type
 2	160	125	3 × NH00 up to 50 mm ²	8JH404 up to 35 mm ²	✓	8HP2 301	① ② ④a	8HP1 102 8HP5 301 8HP1 222
	250	210	3 × NH1 up to 120 mm ²	8JK401 up to 70 mm ²	✓	8HP2 311	① ② ④a	8HP1 102 8HP5 311 8HP1 222
	400	300	3 × NH2 up to 185 mm ²	--	--	8HP2 312	① ② ④a	8HP1 102 8HP5 312 8HP1 222
	630	470	3 × NH3 2 × 185 mm ²	--	--	8HP2 314	① ② ④b	8HP1 102 8HP5 314 8HP1 232
 3	400	300	3 × NH2 up to 185 mm ²	8JH404 up to 35 mm ²	✓	8HP2 313	① ② ④a	8HP1 103 8HP5 312 8HP1 223
	630	470	3 × NH3 up to 185 mm ²	8JH404 up to 35 mm ²	✓	8HP2 315	① ② ③ ④a	8HP1 103 8HP5 314 8HP1 283 8HP1 223

ALPHA 8HP Molded-Plastic Distribution Systems

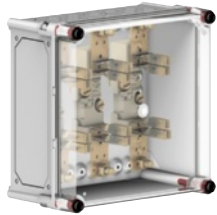
Distribution Systems

LV HRC fuse bases

Selection and ordering data

Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
---------	----	-----------	----------------------------	-----------------	----

Complete enclosures



8HP2 301

Enclosures, with LV HRC fuse bases

Enclosure size	LV HRC fuse bases	Rated current I_n in A				
2	3 × NH00 3 × NH1	160	8HP2 301	1	1 unit	046
		250	8HP2 311	1	1 unit	046
	3 × NH2 3 × NH3	400	8HP2 312	1	1 unit	046
		630	8HP2 314	1	1 unit	046
3	3 × NH2 3 × NH3	400	8HP2 313	1	1 unit	046
		630	8HP2 315	1	1 unit	046

Individual components



8HP5 301

LV HRC fuse bases

Enclosure size	LV HRC fuse bases	Rated current I_n in A				
2	3 × NH00 3 × NH1	160	8HP5 301	1	1 unit	046
		250	8HP5 311	1	1 unit	046
	3 × NH2 3 × NH3	400	8HP5 312	1	1 unit	046
		630	8HP5 314	1	1 unit	046
3	3 × NH2 3 × NH3	400	8HP5 312	1	1 unit	046
		630	8HP5 314	1	1 unit	046

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Meter enclosures

Overview

- Enclosure incl. support rails for meters or ISO meter support plate with meter fixing screws
- Spacer bolts (15 mm) for raising the meter support plates are included in the scope of delivery if cables are routed underneath.

Enclosure size	Mounting depth	Complete enclosures (delivery in individual components)	Individual components	
	mm	Type	Designation	Type
	145	8HP2 627	Enclosure base part Transparent cover for mounting depth 145 mm ISO meter support plate	8HP1 107 8HP1 227 8HP6 111
	183	8HP2 647	Enclosure base part Transparent cover for mounting depth 183 mm ISO meter support plate	8HP1 107 8HP1 247 8HP6 111
2.5 	145	8HP2 623	Enclosure base part Transparent cover for mounting depth 145 mm ISO meter support plate	8HP1 103 8HP1 223 8HP6 112
	237	8HP2 653	Enclosure base part Transparent cover for mounting depth 145 mm Intermediate frame ISO meter support plate	8HP1 103 8HP1 223 8HP1 283 8HP6 112
3				

Selection and ordering data

Version		DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Complete enclosures						
	Meter enclosures					
	Enclosure size	Mounting depth in mm				
	2.5	145	8HP2 627 8HP2 647	1	1 unit	046
		183		1	1 unit	046
	3	145	8HP2 623 8HP2 653	1	1 unit	046
		237		1	1 unit	046
8HP2 623						
Individual components						
	ISO meter support plates					
	With meter fixing screws to DIN 46300 and spacer bolts (15 mm)					
	Versions					
	• For enclosure size 2.5		8HP6 111 8HP6 112	1	1 unit	046
	• For enclosure sizes 3 and 4			1	1 unit	046
8HP6 112						

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Meter enclosures

Version		DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Accessories						
 8JH1 41	Support rails • For meters • Time switches and timing relays • Mounting length 1 enclosure width = 236 mm		8JH1 41	1	1 unit	046
	Note Two 8JK1 13 mounting rails are required for installing the support rail in the enclosure					
 8JK1 13	Mounting rails • With threaded holes, M4 • Mounting length 1 enclosure width = 236 mm • For mounting on enclosure base		8JK1 13	1	1 unit	046
 8HP1 815	Sealing caps • 1 set = 2 caps • For sealing the quick-release cover locks		8HP1 815	1	1 unit	046

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

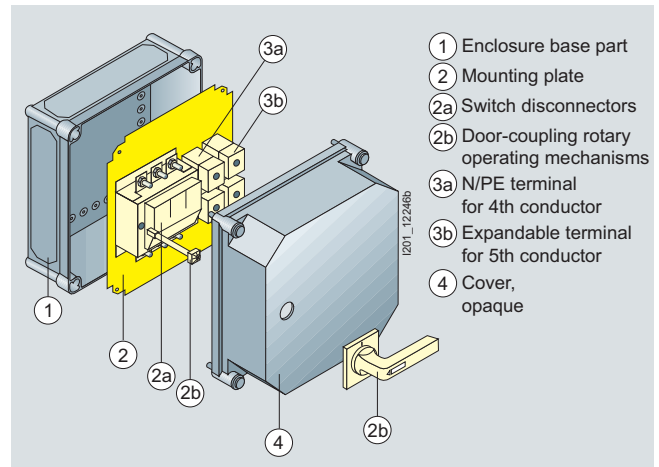
Switch disconnectors

Overview

- Enclosures with integrated switch disconnectors as main and EMERGENCY-STOP switch.
- For switch disconnectors see [Catalog LV 10.1, Chapter 7 "Switch disconnectors"](#).

Mounting instructions

- The conductor cross-section refers to the terminal of the switching device. A separate fanning box may be necessary for cable entry.
- Dimensional drawings see [page 18/51](#)
- An additional terminal is a mounting option for the 5th conductor (not included in the scope of delivery) when using expandable enclosures (3b).



Enclosure size	Rated current I_n A	Rated operational current I_e A	Rated breaking capacity AC-23	②b Version		Height × width × depth ²⁾ mm	Equipment		
				Main switch	EMERGENCY-STOP switch		②a Switch disconnector	③a N/PE terminal 4th conductor	③b 5th terminal can be expanded
2	63	63	500 A/660 V (AC-23)	8HP2 705	8HP2 742	307 × 307 × 167	3KA50 up to 35 mm ²	8WA1 205 up to 35 mm ²	✓
	125	125	125 A/690 V (AC-23 A)	8HP2 707	8HP2 747	307 × 307 × 167	3KA52 up to 70 mm ²	8WA1 206 up to 70 mm ²	✓
	160	160	250 A/660 V (AC-23)	8HP2 714	8HP2 744	307 × 307 × 232	3KA53 up to 120 mm ²	8WA1 206 up to 70 mm ²	✓
	250	250	800 A/660 V (AC-22)	8HP2 732	8HP2 752	307 × 307 × 232	3KE42 up to 150 mm ²	8JK4 01 up to 70 mm ²	✓
	400	400	1200 A/660 V (AC-22)	8HP2 734	8HP2 754	307 × 307 × 232	3KE43 up to 2 × 150 mm ² or 1 × 24 mm ²	8JK4 04 up to 150 mm ²	--
			2400 A/660 V (AC-23)	8HP2 716	8HP2 746	307 × 307 × 232	3KA57 up to 150 mm ²	--	--
3	160	160	250 A/660 V (AC-23)	8HP2 711	8HP2 748	307 × 614 × 167	3KA53 up to 120 mm ²	8WA1 206 up to 70 mm ²	✓
	250	250	250 A/690 V (AC-23 A)	8HP2 712	8HP2 761	307 × 614 × 260	3KA55 up to 150 mm ²	--	--
			800 A/660 V (AC-22)	8HP2 733	8HP2 753	307 × 614 × 260	3KE42 up to 150 mm ²	8JK4 01 up to 70 mm ²	✓
	400	400	1200 A/660 V (AC-23)	8HP2 735	8HP2 755	307 × 614 × 260	3KE43 up to 2 × 150 mm ² or 1 × 240 mm ²	8JK404 up to 150 mm ²	--
			2400 A/660 V (AC-23)	8HP2 717	8HP2 762	307 × 614 × 260	3KA57 up to 150 mm ²	--	--
	630	630	400 A/690 V (AC-23 B)	8HP2 718	8HP2 763	307 × 614 × 260	3KA58 up to 240 mm ²	--	--
			2500 A/660 V (AC-23)	8HP2 736	8HP2 756	307 × 614 × 260	3KE44 up to 240 mm ²	8JK4 06 up to 240 mm ²	--
	1000	800 ¹⁾	2500 A/660 V (AC-23)	8HP2 738	8HP2 758	307 × 614 × 260	3KE45 up to 2 × 240 mm ²	8JK4 06 up to 240 mm ²	--

¹⁾ Full load of 800 A only possible with busbars Cu 2 × (30 mm × 10 mm) and incoming cable Cu 2 × (40 mm × 5 mm) or Cu cable 2 × (3 × 240) mm².

²⁾ Dimensions without operating handle ②b

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Switch disconnectors

Selection and ordering data

Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Complete enclosures					
 8HP2 705	Main switches				
	Enclosure size	Rated operational current I_e A	Switch disconnector		
	2	63	3KA50	8HP2 705	1 1 unit 046
		125	3KA52	8HP2 707	1 1 unit 046
		160	3KA53	8HP2 714	1 1 unit 046
		250	3KE42	8HP2 732	1 1 unit 046
		400	3KA57 3KE43	8HP2 716 8HP2 734	1 1 unit 046 1 1 unit 046
	3	160	3KA53	8HP2 711	1 1 unit 046
		250	3KA55 3KE42	8HP2 712 8HP2 733	1 1 unit 046 1 1 unit 046
		400	3KA57 3KE43	8HP2 717 8HP2 735	1 1 unit 046 1 1 unit 046
		630	3KA58 3KE44	8HP2 718 8HP2 736	1 1 unit 046 1 1 unit 046
		800	3KE45	8HP2 738	1 1 unit 046
	EMERGENCY-STOP switches				
	Enclosure size	Rated operational current I_e A	Switch disconnector		
	2	63	3KA50	8HP2 742	1 1 unit 046
		125	3KA52	8HP2 747	1 1 unit 046
		160	3KA53	8HP2 744	1 1 unit 046
		250	3KE42	8HP2 752	1 1 unit 046
		400	3KA57 3KE43	8HP2 746 8HP2 754	1 1 unit 046 1 1 unit 046
 8HP2 742	3	160	3KA53	8HP2 748	1 1 unit 046
		250	3KA55 3KE42	8HP2 761 8HP2 753	1 1 unit 046 1 1 unit 046
		400	3KA57 3KE43	8HP2 762 8HP2 755	1 1 unit 046 1 1 unit 046
		630	3KA58 3KE44	8HP2 763 8HP2 756	1 1 unit 046 1 1 unit 046
		800	3KE45	8HP2 758	1 1 unit 046

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

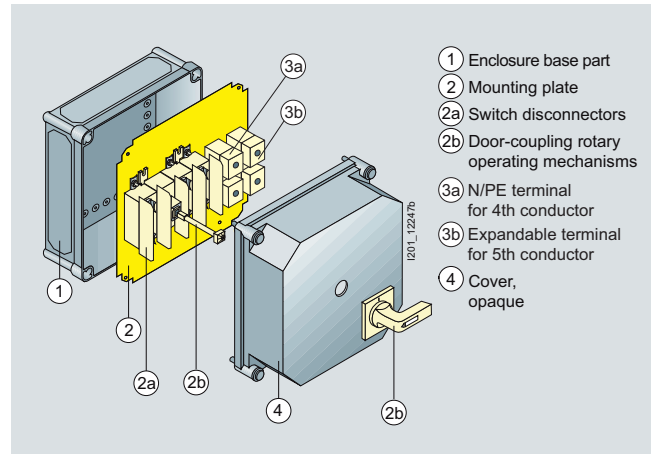
Switch disconnectors with fuses

Overview

- With motor switching capacity and disconnector characteristics, can be used as main and EMERGENCY-STOP switch to EN 60204-1
- LV HRC fuse links must be ordered separately, see [Catalog LV 10.1](#).

Mounting instructions

- The conductor cross-section refers to the terminal of the switching device. A separate fanning box may be necessary for cable entry
- Dimensional drawings [see page 18/51](#)
- An additional terminal for the 5th conductor can be retrofitted (not included in the scope of delivery) when using expandable enclosures.



Enclosure size	Rated current I_n A	Rated operational current I_e A	Rated breaking capacity 500 A/660 V (AC-23)	Version		Equipment			
				Main switch	EMERGENCY-STOP switch	2a Switch disconnector	Fuse type	3a N/PE terminal 4th conductor	3b 5th terminal can be expanded
	63	63	500 A/660 V (AC-23)	8HP2 710	8HP2 741	3KL50 up to 35 mm ²	NH00	8WA1 205 up to 35 mm ²	✓
	125	125	800 A/660 V (AC-23)	8HP2 713	8HP2 743	3KL52 up to 70 mm ² with M6 cable lug	NH00	8WA1 206 up to 35 mm ²	✓
	250	250	2000 A/660 V (AC-23)	8HP2 715	8HP2 745	3KL55 up to 150 mm ² with M10 cable lug	NH1	8WA1 206 up to 120 mm ² with M10 cable lug	--

Selection and ordering data

Version	DT	Order No.	PU (UNIT, SET, M)	PS* P. unit	PG
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Complete enclosures



8HP2 715

Main switches

Enclosure size	Switch disconnectors	Rated current I_n in A				
2	3KL50	63	8HP2 710 8HP2 713 8HP2 715	1	1 unit	046
	3KL52	125		1	1 unit	046
	3KL55	250		1	1 unit	046



8HP2 741

EMERGENCY-STOP switches

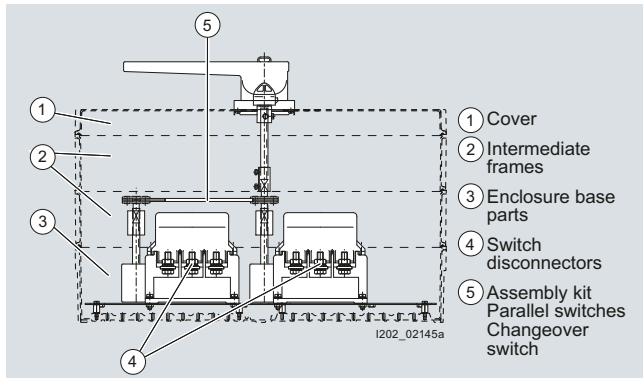
Enclosure size	Switch disconnectors	Rated current I_n in A				
2	3KL50	63	8HP2 741 8HP2 743 8HP2 745	1	1 unit	046
	3KL52	125		1	1 unit	046
	3KL55	250		1	1 unit	046

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Changeover switches and parallel switches

Overview



Features

- Changeover operating mechanism
 - Suitable for changing over to different load lines, e.g. emergency operation, repair switch
 - Available make-before-break and break-before-make
- Shifting linkage for parallel switching
 - For the simultaneous actuation of two load lines.

Mounting instructions

- Order and delivery are in individual components
- The switches must be connected using copper busbars or NYA cables.
- For dimensional drawings, see page 18/51.

Assembly kit for changeover switch

Enclosure size	Rated current I_n	Rated operational current I_e	Switch disconnector/ main conductor connection	Individual components			Type
	A	A		① Cover ② Intermediate frame ③ Base Type	④ Switch disconnector Type	⑤ Assembly kit	
	250	250	3KE42 1 × 150 mm ²	① 8HP1 204 ② 2 × 8HP1 284 ③ 8HP1 104	2 × 3KE42 30-0AA	Changeover operating mechanism • Break-before-make • Make-before-break	8HP5 458 8HP5 458-Z ¹⁾
	400	400	3KE43 2 × 150 mm ²	① 8HP1 204 ② 2 × 8HP1 284 ③ 8HP1 104	2 × 3KE43 30-0AA	Changeover operating mechanism • Break-before-make • Make-before-break	8HP5 458 8HP5 458-Z ¹⁾
	630	630	3KE44 2 × 240 mm ²	① 8HP1 204 ② 2 × 8HP1 284 ③ 8HP1 104	2 × 3KE44 30-0AA	Changeover operating mechanism • Break-before-make • Make-before-break	8HP5 458 8HP5 458-Z ¹⁾

¹⁾ Add "make-before-break" in plain text.

Assembly kit for parallel switch

For thermal reasons the rated operational current is reduced to approximately 80% of the rated current.

Enclosure size	Rated current I_n	Rated operational current I_e	Switch disconnector/ main conductor connection	Individual components			Type
	A	A		① Cover ② Intermediate frame ③ Base Type	④ Switch disconnector Type	⑤ Assembly kit	
	500	500	3KE42 1 × 150 mm ²	① 8HP1 204 ② 2 × 8HP1 284 ③ 8HP1 104	2 × 3KE42 30-0AA	Shifting linkage for parallel switching	8HP5 457
	800	630	3KE43 2 × 150 mm ²	① 8HP1 204 ② 2 × 8HP1 284 ③ 8HP1 104	2 × 3KE43 30-0AA	Shifting linkage for parallel switching	8HP5 457
	1260	1000	3KE44 2 × 240 mm ²	① 8HP1 204 ② 2 × 8HP1 284 ③ 8HP1 104	2 × 3KE44 30-0AA	Shifting linkage for parallel switching	8HP5 457

4

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Changeover switches and parallel switches

Selection and ordering data

Ordering information

The assembly kit must be ordered in individual components:

- Enclosure base part
- Cover
- 2 × intermediate frames
- 2 × 3KE switch disconnectors
- Changeover switch or parallel switch assembly kit

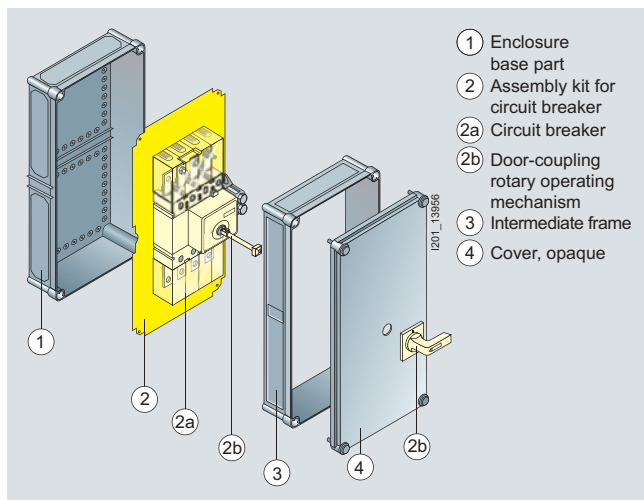
Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Assembly kits for changeover and parallel switches					
Versions					
① Cover		8HP1 204	1	1 unit	046
② Intermediate frame		8HP1 284	1	1 unit	046
③ Enclosure base part		8HP1 104	1	1 unit	046
④ Switch disconnector					
Changeover switches	Parallel switches ¹⁾				
- 250 A	- 500 A	3KE4 230-0AA	1	1 unit	103
- 400 A	- 800 A	3KE4 330-0AA	1	1 unit	103
- 630 A	- 1260 A	3KE4 430-0AA	1	1 unit	103
⑤ Assembly kit					
- Changeover operating mechanism break-before-make		8HP5 458	1	1 unit	046
- Changeover operating mechanism make-before-break ²⁾		8HP5 458-Z	1	1 unit	046
- Shifting linkage for parallel switching		8HP5 457	1	1 unit	046
Footnote					
¹⁾ For thermal reasons the rated operational current is reduced to approximately 80% of the rated current.					
²⁾ Add " make-before-break " in plain text.					

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

3VL molded case circuit breakers

Overview



ALPHA 8HP, diagram of enclosure with 3VL molded case circuit breakers

Features

- Enclosure complete with built-in 3VL molded case circuit breaker, door-coupling rotary operating mechanism in black and terminals
- Terminal covers and connecting bars for safe use with maximum possible rated current
- All circuit breakers in size 3 enclosure with intermediate frame
- Cover, non-transparent
- EMERGENCY-STOP operating mechanisms on request.

Mounting instructions

- **Notice:** The distribution board must be installed in accordance with the data in the table
- Minimum volume (see table) of the flange-mounted distribution board on the enclosure with 3VL to accommodate the switching pressure on tripping (the supplementary enclosure does not have to be an empty enclosure)
- Values valid for rated voltage of 415 V AC.

Design of distribution boards

Rated current I_n	Short-circuit strength I_k 10 kA	20 kA	27 kA	40 kA
63 A	Mounting example: • 8HP2 012   Enclosure volume at least 65 dm ³	Mounting example: • 8HP2 003 • 8HP1 283   Enclosure volume at least 90 dm ³	Mounting example: • 8HP2 003 • 8HP1 283   Enclosure volume at least 90 dm ³	Mounting example: • 8HP2 003 • 8HP1 283   Enclosure volume at least 90 dm ³
100 A	Mounting example: • 8HP2 012   Enclosure volume at least 65 dm ³	Mounting example: • 8HP2 003 • 8HP1 283   Enclosure volume at least 90 dm ³	Mounting example: • 8HP2 003 • 8HP1 283   Enclosure volume at least 90 dm ³	Mounting example: • 8HP2 004 • 8HP1 284   Enclosure volume at least 135 dm ³
160 A	Mounting example: • 8HP2 012   Enclosure volume at least 65 dm ³	Mounting example: • 8HP2 003 • 8HP1 283   Enclosure volume at least 90 dm ³	Mounting example: • 8HP2 003 • 8HP1 283   Enclosure volume at least 90 dm ³	Mounting example: • 8HP2 004 • 8HP1 284   Enclosure volume at least 135 dm ³
250 A	Mounting example: • 8HP2 012   Enclosure volume at least 65 dm ³	Mounting example: • 8HP2 004 • 8HP1 284   Enclosure volume at least 135 dm ³	Mounting example: • 8HP2 004 • 8HP1 284   Enclosure volume at least 135 dm ³	Mounting example: • 8HP2 003 • 8HP1 283   Enclosure volume at least 180 dm ³

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

3VL molded case circuit breakers

Order No.	Rated current I_n A	Rated operational current I_e A	Poles	Release	Order No. of built-in molded case circuit breaker
8HP2 200-1 8HP2 200-2	63	63	3	Thermomagnetic Solid-state	3VL1 706-1DA33-0AA0 3VL2 706-1SB33-0AA0
8HP2 200-3 8HP2 200-4			4	Thermomagnetic Solid-state	3VL1 706-1EH43-0AA0 3VL2 706-1TA43-0AA0
8HP2 201-1 8HP2 201-2	100	100	3	Thermomagnetic Solid-state	3VL1 710-1DA33-0AA0 3VL2 710-1SB33-0AA0
8HP2 201-3 8HP2 201-4			4	Thermomagnetic Solid-state	3VL1 710-1EH43-0AA0 3VL2 710-1TA43-0AA0
8HP2 202-1 8HP2 202-2	160	160	3	Thermomagnetic Solid-state	3VL1 716-1DA33-0AA0 3VL2 716-1SB33-0AA0
8HP2 202-3 8HP2 202-4			4	Thermomagnetic Solid-state	3VL1 716-1EH43-0AA0 3VL2 716-1TA43-0AA0
8HP2 203-1 8HP2 203-2	250	250	3	Thermomagnetic Solid-state	3VL3 725-1DC33-0AA0 3VL3 725-1SB33-0AA0
8HP2 203-3 8HP2 203-4			4	Thermomagnetic Solid-state	3VL3 725-1EC43-0AA0 3VL3 725-1TA43-0AA0

Selection and ordering data

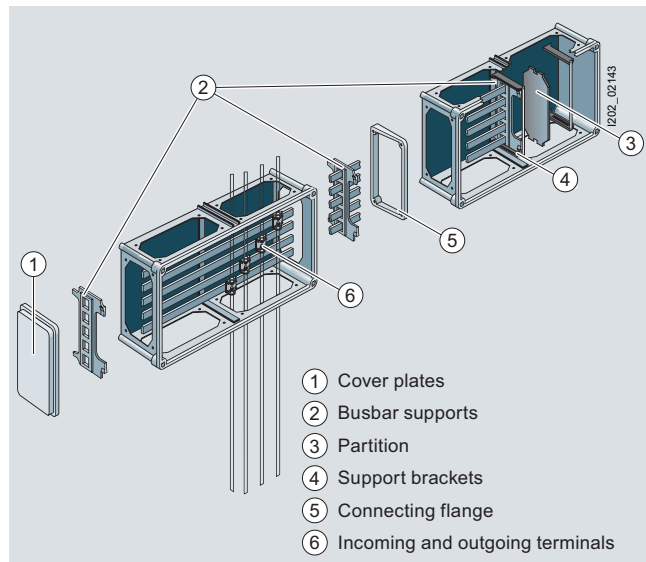
Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
 8HP2 202-3 Enclosures with built-in 3VL molded case circuit breaker • Size 3 • With intermediate frame • With rotary operating mechanism and terminal cover					
Type	Rated current I_n A	Poles	Release		
• Without connecting bars	63	3	Thermomagnetic Solid-state	8HP2 200-1	1 1 unit 046
		4	Thermomagnetic Solid-state	8HP2 200-2	1 1 unit 046
	100	3	Thermomagnetic Solid-state	8HP2 200-3	1 1 unit 046
		4	Thermomagnetic Solid-state	8HP2 200-4	1 1 unit 046
• With connecting bars	160	3	Thermomagnetic Solid-state	8HP2 201-1	1 1 unit 046
		4	Thermomagnetic Solid-state	8HP2 201-2	1 1 unit 046
	250	3	Thermomagnetic Solid-state	8HP2 201-3	1 1 unit 046
		4	Thermomagnetic Solid-state	8HP2 201-4	1 1 unit 046
	160	3	Thermomagnetic Solid-state	8HP2 202-1	1 1 unit 046
		4	Thermomagnetic Solid-state	8HP2 202-2	1 1 unit 046
	250	3	Thermomagnetic Solid-state	8HP2 202-3	1 1 unit 046
		4	Thermomagnetic Solid-state	8HP2 202-4	1 1 unit 046
250	3	Thermomagnetic Solid-state	8HP2 203-1	1 1 unit 046	
	4	Thermomagnetic Solid-state	8HP2 203-2	1 1 unit 046	
Note				8HP2 203-3	1 1 unit 046
				8HP2 203-4	1 1 unit 046
Please refer to the table containing information on "Design of the distribution boards" (see page 18/28).					

ALPHA 8HP Molded-Plastic Distribution Systems

Busbar Assembly Kits

Busbar supports

Overview



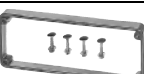
Features

- Entire enclosure width available for equipment
- High flexibility.

Mounting instructions

- Busbar supports can be fitted in the end cover plate as well as in the connecting flange between the enclosures
- For dimensional drawings, see [page 18/51](#).

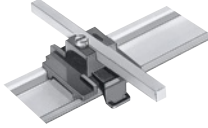
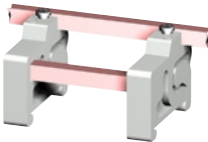
Selection and ordering data

Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
 8HP1 500	① End covers plate Including mounting material	8HP1 500	1	1 unit	046
 8HP1 701	② Busbar supports, for copper busbars Dimensions Rated current of copper busbars (85 °C) A Center-to-center spacing L1, L2, L3 mm	8HP1 701	1	1 unit	046
 8HP1 704	• 12 mm × 5 mm • 2 × (12 mm × 5 mm) • 20 mm × 8 mm • 2 × (20 mm × 8 mm)	250 400 400 630	1	1 unit	046
 8HP1 703	• 2 × (30 mm × 10 mm)	1000 58	1	1 unit	046
 8HP1 708	③ Partitions • As end plate or barrier • To mount a partition to a busbar support, a 8HP1 700 support bracket is required	8HP1 708	1	1 unit	046
 8HP1 700	④ Support brackets • 1 set = 2 support brackets • For mounting free-standing 8HP1 70 busbar supports • Busbar support not part of the scope of delivery	8HP1 700	1	1 unit	046
 8HP1 541	⑤ 8HP1 541 connecting flanges Including locking screws and nuts	8HP1 541	1	1 unit	046

ALPHA 8HP Molded-Plastic Distribution Systems

Busbar Assembly Kits

Busbar supports

Version				DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Busbar supports								
	Versions	Number	Cross-section mm					
 8JH4 230	• For PE/neutral busbars, for free mounting	1	6 × 6		8JH4 230	1	1 unit	046
 8HP6 601	• For standard mounting rail 35 mm	1	6 × 6		8HP6 601	1	1 unit	046
 8GF9 318-2	• For standard mounting rail 35 mm (1 pair)	2 × 1	6 × 6		8GF9 318-2	1	10 set	042
 8GF9 320-1	• Can be screwed on (1 pair)	2 × 1	6 × 6		8GF9 320-1	1	10 set	042
Busbar supports, 60 mm center-to-center spacing								
 8US19 23-2AA01	Mounting	Number	Cross-section mm					
	• External	1 × 3	12 × 5		8US1 923-2AA01	1	10 units	143
	• Internal	1 × 3	30 × 10		8US1 923-3AA01	1	10 units	143
 8US1 922-2AA00	Cover profile • Length: 1000 mm • Width: 20 ... 30 mm Busbar cross-section • 5 mm thick • 10 mm thick				8US1 922-2AA00 8US1 922-2BA00	1 1	10 units 10 units	143 143

ALPHA 8HP Molded-Plastic Distribution Systems

Busbar Assembly Kits

Busbar supports

Version		DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
	Flat copper profiles - When the busbar supports are mounted in end cover plates, the length of the busbars is equal to the total of the external dimensions of the busbar enclosure plus 12 mm. - One set = five busbars					
	Cross-section mm	Length				
	Cu 12 × 5	For 3 sections, each 307 mm				
		For 4 sections, each 307 mm				
		For 5 sections, each 307 mm				
		For 6 sections, each 307 mm				
	Cu 20 × 8	For 3 sections, each 307 mm				
		For 4 sections, each 307 mm				
		For 5 sections, each 307 mm				
		For 6 sections, each 307 mm				
	Flat copper profiles, bare - Length: 2.4 m - Bare					
	Cross-section mm					
	6 × 6					
	12 × 5					
	20 × 5					
	20 × 8 30 × 10					

ALPHA 8HP Molded-Plastic Distribution Systems

Busbar Assembly Kits

Fuse switch disconnectors

Overview

Mounting instructions

- For mounting dimensions, [see page 18/52](#).
- 40 mm center-to-center spacing for 8HP1 701.
- 49 mm center-to-center spacing for 8HP1 704.
- For further accessory components, [see LV 10.1, Chapter 7](#).

- Delivery does not include fuses. Selection of fuses [in Catalog LV 10.1, Chapter 5](#).
- Feeder terminals are required for NH000 disconnectors to increase the size of the conductor cross-section, if fuses > 125 A are used.

Selection and ordering data

	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
40 mm center-to-center spacing, 12 × 5 or 2 × (12 × 5)						
Basic units						
	Size	Rated current I_n of fuse A	Rated operational current I_e of fuse ¹⁾ A	Connection		
	000	160	120	Box terminal at either top or bottom	3NP1 123-1BB20	1 1 unit 143
	00	160	120	Flat connection at either top or bottom	3NP1 133-1BB10	1 1 unit 143
				Box terminal at either top or bottom	3NP1 133-1BB20	1 1 unit 143
Accessories						
	Description	Size				
	Auxiliary switches (CO contact)	000		3NP1 920-1FA00	1 1 unit 143	
		00		3NP1 930-1FA00	1 1 unit 143	
	Locking devices • 1 set = 10 units	000, 00		3NP1 900-1HA00	1 1 unit 143	
	Saddle terminals, single, 1.5 ... 70 mm ² • 1 set = 3 units • For flat connection	00		3NP1 933-1BA00	1 1 unit 143	
	Feeder terminals, 16 ... 95 mm ² • 1 set = 3 units • For box terminal • To increase the size of the conductor cross-section	000		3NP1 923-1BD00	1 1 unit 143	
	Fuse carriers with electronic EFM10 fuse monitoring • Mounting of fuse carriers only possible with raised cover or with intermediate frame, see page 18/10 .	000 00		3NP1 923-1GB20 3NP1 933-1GB20	1 1 unit 143 1 1 unit 143	

* You can order this quantity or a multiple thereof.

ALPHA 8HP Molded-Plastic Distribution Systems

Busbar Assembly Kits

Fuse switch disconnectors

Version				DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
49 mm center-to-center spacing, 20 × 8 or 2 × (20 × 8)								
Basic units								
Fuse switch disconnectors from A. Jung or Ostrach								
All disconnectors incl. cover								
Size	Rated current I_n A	Rated operational current I_e A	Connection					
00	160	145	up to 50 mm ² terminal clamp, top or bottom		8HP4 310	1	1 unit	046
2 × 00	160	145	up to 50 mm ² terminal clamp, top or bottom		8HP4 311	1	1 unit	046
1	250	225	up to 120 mm ² cable connection, top or bottom		8HP4 314	1	1 unit	046
Note								
Raised cover or intermediate frame required see page 18/10 .								
Accessories								
Covers for								
Versions								
8HP4 310					8HP6 411	1	1 unit	046
8HP4 311					8HP6 412	1	1 unit	046
8HP4 312					8HP6 413	1	1 unit	046

ALPHA 8HP Molded-Plastic Distribution Systems

Busbar Assembly Kits

Terminals

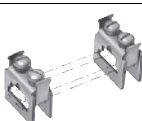
Selection and ordering data

	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Incoming and outgoing terminals for busbars 6 mm × 6 mm						
	Conductor cross-section in mm ² (solid or stranded)					
 8JH4 112	2.5 ... 16		8JH4 112	1	10 units	046
 8JH4 114	16 ... 35 (can be retrofitted without dismantling the busbar)		8JH4 114	1	10 units	046
Incoming and outgoing terminals for busbars 12 mm × 5 mm or 2 × (12 mm × 5 mm)						
	Conductor cross-section in mm ² (solid or stranded)					
	one bar	two bars				
 8US1 921	1.5 ... 16	--	▶ 8US1 921-2AA00	100	100 units	143
	4 ... 35	--	▶ 8US1 921-2AB00	100	50 units	143
	16 ... 70	--	▶ 8US1 921-2AD00	1	50 units	143
	16 ... 120	--	▶ 8US1 921-2AC00	1	50 units	143
	--	1.5 ... 16	▶ 8US1 921-2BA00	1	100 units	143
	--	4 ... 35	▶ 8US1 921-2BB00	1	50 units	143
	--	16 ... 70	▶ 8US1 921-2BD00	1	50 units	143
	--	16 ... 120	▶ 8US1 921-2BC00	1	50 units	143
 8JH4 102	1.5 ... 16	--	8JH4 102	1	10 units	046
 8JH4 104	10 ... 35	--	8JH4 104	1	10 units	046
 8JH4 105	16 ... 70	16 ... 35	8JH4 105	1	10 units	046
 8JH4 106	16 ... 95	16 ... 70	8JH4 106	1	10 units	046
 8JK3 061	25 ... 120	25 ... 50	8JK3 061	1	10 units	046

ALPHA 8HP Molded-Plastic Distribution Systems

Busbar Assembly Kits

Terminals

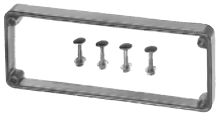
	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Incoming and outgoing terminals for bars 20 mm × 8 mm or 2 × (20 mm × 8 mm)						
	Conductor cross-section in mm ² (solid or stranded)	Clamping points	Conductors per clamping point			
 8JK3 113	1.5 ... 10	2	2	8JK3 113	1	1 unit 046
 8JK3 143	10 ... 70	2	1	8JK3 143	1	1 unit 046
 8JK3 171	50 ... 240	1	1	8JK3 171	1	1 unit 046
 8JK3 172	50 ... 240	1	2	8JK3 172	1	1 unit 046
Incoming and outgoing terminals, for bars 30 mm × 10 mm or 2 × (30 mm × 10 mm)						
	Conductor cross-section in mm ² (solid or stranded)	Description				
 8JK3 544	10 ... 70	In the case of double busbars, divide the terminals alternately between the two bars in order to even the load		8JK3 544	1	1 unit 046
 8HP1 724	M12, up to 2 × 240	Cable lug or bar connection		8HP1 724	1	1 unit 046
Extension terminals						
	Busbar in mm ²	Description				
 8JK3 201	• 12 × 5 2 × (12 × 5)	• 1 set = 2 terminals • When using single busbars, a copper connecting piece 12 × 5 mm must be made • When using 2 × Cu (12 × 5) mm the bars overlap in the area of the connection point.		8JK3 201	1	10 set 046
 8JK3 281	• 20 × 8 2 × (20 × 8)	• 1 set = 2 terminals • When using single busbars, a copper connecting piece 20 × 8 mm must be made • When using 2 × Cu (20 mm × 8 mm), the bars overlap in the area of the connection point.		8JK3 281	1	1 unit 046
 8HP1 728	• 2 × (30 × 10)	--		8HP1 728	1	1 unit 046

ALPHA 8HP Molded-Plastic Distribution Systems

Accessories

Accessories for enclosures

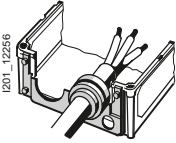
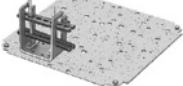
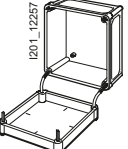
Selection and ordering data

Version		DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Connecting flanges						
Versions						
 8HP1 541	Including locking screws and nuts		8HP1 541	1	1 unit	046
	Including locking screws and nuts, can be used on the narrow side of size 1 enclosures		8HP1 542	1	1 unit	046
 8HP1 542						
 8HP1 541						
End cover plates						
- Cover plates including fixing screws and seals - Knockouts for fitting cable glands and cable entries						
Versions						
 8HP1 500	Without knockouts		8HP1 500	1	1 unit	046
	- With knockouts - 2 × M20 - 3 × M20/M25 - 4 × M25/M40 and 8HP1 80 cable entry.		8HP1 511-1	1	1 unit	046
 8HP1 511-1						
 8HP1 512-1	- 6 × M25/M32 - 2 × M25/M32/M40 and 8HP1 80 cable entry.		8HP1 512-1	1	1 unit	046
 8HP1 513-1	- 2 × M20 - 8 × M25/M32		8HP1 513-1	1	1 unit	046

ALPHA 8HP Molded-Plastic Distribution Systems

Accessories

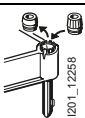
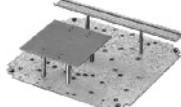
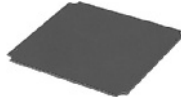
Accessories for enclosures

Version		DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
 Rubber cable entries - For inserting in Ø 38 mm knockouts (= Pg29) - Can also be used as blanking plug - Also suitable for 8HP1 51 end cover plates with knockouts - For position of knockouts on the enclosure, see page 18/50.						
	Number	Cross-section				
 8HP1 805	1	Ø 12 ... 29 mm	8HP1 805	1	1 unit	046
 8HP1 806	2	Ø 6 ... 15 mm	8HP1 806	1	1 unit	046
 8HP1 807	3	Ø 4 ... 12.5 mm	8HP1 807	1	1 unit	046
 8HP1 808	4	Ø 4 ... 12 mm	8HP1 808	1	1 unit	046
 Cable entry plates - Including - Fixing components - Seal - 2 x 8HC6 900 rubber cable entries for cable Ø 14 mm ... 65 mm - One knockout for Pg21 cable gland - To maintain the degree of protection, the cable entry must be sealed with a sealant			8HP1 520	1	1 unit	046
 8HP1 520						
 8HC6 900 Cable entries for cable entry plate - For cables Ø 14 mm ... 65 mm - Suitable for 8HP1 520 cable entry plate			8HC6 900	1	1 unit	046
 8HP1 525 Protective caps - For 8HC6 900 rubber cable entry - Prodproof!			8HP1 525	1	1 unit	046
 Note The lower figure shows an application example for 8HP1 525.						
 8HP6 322 Strain relief cleats - On mounting plate size 2 - For enclosure size 2 ... 4 - Complete for one cable - Mounting option for 2nd strain relief for double cable			8HP6 322	1	1 unit	046
 8HP1 530 Strain relief For individual mounting and for 8HP6 322			8HP1 530	1	1 unit	046
 8HP1 811 Screws for cover hinges 1 set = 2 units - Required for line protection if electrical equipment is installed in the cover			8HP1 811	1	1 unit	046

ALPHA 8HP Molded-Plastic Distribution Systems

Accessories

Accessories for enclosures

	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
	Quick-release cover locks • 1 set = 4 locks • Closing by hand • Opening only with a tool		8HP1 813	1	1 unit	046
	Grip ends • 1 set = 4 grip ends • Knurled • For opening by hand		8HP1 810	1	1 unit	046
	Sealing caps • 1 set = 2 caps • For sealing the quick-release cover locks		8HP1 815	1	1 unit	046
	Breathers, PG 16 • In the case of distribution boards used in an external environment - outside or in rooms with extreme temperature fluctuations - the breathers must be installed as low as possible on the underneath of the distribution board in order to prevent condensation water forming • Degree of protection, IP54 • For mounting options on the enclosure, see dimensional drawings on page 18/49		8HE8 541	1	1 unit	046
	Self-tapping screws • 1 set = 50 screws • Suitable for domes in the enclosure base		8HP6 621	1	1 unit	046
	Mounting rails • With threaded holes, M4 • Mounting length 236 mm • For mounting on enclosure base (dome, brass sockets) • Suitable for the flexible installation of 8HP6 510 standard mounting rails and 8JH1 41 support rails		8JK1 13	1	1 unit	046
	Standard mounting rails • TH 35 acc. to EN 60715 (1 mm thickness) • Mounting length 236 mm • For mounting on enclosure base (dome, brass sockets)		8HP6 510	1	1 unit	046
	Support rails • For meters • Time switches and timing relays • Mounting length 1 enclosure width = 236 mm		8JH1 41	1	1 unit	046
	Note Two 8JK1 13 mounting rails are required for installing the support rail in the enclosure					
	M5 stud bolts • Hexagonal • For screwing directly into the M5 threaded bushes in the enclosure base					
	Versions					
	• Length 10 mm		8HP6 615	1	1 unit	046
	• Length 15 mm		8HP6 611	1	1 unit	046
	• Length 30 mm		8HP6 612	1	1 unit	046
	• Length 35 mm		8HP6 614	1	1 unit	046
	• Length 50 mm		8HP6 613	1	1 unit	046
	M4 stud bolts For screwing into 8JK1 13 mounting rail or mounting plates					
	Versions					
	• Length 20 mm		8JH1 353	1	1 unit	143
	• Length 30 mm		8JH1 354	1	1 unit	143
	• Length 50 mm		8JH1 356	1	1 unit	143
	Blanking cover plates Made of molded plastic, RAL 7035, light gray					
	Versions					
	• For enclosure size 2		8HP6 586	1	1 unit	046
	• For enclosure size 3		8HP6 588	1	1 unit	046
	Holders for measuring instruments • For installation on mounting plates □ 96 mm or □ 72 mm • For installation on mounting plates • Suitable for measuring instruments □ 96 mm or □ 72 mm		8HP6 201	1	1 unit	046

Accessories

Terminals for mounting plate assembly

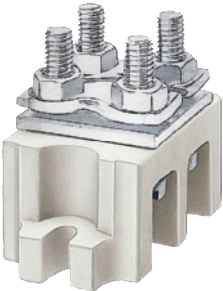
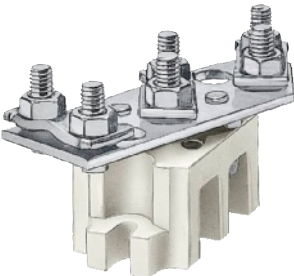
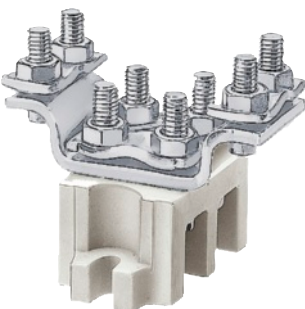
Overview

Base terminals, single-pole, insulated

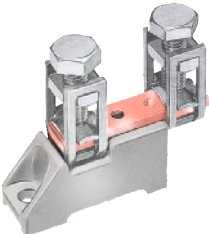
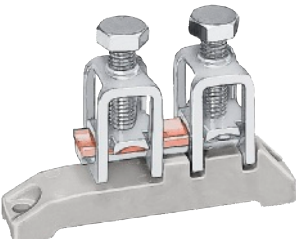
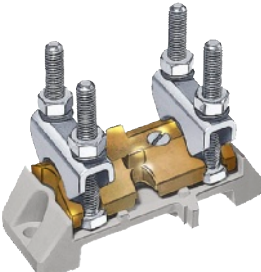
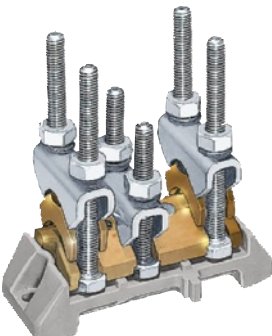
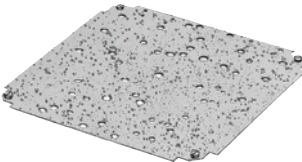
For conductor connection (solid or stranded):

- In the case of finely stranded and very finely stranded conductors, it is sometimes necessary to reduce the maximum cross-section by up to two units. If necessary the conductors must be protected against fanning out by using end sleeves or similar. When connecting Al conductors, commercially available Al-Cu adapter pieces or clamping connections must be used.
- When using different cross-sections, the larger conductor must be laid underneath
- The terminals are characterized by their extreme robustness and high-quality workmanship.

Selection and ordering data

	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Ceramic bases						
	Incoming cables		Outgoing cables			
	Number	Cross-section in mm ²	Number	Cross-section in mm ²		
	1	4 ... 35	1	4 ... 35	8JH4 04	1 1/25 units 046
	1	4 ... 35	1	4 ... 35	8JH4 043	1 1 unit 046
	1	4 ... 35	3	4 ... 35	8JH4 044	1 1 unit 046

Terminals for mounting plate assembly

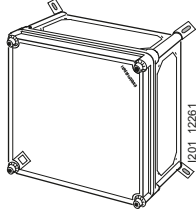
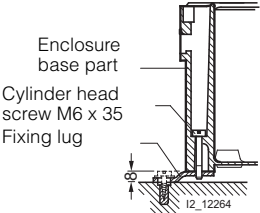
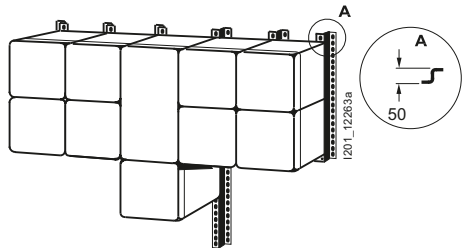
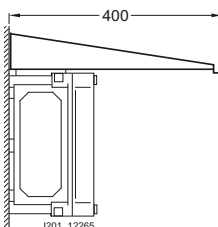
Version		DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Bases made of glass-fiber reinforced polyester resin						
Incoming cables		Outgoing cables				
Number	Cross-section in mm ²	Number	Cross-section in mm ²			
 8JK4 01	1 6 ... 70	1 6 ... 70	8JK4 01	1	1 unit	046
 8JK4 04	1 or 2 35 ... 150 6 ... 50	1 or 2 35 ... 150 6 ... 50	8JK4 04	1	1 unit	046
 8JK4 061	1 50 ... 240	1 50 ... 240	8JK4 061	1	1 unit	046
 8JK4 06	2 50 ... 240	2 50 ... 185	8JK4 06	1	1 unit	046
Molded-plastic partitions For 8JK4 06 and 8JK4 061 terminals			8JK4 100	1	1 unit	046
Mounting plates for terminal mounting • Size 2 • For max. 5 terminals, 8JK4 04, 8JK4 06 or 8JK4 061  8HP6 312			8HP6 312	1	1 unit	046

ALPHA 8HP Molded-Plastic Distribution Systems

Accessories

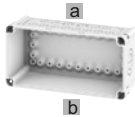
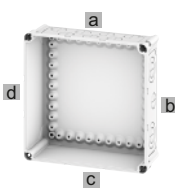
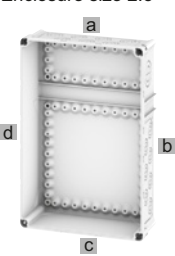
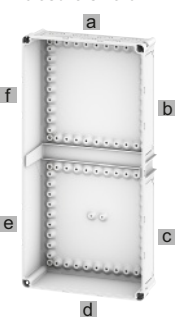
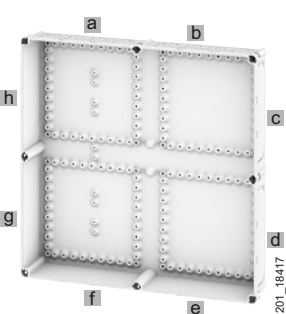
Wall mounting

Selection and ordering data

Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Fixing lugs • 1 set = 4 lugs • For individual enclosures and small distribution boards complete with cylinder head screws M6 x 35  		8HC3 800	1	1 unit	046
Wall-mounting brackets • With elongated holes 7 mm x 44 mm • Each connection point of the distribution board must be supported by a wall mounting bracket • The enclosure is mounted directly on site. Not suitable for the transport of pre-assembled distribution boards.					
Versions					
700 mm long		8HC3 510	1	1 unit	046
2000 mm long		8HP9 020	1	1 unit	046
					
					
Rain guards • Made of sendzimir-galvanized sheet metal • Thickness: 1.5 mm • Width = Enclosure width x 307 + 185 mm					
Versions					
• For wall mounting - Enclosure width = 1 - Enclosure width = 2 - Enclosure width = 3 - Enclosure width = 4		8HP9 121 8HP9 122 8HP9 123 8HP9 124	1 1 1 1	1 unit 1 unit 1 unit 1 unit	046 046 046 046
• With additional fixing for 8HP rack - Enclosure width = 3 - Enclosure width = 4		8HP9 133 8HP9 134	1 1	1 unit 1 unit	046 046
• With additional fixing for 8HP rack and supporting cross arm - Enclosure width = 5 - Enclosure width = 6		8HP9 135 8HP9 136	1 1	1 unit 1 unit	046 046

8HP9 121

Selection and ordering data

Version		DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG																			
 8HP9 000 Separating tools With one blade for easy cutting out of the flange knockouts in the side panels of the enclosures			8HP9 000	1	1 unit	046																			
 8HP9 001 Replacement blades			8HP9 001	1	1 unit	046																			
Enclosure size 1  Enclosure size 2  Enclosure size 2.5  Enclosure size 3  Enclosure size 4 			Cutouts - Please add "-Z" to the order number of the desired enclosure. - The respective cutout must be defined in the description of the supplement. - Please select the letter where the open cutout should be. - Once you have specified all enclosures in the "Z" order, please add our mounting order number 8HP1 898 with the appropriate number of total cutouts for all enclosures (see ordering example). <table><tr><th>Ordering example</th></tr><tr><td>Various enclosures with different cutouts should be defined for ordering at a plant.</td></tr><tr><td>Two enclosures of size 2 are required, cutouts a, b, c and a, c, d. An enclosure of size 3 is also required, cutouts b, c.</td></tr><tr><td><table><tr><th>Order text</th><th>Order number</th><th>Number</th></tr><tr><td>Enclosure size 2 with cutouts: a, b, c</td><td>8HP2 002-Z Z=a,b,c</td><td>3</td></tr><tr><td>Enclosure size 2 with cutouts: a, c, d</td><td>8HP2 002-Z Z=a, c, d</td><td>3</td></tr><tr><td>Enclosure size 3 with cutouts: b, c</td><td>8HP2 003-Z Z=b,c</td><td>2</td></tr><tr><td>= Number of mounting positions</td><td>8HP1 898</td><td>8</td></tr></table></td></tr></table> 8HP1 898	Ordering example	Various enclosures with different cutouts should be defined for ordering at a plant.	Two enclosures of size 2 are required, cutouts a, b, c and a, c, d. An enclosure of size 3 is also required, cutouts b, c.	<table><tr><th>Order text</th><th>Order number</th><th>Number</th></tr><tr><td>Enclosure size 2 with cutouts: a, b, c</td><td>8HP2 002-Z Z=a,b,c</td><td>3</td></tr><tr><td>Enclosure size 2 with cutouts: a, c, d</td><td>8HP2 002-Z Z=a, c, d</td><td>3</td></tr><tr><td>Enclosure size 3 with cutouts: b, c</td><td>8HP2 003-Z Z=b,c</td><td>2</td></tr><tr><td>= Number of mounting positions</td><td>8HP1 898</td><td>8</td></tr></table>	Order text	Order number	Number	Enclosure size 2 with cutouts: a, b, c	8HP2 002-Z Z=a,b,c	3	Enclosure size 2 with cutouts: a, c, d	8HP2 002-Z Z=a, c, d	3	Enclosure size 3 with cutouts: b, c	8HP2 003-Z Z=b,c	2	= Number of mounting positions	8HP1 898	8	1	1 unit	046
Ordering example																									
Various enclosures with different cutouts should be defined for ordering at a plant.																									
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<table><tr><th>Order text</th><th>Order number</th><th>Number</th></tr><tr><td>Enclosure size 2 with cutouts: a, b, c</td><td>8HP2 002-Z Z=a,b,c</td><td>3</td></tr><tr><td>Enclosure size 2 with cutouts: a, c, d</td><td>8HP2 002-Z Z=a, c, d</td><td>3</td></tr><tr><td>Enclosure size 3 with cutouts: b, c</td><td>8HP2 003-Z Z=b,c</td><td>2</td></tr><tr><td>= Number of mounting positions</td><td>8HP1 898</td><td>8</td></tr></table>	Order text	Order number	Number	Enclosure size 2 with cutouts: a, b, c	8HP2 002-Z Z=a,b,c	3	Enclosure size 2 with cutouts: a, c, d	8HP2 002-Z Z=a, c, d	3	Enclosure size 3 with cutouts: b, c	8HP2 003-Z Z=b,c	2	= Number of mounting positions	8HP1 898	8										
Order text	Order number	Number																							
Enclosure size 2 with cutouts: a, b, c	8HP2 002-Z Z=a,b,c	3																							
Enclosure size 2 with cutouts: a, c, d	8HP2 002-Z Z=a, c, d	3																							
Enclosure size 3 with cutouts: b, c	8HP2 003-Z Z=b,c	2																							
= Number of mounting positions	8HP1 898	8																							

ALPHA 8HP Molded-Plastic Distribution Systems

Accessories

Support rack

Overview



ALPHA 8HP, support rack and cable space cover

Support rack

Support rack made of galvanized sheet section, with self-tapping screws for connection.

Lateral profiles for creating distribution boards with a width of two to six sections, support profiles for creating distribution boards with a height of three to seven sections.

The height can be expanded by one section respectively using support profile extensions. The width can be expanded by adding further racks to existing distribution boards using connecting brackets.

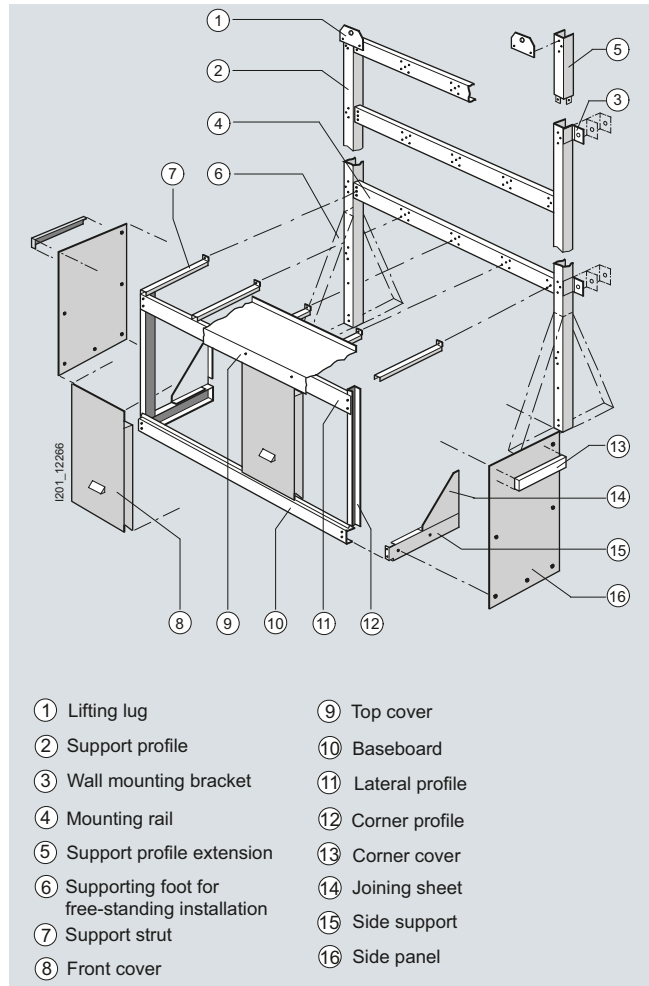
One section corresponds to the basic dimensions of the ALPHA 8HP system: 307 mm.

Cable space cover

Cable space cover for mounting on the ALPHA 8HP support rack, with plug-in molded-plastic covers in light gray, RAL 7035, available in heights 370 and 677 mm.

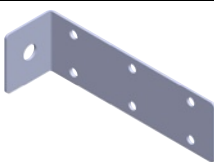
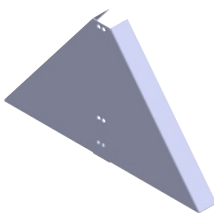
With the 8HP9 057 double flange, enclosures can also be fitted under the cable space cover.

If connecting several support racks, you need to order the matching covers. For each width expansion, only one set of side panels 4 and one set of corner covers 1 are required. We therefore recommend ordering these cable space covers for the expansion as individual parts – without the specified units.



Individual parts for support rack and cable space cover

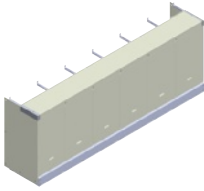
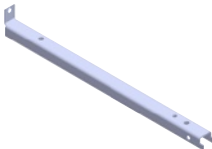
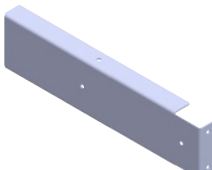
Selection and ordering data

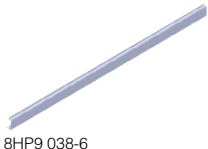
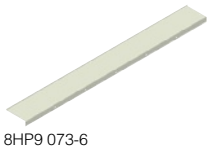
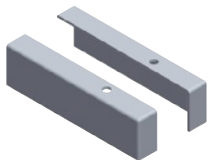
Version		DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG	
Components of the support rack							
 8HP9 030-6	② Support profiles • 1 set = 2 profiles (left and right) • Including - 4 wall-mounting brackets ③ - 2 lifting lugs ① - Mounting material						
	Height mm	Number of sections					
	921	3					
	1228	4					
	1535	5					
	1842	6					
2149	7						
 8HP9 032-6	④ Support rails Including mounting material						
	Number of sections	For width of distribution board mm					Length of rail mm
	2	614					521
	3	921					821
	4	1228					1228
	5	1535					1435
6	1842	1742					
 8HP9 034	⑤ Support profile extensions • 1 set = 2 extensions (left and right) • Dimensions: 307 mm		8HP9 03411 unit046				
 8HP9 033	③ Wall-mounting brackets • 1 set = 2 brackets • If needed additionally • For wall distances of 50 to 100 mm		8HP9 03311 unit046				
 8HP9 060	Connecting brackets For connecting two racks and for wall mounting at rear of enclosure		8HP9 06011 unit046				
 8HP9 031	Supporting feet For free-standing installation without cable space cover		8HP9 03111 unit046				
 8HP9 056	Screws and nuts • 1 set = 40 units • For fixing the ISO enclosure to the support rails		8HP9 05611 set046				

ALPHA 8HP Molded-Plastic Distribution Systems

Accessories

Support rack

	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Complete cable space cover						
 8HP9 116	Complete cable space covers Unassembled					
	Number of sections	Height mm				
	2	370 677	8HP9 102 8HP9 112	1 1	1 unit 1 unit	046 046
	3	370 677	8HP9 103 8HP9 113	1 1	1 unit 1 unit	046 046
	4	370 677	8HP9 104 8HP9 114	1 1	1 unit 1 unit	046 046
	5	370 677	8HP9 105 8HP9 115	1 1	1 unit 1 unit	046 046
	6	370 677	8HP9 106 8HP9 116	1 1	1 unit 1 unit	046 046
	Note					
	For individual parts of the <i>complete cable space cover</i> see "More information" on page 18/48.					
	Cable space cover, single					
 8HP9 062	⑫ Corner profiles 1 set = 2 profiles					
	Height mm					
	370 677	8HP9 061 8HP9 062	1 1	1 unit 1 unit	046 046	
 8HP9 063-6	⑪ Lateral profiles					
	Number of sections	Width mm				
	2	614	8HP9 063-2	1	1 unit	046
	3	921	8HP9 063-3	1	1 unit	046
	4	1228	8HP9 063-4	1	1 unit	046
	5	1534	8HP9 063-5	1	1 unit	046
	6	1842	8HP9 063-6	1	1 unit	046
 8HP9 067	⑦ Support struts Number of sections plus 1		8HP9 067	1	1 unit	046
 8HP9 045	⑮ Side supports		8HP9 045	1	2 units	046
 8HP9 046	⑭ Joining sheets		8HP9 046	1	2 units	046

	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
 8HP9 038-6	⑩ Baseboards					
	Sections	Width mm				
	2	614	8HP9 038-2	1	1 unit	046
	3	921	8HP9 038-3	1	1 unit	046
	4	1228	8HP9 038-4	1	1 unit	046
	5	1535	8HP9 038-5	1	1 unit	046
	6	1842	8HP9 038-6	1	1 unit	046
 8HP9 073-6	⑨ Top covers					
	Number of sections	Width mm				
	2	614	8HP9 073-2	1	1 unit	046
	3	921	8HP9 073-3	1	1 unit	046
	4	1228	8HP9 073-4	1	1 unit	046
	5	1534	8HP9 073-5	1	1 unit	046
	6	1842	8HP9 073-6	1	1 unit	046
 8HP9 083	⑬ Corner covers		8HP9 083	1	1 unit	046
	1 set = 2 corner covers					
 8HP9 072	⑧ Front covers					
	Height mm					
	370		8HP9 071	1	1 unit	046
	677		8HP9 072	1	1 unit	046
 8HP9 082	⑫ Side panels					
	1 set = 2 side panels					
	Height mm					
	370		8HP9 081	1	1 unit	046
	677		8HP9 082	1	1 unit	046
 8HP9 057	Double flanges		8HP9 057	1	1 unit	046
	For mounting enclosures under the cable space cover					
 8HP9 056	Screws and nuts		8HP9 058	1	1 unit	046
	Assortment sufficient for six sections					

ALPHA 8HP Molded-Plastic Distribution Systems

Accessories

Support rack

More information

Order numbers of the complete cable space

Order No. of complete cable space cover	Order No. of individual components										
	Support strut	Front cover	Top cover	Baseboard	Lateral profile	Corner profile	Corner cover	Joining sheet	Side support	Side panel	Screws and nuts
	⑦	⑧	⑨ 1 unit each	⑩ 1 unit each	⑪ 1 unit each	⑫ 1 set each	⑬ 1 set each	⑭ 2 units each	⑮ 2 units each	⑯ 1 set each	1 bag each
8HP9 102	3 × 8HP9 067	2 × 8HP9 071	8HP9 073-2	8HP9 038-2	8HP9 063-2	8HP9 061	8HP9 083	8HP9 046	8HP9 045	8HP9 081	8HP9 058
8HP9 112	3 × 8HP9 067	2 × 8HP9 072	8HP9 073-2	8HP9 038-2	8HP9 063-2	8HP9 062	8HP9 083	8HP9 046	8HP9 045	8HP9 082	8HP9 058
8HP9 103	4 × 8HP9 067	3 × 8HP9 071	8HP9 073-3	8HP9 038-3	8HP9 063-3	8HP9 061	8HP9 083	8HP9 046	8HP9 045	8HP9 081	8HP9 058
8HP9 113	4 × 8HP9 067	3 × 8HP9 072	8HP9 073-3	8HP9 038-3	8HP9 063-3	8HP9 062	8HP9 083	8HP9 046	8HP9 045	8HP9 082	8HP9 058
8HP9 104	5 × 8HP9 067	4 × 8HP9 071	8HP9 073-4	8HP9 038-4	8HP9 063-4	8HP9 061	8HP9 083	8HP9 046	8HP9 045	8HP9 081	8HP9 058
8HP9 114	5 × 8HP9 067	4 × 8HP9 072	8HP9 073-4	8HP9 038-4	8HP9 063-4	8HP9 062	8HP9 083	8HP9 046	8HP9 045	8HP9 082	8HP9 058
8HP9 105	6 × 8HP9 067	5 × 8HP9 071	8HP9 073-5	8HP9 038-5	8HP9 063-5	8HP9 061	8HP9 083	8HP9 046	8HP9 045	8HP9 081	8HP9 058
8HP9 115	6 × 8HP9 067	5 × 8HP9 072	8HP9 073-5	8HP9 038-5	8HP9 063-5	8HP9 062	8HP9 083	8HP9 046	8HP9 045	8HP9 082	8HP9 058
8HP9 106	7 × 8HP9 067	6 × 8HP9 071	8HP9 073-6	8HP9 038-6	8HP9 063-6	8HP9 061	8HP9 083	8HP9 046	8HP9 045	8HP9 081	8HP9 058
8HP9 116	7 × 8HP9 067	6 × 8HP9 072	8HP9 073-6	8HP9 038-6	8HP9 063-6	8HP9 062	8HP9 083	8HP9 046	8HP9 045	8HP9 082	8HP9 058

Support rack and cable space cover, rear view



ALPHA 8HP Molded-Plastic Distribution Systems

Dimensional Drawings

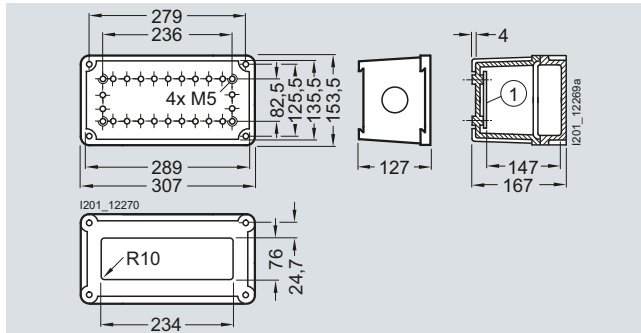
Single enclosures, knockouts

Dimensional drawings

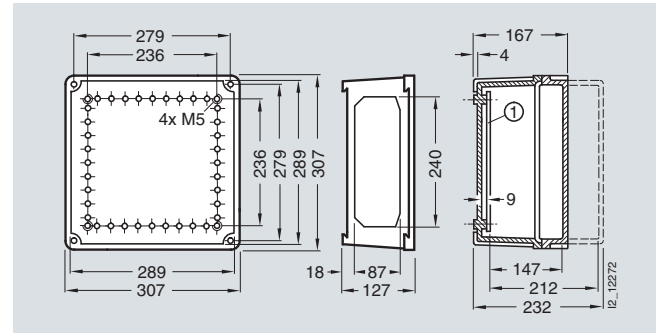
Note: More drawings can be found in the Technology Manual
<http://support.automation.siemens.com> -> "Product Support" -> "Electrical Installation Technology".

Empty enclosures

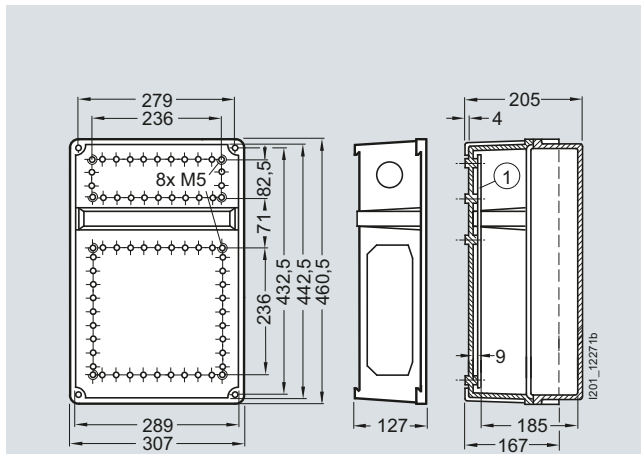
Empty enclosure, cover



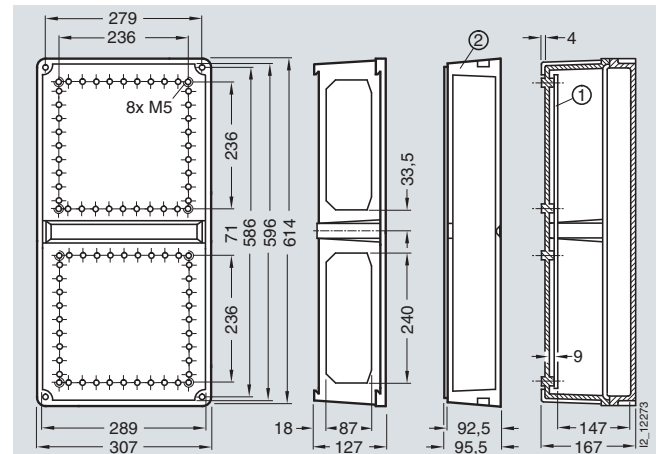
Enclosure size 1



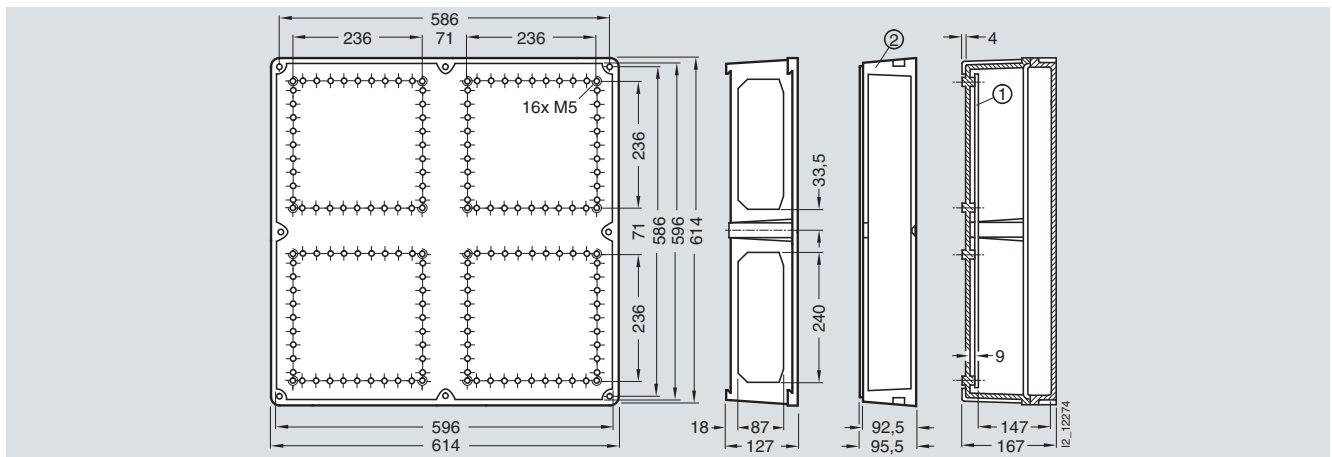
Enclosure size 2



Enclosure size 2.5



Enclosure size 3



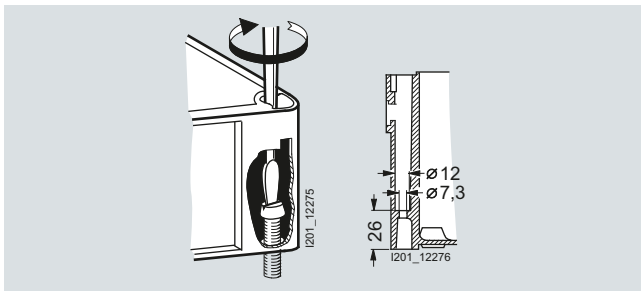
Enclosure size 4

- ① Mounting plate, 2 mm thick
- ② Intermediate frame for increasing mounting depth (can be multi-stacked)

ALPHA 8HP Molded-Plastic Distribution Systems

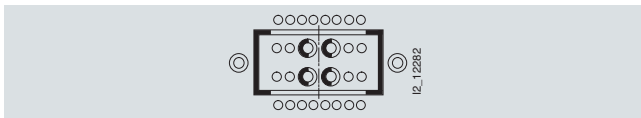
Dimensional Drawings

Single enclosures, knockouts

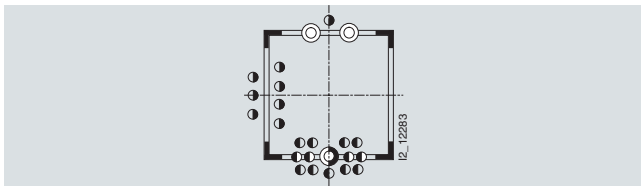


Enclosure fixing

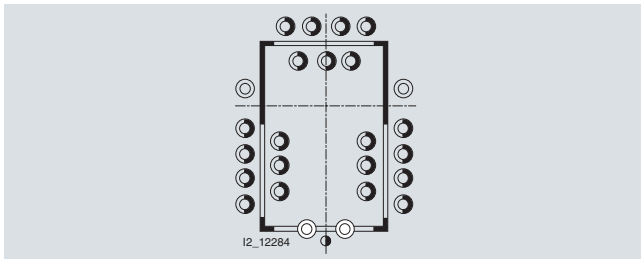
Knockouts for flange openings and cable entries



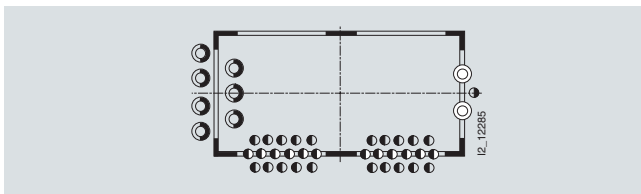
Enclosure size 1



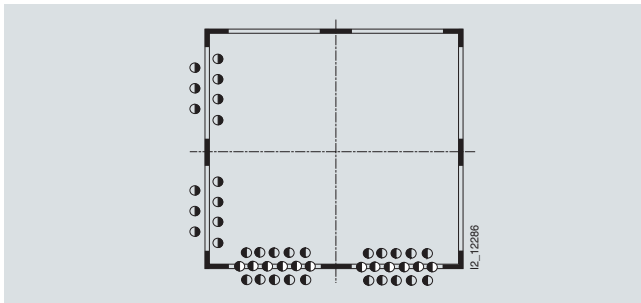
Enclosure size 2



Enclosure size 2.5



Enclosure size 3



Enclosure size 4

- Pg13.5
- Pg16
- Pg29
- ⊙ Pg21/Pg13.5
- ⊙ Pg29/Pg16
- ⊙ Pg48/Pg29
- ⏏ Flange knockouts

If the knockouts do not meet requirements, end cover plates can be mounted with or without knockouts, see page [18/50](#).

Knockouts for connection of enclosure to 8HP1 541 connecting flange

Heavy-gauge threaded joints	Hole diameter mm
Pg13.5	20.4
Pg16	22.5
Pg21	28.3
Pg29	37
Pg36	47
Pg42	54
Pg48	59.3

ALPHA 8HP Molded-Plastic Distribution Systems

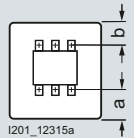
Dimensional Drawings

Enclosures with switching devices

Dimensional drawings

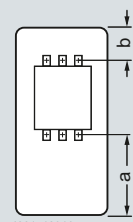
Enclosures with main and EMERGENCY-STOP switches

Connection compartments for integrated switch disconnectors



Type	Dimensions	
	a	b
3KA50	95	125
3KA53	95	95
3KA55	85	85
3KA57	85	85
3KE42	55	55
3KE43	55	55

Enclosure size 2

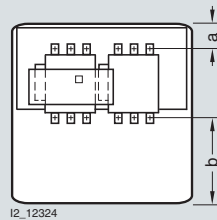
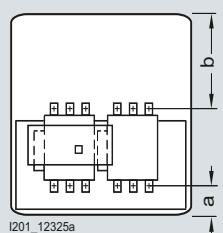


Type	Dimensions	
	a	b
3KA52	285	130
3KE43	285	130
3KE44	255	100
3KE45	250	95

Enclosure size 3

Enclosures with assembly kits for changeover and parallel switches

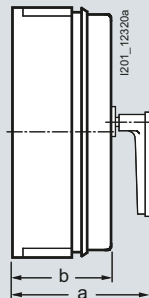
Mounting options for 3KE switch disconnectors

Type	Dimensions	
	a	b
3KE42	90	330
3KE43	90	330
3KE44	55	295

The mounting plate has boreholes for 2 PEN terminals each, either 8JK4 04 (150 mm²) or 8JK4 06 (240 mm²).

Enclosures with main and EMERGENCY-STOP switches, with switch disconnectors with fuses and with circuit breakers



Switch type	Enclosure size	Intermediate frames	Operating mechanism		a	b
3KA50, 3KL50	2	--	Knob	36 mm	300	232
3KA53, 3KL52	2	--	Knob	62 mm	300	232
3KA57, 3KL55	2	--	Handle	140 mm	322	232
3KE42, 3KE43	2	--	Handle	140 mm	322	232
3KE42, 3KE43	3	1	Handle	140 mm	350	260
3KE44, 3KE45	3	1	Handle	200 mm	350	260
3KE changeover contact	4	2	Double handle	280 mm	442	352
8HP4 11.	3 or 4	1	Double handle	280 mm	350	260

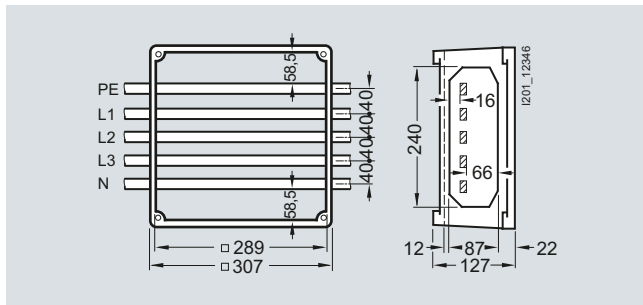
ALPHA 8HP Molded-Plastic Distribution Systems

Dimensional Drawings

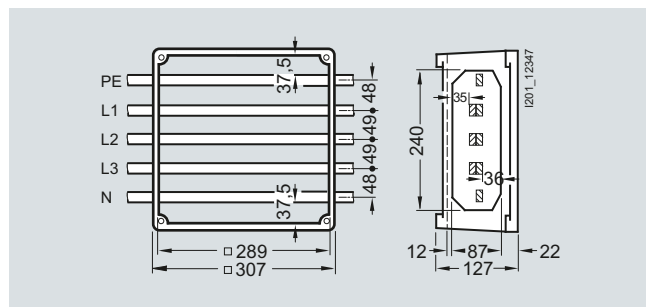
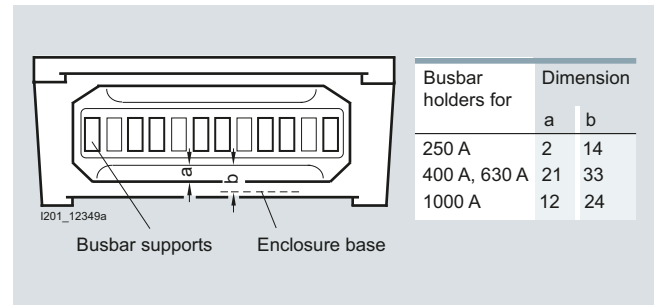
Busbar systems

Dimensional drawings

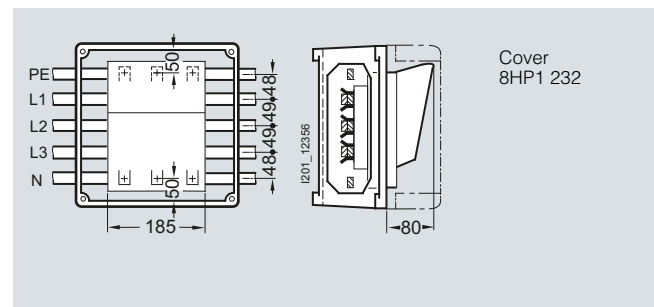
Position of the busbars in the enclosures



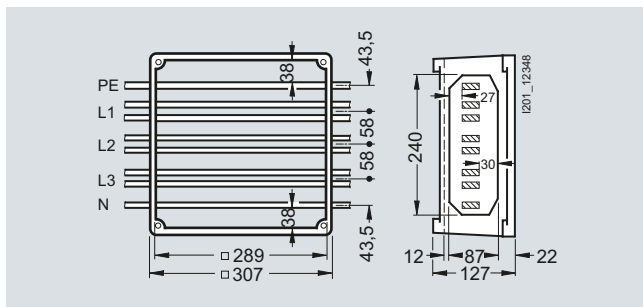
8HP1 701



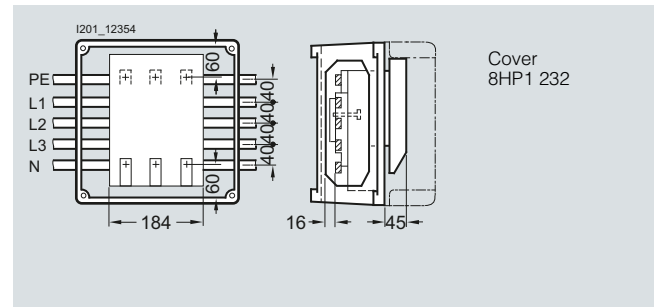
8HP1 704



Busbars 400/630 A for 8HP4 314 switches

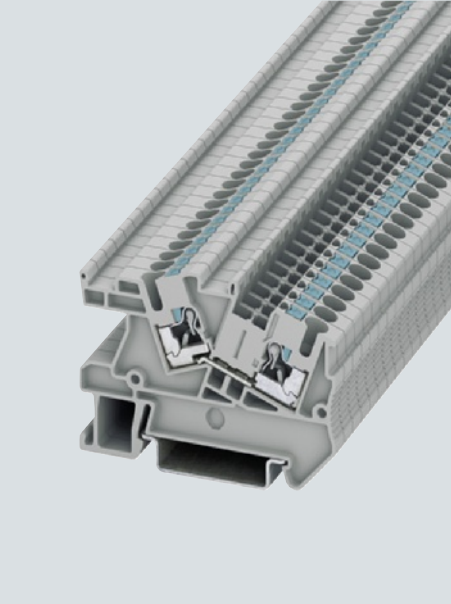


8HP1 703



Busbars 250 A for 3NP42 switches

iPo Installation Terminals



19/2	Introduction
19/4	8WH through-type terminals
19/6	8WH through-type screw terminals
19/8	8WH N-conductor isolating terminals
19/10	8WH N-conductor isolating screw terminals
19/12	8WH installation terminals
	Accessories
19/15	Accessories for labeling system
19/16	Standard labeling system
19/20	Mounting accessories

More terminal blocks

see **Catalog LV 52**

More technical product information:

Service&Support portal:

www.siemens.com/lowvoltage/technical-support

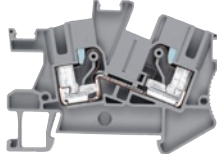
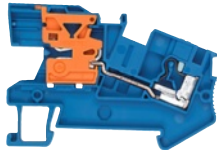
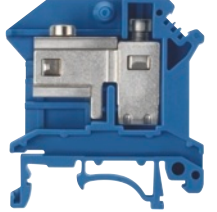
→ Product list:
Technical specifications

→ Entry list:
Updates / Downloads / FAQs
Manuals / Operating instructions /
Characteristic curves / Certificates

iPo Installation Terminals

Introduction

Overview

	Devices	Page	Comment
	8WH6 iPo plug-in terminals 8WH2 spring-loaded terminals 8WH5 combination plug-in terminals 8WH3 insulation displacement terminals 8WH1 screw terminals 8WA1 screw terminals 8WA2 spring-loaded terminals		See Catalog LV 52, ALPHA FIX Terminal Blocks
	8WH through-type terminals	19/4	Connection of incoming and outgoing conductors up to 6 mm ²
	8WH through-type screw terminals	19/6	Connection of incoming and outgoing conductors up to 35 mm ² with screw terminals
	8WH N-conductor isolating terminals	19/8	Terminal block up to 6 mm ² and connection of an N-busbar 10 mm × 3 mm
	8WH N-conductor isolating screw terminals	19/10	Terminal blocks with screw terminals up to 35 mm ² and connection of an N-busbar 10 mm × 3 mm
	8WH installation terminals	19/12	Terminal blocks for connection of an N-busbar 10 mm × 3 mm. These terminals offer up to three terminal functions in a single enclosure and are optimized for distribution board applications in installation technology.

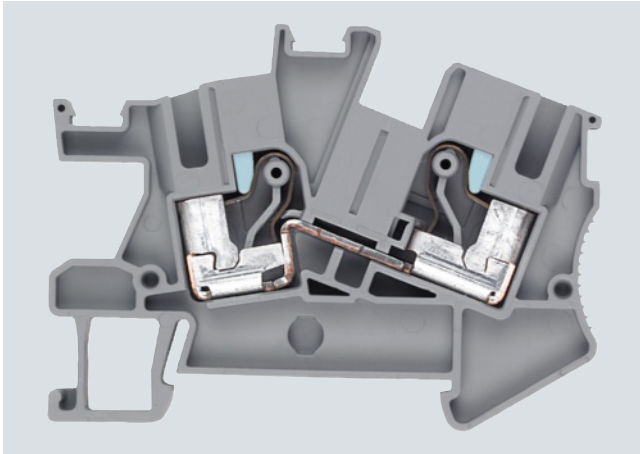
Conductor cross-section	Terminal type ¹⁾		Connection type →	iPo technology	Screw terminals	iPo technology	Order No. (digits 8 ... 12)
			Design →	Standard	Standard	Insta	
			No. of clamping points →	2	2		
			Order No. (digits 1 ... 7) →	8WH6 000	8WH1 001	8WH6 001	
		Color					
2.5 mm ²	Through-type		Gray	✓	--	--	0AF00
			Blue	✓	--	--	0AF01
	N-conductor isolating		Blue	✓	--	--	0BF00
	PE		Green-yellow	✓	--	--	0CF07
	Insta	L	Gray	--	--	✓	4QF00
				--	--	✓	4DF00
				--	--	✓	4CF00
				--	--	✓	4HF00
				--	--	✓	4EF00
				--	--	✓	4FF00
				--	--	✓	4GF00
				--	--	✓	4NF00
4 mm ²	Through-type		Gray	✓	--	--	0AG00
			Blue	✓	--	--	0AG01
	N-conductor isolating		Gray	✓	--	--	0BG00
	PE		Green-yellow	✓	--	--	0CG07
6 mm ²	Through-type		Gray	✓	--	--	0AH00
			Blue	✓	--	--	0AH01
	N-conductor isolating		Blue	✓	--	--	0BH00
	PE		Green-yellow	✓	--	--	0CH07
10 mm ²	N-conductor isolating		Blue	--	✓	--	0BJ01
16 mm ²	Through-type		Blue	--	✓	--	0AK01
			Gray	--	✓	--	0AK00
	N-conductor isolating		Blue	--	✓	--	0BK01
	PE		Green-yellow	--	✓	--	0CK07
35 mm ²	Through-type		Gray	--	✓	--	0AM00
			Blue	--	✓	--	0AM01
	N-conductor isolating		Blue	--	✓	--	0BM01
	PE		Green-yellow	--	✓	--	0CM07

¹⁾ Only the main terminal types are listed here. You will find further versions on the following pages.

iPo Installation Terminals

8WH through-type terminals

Overview



All types of conductors can be used with 8WH6 iPo technology.

Rigid conductors and crimped flexible conductors are plugged directly into the terminal.

Flexible, untreated conductors can be connected using a screw-driver.

These terminals can be used interconnected with 10 × 3 mm N-busbars.

A label can be snapped onto the middle of the terminal at the front. Additional labels can be flat-fitted to the clamping points.

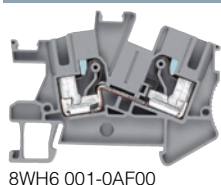
Technical specifications

		8WH6 001-0AF00 8WH6 001-0AF00	8WH6 001-0CF07	8WH6 001-0AG00 8WH6 001-0AG01	8WH6 000-0CG07	8WH6 001-0AH00 8WH6 001-0AH01	8WH6 001-0AH07
Cross-section	mm ²	2.5	2.5 (PE)	4	4 (PE)	6	6 (PE)
Dimensions							
• Width/length/width of cover	mm	5.2 / 59.5 / 2.2		6.2 / 66 / 2.2		8.2 / 66 / 2.2	
• Height (TS 35/7.5 / TS 35/15)	mm	43 / 50.5		46.3 / 53.8		50 / 57.5	
Rated current I_n cross-section	A/ mm ²	24 / 2.5	-- / 2.5	32 / 4	-- / 4	41 / 6	-- / 6
Max. load current I_{max} / cross-section	A/ mm ²	24 / 4	-- / 4	32 / 6	-- / 6	50/10	-- / 10
Rated voltage U_n	V	800	--	800	--	800	--
Connection capacities							
• Rigid-	mm ²	0.14 ... 4		0.2 ... 6		0.5 ... 10	
• Flexible with end sleeve	mm ²	0.25 ... 2.5		0.25 ... 4		0.5 ... 6	
Stripped length	mm	10		12	10	12	
Insulation type		PA					
Flammability class acc. to UL 94		V0					
Support rails/protective conductor busbars		--	See section "Support rails" in LV 52, Chapter 1	--	See section "Support rails" in LV 52, Chapter 1	--	See section "Support rails" in LV 52, Chapter 1

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
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Terminal size 2.5 mm²



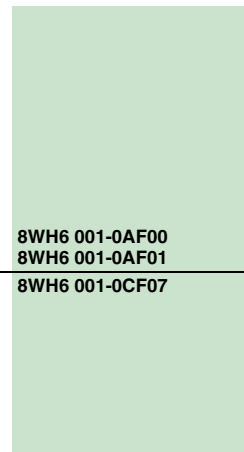
8WH6 001-0AF00

Through-type terminals, terminal size 2.5 mm², according to IEC 60 947-7-1

- Terminal width 5.2 mm, terminal length 59.5 mm
- Terminal height (NS 35/7.5) 43 mm
- Maximum load current $I_{max} = 24$ A
- Rated voltage $U_n = 800$ V
- Rigid 0.14 to 4 mm²
- Flexible with end sleeve 0.14 to 2.5 mm²
- AWG 26-12

Versions

- Gray
- Blue



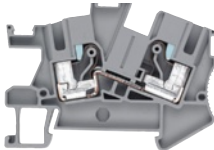
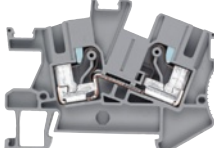
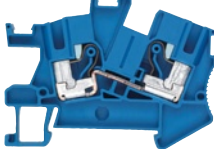
8WH6 001-0CF07

PE through-type terminals, terminal size 2.5 mm², according to IEC 60 947-7-2

- Green-yellow
- Terminal width 5.2 mm, terminal length 59.5 mm
- Terminal height 43 mm
- Cross-section max. 4 mm²
- Rigid 0.2 to 4 mm²
- Flexible with end sleeve 0.2 to 2.5 mm²
- AWG 24-12

8WH6 001-0AF00	1	50 units	044
8WH6 001-0AF01	1	50 units	044
8WH6 001-0CF07	1	50 units	044

8WH through-type terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
Terminal size 4 mm²						
 8WH6 001-0AG00		Through-type terminals, terminal size 4 mm², according to IEC 60947-7-1 - Terminal width 6.2 mm - Terminal length 66 mm - Terminal height 46.3 mm - Maximum load current $I_{\max} = 32$ A - Rated voltage $U_n = 800$ V - Rigid 0.2 to 6 mm² - Flexible with end sleeve 0.2 to 4 mm² - AWG 24-10 Versions - Gray - Blue				
 8WH6 001-0AG07		8WH6 001-0AG00 8WH6 001-0AG01	1	50 units	044	
		8WH6 001-0AG01	1	50 units	044	
Terminal size 4 mm²						
 8WH6 001-0AG07		8WH6 001-0CG07	1	50 units	044	
Terminal size 6 mm²						
 8WH6 001-0AH00		Through-type terminals, terminal size 6 mm², according to IEC 60947-7-1 - Terminal width 8.2 mm - Terminal length 66 mm - Terminal height 50 mm - Maximum load current $I_{\max} = 41$ A - Rated voltage $U_n = 800$ V - Rigid 0.5 ... 10 mm² - Flexible with end sleeve 0.5 ... 6 mm² - AWG 20 ... 8 Versions - Gray - Blue				
 8WH6 001-0AH01						
 8WH6 001-0AH07		8WH6 001-0AH00 8WH6 001-0AH01	1	50 units	044	
		8WH6 001-0AH01	1	50 units	044	
Terminal size 6 mm²						
 8WH6 001-0AH07		8WH6 001-0CH07	1	50 units	044	
Accessories						
 8WH9 143-0AF01		Support brackets - Made of blue molded plastic - For holding the N-busbar Versions - For terminal size 2.5 to 4 mm² - For terminal size 6 mm²				
 8WH9 000-1WA00		8WH9 143-0AF01 8WH9 143-0AH01	1	50 units	044	
		8WH9 143-0AH01	1	50 units	044	
Accessories						
 8WH9 000-1WA00		8WH9 000-1WA00 8WH9 003-7WA00 8WH9 004-1WA00	100	50 units	044	
		8WH9 003-7WA00	100	50 units	044	
		8WH9 004-1WA00	100	50 units	044	

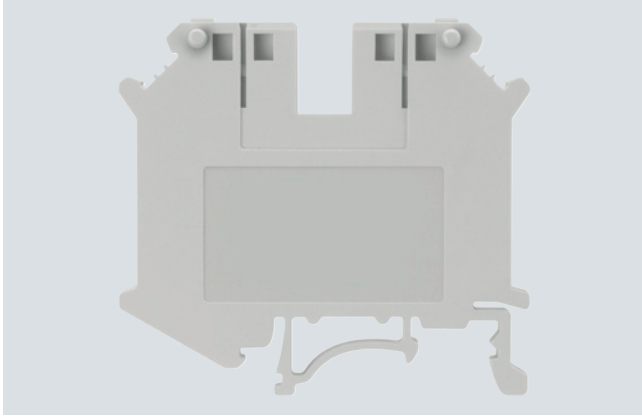
Note:

For general accessories see 19/15.

iPo Installation Terminals

8WH through-type screw terminals

Overview



We offer a comprehensive range of installation terminals using iPo technology for use in building control systems. We also offer a range of compact, cost-effective terminal blocks with screw terminals for connecting larger cross-sections.

Terminal blocks with N-busbars are most commonly used in building control systems. In order to enable the butt-mounting of different terminals, contact to the N-busbars is always on the same mounting level. This means that 8WH1-001 screw terminals and 8WH6-001 plug-in terminals can be used at random on a single support rail.

Labels can be snapped on to the clamping points at the front.

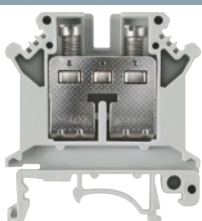
Technical specifications

		8WH1 001-0AK00 8WH1 001-0AK01	8WH1 001-0CK07	8WH1 001-0AM00 8WH1 001-0AM01	8WH1 001-0CM07
Cross-section	mm ²	16	16 (PE)	35	35 (PE)
Maximum cross-section with comb (rigid/flexible)	mm ²	16 / 16	--	35 / 35	--
Dimensions					
• Width / length / width of cover	mm	12.2 / 42.5 / 1.8	12.2 / 42.5 / --	15.2 / 55 / --	15.2 / 55 / --
• Height (TS 35/7.5 / TS 35/15)	mm	47 / 54.5 / 52	47 / 54.5 / 52	51 / 58.5 / 56	51 / 58.5 / 56
Max. load current I_{max} / cross-section	A / mm ²	101 / 25	101 / 25	125 / 35	125 / 35
Rated impulse withstand voltage/pollution degree	kV	6 / 3	6 / 3	8 / 3	8 / 3
Overvoltage category / insulating group		III / I	III / I	III / I	III / I
Connection capacities					
• For one conductor					
- Rigid	mm ²	1.5 ... 16	1.5 ... 16	0.75 ... 35	0.75 ... 35
- Flexible with end sleeve	mm ²	1.5 ... 16	1.5 ... 16	0.75 ... 35	0.75 ... 35
• For two conductors of same cross-section					
- Rigid / flexible	mm ²	1.5 ... 6 / 1.5 ... 6	1.5 ... 6 / 1.5 ... 4	0.75 ... 15 / 0.75 ... 10	0.75 ... 16 / 0.75 ... 10
- Flexible with end sleeve	mm ²	1.5 ... 4	1.5 ... 6	0.75 ... 10	0.75 ... 10
Stripped length	mm	11	11	16	16
Plug gauge (IEC 60947-1)		B7	B7	B9	B9
Clamping point: screw thread / tightening torque	Nm	M4 / 1.5 ... 1.8	M4 / 1.5 ... 1.8	M6 / 3.2 ... 3.7	M5 / 3.2 ... 3.7
Fixing: screw thread / tightening torque	Nm	--	M4 / 1.5 ... 1.8	--	M5 / 2.5 ... 3
Insulation type		PA	PA	PA	PA
Flammability class acc. to UL 94		V2	V2	V2	V2
Approval data (UL/cUL and CSA)					
• UL/cUL					
- Rated voltage / rated current / conductor sizes	V/A/AWG	600 / 85 / 22-4	-- / -- / 22-4	600 / 115 / 18-2	-- / -- / 18-2
• CSA					
- Rated voltage / rated current / conductor sizes	V/A/AWG	600 / 85 / 22-4	-- / -- / 22-4	600 / 130 / 18-2	-- / -- / --

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS* / P. unit	PG
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Terminal size 16 mm²



8WH1 001-0AK00

Through-type screw terminals, terminal size 16 mm²

Width 12.2 mm

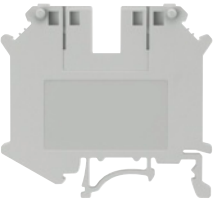
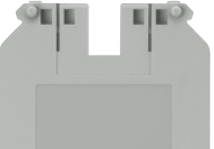
Versions

- Gray
- Blue

8WH1 001-0AK00
8WH1 001-0AK01

1 50 units 044
1 50 units 044

8WH through-type screw terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 16 mm² (continued)						
 PE through-type screw terminals, terminal size 16 mm² • Width 12.2 mm • Enclosed at both ends • Green-yellow		8WH1 001-0CK07		1	50 units	044
8WH1 001-0CK07						
Terminal size 35 mm²						
 Through-type screw terminals, terminal size 35 mm² • Width 16 mm • Enclosed at both ends Versions • Gray • Blue		8WH1 001-0AM00 8WH1 001-0AM01		1 1	50 units 50 units	044 044
8WH1 001-0AM00						
 PE through-type screw terminals, terminal size 35 mm² • Width 16 mm • Enclosed at both ends • Green-yellow		8WH1 001-0CM07		1	50 units	044
8WH1 001-0CM07						
Accessories						
 Covers, for screw terminals • 10/16 mm² • Width 2 mm • Gray		8WH9 005-3PA00		100	50 units	044
8WH9 005-3PA00						
 Bridges, 10-pole For through-type terminals, 16 mm², gray and blue		8WH9 030-6AL00		1	10 units	044
8WH9 030-6AL00						
 Bridges, 2-pole For through-type terminals, 35 mm², gray and blue		8WH9 030-6BC00		1	10 units	044
8WH9 030-6BC00						
 Bridges, 3-pole For through-type terminals, 35 mm², gray and blue		8WH9 030-6BD00		1	10 units	044
8WH9 030-6BD00						
 Compartment partitions For through-type terminals, 16 mm², gray and blue		8WH9 070-6HA00		100	50 units	044
8WH9 070-6HA00						
 Insulation plates For through-type terminals, 16 and 35 mm², gray and blue		8WH9 070-6GA00		100	50 units	044
8WH9 070-6GA00						

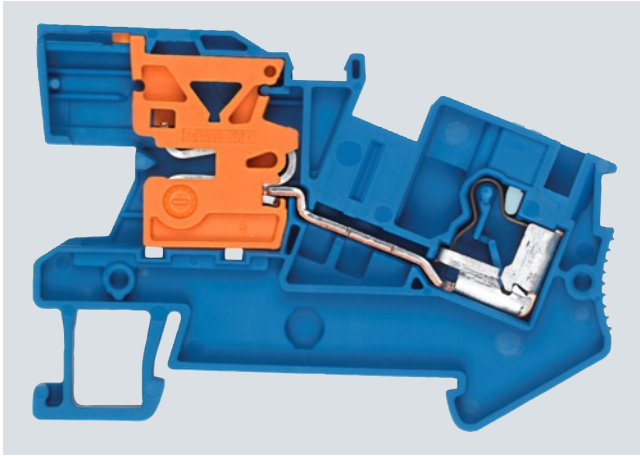
Note:

For general accessories see 19/15.

iPo Installation Terminals

8WH N-conductor isolating terminals

Overview



The N-conductor isolating valves are in the same position on all 8WH6-001 iPo plug-in terminals.

A 10 mm × 3 mm busbar is used.

Notice: Only use Cu busbars.

Mounting instructions To ensure that the N-busbars are securely mounted, the support brackets must be placed at the beginning and end of each terminal strip (in the case of longer terminal strips: every 20 cm).

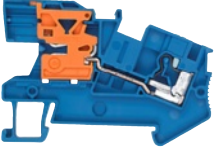
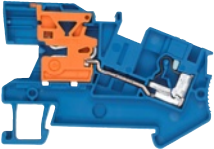
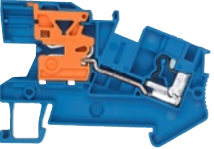
A label can be snapped onto the middle of the terminal at the front. Additional labels can be flat-fitted to the clamping points (not for N-busbar connection).

Technical specifications

		8WH6 001-0BF01	8WH6 001-0BG01	8WH6 001-0BH01
Cross-section	mm ²	2.5	4	6
Dimensions				
• Width / length / width of cover	mm	5.2 / 59 / 2.2	6.2 / 66 / 2.2	8.2 / 66 / 2.2
• Height (NS 35/7.5 / NS 35/15)	mm	46.3/ 53.8	46.3/ 53.8	50 / 57.5
Rated current I_n / cross-section	A/ mm ²	24 / 2.5	32 / 4	41 / 6
Rated voltage U_n	V	250	250	400
Connection capacities				
• Rigid	mm ²	0.14 ... 4	0.2 ... 6	0.5 ... 10
• Flexible with end sleeve	mm ²	0.25 ... 2.5	0.25 ... 4	0.5 ... 6
Stripped length	mm	10	10	12
Insulation type		PA	PA	PA
• Flammability class acc. to UL 94		V0	V0	V0

8WH N-conductor isolating terminals

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 2.5 mm²						
 8WH6 001-0BF01		N-conductor isolating terminals, terminal size 2.5 mm², according to IEC 60947-7-1 • Two clamping points • Terminal width 5.2 mm • Terminal length 59 mm • Terminal height (NS 35/7.5) 46.3 mm • Rated current / cross-section $I_n = 24$ A / 2.5 mm² • Rated voltage $U_n = 250$ V • Rigid 0.14 to 4 mm² • Flexible with end sleeve 0.14 to 2.5 mm² • AWG 26 to 12		8WH6 001-0BF01	1 50 units	044
Terminal size 4 mm²						
 8WH6 001-0BG01		N-conductor isolating terminals, terminal size 4 mm², according to IEC 60947-7-1 • Two clamping points • Terminal width 6.2 mm • Terminal length 66 mm • Terminal height (NS 35/7.5) 46.3 mm • Rated current / cross-section $I_n = 32$ A / 4 mm² • Rated voltage $U_n = 250$ V • Rigid 0.2 to 6 mm² • Flexible with end sleeve 0.25 to 4 mm² • AWG 24 to 10		8WH6 001-0BG01	1 50 units	044
Terminal size 6 mm²						
 8WH6 001-0BH01		N-conductor isolating terminals, terminal size 6 mm², according to IEC 60947-7-1 • Two clamping points • Terminal width 8.2 mm • Terminal length 66.3 mm • Terminal height (NS 35/7.5) 50 mm • Maximum load current $I_{max} = 41$ A • Rated current / cross-section $I_n = 41$ A / 6 mm² • Rated voltage $U_n = 400$ V • Rigid 0.5 to 10 mm² • Flexible with end sleeve 0.5 to 6 mm² • AWG 20-8		8WH6 001-0BH01	1 50 units	044
Accessories						
 8WH9 143-0AF01		Support brackets • Made of blue molded plastic • For holding the N-busbar Versions • For terminal size 2.5 to 4 mm² • For terminal size 6 mm²		8WH9 143-0AF01 8WH9 143-0AH01	1 50 units 1 50 units	044 044
 8WH9 000-1SA00		Covers Gray Versions • For terminal size 2.5 mm² • For terminal size 4 mm² • For terminal size 6 mm²		8WH9 000-1SA00 8WH9 003-1SA00 8WH9 004-1SA00	100 50 units 100 50 units 100 1 unit	044 044 044
 8WA2 867/8WA2 868/ 8WA2 870		Feeder terminals, for N-busbars • 6 × 6 mm and 10 × 3 mm • Bare Versions • Rated uninterrupted current 32 A, for connection of up to 4 mm² • Rated uninterrupted current 76 A, for connection of up to 25 mm² • Rated uninterrupted current 125 A, for connection of up to 35 mm²		8WA2 867 8WA2 868 8WA2 870	1 50 units 1 50 units 1 50 units	041 041 041
 8WA2 842		N-busbars, 10 mm × 3 mm • Tin-plated • 1,000 mm long		8WA2 842	1 1 unit	041

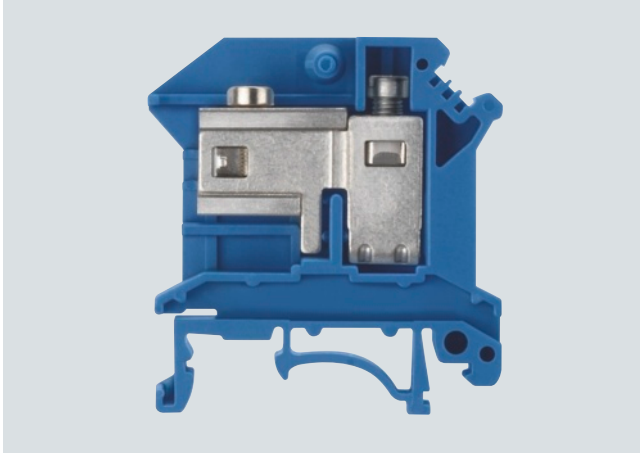
Note:

For general accessories see 19/15.

iPo Installation Terminals

8WH N-conductor isolating screw terminals

Overview



We offer a comprehensive range of installation terminals with iPo plug-in connection for use in building control systems. We also offer a range of compact, cost-effective terminal blocks with screw terminals for connecting larger cross-sections.

Terminal blocks with N-busbars are most commonly used in building control systems. In order to enable the butt-mounting of different terminals, contact to the N-busbars is always on the same mounting level. This means that 8WH1-001 screw terminals and 8WH6-001 plug-in terminals can be used at random on a single support rail.

The compact design of the N-conductor isolating terminals provides for a clearly arranged terminal strip. The N-busbar can be connected either through the terminal or through the conductor isolating valve of the N-conductor isolating terminal. N-conductor isolating terminals also make it easy to perform insulation measurements.

Labels can be snapped on to the clamping points (screws) at the front.

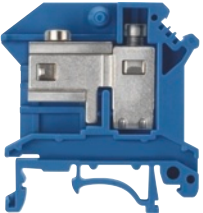
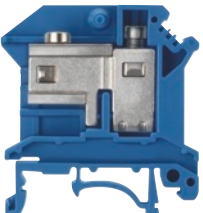
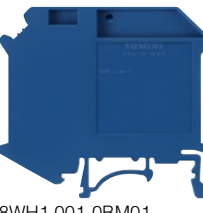
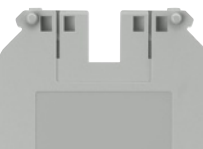
Notice: Only use Cu busbars.

Technical specifications

		8WH1 001-0BJ01	8WH1 001-0BK01	8WH1 001-0BM01
Cross-section	mm ²	10	16	35
Dimensions				
• Width / length / width of cover	mm	10.2 / 43.5 / 1.8	12.2 / 43.5 / 1.5	16 / 55 / --
• Height (TS 35/7.5 / TS 35/15)	mm	47 / 54.5 / 52	54 / 61.5 / 59	51 / 58.5 / 56
Max. load current I_{max} /cross-section	A/ mm ²	63 / 16	90 / 25	110 / 35
Rated impulse withstand voltage/pollution degree	kV	6 / 3	6 / 3	6 / 3
Overvoltage category / insulating group		III / I	III / I	III / I
Connection capacities				
• For one conductor				
- Rigid	mm ²	0.5 ... 10	1.5 ... 16	0.75 ... 35
- Flexible with end sleeve	mm ²	0.5 ... 6	1.5 ... 16	0.75 ... 35
• For two conductors of same cross-section				
- Rigid / flexible	mm ²	0.5 ... 4 / 0.5 ... 4	1.5 ... 6 / 1.5 ... 4	0.75 ... 16 / 0.75 ... 10
- Flexible with end sleeve	mm ²	0.5 ... 2.5	1.5 ... 8	0.75 ... 10
Stripped length	mm	12	11	16
Plug gauge (IEC 60947-1)		B5	B6	B9
Clamping point: screw thread / tightening torque	Nm	M4 / 1.5 ... 1.8	M4 / 1.5 ... 1.8	M6 / 3.2 ... 3.7
Fixing: screw thread / tightening torque	Nm	M3 / 0.6 ... 0.8	M3 / 0.6 ... 0.8	M5 / 2.5 ... 3
Insulation type		PA	PA	PA
Flammability class acc. to UL 94		V2	V2	V2

8WH N-conductor isolating screw terminals

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Terminal size 10 mm²						
 N-conductor isolating screw terminals, terminal size 10 mm² - Width 10 mm - Blue 8WH1 001-0BJ01		8WH1 001-0BJ01		1	50 units	044
Terminal size 16 mm²						
 N-conductor isolating screw terminals, terminal size 16 mm² - Width 12 mm - Blue 8WH1 001-0BK01		8WH1 001-0BK01		1	50 units	044
Terminal size 35 mm²						
 N-conductor isolating screw terminals, terminal size 35 mm² - Width 16 mm - Enclosed at both ends - Blue 8WH1 001-0BM01		8WH1 001-0BM01		1	50 units	044
Accessories						
 Covers, for screw terminals 10/16 mm² - Width 2 mm - Gray 8WH9 005-3PA00		8WH9 005-3PA00		100	50 units	044
 Support bracket for N-conductor isolating screw terminals, terminal size 10 ... 35 mm² - For holding the N-busbar - To be placed every 20 cm 2 mm wide 8WH9 141-0BA01		8WH9 141-0BA01		1	50 units	044
 Terminals Blue Versions - To 16 mm², width: 10.3 mm - To 35 mm², width: 14.4 mm, enclosed at both ends 8WH9 126-0BA01		8WH9 126-0BA01 8WH9 127-0BA01		1 1	50 units 50 units	044 044
 N-busbar, 10 mm × 3 mm - Made of copper, tin-plated 1,000 mm long 8WA2 842		8WA2 842		1	1 unit	041

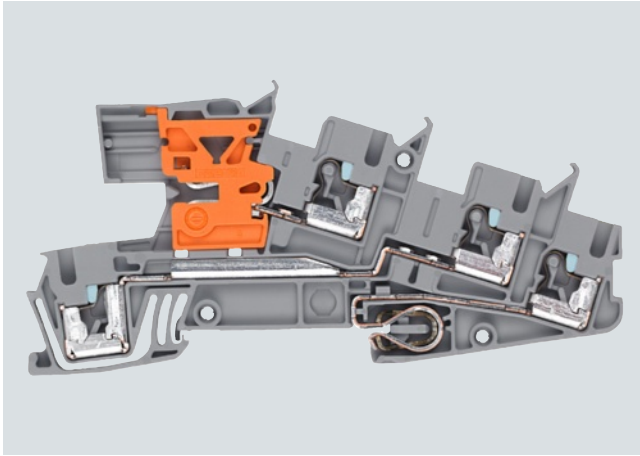
Note:

For general accessories see 19/15.

iPo Installation Terminals

8WH installation terminals

Overview



The three-tier plug-in terminals offer optimum operating characteristics for modern building installation systems. The plug-in connection allows the tool-free wiring of solid conductors.

These terminals can be used interconnected with 10 × 3 mm N-busbars.

Notice: Only use Cu busbars.

Thanks to their compact design, the three-tier terminals can be installed in all types of building distribution boards. A load circuit can be quickly and easily wired, for example using a 5.2 mm wide installation terminal with terminal size 2.5 mm² and PE/L/NT connections.

The double bridge slots support a multitude of individual switching tasks. This means, for example, that it is practical and convenient to make subsequent modifications to the installation.

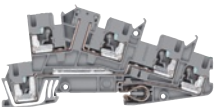
Labels can be flat-fitted to the clamping points.

Technical specifications

Installation terminals, standard version		8WH6 001-4QF00 8WH6 001-4DF00 8WH6 001-4CF00	8WH6 001-0HF00 8WH6 001-4EF00	8WH6 001-4FF00
Installation terminals with isolating function			8WH6 001-4GF00 8WH6 001-4NF00 8WH6 001-4PF00 8WH6 001-4MF00	
Cross-section	mm ²	2.5		
Dimensions				
• Width / length / width of cover	mm	5.5 / 101 / 2.2		
• Height (TS 35/7.5 / TS 35/15)	mm	50.5 / 58		
Rated current I_n cross-section	A/ mm ²	24 / 4		
Max. load current I_{max} / cross-section	A/ mm ²	30 ¹⁾ / 4		
Rated voltage U_n	V	400 (L-L) 250 (L-N or L-PE)		
Connection capacities				
• Rigid	mm ²	0.14 ... 4		
• Flexible with end sleeve	mm ²	0.14 ... 2.5		
Stripped length without insulation stop sleeve (no insulation stop sleeves should be used when using end sleeves)	mm	10		
Stripped length with insulation stop sleeve (no insulation stop sleeves should be used when using end sleeves)	mm	10		
Plug gauge (IEC 60947-1)		A3		
Insulation type		PA		
Flammability class acc. to UL 94		V0		

¹⁾ 3-pole terminal block

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
Terminal size 2.5 mm²						
 8WH6 001-4QF00						
 8WH6 001-4DF00						
 8WH6 001-4HF00						
 8WH6 001-4FF00						
Installation terminals, terminal size 2.5 mm², standard version for N-busbar • Gray • Terminal width 5.2 mm • Rigid 0.14 ... 4 mm² • Flexible with end sleeve 0.14 ... 2.5 mm² • AWG 26-12 • Rated current / cross-section $I_n = 24 \text{ A} / 4 \text{ mm}^2$ • Rated voltage $U_n = 400 \text{ V (L-L)}$ $U_n = 250 \text{ V (L-N or L-PE)}$						
Versions • L • L/L • L/N • PE/L/L • PE/L/N • PE/L/NT						
8WH6 001-4QF00 1 50 units 044 8WH6 001-4DF00 1 50 units 044 8WH6 001-4CF00 1 50 units 044 8WH6 001-4HF00 1 50 units 044 8WH6 001-4EF00 1 50 units 044 8WH6 001-4FF00 1 50 units 044						
 8WH6 001-4NF00						
Installation terminals, terminal size 2.5 mm², with isolating blade • Gray • Terminal width 5.2 mm • Rigid 0.25 ... 4 mm² • Flexible with end sleeve 0.25 ... 2.5 mm² • AWG 22-12 • Rated current / cross-section $I_n = 24 \text{ A} / 4 \text{ mm}^2$ • Rated voltage $U_n = 400 \text{ V (L-L)}$ $U_n = 250 \text{ V (L-N or L-PE)}$						
Versions • PE/L/L (standard version, suitable for isolating terminals) • PE/L/N isolating blade • PE/L/L isolating blade						
8WH6 001-4PF00 1 50 units 044 8WH6 001-4GF00 1 50 units 044 8WH6 001-4NF00 1 50 units 044						
 8WH6 001-4PF00						
Installation terminals, terminal size 2.5 mm², for isolating function • Gray • Terminal width 5.2 mm • Rigid 0.25 ... 4 mm² • Flexible with end sleeve 0.25 ... 2.5 mm² • AWG 22-12 • Rated current / cross-section $I_n = 24 \text{ A} / 4 \text{ mm}^2$ • Rated voltage $U_n = 400 \text{ V (L-L)}$ $U_n = 250 \text{ V (L-PE)}$						
Versions • PE/L/L (standard version, suitable for isolating terminals) • PE/L/L isolation						
8WH6 001-4PF00 1 50 units 044 8WH6 001-4MF00 1 50 units 044						

iPo Installation Terminals

8WH installation terminals

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Accessories						
 Support brackets, for terminal size 2.5 mm² - For holding the N-busbar - To be placed every 20 cm 2 mm wide		8WH9 142-0AF01		1	50 units	044
 Covers, for terminal size 2.5 mm² gray		8WH9 000-3SA00		1	50 units	044
 Covers, for terminal size 2.5 mm² and isolating terminal in same contour Gray		8WH9 000-6SA00		1	50 units	044
 Feeder terminals, for N-busbars 6 × 6 mm and 10 × 3 mm - Bare						
Versions - Rated uninterrupted current 32 A, for connection of up to 4 mm² - Rated uninterrupted current 76 A, for connection of up to 25 mm² - Rated uninterrupted current 125 A, for connection of up to 35 mm²						
 N-busbar, 10 mm × 3 mm - Made of copper, tin-plated 1,000 mm long		8WA2 867		1	50 units	041
		8WA2 868		1	50 units	041
		8WA2 870		1	50 units	041
 N-busbar, 10 mm × 3 mm - Made of copper, tin-plated 1,000 mm long		8WA2 842		1	1 unit	041

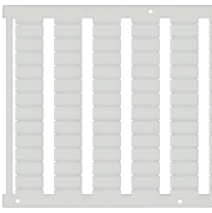
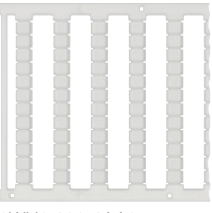
8WA2 842

Note:

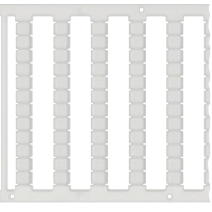
For general accessories [see 19/15](#).

Selection and ordering data

Accessories for ALPHA FIX PRINT printer labeling system

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 8WH9 060-6BA08		Fluid cartridges for ALPHA FIX PRINT printers				
		Black		1	1 unit	044
 8WH8 202-1AA05		Labels, front, for labeling 8WH terminal blocks using the ALPHA FIX PRINT printers				
		Versions • 4.2 mm wide • 5.2 mm wide • 6.2 mm wide • 8.2 mm wide • 10.2 mm wide • 12.2 mm wide • 16.2 mm wide		8WH8 202-1AA05 8WH8 202-2AA05 8WH8 202-3AA05 8WH8 202-4AA05 8WH8 202-5AA05 8WH8 202-6AA05 8WH8 202-7AA05	100 1200 units 100 960 units 100 800 units 100 560 units 100 480 units 100 400 units 100 320 units	044 044 044 044 044 044 044
 8WH8 203-1AA05		Labels, flat, for labeling 8WH terminal blocks using the ALPHA FIX PRINT printers				
		Versions • 4.2 mm wide • 5.2 mm wide • 6.2 mm wide • 8.2 mm wide • 10.2 mm wide • 12.2 mm wide • 16.2 mm wide		8WH8 203-1AA05 8WH8 203-2AA05 8WH8 203-3AA05 8WH8 203-4AA05 8WH8 203-5AA05 8WH8 203-6AA05 8WH8 203-7AA05	100 1200 units 100 960 units 100 800 units 100 560 units 100 480 units 100 400 units 100 320 units	044 044 044 044 044 044 044

Accessories for plotter labeling system

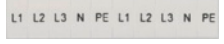
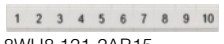
Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 8WH8 113-1AA05		Labels, for plotter system				
		Versions • Front - For terminal width 4.2 mm - For terminal width 5.2 and 6.2 mm - For terminal width 8.2, 10, 12 and 16 mm • Flat - For terminal width 4.2, 5.2, 6.2, 8.2 and 10 mm - For terminal width 12 and 16 mm		8WH8 112-1AA05 8WH8 112-2AA05 8WH8 112-4AA05 8WH8 113-1AA05 8WH8 113-6AA05	100 1024 units 100 1400 units 100 1000 units 100 2000 units 100 1080 units	044 044 044 044 044
		Note The labels can be inscribed only by using the plotter or by hand.				

iPo Installation Terminals

Accessories

Standard labeling system

Selection and ordering data

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
 8WH8 120-2AB05	Labels, front, for terminal width 5.2 mm and terminal size 2.5 mm² (8WH3: 1.5 mm²), with horizontal inscription						
	Versions • Consecutive numbering - 1 ... 10 (10×) - 11 ... 20 (10×) - 21 ... 30 (10×) - 31 ... 40 (10×) - 41 ... 50 (10×) - 51 ... 60 (10×) - 61 ... 70 (10×) - 71 ... 80 (10×) - 81 ... 90 (10×) - 91 ... 100 (10×) • L1/L2/L3/N/PE • Custom inscription		8WH8 120-2A□□□ ▲▲▲ B05 B15 B25 B35 B45 B55 B65 B75 B85 C05 A15		100	100 units	044
 8WH8 120-2AA15	Labels, front, for terminal width 5.2 mm and terminal size 2.5 mm² (8WH3: 1.5 mm²), with vertical inscription						
	Versions • Consecutive numbering - 1 ... 10 (10×) - 11 ... 20 (10×) - 21 ... 30 (10×) - 31 ... 40 (10×) - 41 ... 50 (10×) - 51 ... 60 (10×) - 61 ... 70 (10×) - 71 ... 80 (10×) - 81 ... 90 (10×) - 91 ... 100 (10×) • Custom inscription		8WH8 120-2XA05		100	100 units	044
 8WH8 140-2AB05	Labels, front, for terminal width 5.2 mm and terminal size 2.5 mm² (8WH3: 1.5 mm²), with horizontal inscription						
	Versions • Consecutive numbering - 1 ... 10 (10×) - 11 ... 20 (10×) - 21 ... 30 (10×) - 31 ... 40 (10×) - 41 ... 50 (10×) - 51 ... 60 (10×) - 61 ... 70 (10×) - 71 ... 80 (10×) - 81 ... 90 (10×) - 91 ... 100 (10×) • Custom inscription		8WH8 140-2A□□□ ▲▲▲ B05 B15 B25 B35 B45 B55 B65 B75 B85 C05		100	100 units	044
 8WH8 140-2XA05	Labels, front, for terminal width 5.2 mm and terminal size 2.5 mm² (8WH3: 1.5 mm²), blank						
			8WH8 140-2XA05		100	100 units	044
 8WH8 110-2AA05	Labels, front, for terminal width 5.2 mm and terminal size 2.5 mm² (8WH3: 1.5 mm²), blank						
			8WH8 110-2AA05		100	100 units	044
 8WH8 121-2AB15	Labels, flat, for terminal width 5.2 mm and terminal size 2.5 mm² (8WH3: 1.5 mm²), with horizontal inscription						
	Versions • Consecutive numbering - 1 ... 10 (10×) - 11 ... 20 (10×) - 21 ... 30 (10×) - 31 ... 40 (10×) - 41 ... 50 (10×) - 51 ... 60 (10×) - 61 ... 70 (10×) - 71 ... 80 (10×) - 81 ... 90 (10×) - 91 ... 100 (10×) • Custom inscription		8WH8 121-2A□□□ ▲▲▲ B05 B15 B25 B35 B45 B55 B65 B75 B85 C05		100	100 units	044
 8WH8 121-2XA05	Labels, flat, for terminal width 5.2 mm and terminal size 2.5 mm² (8WH3: 1.5 mm²), with horizontal inscription						
	Versions • Consecutive numbering - 1 ... 10 (10×) - 11 ... 20 (10×) - 21 ... 30 (10×) - 31 ... 40 (10×) - 41 ... 50 (10×) - 51 ... 60 (10×) - 61 ... 70 (10×) - 71 ... 80 (10×) - 81 ... 90 (10×) - 91 ... 100 (10×) • Custom inscription		8WH8 121-2XA05		100	100 units	044
 8WH8 141-2AB15	Labels, flat, for terminal width 5.2 mm and terminal size 2.5 mm² (8WH3: 1.5 mm²), with vertical inscription						
	Versions • Consecutive numbering - 1 ... 10 (10×) - 11 ... 20 (10×) - 21 ... 30 (10×) - 31 ... 40 (10×) - 41 ... 50 (10×) - 51 ... 60 (10×) - 61 ... 70 (10×) - 71 ... 80 (10×) - 81 ... 90 (10×) - 91 ... 100 (10×) • Custom inscription		8WH8 141-2A□□□ ▲▲▲ B05 B15 B25 B35 B45 B55 B65 B75 B85 C05		100	100 units	044
 8WH8 141-2XA05	Labels, flat, for terminal width 5.2 mm and terminal size 2.5 mm² (8WH3: 1.5 mm²), with vertical inscription						
			8WH8 141-2XA05		100	100 units	044
 8WH8 111-2AA05	Labels, flat, for terminal width 5.2 mm and terminal size 2.5 mm² (8WH3: 1.5 mm²), blank						
			8WH8 111-2AA05		100	100 units	044

* You can order this quantity or a multiple thereof.

iPo Installation Terminals

Accessories

Standard labeling system

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
12345678910 8WH8 120-3AB05	Labels, front, for terminal width 6.2 mm and terminal size 4 mm² (8WH3: 2.5 mm²), with horizontal inscription Versions • Consecutive numbering - 1 ... 10 (10×) - 11 ... 20 (10×) - 21 ... 30 (10×) - 31 ... 40 (10×) - 41 ... 50 (10×) - 51 ... 60 (10×) - 61 ... 70 (10×) - 71 ... 80 (10×) - 81 ... 90 (10×) - 91 ... 100 (10×) • L1/L2/L3/N/PE • U/V/W/N/grounding • Custom inscription		8WH8 120-3A□□□ ▲▲▲ B05 B15 B25 B35 B45 B55 B65 B75 B85 C05 A15 A25		100100 units	044	
L1L2L3NPEL1L2L3NPE 8WH8 120-3AA15							
UVWN⊥UVWN⊥ 8WH8 120-3AA25							
1 2 3 4 5 6 7 8 9 10 8WH8 140-3AB05	Labels, front, for terminal width 6.2 mm and terminal size 4 mm² (8WH3: 2.5 mm²), with vertical inscription Versions • Consecutive numbering - 1 ... 10 (10×) - 11 ... 20 (10×) - 21 ... 30 (10×) - 31 ... 40 (10×) - 41 ... 50 (10×) - 51 ... 60 (10×) - 61 ... 70 (10×) - 71 ... 80 (10×) - 81 ... 90 (10×) - 91 ... 100 (10×) • Custom inscription		8WH8 140-3A□□□ ▲▲▲ B05 B15 B25 B35 B45 B55 B65 B75 B85 C05		100100 units	044	
8WH8 110-3AA05	Labels, front, for terminal width 6.2 mm and terminal size 4 mm² (8WH3: 2.5 mm²), blank		8WH8 110-3AA05		100100 units	044	
12345678910 8WH8 121-3AB05	Labels, flat, for terminal width 6.2 mm and terminal size 4 mm² (8WH3: 2.5 mm²), with horizontal inscription Versions • Consecutive numbering - 1 ... 10 (10×) - 11 ... 20 (10×) - 21 ... 30 (10×) - 31 ... 40 (10×) - 41 ... 50 (10×) - 51 ... 60 (10×) - 61 ... 70 (10×) - 71 ... 80 (10×) - 81 ... 90 (10×) - 91 ... 100 (10×) • Custom inscription		8WH8 121-3A□□□ ▲▲▲ B05 B15 B25 B35 B45 B55 B65 B75 B85 C05		100100 units	044	
1 2 3 4 5 6 7 8 9 10 8WH8 141-3AB05	Labels, flat, for terminal width 6.2 mm and terminal size 4 mm² (8WH3: 2.5 mm²), with vertical inscription Versions • Consecutive numbering - 1 ... 10 (10×) • Custom inscription		8WH8 141-3AB05 8WH8 141-3XA05		100100 units	044	
8WH8 111-3AA05	Labels, flat, for terminal width 6.2 mm and terminal size 4 mm² (8WH3: 2.5 mm²), blank		8WH8 111-3AA05		100100 units	044	

iPo Installation Terminals

Accessories

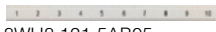
Standard labeling system

	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
 8WH8 120-4AB05	Labels, front, for terminal width 8.2 mm and terminal size 6 mm², with horizontal inscription						
	Versions • Consecutive numbering - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) - 31 ... 40 (10x) - 41 ... 50 (10x) - 51 ... 60 (10x) - 61 ... 70 (10x) - 71 ... 80 (10x) - 81 ... 90 (10x) - 91 ... 100 (10x) • L1/L2/L3/N/PE • Custom inscription		8WH8 120-4A□□□  B05 B15 B25 B35 B45 B55 B65 B75 B85 C05 A15		100	100 units	044
			8WH8 120-4XA05		100	100 units	044
 8WH8 140-4AB05	Labels, front, for terminal width 8.2 mm and terminal size 6 mm², with vertical inscription						
	Versions • Consecutive numbering - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) • Custom inscription		8WH8 140-4A□□□  B05 B15 B25		100	100 units	044
			8WH8 140-4XA05		100	100 units	044
 8WH8 110-4AA05	Labels, front, for terminal width 8.2 mm and terminal size 6 mm², blank		8WH8 110-4AA05		100	100 units	044
 8WH8 121-4AB05	Labels, flat, for terminal width 8.2 mm and terminal size 6 mm², with horizontal inscription						
	Versions • Consecutive numbering - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) • Custom inscription		8WH8 121-4A□□□  B05 B15 B25		100	100 units	044
			8WH8 121-4XA05		100	100 units	044
	Labels, flat, for terminal width 8.2 mm and terminal size 6 mm², with vertical inscription						
	Versions • Consecutive numbering - 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) • Custom inscription		8WH8 141-4A□□□  B05 B15 B25		100	100 units	044
			8WH8 141-4XA05		100	100 units	044
 8WH8 111-4AA05	Labels, flat, for terminal width 8.2 mm and terminal size 6 mm², blank		8WH8 111-4AA05		100	100 units	044

iPo Installation Terminals

Accessories

Standard labeling system

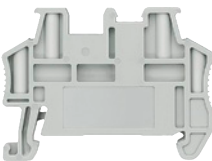
	Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/ P. unit	PG
 8WH8 120-5AB05	Labels, front, for terminal width 10 and 12 mm and terminal sizes 10 and 16 mm², with horizontal inscription						
	Versions						
	Consecutive numbering		8WH8 120-5A□□□□		100	100 units	044
	- 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) - 31 ... 40 (10x)		B05 B15 B25 B35				
 8WH8 120-5AA15	- L1/L2/L3/N/PE - U/V/W/N/grounding - Custom inscription		A15 A25		100	100 units	044
 8WH8 120-5AA25							
 8WH8 140-5AB05	Labels, front, for terminal width 10 and 12 mm and terminal sizes 10 and 16 mm², with vertical inscription						
	Versions						
	Consecutive numbering		8WH8 140-5A□□□□		100	100 units	044
	- 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x) - 31 ... 40 (10x)		B05 B15 B25 B35				
	Custom inscription		8WH8 140-5XA05		100	100 units	044
 8WH8 110-5AA05	Labels, front, for terminal width 10 and 12 mm and terminal sizes 10 and 16 mm², blank		8WH8 110-5AA05		100	100 units	044
 8WH8 121-5AB05	Labels, flat, for terminal width 10 and 12 mm and terminal sizes 10 and 16 mm², with horizontal inscription						
	Versions						
	Consecutive numbering		8WH8 121-5A□□□□		100	100 units	044
	- 1 ... 10 (10x) - 11 ... 20 (10x) - 21 ... 30 (10x)		B05 B15 B25				
	Custom inscription		8WH8 121-5XA05		100	100 units	044
 8WH8 141-5AB05	Labels, flat, for terminal width 10 and 12 mm and terminal sizes 10 and 16 mm², with vertical inscription						
	Versions						
	- Consecutive numbering - 1 ... 10 (10x)		8WH8 141-5AB05		100	100 units	044
	Custom inscription		8WH8 141-5XA05		100	100 units	044
 8WH8 111-5AA05	Labels, flat, for terminal width 10 and 12 mm and terminal sizes 10 and 16 mm², blank		8WH8 111-5AA05		100	100 units	044
 8WH8 120-7AA15	Labels, front, for terminal width 16 mm and terminal size 35 mm², with horizontal inscription						
	Versions						
	- L1/L2/L3/N/PE - Custom inscription		8WH8 120-7AA15		100	100 units	044
			8WH8 120-7XA05		100	100 units	044
	Labels, front, for terminal width 16 mm and terminal size 35 mm², with vertical custom inscription		8WH8 140-7XA05		100	100 units	044
 8WH8 110-7AA05	Labels, front, for terminal width 16 mm and terminal size 35 mm², blank		8WH8 110-7AA05		100	100 units	044
	Labels, flat, for terminal width 16 mm and terminal size 35 mm², blank		8WH8 111-7AA05		100	100 units	044

iPo Installation Terminals

Accessories

Mounting accessories

Selection and ordering data

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
 Lateral mounting test plugs For individual assembly of test plug connectors Versions • For terminal width 4.2 mm and terminal size 1.5 mm^{2 1)} • For terminal width 5.2 mm and terminal size 2.5 mm^{2 1)} • For terminal width 6.2 mm and terminal size 6 mm^{2 1)} ¹⁾ Except 8WH3		8WH9 010-0DB02		1	10 units	044
		8WH9 010-0EB02		1	10 units	044
		8WH9 010-0FB02		1	10 units	044
 Spacer plates For skipping single terminals for individual test adapter assembly Versions • For terminal width 4.2 mm and terminal size 1.5 mm^{2 1)} • For terminal width 5.2 mm and terminal size 2.5 mm^{2 1)} • For terminal width 6.2 mm and terminal size 6 mm^{2 1)} ¹⁾ Except 8WH3		8WH9 010-2AA02		1	10 units	044
		8WH9 010-2BA02		1	10 units	044
		8WH9 010-2CA02		1	10 units	044
 Terminal strip markers, for end retainers • Height-adjustable • For quick-fit end retainers • Inscription possible with terminal strip marker or two labels, front, for terminal width 10.2 mm • Labeling field size: 20 x 8 mm		8WH9 150-1CA00		1	100 units	044
 Test adapters • For 4 mm Ø PS test plugs and 4 mm Ø safety test plugs • Makes contact in the bridge slot		8WH9 010-0JB00		1	10 units	044
 Quick-fit end retainers For inscription with front labels, for terminal width 5.2 mm and terminal strip markers		8WH9 150-0CA00		1	50 units	044
 Screwdrivers For actuating the tension spring Versions • 0.4 x 2.5 mm • 0.6 x 3.5 mm • 0.8 x 4.0 mm • 1.0 x 5.5 mm		8WH9 200-0AA00		1	10 units	044
		8WH9 200-0AB00		1	10 units	044
		8WH9 200-0AC00		1	10 units	044
		8WH9 200-0AD00		1	10 units	044

iPo Installation Terminals

Accessories

Mounting accessories

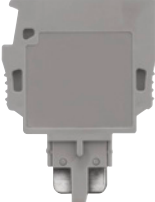
Version		DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Connecting combs							
 8WH9 020-6AC10	Versions	Max. load current I_{max}					
	- For terminal width 5,2 mm and terminal size 2.5 mm² (for 8WH3: 1.5 mm²) - 2-pole - 3-pole - 4-pole - 5-pole - 10-pole - 20-pole - 50-pole	24 A	8WH9 020-6BC10 8WH9 020-6BD10 8WH9 020-6BE10 8WH9 020-6BF10 8WH9 020-6BL10 8WH9 020-6BS10 8WH9 020-6BT10		1 50 units 044 1 50 units 044 1 50 units 044 1 50 units 044 1 10 units 044 1 10 units 044 1 10 units 044		
	- For terminal width 6,2 mm and terminal size 4 mm² (for 8WH3: 2.5 mm²) - 2-pole - 3-pole - 4-pole - 5-pole - 10-pole - 20-pole - 50-pole	32 A	8WH9 020-6CC10 8WH9 020-6CD10 8WH9 020-6CE10 8WH9 020-6CF10 8WH9 020-6CL10 8WH9 020-6CS10 8WH9 020-6CT10		1 50 units 044 1 50 units 044 1 50 units 044 1 50 units 044 1 10 units 044 1 10 units 044 1 10 units 044		
	- For terminal width 8,2 mm and terminal size 6 mm² - 2-pole - 3-pole - 4-pole - 5-pole - 10-pole	41 A	8WH9 020-6DC10 8WH9 020-6DD10 8WH9 020-6DE10 8WH9 020-6DF10 8WH9 020-6DL10		1 10 units 044 1 10 units 044 1 10 units 044 1 10 units 044 1 10 units 044		

* You can order this quantity or a multiple thereof.

iPo Installation Terminals

Accessories

Mounting accessories

Version	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS*/P. unit	PG
Plug-in zone connectors, for isolating terminals						
Versions						
 8WH9 040-0DB04	- Isolating plugs - Orange	8WH9 040-0DB04		1	50 units	044
 8WH9 020-8AB00	- Through-type connectors - Gray - $I_{\max}$: 16 A	8WH9 020-8AB00		1	50 units	044
 8WH9 040-3AB08	- Fused connectors - Black - $I_{\max}$: 6.3 A - For inscription with labels, flat, for terminal width 6.2 mm - G fuses 5 x 20 mm					
Versions						
	- With LED display for 12 to 30 V, 1 ... 2.5 mA	8WH9 040-3AB08		1	10 units	044
	- With LED display for 30 to 60 V, 0.8 ... 2.0 mA	8WH9 040-3BB08		1	10 units	044
	- With LED display for 110 to 250 V, 0.5 ... 2.5 mA	8WH9 040-3CB08		1	10 units	044
	- Without LED display	8WH9 040-3DB08		1	10 units	044
Note						
- The G fuse holders must be selected according to the maximum power loss (heat dissipation) of the G fuse links. Depending on the application and method of installation, the heating conditions in closed fuse holders must be tested. - Higher ambient temperatures represent an additional load for the fuse links. Hence in such cases of application it is necessary to allow in addition for adjustment of the rated current.						
 8WH9 040-0BB00	- Component connectors - $I_{\max}$: 6 A, depending on the power loss of the components, max. 1 W for stand-alone arrangement - For inscription with labels, flat, for terminal width 5.2 mm	8WH9 040-0BB00		1	10 units	044
Feeder terminals, for N-busbars						
6 x 6 mm and 10 x 3 mm - Bare						
Versions						
 8WA2 867/8WA2 868/ 8WA2 870	- Rated uninterrupted current 32 A, for connection of up to 4 mm² - Rated uninterrupted current 76 A, for connection of up to 25 mm² - Rated uninterrupted current 125 A, for connection of up to 35 mm²	8WA2 867 8WA2 868 8WA2 870		1	50 units	041
				1	50 units	041
				1	50 units	041
 8WA2 842	N-busbar, 10 mm x 3 mm - Made of copper, tin-plated 1,000 mm long	8WA2 842		1	1 unit	041

Appendix



20/2	Catalog notes
20/3	Ordering notes
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20/6	ATEX explosion protection
20/7	Further documentation
20/8	Quality management
20/9	Standards and approvals
20/15	Siemens contacts
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20/32	Conditions of sale and delivery

Catalog notes

Overview**Trademarks**

All product designations may be registered trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes may violate the rights of the owner.

Amendments

All technical data, dimensions and weights are subject to change without notice unless otherwise specified on the pages of this catalog.

Dimensions

All dimensions are in mm.

Images

The illustrations are not binding.

Technical data

The technical data in the catalog are for general information. The instruction manuals and the operating instructions on the products must be observed during assembly, operation and maintenance.

Further technical information is available at www.siemens.com/lowvoltage/support

- under Product List:
 - Technical specifications
- under Entry List:
 - Updates
 - Downloads
 - FAQ
 - Manuals
 - Operating instructions
 - Characteristic curves
 - Certificates

Configurators can be found at www.siemens.com/lowvoltage/configurators

Assembly, operation and maintenance

The instruction manuals and the operating instructions on the products must be observed during assembly, operation and maintenance.

Logistics

General

With regard to delivery service, communications and environmental protection, our logistics service ensures "quality from the moment of ordering right through to delivery". By designing our infrastructure according to customer requirements and implementing electronic order processing, we have successfully optimized our logistics processes.

We are proud of our personal consulting service, on-time deliveries and 1-day transport within Germany.

To this end, we supply the preferred types marked with ► ex works.

We regard the ISO 9001 certification and consistent quality checks as an integral part of our services.

Electronic order processing is fast, cost-efficient and error-free. Please contact us if you want to benefit from these advantages.

Packaging, packing units

The packaging in which our equipment is dispatched provides protection against dust and mechanical damage during transport, thus ensuring that all our products arrive in perfect condition.

We select our packaging for maximum environmental compatibility and reusability (e. g. crumpled paper instead of polystyrene chips for protection during transport in packages up to 32 kg) and, in particular, with a view to reducing waste.

With our multi-unit packaging and reusable packaging, we offer you specific types of packaging that are both kind to the environment and tailored to your requirements:

Your advantages at a glance:

- Lower order costs.
- Cost savings through uniform-type packaging: low/no disposal costs.
- Reduced time and cost thanks to short unpacking times.
- "Just-in-time" delivery directly to the production line helps reduce stock: cost savings through reduction of storage area.
- Fast assembly thanks to supply in sets.
- Standard Euro boxes - corresponding to the Euro pallet modular system - suitable for most conveyor systems.
- Active contribution to environmental protection.

Unless stated otherwise in the "Selection and ordering data" of this catalog, our products are supplied individually packed.

For small parts/accessories, we offer you economical packaging units as standard packs containing more than one item, e. g. 5, 10, 50 or 100 units. It is essential that whole number multiples of these quantities be ordered to ensure satisfactory quality of the products and problem-free order processing.

The products are delivered in a neutral carton. The label includes warning notices, the CE mark, the open arrow recycling symbol, and product description information in English and German. In addition to the Order No. (MLFB) and the number of items in the packaging, the Instr. Order No. is also specified for the operating instructions. It can be obtained from your local Siemens representative (you will find a list of your local Siemens representatives at www.siemens.com/automation/partner).

The device Order No. of most devices can also be acquired through the EAN barcode to simplify ordering and storage logistics.

The Order Nos. and EAN codes are assigned electronically in the master data of the products for low-voltage power distribution and electrical installation.

Ordering notes

Overview

Ordering special versions

When ordering products that differ from the standard versions listed in the catalog, "-Z" must be added to the Order No. indicated and the required features must be specified using alpha-numeric order codes or plain text.

Ordering very small quantities

When small orders are placed, the costs associated with order processing are greater than the order value. We therefore recommend that you combine several small orders. Where this is not possible, we regret that we are obliged to make a small processing charge: for orders with a net goods value of less than € 250 we charge an € 20 supplement to cover our order processing and invoicing costs.

Explanations on the Selection and Ordering Data

Delivery time class (DT)

DT	Meaning
▶	Preferred type
A	Two workdays
B	One week
C	Three weeks
D	Six weeks
X	On request

Preferred types are device types that can be delivered immediately ex works, i. e. they are dispatched within 24 hours.

If ordered in normal quantities, the products are usually delivered within the specified delivery times, calculated from the date we receive your order.

In exceptional cases, delivery times may vary from those specified.

The delivery times are valid ex works from Siemens AG (products ready for dispatch).

Shipping times depend on the destination and the method of shipping. The standard shipping time for Germany is one day.

The specified delivery times are correct at the time of going to print and are subject to constant optimization. Up-to-date information can be found at www.siemens.com/industrymail.

Price units (PU)

The price unit defines the number of units, sets or meters to which the specified price and weight apply.

PS/P. unit (packaging size/packaging unit)

The packaging size / packaging unit defines the number, e. g. of units, sets or meters, for outer packaging.

- The **first digit** in the PS/P. unit column (packaging size/packaging unit) indicates the minimum order quantity. You can only order this specified quantity or a multiple thereof.
- The **second digit** in the PS/P. unit column (packaging size/packaging unit) specifies the number of units contained in larger packaging (e. g. in a carton). You must order this quantity or a multiple thereof if you want the item to be delivered in a larger packaging quantity.

Examples:

PS/P. unit	Meaning
1 unit	You can order one item or a multiple thereof.
5 units	For example, five units are packed in a bag. Because the bags cannot be opened, you can only order a multiple of the quantity contained in the bag: 5, 10, 15, 20 etc.
5/100 units	One carton contains (for example) 20 bags, each containing 5 units, i. e. a total of 100 units. If only cartons are available for delivery, you need to order a multiple of the carton quantity: 100, 200, 300, etc. Ordering a quantity of 220 units, would result in the following delivery: two cartons, each containing 100 units (= 200 units) and 4 bags, each containing 5 units (= 20 units).
1 set	A set comprises a defined number of different parts.

Price groups (PG)

Each product is allocated to a price group.

Weight

The defined weight is the net weight in kg and refers to the price unit (PU).

Examples

DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS/ P. unit	PG	DT	Order No.	Price per PU	PU (UNIT, SET, M)	PS/ P. unit	PG
▶	8PQ4 000-1BA13		1	1/10 units	155	▶	8GB4 378		1	1 set*	032
DT:	Preferred type					DT:	Preferred type				
PU:	One unit (on which price is based)					PU:	One set* (on which price is based)				
PS/P. unit:	1 = minimum order quantity / 10 = quantity per carton					PS/P. unit:	The minimum order quantity is one set*				
PG:	155					PG:	032				
						* The selection and ordering data specify the parts that make up a set.					

Low-voltage power distribution and electrical installations technology. The secrets of UL. You have our support.

Our products for low-voltage power distribution and electrical installation are designed not only for the IEC market. Numerous devices have both UL and IEC approval. This makes it easier for manufacturers of switchgear and controlgear assemblies to enter the North American market.

Exports to North America require special approvals which differ from the IEC directives. On the IEC market, directives define only the essential functions of a system. The technical details are not listed. By contrast, directives on the American market go into the details of how to carry out the installation work etc.

For OEMs and machine manufacturers it is important to know the main differences between the two technical worlds and to work together respectively with manufacturers and suppliers who have the right products and know-how.

Siemens is a strong partner in this case. Our know-how extends from the production of UL-approved devices to the wiring of control cabinets according to UL regulations.

These UL requirements are already taken into account when designing our devices for low-voltage power distribution and electrical installation. They are developed not only for the IEC market but also for the UL market.

We have been working with UL (Underwriters Laboratories Inc.®), the leading technical certification company in the USA, since 1969. We are also glad to share our knowledge with you in the form of training courses.

With our UL-certified products for low-voltage power distribution and electrical installation you are on the safe side and can build control cabinets according to UL standard easily and quickly.

This catalog contains UL-certified devices and systems from the SENTRON and ALPHA product families.



In addition to looking in this catalog you should also check out our Catalog LV 16 "Switching Devices and Components for Applications according to UL" for UL-specific products:

- SIRIUS 3RV17 and 3RV18 Circuit Breakers
- SENTRON protection, switching, measuring and monitoring devices
- ALPHA 8HP molded-plastic distribution systems
- ALPHA FIX Terminal Blocks

Take a look at our range of products and convince yourself. Or simply click on

www.siemens.com/lowvoltage/ul-europa

Here, you will find information on for example UL standards, UL classification and a number of technical particularities of UL.

Under "UL Overview/Standards and Approvals" we provide a summary of the available products and product groups. A table lists the UL standards to which the products conform and contains links to the corresponding UL reports.

Under "Portfolio" we round off with a list of our most relevant products for low-voltage power distribution and electrical installation as well as for low-voltage controls (including links to the respective Internet product pages).

Simply click on the navigation bar and go on a UL discovery tour!

ATEX explosion protection

Overview

In many industries the production, processing, transport and storage of combustible substances are accompanied by escaping gases, vapor or spray which find their way into the environment. Other processes result in combustible dust. Together with the oxygen in the air, the result can be an explosive atmosphere which will explode if ignited.

Serious injury to persons and damage to property can result particularly in the chemical and petrochemical industry, mineral oil and natural gas production, mining, mills (e. g. grain, solid materials) and many other sectors.

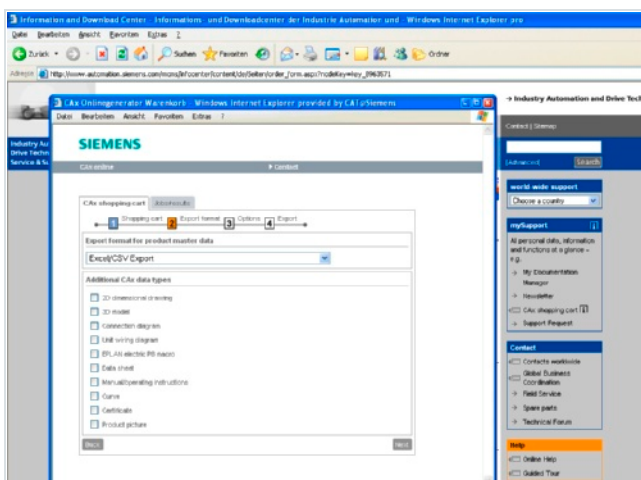
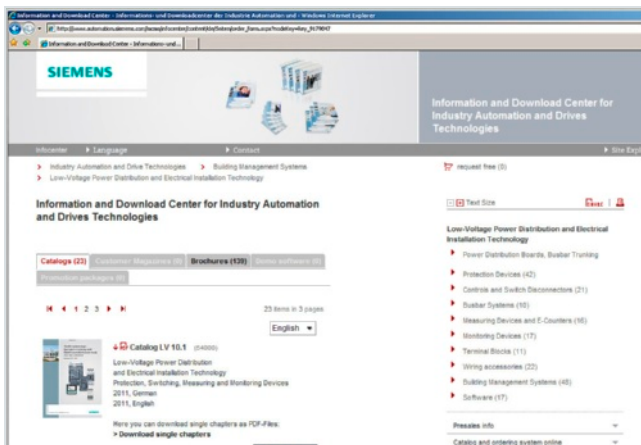
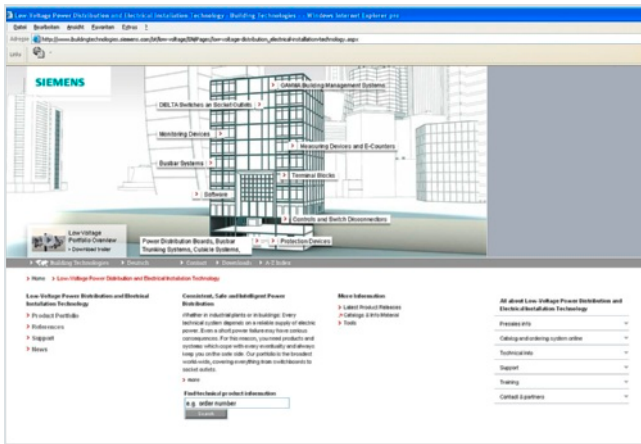
To guarantee the maximum possible safety in these areas, the legislators of most countries have drawn up requirements in the form of laws, regulations and standards. In the course of globalization, great progress has been made with regard to uniform directives for explosion protection.

With Directive 94/9/EC, the European Union laid the foundations for complete harmonization by requiring that all new devices as from 1st July 2003 have to be approved in accordance with this directive.

In this catalog, special attention is drawn to devices which comply with the ATEX Directive. However, it does not replace intensive study of the relevant fundamentals and directives when planning and installing electrical systems.



Overview



We regard product support as just as important as the products and systems themselves.

Visit our site on the Internet for a comprehensive offering of support for low-voltage power distribution and electrical installation products, such as

- Operating instructions and manuals for direct download
- Online registration for seminars and events
- Up-to-date answers to your queries and problems
- Software upgrades and updates for fast download
- Telephone assistance in more than 190 countries
- Photos and graphics for external use

and much more - all conveniently and easily accessible.

Address:

www.siemens.com/lowvoltage

You will find regularly updated information material such as catalogues, customer magazines, brochures and trial versions of software for low-voltage power distribution and electrical installation on the Internet at:

www.siemens.com/lowvoltage/infomaterial

Here, you can order your copy of the available documentation or download it in common file formats (PDF, ZIP).

For your configuration systems we can provide technical and graphic data in electronic form for the range of low-voltage power distribution and electrical installation products:

CAx online generator

For the further processing of low-voltage power distribution and electrical installation products in CAE/CAD systems the online generator provides:

- Technical product master data in CSV and Excel format
- Graphic product data
 - 2D dimensional drawings in DXF format (other formats optional)
 - 3D models in STEP format
 - Internal circuit diagrams
 - EPLAN electric P 8 macros
- Documentation in the form of PDF files
 - Product data sheets
 - Manuals
 - Operating instructions
 - Characteristic curves
 - Certificates
- Product photos
- Texts for tenders in GAEB and Text format.

www.siemens.com/cax

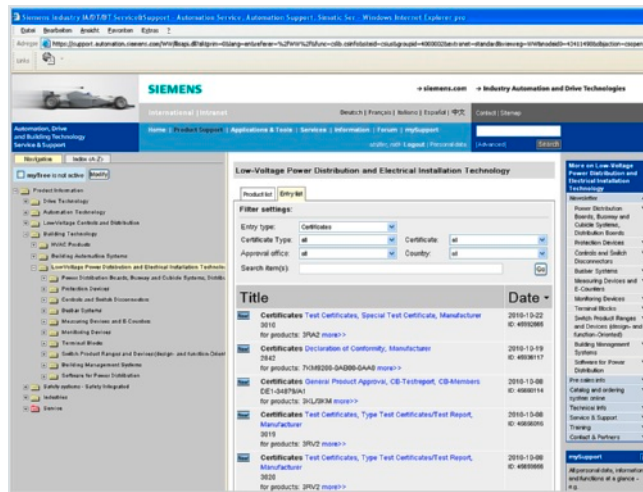
Overview

The products and systems listed in this catalog are marketed using a VDE-approved quality management system according to ISO 9001.

Siemens AG
Infrastructure & Cities Sector
Low and Medium Voltage Division
Low Voltage
Reg. No.: 40017/QM/03.06

Information on the certificates available (CE, UL, CSA, FM, shipping authorizations) for low-voltage power distribution and electrical installation products can be found on the Internet at:

In the Entry List you can use the certificate type (general product approval, explosion protection, test certificates, shipbuilding,...) as a filter criterion.

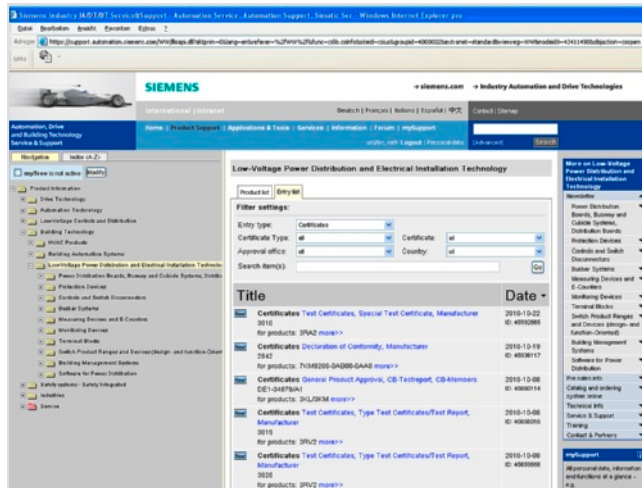


Overview

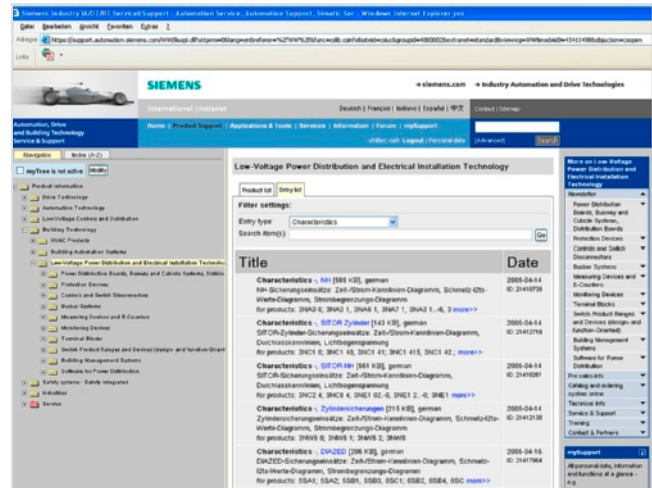
Approvals, test certificates, characteristic curves

An overview of the certificates available for low-voltage power distribution and electrical installation products along with more technical documentation can be consulted daily on the Internet at:

www.siemens.com/lowvoltage/support



Product support: Approvals / Certificates



Product support: Characteristic curves

Product standards (excerpt)

IEC	EN	DIN VDE	Title
60044-1	60044-1	--	Instrument Transformers - Part 1: Current Transformers
60050-441	--	--	International Electrotechnical Vocabulary. Switchgear, controlgear and fuses
60076-11	60076-11	--	Power transformers - Part 11: Dry-type transformers
60079-14	60079-14	--	Explosive atmospheres - Part 14: Electrical installations design, selection and erection
60079-2	60079-2	--	Explosive atmospheres - Part 2: Equipment protection by pressurized enclosures 'p'
60204-1	60204-1	--	Safety of machinery - Electrical equipment of machines - Part 1: General requirements
60269-1	60269-1	--	Low-voltage fuses
60269-4	60269-4	--	• Part 1: General requirements • Part 4: Supplementary requirements for fuse-links for the protection of semiconductor devices
60439-1	60439-1	--	Low-voltage switchgear and controlgear assemblies
60439-3	60439-3	--	• Part 1: Type-tested and partially type-tested assemblies • Part 3: Particular requirements for low-voltage switchgear and controlgear assemblies intended to be installed in places where unskilled persons have access for their use - Distribution boards
60664-1	60664-1	--	Insulation coordination for equipment within low-voltage systems - Part 1: Principles, requirements and tests
60947-1	60947-1	--	Low-voltage switchgear and controlgear
60947-2	60947-2	--	• Part 1: General rules
60947-3	60947-3	--	• Part 2: Circuit-breakers • Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units
60947-4-1	60947-4-1	--	• Part 4-1: Contactors and motor-starters - Electromechanical contactors and motor-starters
60947-4-2	60947-4-2	--	• Part 4-2: Contactors and motor-starters - AC semiconductor motor controllers and starters
60947-4-3	60947-4-3	--	• Part 4-3: Contactors and motor-starters - AC semiconductor controllers and contactors for non-motor loads
60947-5-1	60947-5-1	--	• Part 5-1: Control circuit devices and switching elements - Electromechanical control circuit devices
60947-5-2	60947-5-2	--	• Part 5-2: Control circuit devices and switching elements - Proximity switches
60947-5-3	60947-5-3	--	• Part 5-3: Control circuit devices and switching elements - Requirements for proximity devices with defined behaviour under fault conditions
60947-5-5	60947-5-5	--	• Part 5-5: Control circuit devices and switching elements - Electrical emergency stop device with mechanical latching function
60947-5-6	60947-5-6	--	• Part 5-6: Control circuit devices and switching elements - DC interface for proximity sensors and switching amplifiers (NAMUR)
60947-5-7	60947-5-7	--	• Part 5-7: Control circuit devices and switching elements - Requirements for proximity devices with analogue output
60947-5-8	60947-5-8	--	• Part 5-8: Control circuit devices and switching elements - Three-position enabling switches
60947-5-9	60947-5-9	--	• Part 5-9: Control circuit devices and switching elements - Flow rate switches
60947-6-1	60947-6-1	--	• Part 6-1: Multiple function equipment - Transfer switching equipment
60947-6-2	60947-6-2	--	• Part 6-2: Multiple function equipment - Control and protective switching devices (or equipment) (CPS)
60947-7-1	60947-7-1	--	• Part 7-1: Ancillary equipment - Terminal blocks for copper conductors
60947-7-2	60947-7-2	--	• Part 7-2: Ancillary equipment - Protective conductor terminal blocks for copper conductors
60947-7-3	60947-7-3	--	• Part 7-3: Ancillary equipment - Safety requirements for fuse terminal blocks
60947-8	60947-8	--	• Part 8: Control units for built-in thermal protection (PTC) for rotating electrical machines
60999-1	60999-1	--	Connecting devices - Electrical copper conductors - Safety requirements for screw-type and screwless-type clamping units - Part 1: General requirements and particular requirements for clamping units for conductors from 0.2 mm ² up to 35 mm ² (included)

Standards and approvals

IEC	EN	DIN VDE	Title
61000-4-1 61000-6-3 61000-6-4	61000-4-1 61000-6-3 61000-6-4	--	Electromagnetic compatibility (EMC) • Part 4-1: Testing and measurement techniques - Overview of IEC 61000-4 series • Part 6-3: Generic standards - Emission standard for residential, commercial and light-industrial environments • Part 6-4: Generic standards - Emission standard for industrial environments
61140	61140	--	Protection against electric shock - Common aspects for installation and equipment
61439-1 61439-2	61439-1 61439-2	0660-600-1 0660-600-2	Low-voltage switchgear and controlgear assemblies • Part 1: General rules • Part 2: Power switchgear and controlgear assemblies
61558-1	61558-1	0570-1 ¹⁾	Safety of power transformers, power supplies, reactors and similar products • Part 1: General requirements and tests
61558-2-1	61558-2-1	0570-2-1 ¹⁾	• Part 2-1: Particular requirements and tests for separating transformers and power supplies incorporating separating transformers for general applications
61558-2-2	61558-2-2	0570-2-2 ¹⁾	• Part 2-2: Particular requirements and tests for control transformers and power supplies incorporating control transformers
61558-2-4	61558-2-4	0570-2-4 ¹⁾	• Part 2-4: Particular requirements and tests for isolating transformers and power supply units incorporating isolating transformers
61558-2-6	61558-2-6	0570-2-6 ¹⁾	• Part 2-6: Particular requirements and tests for safety isolating transformers and power supply units incorporating safety isolating transformers
61558-2-9	61558-2-9	0570-2-9 ¹⁾	• Part 2-9: Particular requirements and tests for transformers and power supply units for class III handlamps for tungsten filament lamps
61558-2-12	61558-2-12	0570-2-12 ¹⁾	• Part 2-12: Particular requirements and tests for constant voltage transformers and power supply units for constant voltage
61558-2-13	61558-2-13	0570-2-13 ¹⁾	• Part 2-13: Particular requirements and tests for auto transformers and power supply units incorporating auto transformers
61558-2-15 61558-2-20	61558-2-15 61558-2-20	0570-2-15 ¹⁾ 0570-2-20 ¹⁾	• Part 2-15: Particular requirements and tests for isolating transformers for the supply of medical locations • Part 2-20: Particular requirements and tests for small reactors
61641	--	--	Enclosed low-voltage switchgear and controlgear assemblies - Guide for testing under conditions of arcing due to internal fault
61810-1 61812-1	61810-1 61812-1	--	Electromechanical elementary relays - Part 1: General requirements Time relays for industrial and residential use - Part 1: Requirements and tests
62026-2	50295	--	Low-voltage switchgear and controlgear - Controller-device interfaces (CDIs) - Part 2: Actuator sensor interface (AS-I)
62041	62041	0570-10 ¹⁾	Safety of transformers, reactors, power supply units and combinations thereof - EMC requirements
--	50178	--	Equipment of electrical power installations with electronic equipment
--	50274	--	Low-voltage switchgear assemblies - Protection from electric shock - Protection from accidental touching of dangerous active parts
--	--	0552	Standards for variable-ratio transformers with moving contacts perpendicular to the coiling direction

¹⁾ VDE classification.

UL	CSA C22.2	ASME	JIS	Title
506	--	--	--	Specialty transformers
508	--	--	--	Industrial control equipment
489	--	--	--	Molded case circuit breakers, molded case switches and circuit breaker enclosures
1012	--	--	--	Power units other than CLASS 2
1561	--	--	--	Dry-type general purpose and power transformers
5085	--	--	--	Low-voltage transformers
60601-1	--	--	--	Medical electrical equipment, Part 1: General requirements for safety (IEC 60601, EN 60601, VDE 0750-1)
1604	--	--	--	Electrical equipment for use in CLASS I and II, Division 2 and CLASS III hazardous (Classified) locations
1059	--	--	--	Terminal blocks
486A-486B	--	--	--	Wire connectors
486E	--	--	--	Equipment wiring terminals for use with aluminum and/or copper conductors
50	--	--	--	Enclosures for electrical equipment. Non-environmental considerations
--	No. 66	--	--	Specialty transformers
--	No. 14	--	--	Industrial control equipment
--	No. 5	--	--	Molded case circuit breakers, molded case switches and circuit breaker enclosures
--	No. 107-1	--	--	General use power supplies
--	--	A17.5 / B 44.1	--	Elevator and escalator electrical equipment
--	--	--	C 8201-4-1	Low-voltage switchgear and controlgear; Contactors and motor-starters

Approval requirements valid in different countries

Siemens low-voltage switchgear and controlgear are designed, manufactured and tested according to the relevant German standards (DIN and VDE), IEC publications and European standards (EN) as well as CSA and UL standards. The standards assigned to the single devices are stated in the relevant parts of this catalog.

As far as is economically viable, in addition to the pertinent VDE, EN and IEC standards, the requirements of the various regulations valid in other countries are also taken into account in the design of the equipment.

In some countries (see table below), an approval is required for certain low-voltage switchgear and controlgear components. Depending on the market requirements, these devices have been submitted for approval to the authorized testing institutes.

In some cases, CSA for Canada and UL for the USA only approve special switchgear versions. Such special versions are listed separately from the standard versions in the individual parts of this catalog.

For this equipment, partial limitations of the maximum permissible voltages, currents and rated outputs can be imposed, or special approval and, in some cases, special identification is required.

For use on board ship, the specifications of the marine classification societies must be observed (see table below). In some cases, they require type tests of the components to be approved.

[The present state of approval is shown in the "Type overview of approved devices" tables on page 20/12.](#)

Standards and approvals

Testing bodies, approval identification and approval requirements

	Canada ¹⁾	USA ¹⁾	China
Government-appointed or private, officially recognized testing bodies	CSA UL (USA)	UL	CQC
Approval symbol			
Approval requirements	+	+	+
Remarks	UL and CSA are authorized to grant approvals according to Canadian or US regulations. Please note: These approvals are frequently not recognized and additional approval often has to be obtained from the national testing authority.		CCC

For more information about UL and CSA see 20/11.

¹⁾ For guide numbers and file numbers for the approvals, visit our website at www.siemens.com/lowvoltage/support

Marine classification societies

	Germany	United Kingdom	France	Norway	CIS	Italy	Poland	USA
Name	Germanischer Lloyd	Lloyds Register of Shipping	Bureau Veritas	Det Norske Veritas	Russian Maritime Register of Shipping	Registro Italiano Navale	Polski Rejestr Statków	American Bureau of Shipping
Codes	GL	LRS	BV	DNV	RMRS	RINA	PRS	ABS

CE marking

Manufacturers of products which fall within the scope of EC directives must identify their products, operating instructions or packaging with a CE mark.

The CE mark confirms that a product fulfills the appropriate basic requirements of all pertinent directives. The mark is a mandatory requirement for putting products into circulation throughout the EC.

All the products in this catalog are in conformance with the EC directives and bear the CE mark.

- Low-voltage directive
- EMC directive
- Machinery directive
- Ex protection directive

The CE mark of conformity: .

Accident prevention

Test certificates and approvals from the BIA (German statutory industrial accident insurance institution in Bonn) and from SUVA (Swiss institute for accident prevention) are available for some devices in safety control systems. For details, see the respective product descriptions.

Special standards, for example the USA and Canada

In the USA and Canada, for machine tools and processing machines in particular, supply lines are laid using rubber insulated cable enclosed in heavy-duty steel piping similar to that used for gas or water pipe systems.

The tubing system must be completely watertight and electrically conductive (especially sleeving and elbows). Since the tubing system can also be grounded, the cable entries of enclosed units equipped with heavy-gauge or metric threads must be fitted with metal adapters between these threads and the tube thread. The necessary adapters are specified for the switchgear as accessories; they should be ordered separately unless otherwise specified.

Low-voltage switchgear and controlgear for auxiliary circuits (e.g. contactor relays, commanding and signaling devices and auxiliary switches/auxiliary contacts in general) are generally only approved by CSA and UL for **"Heavy Duty"** or **"Standard Duty"** and are identified either with these specifications in addition to the maximum permissible voltage or by using an abbreviation.

The abbreviations are harmonized with IEC 60947-5-1 Appendix 1 Table A.1 and correspond to the stated utilization categories.

For various switching devices detailed in the catalog, a note has been included to the effect that, above a certain voltage, the auxiliary switches/auxiliary contacts can only be used if they have the same polarity. This means that the input terminals can only be connected to the same pole of the control voltage, e. g. "600 V AC above 300 V AC same polarity".

Standards and approvals

Different features of UL approvals (for USA and Canada)

Recognized Component	Listed Product
Devices are identified on the rating plate using the "UL recognition mark": USA:  c  US Canada: c   US	Devices are identified using the "UL listing mark" on the rating plate e. g. USA:  LISTED 165 C Canada: c  LISTED 165 C IND. CONT. EQ. IND. CONT. EQ. (165 C stands for: Siemens, I IA CD Division, Amberg plant)
Devices are approved as modules for "factory wiring", i. e.: as devices for installation in control systems, which are selected, installed, wired and tested entirely by trained personnel in factories, workshops or elsewhere, according to the operating conditions .	Devices are approved for "field wiring", i. e.: - As devices for installation in control systems, which are completely wired by trained personnel in factories, workshops or elsewhere. - As single devices for sale in retail outlets in the USA/Canada.
If devices are  or c  approved as "listed products", they are also approved as  or c  "recognized components".	

For more information about UL and CSA see 20/10.

Special standards, for example Russia, Australia and China

GOST approval for Russia



A GOST approval is required for all products that are to be sold in Russia. The GOST mark has been obligatory on the packaging of all devices since mid-1998.

All devices delivered to any part of the Russian Federation must have this customs certification.

CCC approval



Since August 1, 2003, CCC approval is required for many products that are marketed in China.

C-Tick approval for Australia



The C-Tick approval is required for marketing Siemens devices in Australia. Electronic devices must provide proof of EMC clearance in Australia, similar to the CE mark of conformity laid down by the EMC directive applicable in the EC and bear the "C-Tick" mark. These requirements have been in force since October 1st, 1999.

Type overview of approved devices

Chapter 18 · ALPHA 8HP Molded-Plastic Distribution Systems

Type	Approvals							Marine classifications								
	Canada 1) 2)		USA 1)			China	Russia	Germany	United Kingdom	France	Norway	CIS	Italy	Poland	USA	
	CC	C	UL	UL	US	UL	CCC	GOST	GL	LRS	BV	DNV	RMRS	RINA	PRS	ABS
Distribution systems																
8HP20	--	--	+	--	--	--	+	--	--	--	--	--	--	--	--	--

Distribution systems

8HP20

- + Standard version approved.
-- Not yet submitted for approval.

Further certifications and approvals available on request.

1) For guide numbers and file numbers for approvals, please visit www.siemens.com/lowvoltage/support and select "Product Support".

2) c  and c  approvals are available in accordance with US approval.

Chapter 19 · 8WH6 iPo installation terminals

Type	Approvals								Marine classifications							
	Canada	USA							Germany	United Kingdom	France	Norway	CIS	Italy	Poland	USA
		c  US		c  US		CCC	EZU	SKTC	SEP	MEEI	GL	LRS	BV	DNV	RMRS	ABS

Terminal blocks

8WH

www.siemens.com/lowvoltage/support

Standards and approvals

Special standards in different countries

Argentina

In Argentina, the approval requirements are based on Resolution 92/98. Since April 1st, 2001, circuit breakers and RCCBs require approval.

Since April 1st, 2002, protective switches up to $I_n = 63$ A and $U_{max} = 440$ V require approval and must bear a mark of conformity.

CCC approval for China**A003617**

Since August 1, 2003, CCC approval is required for all products that are marketed in China.

Romania

In Romania, components which are used in public buildings must be approved by the Romanian testing authority ICECON.

GOST approval for Russia

A GOST approval is required for all products that are to be sold in Russia. The GOST mark has been obligatory on the packaging of all devices since mid-1998.

All devices delivered to any part of the Russian Federation must have this customs certification.

South Africa

In South Africa there are approval requirements for circuit breakers and busbar trunking systems. Such equipment must bear a conformity mark.

Country-specific approvals

	Canada	USA	Romania	Russia ¹⁾ , CIS	Turkey	Ukraine	China	South Africa
	CSA	UL	ICECON	GOST-R	TSE	Ukraine-GOST	CCC	SABS
Busbar trunking systems								
CD-K system	--	--	--	+	--	+	On request	--
BD01 system	--	--	--	+	--	+	On request	--
BD2 system	--	--	--	+	--	+	On request	--
LD system	--	--	--	+	--	+	+	--
LX system	--	--	--	+	--	+	--	--
LR system	--	--	--	+	--	+	--	--

+ = certified or licensed

¹⁾ In Russia, the BD2, LD and LX systems also passed the fire barrier test (Poshtest).

Approvals issued by marine classification societies

	Germany	France	United Kingdom	Italy	Norway	Poland	Russia, CIS	USA
	Germanischer Lloyd	Bureau Veritas	Lloyds Register of Shipping	Registro Italiano Navale	Det Norske Veritas	Polski Rejestr Statków	Russian Maritime Register of Shipping	American Bureau of Shipping
	GL	BV	LRS	RINA	DNV	PRS	RMRS	ABS
Busbar trunking systems								
CD-K system	--	--	--	--	On request	--	--	--
BD01 system	--	+	+	--	+	--	--	--
BD2 system	--	+	+	--	+	--	--	--
LD system	--	+	+	--	+	--	--	--
LX system	--	--	--	--	--	--	--	--
LR system	--	--	--	--	--	--	--	--

+ = certified or licensed

More information

You can find more information about standards and approvals at www.siemens.com/lowvoltage/support

If you have any questions concerning UL/CSA approvals, contact Technical Support, Tel.: +49 (911) 8957222.

Standards and approvals

ALPHA distribution boards

Our ALPHA distribution boards and components are series produced. Regular type tests and routine tests, by both internal and external testing laboratories, ensure uniform quality and the highest technical standards. Our product spectrum ranges from small distribution boards with max. 63 A through to distribution boards with max. 1,250 A busbar load capacity.

The ALPHA distribution boards comply with standards EN 60439-1 (VDE 0660-500) and EN 60439-3 (VDE 0660-504). Our distribution boards are also tested according to the new standard IEC 61439-1 and -2 and certified accordingly with type verification.



You can find more information about approvals and certificates at www.siemens.com/lowvoltage/support

	VDE	EN	DIN	IEC
ALPHA distribution boards				
ALPHA 160 ¹⁾	DIN VDE 0660-500/504	EN 60439-1/-3	--	IEC 60439-1/-3
ALPHA 400	DIN VDE 0660-500/504	EN 61439-1/-2	--	IEC 61439-1/-2
ALPHA 630	DIN VDE 0660-500/504	EN 61439-1/-2	--	IEC 61439-1/-2
ALPHA small distribution boards				
SIMBOX XL flush-mounting and hollow-wall distribution boards	DIN VDE 0603-1	--	--	--
SIMBOX XL surface-mounting distribution boards IP30	DIN VDE 0603-1	--	--	--
SIMBOX WP surface-mounting distribution boards IP65	--	EN 60439-1/-3	--	IEC 60439-1/-3
ALPHA 8HP molded-plastic distribution systems				
ALPHA 8HP molded-plastic distribution systems	DIN VDE 0660-500	EN 60439-1	--	IEC 60439-1
ALPHA modular distribution boards				
ALPHA AS modular distribution boards	DIN VDE 0660-500/504	TSK certificate according to EN 60439-1/-3	--	Type verification according to IEC 61439-1/-2

¹⁾ EN 60439-3 only applies to modular installation devices acc. to EN 43880.

Contact partners at Siemens Industry



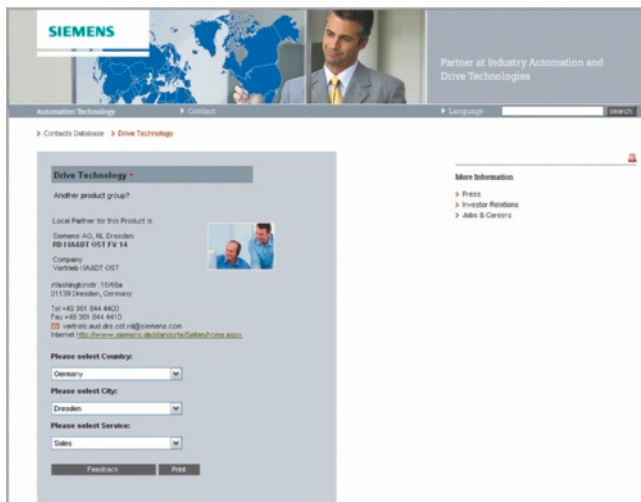
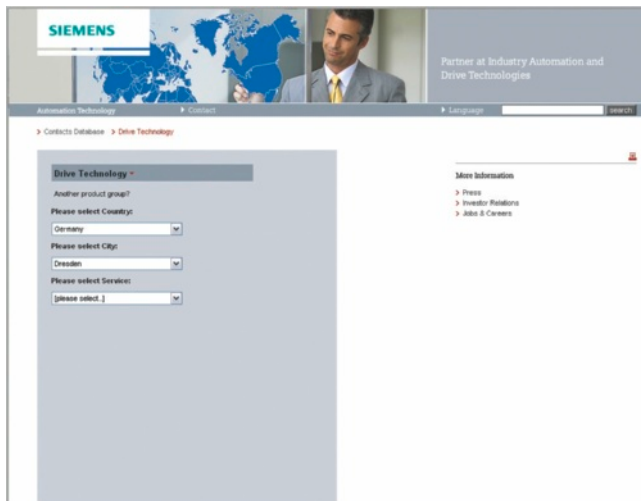
At Siemens Industry, more than 85 000 people are resolutely pursuing the same goal: long-term improvement of your competitive ability. We are committed to this goal. Thanks to our commitment, we continue to set new standards. In all industries – worldwide.

At your service locally, around the globe for consulting, sales, training, service, support, spare parts ... on the entire Siemens Industry range.

Your personal contact can be found in our Contacts Database at: www.siemens.com/automation/partner

You start by selecting a

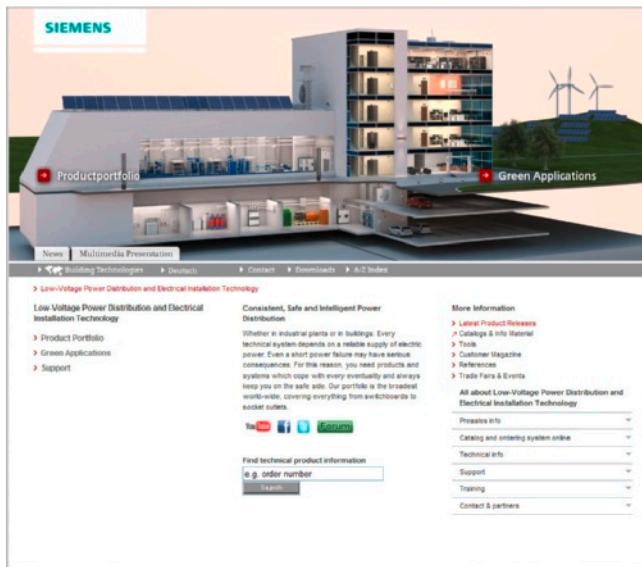
- Product group,
- Country,
- City,
- Service.



Appendix Online Services

Information and Ordering
in the Internet and on DVD

Low-Voltage Power Distribution and Electrical Installation Technology on the WWW

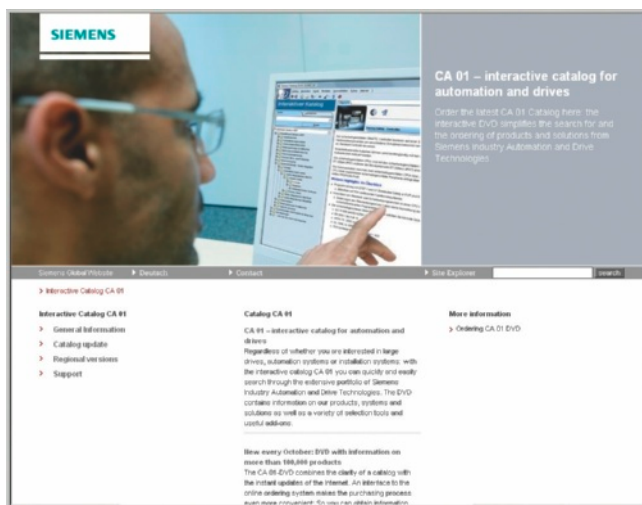


Siemens low-voltage power distribution and electrical installation technology offers switchboards, busbar trunking systems, distribution boards as well as protection, switching, measuring and monitoring devices, building management systems, switches and socket outlets. The consistency, modularity and intelligence of our components and systems offer you numerous advantages – throughout their service life and wherever you are in the world. We deliver trendsetting designs and innovative functions in unique quality, developed in accordance with the applicable international standards.

Comprehensive information about all products and systems as well as service and support is available in a compact and clear format on the Internet at:

www.siemens.com/lowvoltage

Product selection using the interactive catalog CA 01 of Industry



Detailed information together with convenient interactive functions:

The interactive catalog CA 01 covers more than 80 000 products and thus provides a full summary of the Siemens Industry Automation and Drive Technologies product base.

Here you will find everything that you need to solve tasks in the fields of automation, switchgear, installation and drives. All information is linked into a user interface which is easy to work with and intuitive.

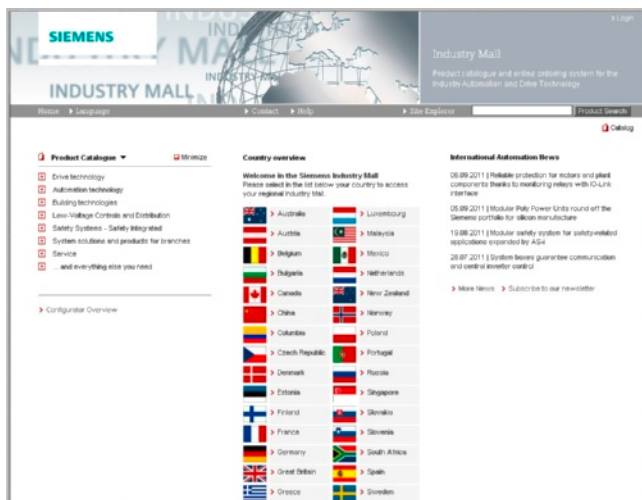
After selecting the product of your choice you can order at the press of a button, by fax or by online link.

Information on the interactive catalog CA 01 can be found on the Internet under

www.siemens.com/automation/ca01

or on DVD.

Easy Shopping with the Industry Mall



The Industry Mall is the virtual department store of Siemens AG on the Internet. Here you have access to a huge range of products presented in electronic catalogs in an informative and attractive way.

Data transfer via EDIFACT allows the whole procedure from selection through ordering to tracking of the order to be carried out online via the Internet.

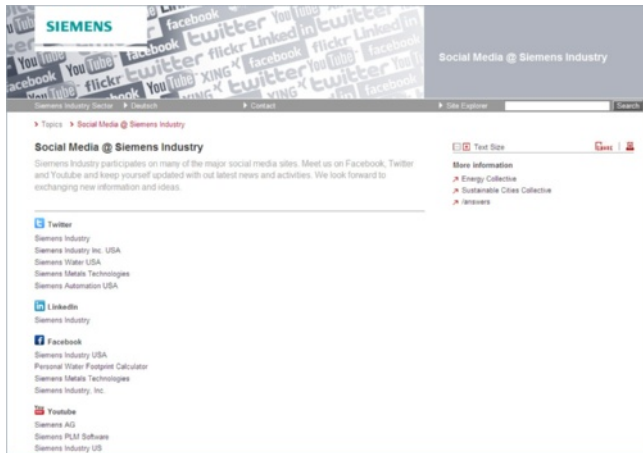
Numerous functions are available to support you.

For example, powerful search functions make it easy to find the required products, which can be immediately checked for availability. Customer-specific discounts and preparation of quotes can be carried out online as well as order tracking and tracing.

Please visit the Industry Mall on the Internet under:

www.siemens.com/industrymall

Social Media



Connect with Siemens through social media: visit our social networking sites for a wealth of useful information, demos on products and services, the opportunity to provide feedback, to exchange information and ideas with customers and other Siemens employees, and much, much more. Stay in the know and follow us on the ever-expanding global network of social media.

Connect with Siemens Industry at our central access point:

www.siemens.com/industry/socialmedia

Or via our product pages at:

www.siemens.com/automation

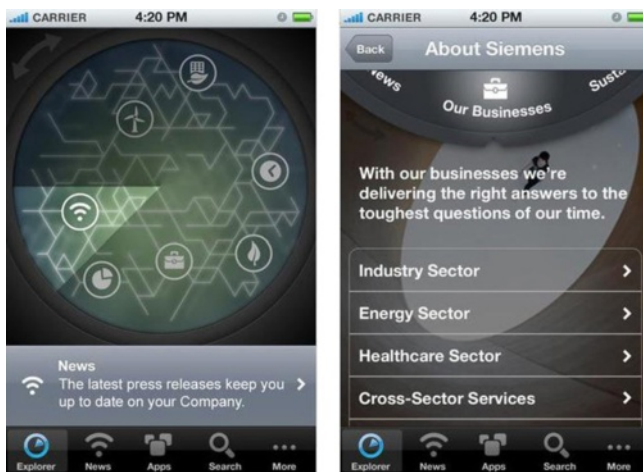
or

www.siemens.com/drives

To find out more about Siemens' current social media activities visit us at:

www.siemens.com/socialmedia

Mobile Media

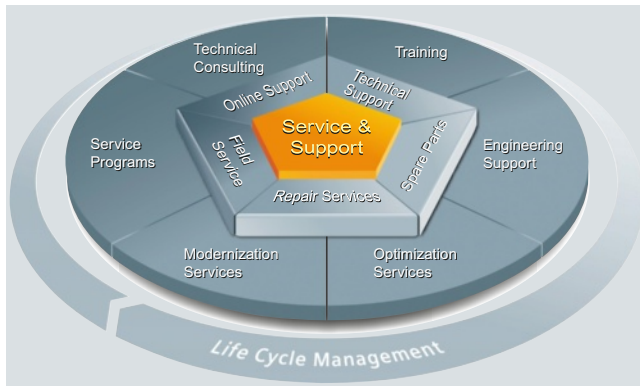


We are also constantly expanding our offering of cross-platform apps for smartphones and tablets. You will find the current Siemens apps at your app store.

Appendix

Service & Support

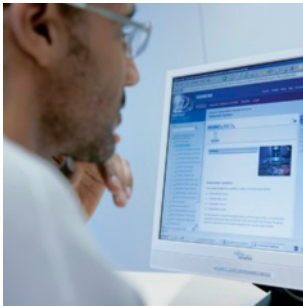
The unmatched complete service for the entire life cycle



Our Service & Support are available worldwide to help you with every aspect of Siemens Building and Automation Technologies. We offer on-site support for every phase of the life cycle of your buildings and plants in more than 100 countries.

Every step of the way, you have access to an experienced team of specialists and their combined expertise. Thanks to regular training and the close cooperation of key employees around the globe, we are able to offer reliable services for a huge range of options.

Online support



Our comprehensive online information platform covers every aspect of our Service & Support and is available whenever, wherever.

www.siemens.com/lowvoltage/support

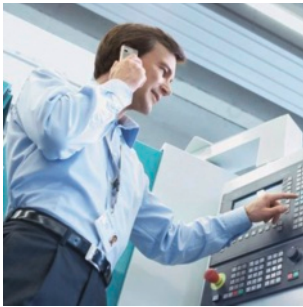
Field Service



Siemens Field Service offers support with all aspects of commissioning and maintenance – so that the availability of your machines and plants is assured whatever the case.

www.siemens.com/lowvoltage/technical-support

Technical support



The competent consulting service for technical issues with a broad range of customer-oriented services for all our products and systems.

www.siemens.com/lowvoltage/technical-support

Spare parts



Plants and systems in all sectors worldwide are expected to meet ever higher levels of availability. We can help you rule out unexpected stoppages with a global network and optimum logistics chains.

www.siemens.com/lowvoltage/technical-support

Training



Extend your lead – with practise-related know-how straight from the manufacturer.

www.siemens.com/lowvoltage/training

Specification texts

You can obtain qualified, free support to help you produce specifications for technically equipping non-residential and industrial buildings at

www.siemens.com/specifications

Comprehensive support from A to Z

Overview

Product information

Website	Fast, targeted information on low-voltage power distribution: www.siemens.com/lowvoltage
Newsletter	Always up to date about our trend-setting products and systems: www.siemens.com/lowvoltage/newsletter

Product information/product & system selection

Information and Download Center	Current catalogs, customer magazines, brochures, demo software and promotion packages: www.siemens.com/lowvoltage/infomaterial
Industry Mall	Comprehensive information and order platform for the Siemens Industry Basket: www.siemens.com/lowvoltage/mail

Product & system engineering

SIMARIS software tools	Support in planning and configuration the electrical power distribution: www.siemens.com/simaris
ALPHA SELECT engineering software	Simple and fast configuration for distribution boards and metre cabinets with products from the Siemens Industry Basket: www.siemens.com/alpha-select

Product documentation

Service & Support portal	Comprehensive technical information - from planning to configuration and operation: www.siemens.com/lowvoltage/support
CAX Data	Collation of commercial and technical master product data: www.siemens.com/cax
Image database	Collection of product photographs and graphics, such as dimensional drawings and internal circuit diagrams: www.siemens.com/lowvoltage/bilddb

Product training

SITRAIN portal	Comprehensive training program about our products, systems and engineering tools: www.siemens.com/lowvoltage/training
-----------------------	---

Product hotline

Technical Support	Support for all technical queries about our products: E-mail: support.automation@siemens.com www.siemens.com/lowvoltage/technical-support
--------------------------	---

Software Licenses

Overview

Software types

Software requiring a license is categorized into types. The following software types have been defined:

- Engineering software
- Runtime software

Engineering software

This includes all software products for creating (engineering) user software, e.g. for configuring, programming, parameterizing, testing, commissioning or servicing.

Data generated with engineering software and executable programs can be duplicated for your own use or for use by third parties free-of-charge.

Runtime software

This includes all software products required for plant/machine operation, e.g. operating system, basic system, system expansions, drivers, etc.

The duplication of the runtime software and executable programs created with the runtime software for your own use or for use by third-parties is subject to a charge.

You can find information about license fees according to use in the ordering data (e.g. in the catalog). Examples of categories of use include per CPU, per installation, per channel, per instance, per axis, per control loop, per variable, etc.

Information about extended rights of use for parameterization/configuration tools supplied as integral components of the scope of delivery can be found in the readme file supplied with the relevant product(s).

License types

Siemens Industry Automation & Drive Technologies offers various types of software license:

- Floating license
- Single license
- Rental license
- Rental floating license
- Trial license
- Demo license
- Demo floating license

Floating license

The software may be installed for internal use on any number of devices by the licensee. Only the concurrent user is licensed. The concurrent user is the person using the program. Use begins when the software is started.

A license is required for each concurrent user.

Single license

Unlike the floating license, a single license permits only one installation of the software per license.

The type of use licensed is specified in the ordering data and in the Certificate of License (CoL). Types of use include for example per instance, per axis, per channel, etc.

One single license is required for each type of use defined.

Rental license

A rental license supports the "sporadic use" of engineering software. Once the license key has been installed, the software can be used for a specific period of time (the operating hours do not have to be consecutive).

One license is required for each installation of the software.

Rental floating license

The rental floating license corresponds to the rental license, except that a license is not required for each installation of the software. Rather, one license is required per object (for example, user or device).

Trial license

A trial license supports "short-term use" of the software in a non-productive context, e.g. for testing and evaluation purposes. It can be transferred to another license.

Demo license

The demo license support the "sporadic use" of engineering software in a non-productive context, for example, use for testing and evaluation purposes. It can be transferred to another license. After the installation of the license key, the software can be operated for a specific period of time, whereby usage can be interrupted as often as required.

One license is required per installation of the software.

Demo floating license

The demo floating license corresponds to the demo license, except that a license is not required for each installation of the software. Rather, one license is required per object (for example, user or device).

Certificate of license (CoL)

The CoL is the licensee's proof that the use of the software has been licensed by Siemens. A CoL is required for every type of use and must be kept in a safe place.

Downgrading

The licensee is permitted to use the software or an earlier version/release of the software, provided that the licensee owns such a version/release and its use is technically feasible.

Delivery versions

Software is constantly being updated.

The following delivery versions

- PowerPack
- Upgrade

can be used to access updates.

Existing bug fixes are supplied with the ServicePack version.

PowerPack

PowerPacks can be used to upgrade to more powerful software. The licensee receives a new license agreement and CoL (Certificate of License) with the PowerPack. This CoL, together with the CoL for the original product, proves that the new software is licensed.

A separate PowerPack must be purchased for each original license of the software to be replaced.

Upgrade

An upgrade permits the use of a new version of the software on the condition that a license for a previous version of the product is already held.

The licensee receives a new license agreement and CoL with the upgrade. This CoL, together with the CoL for the previous product, proves that the new version is licensed.

A separate upgrade must be purchased for each original license of the software to be upgraded.

Software Licenses

ServicePack

ServicePacks are used to debug existing products. ServicePacks may be duplicated for use as prescribed according to the number of existing original licenses.

License key

Siemens Industry Automation & Drive Technologies supplies software products with and without license keys.

The license key serves as an electronic license stamp and is also the "switch" for activating the software (floating license, rental license, etc.).

The complete installation of software products requiring license keys includes the program to be licensed (the software) and the license key (which represents the license).

Software Update Service (SUS)

As part of the SUS contract, all software updates for the respective product are made available to you free of charge for a period of one year from the invoice date. The contract will automatically be extended for one year if it is not canceled three months before it expires.

The possession of the current version of the respective software is a basic condition for entering into an SUS contract.

You can download explanations concerning license conditions from www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

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8GK9 001	17.2/12	N	N
8GK9 002	17.2/12	N	N
8GK9 100-OKK00	17.3/25, 17.4/18, 17.5/17	N	N
8GK9 100-OKK01	17.3/25, 17.4/18, 17.5/17	N	N
8GK9 100-OKK03	17.3/25, 17.4/18, 17.5/17	N	N
8GK9 100-OKK04	17.4/19, 17.5/8, 17.5/17	N	N
8GK9 100-OKK1	17.3/25, 17.4/18, 17.5/17	N	N
8GK9 101	17.3/28, 17.4/21	N	N
8GK9 102	17.3/28, 17.4/21	N	N
8GK9 103	17.3/28, 17.4/21	N	N
8GK9 11	17.5/8	N	N
8GK9 12	17.3/23, 17.4/21, 17.5/19	N	N
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8GK9 5	17.2/11, 17.3/20, 17.3/24 ... 25, 17.4/9, 17.4/13, 17.4/19 ... 20, 17.5/7, 17.5/12, 17.5/18 ... 19	N	N
8GK9 6	17.3/21, 17.3/26, 17.4/21, 17.4/24, 17.5/12 ... 13, 17.5/20, 17.5/22	N	N
8GK9 7	17.3/21, 17.3/26, 17.4/21 ... 22, 17.5/8, 17.5/12 ... 13, 17.5/20	N	N
8GK9 9	17.2/10 ... 13, 17.3/16, 17.3/21, 17.3/24 ... 29, 17.4/7, 17.4/9, 17.4/18 ... 25, 17.5/7 ... 8, 17.5/12 ... 13, 17.5/17 ... 22	N	N
8GS4 01	17.3/26	N	N
8GS4 03	17.2/12 ... 13, 17.3/27	N	N
8H			
8HC3	18/42	N	N
8HC6	18/38	N	N
8HE	18/39	N	N
8HP1 101	18/10	N	N
8HP1 102	18/10	N	N
8HP1 103	18/10	N	N
8HP1 104	18/10, 18/27	N	N
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8HP1 203	18/10	N	N
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8HP1 3	18/12	N	N
8HP1 4	18/12	N	N
8HP1 50	18/30, 18/37	N	N
8HP1 51	18/37	N	N
8HP1 52	18/38	N	N
8HP1 53	18/38	N	N
8HP1 54	18/30, 18/37	N	91999
8HP1 70	18/30	N	N
8HP1 72	18/36	N	N

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8HP2 6	18/21	N	N
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8HP4	18/34	N	N
8HP5	18/12, 18/15, 18/20, 18/27	N	N
8HP6	18/10, 18/12 ... 13, 18/15 ... 16, 18/21, 18/31, 18/34, 18/38 ... 39, 18/41	N	N
8HP9	18/42 ... 43, 18/45 ... 47	N	N
8J			
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8JH1 4	18/22, 18/39	N	N
8JH4 0	18/40	N	N
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8JH4 2	18/31	N	N
8JK1	18/22, 18/39	N	N
8JK3	18/16, 18/35 ... 36	N	N
8JK4	18/41	N	N
8M			
8MF4 900	16/6	N	N
8MF4 901	16/6	N	N
8MF4 902	16/6	N	N
8MF4 903	16/7	N	N
8MF4 904	16/6	N	N
8MF4 905	16/6	N	N
8MF4 906	16/6	N	N
8MF4 908	16/6	N	N
8MF5	16/7	N	N
8MF9	16/7	N	N
8MR2 12	16/16	N	N
8MR2 13	16/15	N	N
8MR2 140-0	16/16	EAR99H	N
8MR2 140-1	16/16	EAR99H	N
8MR2 140-2A	16/16	EAR99H	N
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8MR2 170-1D	16/18	N	N
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8MR2 170-2A	16/19	N	N
8MR2 170-2B	16/18	N	N
8MR2 170-4	16/20	N	N
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8MR2 18	16/20	N	N
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8U			
8US1 921	17.3/27, 17.4/22, 17.5/21, 18/35	N	N
8US1 922	18/31	N	N
8US1 923	18/31	N	N
8W			
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8WA2 87	18/13, 18/16, 19/9, 19/14, 19/22	N	N
8WC	18/32	N	N
8WH1 001-OAK	19/6	N	N
8WH1 001-OAM	19/7	N	N
8WH1 001-OB	19/11	N	N
8WH1 001-OC	19/7	N	N
8WH6 001-OAF	19/4	N	N
8WH6 001-OAG	19/5	N	N
8WH6 001-OAH	19/5	N	N
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8WH6 001-OC	19/4 ... 5	N	N
8WH6 001-4	19/13	N	N
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8WH9 04	19/22	N	N
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BVP:211203	15/15	N	N
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Notes

Notes

Conditions of sale and delivery

Overview

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You will find

- an exact explanation of the metal factor
- the text of the Comprehensive Terms and Conditions of Sale and Delivery of Siemens AG

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Order No. E86060-K8260-A101-A3-7600
MP.R3.LP.0000.00.3.20 / Dispo 18302
KG 0213 2. PAS 328 En
Printed in Germany
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