

SIEMENS



Distribution Systems

ALPHA

Catalog
LV 51

Edition
2013

Answers for infrastructure and cities.

Related catalogs

Low-Voltage Power Distribution and Electrical Installation Technology LV 10.1
SENTRON Protection, Switching, Measuring and Monitoring Devices

E86060-K8250-A101-A3-7600



Low-Voltage Power Distribution and Electrical Installation Technology LV 10.2
SIVACON • ALPHA Switchboards and Distribution Systems

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Distribution systems

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

E86060-K1870-A101-A6-7600



Products for Automation and Drives CA 01
Interactive Catalog

DVD: E86060-D4001-A510-D2-7600



Industry Mall
Information and Ordering Platform in the Internet:

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Catalog PDF

Internet:
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Further information about low-voltage power distribution and electrical installation is available on the Internet at:
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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

SIMBOX WP small distribution boards • ALPHA 125 UNIVERSAL distribution boards • ALPHA 630 UNIVERSAL distribution boards • ALPHA AS 800 UNIVERSAL distribution boards • Assembly kits/Accessories for ALPHA UNIVERSAL distribution boards • ALPHA 8HP molded-plastic distribution systems

Busbar Trunking Systems, Overview • CD-K System – 25 A ... 40 A • BD 01 System – 40 A ... 160 A • BD2 System – 160 A ... 1250 A

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.

Technical Support



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

ALPHA Distribution Systems

Catalog LV 51 · 2013



VDE

VERBAND DER ELEKTROTECHNIK
ELEKTRONIK INFORMATIONSTECHNIK

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

SIMBOX WP
Small Distribution Boards

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ALPHA 125 UNIVERSAL
Distribution Boards

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ALPHA 630 UNIVERSAL
Distribution Boards

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Distribution Boards

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Assembly Kits / Accessories for
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ALPHA 8HP Molded-plastic
Distribution Systems

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With commercial data valid for German
Headquarters as of July 2013

Supercedes:
Catalog LV 51 · 2012

Refer to the Industry Mall for current updates
of this catalog:
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The products contained in this catalog can also
be found in the Interactive Catalog CA 01.

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

Please contact your local Siemens branch.

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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

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We offer comprehensive support, from planning to configuration to operation.

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SIMBOX WP

Small Distribution Boards



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Technical specifications
- Entry list:
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Characteristic curves / Certificates

SIMBOX WP Small Distribution Boards

Introduction

1

Benefits

- Plan and configure quickly, simply and conveniently with the ALPHA SELECT software
- The wiring compartment 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 equipment rack ensures easy and fast assembly. The generous wiring compartment and clearly arranged modular design reduce assembly times by approx. 20%
- The plastic materials used can be recycled.

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

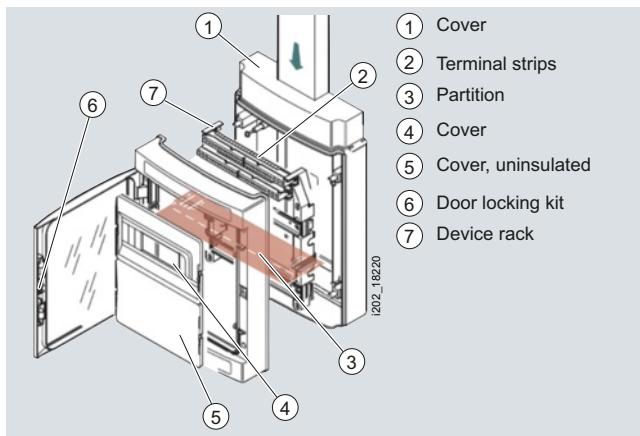
Due to their large temperature operating range (-25°C to +60°C), UV radiation resistance and resistance to dust and splashing water, this small distribution board range is especially suitable for harsh ambient conditions.

Technical specifications

Rated current in A	up to 63
Rated voltage in V AC	400
Rated insulation voltage acc. to IEC/EN 62208 (test values from IEC 61439-1) in AC / DC V	1000
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
Standard mounting rails	TH 35, 35 mm × 7.5 mm (EN 60715)
Device mounting depth	70 mm
Standards	EN 60439-3, IEC 60439-3.

Surface-mounting distribution boards**Overview**

1

**Features**

- According to IEC 60439-3
- Degree of protection IP65
- Can be used in outdoor areas (-20 °C to +60 °C)
- Safety class 2 (total insulation)
- UV-resistant
- Transparent doors
- 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.	PS*/ P. unit	Weight per PU approx. kg		
Surface-mounting distribution boards							
	Type	External dimensions H × W × D in mm	Tiers × MW	(2) Slots N/PE terminal strips ¹⁾ No. × Type			
8GB1371-2	• 1-tier	210 × 143 × 100 210 × 215 × 100 260 × 298 × 140 285 × 410 × 140	1 × 4 1 × 8 1 × 12 1 × 18	-- 1 × 8GB2052-0 1 × 8GB2052-1 1 × 8GB2052-2	8GB1371-0 8GB1371-1 8GB1371-2 8GB1371-3	1 unit 1 unit 1 unit 1 unit	0.579 0.808 1.677 2.290
8GB1372-2	• 2-tier	420 × 298 × 140 463 × 410 × 140	2 × 12 2 × 18	2 × 8GB2052-1 2 × 8GB2052-2	8GB1372-2 8GB1372-3	1 unit 1 unit	2.546 3.920
8GB1373-3	• 3-tier	655 × 410 × 140	3 × 18	2 × 8GB2052-2	8GB1373-3	1 unit	5.225
8GB1374-3	• 4-tier	878 × 410 × 160	4 × 18	4 × 8GB2052-2	8GB1374-3	1 unit	8.000

¹⁾ Not included in scope of delivery of the device.

SIMBOX WP Small Distribution Boards

Accessories

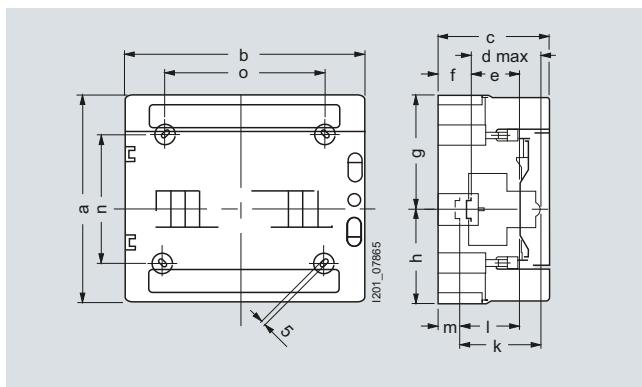
1

Selection and ordering data

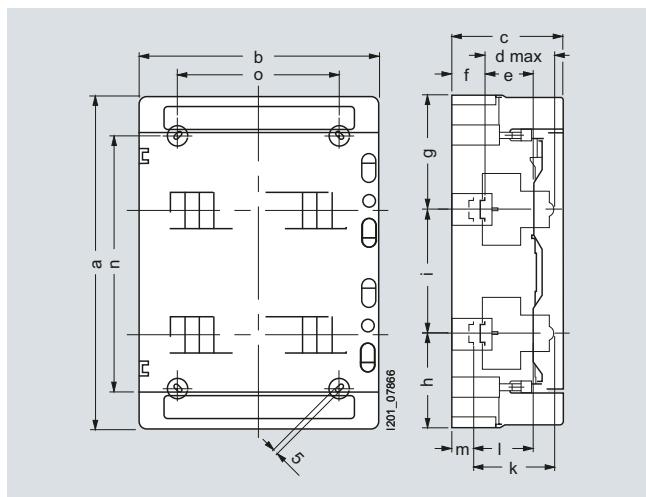
	Version	DT	Order No.	PS*/ P. unit	Weight per PU approx. kg
	① Covers • For connection of conduit and cable duct entries • Convenient snap-on mounting on the distribution board MW • 12 • 18 8GB2051-0				
	② N/PE terminal strips For snapping onto equipment rack MW N  • 8 1 x 25 mm ² + 7 x 10 mm ² • 12 3 x 25 mm ² + 10 x 10 mm ² • 18 5 x 25 mm ² + 14 x 10 mm ²				
	③ Inner partitions Horizontal MW • 12 • 18				
	⑤ Front covers MW • 12 • 18				
	⑥ Safety cylinder locks • With key • Made of metal		8GB2055-0	10 units	0.045
	Blanking strips • 12 MW wide • Color: gray • Knockouts enable easy cutting to required length • With increased flame protection up to 850°C		8GB4671	10 units	0.042

Dimensional drawings**Dimensional drawings**

1



1-tier 8GB1371-0, 8GB1371-1, 8GB1371-2, 8GB1371-3

2-tier 8GB1372-2, 8GB1372-3
(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 x 4	8GB1371-0	210	148	100	75	48	15	105	105	--	--	--	--	156	87
1 x 8	8GB1371-1	210	215	100	75	48	15	105	105	--	--	--	--	110	115
1 x 12	8GB1371-2	260	298	140	75	48	48	117.5	142.5	--	102	75	21	161	200
1 x 18	8GB1371-3	285	410	140	75	48	48	117.5	142.5	--	102	75	21	185	310
2 x 12	8GB1372-2	420	298	140	75	48	48	147.5	122.5	150	102	75	21	320	200
2 x 18	8GB1372-3	463	410	140	75	48	48	155.5	131.5	150	102	75	21	210	293
3 x 18	8GB1373-3	655	410	140	75	48	48	162.5	142.5	175	102	75	21	363	319
4 x 18	8GB1374-3	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 compartment behind the standard mounting rail

SIMBOX WP Small Distribution Boards

Notes

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ALPHA 125 UNIVERSAL Distribution Boards



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2/4	Flush-mounting distribution boards
2/5	Covers and accessories

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More technical product information:

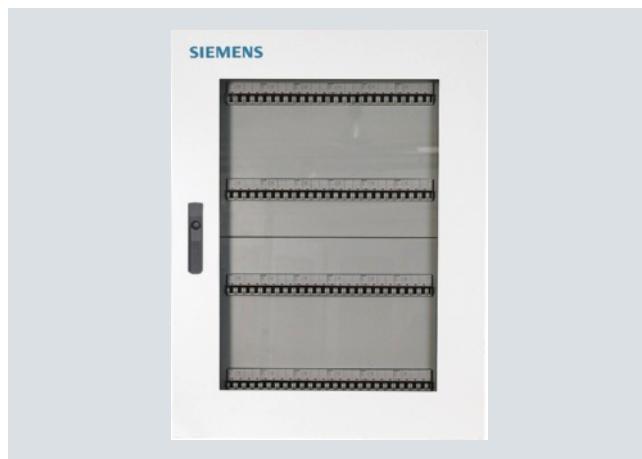
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ALPHA 125 UNIVERSAL Distribution Boards

Introduction

Overview



ALPHA 125 UNIVERSAL distribution boards up to 125 A

The 140 mm range of ALPHA distribution boards is suitable for the installation of modular installation devices for currents up to 125 A. The boards comprise an enclosure with door, which can be transparent, or nontransparent made of stainless steel. They are suitable for both flush and surface mounting. In this latest version the enclosure is designed for wall mounting and installation in frames. The range is available in the width 600 mm and heights 400, 600, 800, 1000 and 1200 mm. The pre-assembled cabinets comprise an enclosure with transparent or nontransparent door and standard mounting rails and all with just one Order No.

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

field. It comprises complete distribution boards with assembly kits for all sizes and a pre-assembled transparent/nontransparent door that enables the fast mounting of devices, cable ducts and wiring. The Siemens system enables the delivery of complete cabinets that are ready for installation in no time at all.

Enclosures

Material: Electrogalvanized and powder-coated sheet steel.
Color: RAL 7035, light gray Further RAL colors are available on request.

Benefits

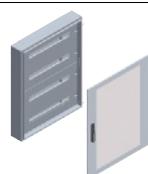
- Easy planning thanks to modular design.
- Complete product range that meets all installation requirements.
- Fast mounting thanks to prefitted standard mounting rails and new covers, for stand-alone or modular installation devices; supplied with our new quick-lock screws.
- All cabinets are supplied with our new quick-lock screws. The new cabinet screws are equipped with a segment that ensures grounding, i.e. no further ground connections are required.
- Enclosure made of electrogalvanized and powder-coated sheet steel
- Degree of protection: Surface mounting: IP30 without door / IP43 with transparent or nontransparent door. Flush mounting: IP30 without door / IP31D with transparent or nontransparent door and frame.
- Safety class I
- Doors can be hinged on the right or left
- Door opening angle of 170°.
- Replaceable locking systems (see Accessories).

Technical specifications

Rated operational voltage	Approx. V	400
Rated impulse withstand voltage U_{imp}	kV	6
Rated current	A	125
Rated short-circuit current I_{cc}	kA	10
Maximum permissible peak current I_{pk}	kA	17
Safety class	I	
Degree of protection acc. to EN 60529		IP30 without door, IP31D flush mounting with door, IP43 surface mounting with door
Distance between standard mounting rails	mm	200
Pollution degree		34, conduction interval of 1 s
Ambient temperature	°C	-5 ... 35
Enclosures		Sheet steel
Surface		Electrogalvanized and powder-coated
Color		RAL 7035 light gray (further colors available on request)
Surface		Electrogalvanized and powder-coated
Color		RAL 7035 (light gray)
Lock		Rotary handle – can be replaced by other locking systems if required
Standards		IEC 60439-1/3, Italian standards: CEI 23-48, CEI 23-49, CEI 23-51

Cabinet dimensions

ALPHA 125 UNIVERSAL unequipped distribution boards Wall-mounted distribution boards, surface/flush mounting in 125 A			Internal dimensions in mm		Module (1 = 200 mm)	External depth
IP30 without door	IP43 with door	IP31D with door	Height	Width		
			400	600	2	140
			600	600	3	140
			800	600	4	140
			1000	600	5	140
			1200	600	6	140



ALPHA 125 UNIVERSAL Distribution Boards

Surface-mounting distribution boards

Overview

- Cabinet depth 140 mm
- Safety class I
- Degree of protection: IP43 with door – IP30 without door
- Covers with new quick-lock screws and integrated grounding connection

- Color RAL 7035, light gray
- Enclosure with doors and twist lock
(can be replaced with other enclosure types if required)
- Flanges for cable entry, top/bottom

Selection and ordering data



Internal/external dimensions	Width	Tiers/ MW	DT	Order No.	PS*/ P. unit	Weight kg
Height mm	Width mm					
Complete cabinet, mounted and equipped, surface mounting with steel-sheet door						
400	600	48 (2 × 24)		8GK2042-0KL21	1 unit	15.500
600	600	72 (3 × 24)		8GK2042-1KL21	1 unit	19.700
800	600	96 (4 × 24)		8GK2042-2KL21	1 unit	24.000
1000	600	120 (5 × 24)		8GK2042-3KL21	1 unit	28.200
1200	600	144 (6 × 24)		8GK2042-4KL21	1 unit	32.500
Complete cabinet, mounted and equipped, surface mounting with transparent door						
400	600	48 (2 × 24)		8GK2042-0KM21	1 unit	15.700
600	600	72 (3 × 24)		8GK2042-1KM21	1 unit	19.400
800	600	96 (4 × 24)		8GK2042-2KM21	1 unit	24.200
1000	600	120 (5 × 24)		8GK2042-3KM21	1 unit	28.400
1200	600	144 (6 × 24)		8GK2042-4KM21	1 unit	32.700

ALPHA 125 UNIVERSAL Distribution Boards

Flush-mounting distribution boards

Overview

- Depth 140 mm
- Safety class I
- Degree of protection: IP31D with door – IP30 without door
- Covers with new quick-lock screws and integrated grounding connection
- Color RAL 7035, light gray
- Ideal as secondary distribution boards
- Enclosure with doors and twist lock
(can be replaced with other locking systems if required)
- The flush mounting version is supplied complete with brackets for wall mounting

2

Selection and ordering data



Internal/external dimensions	Width	Tiers/ MW	DT	Order No.	PS*/ P. unit	Weight kg
Height mm	Width mm					
Complete cabinet, mounted and equipped, flush mounting with steel-sheet door						
400	600	48 (2 × 24)		8GK2043-0KL21	1 unit	13.700
600	600	72 (3 × 24)		8GK2043-1KL21	1 unit	17.200
800	600	96 (4 × 24)		8GK2043-2KL21	1 unit	21.200
1000	600	120 (5 × 24)		8GK2043-2KL21	1 unit	21.200
1200	600	144 (6 × 24)		8GK2043-4KL21	1 unit	29.300
Complete cabinet, mounted and equipped, flush mounting with transparent door						
400	600	48 (2 × 24)		8GK2043-0KM21	1 unit	13.900
600	600	72 (3 × 24)		8GK2043-1KM21	1 unit	17.400
800	600	96 (4 × 24)		8GK2043-2KM21	1 unit	21.400
1000	600	120 (5 × 24)		8GK2043-3KM21	1 unit	24.900
1200	600	144 (6 × 24)		8GK2043-4KM21	1 unit	29.500

ALPHA 125 UNIVERSAL Distribution Boards

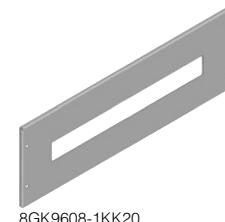
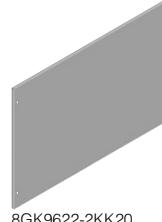
Covers and accessories

Overview

- Covers with new quick-lock screws and integrated grounding connection
- Additional cabinet accessories

Selection and ordering data

2



Internal/external dimensions		DT	Nontransparent covers Order No.	PS*/ P. unit	Weight kg	DT	Covers for modular installation devices Order No.	PS*/ P. unit	Weight kg
Height mm	Width mm								
50	600		8GK9620-1KK20	4 units	0.400	--			
100	600		8GK9621-1KK20	4 units	1.000	--			
150	600		8GK9622-1KK20	4 units	1.400	8GK9608-1KK22	4 units	1.400	
200	600		8GK9623-1KK20	1 unit	1.500	8GK9608-1KK20	1 unit	1.000	
300	600		--			8GK9608-2KK22	4 units	2.500	
400	600		8GK9622-2KK20	1 unit	3.000	8GK9608-2KK20	1 unit	2.000	
450	600		--			8GK9608-3KK22	1 unit	3.000	
600	600		8GK9622-4KK20	1 unit	4.000	8GK9608-4KK20	1 unit	3.000	
800	600		8GK9622-5KK20	1 unit	5.500	--			

Accessories

Individual components	Version	DT	Order No.	PS*/ P. unit	Weight kg
	TH 35 standard mounting rail for modular installation devices Width 600 mm		8GK9920-0KK11	1 unit	0.300
	Holder for cable duct Width 600 mm		8GK9920-0KK20	1 unit	0.300
	Grounding bar, PE Width 600 mm (20 x 5 mm²)		8GK9920-0KK10	1 set	0.500
	Hinges for covers Required for hinged covers		8GK9120-0KK11	10 units	0.040

ALPHA 125 UNIVERSAL Distribution Boards

Covers and accessories

	Version	DT Order No.	PS*/ P. unit	Weight kg
Locking system				
	Espagnolette lock, standard, black Made of plastic, for wall-mounted distribution boards, IP43 (replacement part)	8GK9560-0KK04	1 unit	0.300
	Espagnolette lock for wall-mounted distribution boards, IP43 and IP55 Can be used with E012 semicylinder insert (order with 8GK9560-0KK07 profile semicylinder)	8GK9560-0KK06	1 unit	0.300
	E012 profile semicylinders 8GK9560 insert and key	8GK9560-0KK07	1 unit	0.300

ALPHA 630 UNIVERSAL Distribution Boards

3



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3/10	Unequipped distribution boards
3/17	Complete distribution boards, mounted and equipped
3/19	Busbar systems
3/20	Set of copper busbars and connection accessories

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ALPHA 630 UNIVERSAL Distribution Boards

Introduction

Overview



ALPHA 630 UNIVERSAL distribution boards up to 630 A, unequipped distribution boards

The 250 mm deep range of ALPHA distribution boards, available as wall or floor-mounted distribution board, is suitable for the installation of BETA modular installation devices, 3VL molded case circuit breakers, 3VT molded case circuit breakers up to 630 A and 3KA7 disconnectors up to 400 A.

Select the flat pack version (for self-assembly) with width 600 mm and heights: 400, 600, 800, 1000 and 1200 mm. Alternatively, select the versions offering widths of 600+250 mm and 900 mm with heights 1000, 1200, 1600, 1800 and 2000.

The degree of protection is IP30 without door and IP43 with transparent or nontransparent door. The transparent door is available with a standard or Giugiaro design. ALPHA distribution boards are also available in a design with IP55 degree of protection.

The modular design of our Siemens distribution board system draws on our long years of experience in the distribution board field. This system has been tailored to meet individual requirements for distribution board installation, thus considerably facilitating the work of installation engineers.

The system comprises a flat pack enclosure for degree of protection IP43, while the unequipped distribution boards are supplied welded and preassembled for degree of protection IP55.

Enclosures

Material: Electrogalvanized and powder-coated sheet steel.

Color: RAL 7035, light gray

Further RAL colors are available on request.

Design

Distribution board, flat pack for self-assembly



ALPHA 630 UNIVERSAL distribution boards up to 630 A as flat pack

"Platform" mounting

This "platform" refers to the rear panel with its inner equipment rack designed to accommodate all ALPHA assembly kits.

Users can mount the assembly kits (kits for molded case circuit breakers, for modular installation devices, for terminal blocks, etc.) directly onto the "platform" and, after wiring them, assemble the remaining parts of the enclosure (base plates, roof and side panels).

Siemens has chosen the innovative path of delivering the distribution boards in flat pack form, i.e. the distribution boards are delivered as individual parts for self-assembly.

The individual parts, mounting instructions and all mounting accessories and screws are packed together in a single cardboard box. The packaging is especially designed to have the smallest possible footprint during storage.

The system enables fast and efficient mounting of the individual parts on a wall or workbench with just a screwdriver. The advantages speak for themselves: cost and space savings during storage and simple and easily accessible wiring at the sides.

The ability to assemble the remaining parts of the enclosure at a later point also helps to prevent damage to the paint finish and other parts of the structure.

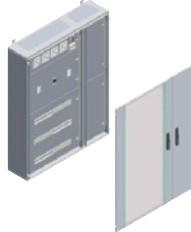
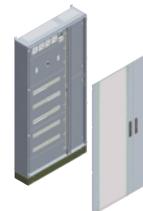
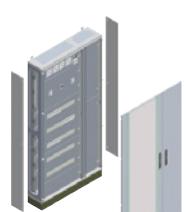
ALPHA 630 UNIVERSAL Distribution Boards

Introduction

Technical specifications

Rated operational voltage, approx.	V	690
Rated insulation voltage U_i , approx.	V	690
Rated impulse withstand voltage U_{imp}	kV	6
Rated current	A	up to 630
Rated short-time current I_{cw}	kA	25, conduction interval of 1 s
Maximum permissible rated peak withstand current I_{pk}	kA	up to 53
Safety class	I	
Degree of protection acc. to EN 60529		IP30 - IP43 - IP55
Distance between standard mounting rails	mm	150/200
Pollution degree		3
Ambient temperature	°C	-5 ... +35
Enclosures		Sheet steel
Surface		Electrogalvanized and powder-coated
Color		RAL 7035 light gray, further colors available on request
Lock		2-point locking with double-bit lock. Also available with other locking systems if required
Standards		IEC/EN 60439-1, IEC/EN 61439-1/-2
Overvoltage category		III

Cabinet dimensions

	IP30 without door	IP43 with door	Internal dimensions in mm	Module (1 = 200 mm)	External depth	
			Height	Width		
ALPHA 630 UNIVERSAL flat pack for self-assembly						
Wall-mounted distribution boards I_n 630 A			400 600 800 1000 1200 1200 1200 1000 1200	600 600 600 600 600 600+250 600+250 900 900	2 3 4 5 6 5 6 5 6	250 250 250 250 250 250 250 250 250
Floor-mounted distribution boards I_n 630 A			1600 1800 2000 1600 1800 2000 1600 1800 2000 1600 1800 2000	600 600 600 600+250 600+250 600+250 900 900 900 300 300 300	8 9 10 8 9 10 8 9 10 8 9 10	250 250 250 250 250 250 250 250 250 250 250 250
ALPHA 630 UNIVERSAL unequipped distribution boards						
Wall-mounted distribution boards I_n 630 A			600 800 1000 1200 1000 1200 1000 1200	600 600 600 600 600+250 600+250 900 900	3 4 5 6 5 6 5 6	250 250 250 250 250 250 250 250
Floor-mounted distribution boards I_n 630 A			1600 1800 2000 1600 1800 2000 1600 1800 2000 1600 1800 2000	600 600 600 600+250 600+250 600+250 900 900 900 300 300 300	8 9 10 8 9 10 8 9 10 8 9 10	250 250 250 250 250 250 250 250 250 250 250 250

ALPHA 630 UNIVERSAL Distribution Boards

Distribution boards, flat pack for self-assembly

Overview

- The equipment racks, assembly kits and various components are mounted directly onto the "platform" and form the basis of the flat pack concept
- Cabinet depth of 250 mm
- Degree of protection IP43 with door
- Safety class I
- Color RAL 7035, light gray
- The flat pack enclosure is supplied as individual parts for self-assembly.

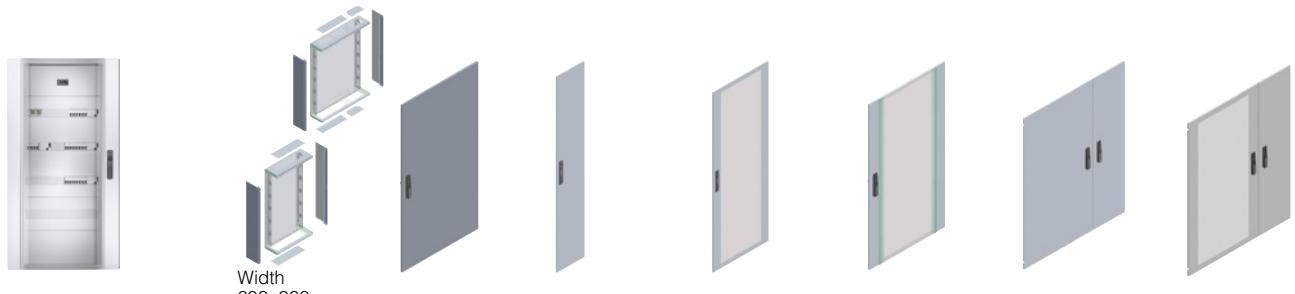
- Flanges for cable entry, top/bottom
- The doors of the floor-mounted distribution board version are fitted with twist lock/espagnolette locks (these can be replaced with other locking systems if required)
- Side panels are included in the scope of delivery
- Doors can be hinged on the right or left
- For further information on how to assemble the distribution board (assembly kit for switchgear and accessories), see Chapter 5.

3

Design

Configuration options

Configuration of flat pack wall-mounted distribution boards, IP30 and IP43



Version Height x width x depth mm	Degree of pro- tection IP	Flat pack distribution boards for self- assembly Order No.	Steel-sheet door Order No.	Steel-sheet door ¹⁾ width 250 mm for cabling box Order No.	Transparent door Order No.	Transparent door Giugiaro design Order No.	Double door made of sheet steel, width 600+250 mm ¹⁾ Order No.	Transparent double door, width 600+250 mm ¹⁾ Order No.
600 x 400 x 250	30/43	8GK2100-0KS23	8GK9515-3KK20	--	8GK9505-3KK20	8GK9507-2KK23	--	--
600 x 600 x 250	30/43	8GK2100-1KS23	8GK9515-4KK20	--	8GK9505-4KK20	8GK9507-4KK23	--	--
600 x 800 x 250	30/43	8GK2100-2KS23	8GK9515-5KK20	--	8GK9505-5KK20	8GK9507-5KK23	--	--
600 x 1000 x 250	30/43	8GK2100-3KS23	8GK9515-6KK20	--	8GK9505-6KK20	8GK9507-7KK23	--	--
600 x 1200 x 250	30/43	8GK2100-4KS23	8GK9515-7KK20	--	8GK9505-7KK20	8GK9507-8KK23	--	--
900 x 1000 x 250	30/43	8GK2100-3KL23	8GK9515-6KK30	8GK9515-6KK40	8GK9505-6KK30	8GK9507-7KK33	8GK9515-6KK20 + 8GK9515-6KK40	8GK9505-6KK20 + 8GK9515-6KK40
900 x 1200 x 250	30/43	8GK2100-4KL23	8GK9515-7KK30	8GK9515-7KK40	8GK9505-7KK30	8GK9507-8KK33	8GK9515-7KK20 + 8GK9515-7KK40	8GK9505-7KK20 + 8GK9515-7KK40



Version Height x width x depth mm	Degree of pro- tection IP	Transparent double door Giugiaro design, width 600+250 mm ¹⁾ Order No.	Side panels RAL 7035 (pair) ²⁾ Order No.	Vertical profile bar for wiring compartment Order No.	Cover for wiring compartment, width 250/300 mm Order No.	Base, color: blue green height 100 mm ³⁾ Order No.	Terminal box for cable entry and cable duct Order No.
600 x 400 x 250	30/43	--	Are included in the scope of de- livery	--	--	8GK9906-0KK23	8GK9920-0KK41
600 x 600 x 250	30/43	--		--	--	8GK9906-0KK23	8GK9920-0KK41
600 x 800 x 250	30/43	--		--	--	8GK9906-0KK23	8GK9920-0KK41
600 x 1000 x 250	30/43	--		--	--	8GK9906-0KK23	8GK9920-0KK41
600 x 1200 x 250	30/43	--		--	--	8GK9906-0KK23	8GK9920-0KK41
900 x 1000 x 250	30/43	8GK9507-7KK23 + 8GK9515-6KK40	8GK9125-7KK01	8GK9606-7KK10	8GK9906-0KK33	8GK9920-0KK42	8GK9920-0KK42
900 x 1200 x 250	30/43	8GK9507-8KK23 + 8GK9515-7KK40	8GK9127-8KK01	2 x 8GK9 606-4KK10	8GK9906-0KK33	8GK9920-0KK42	8GK9920-0KK42

¹⁾ For distribution boards with vertical profile bar for wiring compartment

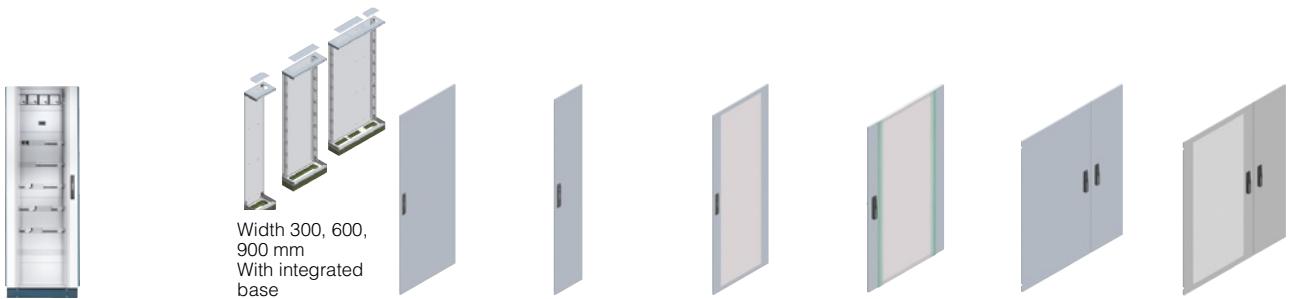
²⁾ To implement side panels with ventilation, quote Order No. 8GK9120-0KK30 (4 units)

³⁾ Additional base (can be mounted on existing base).

ALPHA 630 UNIVERSAL Distribution Boards

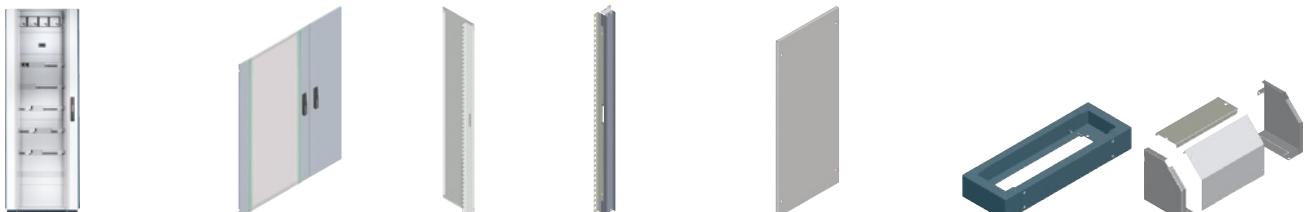
Distribution boards, flat pack for self-assembly

Configuration of flat pack floor-mounted distribution boards, IP30 and IP43



3

Version Height x width x depth	Degree of pro- tection	Flat pack distribution boards for self-assembly	Steel-sheet door	Steel-sheet door ¹⁾ width 250 mm for cabling box	Transparent door	Transparent door Giugiaro design	Double door made of sheet steel, width 600+250 mm ¹⁾	Transparent double door, width 600+250 mm ¹⁾
mm	IP	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
300 x 1600 x 250	30/43	8GK2300-5KL13	8GK9515-8KK10	--	8GK9505-8KK11	--	--	--
300 x 1800 x 250	30/43	8GK2300-6KL13	8GK9515-8KK11	--	8GK9505-8KK12	--	--	--
300 x 2000 x 250	30/43	8GK2300-7KL13	8GK9515-8KK12	--	8GK9505-8KK10	--	--	--
600 x 1600 x 250	30/43	8GK2300-5KL23	8GK9515-8KK20	--	8GK9505-8KK20	8GK9507-8KK20	--	--
600 x 1800 x 250	30/43	8GK2300-6KL23	8GK9515-8KK21	--	8GK9505-8KK21	8GK9507-8KK21	--	--
600 x 2000 x 250	30/43	8GK2300-7KL23	8GK9515-8KK22	--	8GK9505-8KK22	8GK9507-8KK22	--	--
900 x 1600 x 250	30/43	8GK2300-5KL43	8GK9515-8KK30	8GK9515-8KK40	8GK9505-8KK30	8GK9507-8KK30	8GK9515-8KK20	8GK9505-8KK20
							+ 8GK9515-8KK40	+ 8GK9515-8KK40
900 x 1800 x 250	30/43	8GK2300-6KL43	8GK9515-8KK31	8GK9515-8KK41	8GK9505-8KK31	8GK9507-8KK31	8GK9515-8KK21	8GK9505-8KK21
900 x 2000 x 250	30/43	8GK2300-7KL43	8GK9515-8KK32	8GK9515-8KK42	8GK9505-8KK32	8GK9507-8KK32	8GK9515-8KK22	8GK9505-8KK22
							+ 8GK9515-8KK42	+ 8GK9515-8KK42



Version Height x width x depth	Degree of pro- tection	Transparent double door Giugiaro design, width 600+250 mm ¹⁾	Side panels RAL 7035 (pair) ²⁾	Vertical profile bar for wiring compartment	Cover for wiring compartment, width 250/300 mm	Base, color: blue green height 100 mm	Terminal box for cable entry and cable duct
mm	IP	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
300 x 1600 x 250	30/43	--	8GK9120-8KK00	--	2 x 8GK9607-5KK10	8GK9906-0KK13 ³⁾	8GK9920-0KK40
300 x 1800 x 250	30/43	--	8GK9120-8KK01	--	8GK9607-5KK10 + 8GK9607-7KK10	8GK9906-0KK13 ³⁾	8GK9920-0KK40
300 x 2000 x 250	30/43	--	8GK9120-8KK02	--	2 x 8GK9607-7KK10	8GK9906-0KK13 ³⁾	8GK9920-0KK40
600 x 1600 x 250	30/43	--	8GK9120-8KK00	--	--	8GK9906-0KK23 ³⁾	8GK9920-0KK41
600 x 1800 x 250	30/43	--	8GK9120-8KK01	--	--	8GK9906-0KK23 ³⁾	8GK9920-0KK41
600 x 2000 x 250	30/43	--	8GK9120-8KK02	--	--	8GK9906-0KK23 ³⁾	8GK9920-0KK41
900 x 1600 x 250	30/43	8GK9507-8KK20 + 8GK9 515-8KK41	8GK9120-8KK00	8GK9125-8KK11	2 x 8GK9606-5KK10	8GK9906-0KK33 ^{3)*}	8GK9920-0KK42
900 x 1800 x 250	30/43	8GK9507-8KK21 + 8GK9 515-8KK41	8GK9120-8KK01	8GK9125-8KK12	8GK9606-5KK10 + 8GK9606-7KK10	8GK9906-0KK33 ³⁾	8GK9920-0KK42
900 x 2000 x 250	30/43	8GK9507-8KK22 + 8GK9 515-8KK42	8GK9120-8KK02	8GK9125-8KK13	2 x 8GK9606-7KK10	8GK9906-0KK33 ³⁾	8GK9920-0KK42

¹⁾ For distribution boards with vertical profile bar for wiring compartment

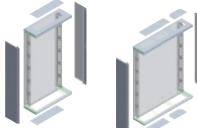
²⁾ To implement side panels with ventilation, quote Order No. 8GK9120-0KK30 (4 units)

³⁾ Additional base (can be mounted on existing base).

ALPHA 630 UNIVERSAL Distribution Boards

Distribution boards, flat pack for self-assembly

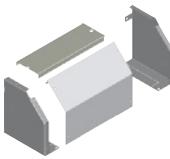
Selection and ordering data

	Version	Dimensions of modules width x height x depth mm	DT	Order No.	PS*/ P. unit	Weight kg
Flat pack wall-mounted distribution boards for self-assembly, IP30 and IP43						
	Flat pack distribution boards for self-assembly Side panels are included in the scope of delivery	600 x 400 x 250 600 x 600 x 250 600 x 800 x 250 600 x 1000 x 250 600 x 1200 x 250 900 x 1000 x 250 900 x 1200 x 250		8GK2100-0KS23 8GK2100-1KS23 8GK2100-2KS23 8GK2100-3KS23 8GK2100-4KS23 8GK2100-3KL23 8GK2100-4KL23	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	12.200 15.000 17.900 20.800 23.800 26.300 29.800
Width 600 mm 900 mm						
	Steel-sheet door	600 x 400 x 250 600 x 600 x 250 600 x 800 x 250 600 x 1000 x 250 600 x 1200 x 250 900 x 1000 x 250 900 x 1200 x 250		8GK9515-3KK20 8GK9515-4KK20 8GK9515-5KK20 8GK9515-6KK20 8GK9515-7KK20 8GK9515-6KK30 8GK9515-7KK30	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	2.500 4.000 5.500 7.000 8.500 9.500 11.500
8GK9515-3KK20						
	Steel-sheet door¹⁾, width 250 mm, for wiring compartment	900 x 1000 x 250 900 x 1200 x 250		8GK9515-6KK40 8GK9515-7KK40	1 unit 1 unit	4.000 4.500
8GK9515-6KK40						
	Footnote					
	¹⁾ For distribution boards with vertical profile bar for wiring compartment					
	Transparent door	600 x 400 x 250 600 x 600 x 250 600 x 800 x 250 600 x 1000 x 250 600 x 1200 x 250 900 x 1000 x 250 900 x 1200 x 250		8GK9505-3KK20 8GK9505-4KK20 8GK9505-5KK20 8GK9505-6KK20 8GK9505-7KK20 8GK9505-6KK30 8GK9505-7KK30	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	2.500 4.000 5.500 7.000 8.500 9.500 11.500
8GK9505-3KK20						
	Transparent door Giugiaro design	600 x 400 x 250 600 x 600 x 250 600 x 800 x 250 600 x 1000 x 250 600 x 1200 x 250 900 x 1000 x 250 900 x 1200 x 250		8GK9507-2KK23 8GK9507-4KK23 8GK9507-5KK23 8GK9507-7KK23 8GK9507-8KK23 8GK9507-7KK33 8GK9507-8KK33	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	2.500 4.000 6.300 7.800 9.300 9.700 11.700
8GK9507-2KK23						
	Double door made of sheet steel, width 600+250 mm¹⁾	900 x 1000 x 250 900 x 1200 x 250		8GK9515-6KK20 + 8GK9515-6KK40 8GK9515-7KK20 + 8GK9515-7KK40	1 unit 1 unit 1 unit 1 unit	7.000 4.000 8.500 4.500
8GK9515-6KK20						
	Footnote					
	¹⁾ For distribution boards with vertical profile bar for wiring compartment					
	Transparent double door, width 600+250 mm	900 x 1000 x 250 900 x 1200 x 250		8GK9505-6KK20 + 8GK9505-6KK40 8GK9505-7KK20 + 8GK9505-7KK40	1 unit 1 unit 1 unit 1 unit	7.000 4.000 8.500 4.500
8GK9505-6KK20						

* You can order this quantity or a multiple thereof.

ALPHA 630 UNIVERSAL Distribution Boards

Distribution boards, flat pack for self-assembly

Version	Dimensions of modules width x height x depth mm	DT	Order No.	PS*/ P. unit	Weight kg
 Transparent double door in Giugiaro design, width 600+250 mm¹⁾	900 x 1600 x 250		8GK9507-7KK23	1 unit	7.800
	900 x 1800 x 250		+ 8GK9515-6KK40 + 8GK9507-8KK23 + 8GK9515-7KK40	1 unit 1 unit 1 unit	4.000 9.300 4.500
Footnote ¹⁾ For distribution boards with vertical profile bar for wiring compartment					
 Vertical profile bar for wiring compartment	900 x 1000 x 250 900 x 1200 x 250		8GK9125-7KK01 8GK9127-8KK01	1 unit 1 unit	1.600 1.900
 Cover for wiring compartment, width 250/300 mm	900 x 1000 x 250 900 x 1200 x 250	2 x	8GK9606-7KK10 8GK9606-4KK10	1 unit 1 unit	3.000 1.800
 Base color: blue green, height 100 mm	600 x 400 x 250 ... 600 x 1200 x 250 900 x 1000 x 250 ... 900 x 1200 x 250		8GK9906-0KK23 8GK9606-4KK10	1 unit	5.500 1.800
 Terminal box for cable entry and cable duct	600 x 400 x 250 ... 600 x 1200 x 250 900 x 1000 x 250 ... 900 x 1200 x 250		8GK9920-0KK41 8GK9920-0KK42	1 unit	4.500 5.500

ALPHA 630 UNIVERSAL Distribution Boards

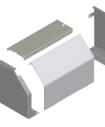
Distribution boards, flat pack for self-assembly

Version	Dimensions of modules width x height x depth mm	DT	Order No.	PS*/ P. unit	Weight kg
Flat pack floor-mounted distribution boards for self-assembly, IP30 and IP43					
	Flat pack distribution boards for self-assembly With integrated base	300 x 1600 x 250 300 x 1800 x 250 300 x 2000 x 250 600 x 1600 x 250 600 x 1800 x 250 600 x 2000 x 250 900 x 1600 x 250 900 x 1800 x 250 900 x 2000 x 250	8GK2300-5KL13 8GK2300-6KL13 8GK2300-7KL13 8GK2300-5KL23 8GK2300-6KL23 8GK2300-7KL23 8GK2300-5KL43 8GK2300-6KL43 8GK2300-7KL43	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	18.000 20.000 22.000 26.000 28.000 30.000 35.500 38.000 40.500
Width 300, 600, 900 mm With integrated base					
	Steel-sheet door	300 x 1600 x 250 300 x 1800 x 250 300 x 2000 x 250 600 x 1600 x 250 600 x 1800 x 250 600 x 2000 x 250 900 x 1600 x 250 900 x 1800 x 250 900 x 2000 x 250	8GK9515-8KK10 8GK9515-8KK11 8GK9515-8KK12 8GK9515-8KK20 8GK9515-8KK21 8GK9515-8KK22 8GK9515-8KK30 8GK9515-8KK31 8GK9515-8KK32	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	7.500 8.500 9.500 11.500 13.000 14.500 15.500 17.500 19.500
8GK9515-8KK10					
	Steel-sheet door¹⁾, width 250 mm, for wiring compartment	900 x 1600 x 250 900 x 1800 x 250 900 x 2000 x 250	8GK9515-8KK40 8GK9515-8KK41 8GK9515-8KK42	1 unit 1 unit 1 unit	6.800 7.900 9.000
8GK9515-8KK40					
	Footnote ¹⁾ For distribution boards with vertical profile bar for wiring compartment				
8GK9505-8KK11	Transparent door	300 x 1600 x 250 300 x 1800 x 250 300 x 2000 x 250 600 x 1600 x 250 600 x 1800 x 250 600 x 2000 x 250 900 x 1600 x 250 900 x 1800 x 250 900 x 2000 x 250	8GK9505-8KK11 8GK9505-8KK12 8GK9505-8KK10 8GK9505-8KK20 8GK9505-8KK21 8GK9505-8KK22 8GK9505-8KK30 8GK9505-8KK31 8GK9505-8KK32	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	8.000 9.000 9.500 11.500 13.000 14.500 15.500 17.500 19.500
8GK9505-8KK11					
	Transparent door Giugiaro design	600 x 1600 x 250 600 x 1800 x 250 600 x 2000 x 250 900 x 1600 x 250 900 x 1800 x 250 900 x 2000 x 250	8GK9507-8KK20 8GK9507-8KK21 8GK9507-8KK22 8GK9507-8KK30 8GK9507-8KK31 8GK9507-8KK32	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	11.500 13.000 14.500 15.500 17.500 19.500
8GK9507-8KK20					
	Double door made of sheet steel, width 600+250 mm¹⁾	900 x 1600 x 25 900 x 1800 x 250 900 x 2000 x 250	8GK9515-8KK20 + 8GK9515-8KK40 8GK9515-8KK21 + 8GK9515-8KK41 8GK9515-8KK22 + 8GK9515-8KK42	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	11.500 6.800 13.000 7.900 14.500 9.000
	Footnote ¹⁾ For distribution boards with vertical profile bar for wiring compartment				

* You can order this quantity or a multiple thereof.

ALPHA 630 UNIVERSAL Distribution Boards

Distribution boards, flat pack for self-assembly

Version	Dimensions of modules width x height x depth mm	DT	Order No.	PS*/ P. unit	Weight kg	
	Transparent double door, width 600+250 mm¹⁾	900 x 1600 x 250 900 x 1800 x 250 900 x 2000 x 250	8GK9505-8KK20 + 8GK9515-8KK40 8GK9505-8KK21 + 8GK9515-8KK41 8GK9505-8KK22 + 8GK9515-8KK42	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	11.500 6.800 13.000 7.900 14.500 9.000	
	Footnote					
	¹⁾ For distribution boards with vertical profile bar for wiring compartment					
	Transparent double door in Giugiaro design, width 600+250 mm¹⁾	900 x 1600 x 250 900 x 1800 x 250 900 x 2000 x 250	8GK9507-8KK20 + 8GK9515-8KK40 8GK9507-8KK21 + 8GK9515-8KK41 8GK9507-8KK22 + 8GK9515-8KK42	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	11.500 6.800 13.000 7.900 14.500 9.000	
	Footnote					
	¹⁾ For distribution boards with vertical profile bar for wiring compartment					
	Side panels, RAL 7035 (pair)^{1) 2)}	300 x 1600 x 250 300 x 1800 x 250 300 x 2000 x 250 600 x 1600 x 250 600 x 1800 x 250 600 x 2000 x 250 900 x 1600 x 250 900 x 1800 x 250 900 x 2000 x 250	8GK9120-8KK00 8GK9120-8KK01 8GK9120-8KK02 8GK9120-8KK00 8GK9120-8KK01 8GK9120-8KK02 8GK9120-8KK00 8GK9120-8KK01 8GK9120-8KK02	1 set 1 set 1 set 1 set 1 set 1 set 1 set 1 set 1 set	10.500 12.000 13.500 10.500 12.000 13.500 10.500 12.000 13.500	
8GK9120-8KK00	Footnote					
	¹⁾ To implement side panels with ventilation, quote Order No. 8GK9120-0KK30 (4 units)					
	²⁾ If you order a 8GK2 100... wall box, side panels are included in the scope of delivery. If it is necessary to order a pair of replacement side panels, please contact the relevant branch of Siemens.					
	Vertical profile bar for wiring compartment	900 x 1600 x 250 900 x 1800 x 250 900 x 2000 x 250	8GK9125-8KK11 8GK9125-8KK12 8GK9125-8KK13	1 unit 1 unit 1 unit	2.500 2.800 3.200	
8GK9125-8KK11	Cover for wiring compartment, width 250/300 mm	300 x 1600 x 250 300 x 1800 x 250 300 x 2000 x 250 900 x 1600 x 250 900 x 1800 x 250 900 x 2000 x 250	8GK9607-5KK10 + 8GK9607-7KK10 8GK9607-7KK10 8GK9606-5KK10 + 8GK9606-7KK10 8GK9606-7KK10	2 x 2 x 2 x	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	2.500 2.500 3.000 3.000 2.400 2.400 3.000 3.000
						
8GK9906-0KK13	Base color: blue green, height 100 mm	300 x 1600 x 250 300 x 2000 x 250 ¹⁾ 600 x 1600 x 250 600 x 2000 x 250 ¹⁾ 900 x 1600 x 250 900 x 2000 x 250 ¹⁾	8GK9906-0KK13 8GK9906-0KK23 8GK9906-0KK33	1 unit 1 unit 1 unit	4.000 5.500 6.000	
	Footnote					
	¹⁾ Additional base (can be mounted on existing base).					
	Terminal box for cable entry and cable duct	300 x 1600 x 250 ... 300 x 2000 x 250 600 x 1600 x 250 ... 600 x 2000 x 250 900 x 1600 x 250 ... 900 x 2000 x 250	8GK9920-0KK40 8GK9920-0KK41 8GK9920-0KK42	1 unit 1 unit 1 unit	3.500 4.500 5.500	
8GK9920-0KK40						

* You can order this quantity or a multiple thereof.

ALPHA 630 UNIVERSAL Distribution Boards

Unequipped distribution boards

Overview

- Unequipped distribution boards with cabinet depth 250 mm
- Degree of protection IP30 without door and IP55 with door
- Safety class I
- Color RAL 7035, light gray
- Flanges for cable entry, top/bottom

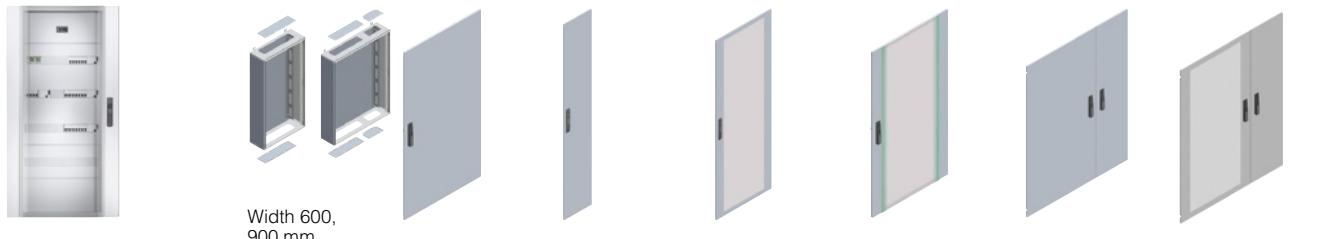
- The doors of the floor-mounted distribution board version are fitted with twist lock/espagnolette locks (these can be replaced with other locking systems if required)
- Doors can be hinged on the right or left
- For further information on how to assemble the distribution board (assembly kit for switchgear and accessories), see [Chapter 5](#).

3

Design

Configuration options

Configuration of compact wall-mounted distribution boards,
IP30 and IP55



Version Height x width x depth mm	Degree of pro- tection IP	Unequipped distribution board Order No.	Steel-sheet door Order No.	Steel-sheet door ¹⁾ width 250 mm for cabling box Order No.	Transparent door Order No.	Transparent door Giugiaro design Order No.	Double door made of sheet steel, width 600+250 mm ¹⁾ Order No.	Transparent double door, width 600+250 mm ¹⁾ Order No.
600 x 600 x 250	30/55	8GK2124-1KK23	8GK9515-4KK20	--	8GK9505-4KK20	8GK9507-4KK23	--	--
600 x 800 x 250	30/55	8GK2124-2KK23	8GK9515-5KK23	--	8GK9505-5KK23	8GK9507-5KK23	--	--
600 x 1000 x 250	30/55	8GK2124-3KK23	8GK9515-6KK23	--	8GK9505-6KK23	8GK9507-7KK23	--	--
600 x 1200 x 250	30/55	8GK2124-4KK23	8GK9515-7KK23	--	8GK9505-7KK23	8GK9507-8KK23	--	--
900 x 1000 x 250	30/55	8GK2124-3KK33	8GK9515-6KK33	8GK9515-6KK43	8GK9505-6KK33	8GK9507-7KK33	8GK9515-6KK23 + 8GK9515-6KK43	8GK9505-6KK23 + 8GK9515-6KK43
900 x 1200 x 250	30/55	8GK2124-4KK33	8GK9515-7KK33	8GK9515-7KK43	8GK9505-7KK33	8GK9507-8KK33	8GK9515-7KK23 + 8GK9515-7KK43	8GK9505-7KK23 + 8GK9515-7KK43



Version Height x width x depth mm	Degree of pro- tection IP	Transparent double door Giugiaro design, width 600+250 mm ¹⁾ Order No.	Side panels RAL 7035 (pair) ³⁾ Order No.	Side panels, color: blue green (pair)	Vertical profile bar for wiring compartment	Cover for wiring compartment, width 250/300 mm Order No.	Base, color: blue green height 100 mm Order No.	Terminal box for cable entry and cable duct Order No.
600 x 600 x 250	30/55	--	Integrated in box	8GK9122-4KK01	--	--	8GK9906-0KK23	8GK9920-0KK41
600 x 800 x 250	30/55	--		8GK9122-5KK01	--	--	8GK9906-0KK23	8GK9920-0KK41
600 x 1000 x 250	30/55	--		8GK9122-6KK01	--	--	8GK9906-0KK23	8GK9920-0KK41
600 x 1200 x 250	30/55	8GK9507-7KK23 + 8GK9515-6KK43	8GK9122-7KK01	8GK9122-6KK01	--	8GK9125-7KK01	8GK9906-0KK23	8GK9920-0KK41
900 x 1000 x 250	30/55	8GK9507-8KK23 + 8GK9515-7KK43				8GK9125-7KK01	8GK9906-0KK33	8GK9920-0KK42
900 x 1200 x 250	30/55				8GK9127-8KK01	2 x 8GK9606-4KK10	8GK9906-0KK33	8GK9920-0KK42

¹⁾ For distribution boards with vertical profile bar for wiring compartment

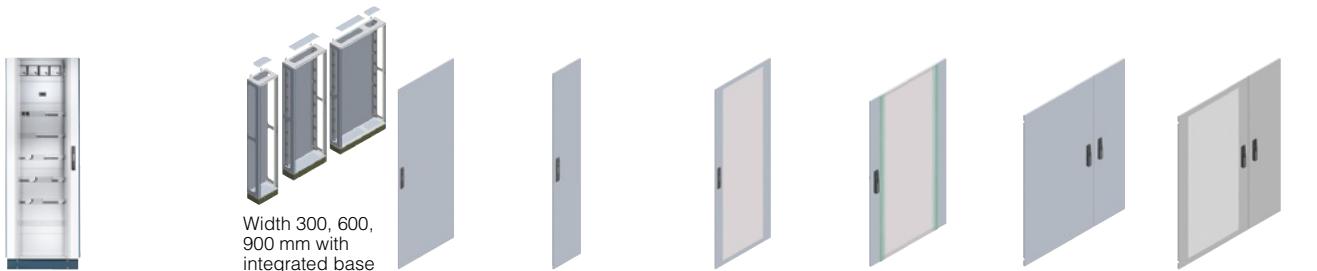
²⁾ Additional base (can be mounted on existing base)

³⁾ To implement side panels with ventilation, quote Order No. 8GK9 120-0KK30 (4 units) in addition to the side panels.

ALPHA 630 UNIVERSAL Distribution Boards

Unequipped distribution boards

Configuration of compact floor-mounted distribution boards,
IP30 and IP55



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Version Height x width x depth	Degree of pro- tection	Unequipped distribution board	Steel-sheet door	Steel-sheet door ¹⁾ width 250 mm, for wiring compartment	Transparent door	Transparent door Giugiaro design	Double door made of sheet steel, width 600+250 mm ¹⁾	Transparent double door, width 600+250 mm ¹⁾
mm	IP	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
300 x 1600 x 250	30/55	8GK2325-5KK13	8GK9515-8KK10	--	8GK9505-8KK11	--	--	--
300 x 1800 x 250	30/55	8GK2325-6KK13	8GK9515-8KK11	--	8GK9505-8KK12	--	--	--
300 x 2000 x 250	30/55	8GK2325-7KK13	8GK9515-8KK12	--	8GK9505-8KK10	--	--	--
600 x 1600 x 250	30/55	8GK2325-5KK23	8GK9515-8KK20	--	8GK9505-8KK20	8GK9507-8KK20	--	--
600 x 1800 x 250	30/55	8GK2325-6KK23	8GK9515-8KK21	--	8GK9505-8KK21	8GK9507-8KK21	--	--
600 x 2000 x 250	30/55	8GK2325-7KK23	8GK9515-8KK22	--	8GK9505-8KK22	8GK9507-8KK22	--	--
900 x 1600 x 250	30/55	8GK2325-5KK43	8GK9515-8KK30	8GK9515-8KK40	8GK9505-8KK30	8GK9507-8KK30	8GK9515-8KK20 + 8GK9515-8KK40	8GK9505-8KK20 + 8GK9515-8KK40
900 x 1800 x 250	30/55	8GK2325-6KK43	8GK9515-8KK31	8GK9515-8KK41	8GK9505-8KK31	8GK9507-8KK31	8GK9515-8KK21 + 8GK9515-8KK41	8GK9505-8KK21 + 8GK9515-8KK41
900 x 2000 x 250	30/55	8GK2325-7KK43	8GK9515-8KK32	8GK9515-8KK42	8GK9505-8KK32	8GK9507-8KK32	8GK9515-8KK22 + 8GK9515-8KK42	8GK9505-8KK22 + 8GK9515-8KK42



Version Height x width x depth	Degree of pro- tection	Transparent double door Giugiaro design, width 600+250 mm ¹⁾	Side panels RAL 7035 (pair) ³⁾	Side panels, color: blue green (pair)	Vertical profile bar for wiring compartment	Cover for wiring compartment, width 250/300 mm	Base, color: blue green height 100 mm ²⁾	Terminal box for cable entry and cable duct
mm	IP	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
300 x 1600 x 250	30/55	--	8GK9 122-8KK03	8GK9 122-8KK06	--	2 x 8GK9607-5KK10	8GK9906-0KK13	8GK9920-0KK40
300 x 1800 x 250	30/55	--	8GK9122-8KK04	8GK9122-8KK07	--	8GK9607-5KK10 + 8GK9607-7KK10	8GK9906-0KK13	8GK9920-0KK40
300 x 2000 x 250	30/55	--	8GK9122-8KK05	8GK9122-8KK08	--	2 x 8GK9607-7KK10	8GK9906-0KK13	8GK9920-0KK40
600 x 1600 x 250	30/55	--	8GK9122-8KK03	8GK9122-8KK06	--	--	8GK9906-0KK23	8GK9920-0KK41
600 x 1800 x 250	30/55	--	8GK9122-8KK04	8GK9122-8KK07	--	--	8GK9906-0KK23	8GK9920-0KK41
600 x 2000 x 250	30/55	--	8GK9122-8KK05	8GK9122-8KK08	--	--	8GK9906-0KK23	8GK9920-0KK41
900 x 1600 x 250	30/55	8GK9507-8KK20 + 8GK9515-8KK40	8GK9122-8KK03	8GK9122-8KK06	8GK9125-8KK11	2 x 8GK9606-5KK10	8GK9906-0KK33	8GK9920-0KK42
900 x 1800 x 250	30/55	8GK9507-8KK21 + 8GK9515-8KK41	8GK9122-8KK04	8GK9122-8KK07	8GK9125-8KK12	8GK9606-5KK10 + 8GK9606-7KK10	8GK9906-0KK33	8GK9920-0KK42
900 x 2000 x 250	30/55	8GK9 07-8KK22 + 8GK9515-8KK42	8GK9122-8KK05	8GK9122-8KK08	8GK9125-8KK13	2 x 8GK9606-7KK10	8GK9906-0KK33	8GK9 920-0KK42

¹⁾ For distribution boards with vertical profile bar for wiring compartment

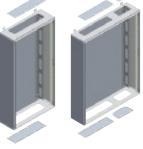
²⁾ Additional base (can be mounted on existing base)

³⁾ To implement side panels with ventilation, quote Order No. 8GK9120-0KK30 (4 units).

ALPHA 630 UNIVERSAL Distribution Boards

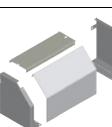
Unequipped distribution boards

Selection and ordering data

Version	Dimensions of modules width x height x depth mm	DT	Order No.	PS*/ P. unit	Weight kg
Wall-mounted distribution board, IP30 and IP55					
	Unequipped distribution board	600 x 600 x 250 600 x 800 x 250 600 x 1000 x 250 600 x 1200 x 250 900 x 1000 x 250 900 x 1200 x 250	8GK2124-1KK23 8GK2124-2KK23 8GK2124-3KK23 8GK2124-4KK23 8GK2124-3KK33 8GK2124-4KK33	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	14.000 17.000 20.000 23.000 24.500 28.000
	Steel-sheet door	600 x 600 x 250 600 x 800 x 250 600 x 1000 x 250 600 x 1200 x 250 900 x 1000 x 250 900 x 1200 x 250	8GK9515-4KK20 8GK9515-5KK23 8GK9515-6KK23 8GK9515-7KK23 8GK9515-6KK33 8GK9515-7KK33	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	4.000 5.500 7.000 8.500 9.500 11.500
	Steel-sheet door¹⁾, width 250 mm, for wiring compartment	900 x 1000 x 250 900 x 1200 x 250 900 x 1200 x 250	8GK9515-6KK43 8GK9515-7KK43 8GK9515-7KK33	1 unit 1 unit 1 unit	4.500 5.000 11.500
	Footnote 1) For distribution boards with vertical profile bar for wiring compartment				
	Transparent door	600 x 600 x 250 600 x 800 x 250 600 x 1000 x 250 600 x 1200 x 250 900 x 1000 x 250 900 x 1200 x 250	8GK9505-4KK20 8GK9505-5KK23 8GK9505-6KK23 8GK9505-7KK23 8GK9505-6KK33 8GK9505-7KK33	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	4.000 6.300 7.800 9.300 9.700 11.700
	Transparent door Giugiaro design	600 x 600 x 250 600 x 800 x 250 600 x 1000 x 250 600 x 1200 x 250 900 x 1000 x 250 900 x 1200 x 250	8GK9507-4KK23 8GK9507-5KK23 8GK9507-7KK23 8GK9507-8KK23 8GK9507-7KK33 8GK9507-8KK33	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	4.000 6.300 7.800 9.300 9.700 11.700
	Double door made of sheet steel, width 600+250 mm¹⁾	900 x 1000 x 250 900 x 1200 x 250	8GK9515-6KK23 + 8GK9515-6KK43 8GK9515-7KK23 + 8GK9515-7KK43	1 unit 1 unit 1 unit 1 unit	7.000 4.500 8.500 5.000
	Footnote 1) For distribution boards with vertical profile bar for wiring compartment				

ALPHA 630 UNIVERSAL Distribution Boards

Unequipped distribution boards

Version	Dimensions of modules width × height × depth mm	DT	Order No.	PS*/ P. unit	Weight kg
 Transparent double door, width 600+250 mm¹⁾	900 × 1000 × 250		8GK9505-6KK23 + 8GK9515-6KK43	1 unit	7.800
	900 × 1200 × 250		8GK9505-7KK23 + 8GK9515-7KK43	1 unit	4.500
 Transparent double door, Giugiaro design, width 600+250 mm¹⁾	900 × 1000 × 250		8GK9507-7KK23 + 8GK9515-6KK43	1 unit	7.800
	900 × 1200 × 250		8GK9507-8KK23 + 8GK9515-7KK43	1 unit	4.500
 Side panels, color: blue green (pair)	600 × 600 × 250 600 × 800 × 250 600 × 1000 × 250 600 × 1200 × 250 900 × 1000 × 250 900 × 1200 × 250		8GK9122-4KK01 8GK9122-5KK01 8GK9122-6KK01 8GK9122-7KK01 8GK9122-6KK01 8GK9122-7KK01	1 set	3.200
				1 set	4.000
 Vertical profile bar for wiring compartment	900 × 1000 × 250 900 × 1200 × 250	2 ×	8GK9125-7KK01 8GK9127-8KK01	1 unit	1.600
				1 unit	1.900
 Cover for wiring compartment, width 250/300 mm	900 × 1000 × 250 900 × 1200 × 250	2 ×	8GK9606-7KK10 8GK9606-4KK10	1 unit	3.000
				1 unit	1.800
 Base color: blue green, height 100 mm	600 × 600 × 250 ... 600 × 1200 × 250 900 × 1000 × 250 ... 900 × 1200 × 250		8GK9906-0KK23 8GK9906-0KK33	1 unit	5.500
				1 unit	6.000
 Terminal box for cable entry and cable duct	600 × 600 × 250 ... 600 × 1200 × 250 900 × 1000 × 250 ... 900 × 1200 × 250	2 ×	8GK9920-0KK41 8GK9920-0KK42	1 unit	4.500
				1 unit	5.500

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ALPHA 630 UNIVERSAL Distribution Boards

Unequipped distribution boards

Version	Dimensions of modules width × height × depth mm	DT	Order No.	PS*/ P. unit	Weight kg
Floor-mounted distribution board, IP30 and IP55					
	Unequipped distribution board With integrated base	300 × 1600 × 250 300 × 1800 × 250 300 × 2000 × 250 600 × 1600 × 250 600 × 1800 × 250 600 × 2000 × 250 900 × 1600 × 250 900 × 1800 × 250 900 × 2000 × 250	8GK2325-5KK13 8GK2325-6KK13 8GK2325-7KK13 8GK2325-5KK23 8GK2325-6KK23 8GK2325-7KK23 8GK2325-5KK43 8GK2325-6KK43 8GK2325-7KK43	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	19.000 20.500 22.500 31.500 34.500 37.500 37.500 41.000 44.500
Width 300, 600, 900 mm					
	Steel-sheet door	300 × 1600 × 250 300 × 1800 × 250 300 × 2000 × 250 600 × 1600 × 250 600 × 1800 × 250 600 × 2000 × 250 900 × 1600 × 250 900 × 1800 × 250 900 × 2000 × 250	8GK9515-8KK10 8GK9515-8KK11 8GK9515-8KK12 8GK9515-8KK20 8GK9515-8KK21 8GK9515-8KK22 8GK9515-8KK30 8GK9515-8KK31 8GK9515-8KK32	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	7.500 8.500 9.500 11.500 13.000 14.500 15.500 17.500 19.500
8GK9515-8KK10					
	Steel-sheet door¹⁾ width 250 mm, for wiring compartment	900 × 1600 × 250 900 × 1800 × 250 900 × 2000 × 250	8GK9515-8KK40 8GK9515-8KK41 8GK9515-8KK42	1 unit 1 unit 1 unit	6.800 7.900 9.000
8GK9515-8KK40					
Footnote					
¹⁾ For distribution boards with vertical profile bar for wiring compartment					
	Transparent door	300 × 1600 × 250 300 × 1800 × 250 300 × 2000 × 250 600 × 1600 × 250 600 × 1800 × 250 600 × 2000 × 250 900 × 1600 × 250 900 × 1800 × 250 900 × 2000 × 250	8GK9505-8KK11 8GK9505-8KK12 8GK9505-8KK10 8GK9505-8KK20 8GK9505-8KK21 8GK9505-8KK22 8GK9505-8KK30 8GK9505-8KK31 8GK9505-8KK32	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	8.000 9.000 9.500 11.500 13.000 14.500 15.500 17.500 19.500
8GK9505-8KK11					
	Transparent door Giugiaro design	600 × 1600 × 250 600 × 1800 × 250 600 × 2000 × 250 900 × 1600 × 250 900 × 1800 × 250 900 × 2000 × 250	8GK9507-8KK20 8GK9507-8KK21 8GK9507-8KK22 8GK9507-8KK30 8GK9507-8KK31 8GK9507-8KK32	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	11.500 13.000 14.500 15.500 17.500 19.500
8GK9507-8KK20					
	Double door made of sheet steel, width 600+250 mm¹⁾	900 × 1600 × 250 900 × 1800 × 250 900 × 2000 × 250	8GK9515-8KK20 + 8GK9515-8KK40 8GK9515-8KK21 + 8GK9515-8KK41 8GK9515-8KK22 + 8GK9515-8KK42	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	11.500 6.800 13.000 7.900 14.500 9.000
Footnote					
¹⁾ For distribution boards with vertical profile bar for wiring compartment					

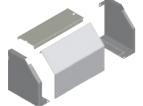
ALPHA 630 UNIVERSAL Distribution Boards

Unequipped distribution boards

Version	Dimensions of modules width × height × depth mm	DT	Order No.	PS*/ P. unit	Weight kg	
	Transparent double door, width 600+250 mm¹⁾	900 × 1600 × 250 900 × 1800 × 250 900 × 2000 × 250	8GK9505-8KK20 + 8GK9515-8KK40 8GK9505-8KK21 + 8GK9515-8KK41 8GK9505-8KK22 + 8GK9515-8KK42	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	11.500 6.800 13.000 7.900 14.500 9.000	
	Footnote					
	¹⁾ For distribution boards with vertical profile bar for wiring compartment					
	Transparent double door Giugiaro design, width 600+250 mm¹⁾	900 × 1600 × 250 900 × 1800 × 250 900 × 2000 × 250	8GK9507-8KK20 + 8GK9515-8KK40 8GK9507-8KK21 + 8GK9515-8KK41 8GK9507-8KK22 + 8GK9515-8KK42	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	11.500 6.800 13.000 7.900 14.500 9.000	
	Footnote					
	¹⁾ For distribution boards with vertical profile bar for wiring compartment					
	Side panels, RAL 7035 (pair)¹⁾	300 × 1600 × 250 300 × 1800 × 250 300 × 2000 × 250 600 × 1600 × 250 600 × 1800 × 250 600 × 2000 × 250 900 × 1600 × 250 900 × 1800 × 250 900 × 2000 × 250	8GK9122-8KK03 8GK9122-8KK04 8GK9122-8KK05 8GK9122-8KK03 8GK9122-8KK04 8GK9122-8KK05 8GK9122-8KK03 8GK9122-8KK04 8GK9122-8KK05	1 set 1 set 1 set 1 set 1 set 1 set 1 set 1 set 1 set	7.200 8.000 8.800 7.200 8.000 8.800 7.200 8.000 8.800	
8GK9122-8KK03	Footnote					
	¹⁾ To implement side panels with ventilation, quote Order No. 8GK9120-0KK30 (4 units).					
	Side panels, color: blue green (pair)	300 × 1600 × 250 300 × 1800 × 250 300 × 2000 × 250 600 × 1600 × 250 600 × 1800 × 250 600 × 2000 × 250 900 × 1600 × 250 900 × 1800 × 250 900 × 2000 × 250	8GK9122-8KK06 8GK9122-8KK07 8GK9122-8KK08 8GK9122-8KK06 8GK9122-8KK07 8GK9122-8KK08 8GK9122-8KK06 8GK9122-8KK07 8GK9122-8KK08	1 set 1 set 1 set 1 set 1 set 1 set 1 set 1 set 1 set	7.200 8.000 8.800 7.200 8.000 8.800 7.200 8.000 8.800	
8GK9122-8KK06	Vertical profile bar for wiring compartment	900 × 1600 × 250 900 × 1800 × 250 900 × 2000 × 250	8GK9125-8KK11 8GK9125-8KK12 8GK9125-8KK13	1 unit 1 unit 1 unit	2.500 2.800 3.200	
						
8GK9125-8KK11	Cover for wiring compartment, width 250/300 mm	300 × 1600 × 250 300 × 1800 × 250 300 × 2000 × 250 900 × 1600 × 250 900 × 1800 × 250 900 × 2000 × 250	8GK9607-5KK10 + 8GK9607-7KK10 8GK9607-7KK10 + 8GK9606-5KK10 8GK9606-5KK10 + 8GK9606-7KK10 8GK9606-7KK10	2 × 2 × 2 × 2 × 2 × 2 ×	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	2.500 2.500 3.000 3.000 2.400 2.400 3.000 3.000
						

ALPHA 630 UNIVERSAL Distribution Boards

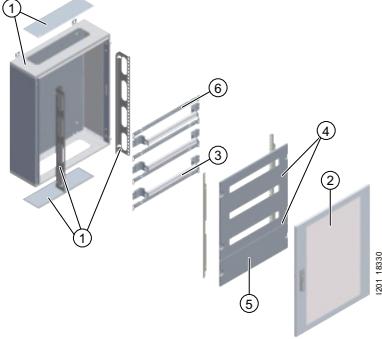
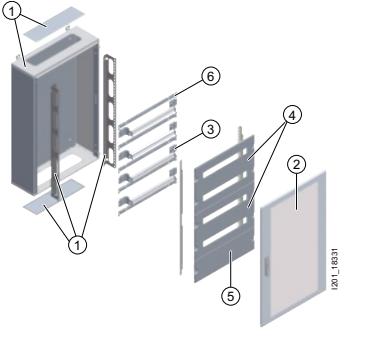
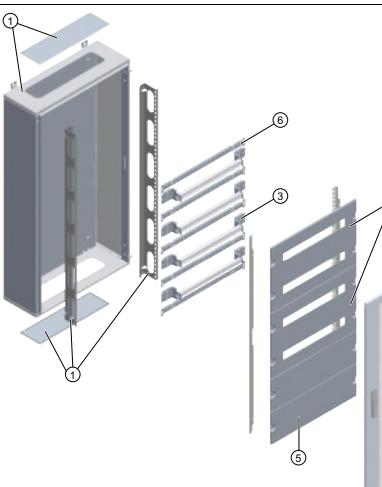
Unequipped distribution boards

Version	Dimensions of modules width × height × depth mm	DT	Order No.	PS*/ P. unit	Weight kg
 8GK9906-0KK13	Base, color: blue green, height 100 mm¹⁾ 300 × 1600 × 250 ... 300 × 2000 × 250 600 × 1600 × 250 ... 600 × 2000 × 250 900 × 1600 × 250 ... 900 × 2000 × 250		8GK9906-0KK13	1 unit	4.000
			8GK9906-0KK23	1 unit	5.500
			8GK9906-0KK33	1 unit	6.000
Footnote 1) Additional base (can be mounted on existing base)					
 8GK9920-0KK40	Terminal box for cable entry and cable duct 300 × 1600 × 250 ... 300 × 2000 × 250 600 × 1600 × 250 ... 600 × 2000 × 250 900 × 1600 × 250 ... 900 × 2000 × 250		8GK9920-0KK40	1 unit	3.500
			8GK9920-0KK41	1 unit	4.500
			8GK9920-0KK42	1 unit	5.500

ALPHA 630 UNIVERSAL Distribution Boards

Complete distribution boards,
mounted and equipped

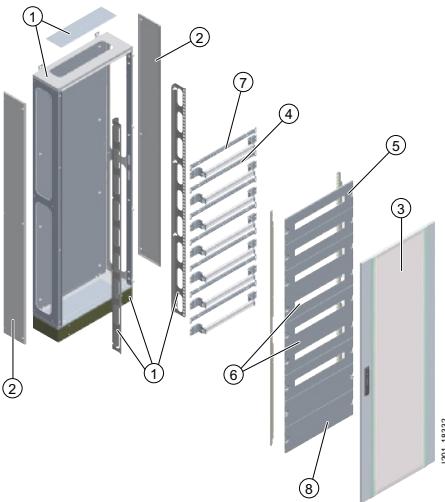
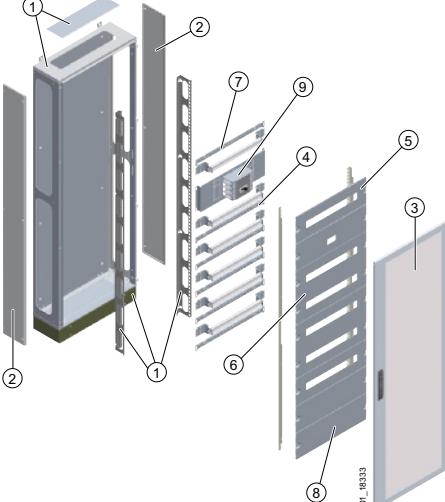
Selection and ordering data

Versions	Dimensions width x height x depth mm	DT	Order No.	PS*/ P. unit	Weight kg
 <p>Wall-mounted distribution board, complete cabinet Comprising: ① 1 x unequipped distribution board, 8GK2124-2KK23 ② 1 x transparent door, 8GK9505-5KK23 ③ 3 x assembly kits for standard mounting rail, 8GF9670 ④ 1 x cover for modular installation devices 3 x 24 MW height 600 mm, 8GK9608-4KK20 ⑤ 1 x closed cover height 200 mm, 8GK9623-1KK20 ⑥ 2 x holders for cable duct, 8GF9652</p>	600 x 800 x 250		8GK9988-0KL00	1 unit	36.000
 <p>Wall-mounted distribution board, complete cabinet Comprising: ① 1 x unequipped distribution board, 8GK2124-3KK23 ② 1 x transparent door, 8GK9505-6KK23 ③ 4 x standard mounting rails, 8GF9670 ④ 2 x covers for modular installation devices 2 x 24 MW, height 400 mm, 8GK9608-2KK20 ⑤ 1 x closed cover height 200 mm, 8GK9623-1KK20 ⑥ 3 x holders for cable duct, 8GF9652</p>	600 x 1000 x 250		8GK9988-0KL01	1 unit	45.000
 <p>Wall-mounted distribution board, complete cabinet Comprising: ① 1 x unequipped distribution board, 8GK2124-4KK23 ② 1 x transparent door, 8GK9505-7KK23 ③ 4 x standard mounting rails, 8GF9670 ④ 2 x covers for modular installation devices 2 x 24 MW, height 400 mm, 8GK9608-2KK20 ⑤ 2 x closed covers height 200 mm, 8GK9623-1KK20 ⑥ 3 x holders for cable duct, 8GF9652</p>	600 x 1200 x 250		8GK9988-0KL02	1 unit	50.000

* You can order this quantity or a multiple thereof.

ALPHA 630 UNIVERSAL Distribution Boards

Complete distribution boards, mounted and equipped

Versions	Dimensions width x height x depth mm	DT	Order No.	PS*/ P. unit	Weight kg
 <p>Floor-mounted distribution board, complete cabinet Comprising: ① 1 x unequipped distribution board, 8GK2325-6KK23 ② 1 x side door, 8GK9122-8KK04 ③ 1 x transparent door, Giugiaro design, 8GK9505-7KK23 ④ 7 x standard mounting rails for mounting modular devices, 8GF9670 ⑤ 3 x covers for modular installation devices 1 x 24 MW, height 200 mm, 8GK9608-1KK20 ⑥ 2 x covers for modular installation devices 2 x 24 MW, height 400 mm, 8GK9608-2KK20 ⑦ 4 x holders for cable duct, 8GF9652 ⑧ 2 x closed covers height 200 mm, 8GK9623-1KK20 </p>	600 x 1800 x 250		8GK2348-7KL00	1 unit 74.000	
 <p>Floor-mounted distribution board, complete cabinet with VL assembly kit Comprising: ① 1 x unequipped distribution board, 8GK2325-6KK23 ② 1 x side door, 8GK9122-8KK04 ③ 1 x transparent door, 8GF9507-8KK21 ④ 6 x standard mounting rails for mounting modular devices, 8GF9670 ⑤ 2 x covers for modular installation devices 1 x 24 MW, height 200 mm, 8GK9608-1KK20 ⑥ 2 x covers for modular installation devices 2 x 24 MW, height 400 mm, 8GK9608-2KK20 ⑦ 3 x holders for cable duct, 8GF9652 ⑧ 2 x closed covers height 200 mm, 8GK9623-2KK20 ⑨ 1 x horizontal VL assembly kit, 160X/160/250, height 200 mm, 8GK6710-2KK23 </p>	600 x 1800 x 250		8GK2348-7KL01	1 unit 76.000	

ALPHA 630 UNIVERSAL Distribution Boards

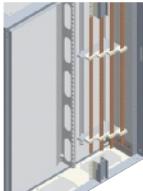
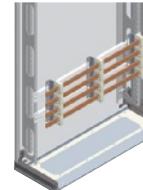
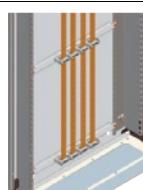
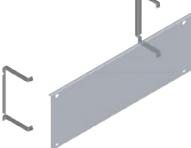
Busbar systems

Overview

The 4-pole compact busbar systems are subdivided into current steps.

Note: In situations where there is less clearance (higher short-circuit strength acc. to table, [see page 4/9](#)), use 8GF9652 (width 600 mm) and 8GF9653 (width 900 mm) holders.

Selection and ordering data

	Rated current A	Number of poles	Busbar cross-section L1/L2/L3	Distance between poles mm	DT	Order No.	PS*/ P. unit	Weight kg
Busbar supports								
Vertical at side / horizontal, at front, graded								
	160	4	15 x 5	15 x 5	50	8GF5760	1 unit	0.600
	250	4	20 x 5	20 x 5	50	8GF5760	1 unit	0.600
	400	4	30 x 5	30 x 5	50	8GF5760	1 unit	0.600
	630	4	30 x 10	30 x 10	50	8GF5761	1 unit	0.600
Crossbar, width 600 mm								
	Crossbar, width 900 mm					8GK9920-0KK35	1 set	0.800
						8GK9920-0KK36	1 set	1.300
Vertical, at back, width 600 mm								
	160	4	15 x 5	15 x 5	50	8GF5764	1 unit	1.000
	250	4	20 x 5	20 x 5	50	8GF5764	1 unit	1.000
	400	4	30 x 5	30 x 5	50	8GF5764	1 unit	1.000
	630	4	30 x 10	30 x 10	50	8GF5765	1 unit	1.000
Vertical, at back, width 900 mm								
	160	4	15 x 5	15 x 5	50	8GF5766	1 unit	1.200
	250	4	20 x 5	20 x 5	50	8GF5766	1 unit	1.200
	400	4	30 x 5	30 x 5	50	8GF5766	1 unit	1.200
	630	4	30 x 10	30 x 10	50	8GF5767	1 unit	1.200
Horizontal, at front¹⁾								
	160	4	15 x 5	15 x 5	50	8GF5762	1 unit	0.500
	250	4	20 x 5	20 x 5	50	8GF5762	1 unit	0.500
	400	4	30 x 5	30 x 5	50	8GF5762	1 unit	0.500
	630	4	30 x 10	30 x 10	50	8GF5763	1 unit	0.500
Crossbar, width 600 mm								
	Crossbar, width 900 mm					8GF9652	1 set	1.300
						8GF9653	1 set	1.800
Vertical								
	160	4	15 x 5	15 x 5	50	8GF5768	1 unit	1.000
	250	4	20 x 5	20 x 5	50	8GF5768	1 unit	1.000
	400	4	30 x 5	30 x 5	50	8GF5768	1 unit	1.000
	630	4	30 x 10	30 x 10	50	8GF5770	1 unit	1.000
Transparent cover								
For horizontal busbars, at front								
	Width 600 mm					8GK9920-0KK37	1 unit	1.000
	Width 900 mm					8GK9920-0KK38	1 unit	1.500

¹⁾ Can be mounted directly on equipment racks with a clearance of 525 mm (width 600 mm) and 825 mm (width 900 mm).

ALPHA 630 UNIVERSAL Distribution Boards

Set of copper busbars and connection accessories

Overview

- Solid busbars, thickness: 5 mm and 10 mm, perforated and with thread for junction with screw, nut and washers.
- Flexible bars, length: 2000 mm or 1300 mm, for the connection of molded case circuit breakers, and rigid bars.
- For further information on how to assemble the distribution board (assembly kit for switchgear and accessories), see Chapter 5.

3

Selection and ordering data

Cross-section mm	Mounting	Set of screws/ bolts	Clamp- ing force Nm	DT	L = 2000 mm	PS*/ P. unit	Weight kg	DT	L = 1300 mm	PS*/ P. unit	Weight kg
Copper busbars and accessories											
15 x 5	Threaded hole				8GF5751	1 unit	1.200		8GF5771	1 unit	0.900
20 x 5	Threaded hole	8GF5891 (M6)	8		8GF5737	1 unit	1.500		8GF5772	1 unit	1.160
30 x 5	Threaded hole				8GF5742	1 unit	2.000		8GF5773	1 unit	1.740
30 x 10	Drill hole	8GF5892 (M8)	20		8GF5752	1 unit	4.700		8GF5774	1 unit	3.500
Copper grounding bar											
20 x 5, width 600 mm	Drill hole	--	--		8GK9920-0KK10	1 set	0.500		8GK9920-0KK10	1 set	0.500
20 x 5, width 900 mm	Drill hole				8GK9920-0KK13	1 unit	0.800		8GK9920-0KK13	1 unit	0.800
Load A	Cross-section mm	DT	Δt = 20°C	PS*/ P. unit	Weight kg	DT	Δt = 40°C	PS*/ P. unit	Weight kg		
Copper terminals with flexible, PVC-insulated strips for molded case circuit breakers¹⁾, L = 2000 mm											
8GF5680	160	13 x 3 x 0.5	--					8GF5686	1 unit	0.500	
	160	13 x 6 x 0.5	8GF5680	1 unit	1.000			--			
	250	16 x 4 x 0.8	--					8GF5687	1 unit	1.000	
	250	20 x 5 x 1	8GF5681	1 unit	2.000			--			
	400	24 x 4 x 1	--					8GF5688	1 unit	2.500	
	400	32 x 5 x 1	8GF5682	1 unit	5.000			--			
	630	40 x 5 x 1	--					8GF5690	1 unit	5.000	
	630	40 x 8 x 1	8GF5683	1 unit	7.500			--			

¹⁾ Provide for covers on the input terminals of the switchgear.

Connecting cables

The cables that are insulated up to the input of the general protective device must be connected so that there is no risk of a short circuit between their conductors.

This way the conductors are only exposed to the conditional short-circuit current determined by the protective device.

ALPHA AS 800 UNIVERSAL Distribution Boards

4



4/2	Introduction
4/3	Unequipped distribution boards
4/7	Busbar systems
4/11	Set of copper busbars and connection accessories

4

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 / Download / FAQs /
Manuals / Operating instructions /
Characteristic curves / Certificates

ALPHA AS 800 UNIVERSAL Distribution Boards

Introduction

Overview



ALPHA AS UNIVERSAL distribution boards up to 800 A

The 400 mm deep range of ALPHA AS distribution boards is suitable for the installation of:

- BETA modular installation devices,
- 3VL molded case circuit breakers,
- 3VT molded case circuit breakers up to 800 A and
- 3KA7 switch disconnectors up to 400 A

The compact floor-mounted distribution board are available in the heights 1800 mm and 2000 mm, all in widths of 300, 600 and 900 mm. This last model can be subdivided into two chambers to produce a board width of 600+250 mm.



ALPHA AS UNIVERSAL distribution boards up to 800 A

Degree of protection IP30 without door and IP55 with door. The doors are the same ones used for the ALPHA 630 distribution boards, i.e. steel-sheet doors and transparent doors in Giugiaro design.

Enclosure material: Electrogalvanized and powder-coated sheet steel.

Color: RAL 7035, light gray Further RAL colors are available on request.

Technical specifications

Rated operational voltage, approx.	V	690
Rated insulation voltage U_i , approx.	V	690
Rated impulse withstand voltage U_{imp}	kV	6
Rated current	A	up to 800
Rated short-time current I_{cw}	kA	25, conduction interval of 1 s
Maximum permissible rated peak withstand current I_{pk}	kA	up to 53
Safety class	I	
Degree of protection acc. to EN 60529		IP30 - IP43 - IP55
Distance between standard mounting rails	mm	150/200
Pollution degree		3
Ambient temperature	°C	-5 ... +35
Enclosures		Sheet steel
Surface		Electrogalvanized and powder-coated
Color		RAL 7035, light gray ¹⁾
Lock		2-point locking with double-bit lock. Also available with other locking systems if required
Standards		EN 60439-1, IEC 60439-1, EN 61439-1/-2, IEC 61439-1/2
Overvoltage category		III

¹⁾ Further colors are available on request.

ALPHA AS 800 UNIVERSAL Distribution Boards

Unequipped distribution boards

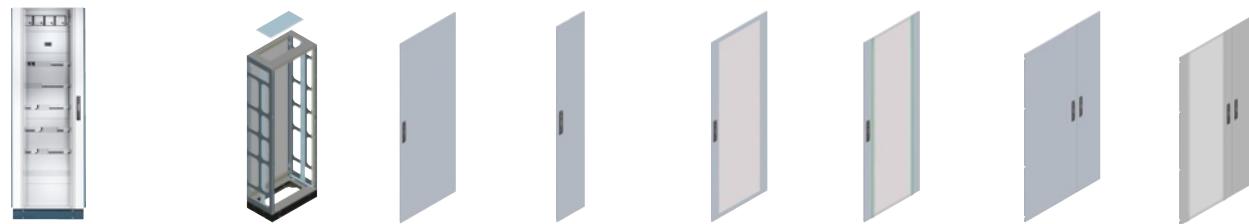
Overview

- Unequipped distribution boards with pre-assembled enclosure
- Cabinet depth of 400 mm
- Degree of protection IP30 without door and IP55 with door
- Safety class I
- Color RAL 7035, light gray
- Flanges for cable entry, top/bottom
- The doors of the floor-mounted distribution board version are fitted with twist lock/espagnolette locks (these can be replaced with other locking systems if required)

Design

Configuration options

Configuration of floor-mounted distribution boards, IP30 and IP55



4

Version Height x width x depth	Degree of pro- tection	Unequipped distribution board	Steel-sheet door	Steel-sheet door ¹⁾ width 250 mm, for wiring compartment	Transparent door	Transparent door Giugiaro design	Double door made of sheet steel, width 600+250 mm ¹⁾	Transparent double door, width 600+250 mm ¹⁾
mm	IP	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
300 x 1800 x 400	30/55	8GK2420-6KK14	8GK9515-8KK11	--	8GK9505-8KK12	--	--	--
300 x 2000 x 400	30/55	8GK2420-7KK14	8GK9515-8KK12	--	8GK9505-8KK10	--	--	--
600 x 1800 x 400	30/55	8GK2420-6KK24	8GK9515-8KK21	--	8GK9505-8KK21	8GK9507-8KK21	--	--
600 x 2000 x 400	30/55	8GK2420-7KK24	8GK9515-8KK22	--	8GK9505-8KK22	8GK9507-8KK22	--	--
900 x 1800 x 400	30/55	8GK2420-6KK34	8GK9515-8KK31	8GK9515-8KK41	8GK9505-8KK31	8GK9507-8KK31	8GK9515-8KK21 + 8GK9515-8KK41	8GK9505-8KK20 + 8GK9515-8KK41
900 x 2000 x 400	30/55	8GK2420-7KK34	8GK9515-8KK32	8GK9515-8KK42	8GK9505-8KK32	8GK9507-8KK32	8GK9515-8KK22 + 8GK9515-8KK42	8GK9515-8KK22 + 8GK9515-8KK42



Version Height x width x depth	Degree of pro- tection	Transparent double door Giugiaro design, width 600+250 mm ¹⁾	Side panels RAL 7035 (pair) ²⁾	Side panels, color: blue green (pair)	Vertical profile bar for wiring compartment/ busbars ³⁾	Cover for wiring compartment, width 250/300 mm	Base, color: blue green height 100 mm
mm	IP	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
300 x 1800 x 400	30/55	--	8GK9200-8KK04	8GK9200-8KK07	8GK9200-8KK00	8GK9607-5KK10 + 8GK9607-7KK10	8GK9906-0KK15
300 x 2000 x 400	30/55	--	8GK9200-8KK05	8GK9200-8KK08	8GK9200-8KK01	2 x 8GK9606-7KK10	8GK9906-0KK15
600 x 1800 x 400	30/55	--	8GK9200-8KK04	8GK9200-8KK07	8GK9200-8KK00	--	8GK9906-0KK23
600 x 2000 x 400	30/55	--	8GK9200-8KK05	8GK9200-8KK08	8GK9200-8KK01	--	8GK9906-0KK23
900 x 1800 x 400	30/55	8GK9507-8KK21 + 8GK9515-8KK41	8GK9200-8KK04	8GK9200-8KK07	8GK9200-8KK00	8GK9606-5KK10 + 8GK9606-7KK10	8GK9906-0KK35
900 x 2000 x 400	30/55	8GK9507-8KK22 + 8GK9515-8KK42	8GK9200-8KK05	8GK9200-8KK08	8GK9200-8KK01	2 x 8GK9606-7KK10	8GK9906-0KK35

¹⁾ For distribution boards with vertical profile bar and wiring compartment.

²⁾ To implement side panels with ventilation, quote Order No.
8GK9120-0KK30 (4 units) in addition to the side panels.

³⁾ The vertical profile bar of the ALPHA AS comprises a support for mounting the doors, as well as a rear universal support and two cross arms at the top.

ALPHA AS 800 UNIVERSAL Distribution Boards

Unequipped distribution boards

Selection and ordering data

	Version	Dimensions of modules width x height x depth mm	DT	Order No.	PS*/ P. unit	Weight kg
Floor-mounted unequipped distribution board IP30 / IP55						
	Unequipped distribution board	300 x 1800 x 400 300 x 2000 x 400 600 x 1800 x 400 600 x 2000 x 400 900 x 1800 x 400 900 x 2000 x 400		8GK2420-6KK14 8GK2420-7KK14 8GK2420-6KK24 8GK2420-7KK24 8GK2420-6KK34 8GK2420-7KK34	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	37.000 40.000 48.000 52.000 59.000 63.000
8GK2420-6KK14	Steel-sheet door	300 x 1800 x 400 300 x 2000 x 400 600 x 1800 x 400 600 x 2000 x 400 900 x 1800 x 400 900 x 2000 x 400		8GK9515-8KK11 8GK9515-8KK12 8GK9515-8KK21 8GK9515-8KK22 8GK9515-8KK31 8GK9515-8KK32	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	8.500 9.500 13.000 14.500 17.500 19.500
	Steel-sheet door¹⁾, width 250 mm, for wiring compartment	900 x 1800 x 400 900 x 2000 x 400		8GK9515-8KK41 8GK9515-8KK42	1 unit 1 unit	7.900 9.000
8GK9515-8KK41	Footnote ¹⁾ For distribution boards with vertical profile bar for wiring compartment					
	Transparent door	300 x 1800 x 400 300 x 2000 x 400 600 x 1800 x 400 600 x 2000 x 400 900 x 1800 x 400 900 x 2000 x 400		8GK9505-8KK12 8GK9505-8KK10 8GK9505-8KK21 8GK9505-8KK22 8GK9505-8KK31 8GK9505-8KK32	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	9.000 9.500 13.000 14.500 17.500 19.500
8GK9505-8KK12	Transparent door Giugiaro design	600 x 1800 x 400 600 x 2000 x 400 900 x 1800 x 400 900 x 2000 x 400		8GK9507-8KK21 8GK9507-8KK22 8GK9507-8KK31 8GK9507-8KK32	1 unit 1 unit 1 unit 1 unit	13.000 14.500 17.500 19.500
	Double door made of sheet steel, width 600 mm + 250 mm¹⁾	900 x 1800 x 400 900 x 2000 x 400		8GK9515-8KK21 + 8GK9515-8KK41 8GK9515-8KK22 + 8GK9515-8KK42	1 unit 1 unit 1 unit 1 unit	13.000 7.900 14.500 9.000
8GK9515-8KK21 + 8GK9515-8KK41	Footnote ¹⁾ For distribution boards with vertical profile bar for wiring compartment					

ALPHA AS 800 UNIVERSAL Distribution Boards

Unequipped distribution boards

	Version	Dimensions of modules width x height x depth mm	DT	Order No.	PS*/ P. unit	Weight kg
	Transparent double door, width 600 + 250 mm¹⁾	900 x 1800 x 400 900 x 2000 x 400		8GK9505-8KK21 + 8GK9515-8KK41 8GK9505-8KK22 + 8GK9515-8KK42	1 unit 1 unit 1 unit 1 unit	13.000 7.900 14.500 9.000
8GK9505-8KK21+ 8GK9515-8KK41	Footnote 1) For distribution boards with vertical profile bar for wiring compartment					
	Transparent double door in Giugiaro design, width 600 + 250 mm¹⁾	900 x 1800 x 400 900 x 2000 x 400		8GK9507-8KK21 + 8GK9515-8KK41 8GK9507-8KK22 + 8GK9515-8KK42	1 unit 1 unit 1 unit 1 unit	13.000 7.900 14.500 9.000
8GK9507-8KK21+ 8GK9515-8KK41	Footnote 1) For distribution boards with vertical profile bar for wiring compartment					
	Side panels, RAL 7035 (pair)	300 x 1800 x 400 300 x 2000 x 400 600 x 1800 x 400 600 x 2000 x 400 900 x 1800 x 400 900 x 2000 x 400		8GK9200-8KK04 8GK9200-8KK05 8GK9200-8KK04 8GK9200-8KK05 8GK9200-8KK04 8GK9200-8KK05	1 set 1 set 1 set 1 set 1 set 1 set	12.500 14.000 12.500 14.000 12.500 14.000
8GK9200-8KK04	Note To implement side panels with ventilation, quote Order No. 8GK9120-0KK30 (4 units) in addition to the side panels.					
	Side panels, color: blue green (pair)	300 x 1800 x 400 300 x 2000 x 400 600 x 1800 x 400 600 x 2000 x 400 900 x 1800 x 400 900 x 2000 x 400		8GK9200-8KK07 8GK9200-8KK08 8GK9200-8KK07 8GK9200-8KK08 8GK9200-8KK07 8GK9200-8KK08	1 set 1 set 1 set 1 set 1 set 1 set	12.500 14.000 12.500 14.000 12.500 14.000
8GK9200-8KK07						
	Vertical profile bar for wiring compartment/ busbars	900 x 1000 x 400 300 x 2000 x 400 600 x 1800 x 400 600 x 2000 x 400 900 x 1800 x 400 900 x 2000 x 400		8GK9200-8KK00 8GK9200-8KK01 8GK9200-8KK00 8GK9200-8KK01 8GK9200-8KK00 8GK9200-8KK01	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	6.700 7.400 6.700 7.400 6.700 7.400
8GK9200-8KK00	Note The vertical profile bar of the ALPHA AS comprises a support for mounting the doors, as well as a rear universal support and two cross arms at the top.					
	Cover for wiring compartment, width 250/300 mm	300 x 1800 x 400 300 x 2000 x 400 900 x 1800 x 400 900 x 2000 x 400	2 x	8GK9607-5KK10 + 8GK9607-7KK10 8GK9607-7KK10 8GK9606-5KK10 + 8GK9606-7KK10 8GK9606-7KK10	1 unit 1 unit 1 unit 1 unit	2.500 3.000 3.000 2.400 3.000 3.000
8GK9607-5KK10 + 8GK9607-7KK10						
	Base color: blue green, height 100 mm	300 x 1800 x 400 300 x 2000 x 400 600 x 1800 x 400 600 x 2000 x 400 900 x 1800 x 400 900 x 2000 x 400		8GK9906-0KK15 8GK9906-0KK15 8GK9906-0KK25 8GK9906-0KK25 8GK9906-0KK35 8GK9906-0KK35	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	6.200 6.200 7.400 7.400 8.600 8.600

* You can order this quantity or a multiple thereof.

ALPHA AS 800 UNIVERSAL Distribution Boards

Unequipped distribution boards

4

Accessories

Supports and crossbars

Description	Height mm	DT	Order No.	PS*/ P. unit	Weight kg
Supports for the installation of devices and components					
	Stay mounts (pair)	1600 1800 2000	8GK6850-0KK02 8GK6850-0KK03 8GK6850-0KK04	1 set 1 set 1 set	4.000 4.500 5.000
	Rear universal supports	1800 2000	8GK6850-0KK05 8GK6850-0KK06	1 unit 1 unit	3.800 4.200
Crossbars					
	Upper crossbar		8GK6850-0KK00	2 units	0.400
	Lateral crossbar		8GK6850-0KK01	2 units	0.400
	Crossbar for installation of assembly kit in sub-section, width 250 mm (pair)		8GK9920-0KK01	1 set	0.500

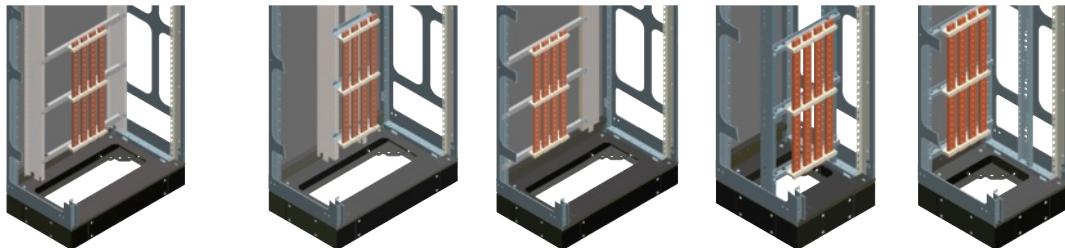
ALPHA AS 800 UNIVERSAL Distribution Boards

Busbar systems

Overview

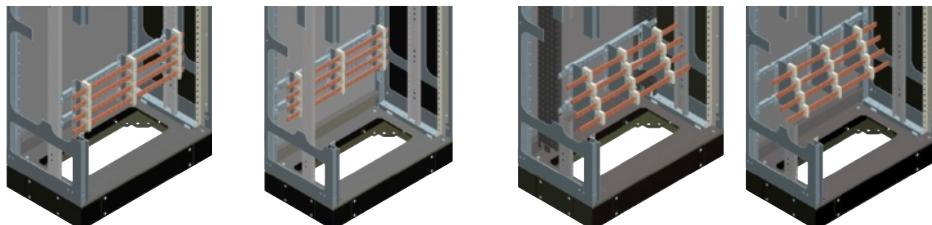
The 4-pole compact busbar systems are subdivided into current steps.

Vertical installation of rear busbars (single bars only)



Version	Vertical, rear, width 600/900 mm Order No.	Vertical, rear, for a clearance of 150 mm, width 600/900 mm Order No.	Vertical, rear, recessed, width 600/900 mm Order No.	Vertical, rear, in width 300 mm Order No.	Vertical, rear, recessed, width 300 mm Order No.
Busbar supports:	8GF5764/65 (width 600 mm) 8GF5766/67 (width 900 mm)	8GF5762/63	8GF5764/65 (width 600 mm) 8GF5766/67 (width 900 mm)	8GF5768/70	8GF5768/70
Supplements: Rear universal supports	8GK6850-0KK05 /06 (2 units)	8GK6850-0KK05 /06 (2 units)	8GK6850-0KK05 /06 (1 unit)	--	--

Horizontal installation of busbars (single bars only)

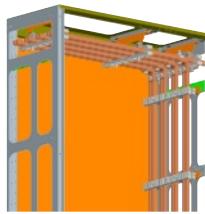


Version	Horizontal flat bars, at front Order No.	Horizontal front bar, flat bar, recessed Order No.	Horizontal front bar, at front, with steps Order No.	Horizontal front bar, recessed, with steps Order No.
Busbar supports:	8GF5762/63	8GF5762/63	8GF5760/61	8GF5760/61
Supplements: • Support plate	8GF9652 (width 600 mm) 8GF9653 (width 900 mm)	8GF9652 (width 600 mm) 8GF9653 (width 900 mm)	8GK9920-0KK35 (width 600 mm) 8GK9920-0KK36 (width 900 mm) 8GK6850-0KK05 /06 (2 units)	8GF9652 (width 600 mm) 8GF9653 (width 900 mm)
• Rear universal supports	--	--	--	--

ALPHA AS 800 UNIVERSAL Distribution Boards

Busbar systems

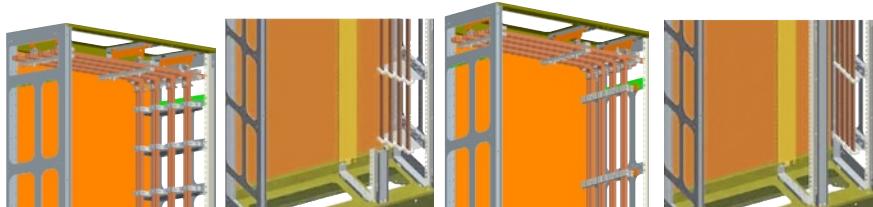
Horizontal installation of top busbars (double bars only)



Version	Horizontal, top
Busbar supports:	Order No.
<ul style="list-style-type: none"> • Busbar support with support plate • Busbar support without support plate 	8GK9750-0KK02 8PQ4000-1BA12
Supplements:	If there is no support (8GK9750-0KK02) mounted on the side of the frame, you will need to order an upper crossbar (8GK6850-0KK00).

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Vertical busbars, for sides



Version	Double bars with steps	Single bar with steps	Double flat bar	Flat bar as single bar
Busbar supports:	Order No.	Order No.	Order No.	Order No.
Supplements:	8GK9750-0KK01	8GF5760/61	8GK9750-0KK02	8GF5762/63
Lateral crossbar (one for each busbar support)	8GK6850-0KK01	8GK6850-0KK01	8GK6850-0KK01	8GK6850-0KK01

ALPHA AS 800 UNIVERSAL Distribution Boards

Busbar systems

Technical specifications

Maximum distance between busbar supports, depending on conditional rated short-circuit current I_{CCeff}

Busbar size	Single bars				Double bars		Flat bar, vertical, for sides		Flat bar, horizontal, top	
	15 × 5	20 × 5	30 × 5	30 × 10	2 × 20 × 10	2 × 30 × 10	2 × 20 × 10	2 × 30 × 10	2 × 20 × 10	2 × 30 × 10
Rated current A	160	250	400	630	630	800	630	800	630	800
Distance between busbar supports										
• at I_{CC} rms = 5 kA mm	600	--	--	--	--	--	--	--	--	--
• at I_{CC} rms = 10 kA mm	400	600	700	600	--	--	--	--	--	--
• at I_{CC} rms = 15 kA mm	--	400	450	400	--	--	--	--	--	--
• at I_{CC} rms = 20 kA mm	--	--	325	300	--	--	--	--	--	--
• at I_{CC} rms = 25 kA mm	--	--	300	250	200	200	400	600	400	600
• at I_{CC} rms = 35 kA mm	--	--	--	--	--	--	400	400	400	400

Configuration options

Version	Width	Busbar supports			Crossbars for installation of support
		Size 15 × 5 / 20 × 5 / 30 × 5 mm	Size 30 × 10 Order No.	Size 2 × 20 × 10 / 2 × 30 × 10 Order No.	
Horizontal installation of busbars					
Horizontal flat bars, at front	600	8GF5762	8GF5763	--	8GF9652
	900	8GF5762	8GF5763	--	8GF9653
Horizontal front bar, at front, with steps	600	8GF5760	--	--	8GK9920-0KK35
	900	8GF5760	--	--	8GK9920-0KK36
Horizontal front bar, flat bar, recessed	600	8GF5760	8GK9608-1KK22	--	8GF9652
	900	8GF5760	8GK9608-1KK22	--	8GF9653
Main busbars					
Horizontal, top	200	--	--	8GK9750-0KK02	8GK6850-0KK00
Horizontal top bar, suspended holder	200	--	--	8PQ4000-1BA12	--
Vertical installation, vertical rear bar					
Busbar support with clearance of 150 mm	300	8GF5762	8GF5763	--	--
	600	8GF5762	8GF5763	--	--
	900	8GF5762	8GF5763	--	--
Busbar support with clearance of 475 mm or 775 mm	600	8GF5764	8GF5765	--	--
	900	8GF5766	8GF5767	--	--
Vertical rear bar, recessed	600	8GF5764	8GF5765	--	--
	900	8GF5766	8GF5767	--	--
Vertical side bar, with steps	--	8GF5760	8GF5761	8GK9750-0KK01	8GK6850-0KK01
Vertical side flat bar	--	8GF5768	8GF5770	8GK9750-0KK02	8GK6850-0KK01

ALPHA AS 800 UNIVERSAL Distribution Boards

Busbar systems

Selection and ordering data

Busbar supports, size 15 x 5 / 20 x 5 / 30 x 5 mm

Version	Dimensions B=Width H=Height mm	Busbar supports			Crossbars for installation of support				
		DT	Order No.	PS*/ P. unit	Weight	DT	Order No.	PS*/ P. unit	Weight
Horizontal installation of busbars									
Horizontal flat bars, at front	B600	8GF5762	1 unit	0.500	8GF9652	1 set	1.300		
	B900	8GF5762	1 unit	0.500	8GF9653	1 set	1.800		
Horizontal front bar, at front, with steps	B600	8GF5760	1 unit	0.600	8GK9920-0KK35	1 set	0.800		
	B900	8GF5760	1 unit	0.600	8GK9920-0KK36	1 set	1.300		
Horizontal front bar, flat bar, recessed	B600	8GF5760	1 unit	0.600	8GF9652	1 set	1.300		
	B900	8GF5760	1 unit	0.600	8GF9653	1 set	1.800		
Main busbars									
Horizontal, top	H200	--			8GK6850-0KK00	2 units	0.400		
Horizontal top bar, suspended holder	H200	--			--				
Vertical installation, vertical rear bar									
Busbar support with clearance of 150 mm	B300	8GF5762	1 unit	0.500	--				
	B600	8GF5762	1 unit	0.500	--				
	B900	8GF5762	1 unit	0.500	--				
Busbar support with clearance of 475 mm or 775 mm	B600	8GF5764	1 unit	1.000	--				
	B900	8GF5766	1 unit	1.200	--				
Vertical rear bar, recessed	B600	8GF5764	1 unit	1.000	--				
	B900	8GF5766	1 unit	1.200	--				
Vertical side bar, with steps	--	8GF5760	1 unit	0.600	8GK6850-0KK01	2 units	0.400		
Vertical side flat bar	--	8GF5768	1 unit	1.000	8GK6850-0KK01	2 units	0.400		

Busbar support, size 30 x 10 mm

Version	Dimensions B=Width H=Height mm	Busbar supports			Crossbars for installation of support/				
		DT	Order No.	PS*/ P. unit	Weight	DT	Order No.	PS*/ P. unit	Weight
Horizontal installation of busbars									
Horizontal flat bars, at front	B600	8GF5763	1 unit	0.500	8GF9652	1 set	1.300		
	B900	8GF5763	1 unit	0.500	8GF9653	1 set	1.800		
Horizontal front bar, flat bar, recessed	B600	8GK9608-1KK22	4 units	1.400	8GF9652	1 set	1.300		
	B900	8GK9608-1KK22	4 units	1.400	8GF9653	1 set	1.800		
Vertical installation, vertical rear bar									
Busbar support with clearance of 150 mm	B300	8GF5763	1 unit	0.500	--				
	B600	8GF5763	1 unit	0.500	--				
	B900	8GF5763	1 unit	0.500	--				
Busbar support with clearance of 475 mm or 775 mm	B600	8GF5765	1 unit	1.000	--				
	B900	8GF5767	1 unit	1.200	--				
Vertical rear bar, recessed	B600	8GF5765	1 unit	1.000	--				
	B900	8GF5767	1 unit	1.200	--				
Vertical side bar, with steps	--	8GF5761	1 unit	0.600	8GK6850-0KK01	2 units	0.400		
Vertical side flat bar	--	8GF5770	1 unit	1.000	8GK6850-0KK01	2 units	0.400		

Busbar support, size 2 x 20 x 10 / 2 x 30 x 10 mm for double bars

Version	Height mm	Busbar supports			Crossbars for installation of support				
		DT	Order No.	PS*/ P. unit	Weight	DT	Order No.	PS*/ P. unit	Weight
Main busbars									
Horizontal, top	200	8GK9750-0KK02	1 unit	2.000	8GK6850-0KK00	2 units	0.400		
Horizontal top bar, suspended holder	200	8PQ4000-1BA12	1 unit	0.560	--				
Vertical installation, vertical rear bar									
Vertical side bar, with steps	--	8GK9750-0KK01	1 unit	2.000	8GK6850-0KK01	2 units	0.400		
Vertical side flat bar	--	8GK9750-0KK02	1 unit	2.000	8GK6850-0KK01	2 units	0.400		

* You can order this quantity or a multiple thereof.

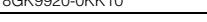
ALPHA AS 800 UNIVERSAL Distribution Boards

Set of copper busbars and connection accessories

Overview

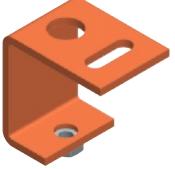
- Solid busbars, thickness: 5 mm and 10 mm, perforated and with thread for junction with screw, nut and washers.
- Flexible bars, length: 2000 mm or 1300 mm, for the connection of molded case circuit breakers, and rigid bars.

Selection and ordering data

Version	DT	Order No.	PS*/ P. unit	Weight kg
Copper busbars and accessories				
 8GF5771	Length mm	Cross-section mm	Mounting	
1300	15 x 5 20 x 5 30 x 5 30 x 10	Threaded hole Threaded hole Threaded hole Drill hole	8GF5771 8GF5772 8GF5773 8GF5774	1 unit 0.900 1 unit 1.160 1 unit 1.740 1 unit 3.500
2000	15 x 5 20 x 5 20 x 10 30 x 5 30 x 10 30 x 10	Threaded hole Threaded hole Undrilled Threaded hole Drill hole Undrilled	8GF5751 8GF5737 8PQ4000-0BA84 8GF5742 8GF5752 8PQ4000-0BA86	1 unit 1.200 1 unit 1.500 1 unit 3.584 1 unit 2.000 1 unit 4.700 1 unit 5.376
Set of screws/bolts for slotted bars				
 8GF5891	Outer thread	Cross-section mm	Clamping force Nm	
M6	15 x 5 20 x 5 30 x 5	8 8 8	8GF5891	1 set 0.600
M8	30 x 10	20	8GF5892	1 set 1.100
Copper grounding bar				
 8GK9920-0KK10	Width mm	Cross-section mm	Mounting	
600	20 x 5	Drill hole	8GK9920-0KK10	1 set 0.500
900	20 x 5	Drill hole	8GK9920-0KK13	1 unit 0.800
Copper terminals with flexible, PVC-insulated strips for molded case circuit breakers, length 2000 mm				
 8GF5680	Load A	Cross-section mm	Δt °C	
160	13 x 6 x 0.5	20	8GF5680	1 unit 1.000
250	20 x 5 x 1	20	8GF5681	1 unit 2.000
400	32 x 5 x 1	20	8GF5682	1 unit 5.000
630	40 x 8 x 1	20	8GF5683	1 unit 7.500
160	13 x 3 x 0.5	40	8GF5686	1 unit 0.500
250	16 x 4 x 0.8	40	8GF5687	1 unit 1.000
400	24 x 4 x 1	40	8GF5688	1 unit 2.500
630	40 x 5 x 1	40	8GF5690	1 unit 5.000
Note				
In situations where there is less clearance (higher short-circuit strength acc. to table), use 8GF9652 (width 600 mm) and 8GF9653 (width 900 mm) holders.				

ALPHA AS 800 UNIVERSAL Distribution Boards

Set of copper busbars and connection accessories

Version	DT	Order No.	PS*/ P. unit	Weight kg
Connecting kit for double bars				
Version	Load A			
 8GK9790-0KK00	Connecting kit for upper horizontal bars - vertical busbars.	800	8GK9790-0KK00	1 unit 2.000
 8GK9790-0KK01	Connecting kit for upper horizontal busbars	800	8GK9790-0KK01	1 unit 3.000
Holder for grounding bar				
 8GK9750-0KK00			8GK9750-0KK00	2 units 0.220
Transparent cover For horizontal busbars, at front				
Width mm				
600			8GK9920-0KK37	1 unit 1.000
900			8GK9920-0KK38	1 unit 1.500

Assembly Kits / Accessories for ALPHA UNIVERSAL Distribution Boards

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5/2	Assembly kit for 3VL molded case circuit breakers and 3KA switch disconnectors
5/6	Assembly kit for 3VT molded case circuit breakers
5/7	Covers and holders
5/9	Assembly kit for modular installation devices
5/10	Mounting plates and inner sub-distribution boards
5/11	SIKclip wiring systems
5/12	Holders for terminal strips and locking systems
5/14	Accessories

5

More technical product information:

Service&Support portal:
[www.siemens.com/lowvoltage/
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- Product list:
Technical specifications
- Entry list:
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Manuals / Operating instructions /
Characteristic curves / Certificates

Assembly Kits / Accessories for ALPHA UNIVERSAL Distrib. Boards

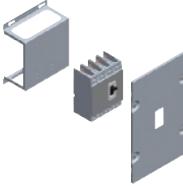
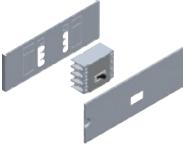
Assembly kit for 3VL molded case circuit breakers and 3KA switch disconnectors

Overview

- Quick-assembly kits for molded case circuit breakers from the VL range and disconnectors from the 3KA range. Each assembly kit comprises:
 - Mounting plate with mounting slots for quick and easy installation.
 - Cover with cutout and quick-lock screws, no need for no masking frame
 - Accessories for mounting supports.

- New assembly kits for 3VL800 switchgear, for installation in the new ALPHA AS.
- All covers are fitted with new quick-lock screws. The new screws are equipped with a segment that ensures grounding, i.e. no further ground connections are required.

Selection and ordering data

	Description	Vertical installation				Horizontal installation				Order No.	PS*/ P. unit	Weight kg
		Height mm	Max. No. of switch- ing deve- ices	DT	Order No.	Height mm	Max. No. of switch- ing deve- ices	DT				
VL molded case circuit breakers												
8GK6710-4KK23	 3/4-pole, width 600 mm <ul style="list-style-type: none">• VL160X - VL160 - VL250, max. 250 A• VL160X - VL160 - VL250 with direct rotary operating mechanism	400	1 ... 3	--	8GK6710-4KK23	1 unit	5.000	200	1	8GK6710-2KK23	1 unit	2.500
8GK6711-2KK23	 <ul style="list-style-type: none">• VL160X with residual current operated circuit breaker mounted underneath• VL160X with interconnected residual current operated circuit breaker• VL160-250 with residual current operated circuit breaker mounted underneath• VL400, max. 400 A• VL400 with residual current operated circuit breaker mounted underneath• VL630, max. 630 A• VL800, max. 800 A (for ALPHA AS only)	600	1 ... 3	--	8GK6710-6KK23	1 unit	7.500	200	1	8GK6711-2KK23	1 unit	2.500
		300	1	--	8GK6710-3KK23	1 unit	3.750	--	--	8GK6712-2KK23	1 unit	2.500
		600	1 ... 3	--	8GK6711-6KK23	1 unit	7.500	200	1	8GK6713-2KK23	1 unit	2.500
		600	1	--	8GK6712-6KK23	1 unit	7.500	200	1	8GK6714-2KK23	1 unit	2.700
		600	1	--	8GK6713-6KK23	1 unit	7.500	200	1	8GK6715-2KK23	1 unit	2.700
		600	1	--	8GK6714-6KK23	1 unit	7.500	400	1	8GK6715-4KK23	1 unit	5.000
		600	1	--	8GK6700-6KK24	1 unit	7.500	--	--			

Assembly Kits / Accessories for ALPHA UNIVERSAL Distrib. Boards

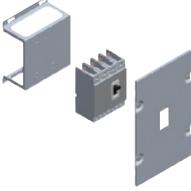
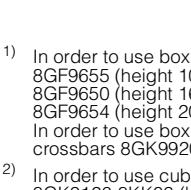
Assembly kit for 3VL molded case circuit breakers and 3KA switch disconnectors

Description	Vertical installation					Horizontal installation						
	Height mm	Max. No. of switching devices	DT	Order No.	PS*/ P. unit	Weight kg	Height mm	Max. No. of switching devices	DT	Order No.	PS*/ P. unit	Weight kg
3/4-pole, width 900 mm												
• VL160X - VL160 - VL250, max. 250 A	400	from 1 to 5		8GK6710-4KK33	1 unit	9.000	200	1		8GK6710-2KK33	1 unit	4.000
• VL160X - VL160 - VL250 with direct rotary operating mechanism			--				200	1		8GK6701-2KK33	1 unit	4.000
• VL160X with residual current operated circuit breaker mounted underneath	600	from 1 to 5		8GK6710-6KK33	1 unit	9.200	200	1		8GK6704-2KK33	1 unit	4.000
• VL160X with interconnected residual current operated circuit breaker	300	1		8GK6710-3KK33	1 unit	6.500			--			
• VL160-250 with residual current operated circuit breaker mounted underneath	600	from 1 to 5		8GK6711-6KK33	1 unit	9.200	200	1		8GK6705-2KK33	1 unit	4.000
• VL400, max. 400 A	600	from 1 to 2		8GK6712-6KK33	1 unit	9.200	200	1		8GK6706-2KK33	1 unit	4.400
• VL400 with residual current operated circuit breaker mounted underneath	600	from 1 to 2		8GK6713-6KK33	1 unit	9.200	200	1		8GK6707-2KK33	1 unit	4.400
• VL630, max. 630 A	600	1		8GK6714-6KK33	1 unit	9.200	400	1		8GK6715-4KK33	1 unit	7.000
• VL800, max. 800 A (for ALPHA AS only)	600	1		8GK6700-6KK34	1 unit	9.200			--			

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Assembly Kits / Accessories for ALPHA UNIVERSAL Distrib. Boards

Assembly kit for 3VL molded case circuit breakers and 3KA switch disconnectors

	Description	Vertical installation					Horizontal installation					
		Height mm	Max. No. of switching devices	DT	Order No.	PS*/ P. unit	Weight kg	Height mm	Max. No. of switching devices	DT	Order No.	PS*/ P. unit
3VL molded case circuit breakers in width												
	3/4-pole, width 250 mm¹⁾ • VL160X - VL160 - VL250, max. 250 A • VL400, max. 400 A • VL630, max. 630 A	400	1		8GK6710-4KK13	1 unit	2.500	--	--	--		
	• VL160X with residual current operated circuit breaker mounted underneath • VL160-250 with residual current operated circuit breaker mounted underneath • VL400 with residual current operated circuit breaker mounted underneath	600	1		8GK6711-2KK13	1 unit	3.500	--	--	--		
		600	1		8GK6712-4KK13	1 unit	3.500	--	--	--		
		600	1		8GK6712-6KK13	1 unit	3.500	--	--	--		
3/4-pole, width 300 mm²⁾												
	• VL160X - VL160 - VL250, max. 250 A	400	1		8GK6711-4KK13	1 unit	2.500	200	1 ³⁾	8GK6711-2KK13	1 unit	1.400
	• VL400, max. 400 A	600	1		8GK6723-6KK13	1 unit	4.000	--	--	--		
	• VL630, max. 630 A	600	1		8GK6724-6KK13	1 unit	4.000	--	--	--		
	• VL160X with residual current operated circuit breaker mounted underneath	400	1		8GK6725-4KK13	1 unit	2.500	--	--	--		
	• VL160-250 with residual current operated circuit breaker mounted underneath	400	1		8GK6726-4KK13	1 unit	2.500	--	--	--		
	• VL400 with residual current operated circuit breaker mounted underneath	600	1		8GK6727-6KK13	1 unit	4.000	--	--	--		

¹⁾ In order to use box width 250 mm in the ALPHA 630 as a switchgear compartment, you require the following bars:
8GF9655 (height 1000 mm), 8GF9656 (height 1200 mm),
8GF9650 (height 1600 mm), 8GF9658 (height 1800 mm),
8GF9654 (height 2000 mm).

In order to use box width 250 mm in the ALPHA AS as a switchgear compartment, you must order side supports and, for each assembly kit, a pair of crossbars 8GK9920-0KK01.

²⁾ In order to use cubicle width 300 mm in the ALPHA 630 as a switchgear compartment, you require the following inner supports:
8GK9126-8KK03 (height 1600 mm),
8GK9126-8KK04 (height 1800 mm),
8GK9126-8KK05 (height 2000 mm).

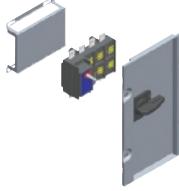
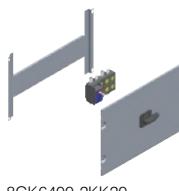
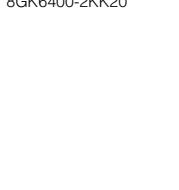
In order to use cubicle width 300 mm in the ALPHA AS as a switchgear compartment, you must order the following side supports:
8GK6850-0KK02 (height 1600 mm),
8GK6850-0KK03 (height 1800 mm) and
8GK6850-0KK04 (height 2000 mm).

³⁾ Only for voltage 415 V AC

* You can order this quantity or a multiple thereof.

Assembly Kits / Accessories for ALPHA UNIVERSAL Distrib. Boards

Assembly kit for 3VL molded case circuit breakers and 3KA switch disconnectors

	Description	Vertical installation					Horizontal installation					
		Height mm	Max. No. of switching devices	DT	Order No.	PS*/ P. unit	Weight kg	Height mm	Max. No. of switching devices	DT	Order No.	PS*/ P. unit
3KA7 switch disconnectors in width												
		3/4-pole, width 250 mm¹⁾			8GK6400-4KK10	1 unit	2.500	--	--	--		
		• 3KA7 11 size 1 max. 125 A	400	--	8GK6401-4KK10	1 unit	2.500	--	--	--		
		• 3KA7 12 size 2 max. 250 A	400	--								
		3/4-pole, width 300 mm²⁾			8GK6400-4KK11	1 unit	2.500	--	--	--		
		• 3KA7 11 size 1 max. 125 A	400	--	8GK6401-4KK12	1 unit	2.500	--	--	--		
		• 3KA7 12 size 2 max. 250 A	400	--								
		3/4-pole, width 600 mm			8GK6400-2KK20	1 unit	2.700	--	--	--		
		• 3KA7 11 size 1 max. 125 A ⁴⁾	200	--	8GK6400-4KK20	1 unit	4.900	--	--	--		
		• 3KA7 12 size 2 max. 250 A ⁴⁾	400	--	8GK6401-4KK20	1 unit	4.900	--	--	--		
		• 3KA7 13 size 3 max. 400 A	400	--								
		3/4-pole, width 900 mm			8GK6400-2KK30	1 unit	4.100	--	--	--		
		• 3KA7 11 size 1 max. 125 A ⁴⁾ ⁵⁾	200	--	8GK6400-4KK30	1 unit	7.300	--	--	--		
		• 3KA7 12 size 2 max. 250 A ⁴⁾ ⁵⁾	400	--	8GK6400-4KK31	1 unit	7.300	--	--	--		

¹⁾ In order to use box width 250 mm in the ALPHA 630 as a switchgear compartment, you require the following bars:

8GF9655 (height 1000 mm),
8GF9656 (height 1200 mm),
8GF9650 (height 1600 mm),
8GF9658 (height 1800 mm),
8GF9654 (height 2000 mm).

In order to use box width 250 mm in the ALPHA AS as a switchgear compartment, you must order side supports and, for each assembly kit, a pair of crossbars 8GK9920-0KK01.

²⁾ In order to use cubicle width 300 mm in the ALPHA 630 as a switchgear compartment, you require the following inner supports:

8GK9126-8KK03 (height 1600 mm),
8GK9126-8KK04 (height 1800 mm),
8GK9126-8KK05 (height 2000 mm).

In order to use cubicle width 300 mm in the ALPHA AS as a switchgear compartment, you must order the following side supports:

8GK6850-0KK02 (height 1600 mm),
8GK6850-0KK03 (height 1800 mm) and
8GK6850-0KK04 (height 2000 mm).

³⁾ Only for voltage 415 V AC

⁴⁾ Switch disconnectors with door-coupling rotary operating mechanism with key interlocking, cannot be mounted.

⁵⁾ Plate designed to accommodate 3 disconnectors.

Assembly Kits / Accessories for ALPHA UNIVERSAL Distrib. Boards

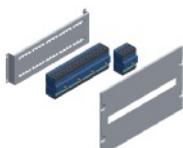
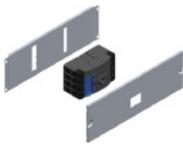
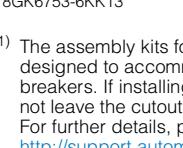
Assembly kit for 3VT molded case circuit breakers

Overview

- Quick-assembly kit for molded case circuit breakers from the 3VT range. Each assembly kit comprises:
 - Mounting plate with mounting slots for quick and easy installation.
 - Cover with cutout and quick-lock screws, no need for no masking frame
 - Accessories for mounting supports.

- All assembly kits are fitted with front connections for permanent installation.
- All covers are fitted with new quick-lock screws. The new screws are equipped with a segment that ensures grounding, i.e. no further ground connections are required.

Selection and ordering data

	3P and 4P molded case circuit breakers	Width mm	Height mm	Installation	Maximum No. of devices that can be installed	DT	Order No.	PS*/ P. unit	Weight kg
VT molded case circuit breakers									
	3VT1¹⁾	600 600 900 900 300 ²⁾ 250 ³⁾	200 400 200 400 400 400	Horizontal Vertical Horizontal Vertical Vertical Vertical	1 5 1 7 2 1		8GK6750-2KK23 8GK6750-4KK23 8GK6750-2KK33 8GK6750-4KK33 8GK6751-4KK13 8GK6750-4KK13	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	2.500 5.000 4.000 9.000 2.500 2.500
									
	3VT2	600 600 900 900 300 ²⁾ 250 ³⁾	200 600 200 600 600 600	Horizontal Vertical Horizontal Vertical Vertical Vertical	1 2 1 3 1 1		8GK6754-2KK23 8GK6752-6KK23 8GK6756-2KK33 8GK6752-6KK33 8GK6753-6KK13 8GK6750-6KK13	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	2.500 7.500 4.000 9.200 4.000 3.000
	3VT3	600 600 900 900 300 ²⁾ 250 ³⁾	400 600 400 600 600 600	Horizontal Vertical Horizontal Vertical Vertical Vertical	1 1 1 1 1 1		8GK6755-4KK23 8GK6754-6KK23 8GK6755-4KK33 8GK6754-6KK33 8GK6754-6KK13 8GK6751-6KK13	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	5.000 7.500 9.000 9.200 4.000 3.000
									

¹⁾ The assembly kits for 3VT1 switchgear have a cover with a cutout and are designed to accommodate the installation of both 3 and 4-pole circuit breakers. If installing 3-pole circuit breakers, we recommend that you do not leave the cutout open but cover it with blanking strip 8GK9910-0KK00. For further details, please refer to the mounting instructions at: <http://support.automation.siemens.com/WW/view/en/53477794/130000>

²⁾ In order to install assembly kits in the cubicles width 300 mm of the ALPHA 630, you must order the following inner supports: 8GK9126-8KK03 (height 1600 mm), 8GK9126-8KK04 (height 1800 mm) and 8GK9126-8KK05 (height 2000 mm). In order to use cubicle width 300 mm in the ALPHA AS as a switchgear compartment, you must order the following side supports: 8GK6850-0KK02 (height 1600 mm), 8GK6850-0KK03 (height 1800 mm) and 8GK6850-0KK04 (height 2000 mm).

³⁾ In order to install assembly kits in the cubicles width 250 mm of the ALPHA 630, you require the following bars: 8GF9655 (height 1000 mm), 8GF9656 (height 1200 mm), 8GF9650 (height 1600 mm), 8GF9658 (height 1800 mm) and 8GF9654 (height 2000 mm). In order to use box width 250 mm in the ALPHA AS as a switchgear compartment, you must order side supports and, for each assembly kit, a pair of crossbars 8GK9920-0KK01.

Assembly Kits / Accessories for ALPHA UNIVERSAL Distrib. Boards

Covers and holders

Overview

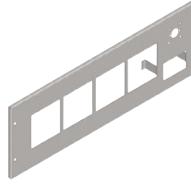
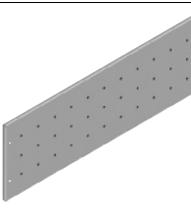
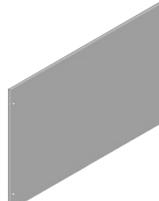
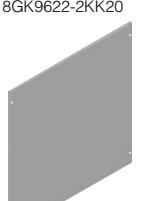
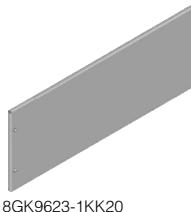
- Various types of front covers: for mounting instruments, pre-equipped for installation of pushbuttons, closed, with vents.
- Covers with new quick-lock screws.
- All covers are fitted with new quick-lock screws. The new screws are equipped with a segment that ensures grounding, i.e. no further ground connections are required.

- Holders for cable ducts or busbar support mounts in horizontal position, at front.
- Bars for mounting busbar supports or vertical terminal strips.

Note:

Due to the fixed width, you need to order part no. 8GK9120-0KK11 (hinges for covers, 10 units) for linking purposes.

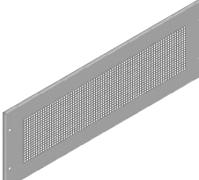
Selection and ordering data

	Version	DT	Vertical installation Order No.	PS*/ P. unit	Weight kg
	Description	Type	Fixed width ¹⁾ mm	Height mm	
8GK9610-1KK20	Covers for mounting measurement instruments 72 x 72	2 instruments + 2 switchovers 4 instruments + 1 switchover	600 900	200 200	8GK9610-1KK20 8GK9610-1KK30 8GK9611-1KK20 8GK9611-1KK30
	Covers for mounting measurement instruments 96 x 96	2 instruments + 2 switchovers 4 instruments + 1 switchover	600 900	200 200	8GK9612-1KK20 8GK9612-1KK30 8GK9613-1KK20 8GK9613-1KK30
	Cover pre-equipped for installation of pushbuttons and lamps	Fixed width mm	Height mm		
8GK9630-1KK20		600 900	200 200	8GK9630-1KK20 8GK9631-1KK20	1 unit 1 unit 1.500 2.000
	Nontransparent covers	Fixed width mm	Height mm		
8GK9622-2KK20		250	400 600 800 1000	8GK9606-2KK10 8GK9606-4KK10 8GK9606-5KK10 8GK9606-7KK10	1 unit 1 unit 1 unit 1 unit 1.200 1.800 2.400 3.000
		300	200 400 600 800 1000	8GK9607-1KK10 8GK9607-2KK10 8GK9607-4KK10 8GK9607-5KK10 8GK9607-7KK10	1 unit 1 unit 1 unit 1 unit 0.600 1.200 1.800 2.500 3.000
8GK9622-4KK20		600	50 100 150 200 400 600 800	8GK9620-1KK20 8GK9621-1KK20 8GK9622-1KK20 8GK9623-1KK20 8GK9622-2KK20 8GK9622-4KK20 8GK9622-5KK20	4 units 4 units 4 units 1 unit 1 unit 1 unit 1 unit 0.400 1.000 1.400 1.500 3.000 4.000 5.500
		900	50 100 150 200 400 600 800	8GK9620-1KK30 8GK9621-1KK30 8GK9622-1KK30 8GK9623-1KK30 8GK9622-2KK30 8GK9622-4KK30 8GK9622-5KK30	1 unit 1 unit 4 units 1 unit 1 unit 1 unit 1 unit 0.600 1.000 2.000 2.500 4.500 5.500 8.000
8GK9623-1KK20					

¹⁾ You need to order part no. 8GK9120-0KK11 (hinges for covers, 10 units) for linking purposes: see page 5/14.

Assembly Kits / Accessories for ALPHA UNIVERSAL Distrib. Boards

Covers and holders

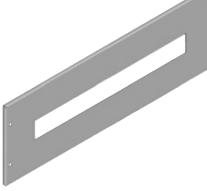
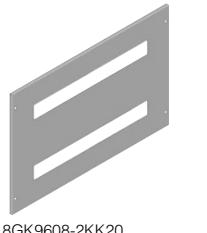
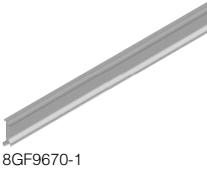
	Version	Fixed width ¹⁾ mm	Height mm	DT	Vertical installation Order No.	PS*/ P. unit	Weight kg
	Cover with ventilation openings, IP30	600 900	200 200		8GK9632-1KK20 8GK9633-1KK20	1 unit 1 unit	1.200 2.000
8GK9632-1KK20							
	Recessed cover for electrotechnical use (25 mm)	600 900	800 800		8GK9635-5KK20 8GK9635-5KK30	1 unit 1 unit	8.500 9.300
8GK9636-7KK20							
		600 900	1000 1000		8GK9636-7KK20 8GK9636-7KK30	1 unit 1 unit	10.700 12.900
	Holders for horizontal cable ducts/busbars (pair)	600 900	-- --		8GF9652 8GF9653	1 set 1 set	1.300 1.800
8GF9652							
	Horizontal crossbars with steps (pair)	600 900	-- --		8GK9920-0KK35 8GK9920-0KK36	1 set 1 set	0.800 1.300
8GK9920-0KK35							
	Pair of guides for: • ALPHA 630 vertical/busbar support, with steps • Vertical side terminal strip (not suitable for use in ALPHA AS)	-- -- -- -- --	1000 1200 1600 1800 2000		8GF9655 8GF9656 8GF9650 8GF9658 8GF9654	1 set 1 set 1 set 1 set 1 set	1.800 2.200 2.800 3.200 3.500
8GF9655							
	Inner crossbars for using cubicle B 300 as a switchgear compartment in ALPHA 630 (not suitable for use in ALPHA AS)	-- -- --	1600 1800 2000		8GK9126-8KK03 8GK9126-8KK04 8GK9126-8KK05	1 set 1 set 1 set	5.600 6.300 7.200
8GK9126-8KK03							

¹⁾ You need to order part no. 8GK9120-0KK11 (hinges for covers, 10 units) for linking purposes: [see page 5/14](#).

Assembly Kits / Accessories for ALPHA UNIVERSAL Distrib. Boards

Assembly kit for modular installation devices

Selection and ordering data

Version	External dimensions Height mm	Width ¹⁾ mm	Tiers/MW	DT	Order No.	PS*/ P. unit	Weight kg
 8GK9608-1KK20	150	600	1/24		8GK9608-1KK22	4 units	1.400
		900	1/36		8GK9608-1KK32	4 units	1.500
	200	600	1/24		8GK9608-1KK20	1 unit	1.000
		900	1/36		8GK9608-1KK30	1 unit	1.800
	300	600	2/48		8GK9608-2KK22	4 units	2.500
		900	2/72		8GK9608-2KK32	4 units	3.000
	400	600	2/48		8GK9608-2KK20	1 unit	2.000
		900	2/72		8GK9608-2KK30	1 unit	3.600
	450	600	3/72		8GK9608-3KK22	1 unit	3.000
	600	600	3/72		8GK9608-4KK20	1 unit	3.000
		900	3/108		8GK9608-4KK30	1 unit	5.400
 8GK9608-2KK20	150	600	1/24		8GK6302-1KK23	1 unit	1.600
		900	1/36		8GK6302-1KK33	1 unit	2.000
	200	300	1/12		8GK6352-2KK13	1 unit	1.900
		600	1/24		8GK6352-2KK23	1 unit	1.900
		900	1/36		8GK6352-2KK33	1 unit	2.400
	8GK6302-1KK23						
	 8GF9670		--		8GF9670	1 unit	0.800
					8GF9671	1 unit	1.000
	 8GF9670-1		--	600	8GF9670-1	1 unit	0.100

¹⁾ You need to order part no. 8GK9120-0KK11 (hinges for covers, 10 units) for linking purposes: [see page 5/14](#).

²⁾ To link BETA modular installation devices with 3VT molded case circuit breakers, two adapters are required.

Assembly Kits / Accessories for ALPHA UNIVERSAL Distrib. Boards

Mounting plates and inner sub-distribution boards

Selection and ordering data

	Version	External dimensions		DT	Order No.	PS*/ P. unit	Weight kg
		Height mm	Width mm				
8GF7155	Mounting plates Modular mounting plates (ALPHA AS: for mounting on side supports or the base of the cabinet)	200	600		8GF7155	1 unit	2.000
			900		8GF7158	1 unit	3.000
		400	600		8GF7156	1 unit	3.500
			900		8GF7160	1 unit	6.000
		600	600		8GF7157	1 unit	5.500
			900		8GF7161	1 unit	8.500
	Recessed modular mounting plates (ALPHA AS: for mounting on two rear supports or on the rear panel of the cabinet with one rear support)	200	600		8GF9676	1 unit	2.200
			900		8GF9680	1 unit	3.300
		400	600		8GF9677	1 unit	3.800
			900		8GF9681	1 unit	5.900
		600	600		8GF9678	1 unit	5.600
			900		8GF9682	1 unit	8.600
8GK9535-4KK21	2 mm mounting plates for electrotechnical use with height and width of the cabinet (ALPHA AS: plates that are not as high as the cabinet can be mounted using side supports and holders 8GF9652/3)	600	600		8GK9535-4KK21	1 unit	6.000
		800	600		8GK9535-5KK21	1 unit	8.000
		1000	600		8GK9536-7KK21	1 unit	10.000
			900		8GK9536-7KK31	1 unit	15.000
		1200	600		8GK9537-8KK21	1 unit	12.000
			900		8GK9537-8KK31	1 unit	16.000
		1600	600		8GK9535-8KK23	1 unit	16.000
			900		8GK9535-8KK26	1 unit	24.000
		1800	600		8GK9535-8KK24	1 unit	18.000
			900		8GK9535-8KK34	1 unit	27.000
		2000	600		8GK9535-8KK25	1 unit	20.000
			900		8GK9535-8KK35	1 unit	30.000
8GK9525-5KK03	Partitions Horizontal partitions ¹⁾	--	250				
		--	300		8GK9525-0KK03	1 unit	0.550
		--	600		8GK9525-0KK13	1 unit	0.550
		--	900		8GK9525-0KK23	1 unit	1.100
	Vertical partitions ¹⁾	800	600		8GK9525-5KK03	1 unit	1.700
		1000	600		8GK9525-6KK03	1 unit	2.100
		1200	600		8GK9525-7KK03	1 unit	2.500
		1600	600		8GK9525-8KK03	1 unit	3.300
		1800	600		8GK9525-8KK13	1 unit	3.700
		2000	600		8GK9525-8KK23	1 unit	4.100
	Partitions for ALPHA AS UNIVERSAL cabinets in form 2b						
		1600	600		8GK9526-0KK00	1 unit	4.500
		1800	600		8GK9526-0KK01	1 unit	5.000
		2000	600		8GK9526-0KK02	1 unit	5.500
		--	300		8GK9526-0KK06	1 unit	1.800
		--	600		8GK9526-0KK07	1 unit	3.300
		--	900		8GK9526-0KK08	1 unit	4.800
		--	250		8GK9527-0KK05	1 unit	1.000
		--	300		8GK9526-0KK03	1 unit	1.000
		--	600		8GK9526-0KK04	1 unit	1.800
		--	900		8GK9526-0KK05	1 unit	2.600
	Transparent cover, for installation in front of the upper horizontal main busbars ²⁾³⁾	--	250		8GK9527-0KK03	1 unit	0.400
		--	300		8GK9527-0KK00	1 unit	0.400
		--	600		8GK9527-0KK01	1 unit	0.700
		--	900		8GK9527-0KK02	1 unit	1.100

¹⁾ These partitions cannot be installed in ALPHA AS UNIVERSAL models

²⁾ These partitions cannot be installed in ALPHA 630 UNIVERSAL models

³⁾ In the case of upper busbars, the transparent covers must be installed in front of the busbars in order to ensure form 2b. The transparent covers are installed underneath the closed covers.

Assembly Kits / Accessories for ALPHA UNIVERSAL Distrib. Boards

SIKclip wiring systems

Overview

SIKclip is a fast wiring system that simplifies the connection of flush-mounting switches:

- for direct mounting on the rear vertical copper busbar system
- Mounting via brackets on the rear of the TH 35 standard mounting rail

The 4-pole busbar can handle loads up to 250 A, and each individual contact up to 63 A.

The fact that each contact is locked individually ensures a high level of safety.

SIKclip is made of thermoplastic resin acc. to IEC 60439-3 and suitable for high thermal loads.

Technical specifications

SST2 5..		
Test specifications		EN 60947-1, EN 60439-3
Degree of protection		IP20
Max. rated current I_n	A	250 at 40 °C ambient temperature
Max. rated output current I_n	A	63 A at 40 °C ambient temperature
Rated operational voltage U_n	V AC	400
Rated insulation voltage	V AC	660
Test voltage	kV	2.5, 50 Hz
Connecting cables		40 A (6 mm ²), 63 A (10 mm ²)
Connecting cable type		H07VK
Ambient temperature	°C	-5 ... +60

Selection and ordering data

Version	DT	Order No.	PS*/ P. unit	Weight kg
SIKClip busbar				
Length	Number Unit(s)			
12 MW	1	▶ 5ST2520	1 unit	0.772
24 MW	1	▶ 5ST2521	1 unit	1.400
36 MW	1	▶ 5ST2522	1 unit	2.041
Connecting cables with plug				
Length	Conductor cross-section mm ²	Color of insulation	Number Unit(s)	
120 mm	6	Black Blue	10	▶ 5ST2523 ▶ 5ST2524
	10	Black Blue		▶ 5ST2525 ▶ 5ST2526
220 mm	6	Black Blue	10	▶ 5ST2527 ▶ 5ST2528
	10	Black Blue		▶ 5ST2530 ▶ 5ST2531
Crimp plug For connection to cables, 4/6 mm²				
Number Unit(s)				
20			5ST2532	20 units 0.006
Mounting brackets For mounting on the rear of a standard mounting rail (pair)				
			5ST2533	2 units 0.032

Note:

In order to install the SIKclip wiring system in ALPHA AS, you need to install the busbars in a vertical position at the rear, but not

recessed. If the busbars are in a recessed position the cables will not reach the circuit breakers.

Assembly Kits / Accessories for ALPHA UNIVERSAL Distrib. Boards

Holders for terminal strips and locking systems

Selection and ordering data

	Version	DT	Order No.	PS*/ P. unit	Weight kg
8GF9672	Holders for terminal strips Versions Holder for horizontal terminal strip, short, for rear mounting (ALPHA AS: for installation on rear universal supports)	Width mm 600 900	Height mm -- --	8GF9672 8GF9674	1 unit 1 unit 0.400 0.600
8GF9675	Holder for horizontal terminal strip, long, for front mounting (ALPHA AS: for mounting on side supports or the base of the cabinet)	600 900	-- --	8GF9673 8GF9675	1 unit 1 unit 0.500 0.700
8GF7175	Holder for vertical terminal strip with 3 and 5 guides L = 165 mm (ALPHA AS: for mounting on side supports or the base of the cabinet)	600 900	200 --	8GF7175 8GF7178	1 set 1 set 1.000 2.000
8GF7176	Holder for vertical terminal strip with 3 and 5 guides L = 365 mm (ALPHA AS: for mounting on side supports or the base of the cabinet)	600 900	400 400	8GF7176 8GF7180	1 set 1 set 1.500 2.000
8GF9683	Holder for vertical terminal strip in side compartment L = 900 mm (ALPHA AS: each holder must be mounted on a lateral crossbar)	600/900	--	8GF9683	1 unit 0.700
8WA746	Angular mounting bracket for horizontal terminals (ALPHA AS: for mounting on side supports or the base of the cabinet)	600/900		8WA746	10 units 0.055
8GK9920-0KK28	Angular assembly kit for holders of vertical terminal strips in wiring compartment (4 units) (cannot be installed in ALPHA AS)	600/900		8GK9920-0KK28	1 set 1.200
8GK9560-0KK04	Locking systems for wall-mounted distribution boards Espagnolette lock as standard, made of plastic, black, for wall-mounted distribution boards, IP43 (replacement part)	600/900		8GK9560-0KK04	1 unit 0.300
8GK9560-0KK05	Additional assembly kit for espagnolette lock, standard, IP55	600/900		8GK9560-0KK05	1 set 0.050

* You can order this quantity or a multiple thereof.

Assembly Kits / Accessories for ALPHA UNIVERSAL Distrib. Boards

Holders for terminal strips and locking systems

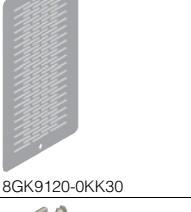
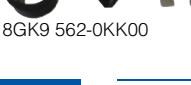
Version	Width mm	DT	Order No.	PS*/ P. unit	Weight kg
 8GK9560-0KK06	Espagnolette lock for wall-mounted distribution boards, IP43 and IP55, semicylinder insert possible for E012	600/900	8GK9560-0KK06	1 unit	0.300
 8GK9560-0KK07	E012 profile semicylinder, insert and key	600/900	8GK9560-0KK07	1 unit	0.300
 8GK9561-0KK01	Locking systems for floor-mounted distribution boards Espagnolette lock with pushbutton (replacement part)	600/900	8GK9561-0KK01	1 unit	0.300
 8GK9561-0KK02	Insert for profile semicylinder with key	600/900	8GK9561-0KK02	1 unit	0.150
 8GK9561-0KK00	Profile semicylinder 40 mm with E012 lock, only for use with espagnolette lock (must be ordered together with insert 8GK9561-0KK02)	600/900	8GK9561-0KK00	1 unit	0.150

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Assembly Kits / Accessories for ALPHA UNIVERSAL Distrib. Boards

Accessories

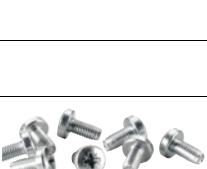
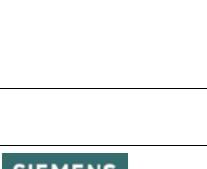
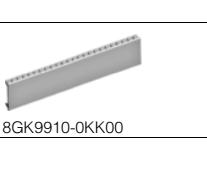
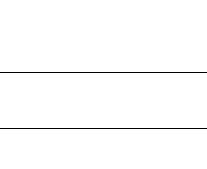
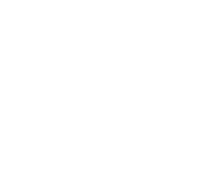
Selection and ordering data

	Version	DT	Order No.	PS*/ P. unit	Weight kg
	Assembly kit for mounting flat pack cabinets for self-assembly, IP43				
8GK9126-3KK00	Height mm				
400			8GK9126-3KK00	1 unit	0.700
600			8GK9126-4KK00	1 unit	1.000
800			8GK9126-5KK00	1 unit	1.300
1000			8GK9126-6KK00	1 unit	1.600
1200			8GK9126-7KK00	1 unit	1.900
1600			8GK9126-8KK00	1 unit	3.200
1800			8GK9126-8KK01	1 unit	3.600
2000			8GK9126-8KK02	1 unit	4.000
	Z-shaped crossbar for lifting the flat pack for self-assembly				
8GK9127-0KK01	Height mm				
600			8GK9127-0KK01	1 set	2.500
900			8GK9127-0KK02	1 set	3.500
1200			8GK9127-0KK03	1 set	4.500
1500			8GK9127-0KK04	1 set	5.500
1800			8GK9127-0KK05	1 set	6.600
	Z-shaped crossbar for mounting and vertical linking of wall-mounted distribution boards				
8GK9920-0KK43	Height mm				
1200			8GK9920-0KK43	1 unit	5.600
1400			8GK9920-0KK44	1 unit	6.400
1600			8GK9920-0KK45	1 unit	7.200
1800			8GK9920-0KK46	1 unit	8.000
	Cover flange plate for flat pack floor-mounted distribution boards (optional)				
8GK9120-0KK10	Height mm				
300			8GK9120-0KK10	1 unit	1.000
600			8GK9120-0KK20	1 unit	2.000
	Ventilation grilles - side panels (4 units)		8GK9120-0KK30	4 units	0.500
8GK9120-0KK30					
	Replacement hinges for doors for wall/floor-mounted distribution boards (2 units)		8GK9920-0KK24	1 set	0.200
8GK9920-0KK24					
	Hinges for front covers (10 units)		8GK9120-0KK11	10 units	0.040
8GK9120-0KK11					
	New quick-lock screws for ALPHA cabinets		8GK9562-0KK00	20 units	0.010
8GK9 562-0KK00					

* You can order this quantity or a multiple thereof.

Assembly Kits / Accessories for ALPHA UNIVERSAL Distrib. Boards

Accessories

Version	DT	Order No.	PS*/ P. unit	Weight kg
		8PQ9400-0BA17	1/20 units	0.160
		8GK9920-0KK31	1 unit	0.500
		8GF9662	1 set	0.500
		8GF9643	1 set	0.500
		8GF9660	1 set	0.300
		8GD9290	1 unit	0.055
		8GF9661	1 unit	0.100
		8GD9084	1 unit	0.020
		8GD9132	1 unit	0.250
		8GF9861	1 set	0.200
		8GK9910-0KK00	10 units	0.030
		8GK9910-0KK01	1 unit	0.500
		8GK9920-0KK26	1 set	0.500
		8GK9920-0KK32	1 unit	0.150
		8GK9920-0KK33	1 set	0.100
		8GK9920-0KK27	1 set	0.010

Assembly Kits / Accessories for ALPHA UNIVERSAL Distrib. Boards

Notes

5

ALPHA 8HP Molded-Plastic Distribution Systems

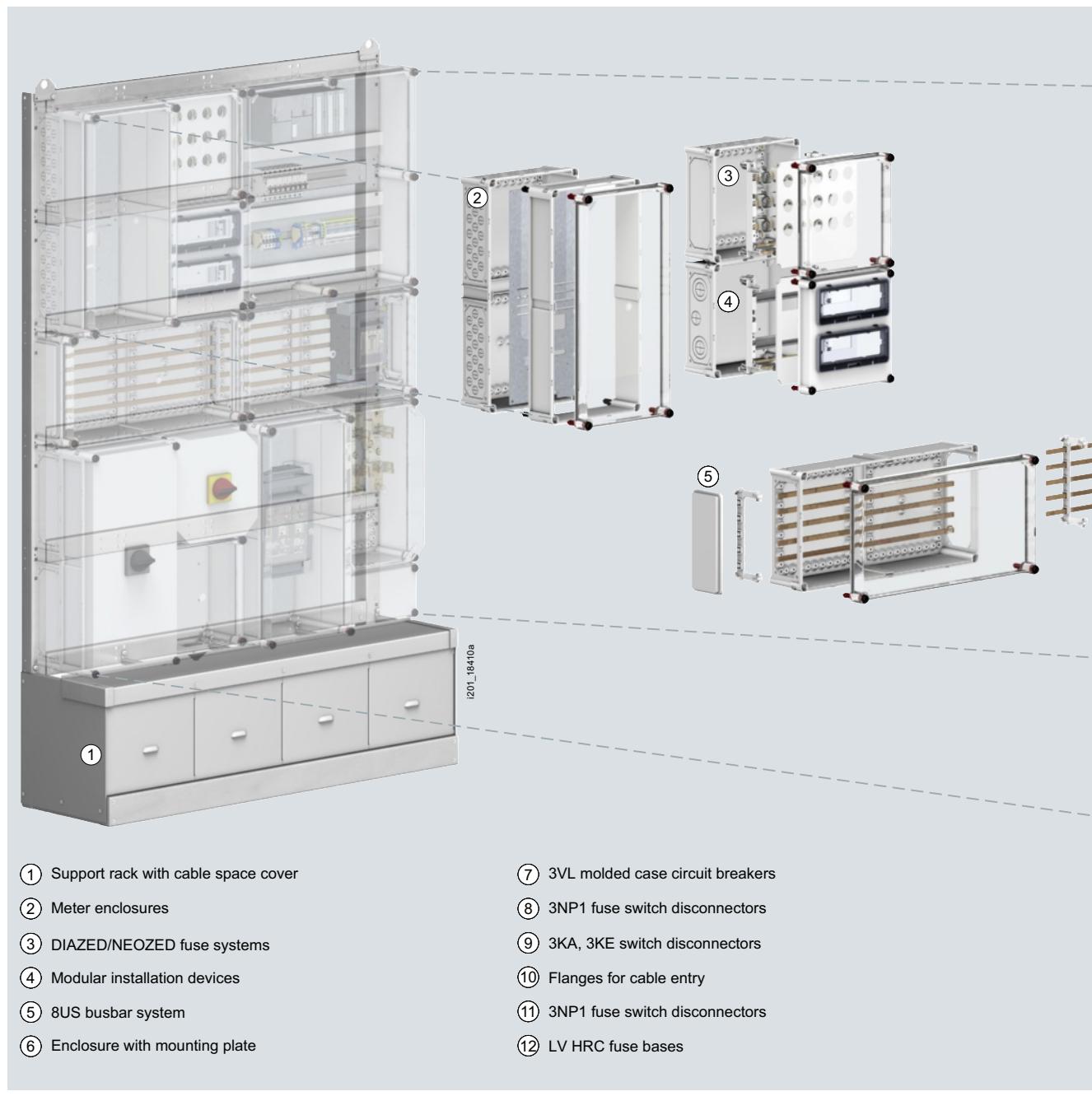


6/2	Introduction
6/8	Distribution systems
6/11	Empty enclosures
6/14	Modular installation devices
6/17	DAZED/NEOZED fuse systems
6/19	3NP1 fuse switch disconnectors <small>NEW</small>
6/21	LV HRC fuse bases
6/23	Meter enclosures
6/25	3KA, 3KE switch disconnectors
6/26	3KL switch disconnectors with fuses
6/28	Changeover switches and parallel switches
6/28	3VL molded case circuit breakers
6/30	Busbar assembly kits
6/17	Busbar supports
6/34	3NP1 fuse switch disconnectors <small>NEW</small>
6/34	Terminals
6/36	Accessories
6/39	Accessories for enclosures
6/41	Terminals for mounting plate assembly
6/42	Wall mounting
6/43	Tools and aids
6/43	Support rack
6/48	Dimensional drawings
6/50	Single enclosures, knockouts
6/51	Enclosures with switching devices
6/51	Busbar systems
	More technical product information:
	Service&Support portal: www.siemens.com/lowvoltage/technical-support
	→ Product list: Technical specifications
	→ Entry list: Updates / Download / FAQs / Manuals / Operating instructions / Characteristic curves / Certificates

ALPHA 8HP Molded-Plastic Distribution Systems

Introduction

Overview



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

ALPHA 8HP Molded-Plastic Distribution Systems

Introduction

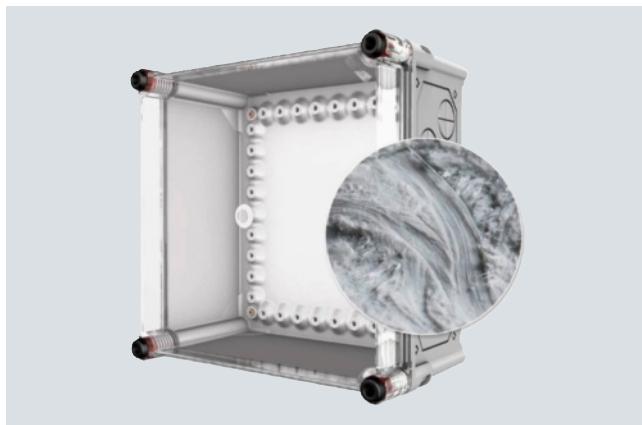


ALPHA 8HP Molded-Plastic Distribution Systems

Introduction

Benefits

All enclosures and the nontransparent 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
- Halogen-free (except for support rack cover)

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" \(Catalogs, Manuals, Product Data Sheets and Tools\).](#)

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

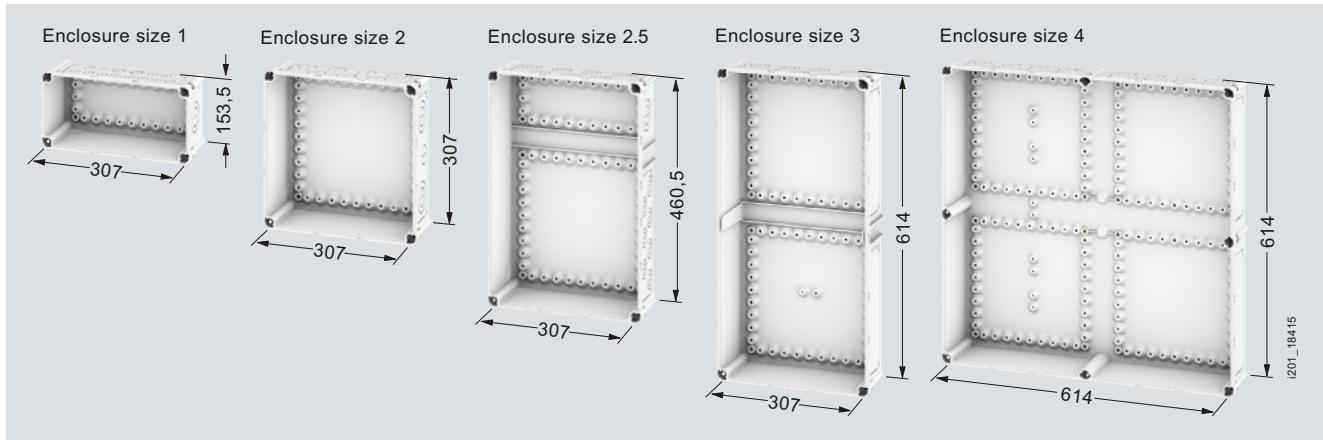
ALPHA 8HP Molded-Plastic Distribution Systems

Introduction

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.



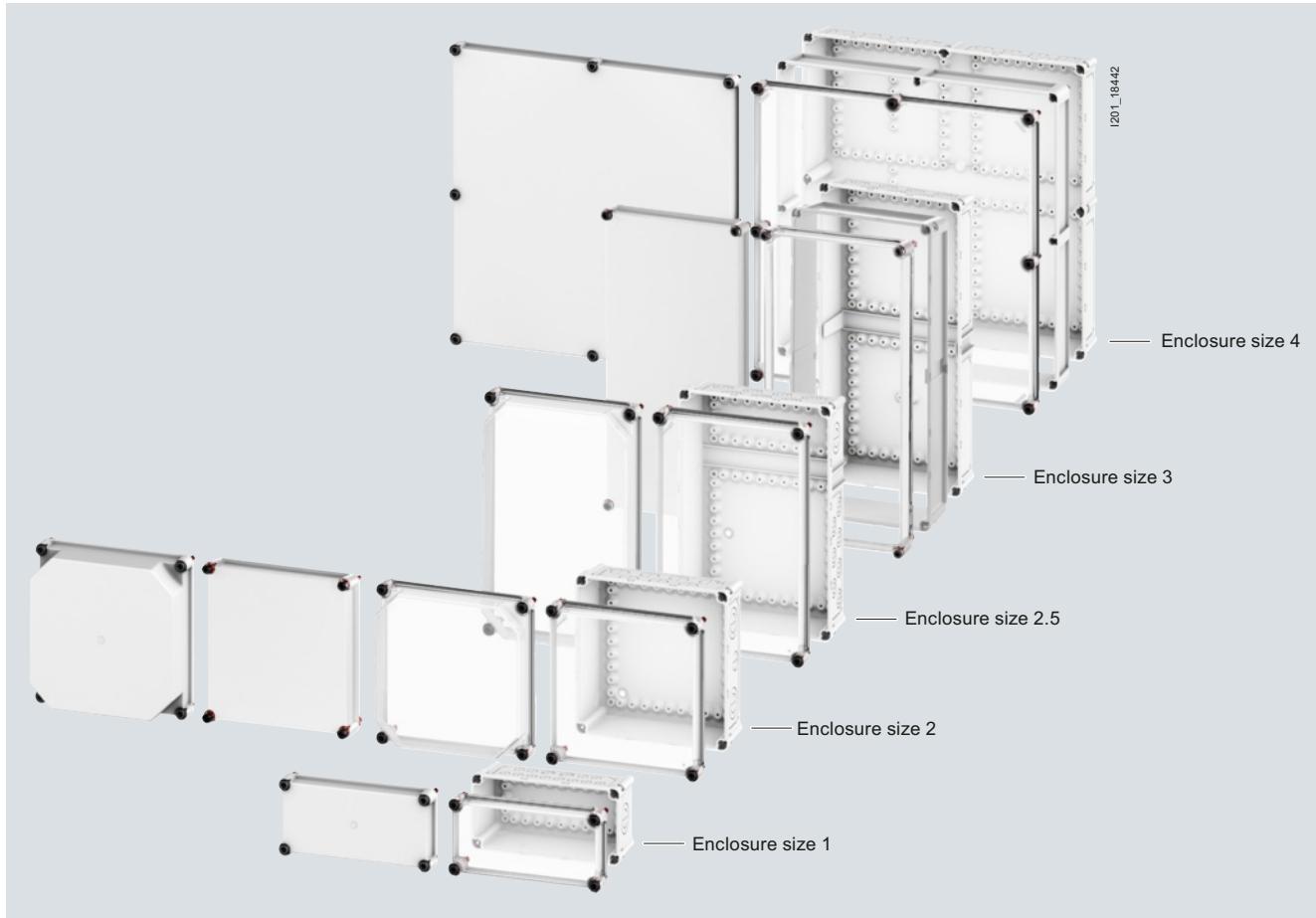
The covers are available in nontransparent or transparent versions and have quick-acting locks for tool actuation. These can be replaced with locks for manual actuation.

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

	A	Rated current	250	400	630	1000
Busbars						
• Bar dimensions						
- Main conductor L1, L2, L3	mm	12 x 5	20 x 8	2 x 20 x 8	2 x 30 x 10	
- N and PE bar	mm	12 x 5	20 x 8	20 x 8	30 x 10	
• Infeed						
- Single-ended	A	250	400	630	1000	
- Centered	A	400	800	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)	kA	10	20	30	40	
- 307 mm I_{pk}	kA	40	70	70	80	
- 614 mm I_{cw} (1 s)	kA	10	20	30	30	
- 614 mm I_{pk}	kA	40	70	70	60	
Rated current						
• Built-in devices	A	up to 800				
• Infeed	A	up to 1000				
Rated insulation voltage U_i	V	1000 AC, 1200 DC				
Molded plastic group I		600 ≤ CTI				
Acc. to EN 60664-1		For the installed devices, the specifications listed in the catalogs are applicable				
Rated impulse withstand voltage/pollution degree		8 kV/3				
Minimum air clearances	mm	8				
Minimum creepage distances	mm	12.5				
Degree of protection acc. to EN 60529		IP65 (8HP1 520 cable entry plate with additional measures)				
Color						
• Enclosure parts		RAL 7035, light gray				
• Cable space cover		RAL 7035, light gray				
• Transparent cover		Colorless				
Ambient temperature	°C	-40 ... +55				
Characteristics						
	Test according to	Enclosure base part	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	BH2 < 10 mm	BH2 < 30 mm	BH2 < 30 mm		
• 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	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		

ALPHA 8HP Molded-Plastic Distribution Systems

Introduction

Certification

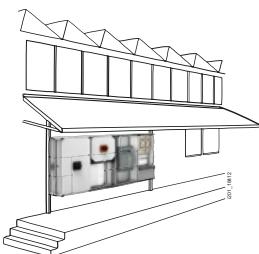
Standards	Description
DIN VDE 0660-500 (EN 60439-1)	Low-voltage switchgear and controlgear assemblies; Part 1: Type-tested and partially type-tested assemblies (TTA)
DIN VDE 0110-1 (EN 60664-1)	Insulation coordination for equipment within low-voltage systems; Part 1: Principles, requirements and tests. Includes specifications for rating the creepage distances and clearances of electrical equipment
IEC 60439-1	Low-voltage switchgear and controlgear assemblies; Part 1: Type-tested and partially type-tested assemblies (TTA)
DIN VDE 0660-107 (EN 60947-3)	Low-voltage switchgear and controlgear; Part 3: Switches, disconnectors, switch-disconnectors and fuse-combination units
DIN VDE 0100 (similar IEC 60364)	Erection of power installations with rated voltages of up to 1000 V / Electrical installations of buildings
Special tests passed	<ul style="list-style-type: none"> Fire tests for equipment used in mining are performed by the Versuchsgruben 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  АЯ46
UL	Empty enclosures are UL-certified for export to the USA 

Installation conditions

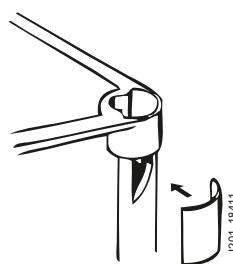
If the operating and ambient conditions differ from the standard conditions according to EN 60439-1, Item 6.1, appropriate measures must be taken to protect and maintain the operating capability of the switchgear assembly for "Special operating and ambient conditions" according to Item 6.2 (e.g. mechanical 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.	<ul style="list-style-type: none"> Mechanical protection: <ul style="list-style-type: none"> Protected installation Protective cover Protective cabinet Corner covering Protection against condensed water <ul style="list-style-type: none"> Ventilation Indoor heating Breather glands
Outdoor	An open-air climate is an environment that affects objects in the open air	



Protected installation with protective cover



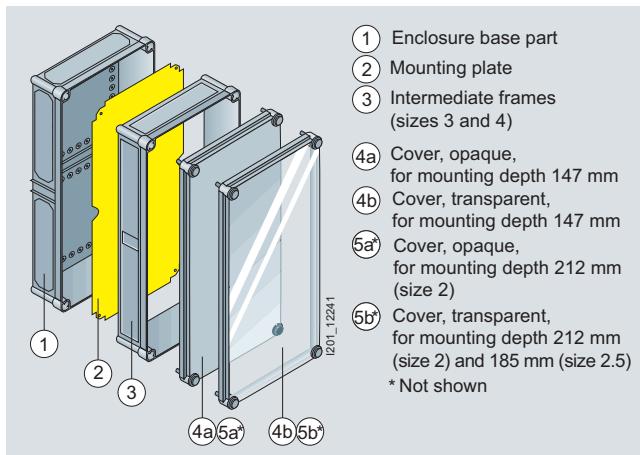
Corner covering

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 6/49.
- 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.
- For dimensions of enclosures, see page 6/48.

6

Enclosure size	Mounting depth	Cover version	Empty enclosure incl. mounting plate	Individual components				Mounting plate
				Type	Image	Type	Image	
1	147 mm	Nontransparent	8HP2001	(1)	8HP1101	(4a)	8HP1201	(2)
		Transparent	8HP2021	(1)	8HP1101	(4b)	8HP1221	(2)
2	147 mm	Nontransparent	8HP2002	(1)	8HP1102	(4a)	8HP1202	(2)
		Transparent	8HP2022	(1)	8HP1102	(4b)	8HP1222	(2)
2.5	212 mm	Nontransparent	8HP2012	(1)	8HP1102	(5a)	8HP1212	(2)
		Transparent	8HP2032	(1)	8HP1102	(5b)	8HP1232	(2)
2.5	147 mm	Transparent	8HP2027	(1)	8HP1107	(4b)	8HP1227	(2)
		Transparent	8HP2047	(1)	8HP1107	(5b)	8HP1247	(2)
3	147 mm	Nontransparent	8HP2003	(1)	8HP1103	(4a)	8HP1203	(2)
		Transparent	8HP2023	(1)	8HP1103	(4b)	8HP1223	(2)
	239.5 mm ¹⁾	Nontransparent	--	(1)	8HP1103	(4a) (3)	8HP1203+ 8HP1283	(2)
		Transparent	--	(1)	8HP1103	(4a) (3)	8HP1223+ 8HP1283	(2)
4	147 mm	Nontransparent	8HP2004	(1)	8HP1104	(4a)	8HP1204	(2)
		Transparent	8HP2024	(1)	8HP1104	(4b)	8HP1224	(2)
	239.5 mm ¹⁾	Nontransparent	--	(1)	8HP1104	(4a) (3)	8HP1204+ 8HP1284	(2)
		Transparent	--	(1)	8HP1104	(4a) (3)	8HP224+ 8HP1284	(2)

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

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Empty enclosures

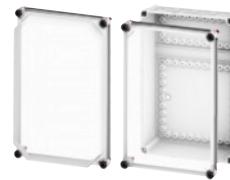
Selection and ordering data

	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG	
Complete enclosures							
Empty enclosure, incl. mounting plate							
Versions	Enclosure size	Length mm	Width mm	Depth mm			
• Transparent cover	1 2 2 deep 2.5 2.5 deep 3 4	307 307 307 307 307 307 614	153.5 167 307.0 232 460.5 460.6 614.0 614.0	167 167 167 205 167 167 167	8HP2021 8HP2022 8HP2032 8HP2027 8HP2047 8HP2023 8HP2024	1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 046
8HP2022	• Cover, nontransparent	1 2 2 deep 3 4	307 307 307 307 614	153.5 167 307.0 232 614.0 614.0	8HP2001 8HP2002 8HP2012 8HP2003 8HP2004	1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 046
8HP2002							

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Empty enclosures

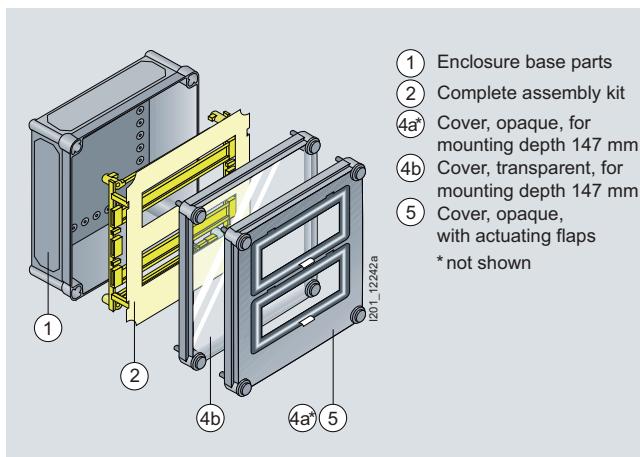
	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Individual components						
	Versions	Length mm	Width mm	Depth mm		
Enclosure size 1						
		Enclosure base part	307	153.5	127	8HP1101
		Transparent cover		40		8HP1221
		Cover, nontransparent		40		8HP1201
		Mounting plate (metal)		--		8HP6301
Enclosure size 2						
		Enclosure base part	307	307	127	8HP1102
		Transparent cover		40		8HP1222
		Transparent cover, deep		105		8HP1232
		Cover, nontransparent		40		8HP1202
		Cover, nontransparent, deep		105		8HP1212
		Mounting plate (metal)		--		8HP6302
Enclosure size 2.5						
		Enclosure base part	307	460.5	127	8HP1107
		Transparent cover		40		8HP1227
		Transparent cover, deep		78		8HP1247
		Mounting plate (metal)		--		8HP6307
Enclosure size 3						
		Enclosure base part	307	614	127	8HP1103
		Intermediate frame		92.5		8HP1283
		Transparent cover		40		8HP1223
		Cover, nontransparent		40		8HP1203
		Mounting plate (metal)		--		8HP6303
Enclosure size 4						
		Enclosure base part	614	614	127	8HP1104
		Intermediate frame		92.5		8HP1284
		Transparent cover		40		8HP1224
		Cover, nontransparent		40		8HP1204
		Mounting plate (metal)		--		8HP6304

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 neutral busbar 6 × 6 mm, each with 1 incoming terminal, 16 mm² for size 1 and 35 mm² for sizes 2 - 3.
- Nontransparent cover available with and without actuating flap
- Tier spacing = 125 mm
- Each tier can be expanded to 14 MW (except for versions with actuating flaps due to accessibility).

Enclosure size	Equipping options Tiers × MW	Cover version	Complete enclosures		Individual components	
			Type	Image	Type	Type
1	1 × 12	Nontransparent	8HP2511	(1) (2) (4a)	8HP1101 8HP5531 8HP1201	
		Transparent	8HP2501	(1) (2) (4b)	8HP1101 8HP5531 8HP1221	
		Nontransparent, with one actuating flap	8HP2521	(1) (2) (5)	8HP1101 8HP5531 8HP1331	
2	2 × 12	Nontransparent	8HP2542	(1) (2) (4a)	8HP1102 8HP5532 8HP1202	
		Transparent	8HP2532	(1) (2) (4b)	8HP1102 8HP5532 8HP1222	
		Nontransparent, with 2 actuating flaps	8HP2552	(1) (2) (5)	8HP1102 8HP5532 8HP1352	
2.5	3 × 12	Transparent	8HP2523	(1) (2) (4b)	8HP1107 8HP5533 8HP1227	
		Nontransparent	8HP2544	(1) (2) (4a)	8HP1103 8HP5534 8HP1203	
		Transparent	8HP2534	(1) (2) (4b)	8HP1103 8HP5534 8HP1223	
3	4 × 12	Nontransparent, with 4 actuating flaps	8HP2554	(1) (2) (5)	8HP1103 8HP5534 8HP1354	

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Modular installation devices

Selection and ordering data

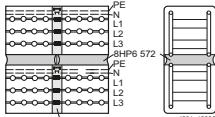
	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Complete enclosures						
Enclosures, for modular installation devices Tiers can be expanded to 14 MW, with the exception of versions with actuating flaps						
Versions	Enclosure size	Tiers x MW				
• Transparent cover	1 2 2.5 3	1 x 12 MW 2 x 12 MW 3 x 12 MW 4 x 12 MW	8HP2501 8HP2532 8HP2523 8HP2534	1 1 1 1	1 unit 1 unit 1 unit 1 unit	046 046 046 046
8HP2532						
• Cover, nontransparent	1 2 3	1 x 12 MW 2 x 12 MW 4 x 12 MW	8HP2511 8HP2542 8HP2544	1 1 1	1 unit 1 unit 1 unit	046 046 046
8HP2542						
• Cover, nontransparent, with actuating flaps	1 2 3	1 x 12 MW 2 x 12 MW 4 x 12 MW	8HP2521 8HP2552 8HP2554	1 1 1	1 unit 1 unit 1 unit	046 046 046
8HP2552						
Individual components						
Complete assembly kits, including cover plates						
Enclosure size						
1			8HP5531	1	1 unit	046
2			8HP5532	1	1 unit	046
2.5			8HP5533	1	1 unit	046
3			8HP5534	1	1 unit	046
8HP5532						
Cover plates, single						
Enclosure size						
1			8HP6581	1	1 unit	046
2			8HP6582	1	1 unit	046
2.5			8HP6583	1	1 unit	046
3			8HP6584	1	1 unit	046
8HP6582						
Guide pins • 1 set = 4 units • Already included in the assembly kits and complete models • For snapping the assembly kits into the enclosure			8HP6600	1	1 unit	046
8HP6600						
Cover, nontransparent, with actuating flaps						
Enclosure size		Number of actuating flaps				
1		1	8HP1331	1	1 unit	046
2		1	8HP1351	1	1 unit	046
		2	8HP1352	1	1 unit	046
3		3	8HP1353	1	1 unit	046
		4	8HP1354	1	1 unit	046
8HP1351						
Actuating flaps • Degree of protection IP65 • 12 modular widths • Lockable, with padlock, 6 mm			8HP1440	1	1 unit	046
8HP1440						

* You can order this quantity or a multiple thereof.

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Modular installation devices

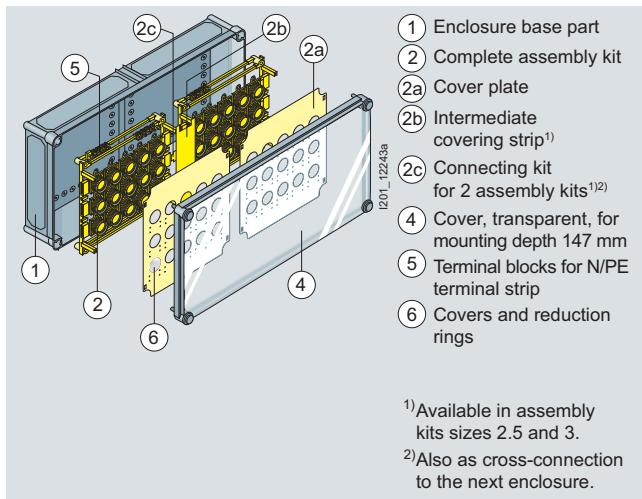
Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Accessories					
 8HP657..	Covering strips, 285 mm long • For multiple installation of assembly kits with cover plates for covering the intermediate spaces • These are essential when using cover locks with manual operation	8HP6571	1	1 unit	046
	Versions • Vertical • Horizontal	8HP6572	1	1 unit	046
Incoming and outgoing terminals, for bars 6 mm x 6 mm Suitable for N/PE bars					
 8WA28..	Conductor cross-section in mm ² (solid or stranded)	8WA2867	1	50 units	041
	• 4	8WA2868	1	50 units	041
	• 25	8WA2870	1	50 units	041
 8GB4671	• 35	8JH4112	1	10 units	046
	• 2.5 ... 16 (can be retrofitted without dismantling the busbar)				
Blanking strips • 12 MW wide • Color gray • Knockouts enable easy cutting to required length • With increased flame protection up to 850°C					
		8GB4671	1	10 units	032

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

DIAZED/NEOZED fuse systems

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 6/34](#)
- For fuse links see [Catalog LV 10.1, Chapter 5](#).
- 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.

6

Enclosure size	Size and number of DIAZED or NEOZED fuses	Incoming cable, solid or stranded Main conductor PE N mm ²	Complete enclosures Type	Individual components Image	Type
DIAZED fuse enclosures					
1	2 x 3 x 25 A	E27	3 x 16 1 x 16 1 x 16	8HP2122	① ② ④
	2 x 3 x 63 A	E33	3 x 16 1 x 16 1 x 16	8HP2131	① ② ④
	5 x 3 x 25 A	E27	3 x 35 1 x 35 1 x 35	8HP2125	① ② ④
2	4 x 3 x 63 A	E33	3 x 35 1 x 35 1 x 35	8HP2133	① ② ④
	10 x 3 x 25 A	E27	2 x 3 x 35 1 x 35 1 x 35	8HP2130	① ② ④
	8 x 3 x 63 A	E33	2 x 3 x 35 1 x 35 1 x 35	8HP2137	① ② ④
NEOZED fuse enclosures					
2	8 x 3 x 63 A	D02	3 x 50 1 x 35 1 x 35	8HP2157	① ② ④

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

DIAZED/NEOZED fuse systems

Selection and ordering data

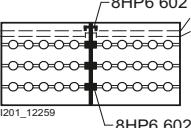
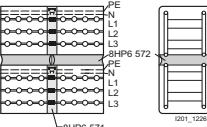
	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG			
Complete enclosures									
	DIAZED fuse enclosures	Versions	Size	Enclosure size	Equipping options				
8HP2125									
	25 A	E27	1 2 3	2 x 3 x 25 A 5 x 3 x 25 A 10 x 3 x 25 A	8HP2122 8HP2125 8HP2130	1 1 1	1 unit 1 unit 1 unit	046	
	63 A	E33	1 2 3	2 x 3 x 63 A 4 x 3 x 63 A 8 x 3 x 63 A	8HP2131 8HP2133 8HP2137	1 1 1	1 unit 1 unit 1 unit	046	
	NEOZED fuse enclosures	Version	Size	Enclosure size	Equipping options				
8HP2157									
	63 A	D02	2	8 x 3 x 63 A	8HP2157	1	1 unit	046	
Individual components									
	Complete assembly kits, including cover plates	Versions	Enclosure size	Size	Equipping options				
8HP5145									
	• For DIAZED fuse enclosures	1 2 3	E27 E33	2 x 3 x 25 A 2 x 3 x 63 A 5 x 3 x 25 A 4 x 3 x 63 A 10 x 3 x 25 A 8 x 3 x 63 A	8HP5142 8HP5162 8HP5145 8HP5164 8HP5150 8HP5167	1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	046	
	• For NEOZED fuse enclosures	2	D02	8 x 3 x 63 A	8HP5157	1	1 unit	046	
	Guide pins	<ul style="list-style-type: none"> • 1 set = 4 units • Already included in the assembly kits and complete models • For snapping the assembly kits into the enclosure 				8HP6600	1	1 unit	046
8HP6600									

* You can order this quantity or a multiple thereof.

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

DAIZED/NEOZED fuse systems

Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Accessories					
	Connecting kits, for 2 DIAZED or NEOZED fuse assembly kits				
<ul style="list-style-type: none"> 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					
<ul style="list-style-type: none"> Assembly kits for 3 busbars 16 x 3 mm (L1, L2, L3) Assembly kits for N/PE bars (2 units required for 5 conductors) 					
	Covering strips, 285 mm long				
<ul style="list-style-type: none"> 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					
<ul style="list-style-type: none"> Vertical Horizontal 					
	Incoming and outgoing terminals, for bars 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					
10 ... 35					
16 ... 50					
10 ... 70					
	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)					
<ul style="list-style-type: none"> 4 25 35 2.5 ... 16 (can be retrofitted without dismantling the busbar) 					
	Reduction ring				
<ul style="list-style-type: none"> For snapping into cover plates As reduction ring from E33 to E27 					
	Covers				
For snapping into cover plates					
Versions					
<ul style="list-style-type: none"> Blanking plug E27 Blanking plug E33 					

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems



3NP1 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 fuse switch 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						
2	000	160 ²⁾	130 120 115	1 × 3NP1123-1CA20 2 × 3NP1123-1CA20 3 × 3NP1123-1CA20	Box terminal	8HP2450 8HP2451 8HP2452
	00	160	148 108	1 × 3NP1133-1CA10 2 × 3NP1133-1CA10	Flat connection	8HP2453 8HP2454
	1 2 3	250 400 630	240 360 480	1 × 3NP1143-1DA10 1 × 3NP1153-1DA10 1 × 3NP1163-1DA10	Flat connection	8HP2455 8HP2456 8HP2457
3						

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.

6

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		
8HP2451	2	000	160 ¹⁾	1 × 3NP1123-1CA20 2 × 3NP1123-1CA20 3 × 3NP1123-1CA20	8HP2450 8HP2451 8HP2452	1 1 unit 046 1 1 unit 046 1 1 unit 046
8HP2453	2	00	160	1 × 3NP1133-1CA10 2 × 3NP1133-1CA10	8HP2453 8HP2454	1 1 unit 046 1 1 unit 046
8HP2457	3	1 2 3	250 400 630	1 × 3NP1143-1DA10 1 × 3NP1153-1DA10 1 × 3NP1163-1DA10	8HP2455 8HP2456 8HP2457	1 1 unit 046 1 1 unit 046 1 1 unit 046

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

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

3NP1 fuse switch disconnectors

NEW

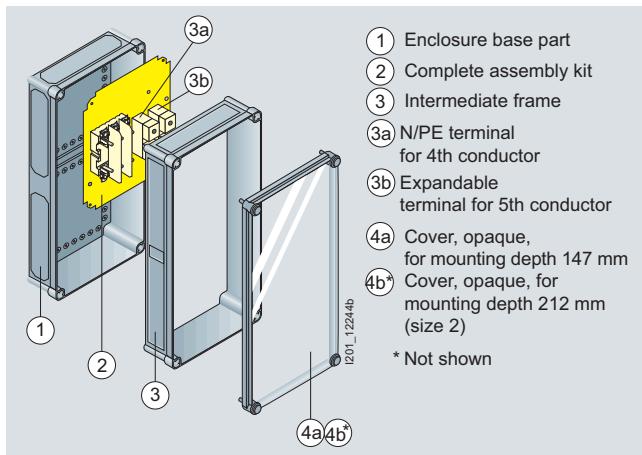
Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Accessories					
	Description	For size			
	Auxiliary switch (CO contact)	000 00 1 ... 3	3NP1920-1FA00 3NP1930-1FA00 3NP1940-1FA00	1 1 1	1 unit 1 unit 1 unit
3NP1920-1FA00					143 143 143
	Locking device • 1 set = 10 units	000 ... 3	3NP1900-1HA00	1	1 unit
3NP1900-1HA00					143
	Feeder terminal, 16 ... 95 mm ² • 1 set = 3 units • For box terminal • To increase the size of the conductor cross-section	000	3NP1923-1BD00	1	1 unit
3NP1923-1BD00					143
	Saddle terminal, single, 1.5 ... 70 mm ² • 1 set = 3 units • For flat connection	00 1 2 3	3NP1933-1BA00 3NP1943-1BA00 3NP1953-1BA00 3NP1963-1BA00	1 1 1 1	1 unit 1 unit 1 unit 1 unit
3NP1933-1BA00					143 143 143 143
	Prism terminal, single, 35 ... 95 mm ² • 1 set = 3 units • For flat connection	00 1 2 3	3NP1933-1BB10 3NP1943-1BB10 3NP1953-1BB10 3NP1963-1BB10	1 1 1 1	1 unit 1 unit 1 unit 1 unit
3NP1933-1BB10					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, Chapter 5.
- For terminal blocks, see 6/39.

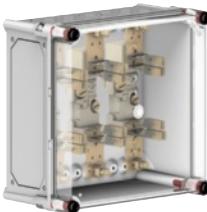
Enclosure size	Rated current I_n	Rated operational current I_e	Equipment			Complete enclosures	Individual components	
			LV HRC fuse base	③a N/PE terminal 4th conductor	③b 5th terminal can be expanded		Type	Image Circuit number
2	160	125	3 × NH00 up to 50 mm ²	8JH404 up to 35 mm ²	✓	8HP2301	① ② ④a	8HP1102 8HP5301 8HP1222
	250	210	3 × NH1 up to 120 mm ²	8JK401 up to 70 mm ²	✓	8HP2311	① ② ④a	8HP1102 8HP5311 8HP1222
	400	300	3 × NH2 up to 185 mm ²	--	--	8HP2312	① ② ④a	8HP1102 8HP5312 8HP1222
	630	470	3 × NH3 2 × 185 mm ²	--	--	8HP2314	① ② ④b	8HP1102 8HP5314 8HP1232
3	400	300	3 × NH2 up to 185 mm ²	8JH404 up to 35 mm ²	✓	8HP2313	① ② ④a	8HP1103 8HP5312 8HP1223
	630	470	3 × NH3 up to 185 mm ²	8JH404 up to 35 mm ²	✓	8HP2315	① ② ③ ④a	8HP1103 8HP5314 8HP1283 8HP1223

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																																																		
 Enclosures, with LV HRC fuse bases <table border="1"> <thead> <tr> <th>Enclosure size</th> <th>LV HRC fuse bases</th> <th>Rated current I_{N} in A</th> <th>Order No.</th> <th>PU (UNIT, SET, M)</th> <th>PS*/ P. unit</th> <th>PG</th> </tr> </thead> <tbody> <tr> <td rowspan="2">2</td> <td>3 × NH00</td> <td>160</td> <td>8HP2301</td> <td>1</td> <td>1 unit</td> <td>046</td> </tr> <tr> <td>3 × NH1</td> <td>250</td> <td>8HP2311</td> <td>1</td> <td>1 unit</td> <td>046</td> </tr> <tr> <td rowspan="2">3</td> <td>3 × NH2</td> <td>400</td> <td>8HP2312</td> <td>1</td> <td>1 unit</td> <td>046</td> </tr> <tr> <td>3 × NH3</td> <td>630</td> <td>8HP2314</td> <td>1</td> <td>1 unit</td> <td>046</td> </tr> <tr> <td rowspan="2">3</td> <td>3 × NH2</td> <td>400</td> <td>8HP2313</td> <td>1</td> <td>1 unit</td> <td>046</td> </tr> <tr> <td>3 × NH3</td> <td>630</td> <td>8HP2315</td> <td>1</td> <td>1 unit</td> <td>046</td> </tr> </tbody> </table>					Enclosure size	LV HRC fuse bases	Rated current I_{N} in A	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG	2	3 × NH00	160	8HP2301	1	1 unit	046	3 × NH1	250	8HP2311	1	1 unit	046	3	3 × NH2	400	8HP2312	1	1 unit	046	3 × NH3	630	8HP2314	1	1 unit	046	3	3 × NH2	400	8HP2313	1	1 unit	046	3 × NH3	630	8HP2315	1	1 unit	046
Enclosure size	LV HRC fuse bases	Rated current I_{N} in A	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG																																												
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 LV HRC fuse bases <table border="1"> <thead> <tr> <th>Enclosure size</th> <th>LV HRC fuse bases</th> <th>Rated current I_{N} in A</th> <th>Order No.</th> <th>PU (UNIT, SET, M)</th> <th>PS*/ P. unit</th> <th>PG</th> </tr> </thead> <tbody> <tr> <td rowspan="2">2</td> <td>3 × NH00</td> <td>160</td> <td>8HP5301</td> <td>1</td> <td>1 unit</td> <td>046</td> </tr> <tr> <td>3 × NH1</td> <td>250</td> <td>8HP5311</td> <td>1</td> <td>1 unit</td> <td>046</td> </tr> <tr> <td rowspan="2">3</td> <td>3 × NH2</td> <td>400</td> <td>8HP5312</td> <td>1</td> <td>1 unit</td> <td>046</td> </tr> <tr> <td>3 × NH3</td> <td>630</td> <td>8HP5314</td> <td>1</td> <td>1 unit</td> <td>046</td> </tr> <tr> <td rowspan="2">3</td> <td>3 × NH2</td> <td>400</td> <td>8HP5312</td> <td>1</td> <td>1 unit</td> <td>046</td> </tr> <tr> <td>3 × NH3</td> <td>630</td> <td>8HP5314</td> <td>1</td> <td>1 unit</td> <td>046</td> </tr> </tbody> </table>					Enclosure size	LV HRC fuse bases	Rated current I_{N} in A	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG	2	3 × NH00	160	8HP5301	1	1 unit	046	3 × NH1	250	8HP5311	1	1 unit	046	3	3 × NH2	400	8HP5312	1	1 unit	046	3 × NH3	630	8HP5314	1	1 unit	046	3	3 × NH2	400	8HP5312	1	1 unit	046	3 × NH3	630	8HP5314	1	1 unit	046
Enclosure size	LV HRC fuse bases	Rated current I_{N} in A	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG																																												
2	3 × NH00	160	8HP5301	1	1 unit	046																																												
	3 × NH1	250	8HP5311	1	1 unit	046																																												
3	3 × NH2	400	8HP5312	1	1 unit	046																																												
	3 × NH3	630	8HP5314	1	1 unit	046																																												
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	3 × NH3	630	8HP5314	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 mm	Complete enclosures (delivery in individual components)	Individual components	
			Designation	Type
2.5	145	8HP2627	Enclosure base part Transparent cover for mounting depth 145 mm ISO meter support plate	8HP1107 8HP1227 8HP6111
	183	8HP2647	Enclosure base part Transparent cover for mounting depth 183 mm ISO meter support plate	8HP1107 8HP1247 8HP6111
3	145	8HP2623	Enclosure base part Transparent cover for mounting depth 145 mm ISO meter support plate	8HP1103 8HP1223 8HP6112
	237	8HP2653	Enclosure base part Transparent cover for mounting depth 145 mm Intermediate frame ISO meter support plate	8HP1103 8HP1223 8HP1283 8HP6112

Selection and ordering data

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

Complete enclosures



8HP2623

Meter enclosures

Enclosure size	Mounting depth in mm			
2.5	145	8HP2627	1	1 unit 046
	183		1	1 unit 046
3	145	8HP2623	1	1 unit 046
	237		1	1 unit 046

Individual components



8HP6112

ISO meter support plates

With meter fixing screws to DIN 46300 and spacer bolts (15 mm)

Versions

- For enclosure size 2.5
- For enclosure sizes 3 and 4

8HP6111	1	1 unit	046
8HP6112	1	1 unit	046

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Meter enclosures

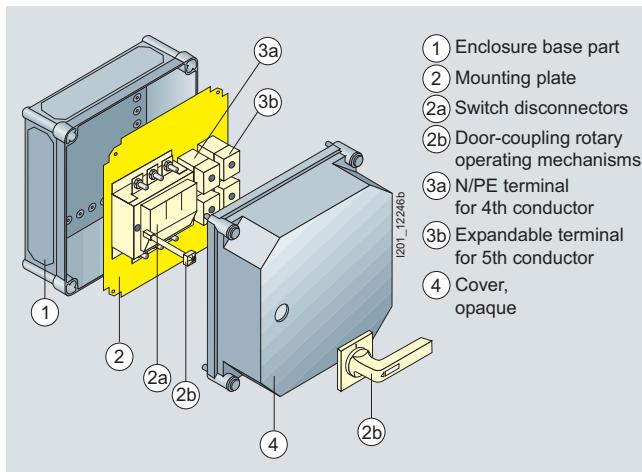
Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Accessories					
 8JH141	Support rail <ul style="list-style-type: none">• For meters• Time switches and timing relays• Mounting length 1 enclosure width = 236 mm	8JH141		1	1 unit 046
	Note Two 8JK1 13 mounting rails are required for installing the support rail in the enclosure				
 8JK113	Mounting rail <ul style="list-style-type: none">• With threaded holes, M4• Mounting length 1 enclosure width = 236 mm• For mounting on enclosure base	8JK113		1	1 unit 046
 8HP1815	Sealing cap <ul style="list-style-type: none">• 1 set = 2 caps• For sealing the quick-release cover locks	8HP1815		1	1 unit 046

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

3KA, 3KE switch disconnectors

Overview



- Enclosures with integrated switch disconnectors as main and EMERGENCY-OFF 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
- For dimensional drawings, see page 6/50
- 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	Rated operational current I_e	Rated breaking capacity	(2b) Version		Height x width x depth ⁽²⁾	Equipment		
				Main switch	EMERGENCY-OFF 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)	8HP2705	8HP2742	307 x 307 x 167	3KA50 up to 35 mm ²	8WA1 205 up to 35 mm ²	✓
	125	125	125 A/690 V (AC-23 A)	8HP2707	8HP2747	307 x 307 x 167	3KA52 up to 70 mm ²	8WA1 206 up to 70 mm ²	✓
	160	160	250 A/660 V (AC-23)	8HP2714	8HP2744	307 x 307 x 232	3KA53 up to 120 mm ²	8WA1 206 up to 70 mm ²	✓
	250	250	800 A/660 V (AC-22)	8HP2732	8HP2752	307 x 307 x 232	3KE42 up to 150 mm ²	8JK4 01 up to 70 mm ²	✓
	400	400	1200 A/660 V (AC-22)	8HP2734	8HP2754	307 x 307 x 232	3KE43 up to 2 x 150 mm ² or 1 x 240 mm ²	8JK4 04 up to 150 mm ²	--
			2400 A/660 V (AC-23)	8HP2716	8HP2746	307 x 307 x 232	3KA57 up to 150 mm ²	--	--
3	160	160	250 A/660 V (AC-23)	8HP2711	8HP2748	307 x 614 x 167	3KA53 up to 120 mm ²	8WA1 206 up to 70 mm ²	✓
	250	250	250 A/690 V (AC-23 A)	8HP2712	8HP2761	307 x 614 x 260	3KA55 up to 150 mm ²	--	--
			800 A/660 V (AC-22)	8HP2733	8HP2753	307 x 614 x 260	3KE42 up to 150 mm ²	8JK4 01 up to 70 mm ²	✓
	400	400	1200 A/660 V (AC-23)	8HP2735	8HP2755	307 x 614 x 260	3KE43 up to 2 x 150 mm ² or 1 x 240 mm ²	8JK404 up to 150 mm ²	--
			2400 A/660 V (AC-23)	8HP2717	8HP2762	307 x 614 x 260	3KA57 up to 150 mm ²	--	--
	630	630	400 A/690 V (AC-23 B)	8HP2718	8HP2763	307 x 614 x 260	3KA58 up to 240 mm ²	--	--
			2500 A/660 V (AC-23)	8HP2736	8HP2756	307 x 614 x 260	3KE44 up to 240 mm ²	8JK4 06 up to 240 mm ²	--
	1000	800 ⁽¹⁾	2500 A/660 V (AC-23)	8HP2738	8HP2758	307 x 614 x 260	3KE45 up to 2 x 240 mm ²	8JK4 06 up to 240 mm ²	--

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

⁽²⁾ Dimensions without operating handle (2b)

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

3KA, 3KE switch disconnectors

Selection and ordering data

Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Complete enclosures					
Main switches					
 8HP2705	Enclosure size	Rated operational current I_e A	Switch disconnectors		
2	63	3KA50	8HP2705	1	1 unit 046
	125	3KA52	8HP2707	1	1 unit 046
	160	3KA53	8HP2714	1	1 unit 046
	250	3KE42	8HP2732	1	1 unit 046
	400	3KA57 3KE43	8HP2716 8HP2734	1 1	1 unit 046 1 unit 046
3	160	3KA53	8HP2711	1	1 unit 046
	250	3KA55 3KE42	8HP2712 8HP2733	1 1	1 unit 046 1 unit 046
	400	3KA57 3KE43	8HP2717 8HP2735	1 1	1 unit 046 1 unit 046
	630	3KA58 3KE44	8HP2718 8HP2736	1 1	1 unit 046 1 unit 046
	800	3KE45	8HP2738	1	1 unit 046
EMERGENCY-OFF switches					
 8HP2742	Enclosure size	Rated operational current I_e A	Switch disconnectors		
2	63	3KA50	8HP2742	1	1 unit 046
	125	3KA52	8HP2747	1	1 unit 046
	160	3KA53	8HP2744	1	1 unit 046
	250	3KE42	8HP2752	1	1 unit 046
	400	3KA57 3KE43	8HP2746 8HP2754	1 1	1 unit 046 1 unit 046
3	160	3KA53	8HP2748	1	1 unit 046
	250	3KA55 3KE42	8HP2761 8HP2753	1 1	1 unit 046 1 unit 046
	400	3KA57 3KE43	8HP2762 8HP2755	1 1	1 unit 046 1 unit 046
	630	3KA58 3KE44	8HP2763 8HP2756	1 1	1 unit 046 1 unit 046
	800	3KE45	8HP2758	1	1 unit 046

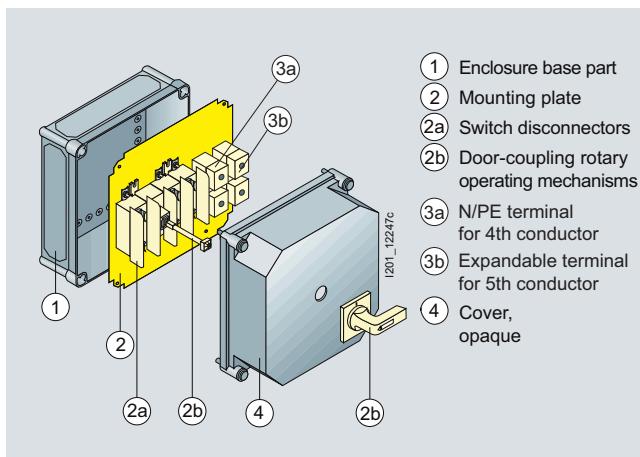
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ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

3KL switch disconnectors with fuses

Overview



- With motor switching capacity and disconnector characteristics, can be used as main and EMERGENCY-OFF 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
- For dimensional drawings, see page 6/50
- 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	Rated operational current I_e	Rated breaking capacity	Version		Equipment			
				Main switch	EMERGENCY-OFF switch	Switch disconnector	Fuse type	N/PE terminal 4th conductor	5th terminal can be expanded
2	A	A	500 A/660 V (AC-23)	8HP2710	8HP2741	3KL50 up to 35 mm ²	NH00	8WA1205 up to 35 mm ²	✓
	63	63	800 A/660 V (AC-23)	8HP2713	8HP2743	3KL52 up to 70 mm ² with M6 cable lug	NH00	8WA1206 up to 35 mm ²	✓
	125	125	2000 A/660 V (AC-23)	8HP2715	8HP2745	3KL55 up to 150 mm ² with M10 cable lug	NH1	8WA1206 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		
Complete enclosures							
Main switches							
8HP2715	Enclosure size	Switch disconnectors	Rated current I_n in A				
	2	3KL50 3KL52 3KL55	63 125 250	8HP2710 8HP2713 8HP2715	1 1 1	1 unit 1 unit 1 unit	046 046 046
EMERGENCY-OFF switches							
8HP2741	Enclosure size	Switch disconnectors	Rated current I_n in A				
	2	3KL50 3KL52 3KL55	63 125 250	8HP2741 8HP2743 8HP2745	1 1 1	1 unit 1 unit 1 unit	046 046 046

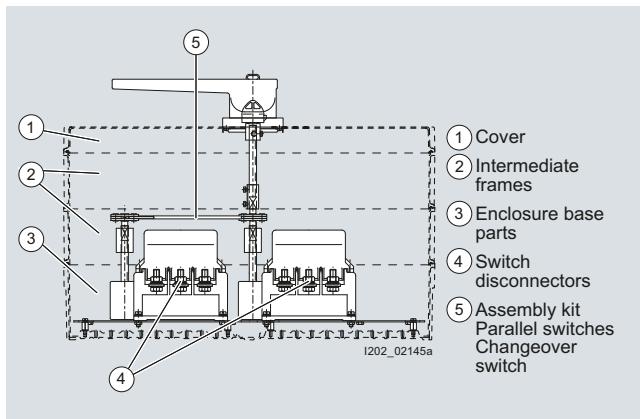
* You can order this quantity or a multiple thereof.

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 6/50.

Assembly kit for changeover switch

Enclosure size	Rated current I_n	Rated operational current I_e	Switch disconnector/ main conductor connection	Individual components	(4) Switch disconnector	(5) Assembly kit	Type
4	A	A		(1) Cover (2) Intermediate frame (3) Base Type	Type		
	250	250	3KE42 1 x 150 mm ²	(1) 8HP1204 (2) 2 x 8HP1284 (3) 8HP1104	2 x 3KE4230-0AA	Changeover operating mechanism • Break-before-make • Make-before-break	8HP5458 8HP5458-Z ¹⁾
	400	400	3KE43 2 x 150 mm ²	(1) 8HP1204 (2) 2 x 8HP1284 (3) 8HP1104	2 x 3KE4330-0AA	Changeover operating mechanism • Break-before-make • Make-before-break	8HP5458 8HP5458-Z ¹⁾
	630	630	3KE44 2 x 240 mm ²	(1) 8HP1204 (2) 2 x 8HP1284 (3) 8HP1104	2 x 3KE4430-0AA	Changeover operating mechanism • Break-before-make • Make-before-break	8HP5458 8HP5458-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	(4) Switch disconnector	(5) Assembly kit	Type
4	A	A		(1) Cover (2) Intermediate frame (3) Base Type	Type		
	500	500	3KE42 1 x 150 mm ²	(1) 8HP1204 (2) 2 x 8HP1284 (3) 8HP1104	2 x 3KE4230-0AA	Shifting linkage for parallel switching	8HP5457
	800	630	3KE43 2 x 150 mm ²	(1) 8HP104 (2) 2 x 8HP1284 (3) 8HP1104	2 x 3KE4330-0AA	Shifting linkage for parallel switching	8HP5457
	1260	1000	3KE44 2 x 240 mm ²	(1) 8HP1204 (2) 2 x 8HP1284 (3) 8HP1104	2 x 3KE4430-0AA	Shifting linkage for parallel switching	8HP5457

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Changover switches and parallel switches

Selection and ordering data

Ordering information

The assembly kit must be ordered in individual components:

- Enclosure base part
- Cover
- 2 x intermediate frames
- 2 x 3KE switch disconnectors
- Changover switch or parallel switch assembly kit

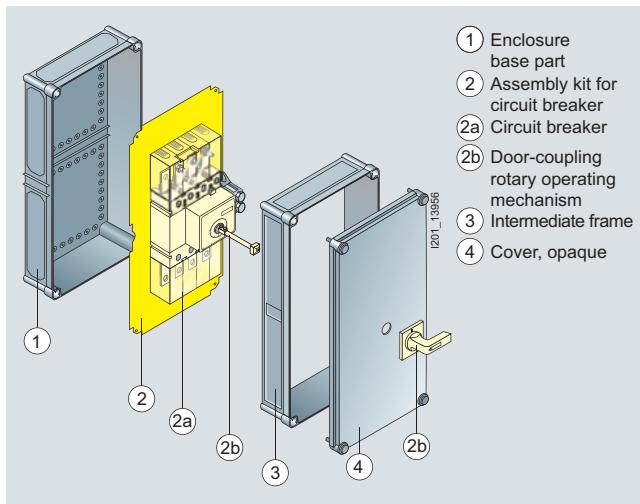
Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Assembly kits for changover and parallel switches					
Versions					
① Cover		8HP1204		1	1 unit 046
② Intermediate frame		8HP1284		1	1 unit 046
③ Enclosure base part		8HP1104		1	1 unit 046
④ Switch disconnectors					
	Changover switches	Parallel switches ¹⁾			
	- 250 A	- 500 A	3KE4230-0AA	1	1 unit 103
	- 400 A	- 800 A	3KE4330-0AA	1	1 unit 103
	- 630 A	- 1260 A	3KE4430-0AA	1	1 unit 103
⑤ Assembly kit					
	- Changover operating mechanism break-before-make		8HP5458	1	1 unit 046
	- Changover operating mechanism make-before-break ²⁾		8HP5458-Z	1	1 unit 046
	- Shifting linkage for parallel switching		8HP5457	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 breaker

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 molded case circuit breakers in size 3 enclosure with intermediate frame
- Cover, nontransparent
- EMERGENCY-OFF operating mechanisms on request.

Mounting instructions

- 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.

6

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: • 8HP2012  Enclosure volume at least 65 dm³	 Mounting example: • 8HP2003 • 8HP1283  Enclosure volume at least 90 dm³	 Mounting example: • 8HP2003 • 8HP1283  Enclosure volume at least 90 dm³	 Mounting example: • 8HP2003 • 8HP1283
100 A	Mounting example: • 8HP2012  Enclosure volume at least 65 dm³	 Mounting example: • 8HP2003 • 8HP1283  Enclosure volume at least 90 dm³	 Mounting example: • 8HP2003 • 8HP1283  Mounting example: • 8HP2004 • 8HP1284 Enclosure volume at least 135 dm³	
160 A	Mounting example: • 8HP2012  Enclosure volume at least 65 dm³	 Mounting example: • 8HP2003 • 8HP1283  Enclosure volume at least 90 dm³	 Mounting example: • 8HP2003 • 8HP1283  Mounting example: • 8HP2004 • 8HP1284 Enclosure volume at least 135 dm³	
250 A	Mounting example: • 8HP2012  Enclosure volume at least 65 dm³	 Mounting example: • 8HP2004 • 8HP1284  Enclosure volume at least 135 dm³	 Mounting example: • 8HP2004 • 8HP1284  Mounting example: • 8HP2003 • 8HP1283 ----- • 8HP2004 • 8HP1284 Enclosure volume at least 180 dm³	

1202 02273

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
8HP2200-1	63	63	3	Thermomagnetic Solid-state	3VL1706-1DA33-0AA0
8HP2200-2			4	Thermomagnetic Solid-state	3VL2706-1SB33-0AA0
8HP2200-3					3VL1706-1EH43-0AA0
8HP2200-4					3VL2706-1TA43-0AA0
8HP2201-1	100	100	3	Thermomagnetic Solid-state	3VL1710-1DA33-0AA0
8HP2201-2			4	Thermomagnetic Solid-state	3VL2710-1SB33-0AA0
8HP2201-3					3VL1710-1EH43-0AA0
8HP2201-4					3VL2710-1TA43-0AA0
8HP2202-1	160	160	3	Thermomagnetic Solid-state	3VL1716-1DA33-0AA0
8HP2202-2			4	Thermomagnetic Solid-state	3VL2716-1SB33-0AA0
8HP2202-3					3VL1716-1EH43-0AA0
8HP2202-4					3VL2716-1TA43-0AA0
8HP2203-1	250	250	3	Thermomagnetic Solid-state	3VL3725-1DC33-0AA0
8HP2203-2			4	Thermomagnetic Solid-state	3VL3725-1SB33-0AA0
8HP2203-3					3VL3725-1EC43-0AA0
8HP2203-4					3VL3725-1TA43-0AA0

Selection and ordering data

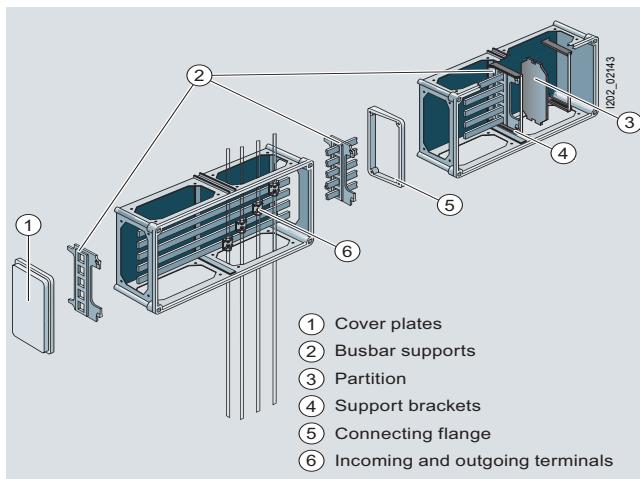
	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG																																																																						
	Enclosure with built-in molded case 3VL circuit breaker																																																																											
8HP2202-3	<ul style="list-style-type: none"> • Size 3 • With intermediate frame • With rotary operating mechanism and terminal cover <table border="1"> <thead> <tr> <th>Type</th> <th>Rated current I_n A</th> <th>Poles</th> <th>Release</th> <th></th> <th></th> <th></th> </tr> </thead> <tbody> <tr> <td rowspan="2">• Without connecting bars</td><td rowspan="2">63</td><td>3</td><td>Thermomagnetic Solid-state</td><td>8HP2200-1</td><td>1</td><td>1 unit 046</td></tr> <tr> <td>4</td><td>Thermomagnetic Solid-state</td><td>8HP2200-2</td><td>1</td><td>1 unit 046</td></tr> <tr> <td rowspan="2"></td><td rowspan="2">100</td><td>3</td><td>Thermomagnetic Solid-state</td><td>8HP2200-3</td><td>1</td><td>1 unit 046</td></tr> <tr> <td>4</td><td>Thermomagnetic Solid-state</td><td>8HP2200-4</td><td>1</td><td>1 unit 046</td></tr> <tr> <td rowspan="2">• With connecting bars</td><td rowspan="2">160</td><td>3</td><td>Thermomagnetic Solid-state</td><td>8HP2201-1</td><td>1</td><td>1 unit 046</td></tr> <tr> <td>4</td><td>Thermomagnetic Solid-state</td><td>8HP2201-2</td><td>1</td><td>1 unit 046</td></tr> <tr> <td rowspan="2"></td><td rowspan="2">250</td><td>3</td><td>Thermomagnetic Solid-state</td><td>8HP2201-3</td><td>1</td><td>1 unit 046</td></tr> <tr> <td>4</td><td>Thermomagnetic Solid-state</td><td>8HP2201-4</td><td>1</td><td>1 unit 046</td></tr> <tr> <td></td><td>Note</td><td></td><td></td><td></td><td></td><td></td></tr> <tr> <td></td><td>Please refer to the table containing information on "Design of the distribution boards" (see page 6/28).</td><td></td><td></td><td></td><td></td><td></td></tr> </tbody> </table>	Type	Rated current I_n A	Poles	Release				• Without connecting bars	63	3	Thermomagnetic Solid-state	8HP2200-1	1	1 unit 046	4	Thermomagnetic Solid-state	8HP2200-2	1	1 unit 046		100	3	Thermomagnetic Solid-state	8HP2200-3	1	1 unit 046	4	Thermomagnetic Solid-state	8HP2200-4	1	1 unit 046	• With connecting bars	160	3	Thermomagnetic Solid-state	8HP2201-1	1	1 unit 046	4	Thermomagnetic Solid-state	8HP2201-2	1	1 unit 046		250	3	Thermomagnetic Solid-state	8HP2201-3	1	1 unit 046	4	Thermomagnetic Solid-state	8HP2201-4	1	1 unit 046		Note							Please refer to the table containing information on "Design of the distribution boards" (see page 6/28).											
Type	Rated current I_n A	Poles	Release																																																																									
• Without connecting bars	63	3	Thermomagnetic Solid-state	8HP2200-1	1	1 unit 046																																																																						
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		4	Thermomagnetic Solid-state	8HP2201-4	1	1 unit 046																																																																						
	Note																																																																											
	Please refer to the table containing information on "Design of the distribution boards" (see page 6/28).																																																																											

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 6/50.

Selection and ordering data

	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG												
8HP1500	<p>① End cover plate Including mounting material</p>		8HP1500		1	1 unit 046												
8HP1701	<p>② Busbar supports, for copper busbars</p> <table border="1"> <thead> <tr> <th>Dimensions</th><th>Rated current of copper busbars (85 °C) A</th><th>Center-to-center clearance L1, L2, L3 mm</th><th></th></tr> </thead> <tbody> <tr> <td>• 12 mm × 5 mm</td><td>250</td><td>40</td><td>8HP1701</td></tr> <tr> <td>• 2 × (12 mm × 5 mm)</td><td>400</td><td></td><td></td></tr> </tbody> </table>	Dimensions	Rated current of copper busbars (85 °C) A	Center-to-center clearance L1, L2, L3 mm		• 12 mm × 5 mm	250	40	8HP1701	• 2 × (12 mm × 5 mm)	400				8HP1701		1	1 unit 046
Dimensions	Rated current of copper busbars (85 °C) A	Center-to-center clearance L1, L2, L3 mm																
• 12 mm × 5 mm	250	40	8HP1701															
• 2 × (12 mm × 5 mm)	400																	
8HP1704	<table border="1"> <tbody> <tr> <td>• 20 mm × 8 mm</td><td>400</td><td>49</td><td>8HP1704</td></tr> <tr> <td>• 2 × (20 mm × 8 mm)</td><td>630</td><td></td><td></td></tr> </tbody> </table>	• 20 mm × 8 mm	400	49	8HP1704	• 2 × (20 mm × 8 mm)	630				8HP1704		1	1 unit 046				
• 20 mm × 8 mm	400	49	8HP1704															
• 2 × (20 mm × 8 mm)	630																	
8HP1703	<table border="1"> <tbody> <tr> <td>• 2 × (30 mm × 10 mm)</td><td>1000</td><td>58</td><td>8HP1703</td></tr> </tbody> </table>	• 2 × (30 mm × 10 mm)	1000	58	8HP1703		8HP1703		1	1 unit 046								
• 2 × (30 mm × 10 mm)	1000	58	8HP1703															
8HP1708	<p>③ Partition</p> <ul style="list-style-type: none"> As end plate or barrier To mount a partition to a busbar support, an 8HP1700 support bracket is required. 		8HP1708		1	1 unit 046												
8HP1700	<p>④ Support bracket</p> <ul style="list-style-type: none"> 1 set = 2 support brackets For mounting freestanding 8HP170 busbar supports. Busbar support not part of the scope of delivery 		8HP1700		1	1 unit 046												
8HP1541	<p>⑤ Connecting flanges Including locking screws and nuts</p>		8HP1541		1	1 unit 046												

* You can order this quantity or a multiple thereof.

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						
8JH4230	Versions	Number	Cross-section mm			
	• For PE/neutral busbars, for free mounting	1	6 x 6	8JH4230	1	1 unit 046
8HP6601	• For standard mounting rail 35 mm	1	6 x 6	8HP6601	1	1 unit 046
8GF9318-2	• For standard mounting rail 35 mm (1 pair)	2 x 1	6 x 6	8GF9318-2	1	10 sets 042
8GF9320-1	• Can be screwed on (1 pair)	2 x 1	6 x 6	8GF9320-1	1	10 sets 042
Busbar supports, 60 mm center-to-center clearance						
8US1923-2AA01	Mounting	Number	Cross-section mm			
	• External	1 x 3	12 x 5	8US1923-2AA01	1	10 units 143
8US1923-3AA01	• Internal	1 x 3	30 x 10	8US1923-3AA01	1	10 units 143
8US1922-2AA00	Cover profile					
	• Length: 1000 mm					
	• Width: 20 ... 30 mm					
Busbar cross-section						
	• 5 mm thick			8US1922-2AA00	1	10 units 143
	• 10 mm thick			8US1922-2BA00	1	10 units 143

* You can order this quantity or a multiple thereof.

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					
 <ul style="list-style-type: none"> 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	8HP1783 8HP1784	1 1	1 unit 1 unit	046 046
	for 5 sections, each 307 mm for 6 sections, each 307 mm	8HP1785 8HP1786	1 1	1 unit 1 unit	046 046
Cu 20 × 8	for 3 sections, each 307 mm for 4 sections, each 307 mm	8HP1793 8HP1794	1 1	1 unit 1 unit	046 046
	for 5 sections, each 307 mm for 6 sections, each 307 mm	8HP1795 8HP1796	1 1	1 unit 1 unit	046 046
Flat copper profiles					
 Bare					
Cross-section mm	Length				
6 × 6	2.4 m	8WC5120	1	1 unit	143
12 × 5		8WC5123	1	1 unit	143
20 × 5		8WC5126	1	1 unit	143
20 × 8	2.4 m	8WC5127	1	1 unit	143
30 × 10		8WC5134	1	1 unit	143

ALPHA 8HP Molded-Plastic Distribution Systems

Busbar Assembly Kits



3NP1 fuse switch disconnectors

Overview

Mounting instructions

- For mounting dimensions, see page 6/51.
- 40 mm center-to-center clearance for 8HP1701.
- 49 mm center-to-center clearance for 8HP1704.
- 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 size 000 fuse switch 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 clearance, 12 × 5 or 2 × (12 × 5)						
Basic units						
	000	160	120	Box terminal at either top or bottom	3NP1123-1BB20	1 1 unit 143
	00	160	120	Flat connection at either top or bottom	3NP1133-1BB10	1 1 unit 143
				Box terminal at either top or bottom	3NP1133-1BB20	1 1 unit 143
Accessories						
	Auxiliary switch (CO contact)	Size				
3NP1920-1FA00		000		3NP1920-1FA00	1 1 unit 143	
		00		3NP1930-1FA00	1 1 unit 143	
	Locking device • 1 set = 10 units	000, 00		3NP1900-1HA00	1 1 unit 143	
3NP1900-1HA00						
	Saddle terminal, single, 1.5 ... 70 mm ² • 1 set = 3 units • For flat connection	00		3NP1933-1BA00	1 1 unit 143	
3NP1933-1BA00						
	Feeder terminal, 16 ... 95 mm ² • 1 set = 3 units • For box terminal • To increase the size of the conductor cross-section	000		3NP1923-1BD00	1 1 unit 143	
3NP1923-1BD00						
	Fuse carrier with electronic EFM10 fuse monitoring • Mounting of fuse carriers only possible with raised cover or with intermediate frame, see page 6/10.	000		3NP1923-1GB20	1 1 unit 143	
3NP1933-1GB20		00		3NP1933-1GB20	1 1 unit 143	

* You can order this quantity or a multiple thereof.

ALPHA 8HP Molded-Plastic Distribution Systems

Busbar Assembly Kits

Terminals

NEW

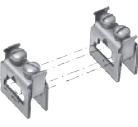
Selection and ordering data

Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Incoming and outgoing terminals					
<ul style="list-style-type: none"> • For busbars 6 mm x 6 mm 					
Conductor cross-section in mm ² (solid or stranded)					
2.5 ... 16		8JH4112		1	10 units 046
	8JH4112				
16 ... 35 (can be retrofitted without dismantling the busbar)		8JH4114		1	10 units 046
	8JH4114				
<ul style="list-style-type: none"> • For busbars 12 mm x 5 mm or 2 x (12 mm x 5 mm) 					
Conductor cross-section in mm ² (solid or stranded)					
One bar	Two bars				
1.5 ... 16	--	► 8US1921-2AA00	100	100 units	143
4 ... 35	--	► 8US1921-2AB00	100	50 units	143
16 ... 70	--	► 8US1921-2AD00	1	50 units	143
16 ... 120	--	► 8US1921-2AC00	1	50 units	143
--	1.5 ... 16	► 8US1921-2BA00	1	100 units	143
--	4 ... 35	► 8US1921-2BB00	1	50 units	143
--	16 ... 70	► 8US1921-2BD00	1	50 units	143
--	16 ... 120	► 8US1921-2BC00	1	50 units	143
1.5 ... 16	--	8JH4102	1	10 units	046
	8US1921				
10 ... 35	--	8JH4104	1	10 units	046
	8JH4102				
16 ... 70	16 ... 35	8JH4105	1	10 units	046
	8JH4104				
16 ... 95	16 ... 70	8JH4106	1	10 units	046
	8JH4105				
25 ... 120	25 ... 50	8JK3061	1	10 units	046
	8JH4106				
	8JK3061				

ALPHA 8HP Molded-Plastic Distribution Systems

Busbar Assembly Kits

Terminals

	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
• For busbars 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			
8JK3113	1.5 ... 10	2	2	8JK3113	1	1 unit 046
	10 ... 70	2	1	8JK3143	1	1 unit 046
8JK3143	50 ... 240	1	1	8JK3171	1	1 unit 046
	50 ... 240	1	2	8JK3172	1	1 unit 046
8JK3171	50 ... 240	1	2	8JK3172	1	1 unit 046
	• For bars 30 mm × 10 mm or 2 × (30 mm × 10 mm);		Description			
8JK3172	Conductor cross-section in mm ² (solid or stranded)	In the case of double busbars, divide the terminals alternately between the two bars in order to even the load	8JK3544	1	1 unit 046	
	10 ... 70	In the case of double busbars, divide the terminals alternately between the two bars in order to even the load	8JK3544	1	1 unit 046	
8JK3544	M12, up to 2 × 240	Cable lug or bar connection	8HP1724	1	1 unit 046	
	Extension terminals		Description			
8HP1724	Busbar in mm ²					
	• 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.	8JK3201	1	10 sets 046	
8JK3201	• 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.	8JK3201	1	10 sets 046	
	• 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.	8JK3281	1	1 unit 046	
8JK3281	• 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.	8JK3281	1	1 unit 046	
	• 2 × (30 × 10)	--	8HP1728	1	1 unit 046	
8HP1728	• 2 × (30 × 10)	--	8HP1728	1	1 unit 046	

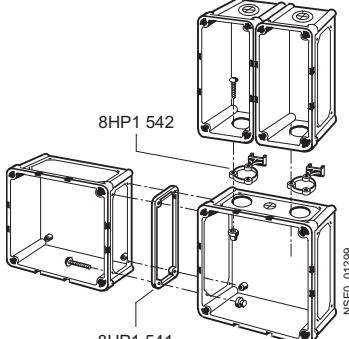
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ALPHA 8HP Molded-Plastic Distribution Systems

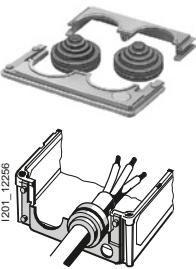
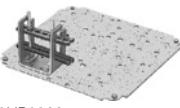
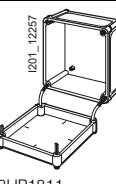
Accessories

Accessories for enclosures

Selection and ordering data

	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
	Connecting flanges					
8HP1541	 <p>Versions</p> <ul style="list-style-type: none"> Including locking screws and nuts 		8HP1541		1	1 unit 046
8HP1542	 <p>Versions</p> <ul style="list-style-type: none"> Including locking screws and nuts, can be used on the narrow side of size 1 enclosures 		8HP1542		1	1 unit 046
	 <p>When enclosures are connected to each other, one sealing frame is required between each set of flange openings.</p>					
	End cover plates					
8HP1500	 <p>Versions</p> <ul style="list-style-type: none"> Without knockouts 		8HP1500		1	1 unit 046
8HP1511-1	 <p>Versions</p> <ul style="list-style-type: none"> With knockouts <ul style="list-style-type: none"> - 2 x M20 - 3 x M20/M25 - 4 x M25/M40 and 8HP180 cable entry. 		8HP1511-1		1	1 unit 046
8HP1512-1	 <p>Versions</p> <ul style="list-style-type: none"> With knockouts <ul style="list-style-type: none"> - 6 x M25/M32 - 2 x M25/M32/M40 and 8HP180 cable entry. 		8HP1512-1		1	1 unit 046
8HP1513-1	 <p>Versions</p> <ul style="list-style-type: none"> With knockouts <ul style="list-style-type: none"> - 2 x M20 - 8 x M25/M32 		8HP1513-1		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 8HP151 end cover plates with knockouts • For position of knockouts on the enclosure, see page 6/49. • IP65					
	Number	Cross-section	8HP1805		1	1 unit 046
8HP1805	1	Ø 12 ... 29 mm				
	2	Ø 6 ... 15 mm	8HP1806		1	1 unit 046
8HP1806						
	3	Ø 4 ... 12.5 mm	8HP1807		1	1 unit 046
8HP1807						
	4	Ø 4 ... 12 mm	8HP1808		1	1 unit 046
8HP1808						
	Cable entry plate • Including - Fixing components - Seal - 2 x 8HC6900 rubber cable entries for cables of 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		8HP1520		1	1 unit 046
8HP1520						
	Cable entry for cable entry plate • For cables Ø 14 mm ... 65 mm • Suitable for 8HP1520 cable entry plate		8HC6900		1	1 unit 046
8HC6900						
	Protective cap • For 8HC6 900 rubber cable entry • Prodproof! Note The lower figure shows an application example for 8HP1525.		8HP1525		1	1 unit 046
8HP1525						
	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		8HP6322		1	1 unit 046
8HP6322						
	Strain relief For individual mounting and for 8HP6322		8HP1530		1	1 unit 046
8HP1530						
	Screws for cover hinges • 1 set = 2 units • Required for line protection if electrical equipment is installed in the cover		8HP1811		1	1 unit 046
8HP1811						

* You can order this quantity or a multiple thereof.

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 <ul style="list-style-type: none">• 1 set = 4 locks• Closing by hand• Opening only with a tool	8HP1813			1	1 unit 046
	Grip end <ul style="list-style-type: none">• 1 set = 4 grip ends• Knurled• For opening by hand	8HP1810			1	1 unit 046
	Sealing cap <ul style="list-style-type: none">• 1 set = 2 caps• For sealing the quick-release cover locks	8HP1815			1	1 unit 046
	Breathers, PG 16 <ul style="list-style-type: none">• 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 6/48	8HE8541			1	1 unit 046
	Self-tapping screws <ul style="list-style-type: none">• 1 set = 50 screws• Suitable for domes in the enclosure base	8HP6621			1	1 unit 046
	Mounting rail <ul style="list-style-type: none">• With threaded holes, M4• Mounting length 236 mm• For mounting on enclosure base (dome, brass sockets)• Suitable for the flexible installation of 8HP6510 standard mounting rails and 8JH141 support rails	8JK113			1	1 unit 046
	Standard mounting rails <ul style="list-style-type: none">• TH 35 acc. to EN 60715 (1 mm thickness)• Mounting length 236 mm• For mounting on enclosure base (dome, brass sockets)	8HP6510			1	1 unit 046
	Support rail <ul style="list-style-type: none">• For meters• Time switches and timing relays• Mounting length 1 enclosure width = 236 mm	8JH141			1	1 unit 046
Note		Two 8JK113 mounting rails are required for installing the support rail in the enclosure				
	M5 stud bolts <ul style="list-style-type: none">• Hexagonal• For screwing directly into the M5 threaded bushes in the enclosure base	Versions				
8HP6615		• Length 10 mm	8HP6615	1	1 unit 046	
		• Length 15 mm	8HP6611	1	1 unit 046	
		• Length 30 mm	8HP6612	1	1 unit 046	
		• Length 35 mm	8HP6614	1	1 unit 046	
		• Length 50 mm	8HP6613	1	1 unit 046	
	M4 stud bolts For screwing into 8JK113 mounting rail or mounting plates	Versions				
8JH1353		• Length 20 mm	8JH1353	1	1 unit 143	
		• Length 30 mm	8JH1354	1	1 unit 143	
		• Length 50 mm	8JH1356	1	1 unit 143	
	Blanking cover plate Made of molded plastic, RAL 7035, light gray	Versions				
8HP6586		• For enclosure size 2	8HP6586	1	1 unit 046	
8HP6586		• For enclosure size 3	8HP6588	1	1 unit 046	
	Holder for measuring instruments <ul style="list-style-type: none">• For installation on mounting plates• Suitable for measuring instruments □ 96 mm or □ 72 mm	8HP6201			1	1 unit 046

* You can order this quantity or a multiple thereof.

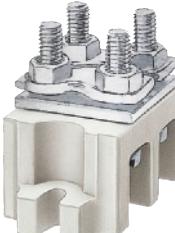
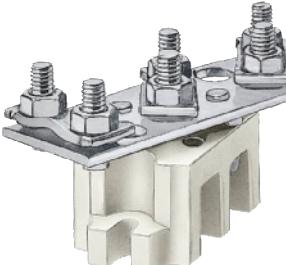
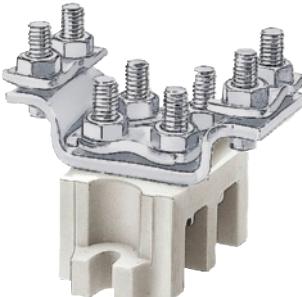
Terminals for mounting plate assembly**Overview****Base terminals, single-pole, insulated**

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.

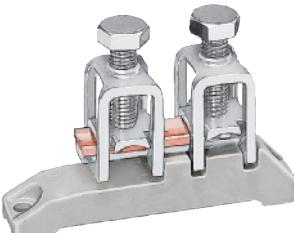
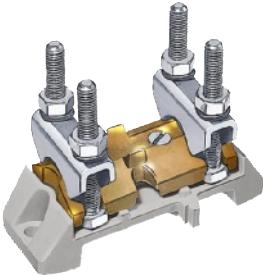
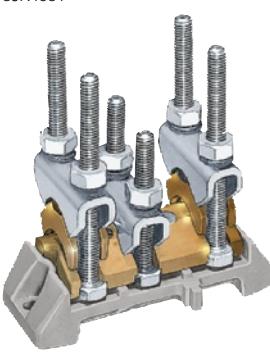
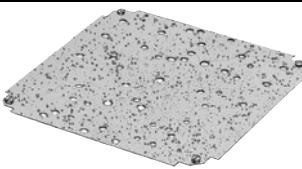
Selection and ordering data

	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Ceramic bases						
	Incoming cables Number	Cross-section in mm ²	Outgoing cables Number	Cross-section in mm ²		
 8JH404	1	4 ... 35	1	4 ... 35	8JH404	1 1/25 units 046
 8JH4043	1	4 ... 35	1	4 ... 35	8JH4043	1 1 unit 046
 8JH4044	1	4 ... 35	3	4 ... 35	8JH4044	1 1 unit 046

ALPHA 8HP Molded-Plastic Distribution Systems

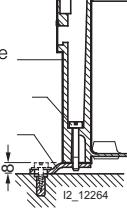
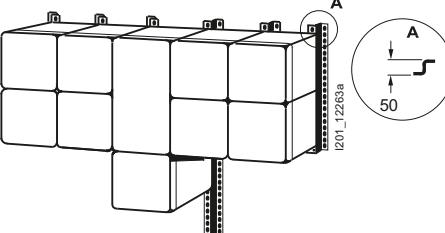
Accessories

Terminals for mounting plate assembly

	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Base made of glass-fiber reinforced polyester resin						
	Incoming cables Number	Cross-section in mm ²	Outgoing cables Number	Cross-section in mm ²		
 8JK401	1	6 ... 70	1	6 ... 70	8JK401	1 1 unit 046
 8JK404	1 or 2	35 ... 150 6 ... 50	1 or 2	35 ... 150 6 ... 50	8JK404	1 1 unit 046
 8JK4061	1	50 ... 240	1	50 ... 240	8JK4061	1 1 unit 046
 8JK406	2	50 ... 240	2	50 ... 185	8JK406	1 1 unit 046
Molded-plastic partition For 8JK406 and 8JK4061 terminals					8JK4100	1 1 unit 046
Mounting plate for terminal mounting • Size 2 • For max. 5 terminals, 8JK404, 8JK406 or 8JK4061					8HP6312	1 1 unit 046
 8HP6312						

* You can order this quantity or a multiple thereof.

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	8HC3800		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 2000 mm long	8HC3510 8HP9020		1	1 unit 046
			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	8HP9121 8HP9122 8HP9123 8HP9124		1	1 unit 046
			1	1 unit 046
• With additional fixing for 8HP rack - Enclosure width = 3 - Enclosure width = 4	8HP9133 8HP9134		1	1 unit 046
			1	1 unit 046
• With additional fixing for 8HP rack and supporting cross arm - Enclosure width = 5 - Enclosure width = 6	8HP9135 8HP9136		1	1 unit 046
			1	1 unit 046

ALPHA 8HP Molded-Plastic Distribution Systems

Accessories

Tools and aids

Selection and ordering data

	Version	DT Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG													
 8HP9000	Separating tools With one blade for easy cutting out of the flange knockouts in the side panels of the enclosures	8HP9000		1	1 unit 046													
 8HP9001	Replacement blades	8HP9001		1	1 unit 046													
Enclosure size 1	Cutouts <ul style="list-style-type: none"> 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 8HP1898 with the appropriate number of total cutouts for all enclosures (see ordering example). 	8HP1898		1	1 unit 046													
Enclosure size 2	<p>Ordering example</p> <ul style="list-style-type: none"> 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 border="1"> <thead> <tr> <th>Order text</th> <th>Order number</th> <th>Number</th> </tr> </thead> <tbody> <tr> <td>Enclosure size 2 with cutouts: a, b, c</td> <td>8HP2002-Z Z=a,b,c</td> <td>3</td> </tr> <tr> <td>Enclosure size 2 with cutouts: a, c, d</td> <td>8HP2002-Z Z=a,c,d</td> <td>3</td> </tr> <tr> <td>Enclosure size 3 with cutouts: b, c</td> <td>8HP2003-Z Z=b,c</td> <td>2</td> </tr> <tr> <td>= number of mounting positions</td> <td>8HP1898</td> <td>8</td> </tr> </tbody> </table>	Order text	Order number	Number	Enclosure size 2 with cutouts: a, b, c	8HP2002-Z Z=a,b,c	3	Enclosure size 2 with cutouts: a, c, d	8HP2002-Z Z=a,c,d	3	Enclosure size 3 with cutouts: b, c	8HP2003-Z Z=b,c	2	= number of mounting positions	8HP1898	8		
Order text	Order number	Number																
Enclosure size 2 with cutouts: a, b, c	8HP2002-Z Z=a,b,c	3																
Enclosure size 2 with cutouts: a, c, d	8HP2002-Z Z=a,c,d	3																
Enclosure size 3 with cutouts: b, c	8HP2003-Z Z=b,c	2																
= number of mounting positions	8HP1898	8																
Enclosure size 2.5																		
Enclosure size 3																		
Enclosure size 4																		

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.

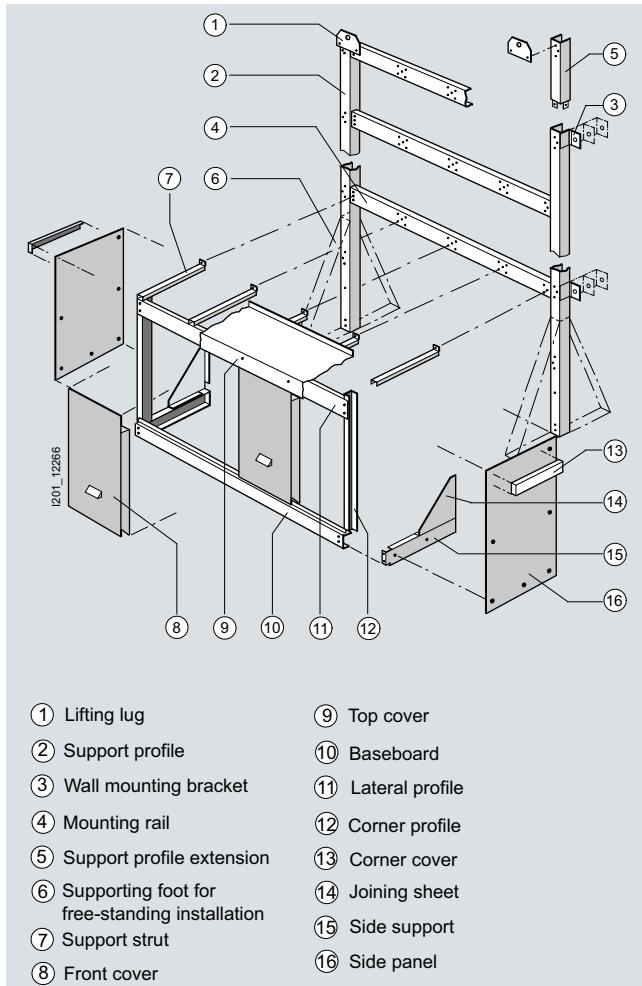
One section corresponds to the basic dimensions of the ALPHA 8HP system: 307 mm.

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 8HP9057 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.



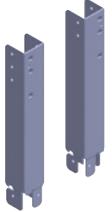
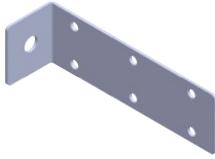
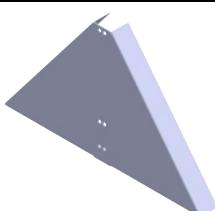
Individual parts for support rack and cable space cover

ALPHA 8HP Molded-Plastic Distribution Systems

Accessories

Support rack

Selection and ordering data

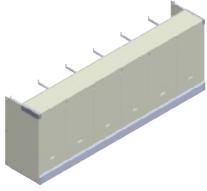
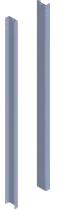
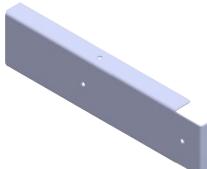
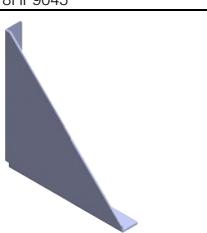
	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG	
Components of the support rack							
	② Support profiles • 1 set = 2 profiles (left and right) • Including: - 4 wall-mounting brackets ③ - 2 lifting lugs ① - Mounting material						
8HP9030-6	Height mm	Number of sections					
	921	3	8HP9030-3	1	1 set	046	
	1228	4	8HP9030-4	1	1 set	046	
	1535	5	8HP9030-5	1	1 set	046	
	1842	6	8HP9030-6	1	1 set	046	
	2149	7	8HP9030-7	1	1 set	046	
	④ Support rail Including mounting material						
8HP9032-6	Number of sections	For width of distribution board mm	Length of rail mm				
	2	614	521	8HP9032-2	1	1 unit	046
	3	921	821	8HP9032-3	1	1 unit	046
	4	1228	1228	8HP9032-4	1	1 unit	046
	5	1535	1435	8HP9032-5	1	1 unit	046
	6	1842	1742	8HP9032-6	1	1 unit	046
	⑤ Support profile extensions • 1 set = 2 extensions (left and right) • Dimensions: 307 mm		8HP9034		1	1 unit	046
8HP9034							
	③ Wall-mounting brackets • 1 set = 2 brackets • If needed additionally • For wall distances of 50 to 100 mm		8HP9033		1	1 unit	046
8HP9033							
	Connecting brackets For connecting two racks and for wall mounting at rear of enclosure		8HP9060		1	1 unit	046
8HP9060							
	Supporting feet For free-standing installation without cable space cover		8HP9031		1	1 unit	046
8HP9031							
	Screws and nuts • 1 set = 40 units • For fixing the ISO enclosure to the support rails		8HP9056		1	1 set	046
8HP9056							

* You can order this quantity or a multiple thereof.

ALPHA 8HP Molded-Plastic Distribution Systems

Accessories

Support rack

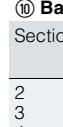
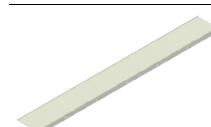
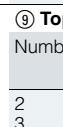
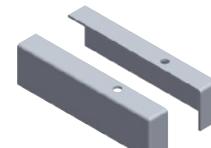
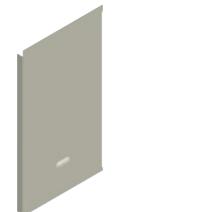
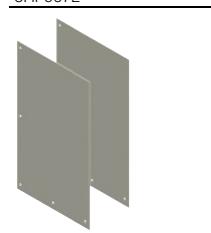
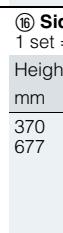
Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Complete cable space cover					
 Complete cable space cover Unassembled					
Number of sections	Height mm				
2	370 677	8HP9102 8HP9112	1	1 unit	046
3	370 677	8HP9103 8HP9113	1	1 unit	046
4	370 677	8HP9104 8HP9114	1	1 unit	046
5	370 677	8HP9105 8HP9115	1	1 unit	046
6	370 677	8HP9106 8HP9116	1	1 unit	046
Note					
For individual parts of the <i>complete cable space cover</i> see More information on page 6/47.					
Cable space cover, single					
 ⑫ Corner profile 1 set = 2 profiles					
Height mm					
370 677		8HP9061 8HP9062	1	1 unit	046
8HP9062			1	1 unit	046
 ⑪ Lateral profile					
Number of sections	Width mm				
2	614	8HP9063-2	1	1 unit	046
3	921	8HP9063-3	1	1 unit	046
4	1228	8HP9063-4	1	1 unit	046
5	1534	8HP9063-5	1	1 unit	046
6	1842	8HP9063-6	1	1 unit	046
 ⑦ Support strut Number of sections plus 1					
8HP9067		8HP9067	1	1 unit	046
 ⑯ Side support					
8HP9045		8HP9045	1	2 units	046
 ⑭ Joining sheet					
8HP9046		8HP9046	1	2 units	046

* You can order this quantity or a multiple thereof.

ALPHA 8HP Molded-Plastic Distribution Systems

Accessories

Support rack

	Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
 8HP9038-6	⑩ Baseboard  Sections	Width mm				
2	614		8HP9038-2	1	1 unit	046
3	921		8HP9038-3	1	1 unit	046
4	1228		8HP9038-4	1	1 unit	046
5	1535		8HP9038-5	1	1 unit	046
6	1842		8HP9038-6	1	1 unit	046
 8HP9073-6	⑨ Top cover  Number of sections	Width mm				
2	614		8HP9073-2	1	1 unit	046
3	921		8HP9073-3	1	1 unit	046
4	1228		8HP9073-4	1	1 unit	046
5	1534		8HP9073-5	1	1 unit	046
6	1842		8HP9073-6	1	1 unit	046
 8HP9083	⑬ Corner cover 1 set = 2 corner covers		8HP9083	1	1 unit	046
 8HP9072	⑧ Front cover  Height mm					
370			8HP9071	1	1 unit	046
677			8HP9072	1	1 unit	046
 8HP9082	⑯ Side panel 1 set = 2 side panels  Height mm					
370			8HP9081	1	1 unit	046
677			8HP9082	1	1 unit	046
 8HP9057	Double flange For mounting enclosures under the cable space cover		8HP9057	1	1 unit	046
 8HP9056	Screws and nuts Assortment sufficient for six sections		8HP9058	1	1 unit	046

* You can order this quantity or a multiple thereof.

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
8HP9102	3 × 8HP9067	2 × 8HP9071	8HP9073-2	8HP9038-2	8HP9063-2	8HP9061	8HP9083	8HP9046	8HP9045	8HP9081	8HP9058
8HP9112	3 × 8HP9067	2 × 8HP9072	8HP9073-2	8HP9038-2	8HP9063-2	8HP9062	8HP9083	8HP9046	8HP9045	8HP9082	8HP9058
8HP9103	4 × 8HP9067	3 × 8HP9071	8HP9073-3	8HP9038-3	8HP9063-3	8HP9061	8HP9083	8HP9046	8HP9045	8HP9081	8HP9058
8HP9113	4 × 8HP9067	3 × 8HP9072	8HP9073-3	8HP9038-3	8HP9063-3	8HP9062	8HP9083	8HP9046	8HP9045	8HP9082	8HP9058
8HP9104	5 × 8HP9067	4 × 8HP9071	8HP9073-4	8HP9038-4	8HP9063-4	8HP9061	8HP9083	8HP9046	8HP9045	8HP9081	8HP9058
8HP9114	5 × 8HP9067	4 × 8HP9072	8HP9073-4	8HP9038-4	8HP9063-4	8HP9062	8HP9083	8HP9046	8HP9045	8HP9082	8HP9058
8HP9105	6 × 8HP9067	5 × 8HP9071	8HP9073-5	8HP9038-5	8HP9063-5	8HP9061	8HP9083	8HP9046	8HP9045	8HP9081	8HP9058
8HP9115	6 × 8HP9067	5 × 8HP9072	8HP9073-5	8HP9038-5	8HP9063-5	8HP9062	8HP9083	8HP9046	8HP9045	8HP9082	8HP9058
8HP9106	7 × 8HP9067	6 × 8HP9071	8HP9073-6	8HP9038-6	8HP9063-6	8HP9061	8HP9083	8HP9046	8HP9045	8HP9081	8HP9058
8HP9116	7 × 8HP9067	6 × 8HP9072	8HP9073-6	8HP9038-6	8HP9063-6	8HP9062	8HP9083	8HP9046	8HP9045	8HP9082	8HP9058

Support rack and cable space cover, rear view

ALPHA 8HP Molded-Plastic Distribution Systems

Dimensional Drawings

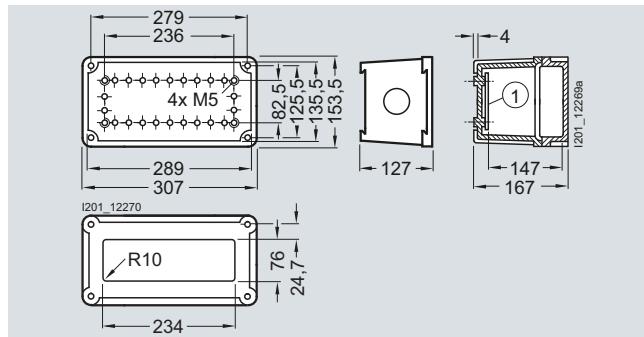
Single enclosures, knockouts

Dimensional drawings

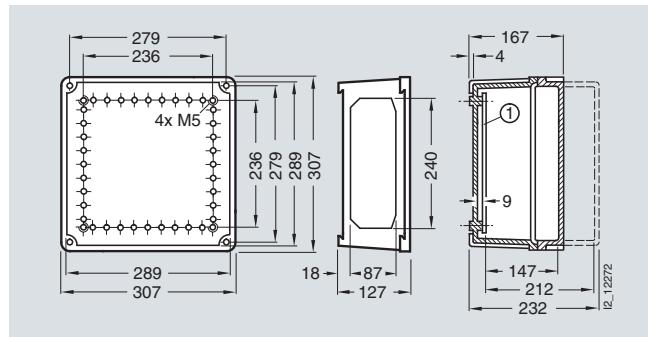
Note: More drawings can be found in the Technology Manual
<http://support.automation.siemens.com> -> "Product Support" ->
 "Electrical Installation Technology".

Empty enclosures

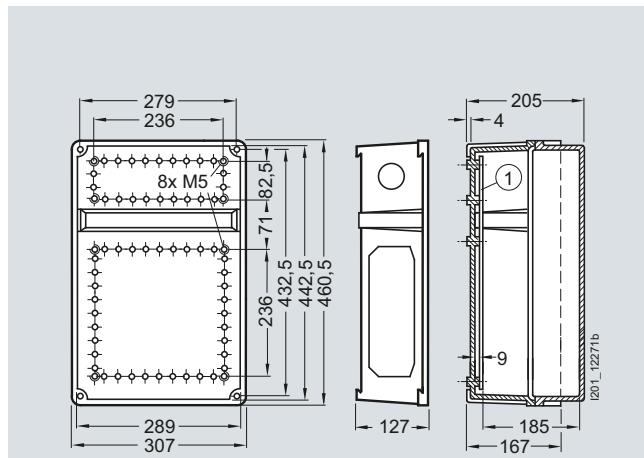
Empty enclosure, cover



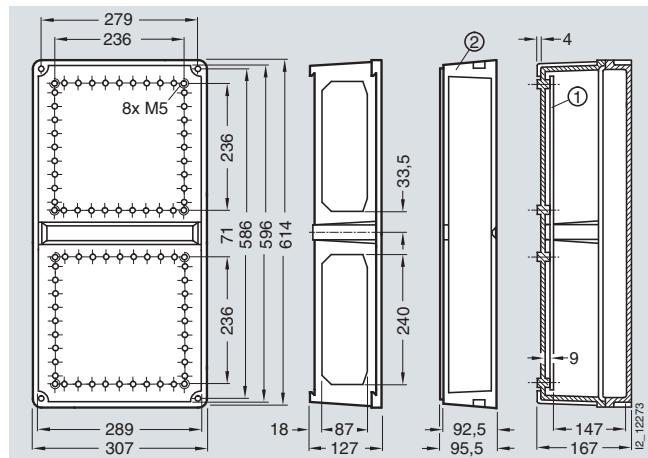
Enclosure size 1



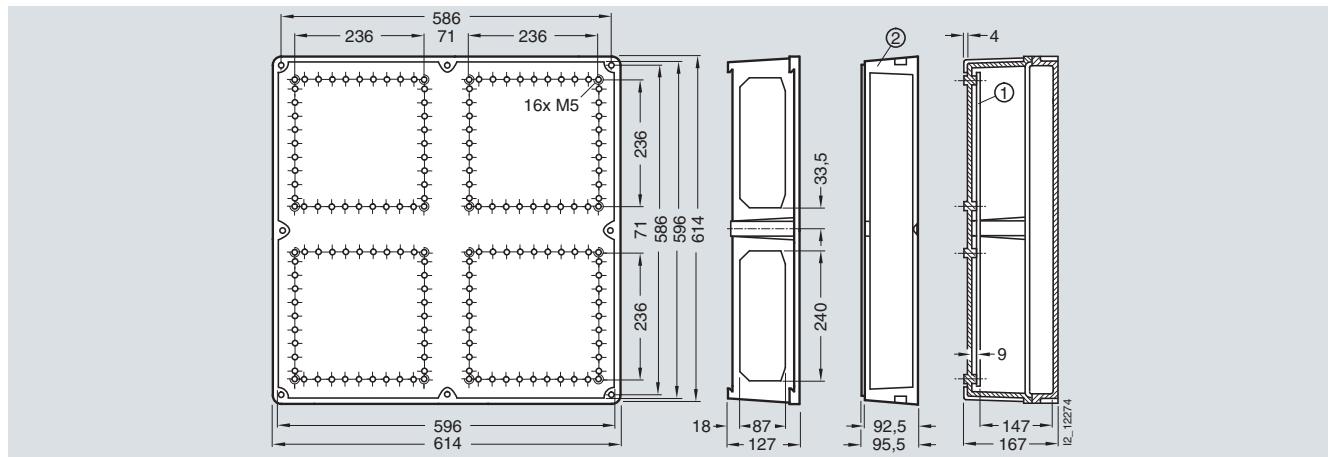
Enclosure size 2



Enclosure size 2.5



Enclosure size 3

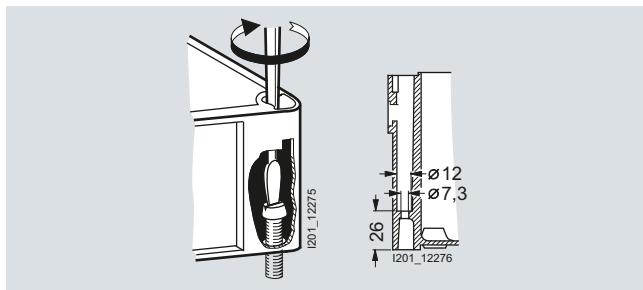


Enclosure size 4

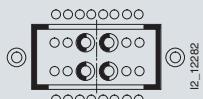
① Mounting plate, 2 mm thick

② Intermediate frame for increasing mounting depth (can be multi-stacked)

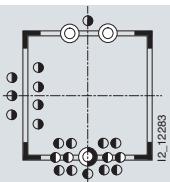
Single enclosures, knockouts



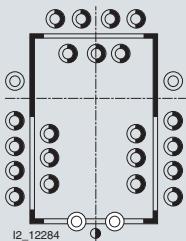
Enclosure fixing

Knockouts for flange openings and cable entries

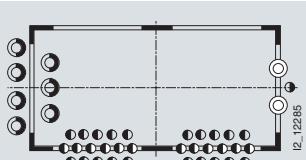
Enclosure size 1



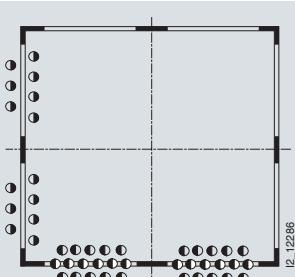
Enclosure size 2



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 6/49.

Knockouts for connection of enclosure to 8HP1541 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

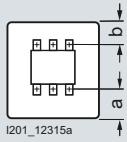
Dimensional Drawings

Enclosures with switching devices

Dimensional drawings

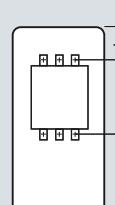
Enclosures with main and EMERGENCY-OFF switches

Connection compartments for integrated switch disconnectors



Type	Dimensions
a	b
3KA50	95
3KA53	95
3KA55	85
3KA57	85
3KE42	55
3KE43	55

I201_12315a



Type	Dimensions
a	b
3KA52	285
3KE43	285
3KE44	255
3KE45	250

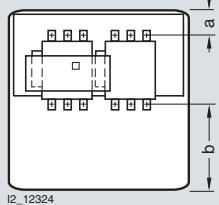
I201_12316a

Enclosure size 2

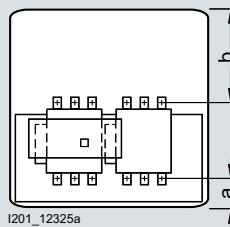
Enclosure size 3

Enclosures with assembly kits for changeover and parallel switches

Mounting options for 3KE switch disconnectors



I2_12324

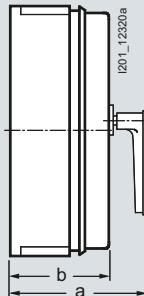


I201_12325a

Type	Dimensions
a	b
3KE42	90
3KE43	90
3KE44	55

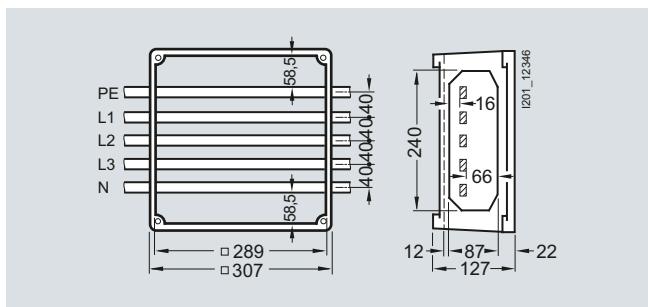
The mounting plate has boreholes for 2 PEN terminals each,
either 8JK404 (150 mm²) or 8JK406 (240 mm²).

Enclosures with main and EMERGENCY-OFF switches, with switch disconnectors with fuses and with circuit breakers

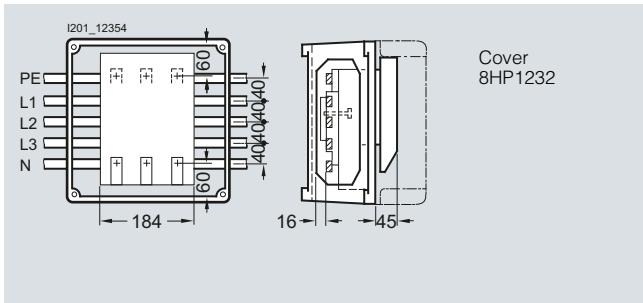


Switch type	Enclosure size	Intermediate frames	Operating mechanism	a	b
3KA50, 3KL50	2	--	Knob	36 mm	300
3KA53, 3KL52	2	--	Knob	62 mm	300
3KA57, 3KL55	2	--	Handle	140 mm	322
3KE42, 3KE43	2	--	Handle	140 mm	322
3KE42, 3KE43	3	1	Handle	140 mm	350
3KE44, 3KE45	3	1	Handle	200 mm	350
3KE changeover contact	4	2	Double handle	280 mm	442
8HP4 11.	3 or 4	1	Double handle 280 mm	350	260

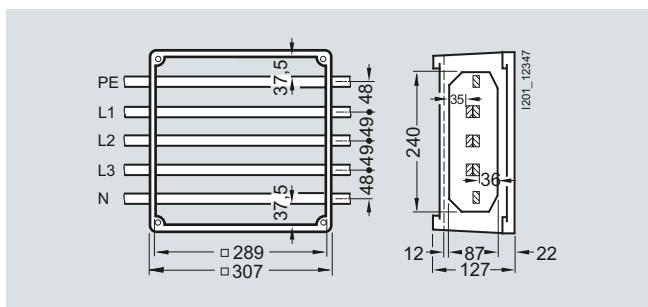
I201_12320a

ALPHA 8HP Molded-Plastic Distribution Systems**Dimensional Drawings****Busbar systems****Dimensional drawings****Position of the busbars in the enclosures**

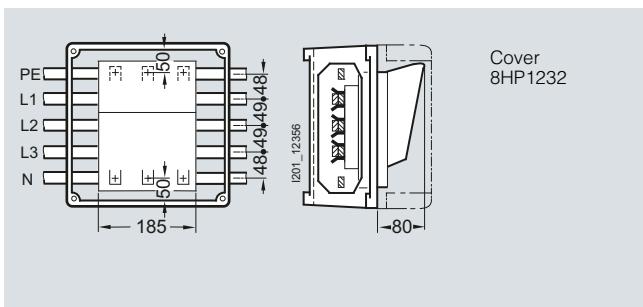
8HP1701



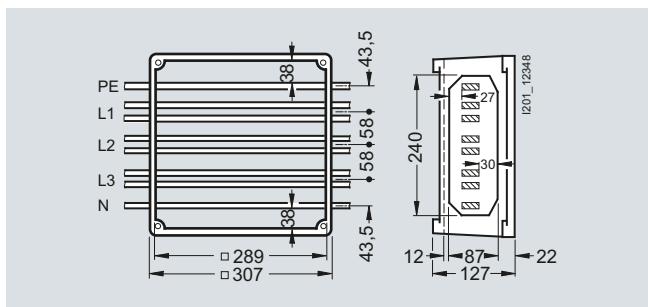
Busbars 250



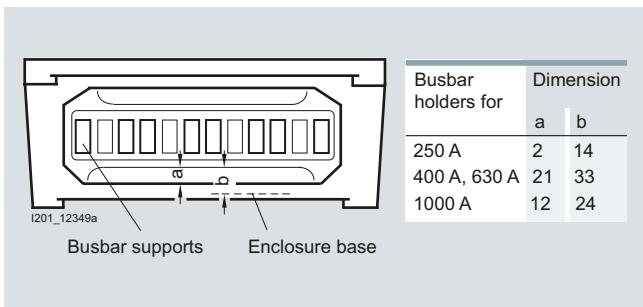
8HP1704



Busbars 400/630 A for 8HP4314 switches



8HP1703



ALPHA 8HP Molded-Plastic Distribution Systems

Dimensional Drawings

Notes

6

Appendix



7/2	Catalog notes
7/3	Ordering notes
7/5	UL notes
7/6	ATEX explosion protection
7/7	Further documentation
7/8	Quality management
7/9	Standards and approvals
7/15	Siemens Contacts
7/16	Online Services
7/18	Service & Support
7/19	Comprehensive support from A to Z
7/20	Software Licenses
7/22	Subject index
7/23	Order number index incl. export markings
7/30	Conditions of sale and delivery

Appendix

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.

Ordering notes

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.

Appendix

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 alphanumeric 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/industrymall.

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.	PU (UNIT, SET, M)	PS/ P. unit	PG
►	8US1921-2AA00	100	100 units	143

DT: Preferred type
 PU: 100 units (on which price is based)
 PS/P. unit: 100 = minimum order quantity
 PG: 143

DT	Order No.	PU (UNIT, SET, M)	PS/ P. unit	PG	Weight
►	5ST2522	1	1 unit	020	2.041

DT: Preferred type
 PU: One unit (on which price is based)
 PS/P. unit: 1 = minimum order quantity
 PG: 020
 Weight: 2.041 kg

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!

Appendix

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.

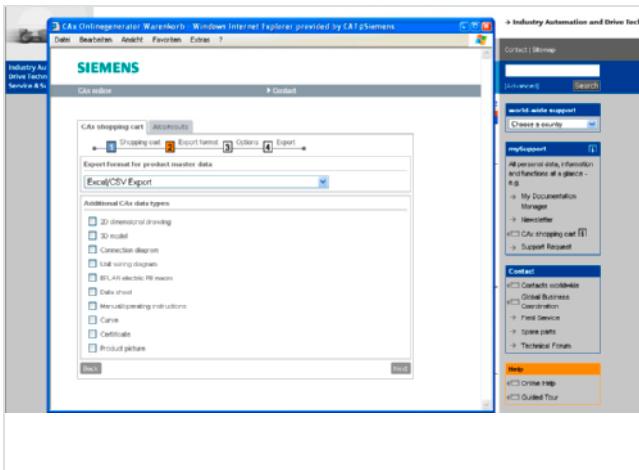
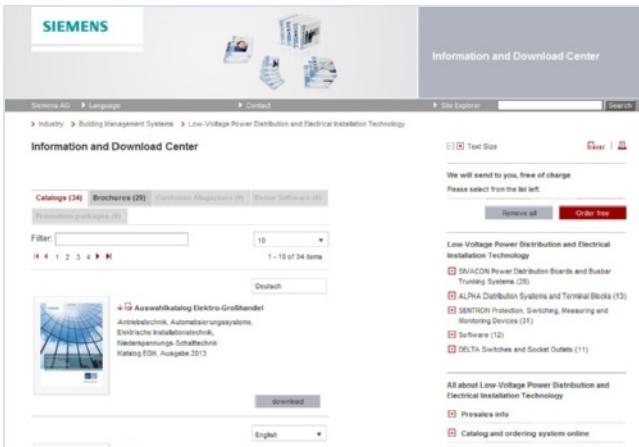
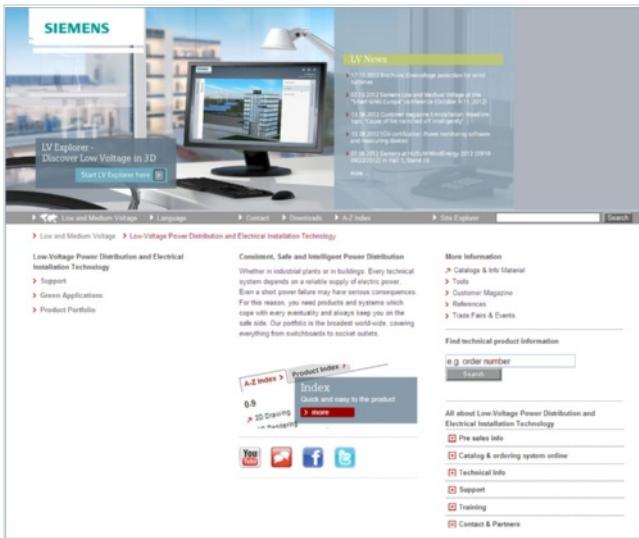
With Directive 94/9/EC, the European Union laid the foundations for complete harmonization by requiring that all new devices as from 1st July 2003 have to be approved in accordance with this directive.

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.



Further documentation

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).

7

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

Appendix

Quality management

Overview

The quality management system of our IC LMV LP Business Unit complies with the international standard ISO 9001.

The products and systems listed in this catalog are marketed using a VDE-approved quality management system according to ISO 9001.

VDE certificate

Siemens AG
Infrastructure & Cities Sector
Low and Medium Voltage Division
Low Voltage & Products
Reg. No.: 40017/QM/03.06

Certificates

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:

www.siemens.com/lowvoltage/support

In the Entry List you can use the certificate type (general product approval, explosion protection, test certificates, shipbuilding, ...) as a filter criterion.

The screenshot shows a web interface for managing certificates. On the left is a navigation tree for 'Automation, Drive and Power Technology Services & Support' under 'Low Voltage'. On the right, a search form is used to filter certificates by type (Certificates), office (all), and country (all). A list of certificates is displayed, each with a title, date, and ID. The certificates listed are:

- Certificates Test Certificates, Special Test Certificate, Manufacturer 3010 for products: 3PAZ more> - Date: 2010-10-22, ID: 49900065
- Certificates Declaration of Conformity, Manufacturer for products: 7M0M200-5A0B0-QA00 more> - Date: 2010-10-19, ID: 49900117
- Certificates General Product Approval, CB-Testscope, CB-Member CEI-0437NAI for products: 3L2/93M more> - Date: 2010-10-08, ID: 49900114
- Certificates Test Certificate, Type Test Certificate/Test Report, Manufacturer 3010 for products: 3PAZ more> - Date: 2010-10-08, ID: 49900065
- Certificates Test Certificates, Type Test Certificates/Test Report, Manufacturer 3010 for products: 3PAZ more> - Date: 2010-10-08, ID: 49900066

Standards and approvals

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
60947-1	60947-1	--	Low-voltage controlgear and switchgear: General requirements
60947-2	60947-2	--	• Circuit breakers
60947-3	60947-3	--	• Load-break switches, disconnectors, switch disconnectors and fuse-combination units
60947-4-1	60947-4-1	--	• Contactors and motor starters: Electromechanical contactors and motor starters
60947-4-2	60947-4-2	--	• Contactors and motor starters: Semiconductor motor controllers and starters, soft starters
60947-4-3	60947-4-3	--	• AC semiconductor controllers and contactors for non-motor loads
60947-5-1	60947-5-1	--	• Control devices and switching elements: Electromechanical control circuit devices
60947-5-2	60947-5-2	--	• Control devices and switching elements: Proximity switches
60947-5-3	60947-5-3	--	• Proximity switches (specific behavior under fault conditions)
60947-5-5	60947-5-5	--	• EMERGENCY-STOP devices with mechanical latching
60947-5-6	60947-5-6	--	• Control devices and switching elements - DC interface for proximity switches and switching amplifier (NAMUR)
60947-5-7	60947-5-7	--	• Requirements for proximity switches with analog output
60947-5-8	60947-5-8	--	• Approval switches
60947-5-9	60947-5-9	--	• Flow sensors
60947-6-1	60947-6-1	--	• Multifunctional switching device: Transfer switches
60947-6-2	60947-6-2	--	• Multifunctional switching device: Control and protection switching device (CPS)
60947-7-1	60947-7-1	--	• Ancillary equipment: Terminal blocks for copper conductors
60947-7-2	60947-7-2	--	• Ancillary equipment: Protective conductor for copper conductors
60947-7-3	60947-7-3	--	• Ancillary equipment: Safety requirements for terminal blocks
60947-8	60947-8	--	• Releases for the integrated thermal Protection (PTC) of rotating electric machines
62026-2	50295	--	Low-voltage controlgear and switchgear: Actuator-Sensor Interface (AS-i)
60269-1	60269-1	--	Low-voltage fuses: General requirements
60269-4	60269-4	--	Low-voltage fuses: Supplementary requirements for fuse links for protecting semiconductor components
60050-441	--	--	International dictionary/switchgear and/or switching devices and fuses
60439-1	60439-1	--	Low-voltage switchgear assemblies: Type-tested and partially type-tested assemblies
60439-3	60439-3	--	Low-voltage switchgear assemblies – distribution boards
61439-1	61439-1	0660-600-1	Low-voltage switchgear assemblies – General part
61439-2	61439-2	0660-600-2	Low-voltage switchgear assemblies – Power switchgear assemblies
--	50274	--	Low-voltage switchgear assemblies - Protection from electric shock - Protection from accidental touching of dangerous active parts
61140	61140	--	Protection from electric shock - General requirements for apparatus and equipment
60664-1	60664-1	--	Insulation coordination for electrical equipment in low-voltage systems; Principles, requirements and tests
60204-1	60204-1	--	Electrical equipment of machines: General requirements
--	50178	--	Equipment of electrical power installations with electronic equipment
60079-14	60079-14	--	Electrical apparatus for potentially explosive gas atmospheres
60079-2	60079-2	--	Installing electrical apparatus in potentially explosive gas atmospheres (except mining)
			Electrical equipment for potentially explosive gas atmospheres - Part 2 Pressurized enclosures M "p"

Appendix

Standards and approvals

IEC	EN	DIN VDE	Title
61810-1	61810-1	--	Electromechanical elementary relays (electromechanical switching relays without a fixed time response); General and safety-related requirements
61812-1	61812-1	--	Relays with a fixed time response (timing relays) for industrial applications - Part 1: Requirements and tests
60999-1	60999-1	--	Connecting materials - Safety requirements for screw terminals and screwless clamping points for electrical copper conductors - Part 1: General requirements and special requirements for clamping points for conductors from 0.2 mm ² to 35 mm ²
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	61558-2-15	0570-2-15 ¹⁾	• Part 2-15: Particular requirements and tests for isolating transformers for the supply of medical locations
61558-2-20	61558-2-20	0570-2-20 ¹⁾	• Part 2-20: Particular requirements and tests for small reactors
62041	62041	0570-10 ¹⁾	Safety of transformers, reactors, power supply units and combinations thereof - EMC requirements
60076-11	60076-11	--	Power transformers - Part 11: Dry-type transformers
--	--	0552	Standards for variable-ratio transformers with moving contacts perpendicular to the coiling direction
61000-4-1	61000-4-1	--	Electromagnetic compatibility (EMC) - Part 4: Testing and measuring techniques; Main Section 1: Overview of measuring techniques for interference immunity; Basic EMC standard
61000-6-3	61000-6-3	--	Electromagnetic compatibility (EMC); Basic specification for emitted interference in residential and commercial environments as well as in light industry
61000-6-4	61000-6-4	--	Electromagnetic compatibility (EMC); Basic specification for emitted interference in industrial environments
60044-1	60044-1	--	Measuring transducers: Current transformers

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, Devision 2 and CLASS III hazardous (Classified) Locations
1059	--	--	--	Terminal Blocks
486A-486B	--	--	--	Wire Connectors
486E	--	--	--	Equipment wiring Terminals for Use with Aluminium 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 7/12 to 7/14.

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 page 7/11.

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:

7

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".

Appendix

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  Canada: c  c 	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 page 7/10.

Special standards, for example, Argentina, Australia, China, Romania, Russia and South Africa

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 $I_n = 63\text{ A}$ and $U_{max} = 440\text{ V}$ require approval and must bear a mark of conformity.

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.

CCC approval



Since August 1, 2003, CCC approval is required for many 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.

Type overview of approved devices

Chapter 6 · ALPHA 8HP Molded-Plastic Distribution Systems

Type	Approvals					Marine classifications						
	Canada 1) c 	USA 1) c 	China 1) CCC	Russia GOST	Germany GL	United Kingdom LRS	France BV	Norway DNV	CIS RMRS	Italy RINA	Poland PRS	USA ABS
Distribution systems												

8HP20

-- -- + -- -- -- + -- -- -- -- -- -- -- --

+ Standard version approved.

-- Not yet submitted for approval.

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.

Further certifications and approvals available on request.

Standards and approvals

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.

Appendix

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.

Siemens Contacts

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At Siemens Industry Automation and Drive Technologies, 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 automation and drive technology in all industries – worldwide.

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- > Low-Voltage Controls and Distribution
- > Safety Systems – Safety Integrated
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Siemens AG, NL Dresden
PB EM&BT OST FV 14
Company: Vertebis (AUGOT OST)
Wittenbergstr. 105/6a
D-01139 Dresden, Germany
Tel +49 305 844 4400
Fax +49 305 844 4410
E-mail: vertebis.aus.ost@siemens.com
Internet: <http://www.siemens.de/standorte/vertebis/home.aspx>

Drive Technology

Another product group?

Local Partner for this Product is:

Siemens AG, NL Dresden
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Company: Vertebis (AUGOT OST)
Wittenbergstr. 105/6a
D-01139 Dresden, Germany
Tel +49 305 844 4400
Fax +49 305 844 4410
E-mail: vertebis.aus.ost@siemens.com
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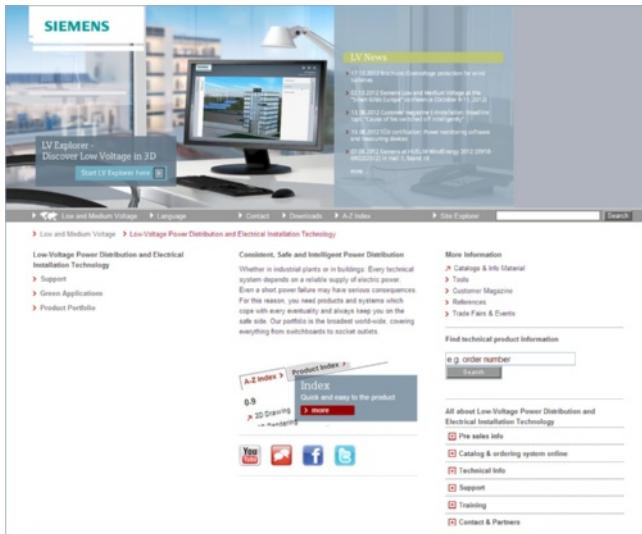
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Appendix

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.

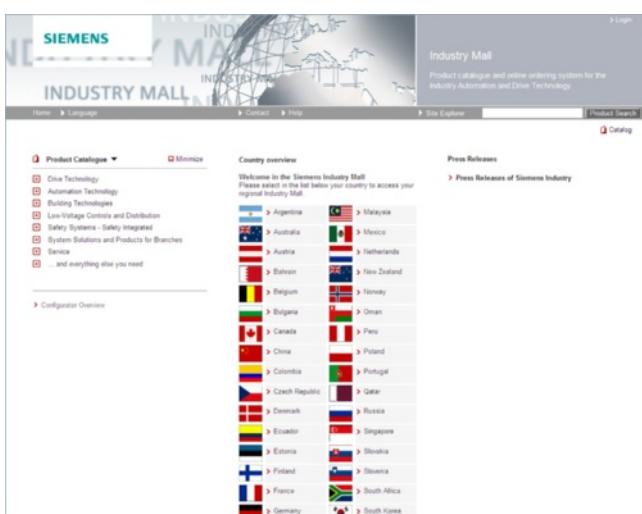
After selecting the product of your choice you can order at the press of a button, by fax or by online link.

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.

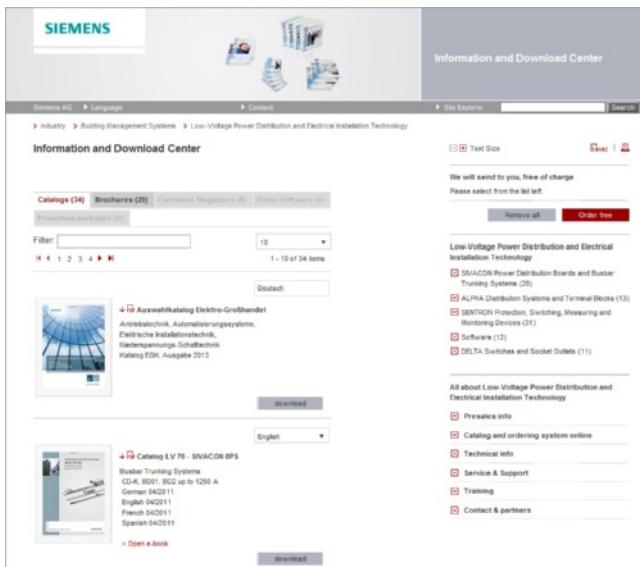
For example, powerful search functions make it easy to find the required products, which can be immediately checked for availability. Customer-specific discounts and preparation of quotes can be carried out online as well as order tracking and tracing.

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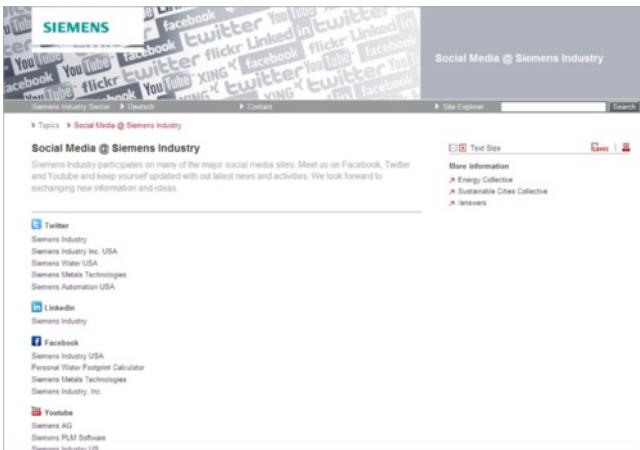
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www.siemens.com/lowvoltage/infomaterial

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Or via our product pages at:

www.siemens.com/automation

or

www.siemens.com/drives

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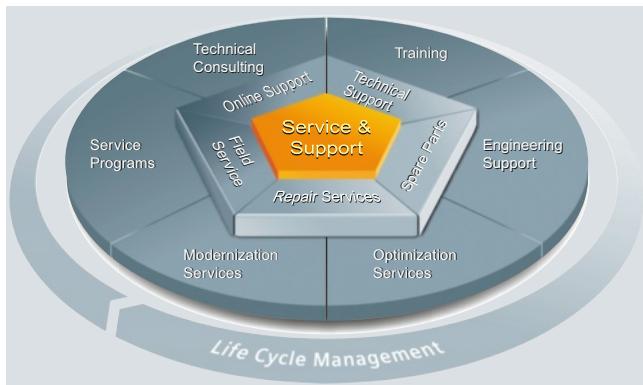
We are also constantly expanding our offering of cross-platform apps for smartphones and tablets. You will find the current Siemens apps at the app store (iOS) or at Google Play (Android).

The Siemens app, for example, tells you all about the history, latest developments and future plans of the company – with informative pictures, fascinating reports and the most recent press releases.

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

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

Training



Extend your lead – with practise-related know-how straight from the manufacturer.

www.siemens.com/lowvoltage/training

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

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

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/mall

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
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Product training

SITRAIN portal	Comprehensive training program about our products, systems and engineering tools: www.siemens.com/lowvoltage/training
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Product hotline

Technical Support	Support for all technical queries about our products: E-mail: support.automation@siemens.com www.siemens.com/lowvoltage/technical-support
--------------------------	---

Appendix

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

Overview

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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3NP1			
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3NP1923-1BD00	6/18, 6/33	N	N
3NP1923-1GB20	6/33	N	N
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8GB1373-3	1/3	N	N
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8GK6755			
8GK6755-4KK23	5/6	N	N
8GK6755-4KK33	5/6	N	N
8GK6756			
8GK6756-2KK33	5/6	N	N
8GK6850			
8GK6850-0KK00	4/6, 4/9, 4/10	N	N
8GK6850-0KK01	4/6, 4/9, 4/10	N	N
8GK6850-0KK02	4/6	N	N
8GK6850-0KK03	4/6	N	N
8GK6850-0KK04	4/6	N	N
8GK6850-0KK05	4/6	N	N
8GK6850-0KK06	4/6	N	N
8GK9120			
8GK9120-0KK10	5/14	N	N
8GK9120-0KK11	2/5, 5/14	N	N
8GK9120-0KK20	5/14	N	N

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Order No.	Page	Export markings	
		ECCN	AL
8GK9120-0KK30	5/14	N	N
8GK9120-8KK00	3/9	N	N
8GK9120-8KK01	3/9	N	N
8GK9120-8KK02	3/9	N	N
8GK9122			
8GK9122-4KK01	3/13	N	N
8GK9122-5KK01	3/13	N	N
8GK9122-6KK01	3/13	N	N
8GK9122-7KK01	3/13	N	N
8GK9122-8KK03	3/15	N	N
8GK9122-8KK04	3/15	N	N
8GK9122-8KK05	3/15	N	N
8GK9122-8KK06	3/15	N	N
8GK9122-8KK07	3/15	N	N
8GK9122			
8GK9122-8KK08	3/15	N	N
8GK9125			
8GK9125-7KK01	3/7, 3/13	N	N
8GK9125-8KK11	3/9, 3/15	N	N
8GK9125-8KK12	3/9, 3/15	N	N
8GK9125-8KK13	3/9, 3/15	N	N
8GK9126			
8GK9126-3KK00	5/14	N	N
8GK9126-4KK00	5/14	N	N
8GK9126-5KK00	5/14	N	N
8GK9126-6KK00	5/14	N	N
8GK9126-7KK00	5/14	N	N
8GK9126-8KK00	5/14	N	N
8GK9126-8KK01	5/14	N	N
8GK9126-8KK02	5/14	N	N
8GK9126-8KK03	5/8	N	N
8GK9126-8KK04	5/8	N	N
8GK9126-8KK05	5/8	N	N
8GK9127			
8GK9127-0KK01	5/14	N	N
8GK9127-0KK02	5/14	N	N
8GK9127-0KK03	5/14	N	N
8GK9127-0KK04	5/14	N	N
8GK9127-0KK05	5/14	N	N
8GK9127-8KK01	3/7, 3/13	N	N
8GK9200			
8GK9200-8KK00	4/5	N	N
8GK9200-8KK01	4/5	N	N
8GK9200-8KK04	4/5	N	N
8GK9200-8KK05	4/5	N	N
8GK9200-8KK07	4/5	N	N
8GK9200-8KK08	4/5	N	N
8GK9505			
8GK9505-3KK20	3/6	N	N
8GK9505-4KK20	3/6, 3/12	N	N
8GK9505-5KK20	3/6	N	N
8GK9505-5KK23	3/12	N	N
8GK9505-6KK20	3/6	N	N

Order No.	Page	Export markings	
		ECCN	AL
8GK9505-6KK23	3/12, 3/13	N	N
8GK9505-6KK30	3/6	N	N
8GK9505-6KK33	3/12	N	N
8GK9505-7KK20	3/6	N	N
8GK9505-7KK23	3/12, 3/13	N	N
8GK9505-7KK30	3/6	N	N
8GK9505-7KK33	3/12	N	N
8GK9505-8KK10	3/8, 3/14, 4/4	N	N
8GK9505-8KK11	3/8, 3/14	N	N
8GK9505-8KK12	3/8, 3/14, 4/4	N	N
8GK9505-8KK20	3/8, 3/9, 3/14, 3/15	N	N
8GK9505-8KK21	3/8, 3/9, 3/14, 3/15, 4/4, 4/5	N	N
8GK9505-8KK22	3/8, 3/9, 3/14, 3/15, 4/4, 4/5	N	N
8GK9505-8KK30	3/8, 3/14	N	N
8GK9505-8KK31	3/8, 3/14, 4/4	N	N
8GK9505-8KK32	3/8, 3/14, 4/4	N	N
8GK9507			
8GK9507-2KK23	3/6	N	N
8GK9507-4KK23	3/6, 3/12	N	N
8GK9507-5KK23	3/6, 3/12	N	N
8GK9507-7KK23	3/6, 3/7, 3/12, 3/13	N	N
8GK9507-7KK33	3/6, 3/12	N	N
8GK9507-8KK20	3/8, 3/9, 3/14, 3/15	N	N
8GK9507-8KK21	3/8, 3/9, 3/14, 3/15, 4/4, 4/5	N	N
8GK9507-8KK22	3/8, 3/9, 3/14, 3/15, 4/4, 4/5	N	N
8GK9507-8KK23	3/6, 3/7, 3/12, 3/13	N	N
8GK9507-8KK30	3/8, 3/14	N	N
8GK9507-8KK31	3/8, 3/14, 4/4	N	N
8GK9507-8KK32	3/8, 3/14, 4/4	N	N
8GK9507-8KK33	3/6, 3/12	N	N
8GK9515			
8GK9515-3KK20	3/6	N	N
8GK9515-4KK20	3/6, 3/12	N	N
8GK9515-5KK20	3/6	N	N
8GK9515-5KK23	3/12	N	N
8GK9515-6KK20	3/6	N	N
8GK9515-6KK23	3/12	N	N
8GK9515-6KK30	3/6	N	N
8GK9515-6KK33	3/12	N	N
8GK9515-6KK40	3/6, 3/7	N	N
8GK9515-6KK43	3/12, 3/13	N	N
8GK9515-7KK20	3/6	N	N
8GK9515-7KK23	3/12	N	N
8GK9515-7KK30	3/6	N	N
8GK9515-7KK33	3/12	N	N
8GK9515-7KK40	3/6, 3/7	N	N
8GK9515-7KK43	3/12, 3/13	N	N

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		ECCN	AL
8GK9515-8KK20	3/8, 3/14	N	N
8GK9515-8KK21	3/8, 3/14, 4/4	N	N
8GK9515-8KK22	3/8, 3/14, 4/4	N	N
8GK9515-8KK30	3/8, 3/14	N	N
8GK9515-8KK31	3/8, 3/14, 4/4	N	N
8GK9515-8KK32	3/8, 3/14, 4/4	N	N
8GK9515-8KK40	3/8, 3/9, 3/14, 3/15	N	N
8GK9515-8KK41	3/8, 3/9, 3/14, 3/15, 4/4, 4/5	N	N
8GK9515-8KK42	3/8, 3/9, 3/14, 3/15, 4/4, 4/5	N	N
8GK9525			
8GK9525-0KK03	5/10	N	N
8GK9525-0KK13	5/10	N	N
8GK9525-0KK23	5/10	N	N
8GK9525-0KK33	5/10	N	N
8GK9525-5KK03	5/10	N	N
8GK9525-6KK03	5/10	N	N
8GK9525-7KK03	5/10	N	N
8GK9525-8KK03	5/10	N	N
8GK9525-8KK13	5/10	N	N
8GK9525-8KK23	5/10	N	N
8GK9526			
8GK9526-0KK00	5/10	N	N
8GK9526-0KK01	5/10	N	N
8GK9526-0KK02	5/10	N	N
8GK9526-0KK03	5/10	N	N
8GK9526-0KK04	5/10	N	N
8GK9526-0KK05	5/10	N	N
8GK9526-0KK06	5/10	N	N
8GK9526-0KK07	5/10	N	N
8GK9526-0KK08	5/10	N	N
8GK9527			
8GK9527-0KK00	5/10	N	N
8GK9527-0KK01	5/10	N	N
8GK9527-0KK02	5/10	N	N
8GK9527-0KK03	5/10	N	N
8GK9527-0KK05	5/10	N	N
8GK9535			
8GK9535-4KK21	5/10	N	N
8GK9535-5KK21	5/10	N	N
8GK9535-8KK23	5/10	N	N
8GK9535-8KK24	5/10	N	N
8GK9535-8KK25	5/10	N	N
8GK9535-8KK26	5/10	N	N
8GK9535-8KK34	5/10	N	N
8GK9535-8KK35	5/10	N	N
8GK9536			
8GK9536-7KK21	5/10	N	N
8GK9536-7KK31	5/10	N	N
8GK9537			
8GK9537-8KK21	5/10	N	N
8GK9537-8KK31	5/10	N	N
8GK9560			

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		ECCN	AL
8GK9560-0KK04	2/6, 5/12	N	N
8GK9560-0KK05	5/12	N	N
8GK9560-0KK06	2/6, 5/13	N	N
8GK9560-0KK07	2/6, 5/13	N	N
8GK9561			
8GK9561-0KK00	5/13	N	N
8GK9561-0KK01	5/13	N	N
8GK9561-0KK02	5/13	N	N
8GK9562			
8GK9562-0KK00	5/14	N	N
8GK9606			
8GK9606-2KK10	5/7	N	N
8GK9606-4KK10	3/7, 3/13, 5/7	N	N
8GK9606-5KK10	3/9, 3/15, 4/5, 5/7	N	N
8GK9606-7KK10	3/7, 3/9, 3/13, 3/15, 4/5, 5/7	N	N
8GK9607			
8GK9607-1KK10	5/7	N	N
8GK9607-2KK10	5/7	N	N
8GK9607-4KK10	5/7	N	N
8GK9607-5KK10	3/9, 3/15, 4/5, 5/7	N	N
8GK9607-7KK10	3/9, 3/15, 4/5, 5/7	N	N
8GK9608			
8GK9608-1KK20	2/5, 5/9	N	N
8GK9608-1KK22	2/5, 4/9, 4/10, 5/9	N	N
8GK9608-1KK30	5/9	N	N
8GK9608-1KK32	5/9	N	N
8GK9608-2KK20	2/5, 5/9	N	N
8GK9608-2KK22	2/5, 5/9	N	N
8GK9608-2KK30	5/9	N	N
8GK9608-2KK32	5/9	N	N
8GK9608-3KK22	2/5, 5/9	N	N
8GK9608-4KK20	2/5, 5/9	N	N
8GK9608-4KK30	5/9	N	N
8GK9610			
8GK9610-1KK20	5/7	N	N
8GK9610-1KK30	5/7	N	N
8GK9611			
8GK9611-1KK20	5/7	N	N
8GK9611-1KK30	5/7	N	N
8GK9612			
8GK9612-1KK20	5/7	N	N
8GK9612-1KK30	5/7	N	N
8GK9613			
8GK9613-1KK20	5/7	N	N
8GK9613-1KK30	5/7	N	N
8GK9620			
8GK9620-1KK20	2/5, 5/7	N	N
8GK9620-1KK30	5/7	N	N
8GK9621			
8GK9621-1KK20	2/5, 5/7	N	N
8GK9621-1KK30	5/7	N	N
8GK9622			
8GK9622-1KK20	2/5, 5/7	N	N

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		ECCN	AL
8GK9622-1KK30	5/7	N	N
8GK9622-2KK20	2/5, 5/7	N	N
8GK9622-2KK30	5/7	N	N
8GK9622-4KK20	2/5, 5/7	N	N
8GK9622-4KK30	5/7	N	N
8GK9622-5KK20	2/5, 5/7	N	N
8GK9622-5KK30	5/7	N	N
8GK9623			
8GK9623-1KK20	2/5, 5/7	N	N
8GK9623-1KK30	5/7	N	N
8GK9630			
8GK9630-1KK20	5/7	N	N
8GK9631			
8GK9631-1KK20	5/7	N	N
8GK9632			
8GK9632-1KK20	5/8	N	N
8GK9633			
8GK9633-1KK20	5/8	N	N
8GK9635			
8GK9635-5KK20	5/8	N	N
8GK9635-5KK30	5/8	N	N
8GK9636			
8GK9636-7KK20	5/8	N	N
8GK9636-7KK30	5/8	N	N
8GK9750			
8GK9750-0KK00	4/12	N	N
8GK9750-0KK01	4/9, 4/10	N	N
8GK9750-0KK02	4/9, 4/10	N	N
8GK9790			
8GK9790-0KK00	4/12	N	N
8GK9790-0KK01	4/12	N	N
8GK9906			
8GK9906-0KK13	3/9, 3/16	N	N
8GK9906-0KK15	4/5	N	N
8GK9906-0KK23	3/7, 3/9, 3/13, 3/16	N	N
8GK9906-0KK25	4/5	N	N
8GK9906-0KK33	3/9, 3/13, 3/16	N	N
8GK9906-0KK35	4/5	N	N
8GK9910			
8GK9910-0KK00	5/15	N	N
8GK9920			
8GK9920-0KK01	4/6	N	N
8GK9920-0KK10	2/5, 3/20, 4/11	N	N
8GK9920-0KK11	2/5	N	N
8GK9920-0KK13	3/20, 4/11	N	N
8GK9920-0KK24	5/14	N	N
8GK9920-0KK26	5/15	N	N
8GK9920-0KK27	5/15	N	N
8GK9920-0KK28	5/12	N	N
8GK9920-0KK31	5/15	N	N
8GK9920-0KK32	5/15	N	N
8GK9920-0KK33	5/15	N	N
8GK9920-0KK35	3/19, 4/9, 4/10, 5/8	N	N
8GK9920-0KK36	3/19, 4/9, 4/10, 5/8	N	N

Order No.	Page	Export markings	
		ECCN	AL
8GK9920-0KK37	3/19, 4/12	N	N
8GK9920-0KK38	3/19, 4/12	N	N
8GK9920-0KK40	3/9, 3/16	N	N
8GK9920-0KK41	3/7, 3/9, 3/13, 3/16	N	N
8GK9920-0KK42	3/7, 3/9, 3/13, 3/16	N	N
8GK9920-0KK43	5/14	N	N
8GK9920-0KK44	5/14	N	N
8GK9920-0KK45	5/14	N	N
8GK9920-0KK46	5/14	N	N
8GK9988			
8GK9988-0KL00	3/17	N	N
8GK9988-0KL01	3/17	N	N
8GK9988-0KL02	3/17	N	N
8HC3			
8HC3510	6/42	N	N
8HC3800	6/42	N	N
8HC6			
8HC6900	6/37	N	N
8HE8			
8HE8541	6/38	N	N
8HP11..			
8HP1101	6/10	N	N
8HP1102	6/10	N	N
8HP1103	6/10	N	N
8HP1104	6/10, 6/27	N	N
8HP1107	6/10	N	N
8HP12..			
8HP1201	6/10	N	N
8HP1202	6/10	N	N
8HP1203	6/10	N	N
8HP1204	6/10, 6/27	N	N
8HP1212	6/10	N	N
8HP1221	6/10	N	N
8HP1222	6/10	N	N
8HP1223	6/10	N	N
8HP1224	6/10	N	N
8HP1227	6/10	N	N
8HP1232	6/10	N	N
8HP1247	6/10	N	N
8HP1283	6/10	N	N
8HP1284	6/10, 6/27	N	N
8HP13..			
8HP1331	6/12	N	N
8HP1351	6/12	N	N
8HP1352	6/12	N	N
8HP1353	6/12	N	N
8HP1354	6/12	N	N
8HP14..			
8HP1440	6/12	N	N
8HP15..			
8HP1500	6/30, 6/36	N	N
8HP1511-1	6/36	N	N
8HP1512-1	6/36	N	N

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		ECCN	AL
8HP1513-1	6/36	N	N
8HP1520	6/37	N	N
8HP1525	6/37	N	N
8HP1530	6/37	N	N
8HP1541	6/30, 6/36	N	9I999
8HP1542	6/36	N	9I999
8HP17..			
8HP1700	6/30	N	N
8HP1701	6/30	N	N
8HP1703	6/30	N	N
8HP1704	6/30	N	N
8HP1708	6/30	N	N
8HP1724	6/35	N	N
8HP1728	6/35	N	N
8HP1783	6/32	N	N
8HP1784	6/32	N	N
8HP1785	6/32	N	N
8HP1786	6/32	N	N
8HP1793	6/32	N	N
8HP1794	6/32	N	N
8HP1795	6/32	N	N
8HP1796	6/32	N	N
8HP18..			
8HP1805	6/37	N	N
8HP1806	6/37	N	N
8HP1807	6/37	N	N
8HP1808	6/37	N	N
8HP1810	6/38	N	N
8HP1811	6/37	N	N
8HP1813	6/38	N	N
8HP1815	6/22, 6/38	N	N
8HP1898	6/43	N	N
8HP20..			
8HP2001	6/9	N	N
8HP2002	6/9	N	N
8HP2003	6/9	N	N
8HP2004	6/9	N	N
8HP2012	6/9	N	N
8HP2021	6/9	N	N
8HP2022	6/9	N	N
8HP2023	6/9	N	N
8HP2024	6/9	N	N
8HP2027	6/9	N	N
8HP2032	6/9	N	N
8HP2047	6/9	N	N

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		ECCN	AL
8HP21..			
8HP2122	6/15	N	N
8HP2125	6/15	N	N
8HP2130	6/15	N	N
8HP2131	6/15	N	N
8HP2133	6/15	N	N
8HP2137	6/15	N	N
8HP2157	6/15	N	N
8HP22..			
8HP2200-1	6/29	N	N
8HP2200-2	6/29	N	N
8HP2200-3	6/29	N	N
8HP2200-4	6/29	N	N
8HP2201-1	6/29	N	N
8HP2201-2	6/29	N	N
8HP2201-3	6/29	N	N
8HP2201-4	6/29	N	N
8HP2202-1	6/29	N	N
8HP2202-2	6/29	N	N
8HP2202-3	6/29	N	N
8HP2202-4	6/29	N	N
8HP2203-1	6/29	N	N
8HP2203-2	6/29	N	N
8HP2203-3	6/29	N	N
8HP2203-4	6/29	N	N
8HP23..			
8HP2301	6/20	N	N
8HP2311	6/20	N	N
8HP2312	6/20	N	N
8HP2313	6/20	N	N
8HP2314	6/20	N	N
8HP2315	6/20	N	N
8HP24..			
8HP2450	6/17	N	N
8HP2451	6/17	N	N
8HP2452	6/17	N	N
8HP2453	6/17	N	N
8HP2454	6/17	N	N
8HP2455	6/17	N	N

A product's export markings are updated daily at www.siemens.com/industrymall.

Appendix

Conditions of sale and delivery

Overview

By using this catalog you can acquire hardware and software products described therein from Siemens AG subject to the following terms. Please note! The scope, the quality and the conditions for supplies and services, including software products, by any Siemens entity having a registered office outside of Germany, shall be subject exclusively to the General Terms and Conditions of the respective Siemens entity. The following terms apply exclusively for orders placed with Siemens AG.

For customers with a seat or registered office in Germany

The "General Terms of Payment" as well as the "General Conditions for the Supply of Products and Services of the Electrical and Electronics Industry" shall apply.

For software products, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or registered Office in Germany" shall apply.

For customers with a seat or registered office outside of Germany

The "General Terms of Payment" as well as the "General Conditions for Supplies of Siemens, Automation and Drives for Customers with a Seat or registered Office outside of Germany" shall apply.

For software products, the "General License Conditions for Software Products for Automation and Drives for Customers with a Seat or registered Office outside of Germany" shall apply.

General

The dimensions are in mm. In Germany, according to the German law on units in measuring technology, data in inches only apply to devices for export.

Illustrations are not binding.

Insofar as there are no remarks on the corresponding pages, - especially with regard to data, dimensions and weights given - these are subject to change without prior notice.

The prices are in € (Euro) ex works, exclusive packaging.

The sales tax (value added tax) is not included in the prices. It shall be debited separately at the respective rate according to the applicable legal regulations.

Prices are subject to change without prior notice. We will debit the prices valid at the time of delivery.

Surcharges will be added to the prices of products that contain silver, copper, aluminum, lead and/or gold if the respective basic official prices for these metals are exceeded. These surcharges will be determined based on the official price and the metal factor of the respective product.

The surcharge will be calculated on the basis of the official price on the day prior to receipt of the order or prior to the release order.

The metal factor determines the official price as of which the metal surcharges are charged and the calculation method used. The metal factor, provided it is relevant, is included with the price information of the respective products.

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

in the Internet under

www.siemens.com/automation/salesmaterial-as/catalog/en/terms_of_trade_en.pdf

Export regulations

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Therefore, any export requiring a license is subject to approval by the competent authorities.

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AL	Number of the <u>German Export List</u> Products marked other than "N" require an export license. In the case of software products, the export designations of the relevant data medium must also be generally adhered to. Goods labeled with an "AL" not equal to "N" are subject to European or German export authorization when being exported out of the EU.
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In addition, you can preview the export designations via our "Industry Mall" online catalog system in the respective product description. The deciding factors are the AL or ECCN export authorization indicated on order confirmations, delivery notes and invoices.

Errors excepted and subject to change without prior notice.

Catalogs

Industry Automation, Drive Technologies and Low-Voltage Power Distribution

Further information can be obtained from our branch offices
listed at www.siemens.com/automation/partner

System Solutions for Industry Interactive Catalog on DVD	<i>Catalog</i>	
Products for Automation and Drives and Low-Voltage Power Distribution and Electrical Installation Technology	CA 01	
Building Control GAMMA Building Control	ET G1	
Drive Systems SINAMICS G130 Drive Converter Chassis Units SINAMICS G150 Drive Converter Cabinet Units SINAMICS GM150, SINAMICS SM150 Medium-Voltage Converters ROBICON Perfect Harmony Medium-Voltage Air-Cooled Drives Germany Edition <i>Digital:</i> SINAMICS G180 Converters – Compact Units, Cabinet Systems, Cabinet Units Air-Cooled and Liquid-Cooled SINAMICS S120 Chassis Format Units and Cabinet Modules SINAMICS S150 Converter Cabinet Units SINAMICS DCM Converter Units SINAMICS DCM Cabinet SINAMICS and Motors for Single-Axis Drives Three-Phase Induction Motors SIMOTICS HV, SIMOTICS TN • Series H-compact • Series H-compact PLUS Asynchronous Motors Standardline Synchronous Motors with Permanent-Magnet Technology, HT-direct DC Motors SIMOREG DC MASTER 6RA70 Digital Chassis Converters SIMOREG K 6RA22 Analog Chassis Converters <i>Digital:</i> SIMOREG DC MASTER 6RM70 Digital Converter Cabinet Units SIMOVERT PM Modular Converter Systems SIEMOSYN Motors MICROMASTER 420/430/440 Inverters MICROMASTER 411/COMBIMASTER 411 SIMOVERT MASTERDRIVES Vector Control SIMOVERT MASTERDRIVES Motion Control Synchronous and asynchronous servomotors for SIMOVERT MASTERDRIVES SIMODRIVE 611 universal and POSMO <i>Note:</i> Additional catalogs on SIMODRIVE or SINAMICS drive systems and SIMOTICS motors with SINUMERIK and SIMOTION can be found under Motion Control	D 11 D 12 D 15.1 D 18.1 D 21.3 D 23.1 D 23.2 D 31 D 84.1 D 86.1 D 86.2 DA 12 DA 21.1 DA 21.2 DA 22 DA 45 DA 48 DA 51.2 DA 51.3 DA 65.10 DA 65.11 DA 65.3 DA 65.4	CA 01
Low-Voltage Power Distribution and Electrical Installation Technology SENTRON Protection, Switching, Measuring and Monitoring Devices SIVACON · ALPHA Switchboards and Distribution Systems Standard-Compliant Components for Photovoltaic Systems Controls and Components for Applications acc. to UL 3WT Air Circuit Breakers up to 4000 A 3VT Molded Case Circuit Breakers up to 1600 A <i>Digital:</i> SIVACON System Cubicles, System Lighting and System Air-Conditioning <i>Digital:</i> ALPHA Distribution Systems ALPHA FIX Terminal Blocks SIVACON S4 Power Distribution Boards SIVACON 8PS Busbar Trunking Systems <i>Digital:</i> DELTA Switches and Socket Outlets		LV 10.1 LV 10.2 LV 11 LV 16 LV 35 LV 36 LV 50 LV 51 LV 52 LV 56 LV 70 ET D1
Motion Control SINUMERIK & SIMODRIVE Automation Systems for Machine Tools SINUMERIK & SINAMICS Equipment for Machine Tools SINUMERIK 840D sl Type 1B Equipment for Machine Tools SINUMERIK 808D, SINAMICS V60 and G120, SIMOTICS 1FL5 and 1LE1 SINUMERIK 828D BASIC T/BASIC M, SINAMICS S120 Combi, 1FK7 and 1PH8 motors SIMOTION, SINAMICS S120 & SIMOTICS Equipment for Production Machines Drive and Control Components for Cranes		NC 60 NC 61 NC 62 NC 81.1 NC 82 PM 21 CR 1
Power Supply and System Cabling Power supply SITOP		KT 10.1
Safety Integrated Safety Technology for Factory Automation		SI 10
SIMATIC HMI/PC-based Automation Human Machine Interface Systems/ PC-based Automation		ST 80/ ST PC
SIMATIC Ident Industrial Identification Systems		ID 10
SIMATIC Industrial Automation Systems Products for Totally Integrated Automation SIMATIC PCS 7 Process Control System Add-ons for the SIMATIC PCS 7 Process Control System <i>Digital:</i> Migration solutions with the SIMATIC PCS 7 Process Control System		ST 70 ST PCS 7 ST PCS 7.1 ST PCS 7.2
SIMATIC NET Industrial Communication		IK PI
SINVERT Photovoltaics Inverters and Components for Photovoltaic Installations		RE 10
SIRIUS Industrial Controls SIRIUS Industrial Controls		IC 10
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Siemens AG
Infrastructure & Cities Sector
Low and Medium Voltage Division
Low Voltage & Products
Postfach 10 09 53
93009 REGENSBURG
GERMANY

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