

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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E86060-K1870-A101-A6-7600



Products for Automation and Drives CA 01
Interactive Catalog

DVD: E86060-D4001-A510-D2-7600



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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

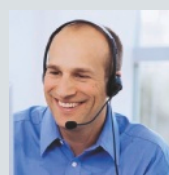
Busbar Trunking Systems, Overview • CD-K System – 25 A ... 40 A • BD 01 System – 40 A ... 160 A • BD2 System – 160 A ... 1250 A

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.

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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.

With commercial data valid for German Headquarters as of July 2013

Supersedes:
 Catalog LV 51 · 2012

Refer to the Industry Mall for current updates of this catalog:
www.siemens.com/industrymall

The products contained in this catalog can also be found in the Interactive Catalog CA 01.
 Order No.:
 E86060-D4001-A510-D2-7600

Please contact your local Siemens branch.

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NF Technology	SIMBOX WP Small Distribution Boards	1
	ALPHA 125 UNIVERSAL Distribution Boards	2
	ALPHA 630 UNIVERSAL Distribution Boards	3
	ALPHA AS 800 UNIVERSAL Distribution Boards	4
	Assembly Kits / Accessories for ALPHA UNIVERSAL Distribution Boards	5
	ALPHA 8HP Molded-plastic Distribution Systems	6
	Appendix	7

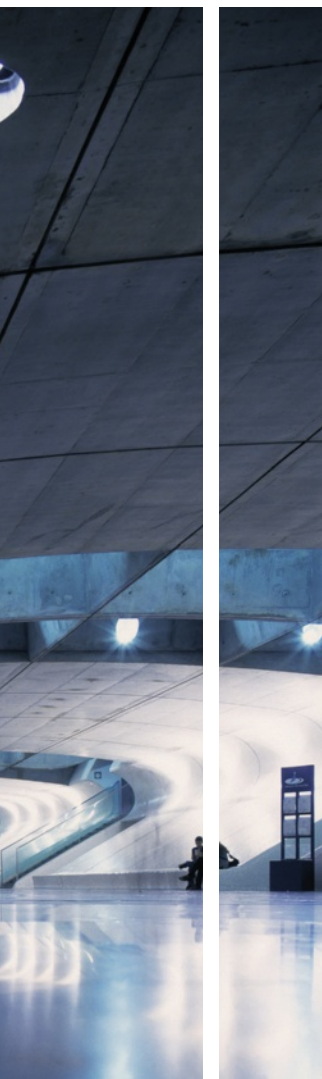


The right one for everyone

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.

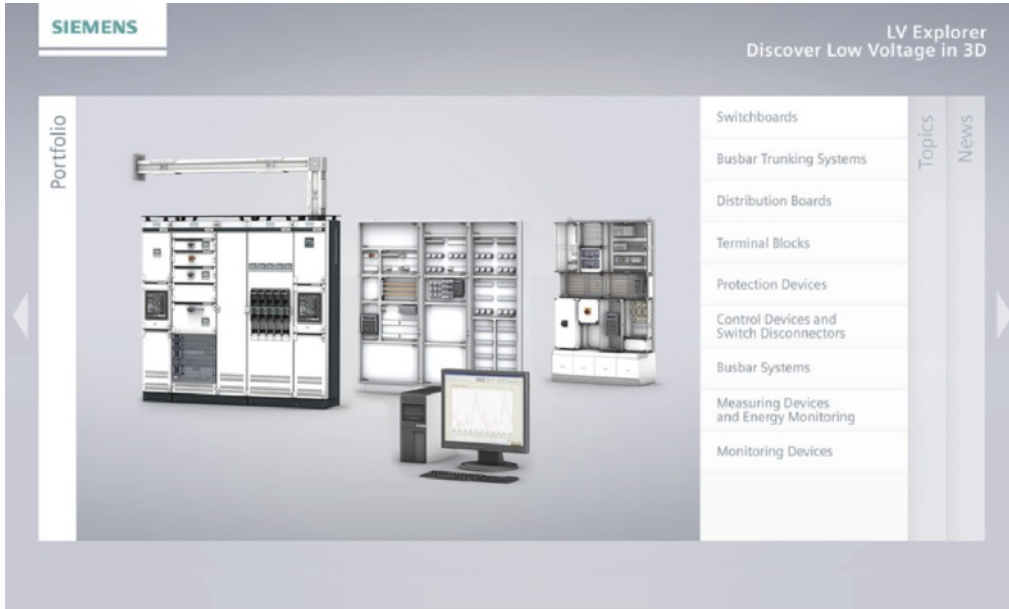
Everything for power distribution

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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 Get comprehensive and specific information about our products using our 3D animations, trailers and technical information.

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

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www.siemens.com/lowvoltage/support

SIMBOX WP

Small Distribution Boards

1



1/2	Introduction
1/3	Surface-mounting distribution boards
1/4	Accessories
1/5	Dimensional drawings

1

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- 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.

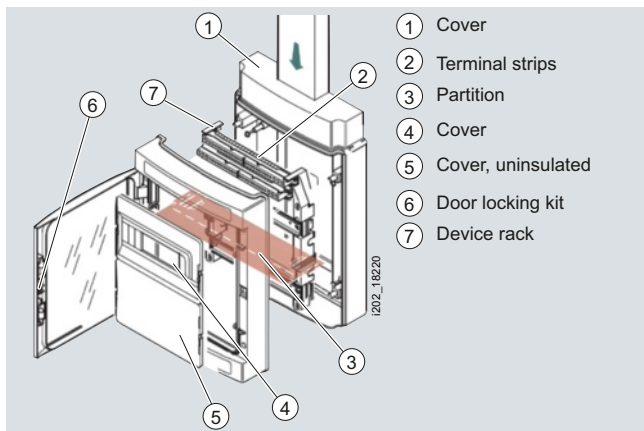
Special applications

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.

Overview

**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 0.579
					1 unit 0.808
					1 unit 1.677
					1 unit 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 2.546
					1 unit 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




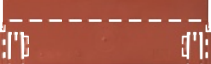
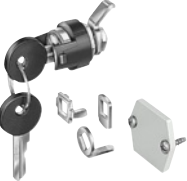

¹⁾ Not included in scope of delivery of the device.

SIMBOX WP Small Distribution Boards

Accessories

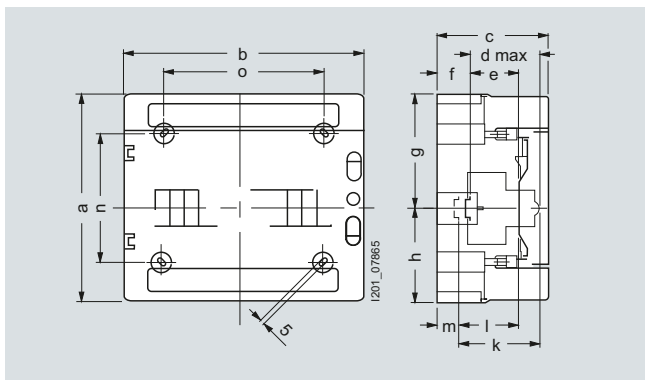
1

Selection and ordering data

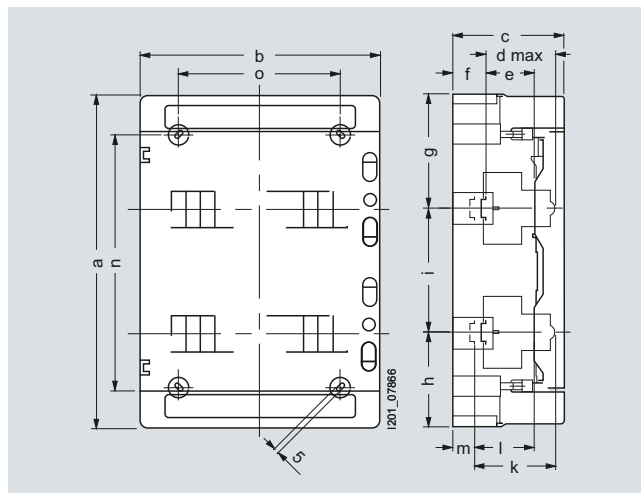
Version	DT	Order No.	PS*/ P. unit	Weight per PU approx. kg
① Covers <ul style="list-style-type: none"> For connection of conduit and cable duct entries Convenient snap-on mounting on the distribution board 				
 8GB2051-0				
MW				
• 12		8GB2051-0	20 units	0.131
• 18		8GB2051-1	20 units	0.197
② N/PE terminal strips For snapping onto equipment rack				
 8GB2052-0				
MW	N			
• 8	1 × 25 mm ² + 7 × 10 mm ²	1 × 25 mm ² + 7 × 10 mm ²	8GB2052-0	10 units 0.169
• 12	3 × 25 mm ² + 10 × 10 mm ²	3 × 25 mm ² + 10 × 10 mm ²	8GB2052-1	10 units 0.256
• 18	5 × 25 mm ² + 14 × 10 mm ²	5 × 25 mm ² + 14 × 10 mm ²	8GB2052-2	10 units 0.391
③ Inner partitions Horizontal				
 8GB2053-0				
MW				
• 12			8GB2053-0	10 units 0.055
• 18			8GB2053-1	10 units 0.098
⑤ Front covers				
MW				
• 12			8GB2054-0	20 units 0.083
• 18			8GB2054-1	20 units 0.213
⑥ Safety cylinder locks <ul style="list-style-type: none"> With key Made of metal 				
 8GB2055-0			8GB2055-0	10 units 0.045
Blanking strips <ul style="list-style-type: none"> 12 MW wide Color: gray Knockouts enable easy cutting to required length With increased flame protection up to 850°C 				
 8GB4671			8GB4671	10 units 0.042

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

1

ALPHA 125 UNIVERSAL Distribution Boards

2



2/2	Introduction
2/3	Surface-mounting distribution boards
2/4	Flush-mounting distribution boards
2/5	Covers and accessories

2

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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


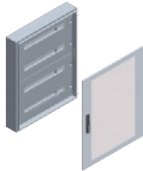
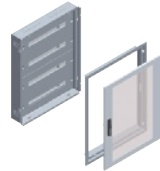
- Easy planning thanks to modular design.
- Complete product range that meets all installation requirements.
- Fast mounting thanks to prefitted standard mounting rails and new covers, for stand-alone or modular installation devices; supplied with our new quick-lock screws.
- All cabinets are supplied 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

IP30 without door	IP43 with door	IP31D with door	Internal dimensions in mm		Module (1 = 200 mm)	External depth
			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		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

Selection and ordering data



Internal/external dimensions		Tiers/ MW	DT	Order No.	PS*/ P. unit	Weight
Height	Width					
mm	mm					kg
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





Overview

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

Selection and ordering data




Internal/external dimensions		DT	8GK9622-2KK20	PS*/ P. unit	Weight	DT	8GK9608-1KK20	PS*/ P. unit	Weight
Height	Width		Nontransparent covers				Covers for modular installation devices		
mm	mm		Order No.		kg		Order No.		kg
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

Version	DT	Order No.	PS*/ P. unit	Weight
				kg
Individual components				
	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 × 5 mm ²)			
		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				
		8GK9560-0KK04 Made of plastic, for wall-mounted distribution boards, IP43 (replacement part)	1 unit	0.300
		8GK9560-0KK06 Can be used with E012 semicylinder insert (order with 8GK9560-0KK07 profile semicylinder)	1 unit	0.300
		E012 profile semicylinders 8GK9560 insert and key	1 unit	0.300

ALPHA 630 UNIVERSAL Distribution Boards

3



3/2	Introduction
3/4	Distribution boards, flat pack for self-assembly
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

3

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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

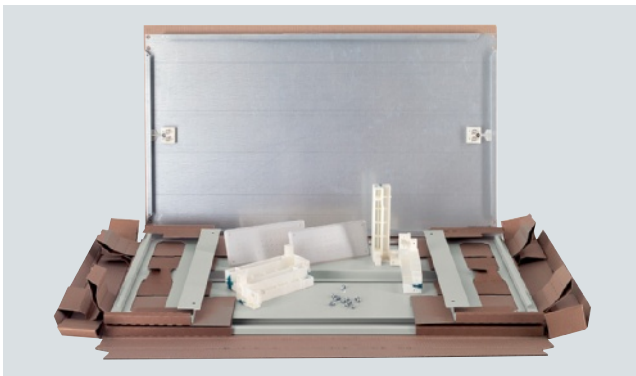
Material: Electrogalvanized and powder-coated sheet steel.

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

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.

"Platform" mounting

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


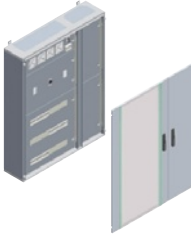



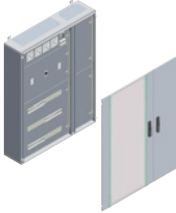

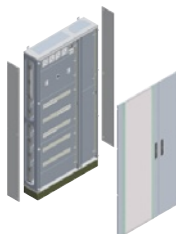
Users can mount the assembly kits (kits for molded case circuit breakers, for modular installation devices, for terminal blocks, etc.) directly onto the "platform" and, after wiring them, assemble the remaining parts of the enclosure (base plates, roof and side panels).

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.

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

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

ALPHA 630 UNIVERSAL Distribution Boards

Distribution boards, flat pack for self-assembly

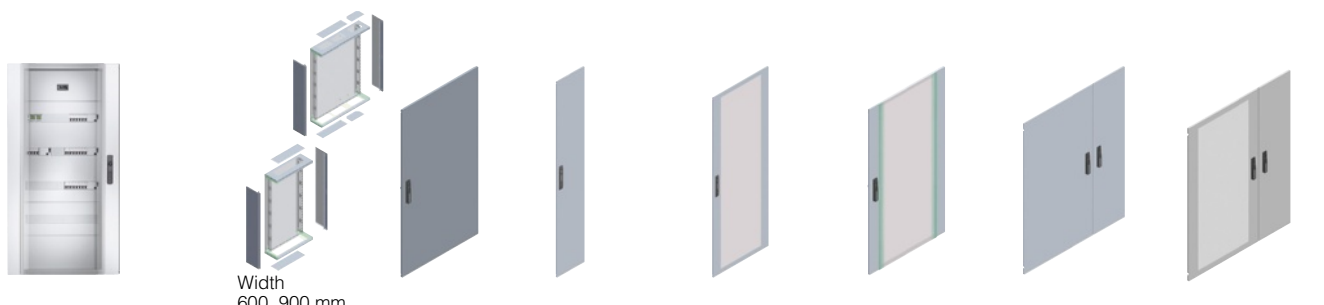
Overview

- 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.

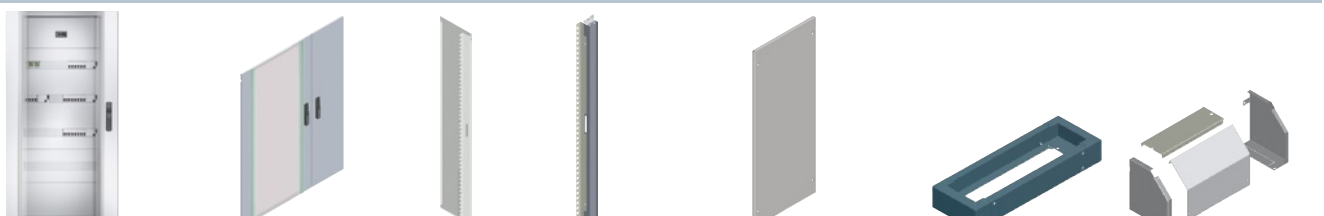
Design

Configuration options

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



Version Height x width x depth mm	Degree of protection 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 × 400 × 250	30/43	8GK2100-0KS23	8GK9515-3KK20	--	8GK9505-3KK20	8GK9507-2KK23	--	--
600 × 600 × 250	30/43	8GK2100-1KS23	8GK9515-4KK20	--	8GK9505-4KK20	8GK9507-4KK23	--	--
600 × 800 × 250	30/43	8GK2100-2KS23	8GK9515-5KK20	--	8GK9505-5KK20	8GK9507-5KK23	--	--
600 × 1000 × 250	30/43	8GK2100-3KS23	8GK9515-6KK20	--	8GK9505-6KK20	8GK9507-7KK23	--	--
600 × 1200 × 250	30/43	8GK2100-4KS23	8GK9515-7KK20	--	8GK9505-7KK20	8GK9507-8KK23	--	--
900 × 1000 × 250	30/43	8GK2100-3KL23	8GK9515-6KK30	8GK9515-6KK40	8GK9505-6KK30	8GK9507-7KK33	8GK9515-6KK20 + 8GK9515-6KK40	8GK9505-6KK20 + 8GK9515-6KK40
900 × 1200 × 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 protection 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 × 400 × 250	30/43	--	Are included in the scope of delivery	--	--	8GK9906-0KK23	8GK9920-0KK41
600 × 600 × 250	30/43	--		--	--	8GK9906-0KK23	8GK9920-0KK41
600 × 800 × 250	30/43	--		--	--	8GK9906-0KK23	8GK9920-0KK41
600 × 1000 × 250	30/43	--		--	--	8GK9906-0KK23	8GK9920-0KK41
600 × 1200 × 250	30/43	--		--	--	8GK9906-0KK23	8GK9920-0KK41
900 × 1000 × 250	30/43	8GK9507-7KK23 + 8GK9515-6KK40		8GK9125-7KK01	8GK9606-7KK10	8GK9906-0KK33	8GK9920-0KK42
900 × 1200 × 250	30/43	8GK9507-8KK23 + 8GK9515-7KK40		8GK9127-8KK01	2 × 8GK9 606-4KK10	8GK9906-0KK33	8GK9920-0KK42

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

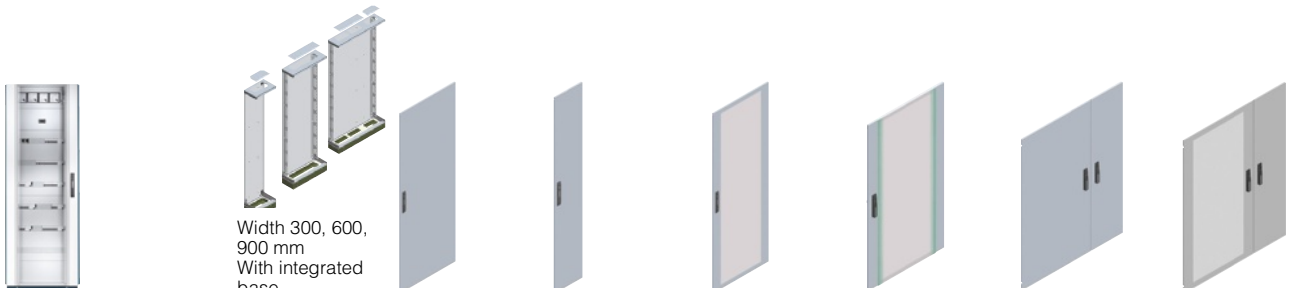
²⁾ To implement side panels with ventilation, quote Order No. 8GK9120-0KK30 (4 units)

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

ALPHA 630 UNIVERSAL Distribution Boards

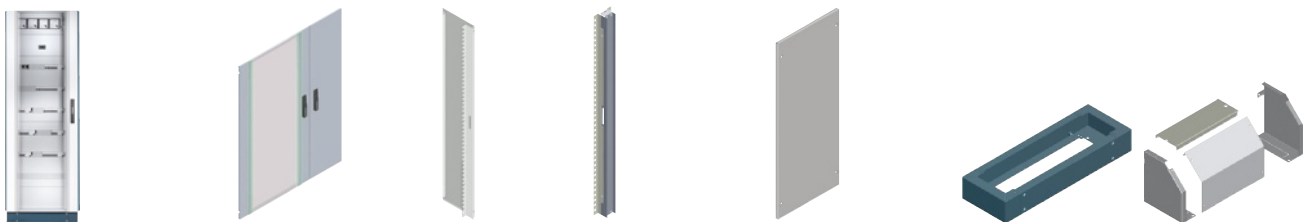
Distribution boards, flat pack for self-assembly

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



Width 300, 600, 900 mm
With integrated base

Version	Degree of protection	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⁾
Height x width x depth	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 + 8GK9515-8KK40	8GK9505-8KK20 + 8GK9515-8KK40
900 x 1800 x 250	30/43	8GK2300-6KL43	8GK9515-8KK31	8GK9515-8KK41	8GK9505-8KK31	8GK9507-8KK31	8GK9515-8KK21 + 8GK9515-8KK41	8GK9505-8KK21 + 8GK9515-8KK41
900 x 2000 x 250	30/43	8GK2300-7KL43	8GK9515-8KK32	8GK9515-8KK42	8GK9505-8KK32	8GK9507-8KK32	8GK9515-8KK22 + 8GK9515-8KK42	8GK9505-8KK22 + 8GK9515-8KK42



Version	Degree of protection	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
Height x width x depth	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 + 8GK9515-8KK41	8GK9120-8KK00	8GK9125-8KK11	2 x 8GK9606-5KK10	8GK9906-0KK33 ³⁾ *	8GK9920-0KK42
900 x 1800 x 250	30/43	8GK9507-8KK21 + 8GK9515-8KK41	8GK9120-8KK01	8GK9125-8KK12	8GK9606-5KK10 + 8GK9606-7KK10	8GK9906-0KK33 ³⁾	8GK9920-0KK42
900 x 2000 x 250	30/43	8GK9507-8KK22 + 8GK9515-8KK42	8GK9120-8KK02	8GK9125-8KK13	2 x 8GK9606-7KK10	8GK9906-0KK33 ³⁾	8GK9920-0KK42

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

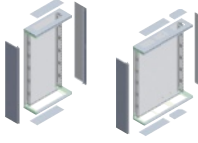






²⁾ To implement side panels with ventilation, quote Order No. 8GK9120-0KK30 (4 units)

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

ALPHA 630 UNIVERSAL Distribution Boards




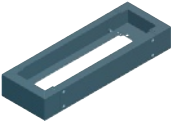
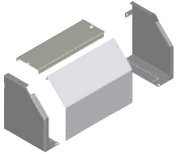
Distribution boards, flat pack for self-assembly

Selection and ordering data

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

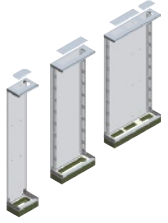





ALPHA 630 UNIVERSAL Distribution Boards

Distribution boards, flat pack for self-assembly

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


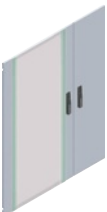



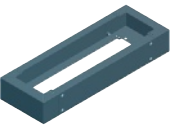
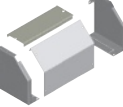
ALPHA 630 UNIVERSAL Distribution Boards

Distribution boards, flat pack for self-assembly

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

ALPHA 630 UNIVERSAL Distribution Boards

Distribution boards, flat pack for self-assembly

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	8GK9505-8KK20	1 unit	11.500
			+ 8GK9515-8KK40	1 unit	6.800
		900 × 1800 × 250	8GK9505-8KK21	1 unit	13.000
			+ 8GK9515-8KK41	1 unit	7.900
		900 × 2000 × 250	8GK9505-8KK22	1 unit	14.500
			+ 8GK9515-8KK42	1 unit	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 × 1600 × 250	8GK9507-8KK20	1 unit	11.500
			+ 8GK9515-8KK40	1 unit	6.800
		900 × 1800 × 250	8GK9507-8KK21	1 unit	13.000
			+ 8GK9515-8KK41	1 unit	7.900
		900 × 2000 × 250	8GK9507-8KK22	1 unit	14.500
			+ 8GK9515-8KK42	1 unit	9.000
Footnote					
¹⁾ For distribution boards with vertical profile bar for wiring compartment					
 8GK9120-8KK00	Side panels, RAL 7035 (pair)^{1) 2)}	300 × 1600 × 250	8GK9120-8KK00	1 set	10.500
		300 × 1800 × 250	8GK9120-8KK01	1 set	12.000
		300 × 2000 × 250	8GK9120-8KK02	1 set	13.500
		600 × 1600 × 250	8GK9120-8KK00	1 set	10.500
		600 × 1800 × 250	8GK9120-8KK01	1 set	12.000
		600 × 2000 × 250	8GK9120-8KK02	1 set	13.500
		900 × 1600 × 250	8GK9120-8KK00	1 set	10.500
		900 × 1800 × 250	8GK9120-8KK01	1 set	12.000
		900 × 2000 × 250	8GK9120-8KK02	1 set	13.500
	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.					
 8GK9125-8KK11	Vertical profile bar for wiring compartment	900 × 1600 × 250	8GK9125-8KK11	1 unit	2.500
		900 × 1800 × 250	8GK9125-8KK12	1 unit	2.800
		900 × 2000 × 250	8GK9125-8KK13	1 unit	3.200
	Cover for wiring compartment, width 250/300 mm	300 × 1600 × 250	2 × 8GK9607-5KK10	1 unit	2.500
		300 × 1800 × 250	8GK9607-5KK10	1 unit	2.500
			+ 8GK9607-7KK10	1 unit	3.000
		300 × 2000 × 250	2 × 8GK9607-7KK10	1 unit	3.000
		900 × 1600 × 250	2 × 8GK9606-5KK10	1 unit	2.400
		900 × 1800 × 250	8GK9606-5KK10	1 unit	2.400
		+ 8GK9606-7KK10	1 unit	3.000	
	900 × 2000 × 250	2 × 8GK9606-7KK10	1 unit	3.000	
 8GK9906-0KK13	Base color: blue green, height 100 mm	300 × 1600 × 250 ... 300 × 2000 × 250 ¹⁾	8GK9906-0KK13	1 unit	4.000
		600 × 1600 × 250 ... 600 × 2000 × 250 ¹⁾	8GK9906-0KK23	1 unit	5.500
		900 × 1600 × 250 ... 900 × 2000 × 250 ¹⁾	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	8GK9920-0KK40	1 unit	3.500
		600 × 1600 × 250 ... 600 × 2000 × 250	8GK9920-0KK41	1 unit	4.500
		900 × 1600 × 250 ... 900 × 2000 × 250	8GK9920-0KK42	1 unit	5.500

* You can order this quantity or a multiple thereof.

ALPHA 630 UNIVERSAL Distribution Boards

Unequipped distribution boards

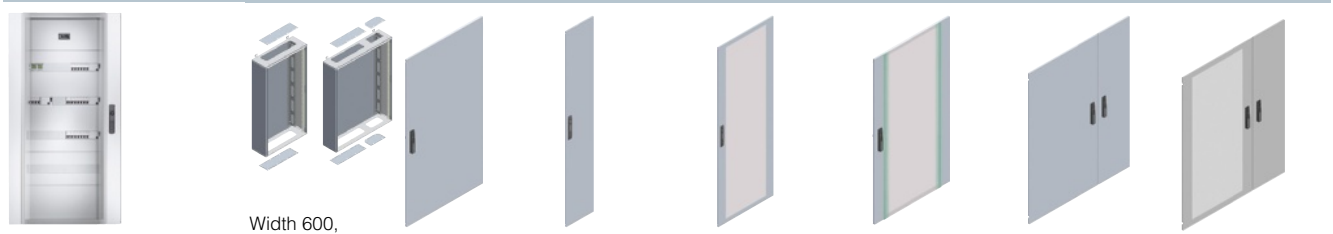
Overview

- 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.

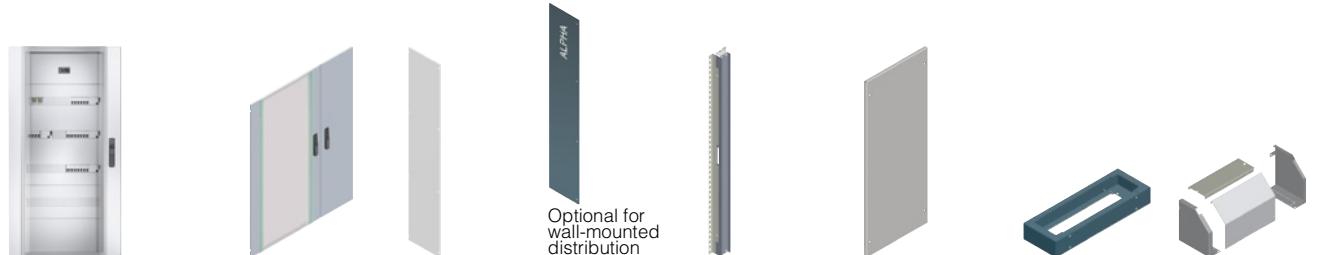
Design

Configuration options

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



Version	Height x width x depth	Degree of protection	Unequipped distribution board	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	mm	IP	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
600 × 600 × 250	30/55	30/55	8GK2124-1KK23	8GK9515-4KK20	--	8GK9505-4KK20	8GK9507-4KK23	--	--
600 × 800 × 250	30/55	30/55	8GK2124-2KK23	8GK9515-5KK23	--	8GK9505-5KK23	8GK9507-5KK23	--	--
600 × 1000 × 250	30/55	30/55	8GK2124-3KK23	8GK9515-6KK23	--	8GK9505-6KK23	8GK9507-7KK23	--	--
600 × 1200 × 250	30/55	30/55	8GK2124-4KK23	8GK9515-7KK23	--	8GK9505-7KK23	8GK9507-8KK23	--	--
900 × 1000 × 250	30/55	30/55	8GK2124-3KK33	8GK9515-6KK33	8GK9515-6KK43	8GK9505-6KK33	8GK9507-7KK33	8GK9515-6KK23 + 8GK9515-6KK43	8GK9505-6KK23 + 8GK9515-6KK43
900 × 1200 × 250	30/55	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	Degree of protection	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	Terminal box for cable entry and cable duct
mm	mm	IP	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.	Order No.
600 × 600 × 250	30/55	30/55	--	Integrated in box	8GK9122-4KK01	--	--	8GK9906-0KK23	8GK9920-0KK41
600 × 800 × 250	30/55	30/55	--	Integrated in box	8GK9122-5KK01	--	--	8GK9906-0KK23	8GK9920-0KK41
600 × 1000 × 250	30/55	30/55	--	Integrated in box	8GK9122-6KK01	--	--	8GK9906-0KK23	8GK9920-0KK41
600 × 1200 × 250	30/55	30/55	--	Integrated in box	8GK9122-7KK01	--	--	8GK9906-0KK23	8GK9920-0KK41
900 × 1000 × 250	30/55	30/55	8GK9507-7KK23 + 8GK9515-6KK43	Integrated in box	8GK9122-6KK01	8GK9125-7KK01	8GK9606-7KK10	8GK9906-0KK33	8GK9920-0KK42
900 × 1200 × 250	30/55	30/55	8GK9507-8KK23 + 8GK9515-7KK43	Integrated in box	8GK9122-6KK01	8GK9127-8KK01	2 × 8GK9606-4KK10	8GK9906-0KK33	8GK9920-0KK42

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

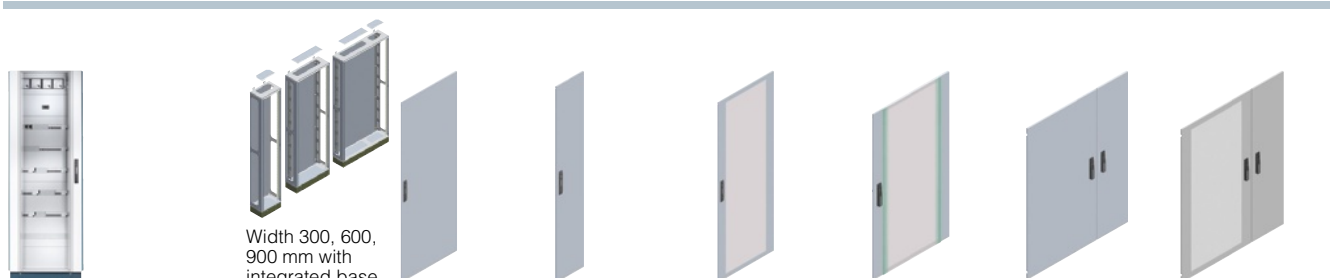
²⁾ Additional base (can be mounted on existing base)

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



Width 300, 600, 900 mm with integrated base

Version	Height x width x depth	Degree of protection	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 × 1600 × 250	30/55	8GK2325-5KK13	8GK9515-8KK10	--	8GK9505-8KK11	--	--	--
	300 × 1800 × 250	30/55	8GK2325-6KK13	8GK9515-8KK11	--	8GK9505-8KK12	--	--	--
	300 × 2000 × 250	30/55	8GK2325-7KK13	8GK9515-8KK12	--	8GK9505-8KK10	--	--	--
	600 × 1600 × 250	30/55	8GK2325-5KK23	8GK9515-8KK20	--	8GK9505-8KK20	8GK9507-8KK20	--	--
	600 × 1800 × 250	30/55	8GK2325-6KK23	8GK9515-8KK21	--	8GK9505-8KK21	8GK9507-8KK21	--	--
	600 × 2000 × 250	30/55	8GK2325-7KK23	8GK9515-8KK22	--	8GK9505-8KK22	8GK9507-8KK22	--	--
	900 × 1600 × 250	30/55	8GK2325-5KK43	8GK9515-8KK30	8GK9515-8KK40	8GK9505-8KK30	8GK9507-8KK30	8GK9515-8KK20 + 8GK9515-8KK40	8GK9505-8KK20 + 8GK9515-8KK40
	900 × 1800 × 250	30/55	8GK2325-6KK43	8GK9515-8KK31	8GK9515-8KK41	8GK9505-8KK31	8GK9507-8KK31	8GK9515-8KK21 + 8GK9515-8KK41	8GK9505-8KK21 + 8GK9515-8KK41
	900 × 2000 × 250	30/55	8GK2325-7KK43	8GK9515-8KK32	8GK9515-8KK42	8GK9505-8KK32	8GK9507-8KK32	8GK9515-8KK22 + 8GK9515-8KK42	8GK9505-8KK22 + 8GK9515-8KK42



Optional for wall-mounted distribution boards

Version	Height x width x depth	Degree of protection	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 × 1600 × 250	30/55	--	8GK9 122-8KK03	8GK9 122-8KK06	--	2 × 8GK9607-5KK10	8GK9906-0KK13	8GK9920-0KK40
	300 × 1800 × 250	30/55	--	8GK9122-8KK04	8GK9122-8KK07	--	8GK9607-5KK10 + 8GK9607-7KK10	8GK9906-0KK13	8GK9920-0KK40
	300 × 2000 × 250	30/55	--	8GK9122-8KK05	8GK9122-8KK08	--	2 × 8GK9607-7KK10	8GK9906-0KK13	8GK9920-0KK40
	600 × 1600 × 250	30/55	--	8GK9122-8KK03	8GK9122-8KK06	--	--	8GK9906-0KK23	8GK9920-0KK41
	600 × 1800 × 250	30/55	--	8GK9122-8KK04	8GK9122-8KK07	--	--	8GK9906-0KK23	8GK9920-0KK41
	600 × 2000 × 250	30/55	--	8GK9122-8KK05	8GK9122-8KK08	--	--	8GK9906-0KK23	8GK9920-0KK41
	900 × 1600 × 250	30/55	8GK9507-8KK20 + 8GK9515-8KK40	8GK9122-8KK03	8GK9122-8KK06	8GK9125-8KK11	2 × 8GK9606-5KK10	8GK9906-0KK33	8GK9920-0KK42
	900 × 1800 × 250	30/55	8GK9507-8KK21 + 8GK9515-8KK41	8GK9122-8KK04	8GK9122-8KK07	8GK9125-8KK12	8GK9606-5KK10 + 8GK9606-7KK10	8GK9906-0KK33	8GK9920-0KK42
	900 × 2000 × 250	30/55	8GK9 07-8KK22 + 8GK9515-8KK42	8GK9122-8KK05	8GK9122-8KK08	8GK9125-8KK13	2 × 8GK9606-7KK10	8GK9906-0KK33	8GK9 920-0KK42

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

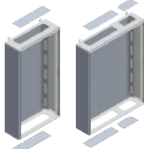





²⁾ Additional base (can be mounted on existing base)

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

ALPHA 630 UNIVERSAL Distribution Boards






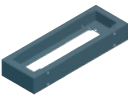
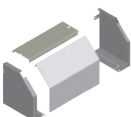
Unequipped distribution boards

Selection and ordering data

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

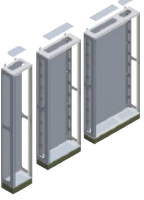





ALPHA 630 UNIVERSAL Distribution Boards

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	1 unit	7.800
			+ 8GK9515-6KK43	1 unit	4.500
	900 × 1200 × 250		8GK9505-7KK23	1 unit	9.300
			+ 8GK9515-7KK43	1 unit	5.000
Footnote	¹⁾ For distribution boards with vertical profile bar for wiring compartment				
 Transparent double door, Giugiaro design, width 600+250 mm¹⁾	900 × 1000 × 250		8GK9507-7KK23	1 unit	7.800
			+ 8GK9515-6KK43	1 unit	4.500
	900 × 1200 × 250		8GK9507-8KK23	1 unit	9.300
			+ 8GK9515-7KK43	1 unit	5.000
Footnote	¹⁾ For distribution boards with vertical profile bar for wiring compartment				
 Side panels, color: blue green (pair)	600 × 600 × 250		8GK9122-4KK01	1 set	3.200
	600 × 800 × 250		8GK9122-5KK01	1 set	4.000
	600 × 1000 × 250		8GK9122-6KK01	1 set	4.900
	600 × 1200 × 250		8GK9122-7KK01	1 set	5.800
	900 × 1000 × 250		8GK9122-6KK01	1 set	4.900
	900 × 1200 × 250		8GK9122-7KK01	1 set	5.800
 Vertical profile bar for wiring compartment	900 × 1000 × 250		8GK9125-7KK01	1 unit	1.600
	900 × 1200 × 250		8GK9127-8KK01	1 unit	1.900
 Cover for wiring compartment, width 250/300 mm	900 × 1000 × 250		8GK9606-7KK10	1 unit	3.000
	900 × 1200 × 250	2 ×	8GK9606-4KK10	1 unit	1.800
 Base color: blue green, height 100 mm	600 × 600 × 250 ...		8GK9906-0KK23	1 unit	5.500
	600 × 1200 × 250				
	900 × 1000 × 250 ...		8GK9906-0KK33	1 unit	6.000
 Terminal box for cable entry and cable duct	600 × 600 × 250 ...		8GK9920-0KK41	1 unit	4.500
	600 × 1200 × 250				
	900 × 1000 × 250 ...		8GK9920-0KK42	1 unit	5.500
	900 × 1200 × 250				







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										
 <p>Width 300, 600, 900 mm</p>	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				
	 <p>8GK9515-8KK10</p>	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			
		 <p>8GK9515-8KK40</p>	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		
			Footnote ¹⁾ For distribution boards with vertical profile bar for wiring compartment							
			 <p>8GK9505-8KK11</p>	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	
		 <p>8GK9507-8KK20</p>		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	
					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	11.500 6.800 13.000 7.900 14.500 9.000
					Footnote ¹⁾ For distribution boards with vertical profile bar for wiring compartment					

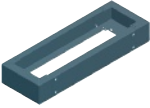
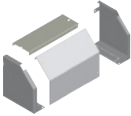
ALPHA 630 UNIVERSAL Distribution Boards

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

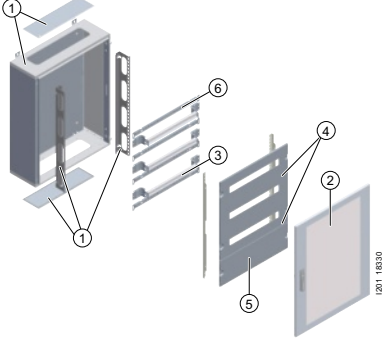
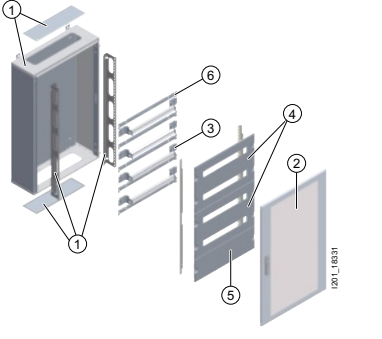
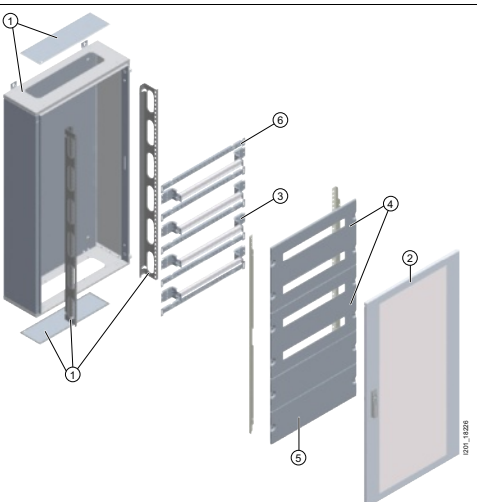
ALPHA 630 UNIVERSAL Distribution Boards

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 ...		8GK9906-0KK13	1 unit	4.000
		300 × 2000 × 250		8GK9906-0KK23	1 unit	5.500
		600 × 1600 × 250 ...		8GK9906-0KK33	1 unit	6.000
		600 × 2000 × 250				
	900 × 1600 × 250 ...					
	900 × 2000 × 250					
	Footnote					
	¹⁾ Additional base (can be mounted on existing base)					
 8GK9920-0KK40	Terminal box for cable entry and cable duct	300 × 1600 × 250 ...		8GK9920-0KK40	1 unit	3.500
		300 × 2000 × 250				
		600 × 1600 × 250 ...		8GK9920-0KK41	1 unit	4.500
		600 × 2000 × 250				
		900 × 1600 × 250 ...		8GK9920-0KK42	1 unit	5.500
	900 × 2000 × 250					

3

Selection and ordering data

	Versions	Dimensions width x height x depth mm	DT	Order No.	PS*/ P. unit	Weight kg
	Wall-mounted distribution board, complete cabinet Comprising: <ol style="list-style-type: none"> 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 	600 x 800 x 250		8GK9988-0KL00	1 unit	36.000
	Wall-mounted distribution board, complete cabinet Comprising: <ol style="list-style-type: none"> 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 	600 x 1000 x 250		8GK9988-0KL01	1 unit	45.000
	Wall-mounted distribution board, complete cabinet Comprising: <ol style="list-style-type: none"> 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 	600 x 1200 x 250		8GK9988-0KL02	1 unit	50.000

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</p> <p>Comprising:</p> <ul style="list-style-type: none"> ① 1 × unequipped distribution board, 8GK2325-6KK23 ② 1 × side door, 8GK9122-8KK04 ③ 1 × transparent door, Giugiaro design, 8GK9505-7KK23 ④ 7 × standard mounting rails for mounting modular devices, 8GF9670 ⑤ 3 × covers for modular installation devices 1 × 24 MW, height 200 mm, 8GK9608-1KK20 ⑥ 2 × covers for modular installation devices 2 × 24 MW, height 400 mm, 8GK9608-2KK20 ⑦ 4 × holders for cable duct, 8GF9652 ⑧ 2 × closed covers height 200 mm, 8GK9623-1KK20 	600 × 1800 × 250		8GK2348-7KL00	1 unit	74.000
	<p>Floor-mounted distribution board, complete cabinet with VL assembly kit</p> <p>Comprising:</p> <ul style="list-style-type: none"> ① 1 × unequipped distribution board, 8GK2325-6KK23 ② 1 × side door, 8GK9122-8KK04 ③ 1 × transparent door, 8GF9507-8KK21 ④ 6 × standard mounting rails for mounting modular devices, 8GK9670 ⑤ 2 × covers for modular installation devices 1 × 24 MW, height 200 mm, 8GK9608-1KK20 ⑥ 2 × covers for modular installation devices 2 × 24 MW, height 400 mm, 8GK9608-2KK20 ⑦ 3 × holders for cable duct, 8GF9652 ⑧ 2 × closed covers height 200 mm, 8GK9623-2KK20 ⑨ 1 × horizontal VL assembly kit, 160X/160/250, height 200 mm, 8GK6710-2KK23 	600 × 1800 × 250		8GK2348-7KL01	1 unit	76.000

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

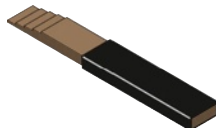
ALPHA 630 UNIVERSAL Distribution Boards

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](#).

Selection and ordering data

	Cross-section mm	Mounting	Set of screws/ bolts	Clamp- ing force Nm	DT	L = 2000 mm			L = 1300 mm		
						Order No.	PS*/ P. unit	Weight kg	Order No.	PS*/ P. unit	Weight kg
Copper busbars and accessories											
	15 × 5	Threaded hole				8GF5751	1 unit	1.200	8GF5771	1 unit	0.900
	20 × 5	Threaded hole	8GF5891 (M6)	8		8GF5737	1 unit	1.500	8GF5772	1 unit	1.160
	30 × 5	Threaded hole				8GF5742	1 unit	2.000	8GF5773	1 unit	1.740
	30 × 10	Drill hole	8GF5892 (M8)	20		8GF5752	1 unit	4.700	8GF5774	1 unit	3.500
Copper grounding bar											
	20 × 5, width 600 mm	Drill hole	--	--		8GK9920-0KK10	1 set	0.500	8GK9920-0KK10	1 set	0.500
	20 × 5, width 900 mm	Drill hole				8GK9920-0KK13	1 unit	0.800	8GK9920-0KK13	1 unit	0.800
8GK9920-0KK10											
	Load A	Cross-section mm	DT	Δt = 20°C			Δt = 40°C				
				Order No.	PS*/ P. unit	Weight kg	Order No.	PS*/ P. unit	Weight kg		
Copper terminals with flexible, PVC-insulated strips for molded case circuit breakers¹⁾, L = 2000 mm											
	160	13 × 3 × 0.5			--	8GF5680	1 unit	1.000	8GF5686	1 unit	0.500
	160	13 × 6 × 0.5			--	--	--	8GF5687	1 unit	1.000	
	250	16 × 4 × 0.8			--	--	--	8GF5688	1 unit	2.500	
	250	20 × 5 × 1			--	8GF5681	1 unit	2.000	--	--	
	400	24 × 4 × 1			--	8GF5682	1 unit	5.000	--	--	
	400	32 × 5 × 1			--	--	--	8GF5690	1 unit	5.000	
	630	40 × 5 × 1			--	--	--	--	--	--	
	630	40 × 8 × 1			--	8GF5683	1 unit	7.500	--	--	
8GF5680											

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

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

ALPHA AS 800 UNIVERSAL Distribution Boards

Introduction

Overview

4



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 boards 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
Overtoltage category		III

¹⁾ Further colors are available on request.

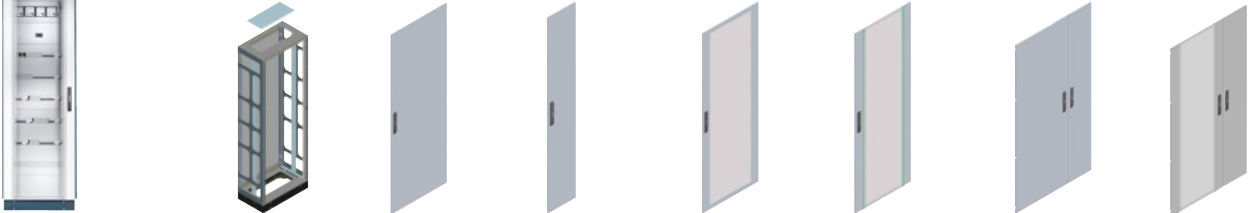
Overview

- 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)

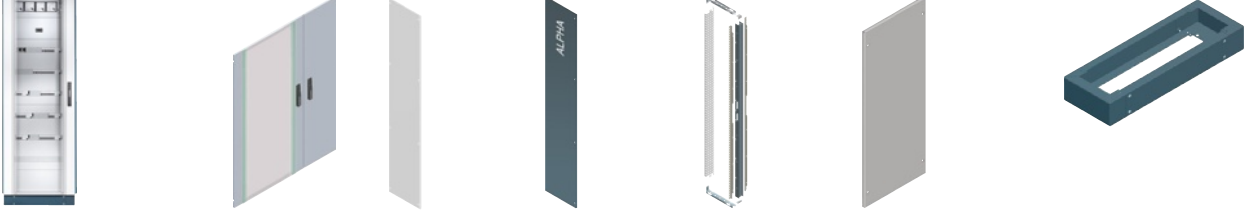
Design

Configuration options

Configuration of floor-mounted distribution boards, IP30 and IP55



Version Height x width x depth	Degree of protection	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 × 1800 × 400	30/55	8GK2420-6KK14	8GK9515-8KK11	--	8GK9505-8KK12	--	--	--
300 × 2000 × 400	30/55	8GK2420-7KK14	8GK9515-8KK12	--	8GK9505-8KK10	--	--	--
600 × 1800 × 400	30/55	8GK2420-6KK24	8GK9515-8KK21	--	8GK9505-8KK21	8GK9507-8KK21	--	--
600 × 2000 × 400	30/55	8GK2420-7KK24	8GK9515-8KK22	--	8GK9505-8KK22	8GK9507-8KK22	--	--
900 × 1800 × 400	30/55	8GK2420-6KK34	8GK9515-8KK31	8GK9515-8KK41	8GK9505-8KK31	8GK9507-8KK31	8GK9515-8KK21 + 8GK9515-8KK41	8GK9505-8KK20 + 8GK9515-8KK41
900 × 2000 × 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 protection	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 × 1800 × 400	30/55	--	8GK9200-8KK04	8GK9200-8KK07	8GK9200-8KK00	8GK9607-5KK10 + 8GK9607-7KK10	8GK9906-0KK15
300 × 2000 × 400	30/55	--	8GK9200-8KK05	8GK9200-8KK08	8GK9200-8KK01	2 × 8GK9606-7KK10	8GK9906-0KK15
600 × 1800 × 400	30/55	--	8GK9200-8KK04	8GK9200-8KK07	8GK9200-8KK00	--	8GK9906-0KK23
600 × 2000 × 400	30/55	--	8GK9200-8KK05	8GK9200-8KK08	8GK9200-8KK01	--	8GK9906-0KK23
900 × 1800 × 400	30/55	8GK9507-8KK21 + 8GK9515-8KK41	8GK9200-8KK04	8GK9200-8KK07	8GK9200-8KK00	8GK9606-5KK10 + 8GK9606-7KK10	8GK9906-0KK35
900 × 2000 × 400	30/55	8GK9507-8KK22 + 8GK9515-8KK42	8GK9200-8KK05	8GK9200-8KK08	8GK9200-8KK01	2 × 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







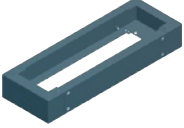
Unequipped distribution boards

Selection and ordering data

	Version	Dimensions of modules width × height × depth mm	DT	Order No.	PS*/ P. unit	Weight kg
Floor-mounted unequipped distribution board IP30 / IP55						
	Unequipped distribution board	300 × 1800 × 400		8GK2420-6KK14	1 unit	37.000
		300 × 2000 × 400		8GK2420-7KK14	1 unit	40.000
		600 × 1800 × 400		8GK2420-6KK24	1 unit	48.000
		600 × 2000 × 400		8GK2420-7KK24	1 unit	52.000
		900 × 1800 × 400		8GK2420-6KK34	1 unit	59.000
		900 × 2000 × 400		8GK2420-7KK34	1 unit	63.000
8GK2420-6KK14						
	Steel-sheet door	300 × 1800 × 400		8GK9515-8KK11	1 unit	8.500
		300 × 2000 × 400		8GK9515-8KK12	1 unit	9.500
		600 × 1800 × 400		8GK9515-8KK21	1 unit	13.000
		600 × 2000 × 400		8GK9515-8KK22	1 unit	14.500
		900 × 1800 × 400		8GK9515-8KK31	1 unit	17.500
		900 × 2000 × 400		8GK9515-8KK32	1 unit	19.500
8GK9515-8KK11						
	Steel-sheet door¹⁾, width 250 mm, for wiring compartment	900 × 1800 × 400		8GK9515-8KK41	1 unit	7.900
		900 × 2000 × 400		8GK9515-8KK42	1 unit	9.000
8GK9515-8KK41						
Footnote						
¹⁾ For distribution boards with vertical profile bar for wiring compartment						
	Transparent door	300 × 1800 × 400		8GK9505-8KK12	1 unit	9.000
		300 × 2000 × 400		8GK9505-8KK10	1 unit	9.500
		600 × 1800 × 400		8GK9505-8KK21	1 unit	13.000
		600 × 2000 × 400		8GK9505-8KK22	1 unit	14.500
		900 × 1800 × 400		8GK9505-8KK31	1 unit	17.500
		900 × 2000 × 400		8GK9505-8KK32	1 unit	19.500
8GK9505-8KK12						
	Transparent door Giugiaro design	600 × 1800 × 400		8GK9507-8KK21	1 unit	13.000
		600 × 2000 × 400		8GK9507-8KK22	1 unit	14.500
		900 × 1800 × 400		8GK9507-8KK31	1 unit	17.500
		900 × 2000 × 400		8GK9507-8KK32	1 unit	19.500
8GK9507-8KK21						
	Double door made of sheet steel, width 600 mm + 250 mm¹⁾	900 × 1800 × 400		8GK9515-8KK21	1 unit	13.000
				+ 8GK9515-8KK41	1 unit	7.900
		900 × 2000 × 400		8GK9515-8KK22	1 unit	14.500
				+ 8GK9515-8KK42	1 unit	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 × height × depth mm	DT	Order No.	PS*/ P. unit	Weight kg	
 8GK9505-8KK21 + 8GK9515-8KK41	Transparent double door, width 600 + 250 mm¹⁾		8GK9505-8KK21 +	1 unit	13.000	
			8GK9515-8KK41	1 unit	7.900	
		900 × 2000 × 400		8GK9505-8KK22 +	1 unit	14.500
				8GK9515-8KK42	1 unit	9.000
Footnote						
¹⁾ For distribution boards with vertical profile bar for wiring compartment						
 8GK9507-8KK21 + 8GK9515-8KK41	Transparent double door in Giugiaro design, width 600 + 250 mm¹⁾		8GK9507-8KK21 +	1 unit	13.000	
			8GK9515-8KK41	1 unit	7.900	
		900 × 2000 × 400		8GK9507-8KK22 +	1 unit	14.500
				8GK9515-8KK42	1 unit	9.000
Footnote						
¹⁾ For distribution boards with vertical profile bar for wiring compartment						
 8GK9200-8KK04	Side panels, RAL 7035 (pair)		8GK9200-8KK04	1 set	12.500	
		300 × 1800 × 400		8GK9200-8KK05	1 set	14.000
		300 × 2000 × 400		8GK9200-8KK04	1 set	12.500
		600 × 1800 × 400		8GK9200-8KK05	1 set	14.000
		600 × 2000 × 400		8GK9200-8KK04	1 set	12.500
		900 × 1800 × 400		8GK9200-8KK05	1 set	14.000
Note						
To implement side panels with ventilation, quote Order No. 8GK9120-0KK30 (4 units) in addition to the side panels.						
 8GK9200-8KK07	Side panels, color: blue green (pair)		8GK9200-8KK07	1 set	12.500	
		300 × 1800 × 400		8GK9200-8KK08	1 set	14.000
		300 × 2000 × 400		8GK9200-8KK07	1 set	12.500
		600 × 1800 × 400		8GK9200-8KK08	1 set	14.000
		600 × 2000 × 400		8GK9200-8KK07	1 set	12.500
		900 × 1800 × 400		8GK9200-8KK08	1 set	14.000
Vertical profile bar for wiring compartment/ busbars						
 8GK9200-8KK00		900 × 1000 × 400	8GK9200-8KK00	1 unit	6.700	
		300 × 2000 × 400	8GK9200-8KK01	1 unit	7.400	
		600 × 1800 × 400	8GK9200-8KK00	1 unit	6.700	
		600 × 2000 × 400	8GK9200-8KK01	1 unit	7.400	
		900 × 1800 × 400	8GK9200-8KK00	1 unit	6.700	
		900 × 2000 × 400	8GK9200-8KK01	1 unit	7.400	
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.						
 8GK9607-5KK10 + 8GK9607-7KK10	Cover for wiring compartment, width 250/300 mm		8GK9607-5KK10 +	1 unit	2.500	
			8GK9607-7KK10	1 unit	3.000	
		300 × 2000 × 400	2 ×	8GK9607-7KK10	1 unit	3.000
		900 × 1800 × 400		8GK9606-5KK10 +	1 unit	2.400
				8GK9606-7KK10	1 unit	3.000
		900 × 2000 × 400	2 ×	8GK9606-7KK10	1 unit	3.000
 8GK9906-0KK15 8GK9906-0KK25 8GK9906-0KK35	Base color: blue green, height 100 mm		8GK9906-0KK15	1 unit	6.200	
		300 × 1800 × 400		8GK9906-0KK15	1 unit	6.200
		300 × 2000 × 400		8GK9906-0KK25	1 unit	7.400
		600 × 1800 × 400		8GK9906-0KK25	1 unit	7.400
		600 × 2000 × 400		8GK9906-0KK35	1 unit	8.600
		900 × 1800 × 400		8GK9906-0KK35	1 unit	8.600



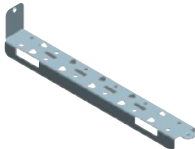
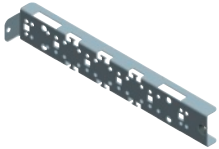

* You can order this quantity or a multiple thereof.

ALPHA AS 800 UNIVERSAL Distribution Boards

Unequipped distribution boards

Accessories

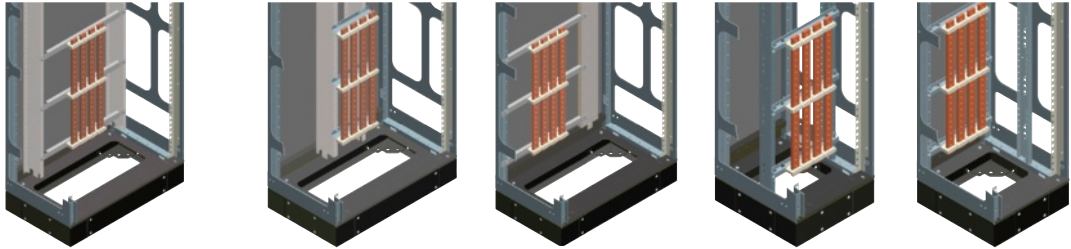
Supports and crossbars

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

Overview

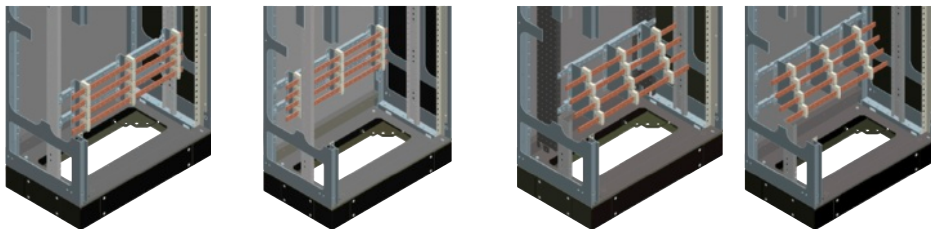
The 4-pole compact busbar systems are subdivided into current steps.

Vertical installation of rear busbars (single bars only)



Version	Vertical, rear, width 600/900 mm	Vertical, rear, for a clearance of 150 mm, width 600/900 mm	Vertical, rear, recessed, width 600/900 mm	Vertical, rear, in width 300 mm	Vertical, rear, recessed, width 300 mm
	Order No.	Order No.	Order No.	Order No.	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)

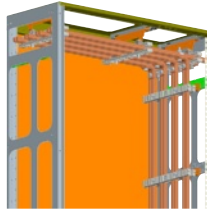


Version	Horizontal flat bars, at front	Horizontal front bar, flat bar, recessed	Horizontal front bar, at front, with steps	Horizontal front bar, recessed, with steps
	Order No.	Order No.	Order No.	Order No.
Busbar supports:	8GF5762/63	8GF5762/63	8GF5760/61	8GF5760/61
Supplements:				
• Support plate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

ALPHA AS 800 UNIVERSAL Distribution Boards

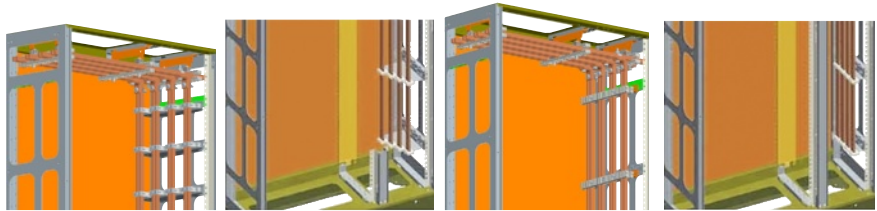
Busbar systems

Horizontal installation of top busbars (double bars only)



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

Vertical busbars, for sides



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

Technical specifications

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

Busbar size	A	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		160	250	400	630	630	800	630	800	630	800
Distance between busbar supports											
• at $I_{CC\ rms} = 5\text{ kA}$	mm	600	--	--	--	--	--	--	--	--	--
• at $I_{CC\ rms} = 10\text{ kA}$	mm	400	600	700	600	--	--	--	--	--	--
• at $I_{CC\ rms} = 15\text{ kA}$	mm	--	400	450	400	--	--	--	--	--	--
• at $I_{CC\ rms} = 20\text{ kA}$	mm	--	--	325	300	--	--	--	--	--	--
• at $I_{CC\ rms} = 25\text{ kA}$	mm	--	--	300	250	200	200	400	600	400	600
• at $I_{CC\ rms} = 35\text{ kA}$	mm	--	--	--	--	--	--	400	400	400	400

Configuration options

Version	Width mm	Busbar supports			Crossbars for installation of support Order No.
		Size 15 × 5 / 20 × 5 / 30 × 5 Order No.	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	Dimen- sions 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	Dimen- sions 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

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						
Length mm	Cross-section mm	Mounting				
 8GF5771	1300	15 × 5	Threaded hole	8GF5771	1 unit	0.900
		20 × 5	Threaded hole	8GF5772	1 unit	1.160
		30 × 5	Threaded hole	8GF5773	1 unit	1.740
		30 × 10	Drill hole	8GF5774	1 unit	3.500
2000	15 × 5	Threaded hole	8GF5751	1 unit	1.200	
	20 × 5	Threaded hole	8GF5737	1 unit	1.500	
	20 × 10	Undrilled	8PQ4000-0BA84	1 unit	3.584	
	30 × 5	Threaded hole	8GF5742	1 unit	2.000	
	30 × 10	Drill hole	8GF5752	1 unit	4.700	
	30 × 10	Undrilled	8PQ4000-0BA86	1 unit	5.376	
Set of screws/bolts for slotted bars						
Outer thread	Cross-section mm	Clamping force Nm				
M6	15 × 5	8	8GF5891	1 set	0.600	
	20 × 5	8				
	30 × 5	8				
M8	30 × 10	20	8GF5892	1 set	1.100	
Copper grounding bar						
Width mm	Cross-section mm	Mounting				
 8GK9920-0KK10	600	Drill hole	8GK9920-0KK10	1 set	0.500	
	900	Drill hole	8GK9920-0KK13	1 unit	0.800	
Copper terminals with flexible, PVC-insulated strips for molded case circuit breakers, length 2000 mm						
Load A	Cross-section mm	Δt °C				
160	13 × 6 × 0.5	20	8GF5680	1 unit	1.000	
	20 × 5 × 1	20				
	32 × 5 × 1	20				
	40 × 8 × 1	20				
250	13 × 3 × 0.5	40	8GF5686	1 unit	0.500	
	16 × 4 × 0.8	40				
	24 × 4 × 1	40				
	40 × 5 × 1	40				
400	13 × 6 × 0.5	20	8GF5681	1 unit	2.000	
	20 × 5 × 1	20				
	32 × 5 × 1	20				
	40 × 8 × 1	20				
630	13 × 3 × 0.5	40	8GF5682	1 unit	5.000	
	16 × 4 × 0.8	40				
	24 × 4 × 1	40				
	40 × 5 × 1	40				
160	13 × 6 × 0.5	20	8GF5683	1 unit	7.500	
	20 × 5 × 1	20				
	32 × 5 × 1	20				
	40 × 8 × 1	20				
250	13 × 3 × 0.5	40	8GF5686	1 unit	0.500	
	16 × 4 × 0.8	40				
	24 × 4 × 1	40				
	40 × 5 × 1	40				
400	13 × 6 × 0.5	20	8GF5687	1 unit	1.000	
	20 × 5 × 1	20				
	32 × 5 × 1	20				
	40 × 8 × 1	20				
630	13 × 3 × 0.5	40	8GF5688	1 unit	2.500	
	16 × 4 × 0.8	40				
	24 × 4 × 1	40				
	40 × 5 × 1	40				
160	13 × 6 × 0.5	20	8GF5680	1 unit	1.000	
	20 × 5 × 1	20				
	32 × 5 × 1	20				
	40 × 8 × 1	20				
250	13 × 3 × 0.5	40	8GF5686	1 unit	0.500	
	16 × 4 × 0.8	40				
	24 × 4 × 1	40				
	40 × 5 × 1	40				
400	13 × 6 × 0.5	20	8GF5681	1 unit	2.000	
	20 × 5 × 1	20				
	32 × 5 × 1	20				
	40 × 8 × 1	20				
630	13 × 3 × 0.5	40	8GF5682	1 unit	5.000	
	16 × 4 × 0.8	40				
	24 × 4 × 1	40				
	40 × 5 × 1	40				
160	13 × 6 × 0.5	20	8GF5683	1 unit	7.500	
	20 × 5 × 1	20				
	32 × 5 × 1	20				
	40 × 8 × 1	20				
250	13 × 3 × 0.5	40	8GF5686	1 unit	0.500	
	16 × 4 × 0.8	40				
	24 × 4 × 1	40				
	40 × 5 × 1	40				
400	13 × 6 × 0.5	20	8GF5687	1 unit	1.000	
	20 × 5 × 1	20				
	32 × 5 × 1	20				
	40 × 8 × 1	20				
630	13 × 3 × 0.5	40	8GF5688	1 unit	2.500	
	16 × 4 × 0.8	40				
	24 × 4 × 1	40				
	40 × 5 × 1	40				
160	13 × 6 × 0.5	20	8GF5680	1 unit	1.000	
	20 × 5 × 1	20				
	32 × 5 × 1	20				
	40 × 8 × 1	20				
250	13 × 3 × 0.5	40	8GF5686	1 unit	0.500	
	16 × 4 × 0.8	40				
	24 × 4 × 1	40				
	40 × 5 × 1	40				
400	13 × 6 × 0.5	20	8GF5681	1 unit	2.000	
	20 × 5 × 1	20				
	32 × 5 × 1	20				
	40 × 8 × 1	20				
630	13 × 3 × 0.5	40	8GF5682	1 unit	5.000	
	16 × 4 × 0.8	40				
	24 × 4 × 1	40				
	40 × 5 × 1	40				
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
	Connecting kit for upper horizontal busbars	800	8GK9790-0KK01	1 unit	3.000
 8GK9790-0KK01					
 8GK9750-0KK00	Holder for grounding bar		8GK9750-0KK00	2 units	0.220
	Transparent cover For horizontal busbars, at front				
 8GK9920-0KK37	Width mm				
	600		8GK9920-0KK37	1 unit	1.000
	900		8GK9920-0KK38	1 unit	1.500

4

Assembly Kits / Accessories for ALPHA UNIVERSAL Distribution Boards

5



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/technical-support

→ Product list:
 Technical specifications

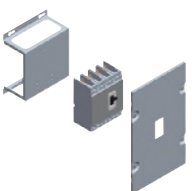
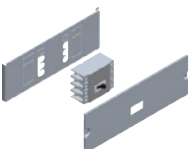
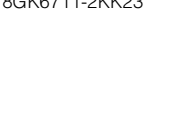
→ Entry list:
 Updates / Download / FAQs /
 Manuals / Operating instructions /
 Characteristic curves / Certificates

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						
	Height	Max. No. of switching devices	DT	PS*/P. unit	Weight	Height	Max. No. of switching devices	DT	PS*/P. unit	Weight
	mm		Order No.		kg	mm		Order No.		kg
VL molded case circuit breakers										
 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
				--			200	1	8GK6711-2KK23	1 unit
 8GK6710-4KK23	600	1 ... 3	8GK6710-6KK23	1 unit	7.500	200	1	8GK6712-2KK23	1 unit	2.500
 8GK6711-2KK23	300	1	8GK6710-3KK23	1 unit	3.750			--		
<ul style="list-style-type: none"> VL160-250 with residual current operated circuit breaker mounted underneath 	600	1 ... 3	8GK6711-6KK23	1 unit	7.500	200	1	8GK6713-2KK23	1 unit	2.500
<ul style="list-style-type: none"> VL400, max. 400 A 	600	1	8GK6712-6KK23	1 unit	7.500	200	1	8GK6714-2KK23	1 unit	2.700
<ul style="list-style-type: none"> VL400 with residual current operated circuit breaker mounted underneath 	600	1	8GK6713-6KK23	1 unit	7.500	200	1	8GK6715-2KK23	1 unit	2.700
<ul style="list-style-type: none"> VL630, max. 630 A 	600	1	8GK6714-6KK23	1 unit	7.500	400	1	8GK6715-4KK23	1 unit	5.000
<ul style="list-style-type: none"> VL800, max. 800 A (for ALPHA AS only) 	600	1	8GK6700-6KK24	1 unit	7.500			--		

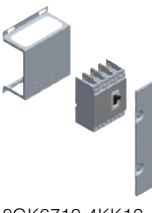
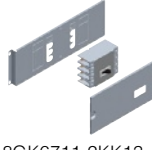
Assembly Kits / Accessories for ALPHA UNIVERSAL Distrib. Boards

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

Description	Vertical installation			Horizontal installation							
	Height	Max. No. of switching devices	DT	PS*/P. unit	Weight	Height	Max. No. of switching devices	DT	PS*/P. unit	Weight	
	mm				kg	mm				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			--		

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	Max. No. of switching devices	DT	PS*/P. unit	Weight	Height	Max. No. of switching devices	DT	PS*/P. unit	Weight	
	mm		Order No.		kg	mm		Order No.		kg	
3VL molded case circuit breakers in width											
 8GK6710-4KK13	3/4-pole, width 250 mm¹⁾										
	• VL160X - VL160 - VL250, max. 250 A	400	1	8GK6710-4KK13	1 unit	2.500	--	--	--		
	• VL400, max. 400 A	600	1	8GK6710-6KK13	1 unit	3.500	--	--	--		
	• VL630, max. 630 A	600	1	8GK6711-6KK13	1 unit	3.500	--	--	--		
	• VL160X with residual current operated circuit breaker mounted underneath	600	1	8GK6713-4KK13	1 unit	3.500	--	--	--		
	• VL160-250 with residual current operated circuit breaker mounted underneath	600	1	8GK6712-4KK13	1 unit	3.500	--	--	--		
• VL400 with residual current operated circuit breaker mounted underneath	600	1	8GK6712-6KK13	1 unit	3.500	--	--	--			
 8GK6711-2KK13	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:

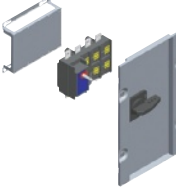
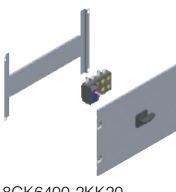

8GK9126-8KK03 (height 1600 mm),
8GK9126-8KK04 (height 1800 mm),
8GK9126-8KK05 (height 2000 mm).

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

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

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

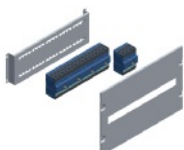
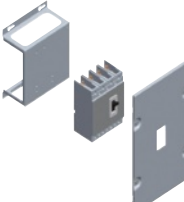

⁵⁾ Plate designed to accommodate 3 disconnectors.

Assembly 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									
 8GK6750-4KK23	3VT1¹⁾	600	200	Horizontal	1		8GK6750-2KK23	1 unit	2.500
		600	400	Vertical	5		8GK6750-4KK23	1 unit	5.000
		900	200	Horizontal	1		8GK6750-2KK33	1 unit	4.000
		900	400	Vertical	7		8GK6750-4KK33	1 unit	9.000
		300 ²⁾	400	Vertical	2		8GK6751-4KK13	1 unit	2.500
		250 ³⁾	400	Vertical	1		8GK6750-4KK13	1 unit	2.500
 8GK6751-4KK13	3VT2	600	200	Horizontal	1		8GK6754-2KK23	1 unit	2.500
		600	600	Vertical	2		8GK6752-6KK23	1 unit	7.500
		900	200	Horizontal	1		8GK6756-2KK33	1 unit	4.000
		900	600	Vertical	3		8GK6752-6KK33	1 unit	9.200
		300 ²⁾	600	Vertical	1		8GK6753-6KK13	1 unit	4.000
		250 ³⁾	600	Vertical	1		8GK6750-6KK13	1 unit	3.000
 8GK6753-6KK13	3VT3	600	400	Horizontal	1		8GK6755-4KK23	1 unit	5.000
		600	600	Vertical	1		8GK6754-6KK23	1 unit	7.500
		900	400	Horizontal	1		8GK6755-4KK33	1 unit	9.000
		900	600	Vertical	1		8GK6754-6KK33	1 unit	9.200
		300 ²⁾	600	Vertical	1		8GK6754-6KK13	1 unit	4.000
		250 ³⁾	600	Vertical	1		8GK6751-6KK13	1 unit	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.

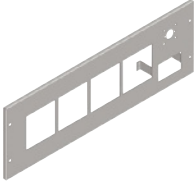
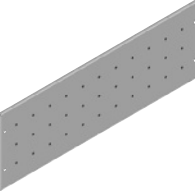
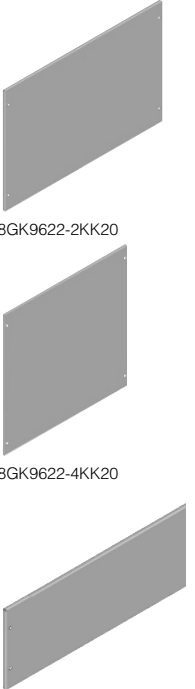
Overview

- 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.

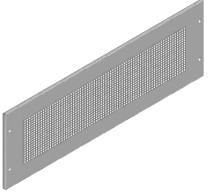
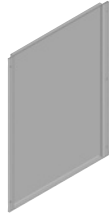




Selection and ordering data

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

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

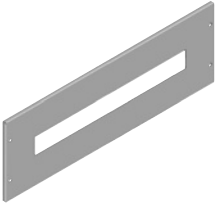
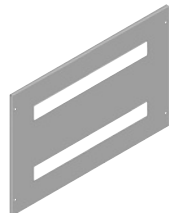
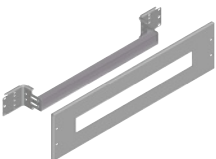


Covers and holders

Version	Fixed width ¹⁾ mm	Height mm	DT	Vertical installation	PS*/ P. unit	Weight kg	
				Order No.			
 8GK9632-1KK20	600 900	200 200		8GK9632-1KK20	1 unit	1.200	
				8GK9633-1KK20	1 unit	2.000	
 8GK9636-7KK20	600 900	800 800		8GK9635-5KK20	1 unit	8.500	
				8GK9635-5KK30	1 unit	9.300	
	600 900	1000 1000			8GK9636-7KK20	1 unit	10.700
					8GK9636-7KK30	1 unit	12.900
 8GF9652	600 900	-- --		8GF9652	1 set	1.300	
				8GF9653	1 set	1.800	
 8GK9920-0KK35	600 900	-- --		8GK9920-0KK35	1 set	0.800	
				8GK9920-0KK36	1 set	1.300	
 8GF9655	--	1000		8GF9655	1 set	1.800	
	--	1200		8GF9656	1 set	2.200	
	--	1600		8GF9650	1 set	2.800	
	--	1800		8GF9658	1 set	3.200	
	--	2000		8GF9654	1 set	3.500	
 8GK9126-8KK03	--	1600		8GK9126-8KK03	1 set	5.600	
	--	1800		8GK9126-8KK04	1 set	6.300	
	--	2000		8GK9126-8KK05	1 set	7.200	

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

Assembly kit for modular installation devices

Selection and ordering data




Version	External dimensions		Tiers/MW	DT	Order No.	PS*/ P. unit	Weight kg
	Height mm	Width ¹⁾ mm					
 8GK9608-1KK20	Front cover with cutout		1/24		8GK9608-1KK22	4 units	1.400
			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
 8GK9608-2KK20	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
 8GK6302-1KK23	Assembly kit with TH 35 standard mounting rail + cover		1/24		8GK6302-1KK23	1 unit	1.600
			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
 8GF9670	TH 35 standard mounting rail for mounting modular devices at various depths		1		8GF9670	1 unit	0.800
		900	1		8GF9671	1 unit	1.000
 8GF9670-1	Depth adapter 9 mm for linking 5SY and 5SJ on TH 35 standard mounting rails, L 360 mm - 20 MW²⁾		1/20		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.

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	600 900		8GF7155 8GF7158	1 unit 1 unit	2.000 3.000	
		400	600 900		8GF7156 8GF7160	1 unit 1 unit	3.500 6.000	
		600	600 900		8GF7157 8GF7161	1 unit 1 unit	5.500 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	600 900		8GF9676 8GF9680	1 unit 1 unit	2.200 3.300
			400	600 900		8GF9677 8GF9681	1 unit 1 unit	3.800 5.900
	600		600 900		8GF9678 8GF9682	1 unit 1 unit	5.600 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	600 900		8GK9535-8KK25 8GK9535-8KK35	1 unit 1 unit	20.000 30.000			
 8GK9525-5KK03	Partitions Horizontal partitions ¹⁾	--	250		8GK9525-0KK03	1 unit	0.550	
		--	300		8GK9525-0KK13	1 unit	0.550	
		--	600		8GK9525-0KK23	1 unit	1.100	
		--	900		8GK9525-0KK33	1 unit	1.500	
		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								
Vertical subdivisions between the switchgear compartment and busbar compartment ²⁾	1600	600		8GK9526-0KK00	1 unit	4.500		
	1800	600		8GK9526-0KK01	1 unit	5.000		
	2000	600		8GK9526-0KK02	1 unit	5.500		
Horizontal subdivisions between devices ²⁾	--	300		8GK9526-0KK06	1 unit	1.800		
	--	600		8GK9526-0KK07	1 unit	3.300		
	--	900		8GK9526-0KK08	1 unit	4.800		
Horizontal subdivisions between upper busbar compartment and devices ²⁾	--	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.

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

		5ST2 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		▶	0.772
	24 MW	1			1.400
	36 MW	1			2.041
Connecting cables with plug					
Length	Conductor cross-section mm ²	Color of insulation	Number Unit(s)		
	120 mm	6	10	▶	0.011
		10			0.012
		Black			0.013
		Blue			0.017
220 mm	6	10	▶	0.019	
	10			0.019	
	Black			0.028	
	Blue			0.027	
Crimp plug					
For connection to cables, 4/6 mm²					
Number Unit(s)					
20			▶	20 units	0.006
Mounting brackets					
For mounting on the rear of a standard mounting rail (pair)			▶	2 units	0.032

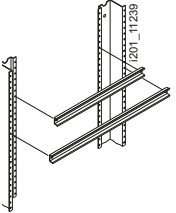


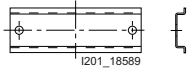
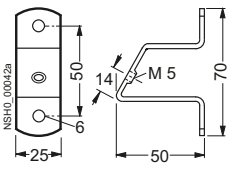



Note:

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.

5 Holders for terminal strips and locking systems

Selection and ordering data






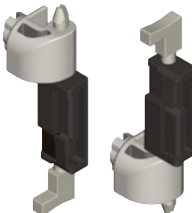


Version	DT	Order No.	PS*/ P. unit	Weight kg	
Holders for terminal strips					
					
8GF9672					
Holders for terminal strips					
Version	Width mm	Height mm			
Holder for horizontal terminal strip, short, for rear mounting (ALPHA AS: for installation on rear universal supports)	600 900	-- --	8GF9672 8GF9674	1 unit 1 unit 0.400 0.600	
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	
Version	Width mm	DT	Order No.	PS*/ P. unit	Weight kg
					
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	600/900		8GK9560-0KK04	1 unit	0.300
Espagnolette lock as standard, made of plastic, black, for wall-mounted distribution boards, IP43 (replacement part)					
					
8GK9560-0KK05					
Additional assembly kit for espagnolette lock, standard, IP55	600/900		8GK9560-0KK05	1 set	0.050




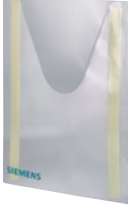

Holders for terminal strips and locking systems

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

Accessories

Selection and ordering data

	Version	DT	Order No.	PS*/ P. unit	Weight kg
 8GK9126-3KK00	Assembly kit for mounting flat pack cabinets for self-assembly, IP43				
	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	
 8GK9127-0KK01	Z-shaped crossbar for lifting the flat pack for self-assembly				
	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	
 8GK9920-0KK43	Z-shaped crossbar for mounting and vertical linking of wall-mounted distribution boards				
	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	
 8GK9120-0KK10	Cover flange plate for flat pack floor-mounted distribution boards (optional)				
	Height mm				
	300		8GK9120-0KK10	1 unit	1.000
600		8GK9120-0KK20	1 unit	2.000	
 8GK9120-0KK30	Ventilation grilles - side panels (4 units)				
			8GK9120-0KK30	4 units	0.500
 8GK9920-0KK24	Replacement hinges for doors for wall/floor-mounted distribution boards (2 units)				
			8GK9920-0KK24	1 set	0.200
 8GK9120-0KK11	Hinges for front covers (10 units)				
			8GK9120-0KK11	10 units	0.040
 8GK9 562-0KK00	New quick-lock screws for ALPHA cabinets				
			8GK9562-0KK00	20 units	0.010

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

Notes

5

ALPHA 8HP Molded-Plastic Distribution Systems

6



6/2

Introduction

Distribution systems

- 6/8 Empty enclosures
- 6/11 Modular installation devices
- 6/14 DIAZED/NEOZED fuse systems
- 6/17 3NP1 fuse switch disconnectors NEW
- 6/19 LV HRC fuse bases
- 6/21 Meter enclosures
- 6/23 3KA, 3KE switch disconnectors
- 6/25 3KL switch disconnectors with fuses
- 6/26 Changeover switches and parallel switches
- 6/28 3VL molded case circuit breakers

Busbar assembly kits

- 6/30 Busbar supports
- 6/17 3NP1 fuse switch disconnectors NEW
- 6/34 Terminals

Accessories

- 6/36 Accessories for enclosures
- 6/39 Terminals for mounting plate assembly
- 6/41 Wall mounting
- 6/42 Tools and aids
- 6/43 Support rack

Dimensional drawings

- 6/48 Single enclosures, knockouts
- 6/50 Enclosures with switching devices
- 6/51 Busbar systems

More technical product information:

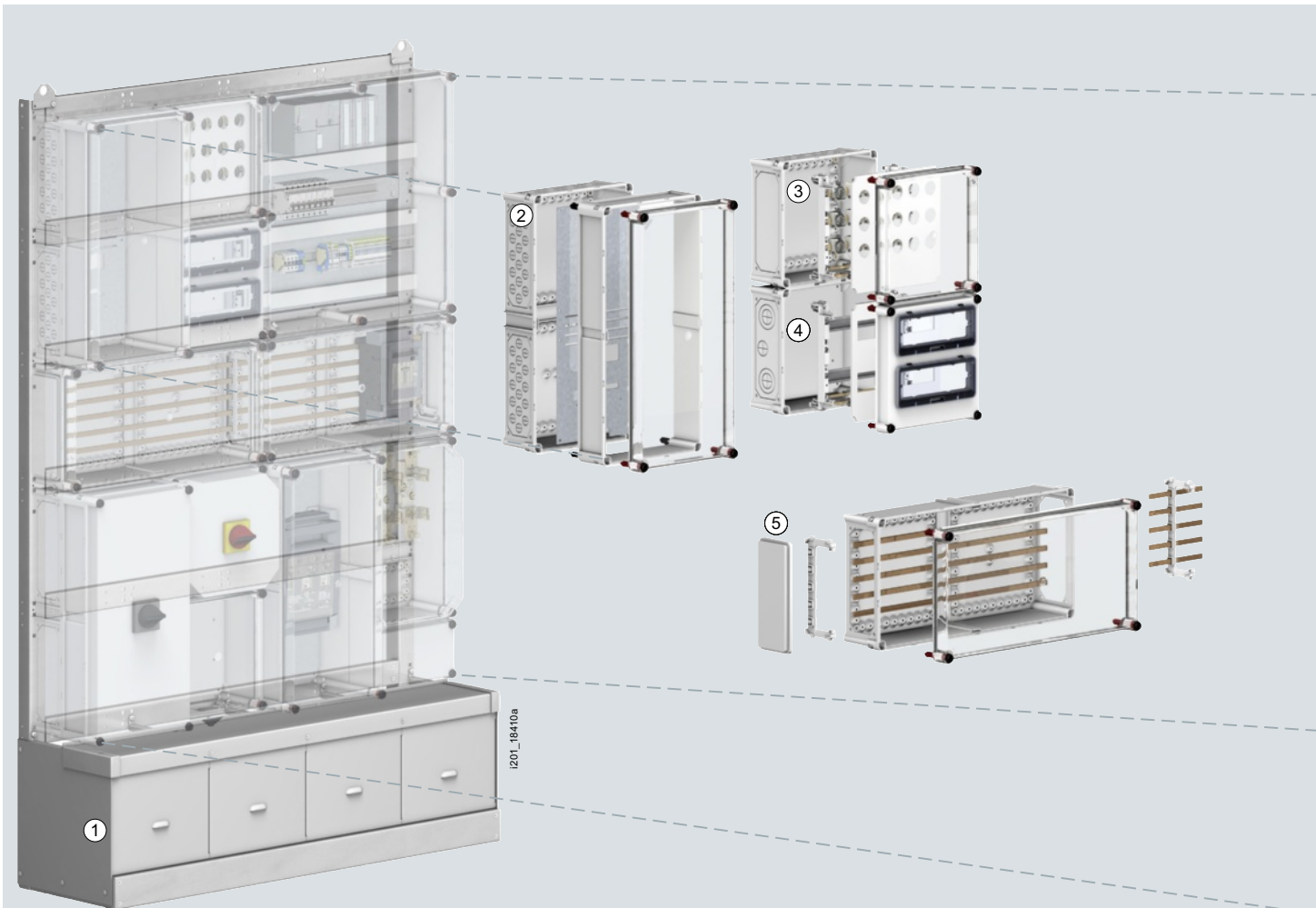
Service&Support portal:
www.siemens.com/lowvoltage/technical-support

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

ALPHA 8HP Molded-Plastic Distribution Systems

Introduction

Overview



- | | |
|---------------------------------------|------------------------------------|
| ① Support rack with cable space cover | ⑦ 3VL molded case circuit breakers |
| ② Meter enclosures | ⑧ 3NP1 fuse switch disconnectors |
| ③ DIAZED/NEOZED fuse systems | ⑨ 3KA, 3KE switch disconnectors |
| ④ Modular installation devices | ⑩ Flanges for cable entry |
| ⑤ 8US busbar system | ⑪ 3NP1 fuse switch disconnectors |
| ⑥ Enclosure with mounting plate | ⑫ LV HRC fuse bases |

Components of the ALPHA 8HP molded-plastic distribution system

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

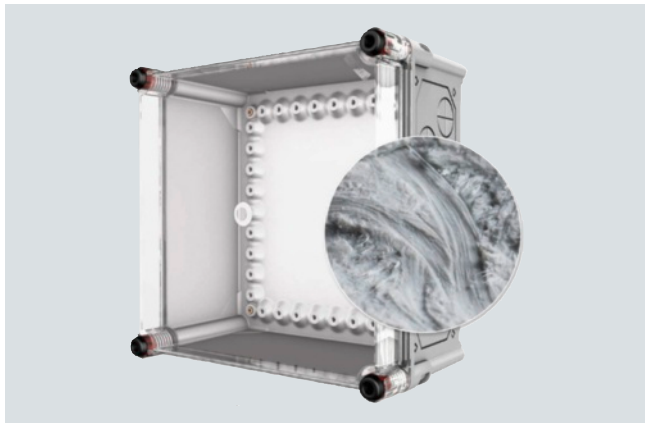


ALPHA 8HP Molded-Plastic Distribution Systems

Introduction

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⁾



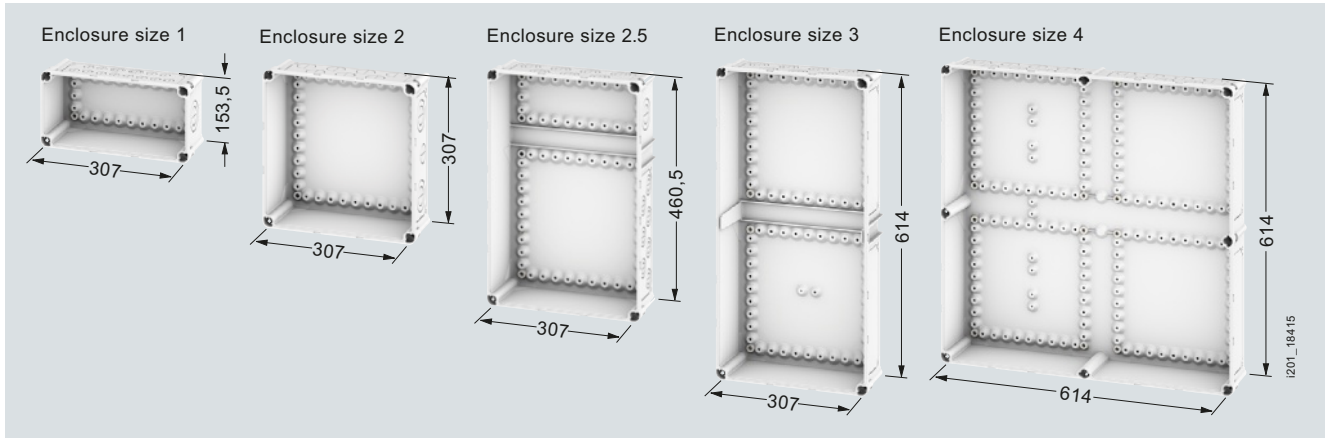
USA

¹⁾ Empty enclosure without assembly kits

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.



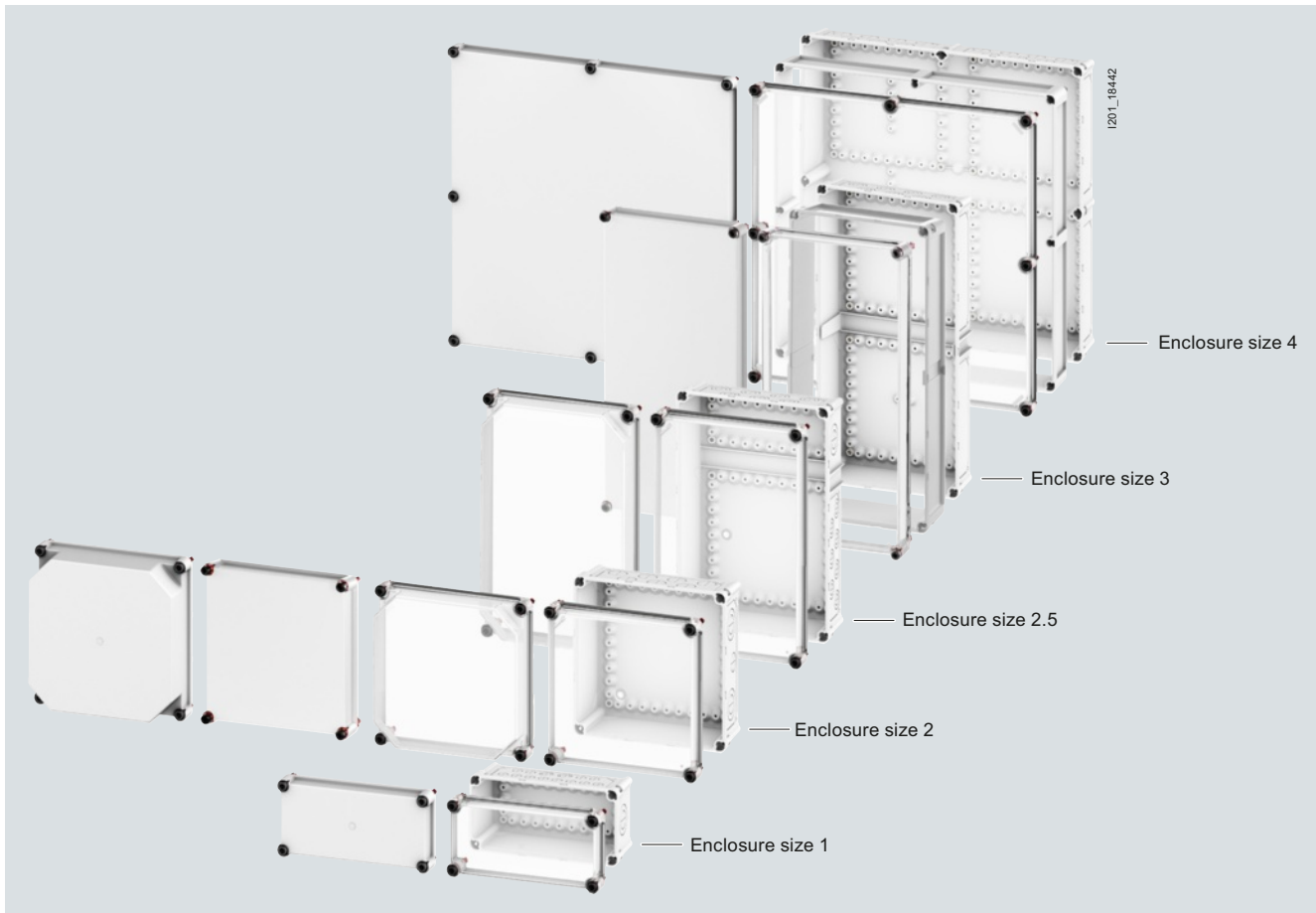
The covers are available in nontransparent or transparent versions and have quick-acting locks for tool actuation. These can be replaced with locks for manual actuation.

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 × 5	20 × 8	2 × 20 × 8	2 × 30 × 10
- N and PE bar	mm	12 × 5	20 × 8	20 × 8	30 × 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 Cover, nontransparent End cover plates	Transparent cover	Cable entry plate, cover lock	
Material	--	Glass-fiber reinforced polyester	Polycarbonate/Macrolon	PBTP-GV	
Electrical characteristics					
• Surface resistance in Ω	DIN 53482	$>10^{12}$	$>10^{15}$	$>10^{13}$	
• Tracking resistance	DIN 53480	Level KA 3c	Level KA 1	Level KB 225	
• Specific insulation resistance in Ω/cm	DIN 53482	$>10^{14}$	$>10^{16}$	$>10^{16}$	
Physical characteristics					
• Density in g/cm^3	DIN 53479/B	1.7	1.2	1.37	
• Water absorption in %	DIN 53495/C	0.20	0.15	0.45	
Temperature resistance					
• Flammability	DIN VDE 0304/3	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	

Certification

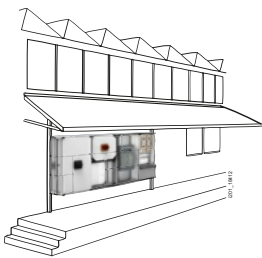
Standards	Description
DIN VDE 0660-500 (EN 60439-1)	Low-voltage switchgear and controlgear assemblies; Part 1: Type-tested and partially type-tested assemblies (TTA)
DIN VDE 0110-1 (EN 60664-1)	Insulation coordination for equipment within low-voltage systems; Part 1: Principles, requirements and tests. 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 Versuchsgrube Tremonia, Dortmund, Germany. • Shock tests for equipment used in protective rooms are performed by the Bundesamt für Zivilschutz, Bad Godesberg, Germany, regulation category RK 1.0/10 to safety level "A", certificate of use 036/95. • Earthquake tests are performed by the IAB, Ottobrunn, Germany.
GOST	For export to Russia  АЯ46
UL	Empty enclosures are UL-certified for export to the USA 

Installation conditions

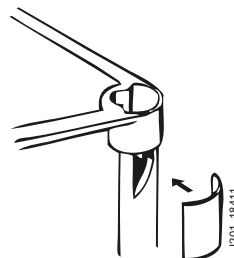
If the operating and ambient conditions differ from the standard conditions according to EN 60439-1, Item 6.1, appropriate measures must be taken to protect and maintain the operating capability of the switchgear assembly for "Special operating and ambient conditions" according to Item 6.2 (e.g. mechanical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



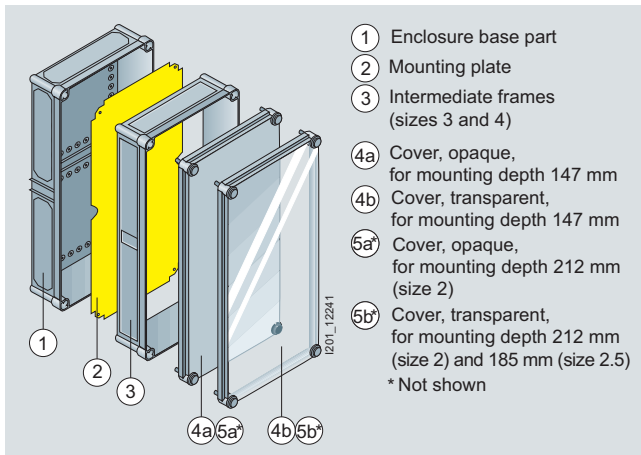
Corner covering

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.

Enclosure size	Mounting depth	Cover version	Empty enclosure incl. mounting plate	Individual components					
				Enclosure base part		Cover/+ intermediate frame		Mounting plate	
				Type	Image	Type	Image	Type	Image
1	147 mm	Nontransparent	8HP2001	①	8HP1101	④a	8HP1201	②	8HP6301
		Transparent	8HP2021	①	8HP1101	④b	8HP1221	②	8HP6301
2	147 mm	Nontransparent	8HP2002	①	8HP1102	④a	8HP1202	②	8HP6302
		Transparent	8HP2022	①	8HP1102	④b	8HP1222	②	8HP6302
	212 mm	Nontransparent	8HP2012	①	8HP1102	⑤a	8HP1212	②	8HP6302
		Transparent	8HP2032	①	8HP1102	⑤b	8HP1232	②	8HP6302
2.5	147 mm	Transparent	8HP2027	①	8HP1107	④b	8HP1227	②	8HP6307
	185 mm	Transparent	8HP2047	①	8HP1107	⑤b	8HP1247	②	8HP6307
3	147 mm	Nontransparent	8HP2003	①	8HP1103	④a	8HP1203	②	8HP6303
		Transparent	8HP2023	①	8HP1103	④b	8HP1223	②	8HP6303
	239.5 mm ¹⁾	Nontransparent	--	①	8HP1103	④a ③	8HP1203+ 8HP1283	②	8HP6303
		Transparent	--	①	8HP1103	④a ③	8HP1223+ 8HP1283	②	8HP6303
4	147 mm	Nontransparent	8HP2004	①	8HP1104	④a	8HP1204	②	8HP6304
		Transparent	8HP2024	①	8HP1104	④b	8HP1224	②	8HP6304
	239.5 mm ¹⁾	Nontransparent	--	①	8HP1104	④a ③	8HP1204+ 8HP1284	②	8HP6304
		Transparent	--	①	8HP1104	④a ③	8HP224+ 8HP1284	②	8HP6304



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										
	• Transparent cover	Enclosure size	Length mm	Width mm	Depth mm					
		1	307	153.5	167	8HP2021	1	1 unit	046	
		2	307	307.0	167	8HP2022	1	1 unit	046	
		2 deep	307	307.0	232	8HP2032	1	1 unit	046	
		2.5	307	460.5	167	8HP2027	1	1 unit	046	
		2.5 deep	307	460.6	205	8HP2047	1	1 unit	046	
		3	307	614.0	167	8HP2023	1	1 unit	046	
		4	614	614.0	167	8HP2024	1	1 unit	046	
8HP2022										
	• Cover, nontransparent	Enclosure size	Length mm	Width mm	Depth mm					
		1	307	153.5	167	8HP2001	1	1 unit	046	
		2	307	307.0	167	8HP2002	1	1 unit	046	
		2 deep	307	307.0	232	8HP2012	1	1 unit	046	
		3	307	614.0	167	8HP2003	1	1 unit	046	
		4	614	614.0	167	8HP2004	1	1 unit	046	
8HP2002										

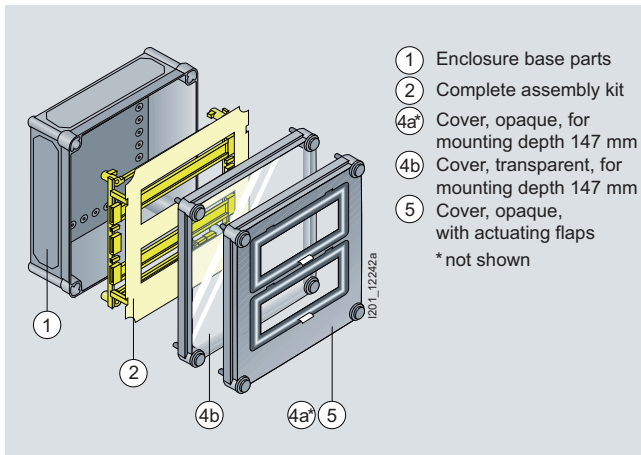
ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Empty enclosures

Version		DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Individual components						
	Versions	Length	Width	Depth		
		mm	mm	mm		
	Enclosure size 1					
	Enclosure base part	307	153.5	127	8HP1101	1 1 unit 046
	Transparent cover			40	8HP1221	1 1 unit 046
	Cover, nontransparent			40	8HP1201	1 1 unit 046
	Mounting plate (metal)			--	8HP6301	1 1 unit 046
	Enclosure size 2					
	Enclosure base part	307	307	127	8HP1102	1 1 unit 046
	Transparent cover			40	8HP1222	1 1 unit 046
	Transparent cover, deep			105	8HP1232	1 1 unit 046
	Cover, nontransparent			40	8HP1202	1 1 unit 046
	Cover, nontransparent, deep			105	8HP1212	1 1 unit 046
	Mounting plate (metal)			--	8HP6302	1 1 unit 046
	Enclosure size 2.5					
	Enclosure base part	307	460.5	127	8HP1107	1 1 unit 046
	Transparent cover			40	8HP1227	1 1 unit 046
	Transparent cover, deep			78	8HP1247	1 1 unit 046
	Mounting plate (metal)			--	8HP6307	1 1 unit 046
	Enclosure size 3					
	Enclosure base part	307	614	127	8HP1103	1 1 unit 046
	Intermediate frame			92.5	8HP1283	1 1 unit 046
	Transparent cover			40	8HP1223	1 1 unit 046
	Cover, nontransparent			40	8HP1203	1 1 unit 046
	Mounting plate (metal)			--	8HP6303	1 1 unit 046
	Enclosure size 4					
	Enclosure base part	614	614	127	8HP1104	1 1 unit 046
	Intermediate frame			92.5	8HP1284	1 1 unit 046
	Transparent cover			40	8HP1224	1 1 unit 046
	Cover, nontransparent			40	8HP1204	1 1 unit 046
	Mounting plate (metal)			--	8HP6304	1 1 unit 046

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	
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	
3	4 × 12	Nontransparent	8HP2544	① ② ④a	8HP1103 8HP5534 8HP1203	
		Transparent	8HP2534	① ② ④b	8HP1103 8HP5534 8HP1223	
		Nontransparent, with 4 actuating flaps	8HP2554	① ② ⑤	8HP1103 8HP5534 8HP1354	

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Modular installation devices

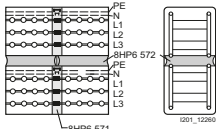


Selection and ordering data

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																																					
	<ul style="list-style-type: none"> Transparent cover 	<table border="1"> <thead> <tr> <th>Enclosure size</th> <th>Tiers × MW</th> </tr> </thead> <tbody> <tr> <td>1</td> <td>1 × 12 MW</td> </tr> <tr> <td>2</td> <td>2 × 12 MW</td> </tr> <tr> <td>2.5</td> <td>3 × 12 MW</td> </tr> <tr> <td>3</td> <td>4 × 12 MW</td> </tr> </tbody> </table>	Enclosure size	Tiers × MW	1	1 × 12 MW	2	2 × 12 MW	2.5	3 × 12 MW	3	4 × 12 MW	<table border="1"> <tbody> <tr> <td>8HP2501</td> <td>1</td> <td>1 unit</td> <td>046</td> </tr> <tr> <td>8HP2532</td> <td>1</td> <td>1 unit</td> <td>046</td> </tr> <tr> <td>8HP2523</td> <td>1</td> <td>1 unit</td> <td>046</td> </tr> <tr> <td>8HP2534</td> <td>1</td> <td>1 unit</td> <td>046</td> </tr> </tbody> </table>	8HP2501	1	1 unit	046	8HP2532	1	1 unit	046	8HP2523	1	1 unit	046	8HP2534	1	1 unit	046								
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8HP1353	1	1 unit	046																																		
8HP1354	1	1 unit	046																																		
8HP1351																																					
	<ul style="list-style-type: none"> Actuating flaps • Degree of protection IP65 • 12 modular widths • Lockable, with padlock, 6 mm 		8HP1440	1	1 unit	046																															
8HP1440																																					

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Modular installation devices

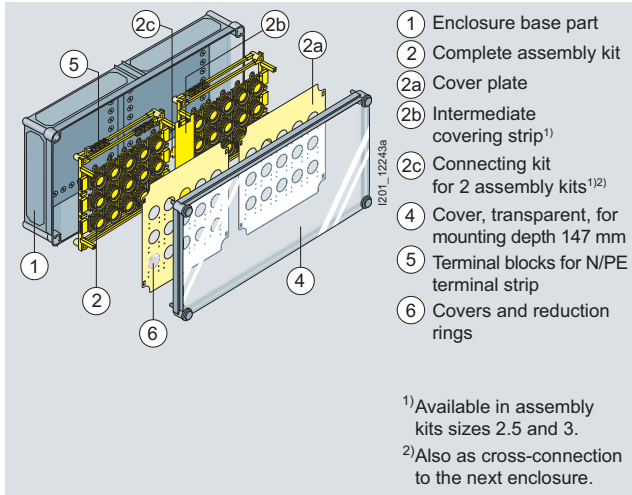
Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG	
Accessories						
 <p>8HP657.</p>	Covering strips, 285 mm long <ul style="list-style-type: none"> For multiple installation of assembly kits with cover plates for covering the intermediate spaces These are essential when using cover locks with manual operation 					
	Versions <ul style="list-style-type: none"> Vertical Horizontal 		8HP6571 8HP6572	1 1	1 unit 1 unit	046 046
 <p>8WA28..</p>	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 		8WA2867 8WA2868 8WA2870	1 1 1	50 units 50 units 50 units	041 041 041
	<ul style="list-style-type: none"> 2.5 ... 16 (can be retrofitted without dismantling the busbar) 		8JH4112	1	10 units	046
 <p>8GB4671</p>	Blanking strips <ul style="list-style-type: none"> 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 × 3 × 25 A	E27	3 × 16	8HP2122	① ② ④	8HP1101 8HP5142 8HP1221
			1 × 16			
2	2 × 3 × 63 A	E33	3 × 16	8HP2131	① ② ④	8HP1101 8HP5162 8HP1221
			1 × 16			
			1 × 16			
2	5 × 3 × 25 A	E27	3 × 35	8HP2125	① ② ④	8HP1102 8HP5145 8HP1222
			1 × 35			
			1 × 35			
2	4 × 3 × 63 A	E33	3 × 35	8HP2133	① ② ④	8HP1102 8HP5164 8HP1222
			1 × 35			
			1 × 35			
3	10 × 3 × 25 A	E27	2 × 3 × 35	8HP2130	① ② ④	8HP1103 8HP5150 8HP1227
			1 × 35			
	8 × 3 × 63 A	E33	2 × 3 × 35	8HP2137	① ② ④	8HP1103 8HP5167 8HP1223
			1 × 35			
2	8 × 3 × 63 A	D02	3 × 50	8HP2157	① ② ④	8HP1102 8HP5157 8HP1222
			1 × 35			
			1 × 35			
NEOZED fuse enclosures						

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

DIAZED/NEOZED fuse systems

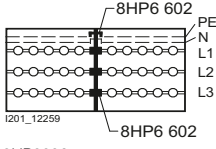
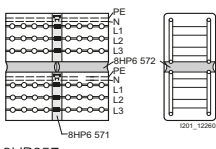




Selection and ordering data

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 × 25 A	8HP2122	1	1 unit	046
			2	5 × 3 × 25 A	8HP2125	1	1 unit	046
			3	10 × 3 × 25 A	8HP2130	1	1 unit	046
8HP2125	63 A	E33	1	2 × 3 × 63 A	8HP2131	1	1 unit	046
			2	4 × 3 × 63 A	8HP2133	1	1 unit	046
			3	8 × 3 × 63 A	8HP2137	1	1 unit	046
NEOZED fuse enclosures								
	Version	Size	Enclosure size	Equipping options				
8HP2157	63 A	D02	2	8 × 3 × 63 A	8HP2157	1	1 unit	046
Individual components								
Complete assembly kits, including cover plates								
	• For DIAZED fuse enclosures	1	E27 E33	2 × 3 × 25 A 2 × 3 × 63 A	8HP5142 8HP5162	1	1 unit	046
8HP5145		2	E27	5 × 3 × 25 A	8HP5145	1	1 unit	046
			E33	4 × 3 × 63 A	8HP5164	1	1 unit	046
8HP5145		3	E27	10 × 3 × 25 A	8HP5150	1	1 unit	046
			E33	8 × 3 × 63 A	8HP5167	1	1 unit	046
	• For NEOZED fuse enclosures	2	D02	8 × 3 × 63 A	8HP5157	1	1 unit	046
8HP5157								
	Guide pins				8HP6600	1	1 unit	046
8HP6600	<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 							

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

DIAZED/NEOZED fuse systems

Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Accessories					
 <p>8HP6 602</p>	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					
		• Assembly kits for 3 busbars 16 x 3 mm (L1, L2, L3)	8HP6602	1	1 unit 046
		• Assembly kits for N/PE bars (2 units required for 5 conductors)	8HP6603	1	1 unit 046
 <p>8HP6 571</p>	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					
		• Vertical	8HP6571	1	1 unit 046
		• Horizontal	8HP6572	1	1 unit 046
 <p>8JH4122</p>	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	8JH4122	1	10 units 046
		10 ... 35	8JH4124	1	10 units 046
		16 ... 50	8JH4125	1	10 units 046
		10 ... 70	8JK3441	1	1 unit 046
 <p>8WA28..</p>	Incoming and outgoing terminals, for bars 6 mm x 6 mm Suitable for N/PE bars Conductor cross-section in mm ² (solid or stranded)				
		• 4	8WA2867	1	50 units 041
		• 25	8WA2868	1	50 units 041
		• 35	8WA2870	1	50 units 041
		• 2.5 ... 16 (can be retrofitted without dismantling the busbar)	8JH4112	1	10 units 046
 <p>8JH4112</p>	Reduction ring <ul style="list-style-type: none"> For snapping into cover plates As reduction ring from E33 to E27 		8HP6542	1	1 unit 046
 <p>8HP654.</p>	Covers For snapping into cover plates Versions <ul style="list-style-type: none"> Blanking plug E27 Blanking plug E33 		8HP6543	1	1 unit 046
			8HP6544	1	1 unit 046

6



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						
	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	250	240	1 × 3NP1143-1DA10	Flat connection	8HP2455
	2	400	360	1 × 3NP1153-1DA10		8HP2456
	3	630	480	1 × 3NP1163-1DA10		8HP2457

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

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

Selection and ordering data

Version	DT	Order No.	PU (UNIT, SET, M)	PS* P. unit	PG	
Complete enclosures						
	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
	2	00	160	1 × 3NP1133-1CA10 2 × 3NP1133-1CA10	8HP2453 8HP2454	1 1 unit 046 1 1 unit 046
	3	1	250	1 × 3NP1143-1DA10	8HP2455	1 1 unit 046
		2	400	1 × 3NP1153-1DA10	8HP2456	1 1 unit 046
		3	630	1 × 3NP1163-1DA10	8HP2457	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



Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Accessories					
3NP1920-1FA00	Description Auxiliary switch (CO contact)	For size 000 00 1 ... 3	3NP1920-1FA00 3NP1930-1FA00 3NP1940-1FA00	1 1 1	1 unit 1 unit 143
3NP1900-1HA00	Description Locking device • 1 set = 10 units	000 ... 3	3NP1900-1HA00	1	1 unit 143
3NP1923-1BD00	Description 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
3NP1933-1BA00	Description 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 143 1 unit 143 1 unit 143 1 unit 143
3NP1933-1BB10	Description 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 143 1 unit 143 1 unit 143 1 unit 143

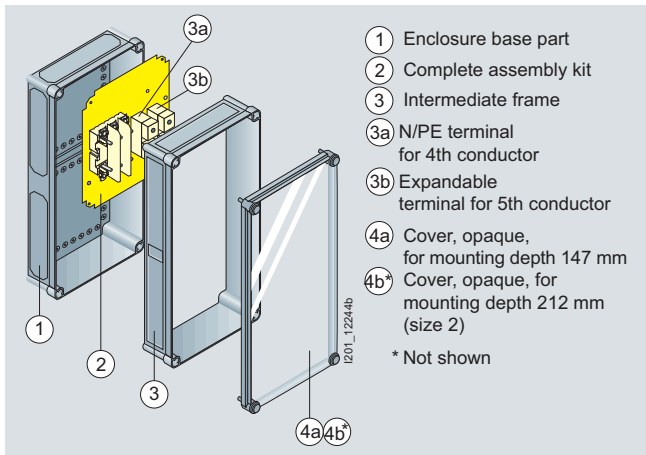
6

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 A	Rated operational current I_e A	Equipment			Complete enclosures Type	Individual components	
			LV HRC fuse base	3a N/PE terminal 4th conductor	3b 5th terminal can be expanded		Image Circuit number	Type
 2	160	125	3 × NH00 up to 50 mm ²	8JH404 up to 35 mm ²	✓	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

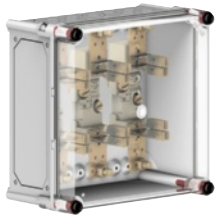
Distribution Systems

LV HRC fuse bases

Selection and ordering data

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



8HP2301

Enclosures, with LV HRC fuse bases

Enclosure size	LV HRC fuse bases	Rated current I_n in A				
2	3 × NH00	160	8HP2301	1	1 unit	046
	3 × NH1	250				
	3 × NH2	400	8HP2312	1	1 unit	046
	3 × NH3	630				
3	3 × NH2	400	8HP2313	1	1 unit	046
	3 × NH3	630				

Individual components



8HP5301

LV HRC fuse bases

Enclosure size	LV HRC fuse bases	Rated current I_n in A				
2	3 × NH00	160	8HP5301	1	1 unit	046
	3 × NH1	250				
	3 × NH2	400	8HP5312	1	1 unit	046
	3 × NH3	630				
3	3 × NH2	400	8HP5312	1	1 unit	046
	3 × NH3	630				


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	
		Type	Designation	Type
	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
2.5	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
3				

Selection and ordering data


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

	Meter enclosures		Order No.	PU	PS*/ P. unit	PG
	Enclosure size	Mounting depth in mm				
2.5	145	8HP2627	1	1 unit	046	
	183	8HP2647	1	1 unit	046	
3	145	8HP2623	1	1 unit	046	
	237	8HP2653	1	1 unit	046	

8HP2623




Individual components

	ISO meter support plates		Order No.	PU	PS*/ P. unit	PG
	With meter fixing screws to DIN 46300 and spacer bolts (15 mm)					
8HP6112	Versions		8HP6111 8HP6112	1	1 unit	046
	<ul style="list-style-type: none"> • For enclosure size 2.5 • For enclosure sizes 3 and 4 					

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Meter enclosures

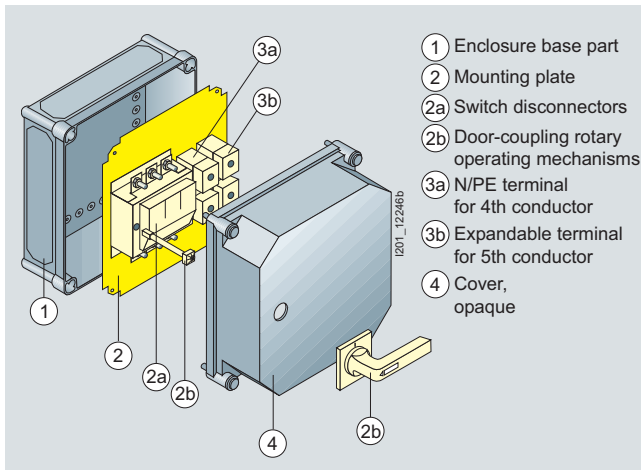
Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Accessories					
 8JH141		8JH141	1	1 unit	046
Support rail <ul style="list-style-type: none"> • For meters • Time switches and timing relays • Mounting length 1 enclosure width = 236 mm 					
Note Two 8JK1 13 mounting rails are required for installing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

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 A	Rated operational current I_e A	Rated breaking capacity	②b Version		Height × width × depth ²⁾ mm	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 × 307 × 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 × 307 × 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 × 307 × 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 × 307 × 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 × 307 × 232	3KE43 up to 2 × 150 mm ² or 1 × 24 mm ²	8JK4 04 up to 150 mm ²	--
		2400 A/660 V (AC-23)	8HP2716	8HP2746	307 × 307 × 232	3KA57 up to 150 mm ²	--	--	--
3	160	160	250 A/660 V (AC-23)	8HP2711	8HP2748	307 × 614 × 167	3KA53 up to 120 mm ²	8WA1 206 up to 70 mm ²	✓
	250	250	250 A/690 V (AC-23 A)	8HP2712	8HP2761	307 × 614 × 260	3KA55 up to 150 mm ²	--	--
			800 A/660 V (AC-22)	8HP2733	8HP2753	307 × 614 × 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 × 614 × 260	3KE43 up to 2 × 150 mm ² or 1 × 240 mm ²	8JK404 up to 150 mm ²	--
			2400 A/660 V (AC-23)	8HP2717	8HP2762	307 × 614 × 260	3KA57 up to 150 mm ²	--	--
	630	630	400 A/690 V (AC-23 B)	8HP2718	8HP2763	307 × 614 × 260	3KA58 up to 240 mm ²	--	--
			2500 A/660 V (AC-23)	8HP2736	8HP2756	307 × 614 × 260	3KE44 up to 240 mm ²	8JK4 06 up to 240 mm ²	--
1000	800 ¹⁾	2500 A/660 V (AC-23)	8HP2738	8HP2758	307 × 614 × 260	3KE45 up to 2 × 240 mm ²	8JK4 06 up to 240 mm ²	--	

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



²⁾ Dimensions without operating handle ②b

ALPHA 8HP Molded-Plastic Distribution Systems

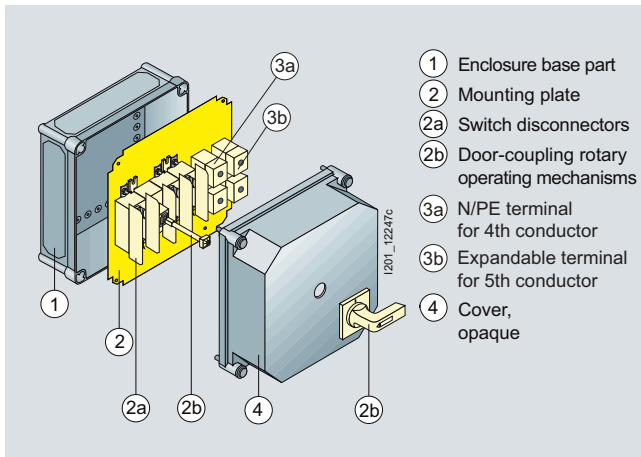
Distribution Systems

3KA, 3KE switch disconnectors

Selection and ordering data

Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG	
Complete enclosures						
 8HP2705	Main switches					
	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
		630	3KA58 3KE44	8HP2718 8HP2736	1 1	1 unit 046 1 unit 046
			800	3KE45	8HP2738	1
	 8HP2742	EMERGENCY-OFF switches				
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
		630	3KA58 3KE44	8HP2763 8HP2756	1 1	1 unit 046 1 unit 046
			800	3KE45	8HP2758	1


Overview



- With motor switching capacity and disconnecter 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								
	63	63	500 A/660 V (AC-23)	8HP2710	8HP2741	3KL50 up to 35 mm ²	NH00	8WA1205 up to 35 mm ²	✓	
	125	125	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	✓	
	250	250	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

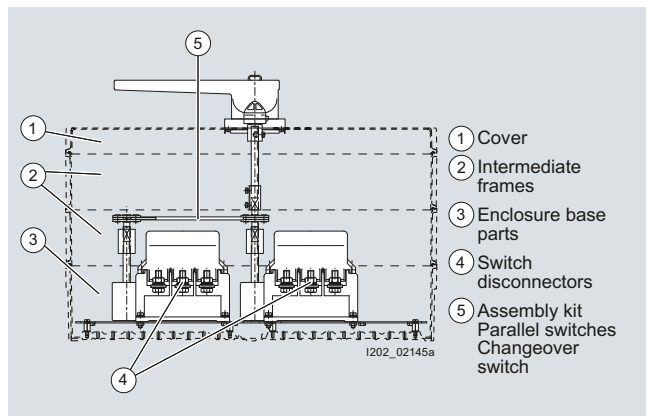
 8HP2715	Main switches						
	Enclosure size	Switch disconnectors	Rated current I_n in A				
	2	3KL50 3KL52 3KL55	63 125 250	8HP2710 8HP2713 8HP2715	1 1 1	1 unit 1 unit 1 unit	046 046 046
 8HP2741	EMERGENCY-OFF switches						
	Enclosure size	Switch disconnectors	Rated current I_n in A				
	2	3KL50 3KL52 3KL55	63 125 250	8HP2741 8HP2743 8HP2745	1 1 1	1 unit 1 unit 1 unit	046 046 046

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			Type
				① Cover ② Intermediate frame ③ Base Type	④ Switch disconnector Type	⑤ Assembly kit	
4	250	250	3KE42 1 × 150 mm ²	① 8HP1204 ② 2 × 8HP1284 ③ 8HP1104	2 × 3KE4230-OAA	Changeover operating mechanism • Break-before-make • Make-before-break	8HP5458 8HP5458-Z ¹⁾
	400	400	3KE43 2 × 150 mm ²	① 8HP1204 ② 2 × 8HP1284 ③ 8HP1104	2 × 3KE4330-OAA	Changeover operating mechanism • Break-before-make • Make-before-break	8HP5458 8HP5458-Z ¹⁾
	630	630	3KE44 2 × 240 mm ²	① 8HP1204 ② 2 × 8HP1284 ③ 8HP1104	2 × 3KE4430-OAA	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			Type
				① Cover ② Intermediate frame ③ Base Type	④ Switch disconnector Type	⑤ Assembly kit	
4	500	500	3KE42 1 × 150 mm ²	① 8HP1204 ② 2 × 8HP1284 ③ 8HP1104	2 × 3KE4230-OAA	Shifting linkage for parallel switching	8HP5457
	800	630	3KE43 2 × 150 mm ²	① 8HP104 ② 2 × 8HP1284 ③ 8HP1104	2 × 3KE4330-OAA	Shifting linkage for parallel switching	8HP5457
	1260	1000	3KE44 2 × 240 mm ²	① 8HP1204 ② 2 × 8HP1284 ③ 8HP1104	2 × 3KE4430-OAA	Shifting linkage for parallel switching	8HP5457

ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

Changeover switches and parallel switches

Selection and ordering data

Ordering information

The assembly kit must be ordered in individual components:

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

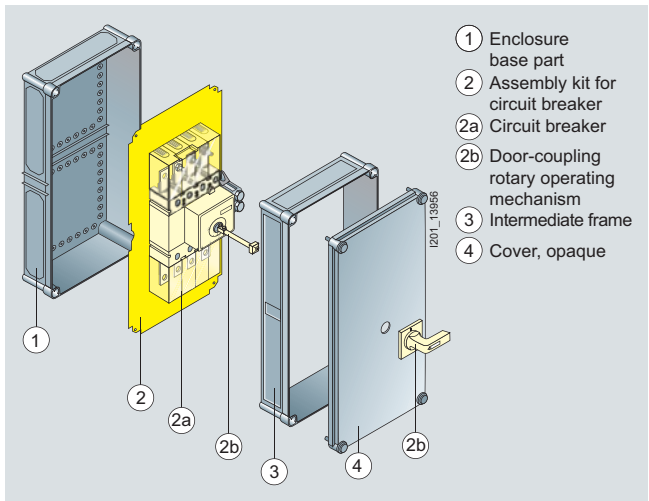
Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Assembly kits for changeover and parallel switches					
Versions					
① Cover		8HP1204	1	1 unit	046
② Intermediate frame		8HP1284	1	1 unit	046
③ Enclosure base part		8HP1104	1	1 unit	046
④ Switch disconnectors					
Changeover switches	Parallel switches 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					
- Changeover operating mechanism break-before-make		8HP5458	1	1 unit	046
- Changeover 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



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.

ALPHA 8HP, diagram of enclosure with 3VL molded case circuit breaker

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 dm ³	Mounting example: • 8HP2003 • 8HP1283 Enclosure volume at least 90 dm ³	Mounting example: • 8HP2003 • 8HP1283 Enclosure volume at least 90 dm ³	Mounting example: • 8HP2003 • 8HP1283 Enclosure volume at least 90 dm ³
100 A	Mounting example: • 8HP2012 Enclosure volume at least 65 dm ³	Mounting example: • 8HP2003 • 8HP1283 Enclosure volume at least 90 dm ³	Mounting example: • 8HP2003 • 8HP1283 Enclosure volume at least 90 dm ³	Mounting example: • 8HP2004 • 8HP1284 Enclosure volume at least 135 dm ³
160 A	Mounting example: • 8HP2012 Enclosure volume at least 65 dm ³	Mounting example: • 8HP2003 • 8HP1283 Enclosure volume at least 90 dm ³	Mounting example: • 8HP2003 • 8HP1283 Enclosure volume at least 90 dm ³	Mounting example: • 8HP2004 • 8HP1284 Enclosure volume at least 135 dm ³
250 A	Mounting example: • 8HP2012 Enclosure volume at least 65 dm ³	Mounting example: • 8HP2004 • 8HP1284 Enclosure volume at least 135 dm ³	Mounting example: • 8HP2004 • 8HP1284 Enclosure volume at least 135 dm ³	Mounting example: • 8HP2003 • 8HP1283 • 8HP2004 • 8HP1284 Enclosure volume at least 180 dm ³


ALPHA 8HP Molded-Plastic Distribution Systems

Distribution Systems

3VL molded case circuit breakers

Order No.	Rated current I_n A	Rated operational current I_e A	Poles	Release	Order No. of built-in molded case circuit breaker
8HP2200-1 8HP2200-2	63	63	3	Thermomagnetic Solid-state	3VL1706-1DA33-0AA0 3VL2706-1SB33-0AA0
8HP2200-3 8HP2200-4			4	Thermomagnetic Solid-state	3VL1706-1EH43-0AA0 3VL2706-1TA43-0AA0
8HP2201-1 8HP2201-2	100	100	3	Thermomagnetic Solid-state	3VL1710-1DA33-0AA0 3VL2710-1SB33-0AA0
8HP2201-3 8HP2201-4			4	Thermomagnetic Solid-state	3VL1710-1EH43-0AA0 3VL2710-1TA43-0AA0
8HP2202-1 8HP2202-2	160	160	3	Thermomagnetic Solid-state	3VL1716-1DA33-0AA0 3VL2716-1SB33-0AA0
8HP2202-3 8HP2202-4			4	Thermomagnetic Solid-state	3VL1716-1EH43-0AA0 3VL2716-1TA43-0AA0
8HP2203-1 8HP2203-2	250	250	3	Thermomagnetic Solid-state	3VL3725-1DC33-0AA0 3VL3725-1SB33-0AA0
8HP2203-3 8HP2203-4			4	Thermomagnetic Solid-state	3VL3725-1EC43-0AA0 3VL3725-1TA43-0AA0

Selection and ordering data

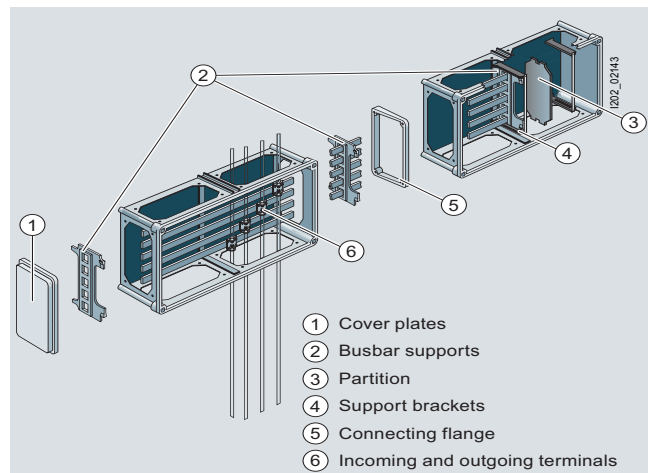
Version	DT	Order No.	PU (UNIT, SET, M)	PS* P. unit	PG
Enclosure with built-in molded case 3VL circuit breaker <ul style="list-style-type: none"> • Size 3 • With intermediate frame • With rotary operating mechanism and terminal cover 					
					
Type	Rated current I_n A	Poles	Release		
• Without connecting bars	63	3	Thermomagnetic Solid-state	8HP2200-1	1 1 unit 046
		4	Thermomagnetic Solid-state	8HP2200-3 8HP2200-4	1 1 unit 046 1 1 unit 046
	100	3	Thermomagnetic Solid-state	8HP2201-1 8HP2201-2	1 1 unit 046 1 1 unit 046
		4	Thermomagnetic Solid-state	8HP2201-3 8HP2201-4	1 1 unit 046 1 1 unit 046
• With connecting bars	160	3	Thermomagnetic Solid-state	8HP2202-1 8HP2202-2	1 1 unit 046 1 1 unit 046
		4	Thermomagnetic Solid-state	8HP2202-3 8HP2202-4	1 1 unit 046 1 1 unit 046
	250	3	Thermomagnetic Solid-state	8HP2203-1 8HP2203-2	1 1 unit 046 1 1 unit 046
		4	Thermomagnetic Solid-state	8HP2203-3 8HP2203-4	1 1 unit 046 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



- ① Cover plates
- ② Busbar supports
- ③ Partition
- ④ Support brackets
- ⑤ Connecting flange
- ⑥ Incoming and outgoing terminals







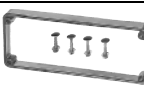
Features

- 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](#).


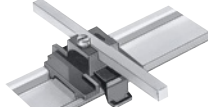
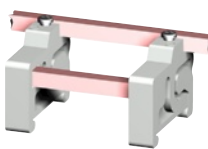




Selection and ordering data

Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
 ① End cover plate Including mounting material 8HP1500		8HP1500	1	1 unit	046
② Busbar supports, for copper busbars Dimensions Rated current of copper busbars (85 °C) Center-to-center clearance L1, L2, L3 mm	A				
 8HP1701	<ul style="list-style-type: none"> • 12 mm × 5 mm • 2 × (12 mm × 5 mm) 	250 400	40	8HP1701	1 1 unit 046
 8HP1704	<ul style="list-style-type: none"> • 20 mm × 8 mm • 2 × (20 mm × 8 mm) 	400 630	49	8HP1704	1 1 unit 046
 8HP1703	<ul style="list-style-type: none"> • 2 × (30 mm × 10 mm) 	1000	58	8HP1703	1 1 unit 046
 8HP1708	③ Partition <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	④ Support bracket <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	⑤ Connecting flanges Including locking screws and nuts			8HP1541	1 1 unit 046

ALPHA 8HP Molded-Plastic Distribution Systems

Busbar Assembly Kits



Busbar supports

Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Busbar supports					
Versions	Number	Cross-section mm			
 8JH4230 <ul style="list-style-type: none"> For PE/neutral busbars, for free mounting 	1	6 × 6	8JH4230	1 1 unit	046
 8HP6601 <ul style="list-style-type: none"> For standard mounting rail 35 mm 	1	6 × 6	8HP6601	1 1 unit	046
 8GF9318-2 <ul style="list-style-type: none"> For standard mounting rail 35 mm (1 pair) 	2 × 1	6 × 6	8GF9318-2	1 10 sets	042
 8GF9320-1 <ul style="list-style-type: none"> Can be screwed on (1 pair) 	2 × 1	6 × 6	8GF9320-1	1 10 sets	042
Busbar supports, 60 mm center-to-center clearance					
Mounting	Number	Cross-section mm			
 8US1923-2AA01 <ul style="list-style-type: none"> External 	1 × 3	12 × 5	8US1923-2AA01	1 10 units	143
 8US1923-3AA01 <ul style="list-style-type: none"> Internal 	1 × 3	30 × 10	8US1923-3AA01	1 10 units	143
 8US1922-2AA00 Cover profile <ul style="list-style-type: none"> Length: 1000 mm Width: 20 ... 30 mm Busbar cross-section <ul style="list-style-type: none"> 5 mm thick 10 mm thick 			8US1922-2AA00 8US1922-2BA00	1 10 units 1 10 units	143 143

ALPHA 8HP Molded-Plastic Distribution Systems

Busbar Assembly Kits

Busbar supports

Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
 <p>Flat copper profiles</p> <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	8HP1783	1	1 unit	046
	for 4 sections, each 307 mm	8HP1784	1	1 unit	046
	for 5 sections, each 307 mm for 6 sections, each 307 mm	8HP1785 8HP1786	1	1 unit	046
Cu 20 × 8	for 3 sections, each 307 mm	8HP1793	1	1 unit	046
	for 4 sections, each 307 mm	8HP1794	1	1 unit	046
	for 5 sections, each 307 mm for 6 sections, each 307 mm	8HP1795 8HP1796	1	1 unit	046
 <p>Flat copper profiles Bare</p>					
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

NEW

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								
Size	Rated current I_n of fuse A	Rated operational current I_e of fuse ¹⁾ A	Connection					
	000	160	120	Box terminal at either top or bottom	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								
Description	Size							
	Auxiliary switch (CO contact)	000	3NP1920-1FA00	1	1 unit	143		
		00	3NP1930-1FA00	1	1 unit	143		
	Locking device	000, 00	3NP1900-1HA00	1	1 unit	143		
	• 1 set = 10 units							
	Saddle terminal, single, 1.5 ... 70 mm ²	00	3NP1933-1BA00	1	1 unit	143		
	• 1 set = 3 units • For flat connection							
	Feeder terminal, 16 ... 95 mm ²	000	3NP1923-1BD00	1	1 unit	143		
	• 1 set = 3 units • For box terminal • To increase the size of the conductor cross-section							
	Fuse carrier with electronic EFM10 fuse monitoring	000	3NP1923-1GB20	1	1 unit	143		
	• Mounting of fuse carriers only possible with raised cover or with intermediate frame, see page 6/10.	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



Selection and ordering data







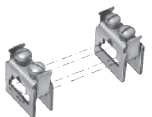


Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Incoming and outgoing terminals					
• For busbars 6 mm × 6 mm					
Conductor cross-section in mm ² (solid or stranded)					
2.5 ... 16		8JH4112	1	10 units	046
					
8JH4112					
16 ... 35 (can be retrofitted without dismantling the busbar)		8JH4114	1	10 units	046
					
8JH4114					
• For busbars 12 mm × 5 mm or 2 × (12 mm × 5 mm)					
Conductor cross-section in mm ² (solid or stranded)					
One bar		Two bars			
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
					
8US1921					
1.5 ... 16	--	8JH4102	1	10 units	046
					
8JH4 02					
10 ... 35	--	8JH4104	1	10 units	046
					
8JH4104					
16 ... 70	16 ... 35	8JH4105	1	10 units	046
					
8JH4105					
16 ... 95	16 ... 70	8JH4106	1	10 units	046
					
8JH4106					
25 ... 120	25 ... 50	8JK3061	1	10 units	046
					
8JK3061					

6

ALPHA 8HP Molded-Plastic Distribution Systems

Busbar Assembly Kits

Terminals

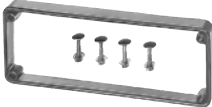

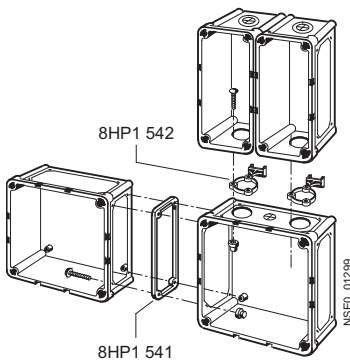




Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
• For busbars 20 mm × 8 mm or 2 × (20 mm × 8 mm)					
Conductor cross-section in mm ² (solid or stranded)	Clamping points	Conductors per clamping point			
1.5 ... 10	2	2	8JK3113	1	1 unit 046
 8JK3113					
10 ... 70	2	1	8JK3143	1	1 unit 046
 8JK3143					
50 ... 240	1	1	8JK3171	1	1 unit 046
 8JK3171					
50 ... 240	1	2	8JK3172	1	1 unit 046
 8JK3172					
• For bars 30 mm × 10 mm or 2 × (30 mm × 10 mm);					
Conductor cross-section in mm ² (solid or stranded)	Description				
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
 8HP1724					
Extension terminals					
Busbar in mm ²	Description				
• 12 × 5 2 × (12 × 5)	<ul style="list-style-type: none"> • 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					
• 20 × 8 2 × (20 × 8)	<ul style="list-style-type: none"> • 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					
• 2 × (30 × 10)	--		8HP1728	1	1 unit 046
 8HP1728					






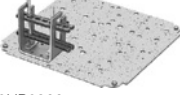

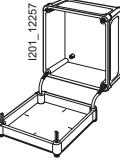
ALPHA 8HP Molded-Plastic Distribution Systems

Accessories

Accessories for enclosures

Selection and ordering data


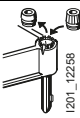







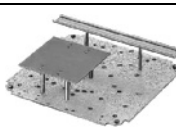
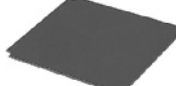

Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Connecting flanges					
Versions					
 <p>8HP1541</p>		8HP1541	1	1 unit	046
<ul style="list-style-type: none"> Including locking screws and nuts 					
 <p>8HP1542</p>		8HP1542	1	1 unit	046
<ul style="list-style-type: none"> Including locking screws and nuts, can be used on the narrow side of size 1 enclosures 					
 <p>When enclosures are connected to each other, one sealing frame is required between each set of flange openings.</p>					
End cover plates					
<ul style="list-style-type: none"> Cover plates including fixing screws and seals Knockouts for fitting cable glands and cable entries 					
Versions					
 <p>8HP1500</p>		8HP1500	1	1 unit	046
<ul style="list-style-type: none"> Without knockouts 					
 <p>8HP1511-1</p>		8HP1511-1	1	1 unit	046
<ul style="list-style-type: none"> With knockouts - 2 × M20 - 3 × M20/M25 - 4 × M25/M40 and 8HP180 cable entry. 					
 <p>8HP1512-1</p>		8HP1512-1	1	1 unit	046
<ul style="list-style-type: none"> With knockouts - 6 × M25/M32 - 2 × M25/M32/M40 and 8HP180 cable entry. 					
 <p>8HP1513-1</p>		8HP1513-1	1	1 unit	046
<ul style="list-style-type: none"> With knockouts - 2 × M20 - 8 × M25/M32 					

Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
 <p>Rubber cable entries</p> <ul style="list-style-type: none"> 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			
1		Ø 12 ... 29 mm	8HP1805	1	1 unit 046
2		Ø 6 ... 15 mm	8HP1806	1	1 unit 046
3		Ø 4 ... 12.5 mm	8HP1807	1	1 unit 046
4		Ø 4 ... 12 mm	8HP1808	1	1 unit 046
 <p>Cable entry plate</p> <ul style="list-style-type: none"> Including <ul style="list-style-type: none"> - 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			8HP1520	1	1 unit 046
 <p>Cable entry for cable entry plate</p> <ul style="list-style-type: none"> For cables Ø 14 mm ... 65 mm Suitable for 8HP1520 cable entry plate 					
8HC6900			8HC6900	1	1 unit 046
 <p>Protective cap</p> <ul style="list-style-type: none"> For 8HC6 900 rubber cable entry Prodproof! <p>Note</p> <p>The lower figure shows an application example for 8HP1525.</p> 					
8HP1525			8HP1525	1	1 unit 046
 <p>Strain relief cleats</p> <ul style="list-style-type: none"> On mounting plate size 2 For enclosure size 2 ... 4 Complete for one cable Mounting option for 2nd strain relief for double cable 					
8HP6322			8HP6322	1	1 unit 046
 <p>Strain relief</p> <p>For individual mounting and for 8HP6322</p>					
8HP1530			8HP1530	1	1 unit 046
 <p>Screws for cover hinges</p> <ul style="list-style-type: none"> 1 set = 2 units Required for line protection if electrical equipment is installed in the cover 					
8HP1811			8HP1811	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
 <p>Quick-release cover locks</p> <ul style="list-style-type: none"> • 1 set = 4 locks • Closing by hand • Opening only with a tool 		8HP1813	1	1 unit	046
8HP1813					
 <p>Grip end</p> <ul style="list-style-type: none"> • 1 set = 4 grip ends • Knurled • For opening by hand 		8HP1810	1	1 unit	046
8HP1810					
 <p>Sealing cap</p> <ul style="list-style-type: none"> • 1 set = 2 caps • For sealing the quick-release cover locks 		8HP1815	1	1 unit	046
8HP1815					
 <p>Breathers, PG 16</p> <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
8HE8541					
 <p>Self-tapping screws</p> <ul style="list-style-type: none"> • 1 set = 50 screws • Suitable for domes in the enclosure base 		8HP6621	1	1 unit	046
8HP6621					
 <p>Mounting rail</p> <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
8JK113					
 <p>Standard mounting rails</p> <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
8HP6510					
 <p>Support rail</p> <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
8JH141					
Note					
Two 8JK113 mounting rails are required for installing the support rail in the enclosure					
 <p>M5 stud bolts</p> <ul style="list-style-type: none"> • Hexagonal • For screwing directly into the M5 threaded bushes in the enclosure base 					
8HP6615					
Versions					
• 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
 <p>M4 stud bolts</p> <p>For screwing into 8JK113 mounting rail or mounting plates</p>					
8JH1353					
Versions					
• Length 20 mm		8JH1353	1	1 unit	143
• Length 30 mm		8JH1354	1	1 unit	143
• Length 50 mm		8JH1356	1	1 unit	143
 <p>Blanking cover plate</p> <p>Made of molded plastic, RAL 7035, light gray</p>					
8HP6586					
Versions					
• For enclosure size 2		8HP6586	1	1 unit	046
• For enclosure size 3		8HP6588	1	1 unit	046
 <p>Holder for measuring instruments</p> <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
8HP6201					

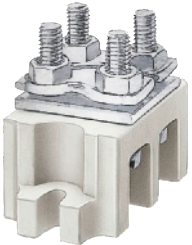
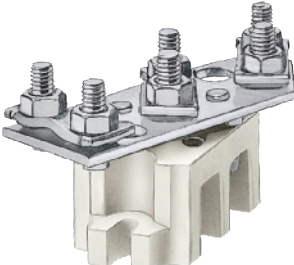
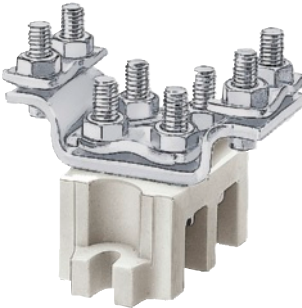
Overview

Base terminals, single-pole, insulated

For conductor connection (solid or stranded):

- In the case of finely stranded and very finely stranded conductors, it is sometimes necessary to reduce the maximum cross-section by up to two units. If necessary the conductors must be protected against fanning out by using end sleeves or similar. When connecting Al conductors, commercially available Al-Cu adapter pieces or clamping connections must be used
- When using different cross-sections, the larger conductor must be laid underneath
- The terminals are characterized by their extreme robustness and high-quality workmanship.

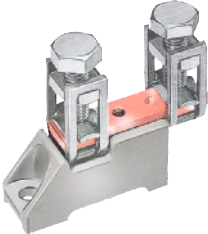
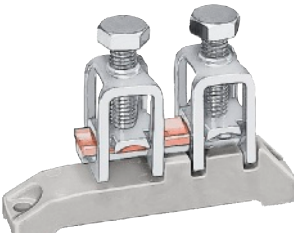
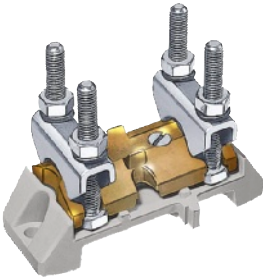
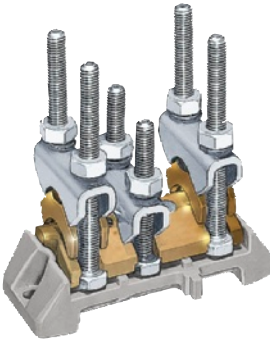
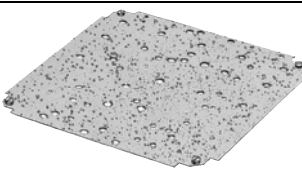
Selection and ordering data

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

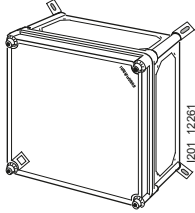
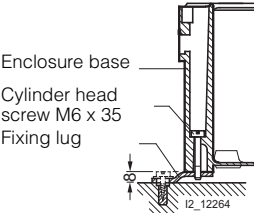
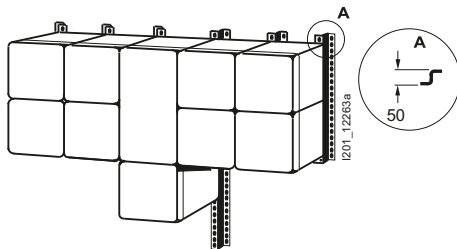
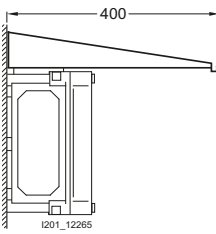
ALPHA 8HP Molded-Plastic Distribution Systems

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		Outgoing cables				
Number	Cross-section in mm ²	Number	Cross-section in mm ²			
 8JK401	1 6 ... 70	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	1 or 2 6 ... 50	8JK404	1	1 unit 046
 8JK4061	1 50 ... 240	1 50 ... 240	1 50 ... 240	8JK4061	1	1 unit 046
 8JK406	2 50 ... 240	2 50 ... 185	2 50 ... 185	8JK406	1	1 unit 046
Molded-plastic partition For 8JK406 and 8JK4061 terminals				8JK4100	1	1 unit 046
 8HP6312	Mounting plate for terminal mounting • Size 2 • For max. 5 terminals, 8JK404, 8JK406 or 8JK4061			8HP6312	1	1 unit 046

Selection and ordering data



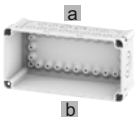
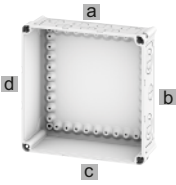
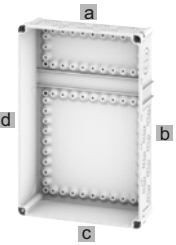
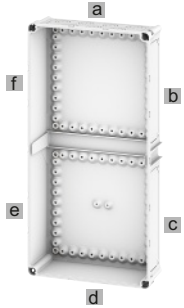
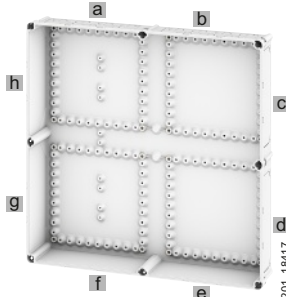
Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
Fixing lugs <ul style="list-style-type: none"> • 1 set = 4 lugs • For individual enclosures and small distribution boards complete with cylinder head screws M6 x 35  		8HC3800	1	1 unit	046
Wall-mounting brackets <ul style="list-style-type: none"> • 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 <ul style="list-style-type: none"> 700 mm long 2000 mm long 		8HC3510 8HP9020	1 1	1 unit 1 unit	046 046
 Rain guards <ul style="list-style-type: none"> • Made of sendzimir-galvanized sheet metal • Thickness: 1.5 mm • Width = Enclosure width x 307 + 185 mm 					
Versions <ul style="list-style-type: none"> • For wall mounting <ul style="list-style-type: none"> - Enclosure width = 1 - Enclosure width = 2 - Enclosure width = 3 - Enclosure width = 4 • With additional fixing for 8HP rack <ul style="list-style-type: none"> - Enclosure width = 3 - Enclosure width = 4 • With additional fixing for 8HP rack and supporting cross arm <ul style="list-style-type: none"> - Enclosure width = 5 - Enclosure width = 6 		8HP9121 8HP9122 8HP9123 8HP9124 8HP9133 8HP9134 8HP9135 8HP9136	1 1 1 1 1 1 1 1	1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit 1 unit	046 046 046 046 046 046 046 046

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		8HP9000	1	1 unit	046															
 8HP9001		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). Ordering example <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	8HP1898	1	1 unit	046
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 																				
Enclosure size 2.5 																				
Enclosure size 3 																				
Enclosure size 4 																				

6

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.

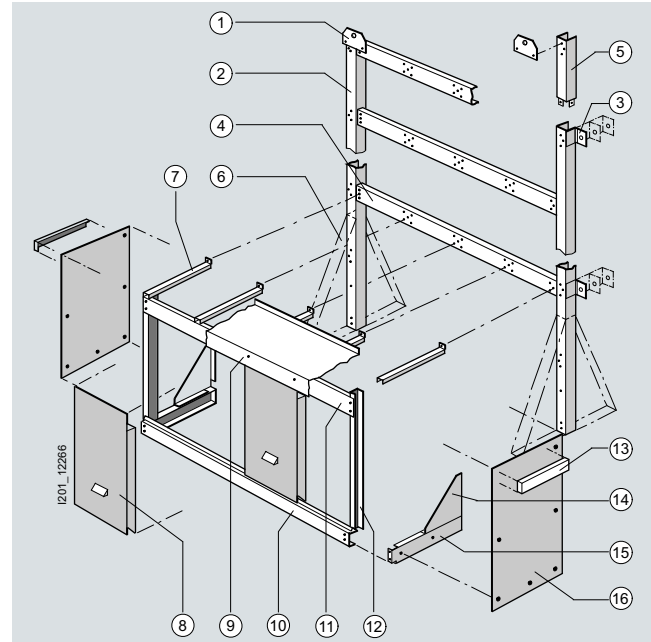
One section corresponds to the basic dimensions of the ALPHA 8HP system: 307 mm.

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.



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

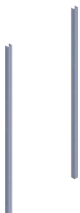

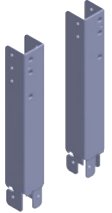
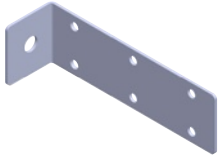
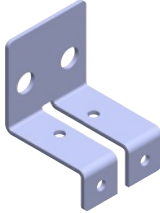
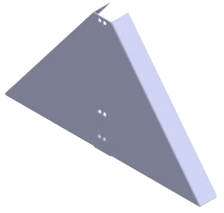

Individual parts for support rack and cable space cover

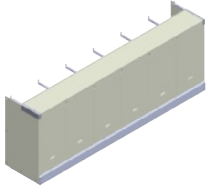


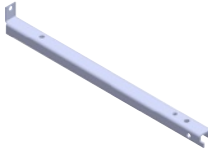
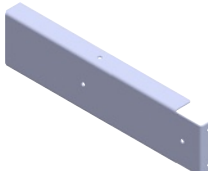

ALPHA 8HP Molded-Plastic Distribution Systems

Accessories

Support rack

Selection and ordering data



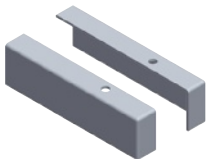

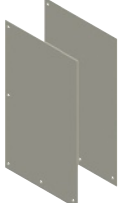
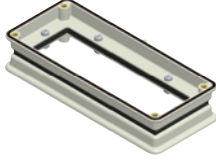

Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG					
Components of the support rack										
 8HP9030-6	② Support profiles <ul style="list-style-type: none"> • 1 set = 2 profiles (left and right) • Including <ul style="list-style-type: none"> - 4 wall-mounting brackets ③ - 2 lifting lugs ① - Mounting material 									
	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					
 8HP9032-6	④ Support rail Including mounting material									
	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				
 8HP9034	⑤ Support profile extensions <ul style="list-style-type: none"> • 1 set = 2 extensions (left and right) • Dimensions: 307 mm 		8HP9034	1	1 unit	046				
 8HP9033	③ Wall-mounting brackets <ul style="list-style-type: none"> • 1 set = 2 brackets • If needed additionally • For wall distances of 50 to 100 mm 		8HP9033	1	1 unit	046				
 8HP9060	Connecting brackets For connecting two racks and for wall mounting at rear of enclosure		8HP9060	1	1 unit	046				
 8HP9031	Supporting feet For free-standing installation without cable space cover		8HP9031	1	1 unit	046				
 8HP9056	Screws and nuts <ul style="list-style-type: none"> • 1 set = 40 units • For fixing the ISO enclosure to the support rails 		8HP9056	1	1 set	046				

Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG	
Complete cable space cover						
 8HP9116	Complete cable space cover Unassembled					
	Number of sections	Height mm				
	2	370 677	8HP9102 8HP9112	1 1	1 unit 1 unit	046 046
	3	370 677	8HP9103 8HP9113	1 1	1 unit 1 unit	046 046
	4	370 677	8HP9104 8HP9114	1 1	1 unit 1 unit	046 046
	5	370 677	8HP9105 8HP9115	1 1	1 unit 1 unit	046 046
	6	370 677	8HP9106 8HP9116	1 1	1 unit 1 unit	046 046
	Note					
For individual parts of the <i>complete cable space cover</i> see More information on page 6/47.						
Cable space cover, single						
 8HP9062	⑫ Corner profile 1 set = 2 profiles					
	Height mm					
	370 677	8HP9061 8HP9062	1 1	1 unit 1 unit	046 046	
 8HP9063-6	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 6	1534 1842	8HP9063-5 8HP9063-6	1 1	1 unit 1 unit	046 046
 8HP9067	⑦ Support strut Number of sections plus 1					
			8HP9067	1	1 unit	046
 8HP9045	⑮ Side support					
			8HP9045	1	2 units	046
 8HP9046	⑭ Joining sheet					
			8HP9046	1	2 units	046

ALPHA 8HP Molded-Plastic Distribution Systems

Accessories

Support rack

Version	DT	Order No.	PU (UNIT, SET, M)	PS*/ P. unit	PG
⑩ Baseboard					
 8HP9038-6	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
⑨ Top cover					
 8HP9073-6	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
⑪ Corner cover					
 8HP9083	1 set = 2 corner covers		8HP9083	1	1 unit 046
⑫ Front cover					
 8HP9072	Height mm				
	370		8HP9071	1	1 unit 046
	677		8HP9072	1	1 unit 046
⑬ Side panel					
 8HP9082	1 set = 2 side panels				
	Height mm				
	370		8HP9081	1	1 unit 046
	677		8HP9082	1	1 unit 046
Double flange					
 8HP9057	For mounting enclosures under the cable space cover		8HP9057	1	1 unit 046
Screws and nuts					
 8HP9056	Assortment sufficient for six sections		8HP9058	1	1 unit 046

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	
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

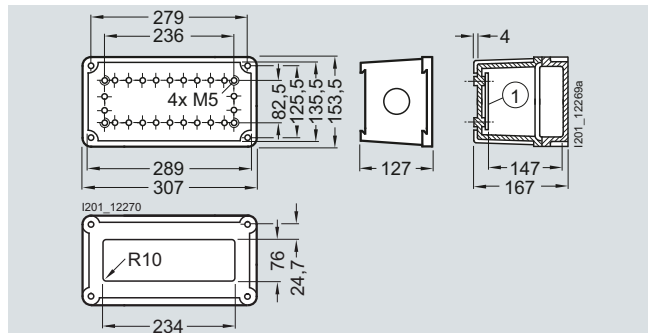
Single enclosures, knockouts

Dimensional drawings

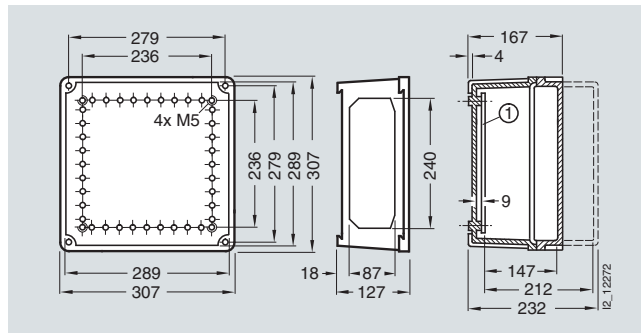
Note: More drawings can be found in the Technology Manual <http://support.automation.siemens.com> -> "Product Support" -> "Electrical Installation Technology".

Empty enclosures

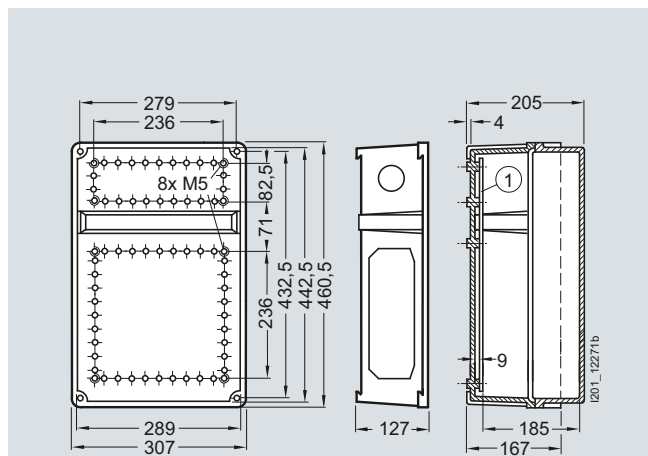
Empty enclosure, cover



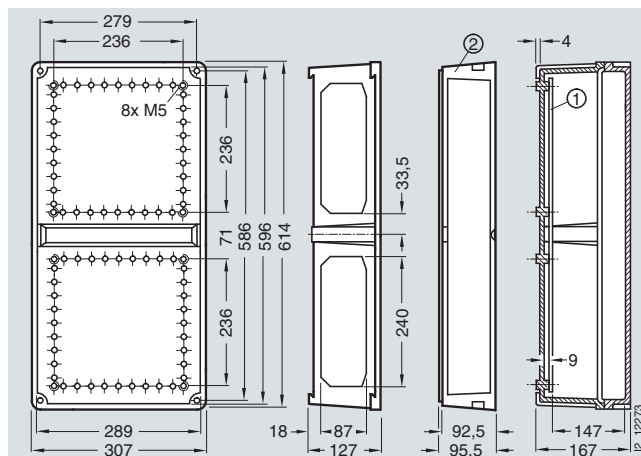
Enclosure size 1



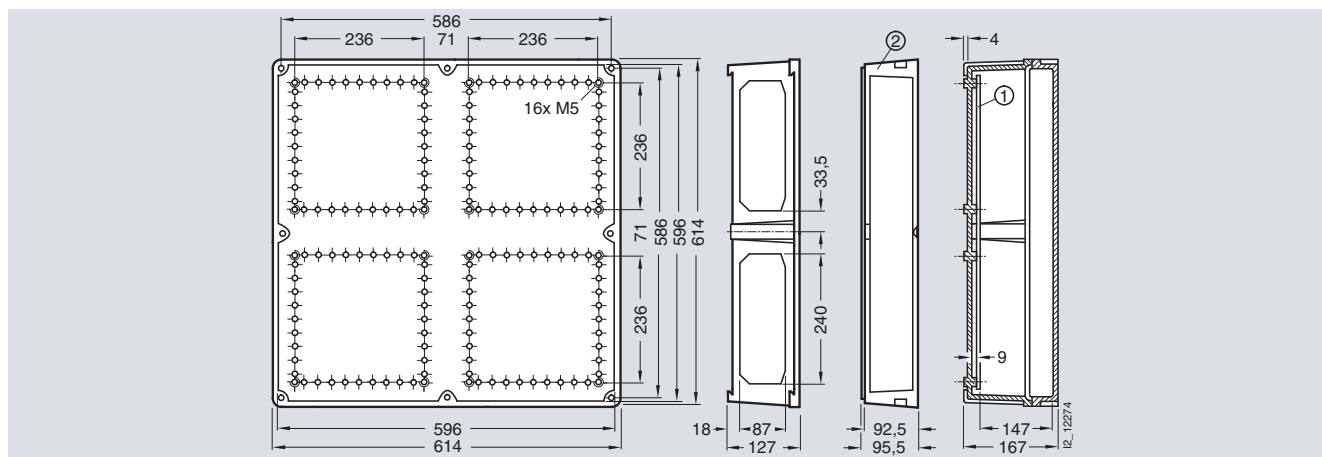
Enclosure size 2



Enclosure size 2.5



Enclosure size 3



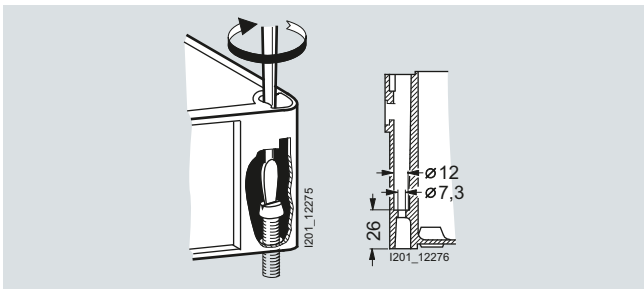
Enclosure size 4

- ① Mounting plate, 2 mm thick
- ② Intermediate frame for increasing mounting depth (can be multi-stacked)

ALPHA 8HP Molded-Plastic Distribution Systems

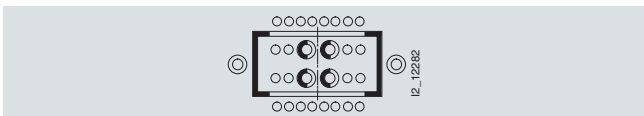
Dimensional Drawings

Single enclosures, knockouts

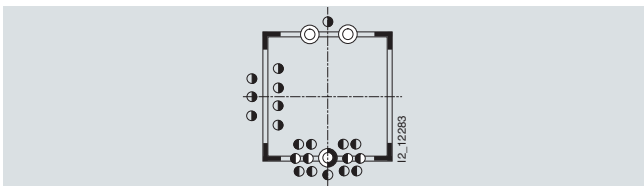


Enclosure fixing

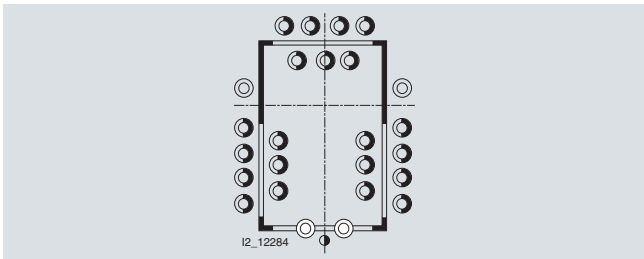
Knockouts for flange openings and cable entries



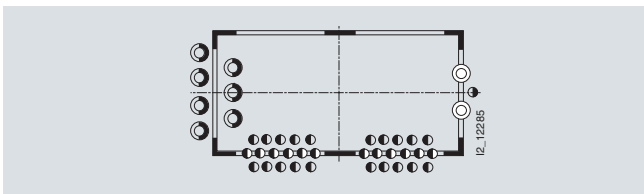
Enclosure size 1



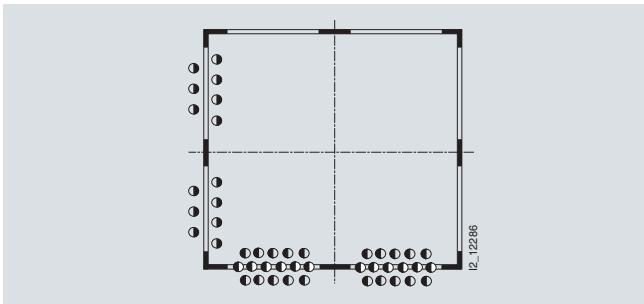
Enclosure size 2



Enclosure size 2.5



Enclosure size 3



Enclosure size 4

- Pg13.5
- Pg16
- Pg29
- ⊙ Pg21/Pg13.5
- ⊙ Pg29/Pg16
- ⊙ Pg48/Pg29
- ⏏ Flange knockouts

If the knockouts do not meet requirements, end cover plates can be mounted with or without knockouts, see page 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

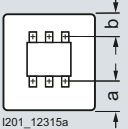
Dimensional Drawings

Enclosures with switching devices

Dimensional drawings

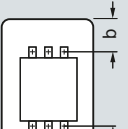
Enclosures with main and EMERGENCY-OFF switches

Connection compartments for integrated switch disconnectors



Type	Dimensions	
	a	b
3KA50	95	125
3KA53	95	95
3KA55	85	85
3KA57	85	85
3KE42	55	55
3KE43	55	55

Enclosure size 2

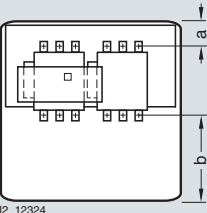
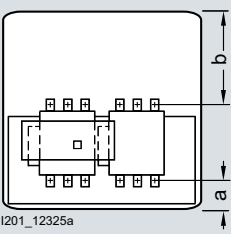


Type	Dimensions	
	a	b
3KA52	285	130
3KE43	285	130
3KE44	255	100
3KE45	250	95

Enclosure size 3

Enclosures with assembly kits for changeover and parallel switches

Mounting options for 3KE switch disconnectors

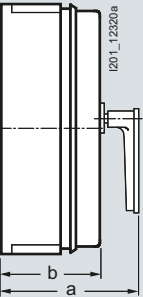



Type	Dimensions	
	a	b
3KE42	90	330
3KE43	90	330
3KE44	55	295

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

6

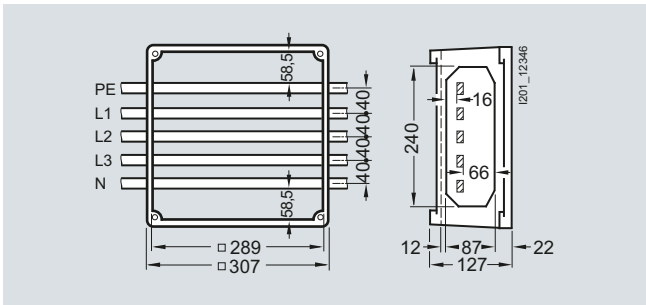
Enclosures with main and EMERGENCY-OFF switches, with switch disconnectors with fuses and with circuit breakers



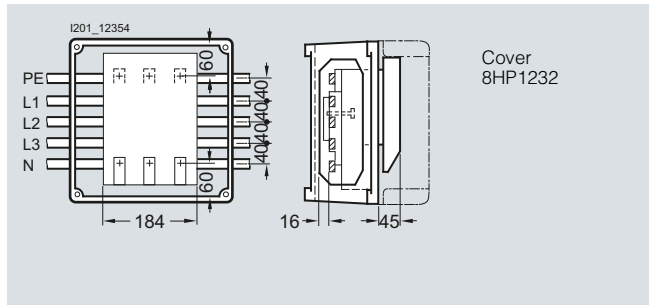
Switch type	Enclosure size	Intermediate frames	Operating mechanism	Dimensions		
				a	b	
3KA50, 3KL50	2	--	Knob	36 mm	300	232
3KA53, 3KL52	2	--	Knob	62 mm	300	232
3KA57, 3KL55	2	--	Handle	140 mm	322	232
3KE42, 3KE43	2	--	Handle	140 mm	322	232
3KE42, 3KE43	3	1	Handle	140 mm	350	260
3KE44, 3KE45	3	1	Handle	200 mm	350	260
3KE changeover contact	4	2	Double handle	280 mm	442	352
8HP4 11.	3 or 4	1	Double handle	280 mm	350	260

Dimensional drawings

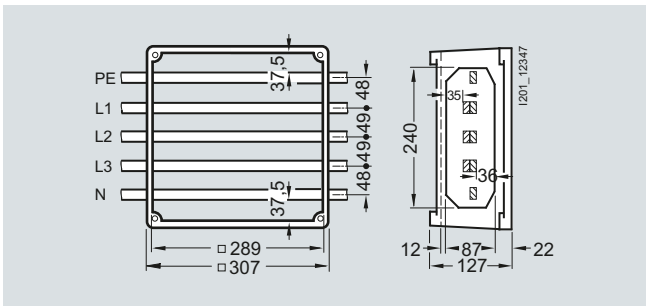
Position of the busbars in the enclosures



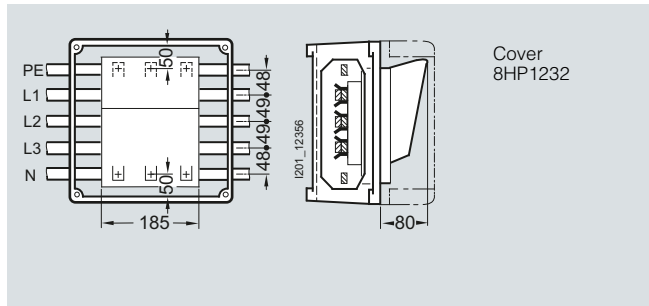
8HP1701



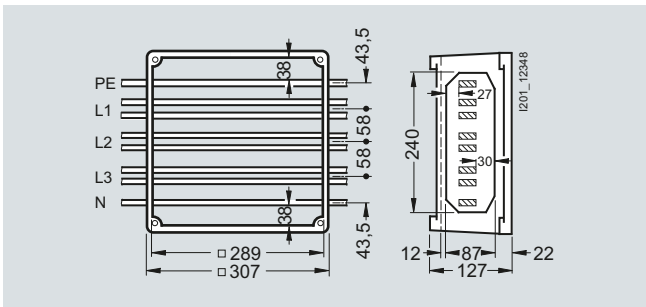
Busbars 250



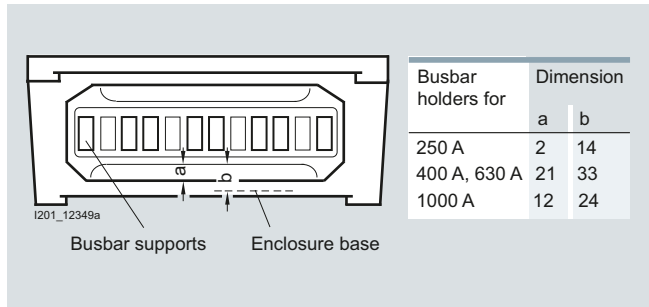
8HP1704



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

Catalog notes

Overview

Trademarks

All product designations may be registered trademarks or product names of Siemens AG or supplier companies whose use by third parties for their own purposes may violate the rights of the owner.

Amendments

All technical data, dimensions and weights are subject to change without notice unless otherwise specified on the pages of this catalog.

Dimensions

All dimensions are in mm.

Images

The illustrations are not binding.

Technical data

The technical data in the catalog are for general information. The instruction manuals and the operating instructions on the products must be observed during assembly, operation and maintenance.

Further technical information is available at www.siemens.com/lowvoltage/support

- under Product List:
 - Technical specifications
- under Entry List:
 - Updates
 - Downloads
 - FAQ
 - Manuals
 - Operating instructions
 - Characteristic curves
 - Certificates

Configurators can be found at www.siemens.com/lowvoltage/configurators

Assembly, operation and maintenance

The instruction manuals and the operating instructions on the products must be observed during assembly, operation and maintenance.

Logistics

General

With regard to delivery service, communications and environmental protection, our logistics service ensures "quality from the moment of ordering right through to delivery". By designing our infrastructure according to customer requirements and implementing electronic order processing, we have successfully optimized our logistics processes.

We are proud of our personal consulting service, on-time deliveries and 1-day transport within Germany.

To this end, we supply the preferred types marked with ► ex works.

We regard the ISO 9001 certification and consistent quality checks as an integral part of our services.

Electronic order processing is fast, cost-efficient and error-free. Please contact us if you want to benefit from these advantages.

Packaging, packing units

The packaging in which our equipment is dispatched provides protection against dust and mechanical damage during transport, thus ensuring that all our products arrive in perfect condition.

We select our packaging for maximum environmental compatibility and reusability (e.g. crumpled paper instead of polystyrene chips for protection during transport in packages up to 32 kg) and, in particular, with a view to reducing waste.

With our multi-unit packaging and reusable packaging, we offer you specific types of packaging that are both kind to the environment and tailored to your requirements:

Your advantages at a glance:

- Lower order costs.
- Cost savings through uniform-type packaging: low/no disposal costs.
- Reduced time and cost thanks to short unpacking times.
- "Just-in-time" delivery directly to the production line helps reduce stock: cost savings through reduction of storage area.
- Fast assembly thanks to supply in sets.
- Standard Euro boxes - corresponding to the Euro pallet modular system - suitable for most conveyor systems.
- Active contribution to environmental protection.

Unless stated otherwise in the "Selection and ordering data" of this catalog, our products are supplied individually packed.

For small parts/accessories, we offer you economical packaging units as standard packs containing more than one item, e.g. 5, 10, 50 or 100 units. It is essential that whole number multiples of these quantities be ordered to ensure satisfactory quality of the products and problem-free order processing.

The products are delivered in a neutral carton. The label includes warning notices, the CE mark, the open arrow recycling symbol, and product description information in English and German. In addition to the Order No. (MLFB) and the number of items in the packaging, the Instr. Order No. is also specified for the operating instructions. It can be obtained from your local Siemens representative (you will find a list of your local Siemens representatives at www.siemens.com/automation/partner).

The device Order No. of most devices can also be acquired through the EAN barcode to simplify ordering and storage logistics.

The Order Nos. and EAN codes are assigned electronically in the master data of the products for low-voltage power distribution and electrical installation.

Ordering notes

Overview

Ordering special versions

When ordering products that differ from the standard versions listed in the catalog, "-Z" must be added to the Order No. indicated and the required features must be specified using 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	Preferred types are device types that can be delivered immediately ex works, i.e. they are dispatched within 24 hours.
A	Two workdays	If ordered in normal quantities, the products are usually delivered within the specified delivery times, calculated from the date we receive your order.
B	One week	In exceptional cases, delivery times may vary from those specified.
C	Three weeks	The delivery times are valid ex works from Siemens AG (products ready for dispatch).
D	Six weeks	Shipping times depend on the destination and the method of shipping. The standard shipping time for Germany is one day.
X	On request	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	DT	Order No.	PU (UNIT, SET, M)	PS/P. unit	PG	Weight
▶	8US1921-2AA00	100	100 units	143	▶	5ST2522	1	1 unit	020	2.041 kg
DT:	Preferred type				DT:	Preferred type				
PU:	100 units (on which price is based)				PU:	One unit (on which price is based)				
PS/P. unit:	100 = minimum order quantity				PS/P. unit:	1 = minimum order quantity				
PG:	143				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!

ATEX explosion protection

Overview

In many industries the production, processing, transport and storage of combustible substances are accompanied by escaping gases, vapor or spray which find their way into the environment. Other processes result in combustible dust. Together with the oxygen in the air, the result can be an explosive atmosphere which will explode if ignited.

Serious injury to persons and damage to property can result particularly in the chemical and petrochemical industry, mineral oil and natural gas production, mining, mills (e. g. grain, solid materials) and many other sectors.

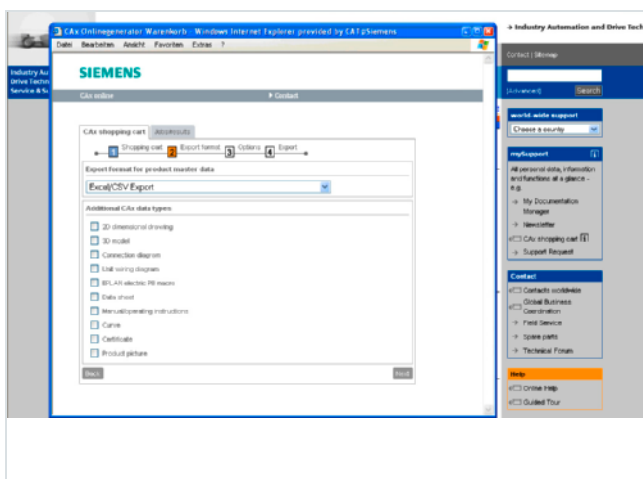
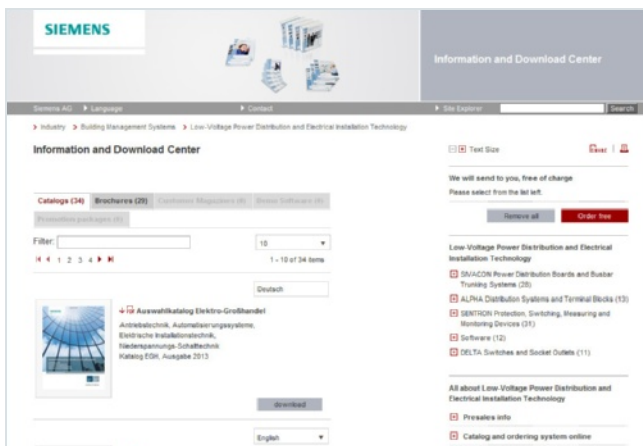
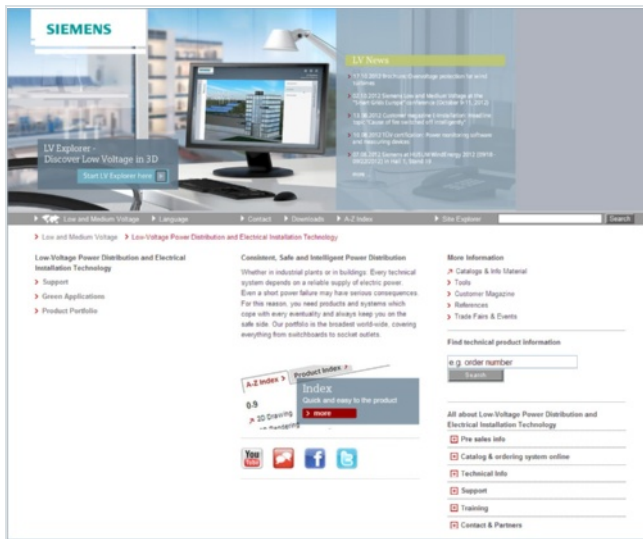
To guarantee the maximum possible safety in these areas, the legislators of most countries have drawn up requirements in the form of laws, regulations and standards. In the course of globalization, great progress has been made with regard to uniform directives for explosion protection.

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

In this catalog, special attention is drawn to devices which comply with the ATEX Directive. However, it does not replace intensive study of the relevant fundamentals and directives when planning and installing electrical systems.



Overview



We regard product support as just as important as the products and systems themselves.

Visit our site on the Internet for a comprehensive offering of support for low-voltage power distribution and electrical installation products, such as

- Operating instructions and manuals for direct download
- Online registration for seminars and events
- Up-to-date answers to your queries and problems
- Software upgrades and updates for fast download
- Telephone assistance in more than 190 countries
- Photos and graphics for external use

and much more - all conveniently and easily accessible.

Address:

www.siemens.com/lowvoltage

You will find regularly updated information material such as catalogues, customer magazines, brochures and trial versions of software for low-voltage power distribution and electrical installation on the Internet at:

www.siemens.com/lowvoltage/infomaterial

Here, you can order your copy of the available documentation or download it in common file formats (PDF, ZIP).

For your configuration systems we can provide technical and graphic data in electronic form for the range of low-voltage power distribution and electrical installation products:

CAX online generator

For the further processing of low-voltage power distribution and electrical installation products in CAE/CAD systems the online generator provides:

- Technical product master data in CSV and Excel format
- Graphic product data
 - 2D dimensional drawings in DXF format (other formats optional)
 - 3D models in STEP format
 - Internal circuit diagrams
 - EPLAN electric P 8 macros
- Documentation in the form of PDF files
 - Product data sheets
 - Manuals
 - Operating instructions
 - Characteristic curves
 - Certificates
- Product photos
- Texts for tenders in GAEB and Text format.

www.siemens.com/cax

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 the Siemens website interface for searching certificates. The main content area is titled 'Low-Voltage Power Distribution and Electrical Installation Technology'. Below the title, there are filter settings for 'Entry list'. The filters are set to 'Entry type: Certificates', 'Certificate type: all', 'Approval office: all', and 'Country: all'. A search results table is displayed with the following columns: Title and Date.

Title	Date
Certificates Test Certificates, Special Test Certificate, Manufacturer 2010 for products: 3P42 more>	2010-12-22 ID: 49932898
Certificates Declaration of Conformity, Manufacturer 2042 for products: 3V49200-0A096-0A48 more>	2010-12-19 ID: 49938117
Certificates General Product Approval, CE Testreport, CB-Attestation (DE), (34875A4) for products: 3V49200-0A096-0A48 more>	2010-12-08 ID: 49938114
Certificates Test Certificates, Type Test Certificate/Test Report, Manufacturer 2010 for products: 3P42 more>	2010-12-08 ID: 49938106
Certificates Test Certificates, Type Test Certificate/Test Report, Manufacturer 2020 for products: 3P42 more>	2010-12-08 ID: 49938106

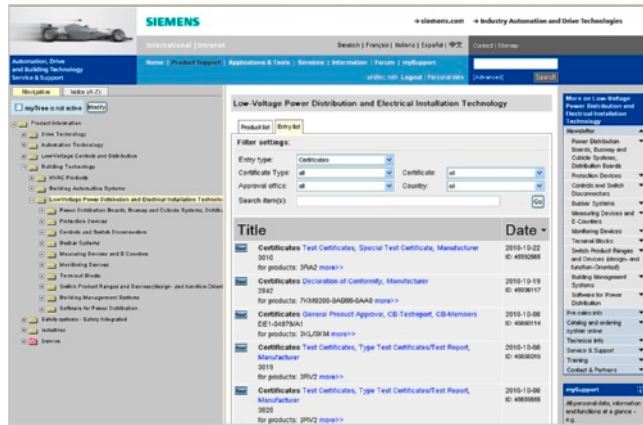
Standards and approvals

Overview

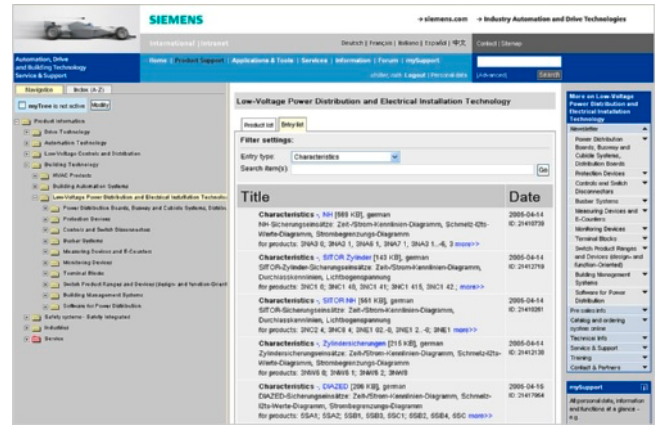
Approvals, test certificates, characteristic curves

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
6026-2	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"



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, Division 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.

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: 

Accident prevention

Test certificates and approvals from the BIA (German statutory industrial accident insurance institution in Bonn) and from SUVA (Swiss institute for accident prevention) are available for some devices in safety control systems. For details, see the respective product descriptions.

Special standards, for example the USA and Canada

In the USA and Canada, for machine tools and processing machines in particular, supply lines are laid using rubber insulated cable enclosed in heavy-duty steel piping similar to that used for gas or water pipe systems.

The tubing system must be completely watertight and electrically conductive (especially sleeving and elbows). Since the tubing system can also be grounded, the cable entries of enclosed units equipped with heavy-gauge or metric threads must be fitted with metal adapters between these threads and the tube thread. The necessary adapters are specified for the switchgear as accessories; they should be ordered separately unless otherwise specified.









Low-voltage switchgear and controlgear for auxiliary circuits (e.g. contactor relays, commanding and signaling devices and auxiliary switches/auxiliary contacts in general) are generally only approved by CSA and UL for "**Heavy Duty**" or "**Standard Duty**" and are identified either with these specifications in addition to the maximum permissible voltage or by using an abbreviation.

The abbreviations are harmonized with IEC 60947-5-1 Appendix 1 Table A.1 and correspond to the stated utilization categories.

For various switching devices detailed in the catalog, a note has been included to the effect that, above a certain voltage, the auxiliary switches/auxiliary contacts can only be used if they have the same polarity. This means that the input terminals can only be connected to the same pole of the control voltage, e.g. "600 V AC above 300 V AC same polarity".

Standards and approvals

Different features of UL approvals (for USA and Canada)

Recognized Component	Listed Product
Devices are identified on the rating plate using the "UL recognition mark": USA:  Canada: 	Devices are identified using the "UL listing mark" on the rating plate e.g. USA:  LISTED 165 C Canada:  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.: <ul style="list-style-type: none"> 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  approved as "listed products", they are also approved as  or  "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 $I_n = 63$ A and $U_{max} = 440$ 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) 2)	USA 1)	China 1)	Russia	USA	Ger- many	United Kingdom	France	Norway	CIS	Italy	Poland	USA	
						GL	LRS	BV	DNV	RMRS	RINA	PRS	ABS	
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)  and  approvals are available in accordance with US approval.

Further certifications and approvals available on request.

More information

You can find more information about standards and approvals at www.siemens.com/lowvoltage/support

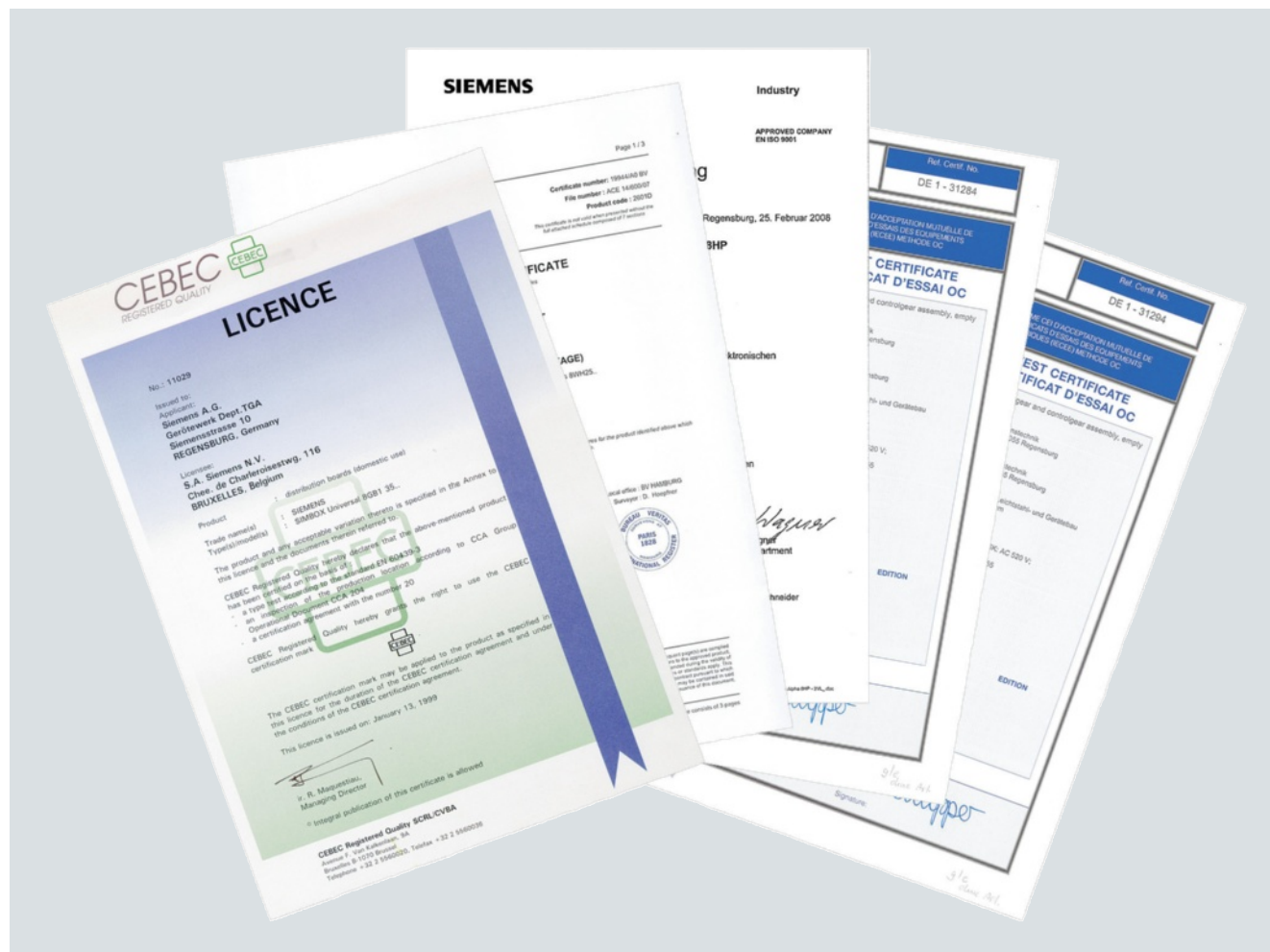
If you have any questions concerning UL/CSA approvals, contact Technical Support, Tel.: +49 (911) 8957222.

Standards and approvals

ALPHA distribution boards

Our ALPHA distribution boards and components are series produced. Regular type tests and routine tests, by both internal and external testing laboratories, ensure uniform quality and the highest technical standards. Our product spectrum ranges from small distribution boards with max. 63 A through to distribution boards with max. 1,250 A busbar load capacity.

The ALPHA distribution boards comply with standards EN 60439-1 (VDE 0660-500) and EN 60439-3 (VDE 0660-504). Our distribution boards are also tested according to the new standard IEC 61439-1 and -2 and certified accordingly with type verification.



You can find more information about approvals and certificates at www.siemens.com/lowvoltage/support

	VDE	EN	DIN	IEC
ALPHA distribution boards				
ALPHA 160 ¹⁾	DIN VDE 0660-500/504	EN 60439-1/-3	--	IEC 60439-1/-3
ALPHA 400	DIN VDE 0660-500/504	EN 61439-1/-2	--	IEC 61439-1/-2
ALPHA 630	DIN VDE 0660-500/504	EN 61439-1/-2	--	IEC 61439-1/-2
ALPHA small distribution boards				
SIMBOX XL flush-mounting and hollow-wall distribution boards	DIN VDE 0603-1	--	--	--
SIMBOX XL surface-mounting distribution boards IP30	DIN VDE 0603-1	--	--	--
SIMBOX WP surface-mounting distribution boards IP65	--	EN 60439-1/-3	--	IEC 60439-1/-3
ALPHA 8HP molded-plastic distribution systems				
ALPHA 8HP molded-plastic distribution systems	DIN VDE 0660-500	EN 60439-1	--	IEC 60439-1
ALPHA modular distribution boards				
ALPHA AS modular distribution boards	DIN VDE 0660-500/504	TSK certificate according to EN 60439-1/-3	--	Type verification according to IEC 61439-1/-2

¹⁾ EN 60439-3 only applies to modular installation devices acc. to EN 43880.

Siemens Contacts

Contact partners at Siemens Industry



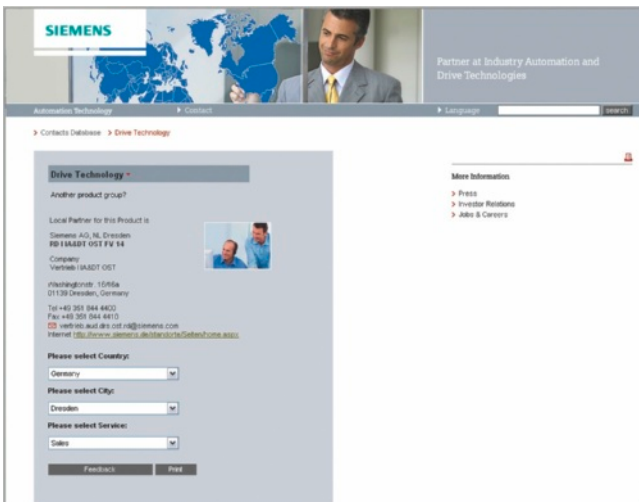
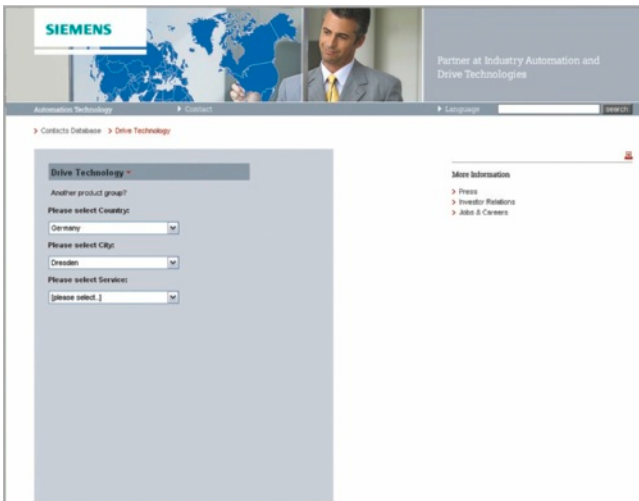
At Siemens Industry, more than 85 000 people are resolutely pursuing the same goal: long-term improvement of your competitive ability. We are committed to this goal. Thanks to our commitment, we continue to set new standards. In all industries – worldwide.

At your service locally, around the globe for consulting, sales, training, service, support, spare parts ... on the entire Siemens Industry range.

Your personal contact can be found in our Contacts Database at: www.siemens.com/automation/partner

You start by selecting a

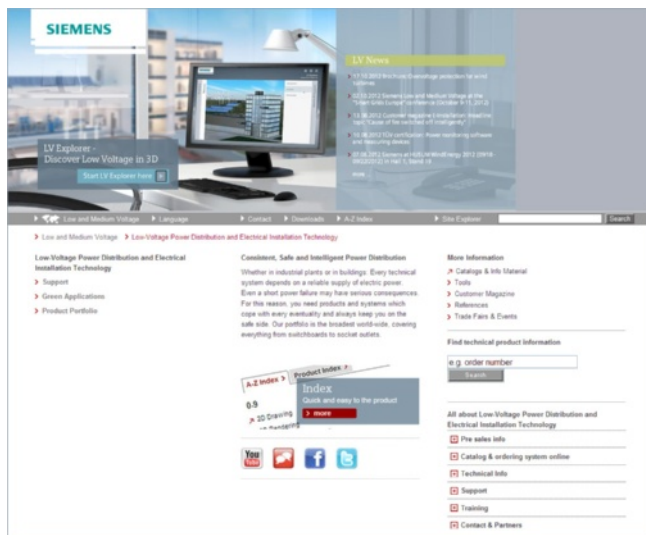
- Product group,
- Country,
- City,
- Service.



Appendix Online Services

Information and Ordering in the Internet and on DVD

Low-Voltage Power Distribution and Electrical Installation Technology on the WWW



Siemens low-voltage power distribution and electrical installation technology offers switchboards, busbar trunking systems, distribution boards as well as protection, switching, measuring and monitoring devices, building management systems, switches and socket outlets. The consistency, modularity and intelligence of our components and systems offer you numerous advantages – throughout their service life and wherever you are in the world. We deliver trendsetting designs and innovative functions in unique quality, developed in accordance with the applicable international standards.

Comprehensive information about all products and systems as well as service and support is available in a compact and clear format on the Internet at:

www.siemens.com/lowvoltage

Product selection using the interactive catalog CA 01 of Industry



Detailed information together with convenient interactive functions:

The interactive catalog CA 01 covers more than 80 000 products and thus provides a full summary of the Siemens Industry Automation and Drive Technologies product base.

Here you will find everything that you need to solve tasks in the fields of automation, switchgear, installation and drives. All information is linked into a user interface which is easy to work with and intuitive.

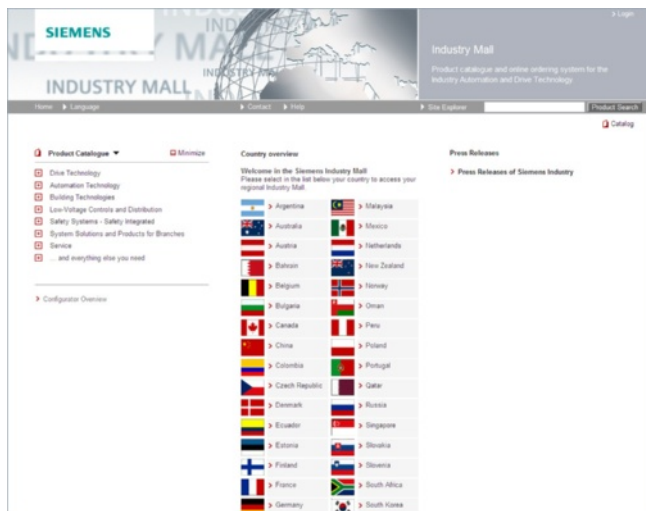
After selecting the product of your choice you can order at the press of a button, by fax or by online link.

Information on the interactive catalog CA 01 can be found on the Internet under

www.siemens.com/automation/ca01

or on DVD.

Easy Shopping with the Industry Mall



The Industry Mall is the virtual department store of Siemens AG on the Internet. Here you have access to a huge range of products presented in electronic catalogs in an informative and attractive way.

Data transfer via EDIFACT allows the whole procedure from selection through ordering to tracking of the order to be carried out online via the Internet.

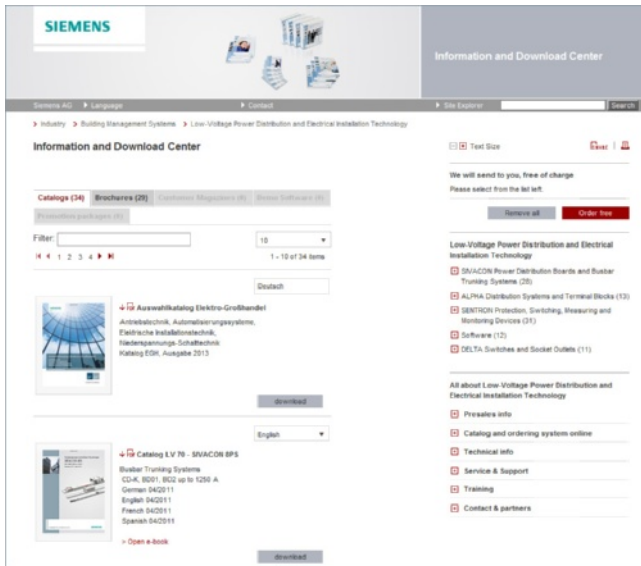
Numerous functions are available to support you.

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

Please visit the Industry Mall on the Internet under:

www.siemens.com/industrymall

Downloading Catalogs



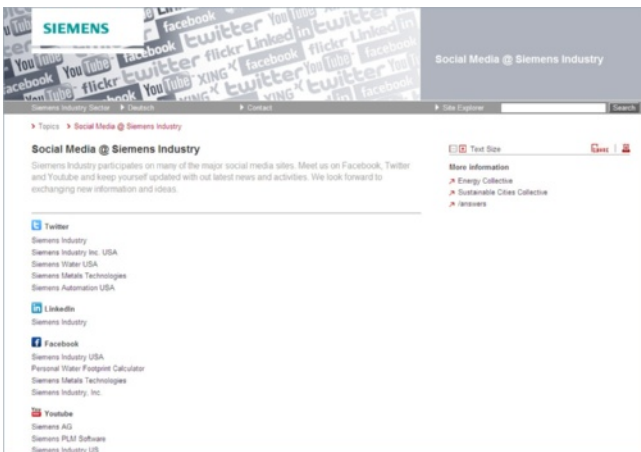
In addition to numerous other useful documents, you can also find the catalogs listed on the back inside cover of this catalog in the Information and Download Center. Without having to register, you can download these catalogs in PDF format or increasingly as digital page-turning e-books.

The filter dialog box above the first catalog displayed makes it possible to carry out targeted searches. If you enter "LV 10" for example, you will find both the LV 10.1 and LV 10.2 catalogs.

Visit us on the web at:

www.siemens.com/lowvoltage/infomaterial

Social Media



Connect with Siemens through social media: visit our social networking sites for a wealth of useful information, demos on products and services, the opportunity to provide feedback, to exchange information and ideas with customers and other Siemens employees, and much, much more. Stay in the know and follow us on the ever-expanding global network of social media.

Connect with Siemens Industry at our central access point:

www.siemens.com/industry/socialmedia

Or via our product pages at:

www.siemens.com/automation

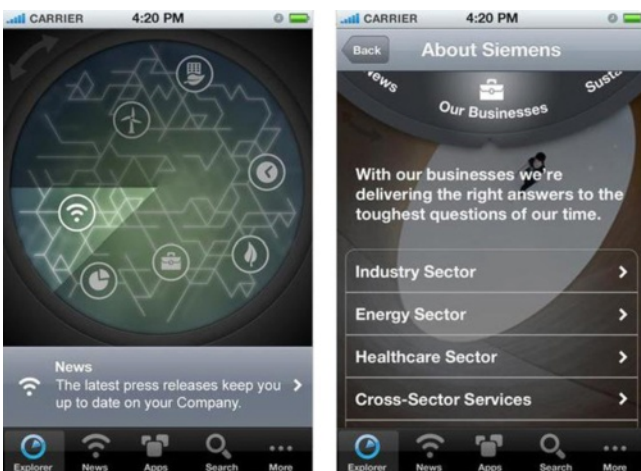
or

www.siemens.com/drives

To find out more about Siemens' current social media activities visit us at:

www.siemens.com/socialmedia

Mobile Media



Discover the world of Siemens.

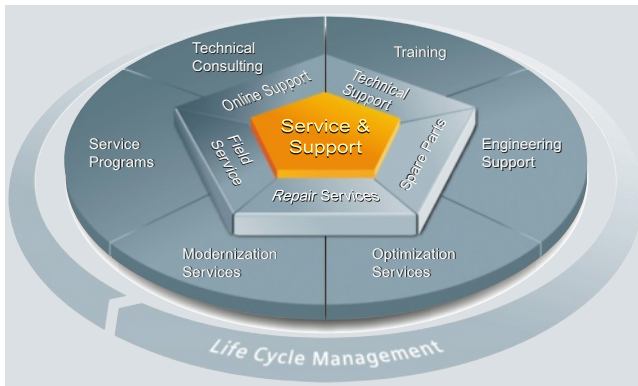
We are also constantly expanding our offering of cross-platform apps for smartphones and tablets. You will find the current Siemens apps at the app store (iOS) or at Google Play (Android).

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

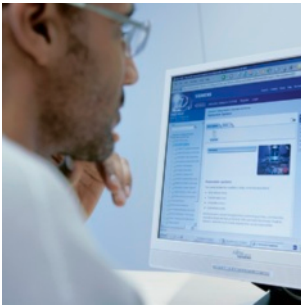
The unmatched complete service for the entire life cycle



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

Field Service



Siemens Field Service offers support with all aspects of commissioning and maintenance – so that the availability of your machines and plants is assured whatever the case.

www.siemens.com/lowvoltage/technical-support

Technical support



The competent consulting service for technical issues with a broad range of customer-oriented services for all our products and systems.

www.siemens.com/lowvoltage/technical-support

Spare parts



Plants and systems in all sectors worldwide are expected to meet ever higher levels of availability. We can help you rule out unexpected stoppages with a global network and optimum logistics chains.

www.siemens.com/lowvoltage/technical-support

Training



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

www.siemens.com/lowvoltage/training

Specification texts

You can obtain qualified, free support to help you produce specifications for technically equipping non-residential and industrial buildings at

www.siemens.com/specifications

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

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
--------------------------	---

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. 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.

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

Subject index

Overview

A

Accessories	
• For meter enclosures	6/21
Actuating flaps	6/12
ALPHA 125	
• Covers and accessories	2/5
• Surface-mounting distribution boards	2/3
ALPHA 125 flush-mounting distribution boards	2/4
ALPHA 630	
• Introduction	3/2
• Kit set of copper busbars and connection accessories	3/20
ALPHA 630 busbar systems	
• Holders	3/19
ALPHA 630 complete distribution boards	3/17
ALPHA 630 distribution boards, flat pack	3/4
ALPHA 630 unequipped distribution boards	3/10
ALPHA 8HP molded-plastic distribution systems	6/2
ALPHA AS assembly kit for modular installation devices	5/9
ALPHA AS busbar system	4/7
ALPHA AS covers and holders	5/7
ALPHA AS holders for terminal strips and locking systems	5/12
ALPHA AS mounting plates and inner sub-distribution boards	5/10
ALPHA AS NF set of copper busbars and connection accessories	4/11
ALPHA AS unequipped distribution boards	4/3
Approbationen	7/9
Assembly kit for 3VL molded case circuit breakers (MCCBs)	5/2
Assembly kit for 3VT molded case circuit breakers	5/6
Assembly kit for modular installation devices	5/9

B

Base terminals	6/39
Baseboard	6/46
Blanking cover plate	6/38
Blanking strips	1/4
Busbar supports	3/19, 6/30, 6/31
Busbar systems	3/19, 4/7
• Holders	3/19

C

Cable entries	6/37
Cable entry for cable entry plate	6/37
Cable entry plate	6/37
Cable space cover	6/43
• Complete	6/45
Changeover switches and parallel switches	6/26
Complete distribution boards, mounted and equipped	3/17
Connecting brackets	6/44
Connecting flanges	6/36
Connecting kits	6/16
Connection accessories	4/11
Corner cover	6/46
Corner profile	6/45
Cover	
• Nontransparent	6/10
Cover profile	6/31
Covers	1/4, 6/16
Covers and accessories	2/5
Covers and holders	5/7
Cu busbars	4/11

D

DIAZED fuse enclosures	6/15
DIAZED/NEOZED	6/14
DIAZED/NEOZED fuse systems	6/14

DIAZED/NEOZED screw-in fuse links	
• Enclosures with ~	6/14
Distribution boards, flat pack for self-assembly	3/4
Double flange	6/46

E

EMERGENCY-OFF switches	6/24
Empty enclosures	
• 8HP	6/8
• Complete	6/9
Enclosures	
• Accessories	6/36
• Base parts	6/10
• for modular installation devices	6/11
• with DIAZED/NEOZED screw-in fuse links	6/14
End cover plates	6/30, 6/36
Extension terminals	6/35

F

Flat copper profiles	6/32
• For special versions	6/32
Flush-mounting distribution boards	2/4
• Unequipped distribution boards	2/4, 2/5
Front covers	1/4, 6/46
Fuse enclosures	
• DIAZED	6/15
Fuse switch disconnectors 3NP1	6/17, 6/33

G

Grip end	6/38
----------	------

H

Holders	
• For PE/neutral busbars	6/31
• For standard mounting rails	6/31
Holders for terminal strips and locking systems	5/12

I

Incoming and outgoing terminals	6/34, 6/35
Incoming and outgoing terminals, for bars 16 mm x 3 mm	6/16
Individual components	
• for empty enclosures	6/10
Inner partitions	1/4
Intermediate covering strips	6/13, 6/16
Intermediate frame	6/10
Introduction to ALPHA 630	3/2

J

Joining sheet	6/45
---------------	------

L

Lateral profile	6/45
LV HRC fuse bases	6/19
• Enclosures with ~	6/19

M

Main switches	6/24
Measuring instruments	6/38
Meter enclosures	6/21
Modular installation devices	5/9
• Enclosures for ~	6/11
Molded case circuit breakers 3VL	5/2, 6/28
Molded-plastic distribution systems	
• ALPHA 8HP	6/2
Molded-plastic partition	6/40
Mounting plate	6/10, 6/40
Mounting plates and inner sub-distribution boards	5/10
Mounting rail	6/22, 6/38

N

N/PE terminal strips	1/4
Normen	7/9
Nuts	6/44, 6/46

P

Partitions	1/4, 6/30
Protective cap	6/37

Q

Quick-release cover locks	6/38
---------------------------	------

R

Rain guards	6/41
Reduction ring	6/16
Rubber cable entries	6/37

S

Safety cylinder locks	1/4
Screws	6/44, 6/46
Screws for cover hinges	6/37
Sealing cap	6/22, 6/38
Self-tapping screws	6/38
Separating tools	6/42
Side panel	6/46
Side support	6/45
SIKclip wiring systems	5/11
SIMBOX WP small distribution boards	1/2
Small distribution boards	
• SIMBOX WP	1/2
Ssingle enclosures 8HP	6/8
Standard mounting rails	6/38
Strain relief	6/37
Strain relief cleats	6/37
Stud bolts	6/38
Support bracket	6/30
Support profile extensions	6/44
Support profiles	6/44
Support rack	6/43
Support rail	6/22, 6/38, 6/44
Support strut	6/45
Supporting feet	6/44
Surface-mounting distribution boards	1/3, 2/3
• IP43	3/10
• Unequipped distribution boards	2/5, 3/10
Switch disconnectors 3KA	5/2
Switch disconnectors 3KA, 3KE	6/23
Switch disconnectors with fuses 3KL	6/25

T

Tools	6/42
Tools and aids	6/42
Top cover	6/46

U

Unequipped distribution boards	3/10, 4/3
• Accessories	4/6
• ALPHA 160 - DIN	2/4, 2/5
• Pre-assembled	3/10

W

Wall mounting of distribution boards	6/41
Wall-mounted distribution boards	
• ALPHA 160 - DIN	6/2
Wall-mounting brackets	6/41, 6/44

Overview

Order No.	Page	Export markings	
		ECCN	AL
3KE4			
3KE4230-0AA	6/27	N	N
3KE4330-0AA	6/27	N	N
3KE4430-0AA	6/27	N	N
3NP1			
3NP1123-1BB20	6/33	N	N
3NP1133-1BB10	6/33	N	N
3NP1133-1BB20	6/33	N	N
3NP1900-1HA00	6/18, 6/33	N	N
3NP1920-1FA00	6/18, 6/33	N	N
3NP1923-1BD00	6/18, 6/33	N	N
3NP1923-1GB20	6/33	N	N
3NP1930-1FA00	6/18, 6/33	N	N
3NP1933-1BA00	6/18, 6/33	N	N
3NP1933-1BB10	6/18	N	N
3NP1933-1GB20	6/33	N	N
3NP1940-1FA00	6/18	N	N
3NP1943-1BA00	6/18	N	N
3NP1943-1BB10	6/18	EAR99	N
3NP1953-1BA00	6/18	N	N
3NP1953-1BB10	6/18	EAR99	N
3NP1963-1BA00	6/18	N	N
3NP1963-1BB10	6/18	EAR99	N
5ST2			
5ST2520	5/11	N	N
5ST2521	5/11	N	N
5ST2522	5/11	N	N
5ST2523	5/11	N	N
5ST2524	5/11	N	N
5ST2525	5/11	N	N
5ST2526	5/11	N	N
5ST2527	5/11	N	N
5ST2528	5/11	N	N
5ST2530	5/11	N	N
5ST2531	5/11	N	N
5ST2532	5/11	N	N
5ST2533	5/11	N	N
8GB1			
8GB1371-0	1/3	N	N
8GB1371-1	1/3	N	N
8GB1371-2	1/3	N	N
8GB1371-3	1/3	N	N
8GB1372-2	1/3	N	N
8GB1372-3	1/3	N	N
8GB1373-3	1/3	N	N
8GB1374-3	1/3	N	N
8GB2			
8GB2051-0	1/4	N	N
8GB2051-1	1/4	N	N
8GB2052-0	1/4	N	N
8GB2052-1	1/4	N	N
8GB2052-2	1/4	N	N

Order No.	Page	Export markings	
		ECCN	AL
8GB2053-0	1/4	N	N
8GB2053-1	1/4	N	N
8GB2054-0	1/4	N	N
8GB2054-1	1/4	N	N
8GB2055-0	1/4	N	N
8GB4			
8GB4671	1/4, 6/13	N	N
8GD9			
8GD9084	5/15	N	N
8GD9132	5/15	N	N
8GD9290	5/15	N	N
8GF5			
8GF5680	3/20, 4/11	N	N
8GF5681	3/20, 4/11	N	N
8GF5682	3/20, 4/11	N	N
8GF5683	3/20, 4/11	N	N
8GF5686	3/20, 4/11	N	N
8GF5687	3/20, 4/11	N	N
8GF5688	3/20, 4/11	N	N
8GF5690	3/20, 4/11	N	N
8GF5737	3/20, 4/11	N	N
8GF5742	3/20, 4/11	N	N
8GF5751	3/20, 4/11	N	N
8GF5752	3/20, 4/11	N	N
8GF5760	3/19, 4/9, 4/10	N	N
8GF5761	3/19, 4/9, 4/10	N	N
8GF5762	3/19, 4/9, 4/10	N	N
8GF5763	3/19, 4/9, 4/10	N	N
8GF5764	3/19, 4/9, 4/10	N	N
8GF5765	3/19, 4/9, 4/10	N	N
8GF5766	3/19, 4/9, 4/10	N	N
8GF5767	3/19, 4/9, 4/10	N	N
8GF5768	3/19, 4/9, 4/10	N	N
8GF5770	3/19, 4/9, 4/10	N	N
8GF5771	3/20, 4/11	N	N
8GF5772	3/20, 4/11	N	N
8GF5773	3/20, 4/11	N	N
8GF5774	3/20, 4/11	N	N
8GF5891	4/11	N	N
8GF5892	4/11	N	N
8GF7			
8GF7155	5/10	N	N
8GF7156	5/10	N	N
8GF7157	5/10	N	N
8GF7158	5/10	N	N
8GF7160	5/10	N	N
8GF7161	5/10	N	N
8GF7175	5/12	N	N
8GF7176	5/12	N	N
8GF7178	5/12	N	N
8GF7180	5/12	N	N

Appendix

Order number index
incl. export markings

Order No.	Page	Export markings	
		ECCN	AL
8GF9			
8GF9318-2	6/31	N	N
8GF9320-1	6/31	N	N
8GF9643	5/15	N	N
8GF9650	5/8	N	N
8GF9652	3/19, 4/9, 4/10, 5/8	N	N
8GF9653	3/19, 4/9, 4/10, 5/8	N	N
8GF9654	5/8	N	N
8GF9655	5/8	N	N
8GF9656	5/8	N	N
8GF9658	5/8	N	N
8GF9660	5/15	N	N
8GF9661	5/15	N	N
8GF9662	5/15	N	N
8GF9670	5/9	N	N
8GF9670-1	5/9	N	N
8GF9671	5/9	N	N
8GF9672	5/12	N	N
8GF9673	5/12	N	N
8GF9674	5/12	N	N
8GF9675	5/12	N	N
8GF9676	5/10	N	N
8GF9677	5/10	N	N
8GF9678	5/10	N	N
8GF9680	5/10	N	N
8GF9681	5/10	N	N
8GF9682	5/10	N	N
8GF9683	5/12	N	N
8GF9861	5/15	N	N
8GK2042			
8GK2042-0KL21	2/3	N	N
8GK2042-0KM21	2/3	N	N
8GK2042-1KL21	2/3	N	N
8GK2042-1KM21	2/3	N	N
8GK2042-2KL21	2/3	N	N
8GK2042-2KM21	2/3	N	N
8GK2042-3KL21	2/3	N	N
8GK2042-3KM21	2/3	N	N
8GK2042-4KL21	2/3	N	N
8GK2042-4KM21	2/3	N	N
8GK2043			
8GK2043-0KL21	2/4	N	N
8GK2043-0KM21	2/4	N	N
8GK2043-1KL21	2/4	N	N
8GK2043-1KM21	2/4	N	N
8GK2043-2KL21	2/4	N	N
8GK2043-2KM21	2/4	N	N
8GK2043-3KM21	2/4	N	N
8GK2043-4KL21	2/4	N	N
8GK2043-4KM21	2/4	N	N
8GK2100			
8GK2100-0KS23	3/6	N	N

Order No.	Page	Export markings	
		ECCN	AL
8GK2100-1KS23	3/6	N	N
8GK2100-2KS23	3/6	N	N
8GK2100-3KL23	3/6	N	N
8GK2100-3KS23	3/6	N	N
8GK2100-4KL23	3/6	N	N
8GK2100-4KS23	3/6	N	N
8GK2124			
8GK2124-1KK23	3/12	N	N
8GK2124-2KK23	3/12	N	N
8GK2124-3KK23	3/12	N	N
8GK2124-3KK33	3/12	N	N
8GK2124-4KK23	3/12	N	N
8GK2124-4KK33	3/12	N	N
8GK2300			
8GK2300-5KL13	3/8	N	N
8GK2300-5KL23	3/8	N	N
8GK2300-5KL43	3/8	N	N
8GK2300-6KL13	3/8	N	N
8GK2300-6KL23	3/8	N	N
8GK2300-6KL43	3/8	N	N
8GK2300-7KL13	3/8	N	N
8GK2300-7KL23	3/8	N	N
8GK2300-7KL43	3/8	N	N
8GK2325			
8GK2325-5KK13	3/14	N	N
8GK2325-5KK23	3/14	N	N
8GK2325-5KK43	3/14	N	N
8GK2325-6KK13	3/14	N	N
8GK2325-6KK23	3/14	N	N
8GK2325-6KK43	3/14	N	N
8GK2325-7KK13	3/14	N	N
8GK2325-7KK23	3/14	N	N
8GK2325-7KK43	3/14	N	N
8GK2348			
8GK2348-7KL00	3/18	N	N
8GK2348-7KL01	3/18	N	N
8GK2420			
8GK2420-6KK14	4/4	N	N
8GK2420-6KK24	4/4	N	N
8GK2420-6KK34	4/4	N	N
8GK2420-7KK14	4/4	N	N
8GK2420-7KK24	4/4	N	N
8GK2420-7KK34	4/4	N	N
8GK6302			
8GK6302-1KK23	5/9	N	N
8GK6302-1KK33	5/9	N	N
8GK6352			
8GK6352-2KK13	5/9	N	N
8GK6352-2KK23	5/9	N	N
8GK6352-2KK33	5/9	N	N

Order number index
incl. export markings

Order No.	Page	Export markings	
		ECCN	AL
8GK6400			
8GK6400-2KK20	5/5	N	N
8GK6400-2KK30	5/5	N	N
8GK6400-4KK10	5/5	N	N
8GK6400-4KK11	5/5	N	N
8GK6400-4KK20	5/5	N	N
8GK6400-4KK30	5/5	N	N
8GK6400-4KK31	5/5	N	N
8GK6401			
8GK6401-4KK10	5/5	N	N
8GK6401-4KK12	5/5	N	N
8GK6401-4KK20	5/5	N	N
8GK6700			
8GK6700-6KK24	5/2	N	N
8GK6700-6KK34	5/3	N	N
8GK6701			
8GK6701-2KK33	5/3	N	N
8GK6704			
8GK6704-2KK33	5/3	N	N
8GK6705			
8GK6705-2KK33	5/3	N	N
8GK6706			
8GK6706-2KK33	5/3	N	N
8GK6707			
8GK6707-2KK33	5/3	N	N
8GK6710			
8GK6710-2KK23	5/2	N	N
8GK6710-2KK33	5/3	N	N
8GK6710-3KK23	5/2	N	N
8GK6710-3KK33	5/3	N	N
8GK6710-4KK13	5/4	N	N
8GK6710-4KK23	5/2	N	N
8GK6710-4KK33	5/3	N	N
8GK6710-6KK13	5/4	N	N
8GK6710-6KK23	5/2	N	N
8GK6710-6KK33	5/3	N	N
8GK6711			
8GK6711-2KK13	5/4	N	N
8GK6711-2KK23	5/2	N	N
8GK6711-4KK13	5/4	N	N
8GK6711-6KK13	5/4	N	N
8GK6711-6KK23	5/2	N	N
8GK6711-6KK33	5/3	N	N
8GK6712			
8GK6712-2KK23	5/2	N	N
8GK6712-4KK13	5/4	N	N
8GK6712-6KK13	5/4	N	N
8GK6712-6KK23	5/2	N	N
8GK6712-6KK33	5/3	N	N
8GK6713			
8GK6713-2KK23	5/2	N	N
8GK6713-4KK13	5/4	N	N
8GK6713-6KK23	5/2	N	N
8GK6713-6KK33	5/3	N	N

Order No.	Page	Export markings	
		ECCN	AL
8GK6714			
8GK6714-2KK23	5/2	N	N
8GK6714-6KK23	5/2	N	N
8GK6714-6KK33	5/3	N	N
8GK6715			
8GK6715-2KK23	5/2	N	N
8GK6715-4KK23	5/2	N	N
8GK6715-4KK33	5/3	N	N
8GK6723			
8GK6723-6KK13	5/4	N	N
8GK6724			
8GK6724-6KK13	5/4	N	N
8GK6725			
8GK6725-4KK13	5/4	N	N
8GK6726			
8GK6726-4KK13	5/4	N	N
8GK6727			
8GK6727-6KK13	5/4	N	N
8GK6750			
8GK6750-2KK23	5/6	N	N
8GK6750-2KK33	5/6	N	N
8GK6750-4KK13	5/6	N	N
8GK6750-4KK23	5/6	N	N
8GK6750-4KK33	5/6	N	N
8GK6750-6KK13	5/6	N	N
8GK6751			
8GK6751-4KK13	5/6	N	N
8GK6751-6KK13	5/6	N	N
8GK6752			
8GK6752-6KK23	5/6	N	N
8GK6752-6KK33	5/6	N	N
8GK6753			
8GK6753-6KK13	5/6	N	N
8GK6754			
8GK6754-2KK23	5/6	N	N
8GK6754-6KK13	5/6	N	N
8GK6754-6KK23	5/6	N	N
8GK6754-6KK33	5/6	N	N
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

Appendix

Order number index
incl. export markings

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
8GK9515-8KK10	3/8, 3/14	N	N
8GK9515-8KK11	3/8, 3/14, 4/4	N	N
8GK9515-8KK12	3/8, 3/14, 4/4	N	N

Order number index
incl. export markings

Order No.	Page	Export markings	
		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			

Order No.	Page	Export markings	
		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

Appendix

Order number index
incl. export markings

Order No.	Page	Export markings	
		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

Order number index
incl. export markings

Order No.	Page	Export markings	
		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	91999
8HP1542	6/36	N	91999
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

Order No.	Page	Export markings	
		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

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Industry Automation, Drive Technologies and Low-Voltage Power Distribution

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System Solutions for Industry		<i>Catalog</i>	Low-Voltage Power Distribution and Electrical Installation Technology		<i>Catalog</i>
Interactive Catalog on DVD			SENTRON Protection, Switching, Measuring and Monitoring Devices		LV 10.1
Products for Automation and Drives and Low-Voltage Power Distribution and Electrical Installation Technology		CA 01	SIVACON · ALPHA Switchboards and Distribution Systems		LV 10.2
Building Control			Standard-Compliant Components for Photovoltaic Systems		LV 11
GAMMA Building Control		ET G1	Controls and Components for Applications acc. to UL 3WT Air Circuit Breakers up to 4000 A		LV 16 LV 35
Drive Systems			3VT Molded Case Circuit Breakers up to 1600 A		LV 36
SINAMICS G130 Drive Converter Chassis Units		D 11	<i>Digital: SIVACON System Cubicles, System Lighting and System Air-Conditioning</i>		LV 50
SINAMICS G150 Drive Converter Cabinet Units			<i>Digital: ALPHA Distribution Systems</i>		LV 51
SINAMICS GM150, SINAMICS SM150 Medium-Voltage Converters		D 12	ALPHA FIX Terminal Blocks		LV 52
ROBICON Perfect Harmony Medium-Voltage Air-Cooled Drives Germany Edition		D 15.1	SIVACON S4 Power Distribution Boards		LV 56
<i>Digital: SINAMICS G180 Converters – Compact Units, Cabinet Systems, Cabinet Units Air-Cooled and Liquid-Cooled</i>		D 18.1	SIVACON 8PS Busbar Trunking Systems		LV 70
SINAMICS S120 Chassis Format Units and Cabinet Modules		D 21.3	<i>Digital: DELTA Switches and Socket Outlets</i>		ET D1
SINAMICS S150 Converter Cabinet Units			Motion Control		
SINAMICS DCM Converter Units		D 23.1	SINUMERIK & SIMODRIVE Automation Systems for Machine Tools		NC 60
SINAMICS DCM Cabinet		D 23.2	SINUMERIK & SINAMICS Equipment for Machine Tools		NC 61
SINAMICS and Motors for Single-Axis Drives		D 31	SINUMERIK 840D sl Type 1B Equipment for Machine Tools		NC 62
Three-Phase Induction Motors SIMOTICS HV, SIMOTICS TN		D 84.1	SINUMERIK 808D, SINAMICS V60 and G120, SIMOTICS 1FL5 and 1LE1		NC 81.1
• Series H-compact			SINUMERIK 828D BASIC T/BASIC M, SINAMICS S120 Combi, 1FK7 and 1PH8 motors		NC 82
• Series H-compact PLUS			SIMOTION, SINAMICS S120 & SIMOTICS Equipment for Production Machines		PM 21
Asynchronous Motors Standardline		D 86.1	Drive and Control Components for Cranes		CR 1
Synchronous Motors with Permanent-Magnet Technology, HT-direct		D 86.2	Power Supply and System Cabling		
DC Motors		DA 12	Power supply SITOP		KT 10.1
SIMOREG DC MASTER 6RA70 Digital Chassis Converters		DA 21.1	Safety Integrated		
SIMOREG K 6RA22 Analog Chassis Converters		DA 21.2	Safety Technology for Factory Automation		SI 10
<i>Digital: SIMOREG DC MASTER 6RM70 Digital Converter Cabinet Units</i>		DA 22	SIMATIC HMI/PC-based Automation		
SIMOVERT PM Modular Converter Systems		DA 45	Human Machine Interface Systems/PC-based Automation		ST 80/ ST PC
SIEMOSYN Motors		DA 48	SIMATIC Ident		
MICROMASTER 420/430/440 Inverters		DA 51.2	Industrial Identification Systems		ID 10
MICROMASTER 411/COMBIMASTER 411		DA 51.3	SIMATIC Industrial Automation Systems		
SIMOVERT MASTERDRIVES Vector Control		DA 65.10	Products for Totally Integrated Automation		ST 70
SIMOVERT MASTERDRIVES Motion Control		DA 65.11	SIMATIC PCS 7 Process Control System		ST PCS 7
Synchronous and asynchronous servomotors for SIMOVERT MASTERDRIVES		DA 65.3	Add-ons for the SIMATIC PCS 7 Process Control System		ST PCS 7.1
SIMODRIVE 611 universal and POSMO		DA 65.4	<i>Digital: Migration solutions with the SIMATIC PCS 7 Process Control System</i>		ST PCS 7.2
<i>Note: Additional catalogs on SIMODRIVE or SINAMICS drive systems and SIMOTICS motors with SINUMERIK and SIMOTION can be found under Motion Control</i>			SIMATIC NET		
Low-Voltage Three-Phase-Motors			Industrial Communication		IK PI
SIMOTICS Low-Voltage Motors		D 81.1	SINVERT Photovoltaics		
MOTOX Geared Motors		D 87.1	Inverters and Components for Photovoltaic Installations		RE 10
SIMOGEAR Geared Motors		MD 50.1	SIRIUS Industrial Controls		
SIMOGEAR Gearboxes with adapter		MD 50.11	SIRIUS Industrial Controls		IC 10
Mechanical Driving Machines			Information and Download Center		
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FLENDER High Performance Couplings		MD 10.2	There you'll find additional catalogs in other languages.		
FLENDER SIG Standard industrial gear unit		MD 30.1	Please note the section "Downloading catalogs" on page "Online services" in the appendix of this catalog.		
FLENDER SIP Standard industrial planetary gear units		MD 31.1			
Process Instrumentation and Analytics					
Field Instruments for Process Automation		FI 01			
<i>Digital: SIPART Controllers and Software</i>		MP 31			
Products for Weighing Technology		WT 10			
<i>Digital: Process Analytical Instruments</i>		PA 01			
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