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TriLine® ASSEMBLY System PowerModules

Power and productivity
for a better world™



TriLine® ASSEMBLY System

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TriLine® PowerModules

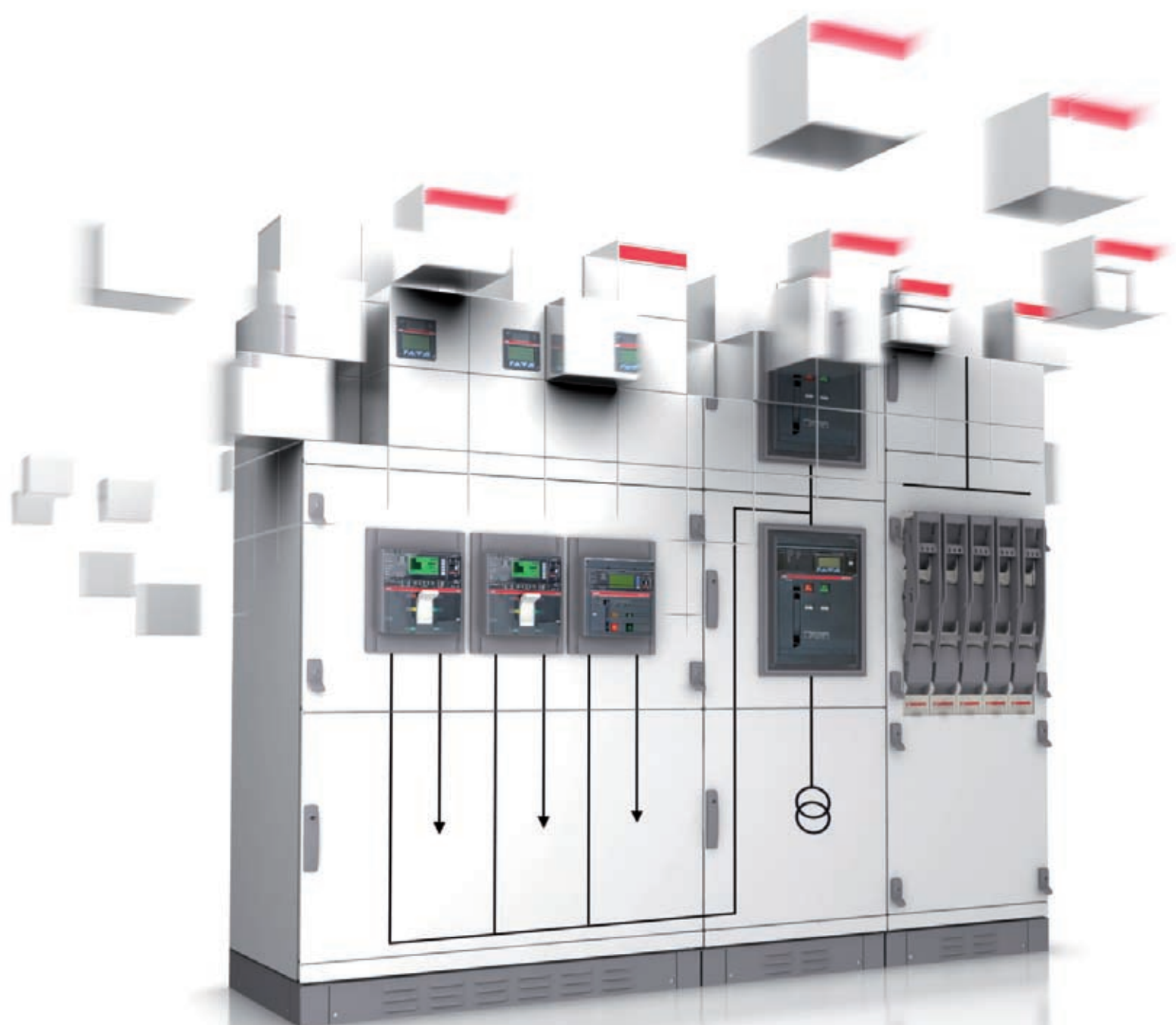
The new modular system intelligence

STRIEBEL & JOHN has based its TriLine® low-voltage switchgear and controlgear assembly system on a modular design. With our new PowerModules, we can offer real added value: a high degree of flexibility thanks to versatile modular technology, simplest planning, high packing densities and optimally adapted delivery formats. This is what makes the PowerModules particularly attractive and cost-effective.

The new modular system is tested in accordance with IEC 61439 and available in the first phase for all ASSEMBLIES with a rated current of 1000 A to 2500 A. The PowerModules naturally offer you the same tried and tested functions that switchgear manufacturers have come accustomed to with TriLine®, such as maximum stability, numerous configuration options, high personal and system safety and serial manufacturing.

Benefits for you:

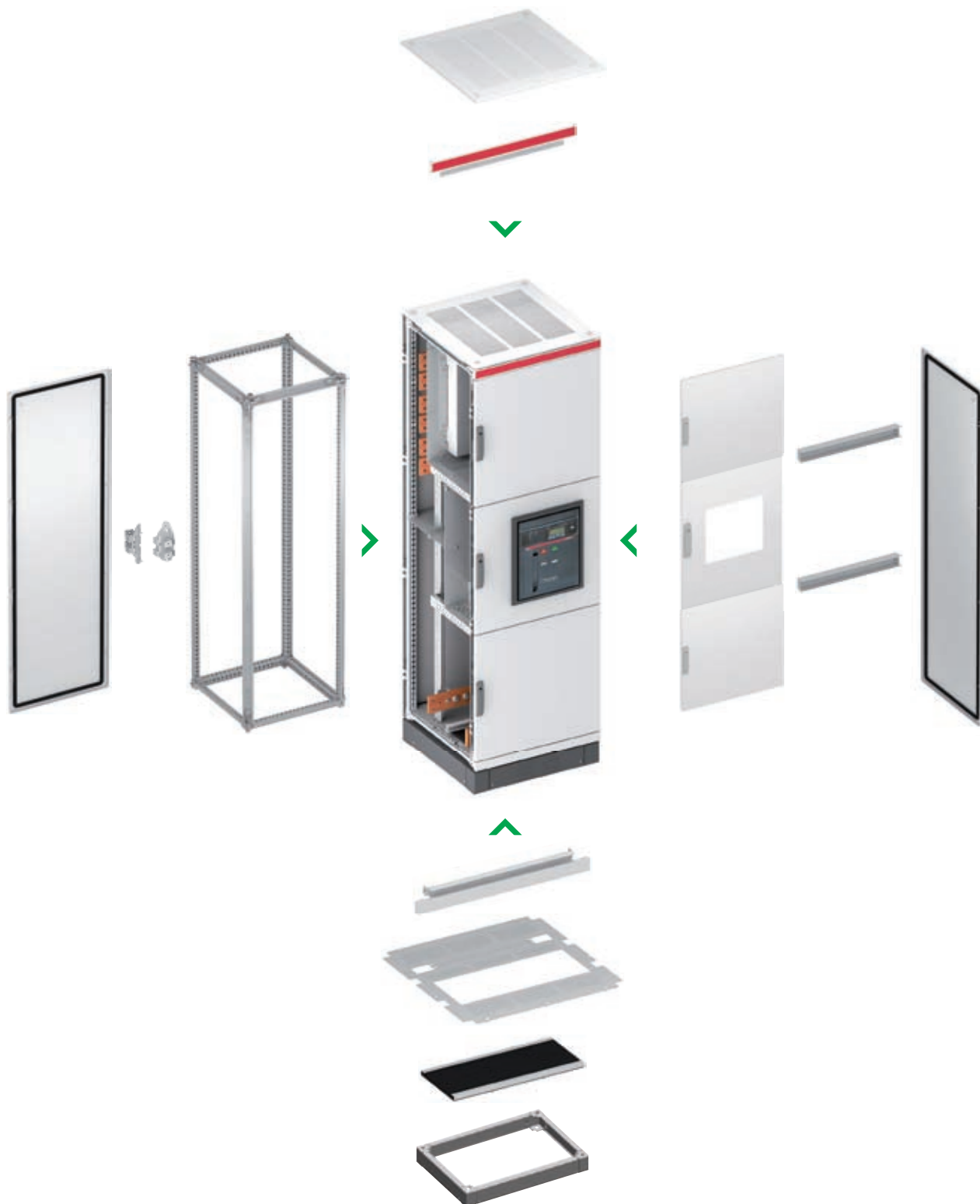
- Wide range of options thanks to intelligent modularity
- Space-saving integration of devices due to high packing density
- Optimum planning and calculation with the EDS PowerCon configuration software
- The right delivery format for every user
- The right PowerModule for every application
- Clearly structured mounting instructions for quick and easy assembly
- Saves storage space
- High level of availability
- Maximum flexibility, safety and cost-effectiveness



TriLine® PowerModules – The new modular system intelligence

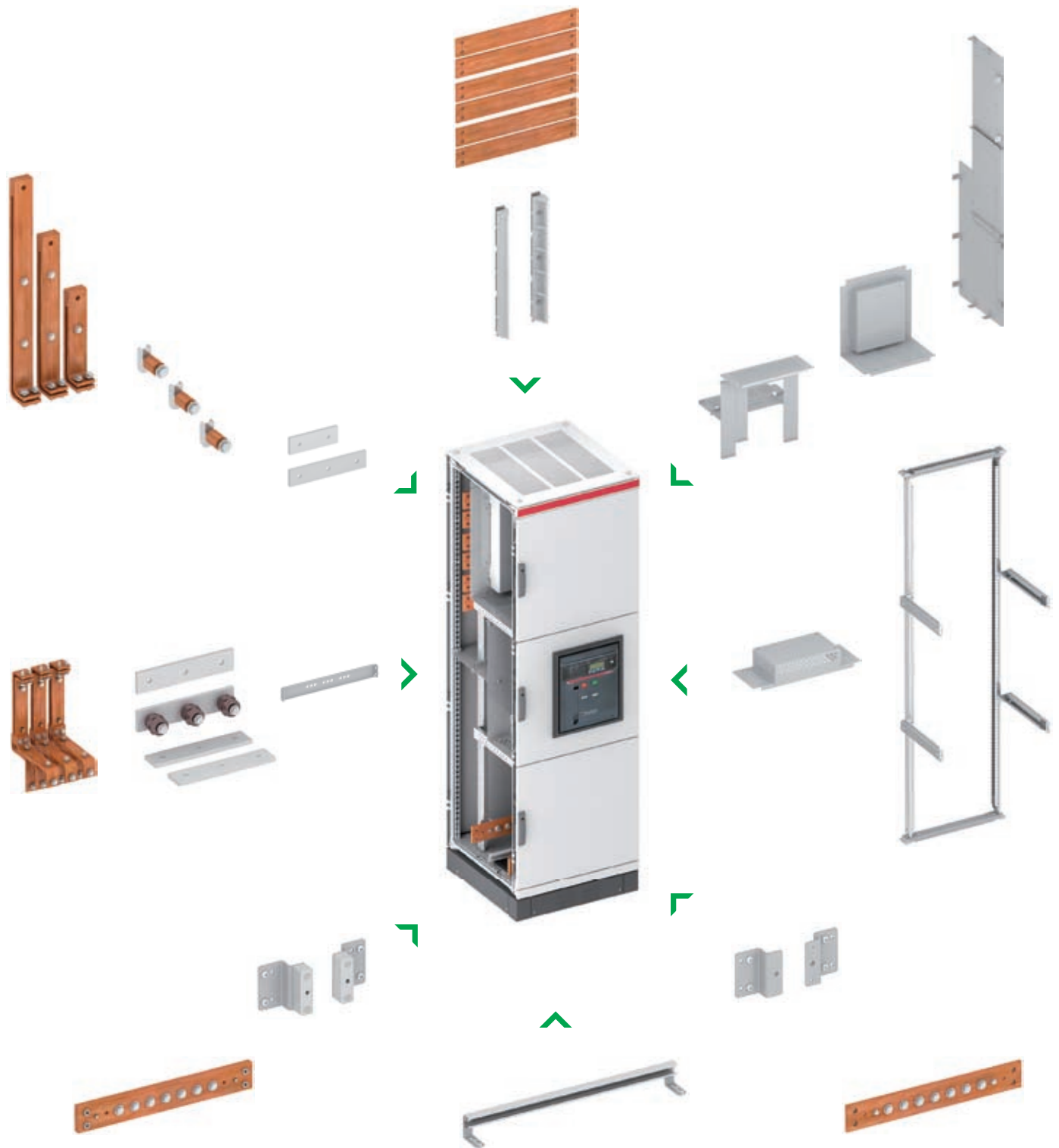
TriLine® ASSEMBLY system

Cabinet frame and cladding



TriLine® ASSEMBLY system

PowerModules



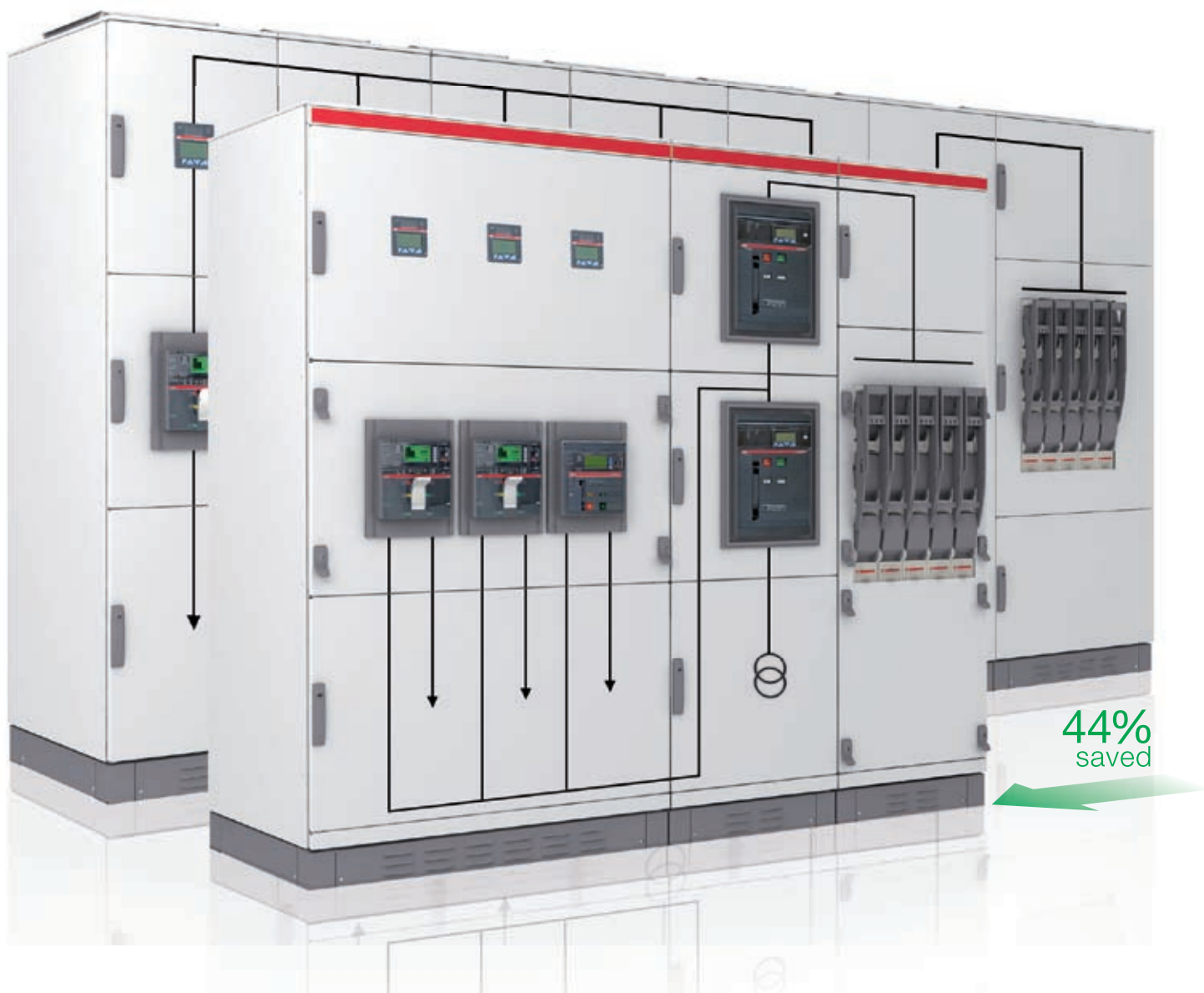
TriLine® PowerModules

High level of cost-effectiveness through optimized packing density

The new PowerModules allow a greater number of applications in an area, thanks to increased packing density. This pays off, particularly in cases where space is limited and expensive. As a result of the new, compact dimensions, you are not only saving costs in terms of the surface area. Reduced copper lengths and reduced ASSEMBLY width also offer you more in terms of cost-effectiveness.

The PowerModules enable you to install several devices adjacent to one another or on top of one another, such as the Tmax T7 moulded case circuit breaker or the Emax X1 air circuit breaker from ABB, thus allowing you to plan ASSEMBLIES in an optimum manner.

To summarise: PowerModules save you space and material costs, and you will be in safe hands – in terms of both power supply and your investments.



44%
saved

Delivery formats

The right delivery format for each and every user

1 | A switchgear section that is factory-built according to your requirements is the right solution for you? Not a problem. In this case, the pre-assembled delivery is the optimum solution.



Pre-assembled switchgear section

Many manufacturers of ASSEMBLIES have become accustomed to obtaining ASSEMBLIES from STRIEBEL & JOHN that have been pre-assembled according to their requirements. This option naturally continues in the case of the PowerModules. Our tried and tested factory assembly guarantees a high level of product quality time and time again. All your specified system parts come factory-assembled in the cabinet. You don't need to worry about suitable system accessories, such as brackets, screws or supports – we'll take care of that for you.

- No or lower levels of self-assembly
- High level of quality through tried and tested factory assembly
- Job-related delivery
- No storage

2 | You want the PowerModules as compact flatpacks? With the supplied mounting instructions, assembly will be quick and easy for you.

Flatpacks with mounting instructions

For space-saving storage of PowerModules, the flatpacks are the ideal choice for you. With a warehouse stock of the most popular PowerModules, you can respond to customers' requests flexibly each and every time. A flatpack contains all the required individual parts for assembling a PowerModule, including up to date mounting instructions. With the project-related delivery of flatpacks, the clear assignment of flatpacks to an enclosure helps you to achieve smooth assembly. This ensures shorter assembly times.

- Optimised storage through space-saving packaging
- Speedy assembly thanks to clearly structured mounting instructions
- Saves time during product selection, as the individual parts are grouped together in flatpacks
- Customer satisfaction due to short delivery times
- Project-related delivery, if desired
- Guaranteed completeness of all individual parts
- Maximum availability of products
- Short assembly times



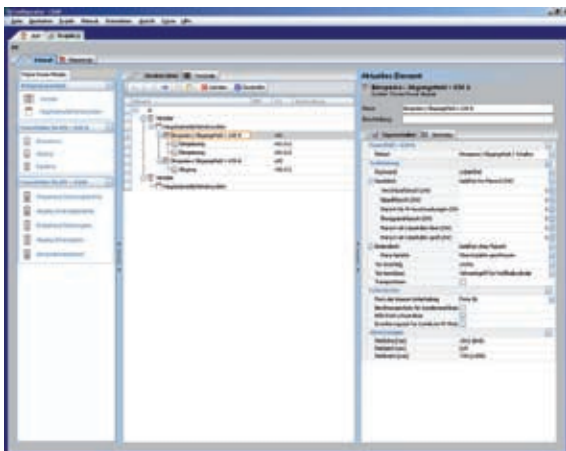
EDS PowerCon configuration software

Efficiency at the click of a button

EDS PowerCON configuration software for the TriLine® PowerModules makes light work of planning and calculating ASSEMBLIES: simplicity at the click of a button with unparalleled speed.

Easy and intuitive to operate, the configuration software offers you fast, optimum support and maximum planning reliability. Do you require a detailed view drawing of the configured ASSEMBLY for descriptive offer documentation? You'll have the perfect drawing in just a few clicks. EDS PowerCon creates both part lists and order lists for you in parallel in the background, all in a convenient, clear and accurate manner.

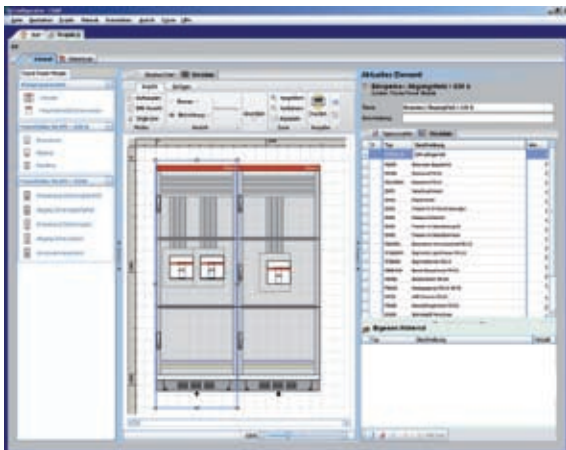




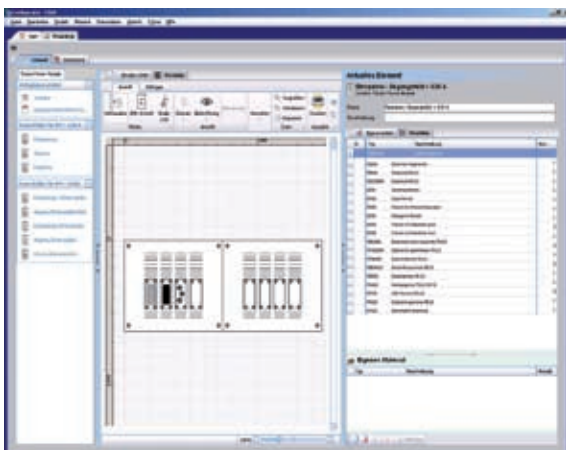
A complete front view in no time at all

Planning an ASSEMBLY in just a few minutes? Without any prior knowledge of STRIEBEL & JOHN products? Not a problem. The exemplary user friendliness of EDS PowerCON makes this possible. The philosophy underlying the new configuration software states „think in terms of functions, not products“. This significantly simplifies the planning phase and saves valuable time.

EDS PowerCON supports you at the beginning of the planning process by means of a simple, intelligent input mask: You only have to enter the key data of the distribution, the electrical and mechanical function of the section, and EDS PowerCON takes care of the rest. In the background, parallel to your entries, EDS PowerCON configures an orderable ASSEMBLY from the given characteristics.



You will obtain a graphic display of the configured ASSEMBLY in no time at all. You will be provided information about both the price of the ASSEMBLY and the lengths and weights of the copper busbars. Open interfaces guarantee continuity of the data, and further use of the compiled planning data in PDC or your own systems. The greatest benefit to you: You save considerable time in the case of subsequent detailed planning.



Technical specifications

Standards and regulations TriLine®

Type tests according to	IEC 61439-1 / -2
Degree of protection	IP 30
Conditions of installation	Indoor installation
Ambient air temperature average value 24 hours	+ 35°
Ambient air temperature maximum value	+ 40°
Ambient air temperature minimum value	- 5°
Relative humidity continuous	50% / 40°
Relative humidity short term	100% / 25°

Electrical parameters

Rated impulse withstand voltage (U_{imp})	8 kV
Overvoltage category	IV
Pollution degree	3
Protection cITBB	I
Rated frequency	50 Hz
Rated insulation voltage (U_i)	1000 V
Rated voltage (U_n)	415 V AC
Rated operational voltage (U_g)	415 V AC

Main busbar system MBB

Rated current (I_n)	1000 A	1250 A	1600 A	2000 A	2500 A
Rated peak withstand current (I_{pk})	105 kA	105 kA	165 kA	165 kA	165 kA
Rated short-time withstand current (I_{cw})	50 kA	50 kA	75 kA	75 kA	75 kA
Cabinet depth	625 mm	625 mm	625 mm	625 mm	625 mm

Distribution busbar system DBB

Rated current (I_n)	1000 A	1250 A	1600 A	2000 A
Rated peak withstand current (I_{pk})	105 kA	105 kA	165 kA	165 kA
Rated short-time withstand current (I_{cw})	50 kA	50 kA	75 kA	75 kA

Connecting busbar system CBB / Terminal busbar system TBB

Rated specifications	on request
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Constructional features

Cabinet frame	galvanized profiled sheet steel
Doors	sheet steel 2,0 mm, opening angle up to 180 degrees (standard 135 degrees)
Rear wall	sheet steel 1,5 mm, hinged
Top plate	sheet steel 1,5 mm, 4 panel wide 2 mm
Powder coating cladding	RAL 7035
Powder coating plinth	RAL 7005
Bottom plate	galvanized sheet steel 1,5 mm

System description of the section types

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Offset section

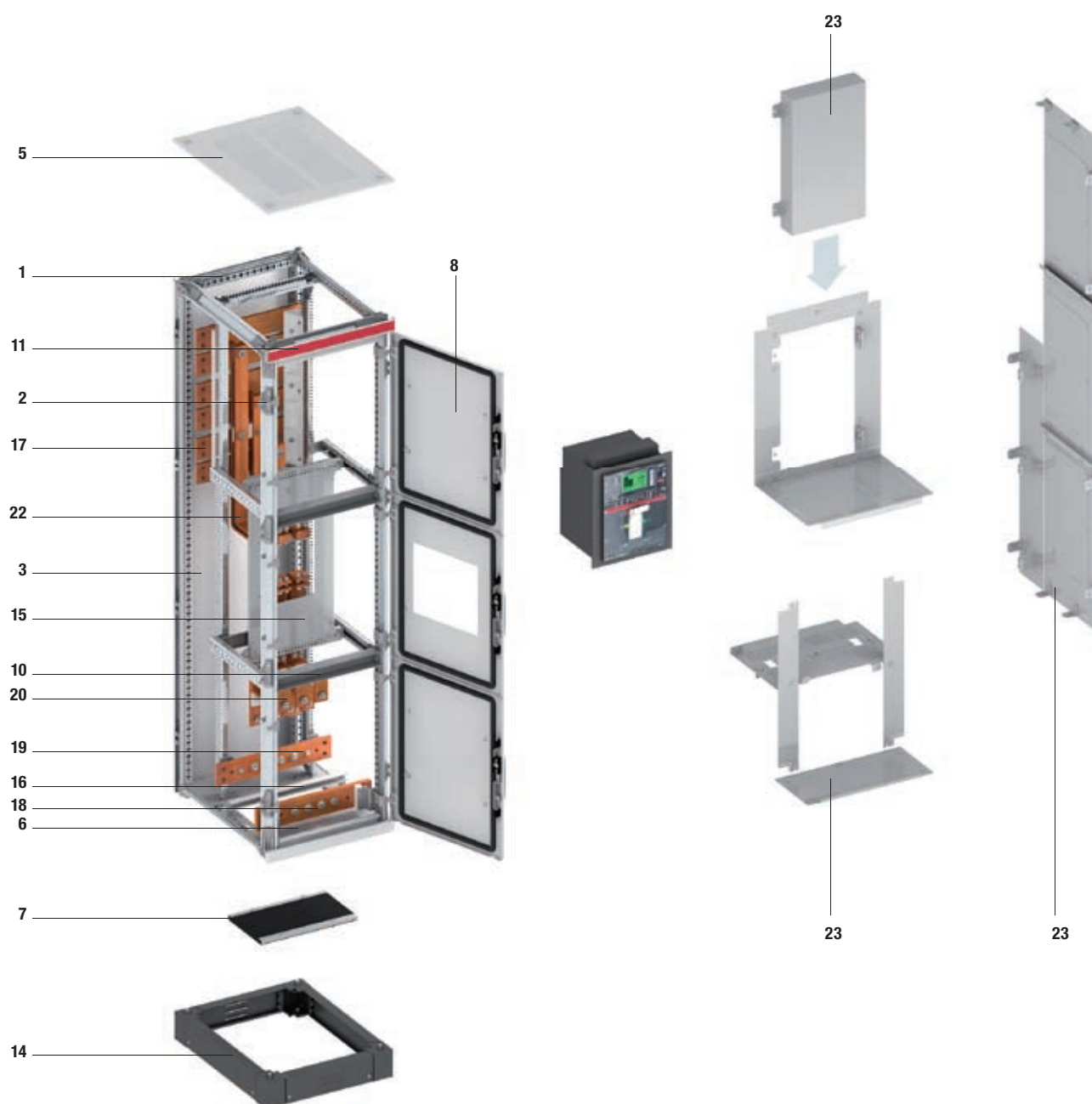
Offsetting of N / PE 0 - 42

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System description of the section types

Incoming / outgoing section for ABB T7 / X1

For one circuit breaker



Note

For circuit breaker ABB T7 / X1

I_n 1000 A up to 1600 A

Fixed or withdrawable

Part list of the example ASSEMBLY

For ABB T7, withdrawable, 3 pole, CBB / TBB 1600 A, MBB 2500 A

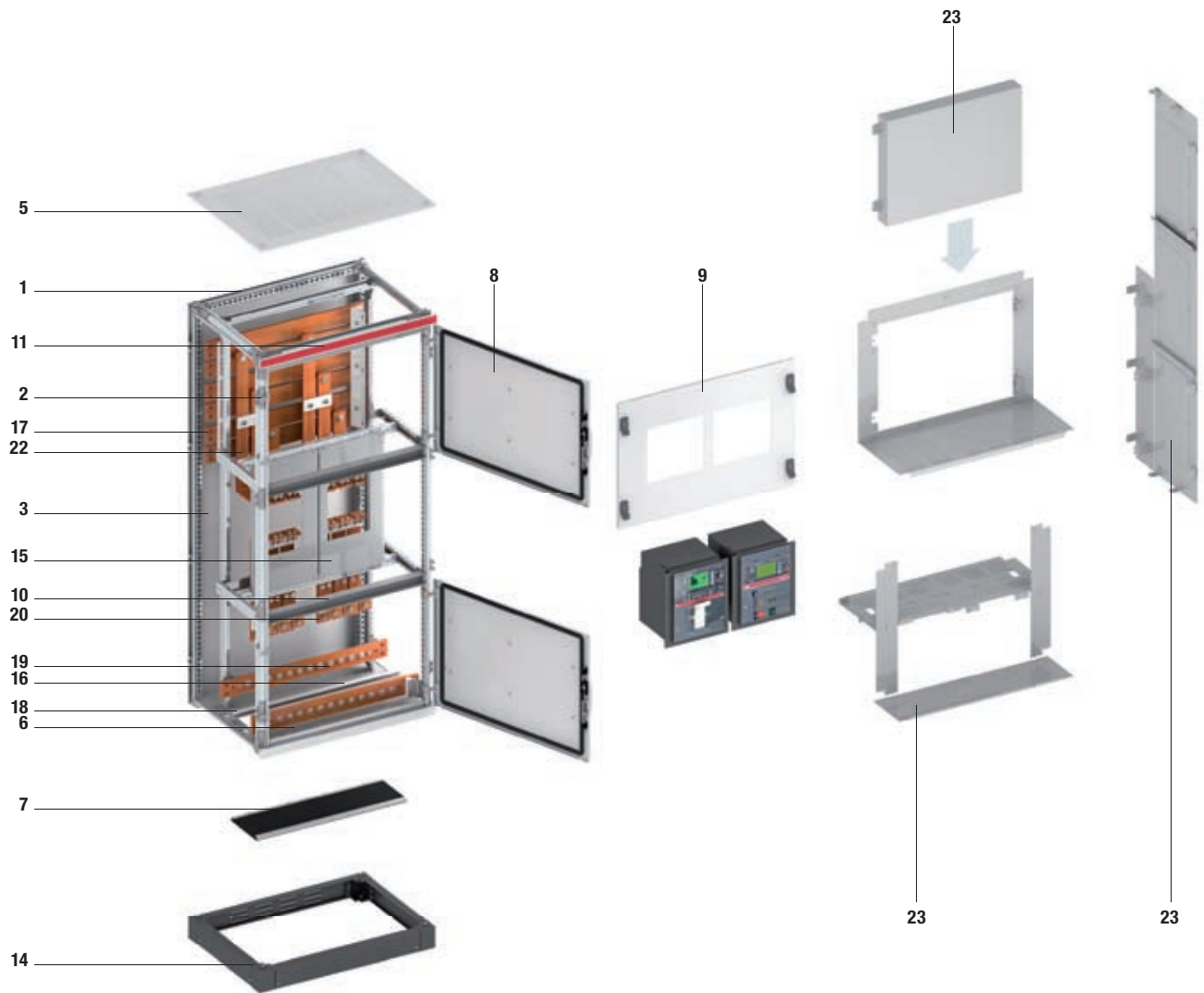
Legend	Quantity	Flatpack	Type*	Ord. No.*	See page
1	1	Cabinet frame	15/8RLG6A	20832	1-2
2	1	Hinges	RZ202A	21154	1-2
3	1	Rear wall	RR158VA	21129	1-3
5	1	Top plate	RDA15630A	20880	1-4
6	1	Bottom plate	RBB156LA	20858	1-5
7	1	Cable entry flange	RFMA15A	21401	1-6
8	2	Sectional door	RTS1560A	21184	1-8
	1	Sectional door	RTSD61560A	21275	1-9
10	2	Door separation profile	RTS15A	21164	1-11
11	1	Trim cover	RBBHA15A	21633	1-12
14	1	Plinth	RSR156LA	21155	1-15
15	1	Mounting frame	PMA1586A	20838	2-2
	1	Mounting set	PMT151A	20936	2-3
	1	Mounting plate Tmax MCCB	PMT3G31A	21347	2-4
16	1	Cable fastening rail	PKA15A	21235	2-5
17	1	MBB holder set	PHH253R2A	20138	2-6
	1	MBB copper	PHC253R15A	20198	2-7
18	1	N holder set	PNHH2A	20290	2-8
	1	N copper	PNC25HK15A	20635	2-8
19	1	PE holder set	PPHH2A	20311	2-11
	1	PE copper	PPC25HK15A	20758	2-11
20	1	TBB cross member set	PAT15A	20946	2-14
	1	TBB holder set	PAH0131A	20375	2-14
	1	TBB copper	PAC1631G3A	20395	2-15
22	1	CBB MBB-CB, holder set	PWH012RA	20429	2-19
	1	CBB MBB-CB, copper	PWC163RGSA	20515	2-21
	1	CBB MBB-CB, attachment	PWA40312A	20448	2-23
23	1	IFOS, device	PTBGCA154A	21069	2-32
	1	IFOS, M&C area	PTMS15606A	20969	2-33
	1	IFOS, segregation wall section-section	PTW86A	20958	2-34

* The types shown in the part list are mounted.
The flatpack types can also be found in the ordering part of the catalogue.

System description of the section types

Incoming / outgoing section for ABB T7 / X1

For two circuit breakers



Note

For circuit breaker T7 / X1

I_n 1000 A up to 1600 A

Fixed and withdrawable

Part list of the example ASSEMBLY

For ABB T7, withdrawable, 3 pole, CBB / TBB 1250 A, MBB 2500 A

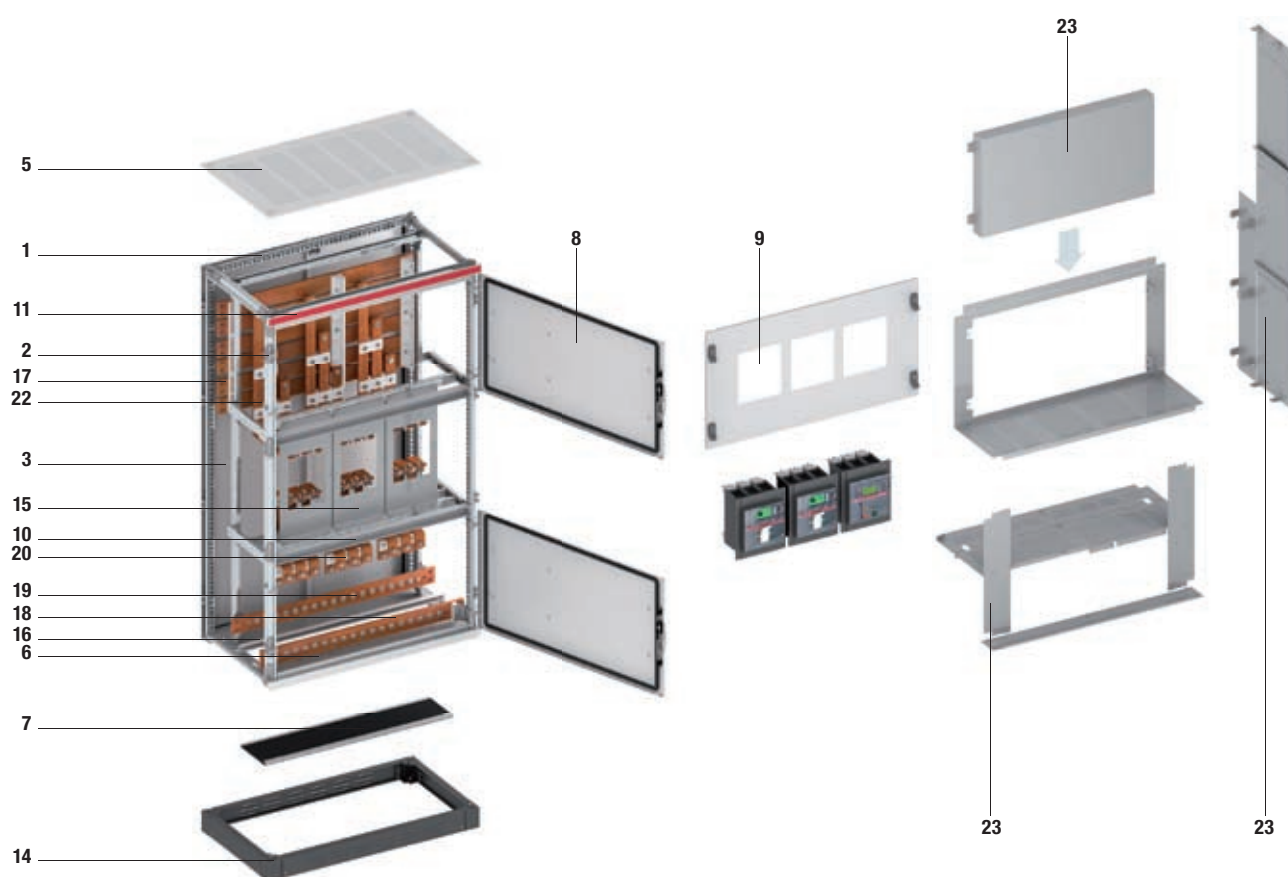
Legend	Quantity	Flatpack	Type*	Ord. No.*	See page
1	1	Cabinet frame	3/8RLG6A	20835	1-2
2	1	Hinges	RZ202A	21154	1-2
3	1	Rear wall	RR38VA	21132	1-3
5	1	Top plate	RDA3630	20903	1-4
6	1	Bottom plate	RBB36LA	20861	1-5
7	1	Cable entry flange	RFMA3A	21404	1-6
8	2	Sectional door	RTS360A	21196	1-8
9	1	Sectional cover	RTBE3360A	21298	1-10
10	2	Door separation profile	RTS3A	21167	1-11
11	1	Trim cover	RBBHA3A	21636	1-12
14	1	Plinth	RSR36LA	21158	1-15
15	1	Mounting frame	PMA386A	20841	2-2
	1	Mounting set	PMT31A	20938	2-3
	2	Mounting plate Tmax MCCB	PMT3G31A	21347	2-4
16	1	Cable fastening rail	PKA3A	21238	2-5
17	1	MBB holder set	PHH253R2A	20138	2-6
	1	MBB copper	PHC253R3A	20201	2-7
18	1	N holder set	PNHH2A	20290	2-8
	1	N copper	PNC25HK3A	20638	2-8
19	1	PE holder set	PPHH2A	20311	2-11
	1	PE copper	PPC25HK3A	20765	2-11
20	1	TBB cross member set	PAT3A	20949	2-14
	2	TBB holder set	PAH0231A	20377	2-14
	2	TBB copper	PAC1231G3A	20393	2-15
22	2	CBB MBB-CB, holder set	PWH022RA	20433	2-19
	2	CBB MBB-CB, copper	PWC123RGSA	20508	2-21
	2	CBB MBB-CB, attachment	PWA40311A	20447	2-23
23	1	IFOS, device	PTBGCB32A	21064	2-30
	1	IFOS, M&C area	PTMS3606A	20972	2-33
	1	IFOS, segregation wall section-section	PTW86A	20958	2-34

* The types shown in the part list are mounted.
The flatpack types can also be found in the ordering part of the catalogue.

System description of the section types

Incoming / outgoing section for ABB T7 / X1

For three circuit breakers



Note

For circuit breaker T7 / X1

I_n 1000 A up to 1600 A

Fixed

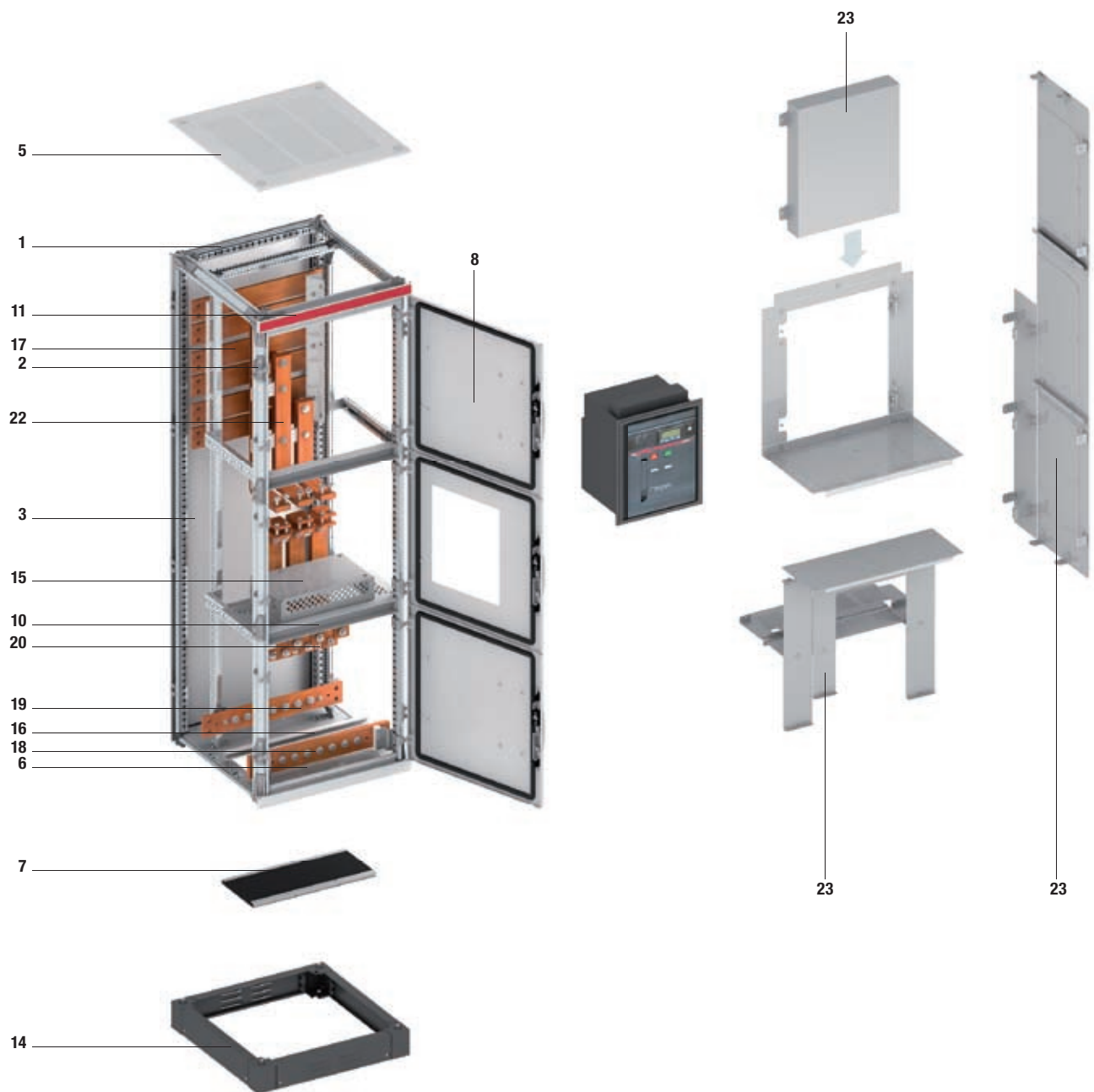
Part list of the example ASSEMBLY

For ABB T7, fixed, 3 pole, CBB / TBB 1000 A, MBB 2500 A

Legend	Quantity	Flatpack	Type*	Ord. No.*	See page
1	1	Cabinet frame	4/8RLG6A	20837	1-2
2	1	Hinges	RZ202A	21154	1-2
3	1	Rear wall, left	RR48VLA	21135	1-3
	1	Rear wall, right	RR48VRA	21136	1-3
5	1	Top plate	RDA4630A	20885	1-4
6	1	Bottom plate	RBB46LA	20863	1-5
7	1	Cable entry flange	RFMA4A	21406	1-6
8	2	Sectional door	RTS460A	21204	1-8
9	1	Sectional cover	RTBF1460A	21299	1-10
10	2	Door separation profile	RTS4A	21169	1-11
11	1	Trim cover	RBBHB4A	21639	1-12
14	1	Plinth	RSR46LA	21160	1-15
15	1	Mounting frame	PMA486A	20843	2-2
	1	Mounting set	PMT41A	20939	2-3
	3	Mounting plate Tmax MCCB	PMT3G11A	21345	2-4
16	1	Cable fastening rail	PKA4A	21240	2-5
17	1	MBB, holder set	PHH253R3A	20148	2-6
	1	MBB, copper	PHC253R4A	20203	2-7
18	1	N holder set	PNHH2A	20290	2-8
	1	N copper	PNC25HK4A	20640	2-8
19	1	PE holder set	PPHH2A	20311	2-11
	1	PE copper	PPC25HK4A	20767	2-11
20	1	TBB cross member set	PAT4A	20951	2-14
	3	TBB holder set	PAH0131A	20375	2-14
	3	TBB copper	PAC1031G1A	20390	2-15
22	3	CBB MBB-CB, holder set	PWH013RA	20430	2-19
	3	CBB MBB-CB, copper	PWC103RGBA	20499	2-21
	3	CBB MBB-CB, attachment	PWA40311A	20447	2-23
23	1	IFOS, device	PTBGAC42A	21066	2-30
	1	IFOS, M&C area	PTMS4606A	20974	2-33
	1	IFOS, segregation wall section-section	PTW86A	20958	2-34

* The types shown in the part list are mounted.
The flatpack types can also be found in the ordering part of the catalogue.

System description of the section types
Incoming / outgoing section for ABB E2
For one circuit breaker



Note

For circuit breaker E2

I_n 2000 A

Fixed and withdrawable

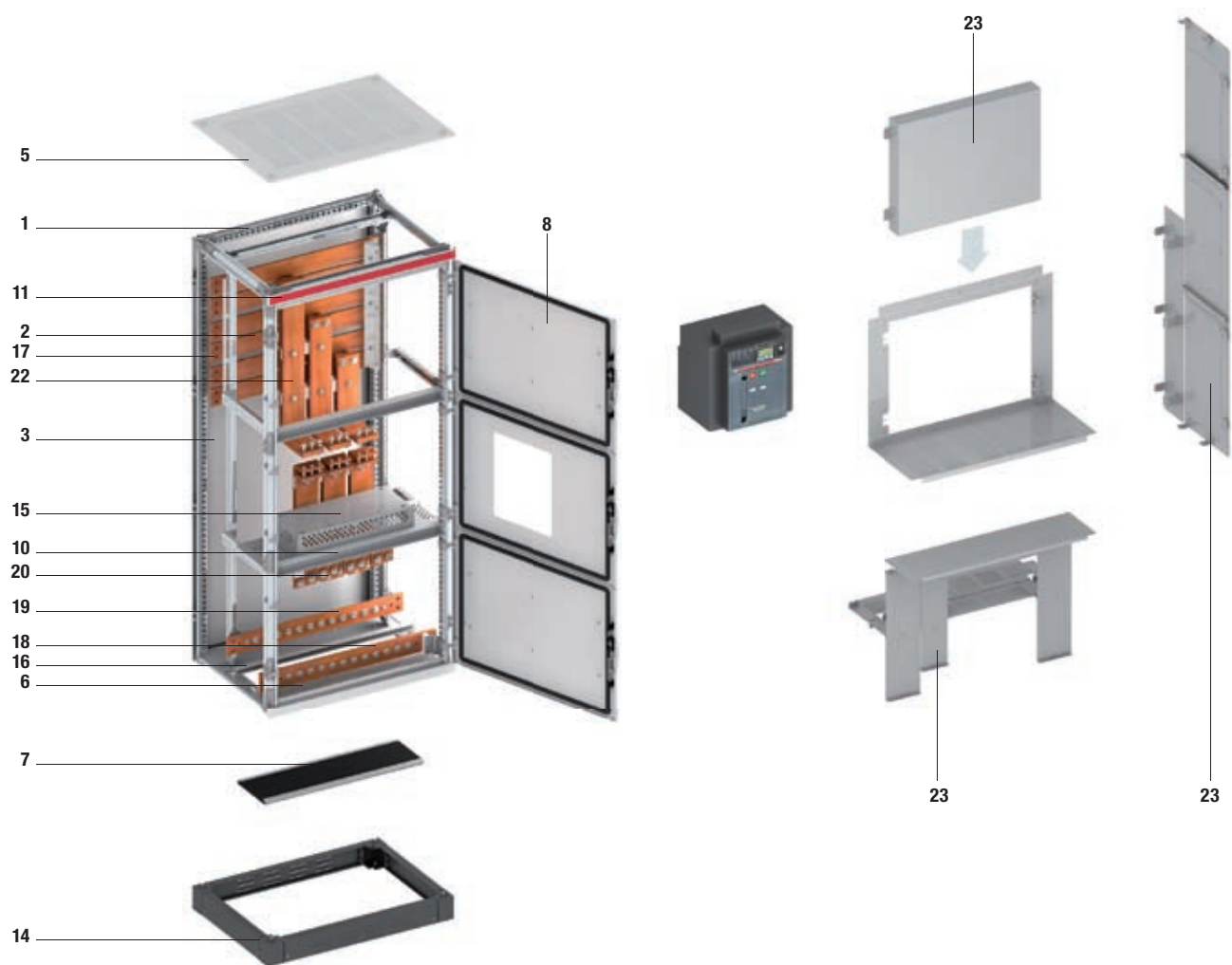
Part list of the example ASSEMBLY

For ABB E2, fixed, 3 pole, CBB / TBB 2000 A, MBB 2500 A

Legend	Quantity	Flatpack	Type*	Ord. No.*	See page
1	1	Cabinet frame	2/8RLG6A	20833	1-2
2	1	Hinges	RZ202A	21154	1-2
3	1	Rear wall	RR28VA	21130	1-3
5	1	Top plate	RDA2630A	20881	1-4
6	1	Bottom plate	RBB26LA	20859	1-5
7	1	Cable entry flange	RFMA2A	21402	1-6
8	2	Sectional door	RTS260A	21188	1-8
	1	Sectional door	RTSG7260A	21277	1-9
10	2	Door separation profile	RTS2A	21165	1-11
11	1	Trim cover	RBBHA2A	21634	1-12
14	1	Plinth	RSR26LA	21156	1-15
15	1	Mounting frame	PMA286A	20839	2-2
	1	Mounting base	PME121A	21321	2-4
16	1	Cable fastening rail	PKA2A	21236	2-5
17	1	MBB holder set	PHH253R2A	20138	2-6
	1	MBB copper	PHC253R2A	20199	2-7
18	1	N holder set	PNHH2A	20290	2-8
	1	N copper	PNC25HK2A	20636	2-8
19	1	PE holder set	PPHH2A	20311	2-11
	1	PE copper	PPC25HK2A	20759	2-11
20	1	TBB cross member set	PAT2A	20947	2-14
	1	TBB holder set	PAH0341A	20378	2-14
	1	TBB copper	PAC203111A	20396	2-15
22	1	CBB MBB-CB, holder set	PWH033RA	20438	2-20
	1	CBB MBB-CB, copper	PWC203RIBA	20518	2-22
	1	CBB MBB-CB, attachment	PWA40312A	20448	2-23
23	1	IFOS, device	PTBIAK24A	21072	2-30
	1	IFOS, M&C area	PTMS2606A	20970	2-33
	1	IFOS, segregation wall section-section	PTW86A	20958	2-34

* The types shown in the part list are mounted.
The flatpack types can also be found in the ordering part of the catalogue.

System description of the section types
Incoming / outgoing section for ABB E3
For one circuit breaker



Note

For circuit breaker E3

I_n 2500 A

Fixed and withdrawable

Part list of the example ASSEMBLY

For ABB E3, fixed, 3 pole, CBB / TBB 2500 A, MBB 2500 A

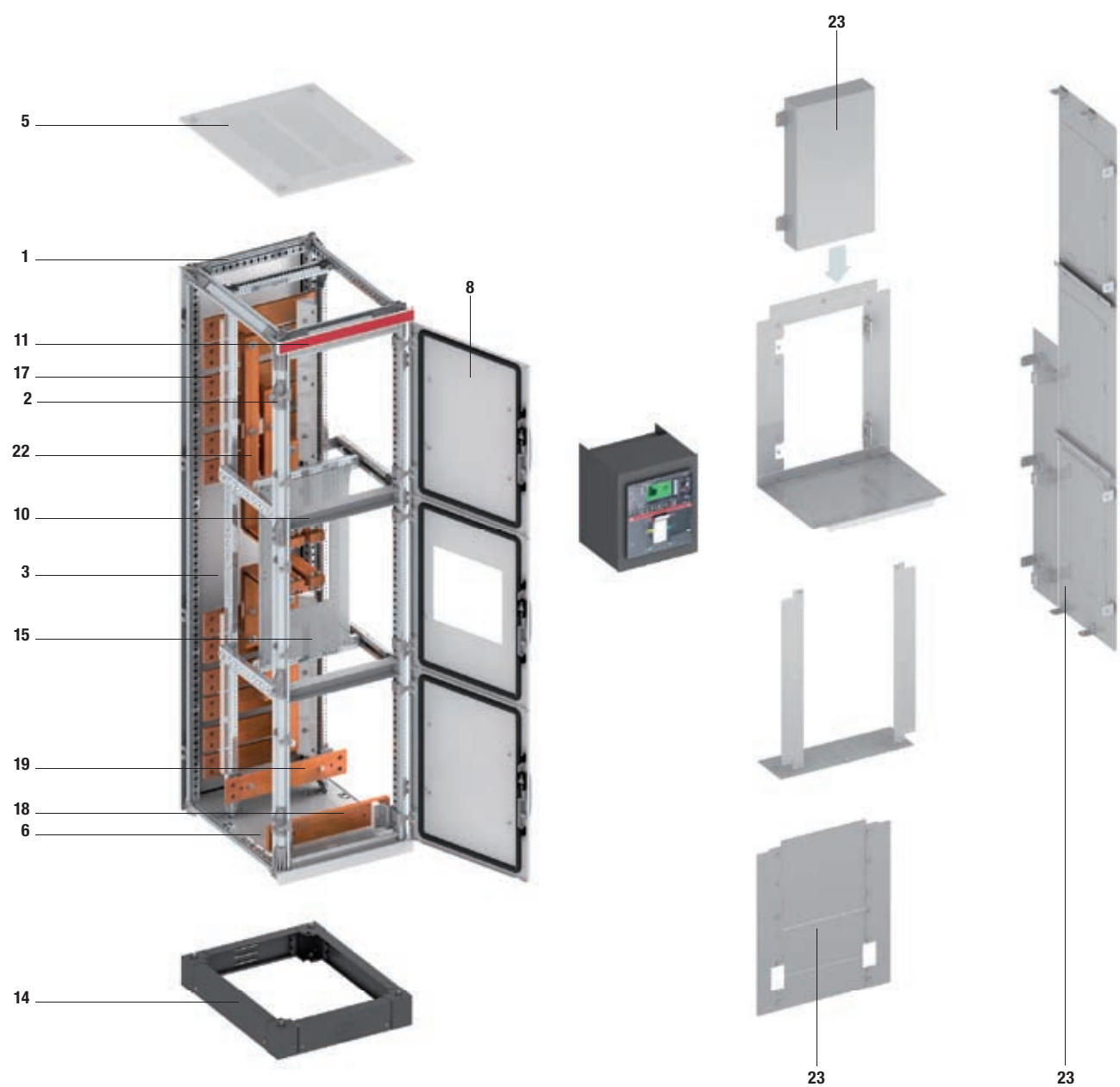
Legend	Quantity	Flatpack	Type*	Ord. No.*	See page
1	1	Cabinet frame	3/8RLG6A	20835	1-2
2	1	Hinges	RZ202A	21154	1-2
3	1	Rear wall	RR38VA	21132	1-3
5	1	Top plate	RDA3630A	20883	1-4
6	1	Bottom plate	RBB36LA	20861	1-5
7	1	Cable entry flange	RFMA3A	21404	1-6
8	2	Sectional door	RTS360A	21196	1-8
	1	Sectional door	RTSH7360A	21281	1-9
10	2	Door separation profile	RTS3A	21167	1-11
11	1	Trim cover	RBBHA3A	21636	1-12
14	1	Plinth	RSR36LA	21158	1-15
15	1	Mounting frame	PMA386A	20841	2-2
	1	Mounting base	PME131A	21327	2-4
16	1	Cable fastening rail	PKA3A	21238	2-5
17	1	MBB holder set	PHH253R2A	20138	2-6
	1	MBB copper	PHC253R3A	20201	2-7
18	1	N holder set	PNHH2A	20290	2-8
	1	N copper	PNC25HK3A	20638	2-8
19	1	PE holder set	PPHH2A	20311	2-11
	1	PE copper	PPC25HK3A	20765	2-11
20	1	TBB cross member set	PAT3A	20949	2-14
	1	TBB holder set	PAH0441A	20379	2-14
	1	TBB copper	PAC2531J1A	20398	2-15
22	1	CBB MBB-CB, holder set	PWH043RA	20440	2-20
	1	CBB MBB-CB, copper	PWC253RJBA	20522	2-22
	1	CBB MBB-CB, attachment	PWA40612A	20450	2-23
23	1	IFOS, device	PTBJAK34A	21075	2-30
	1	IFOS, M&C area	PTMS3606A	20972	2-33
	1	IFOS, segregation wall section-section	PTW86A	20958	2-34

* The types shown in the part list are mounted.
The flatpack types can also be found in the ordering part of the catalogue.

System description of the section types

Coupler section for ABB T7 / X1

For one circuit breaker



Note

For circuit breaker T7 / X1

I_n 1000 A up to 1600 A

Fixed and withdrawable

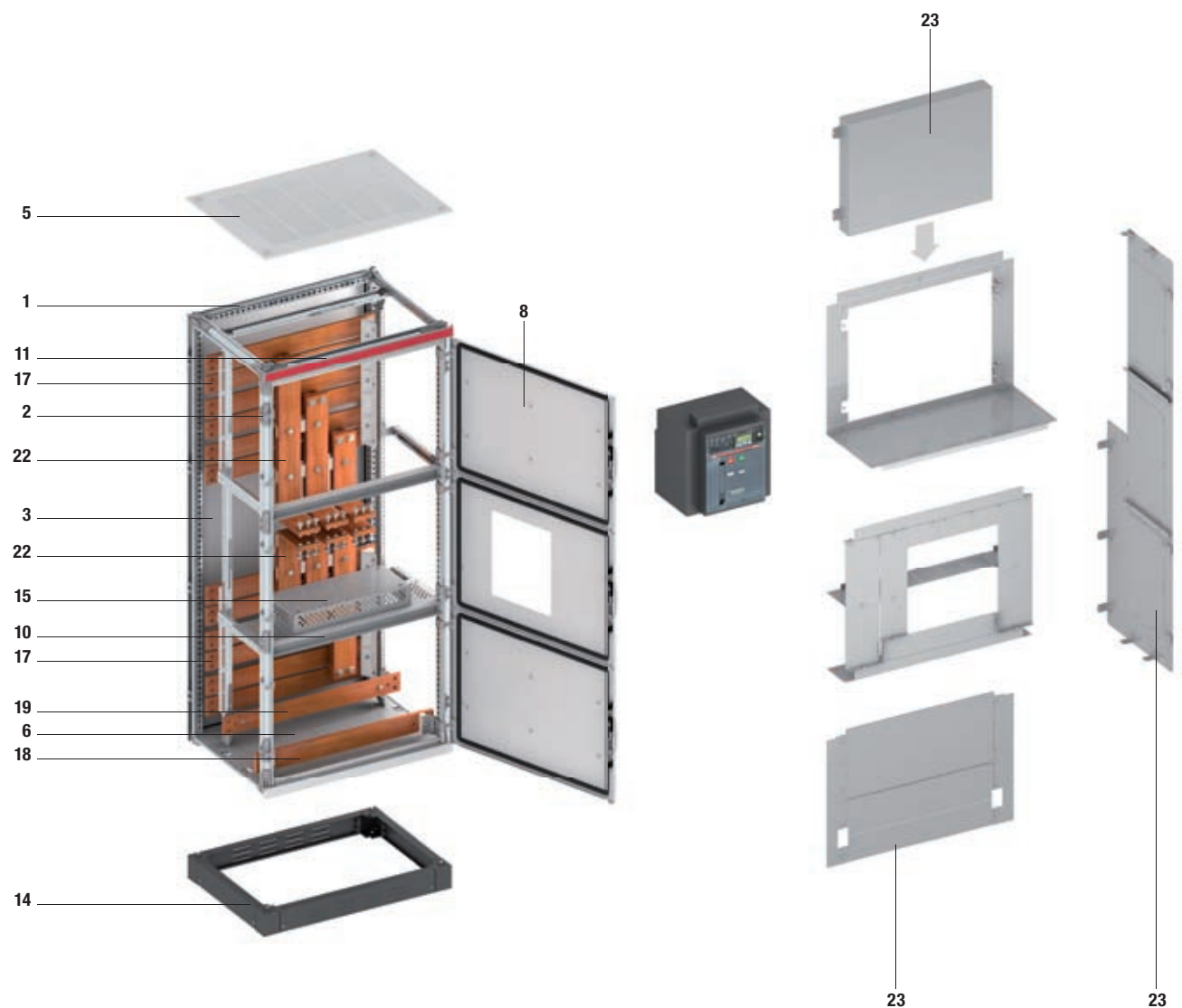
Part list of the example ASSEMBLY

For ABB T7, withdrawable, 3 pole, CBB / TBB 1600 A, MBB 1600 A

Legend	Quantity	Flatpack	Type*	Ord. No.*	See page
1	1	Cabinet frame	15/8RLG6A	20832	1-2
2	1	Hinges	RZ202A	21154	1-2
3	1	Rear wall	RR158VA	21129	1-3
5	1	Top plate	RDA15630	20900	1-4
6	1	Bottom plate	RBA156LA	20852	1-5
8	2	Sectional door	RTS1560A	21184	1-8
	1	Sectional door	RTSD61560A	21275	1-9
10	2	Door separation profile	RTS15A	21164	1-11
11	1	Trim cover	RBBHA15A	21633	1-12
14	1	Plinth	RSR156LA	21155	1-15
15	1	Mounting frame	PMA1586A	20838	2-2
	1	Mounting set	PMT151A	20936	2-3
	1	Mounting plate Tmax MCCB	PMT3G31A	21347	2-4
17	2	MBB holder set	PHH163R2A	20134	2-6
	2	MBB copper	PHC163R15A	20174	2-7
18	1	N holder set	PNHH2A	20290	2-8
	1	N copper	PNC16HD15A	20654	2-9
19	1	PE holder set	PPHH2A	20311	2-11
	1	PE copper	PPC16HD15A	20780	2-12
22	2	CBB MBB-CB, holder set	PWH012RA	20429	2-19
	2	CBB MBB-CB, copper	PWC163RGSA	20515	2-21
	2	CBB MBB-CB, attachment	PWA40312A	20448	2-23
23	1	IFOS, device	PTBGCH154A	21104	2-29
	1	IFOS, M&C area	PTMS15606A	20969	2-30
	1	IFOS, cable connection area	PTKA158A	21050	2-33
	1	IFOS, segregation wall section-section	PTW86A	20958	2-34

* The types shown in the part list are mounted.
The flatpack types can also be found in the ordering part of the catalogue.

System description of the section types
Coupler section for ABB E2 / E3
For one circuit breaker



Note

For circuit breaker E2, I_n 2000 A, 2 panel wide
Fixed and withdrawable

For circuit breaker E3, I_n 2500 A, 3 panel wide
Fixed and withdrawable

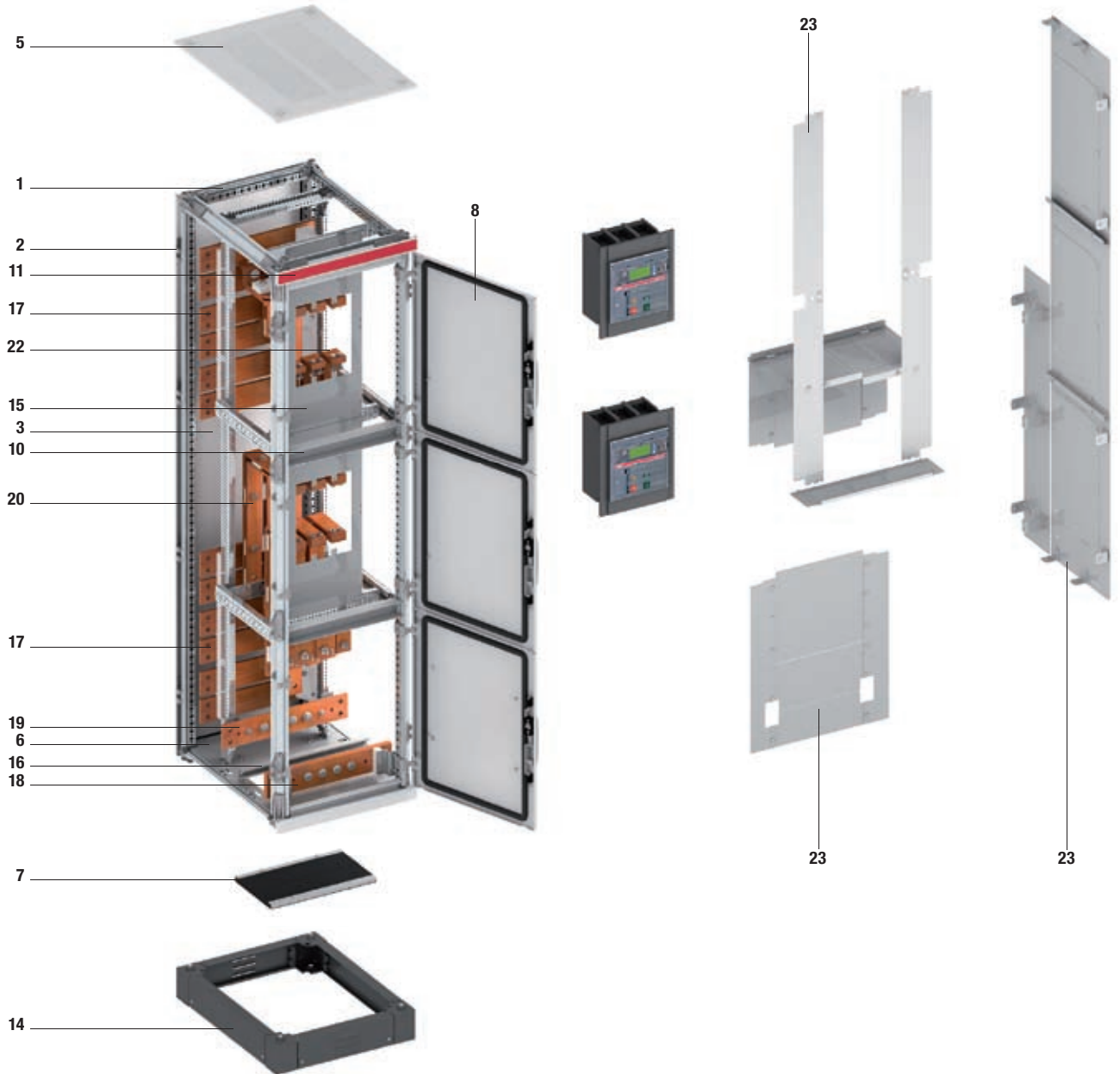
Part list of the example ASSEMBLY

For ABB E3, fixed, 3 pole, CBB / TBB 2500 A, MBB 2500 A

Legend	Quantity	Flatpack	Type*	Ord. No.*	See page
1	1	Cabinet frame	3/8RLG6A	20835	1-2
2	1	Hinges	RZ202A	21154	1-2
3	1	Rear wall	RR38VA	21132	1-3
5	1	Top plate	RDA3630A	20883	1-4
6	1	Bottom plate	RBA36LA	20855	1-5
8	2	Sectional door	RTS360A	21196	1-8
	1	Sectional door	RTSH7360A	21281	1-9
10	2	Door separation profile	RTS3A	21167	1-11
11	1	Trim cover	RBBHA3A	21636	1-12
14	1	Plinth	RSR36LA	21158	1-15
15	1	Mounting frame	PMA386A	20841	2-2
	1	Mounting base	PME131A	21327	2-4
17	2	MBB holder set	PHH253R2A	20138	2-6
	2	MBB copper	PHC253R3A	20201	2-7
18	1	N holder set	PNHH2A	20290	2-8
	1	N copper	PNC25HD3A	20669	2-9
19	1	PE holder set	PPHH2A	20311	2-11
	1	PE copper	PPC25HD3A	20801	2-12
22	2	CBB MBB-CB, holder set	PWH043RA	20440	2-20
	2	CBB MBB-CB, copper	PWC253RJBA	20522	2-22
	2	CBB MBB-CB, attachment	PWA40612A	20450	2-23
23	1	IFOS, device	PTBJAQ34A	21109	2-29
	1	IFOS, M&C area	PTMS3606A	20972	2-30
	1	IFOS, cable connection area	PTKA38A	21053	2-33
	1	IFOS, segregation wall section-section	PTW86A	20958	2-34

* The types shown in the part list are mounted.
The flatpack types can also be found in the ordering part of the catalogue.

For two circuit breakers



Note

For circuit breaker T7 / X1

I_n 1000 A to 1600 A, connecting busbar systems (CBB) must have identical current rating configurations

Fixed and withdrawable, both devices must have the same configuration

Part list of the example ASSEMBLY

For ABB T7, fixed, 3 pole, CBB / TBB 1600 A, MBB 1600 A

Legend	Quantity	Flatpack	Type*	Ord. No.*	See page
1	1	Cabinet frame	15/8RLG6A	20832	1-2
2	1	Hinges	RZ202A	21154	1-2
3	1	Rear wall	RR158VA	21129	1-3
5	1	Top plate	RDA15630A	20880	1-4
6	1	Bottom plate	RBB156LA	20858	1-5
7	1	Cable entry flange	RFMA15A	21401	1-6
8	1	Sectional door	RTS1560A	21184	1-8
	2	Sectional door	RTSD11560A	21273	1-9
10	2	Door separation profile	RTS15A	21164	1-11
11	1	Trim cover	RBBHA15A	21633	1-12
14	1	Plinth	RSR156LA	21155	1-15
15	1	Mounting frame	PMA1586A	20838	2-2
	1	Mounting set	PMT152A	20940	2-3
	1	Mounting plate Tmax MCCB	PMT3G13A	21346	2-4
	1	Mounting plate Tmax MCCB	PMT3G11A	21345	2-4
16	1	Cable fastening rail	PKA15A	21235	2-5
17	2	MBB holder set	PHH163R2A	20134	2-6
	2	MBB copper	PHC163R15A	20174	2-7
18	1	N holder set	PNHH2A	20290	2-8
	1	N copper	PNC16HK15A	20623	2-8
19	1	PE holder set	PPHH2A	20311	2-11
	1	PE copper	PPC16HK15A	20746	2-11
20	1	TBB cross member set	PAT15A	20946	2-14
	1	TBB holder set	PAH0141A	20376	2-14
	1	TBB copper	PAC1631G1A	20394	2-15
22	1	CBB MBB-CB, holder set	PWH012RA	20429	2-19
	1	CBB MBB-CB, holder set	PWH014RA	20431	2-19
	1	CBB MBB-CB, copper	PWC163RGDA	20514	2-21
	1	CBB MBB-CB, copper	PWC163RGCA	20513	2-21
	2	CBB MBB-CB, attachment	PWA40312A	20448	2-23
	1	CBB CB-CB, holder set	PWH011RA	20428	2-24
	1	CBB CB-CB, copper	PUC163G1A	20466	2-25
23	1	IFOS, device	PTBGAG154A	21101	2-31
	1	IFOS, cable connection area	PTKA158A	21050	2-34
	1	IFOS, segregation wall section-section	PTW86A	20958	2-34

* The types shown in the part list are mounted.
The flatpack types can also be found in the ordering part of the catalogue.

For two circuit breakers



For circuit breaker E2

Fixed

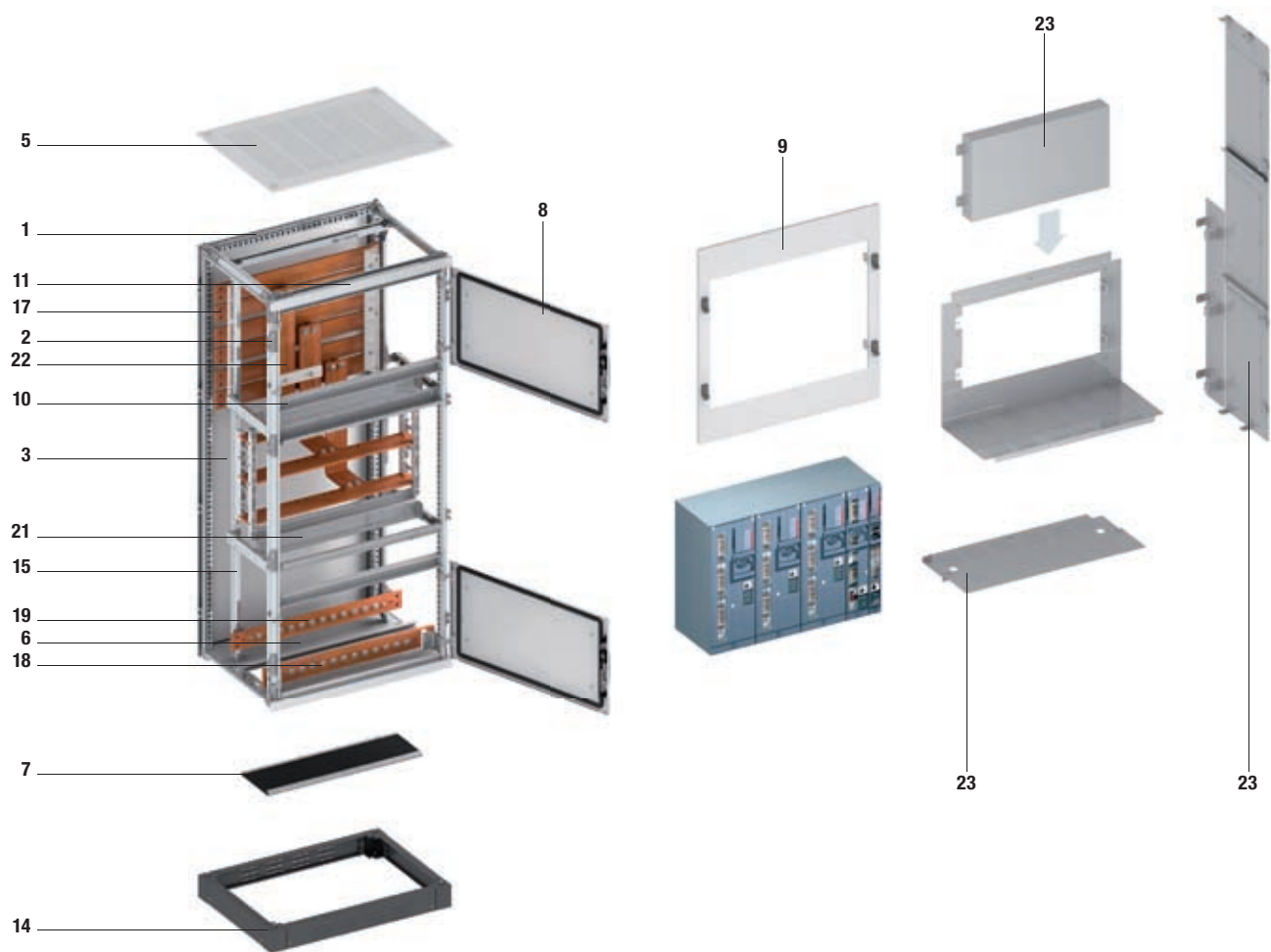
Part list of the example ASSEMBLY

For ABB E2, fixed, 3 pole, CBB / TBB 2000 A, MBB 2000 A

Legend	Quantity	Flatpack	Type*	Ord. No.*	See page
1	1	Cabinet frame	2/8RLG6A	20833	1-2
2	1	Hinges	RZ202A	21154	1-2
3	1	Rear wall	RR28VA	21130	1-3
5	1	Top plate	RDA2630A	20881	1-4
6	1	Bottom plate	RBB26LA	20859	1-5
7	1	Cable entry flange	RFMA2A	21402	1-6
8	1	Sectional door	RTS260A	21188	1-8
	2	Sectional door	RTSG7260A	21277	1-9
10	2	Door separation profile	RTS2A	21165	1-11
11	1	Trim cover	RBBHA2A	21634	1-12
14	1	Plinth	RSR26LA	21156	1-15
15	1	Mounting frame	PMA286A	20839	2-2
	1	Mounting base	PME121A	21321	2-4
	1	Mounting base	PME124A	21322	2-4
16	1	Cable fastening rail	PKA2A	21236	2-5
17	2	MBB holder set	PHH203R2A	20136	2-6
	2	MBB copper	PHC203R2A	20187	2-7
18	1	N holder set	PNHH2A	20290	2-8
	1	N copper	PNC20HK2A	20630	2-8
19	1	PE holder set	PPHH2A	20311	2-11
	1	PE copper	PPC20HK2A	20753	2-11
20	1	TBB cross member set	PAT2A	20947	2-14
	1	TBB holder set	PAH0341A	20378	2-14
	1	TBB copper	PAC203111A	20396	2-15
22	1	CBB MBB-CB, holder set	PWH033RA	20438	2-20
	1	CBB MBB-CB, holder set	PWH051RA	20441	2-20
	1	CBB MBB-CB, copper	PWC203RIDA	20520	2-22
	1	CBB MBB-CB, copper	PWC203RICA	20519	2-22
	2	CBB MBB-CB, attachment	PWA40312A	20448	2-23
	1	CBB CB-CB, holder set	PWH031RA	20436	2-24
	1	CBB CB-CB, copper	PUC20311A	20468	2-25
23	1	IFOS, device	PTBIAM24A	21105	2-31
	1	IFOS, cable connection area	PTKA28A	21051	2-34
	1	IFOS, segregation wall section-section	PTW86A	20958	2-34

* The types shown in the part list are mounted.
The flatpack types can also be found in the ordering part of the catalogue.

System description of the section types
Outgoing section for switch disconnecter fuses ABB XR
For vertical devices



Note

Maximum installation width for disconnectors size 00 up to size 3:
Panel width 2 = 500 mm
Panel width 3 = 750 mm

Part list of the example ASSEMBLY

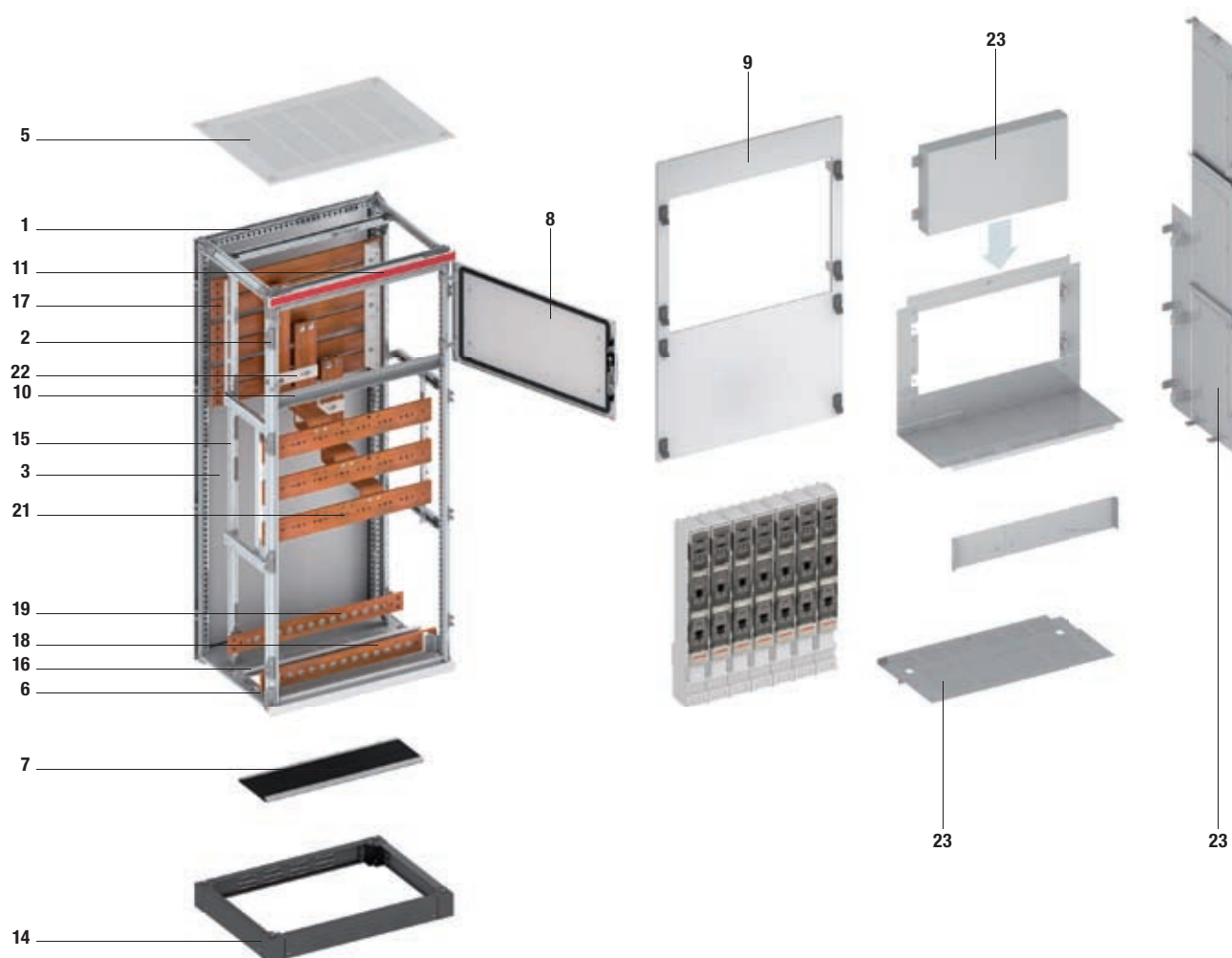
For ABB XR, 3 pole, 185 mm centre spacing

DBB 2000 A, MBB 2500 A

Legend	Quantity	Flatpack	Type*	Ord. No.*	See page
1	1	Cabinet frame	3/8RLG6A	20835	1-2
2	1	Hinges	RZ202A	21154	1-2
3	1	Rear wall	RR38VA	21132	1-3
5	1	Top plate	RDA3630A	20883	1-4
6	1	Bottom plate	RBB36LA	20861	1-5
7	1	Cable entry flange	RFMA3A	21404	1-6
8	2	Sectional door	RTS345A	21195	1-8
9	1	Sectional cover	RTBMD390A	21304	1-11
10	2	Door separation profile	RTS3A	21167	1-11
11	1	Trim cover	RBBHA3A	21636	1-12
14	1	Plinth	RSR36LA	21158	1-15
15	1	Mounting frame	PMA386A	20841	2-2
16	1	Cable fastening rail	PKA3A	21238	2-5
17	1	MBB holder set	PHH253R2A	20138	2-6
	1	MBB copper	PHC253R3A	20201	2-7
18	1	N holder set	PNHH2A	20290	2-8
	1	N copper	PNC25HK3A	20638	2-8
19	1	PE holder set	PPHH2A	20311	2-11
	1	PE copper	PPC25HK3A	20765	2-11
21	1	DBB holder set	PVH20HM3A	20321	2-16
	1	DBB copper	PVC203HL3A	20367	2-17
22	1	CBB MBB-DBB, holder set	PWHH062A	20526	2-26
	1	CBB MBB-DBB, copper	PWC203HM1A	20548	2-26
	1	CBB MBB-DBB, attachment	PWA40611A	20449	2-26
23	1	IFOS, device	PTBMA364A	21356	2-32
	1	IFOS, M&C area	PTMS3456A	20967	2-33
	1	IFOS, segregation wall section-section	PTW86A	20958	2-34

* The types shown in the part list are mounted.
The flatpack types can also be found in the ordering part of the catalogue.

For vertical devices



Note

Maximum installation width for disconnectors size 00 up to size 3:

Panel width 2 = 500 mm

Panel width 3 = 750 mm

Part list of the example ASSEMBLY

For ABB InLine, 3 pole, 185 mm centre spacing

DBB 2000 A, MBB 2500 A

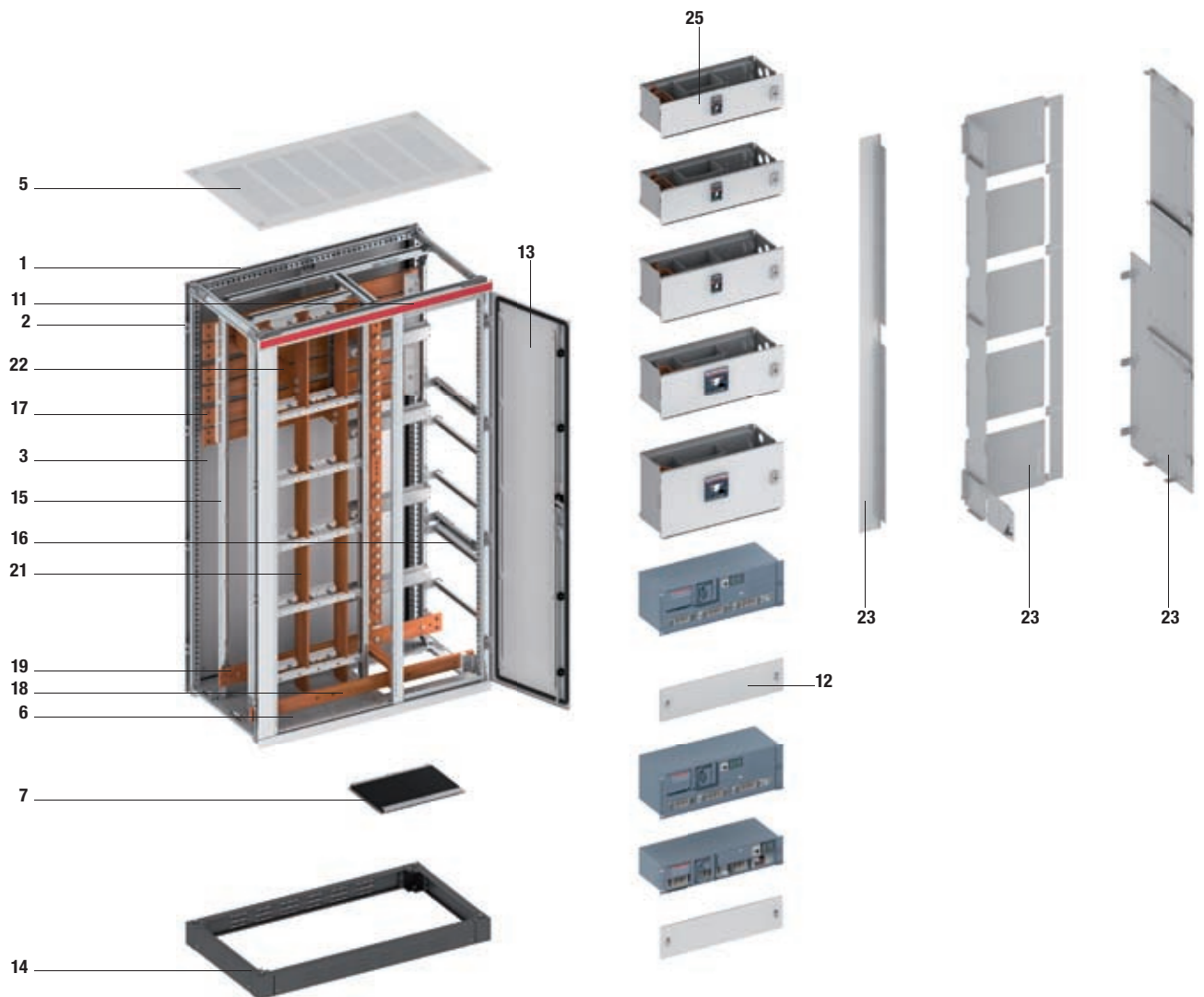
Legend	Quantity	Flatpack	Type*	Ord. No.*	See page
1	1	Cabinet frame	3/8RLG6A	20835	1-2
2	1	Hinges	RZ202A	21154	1-2
3	1	Rear wall	RR38VA	21132	1-3
5	1	Top plate	RDA3630A	20883	1-4
6	1	Bottom plate	RBB36LA	20861	1-5
7	1	Cable entry flange	RFMA3A	21404	1-6
8	1	Sectional door	RTS345A	21195	1-8
9	1	Sectional cover	RTBND313A	21308	1-11
10	1	Door separation profile	RTS3A	21167	1-11
11	1	Trim cover	RBBHA3A	21636	1-12
14	1	Plinth	RSR36LA	21158	1-15
15	1	Mounting frame	PMA386A	20841	2-2
16	1	Cable fastening rail	PKA3A	21238	2-5
17	1	MBB holder set	PHH253R2A	20138	2-6
	1	MBB copper	PHC253R3A	20201	2-7
18	1	N holder set	PNHH2A	20290	2-8
	1	N copper	PNC25HK3A	20638	2-8
19	1	PE holder set	PPHH2A	20311	2-11
	1	PE copper	PPC25HK3A	20765	2-11
21	1	DBB holder set	PVH20HNA	20330	2-16
	1	DBB copper	PVC203HS3A	20359	2-17
22	1	CBB MBB-DBB, holder set	PWHH062A	20526	2-26
	1	CBB MBB-DBB, copper	PWC203HN1A	20549	2-26
	1	CBB MBB-DBB, attachment	PWA40611A	20449	2-26
23	1	IFOS, device	PTBNA364A	21360	2-32
	1	IFOS, M&C area	PTMS3456A	20967	2-33
	1	IFOS, segregation wall section-section	PTW86A	20958	2-34

* The types shown in the part list are mounted.

The flatpack types can also be found in the ordering part of the catalogue.

System description of the section types

Outgoing section with vertical cable area for switch disconnecter fuses ABB XR and compartment fixed, with plugable contacts for horizontal devices



Note

- For compartments for circuit breakers ABB T1 up to T5, I_n 160 A up to 630 A
The compartments with ABB T1 up to T5 must always be equipped with phase barriers on the circuit breakers.
- For compartments universal
- For switch disconnecter fuses ABB XR size 00 up to size 3
- In order to achieve touch protection IPXXB, the DBB has to be protected with the covers
NHP 407062 R0001, which can be ordered from the device manufacturer.
- Maximum useable height for disconnectors size 00 up to size 3 or compartments is 1650 mm

Part list of the example ASSEMBLY

For ABB XR / compartments, 3 pole, 185 mm centre spacing
DBB 2000 A, MBB 2500 A

Legend	Quantity	Flatpack	Type*	Ord. No.*	See page
1	1	Cabinet frame	4/8RLG6A	20837	1-2
2	1	Hinges	RZ201A	21153	1-2
3	1	Rear wall, right	RR48VRA	21136	1-3
	1	Rear wall, left	RR48VLA	21135	1-3
5	1	Top plate	RDA4630A	20885	1-4
6	1	Bottom plate	RBE46LA	20864	1-5
7	1	Cable entry flange	RFMB4A	21481	1-7
11	1	Trim cover, labelling	RBBHB4A	21639	1-12
	1	Trim cover, vertical	RBCVM8A	21661	1-12
12	2	Cover for unoccupied device spaces	RBM150A	21854	1-13
13	1	Cable area door	RTK48RA	21319	1-14
14	1	Plinth	RSR46LA	21160	1-15
15	1	Mounting frame	PMB486A	20844	2-2
	1	Mounting set	PMM48A	21429	2-3
16	1	Cable fastening rail	PKB64A	21247	2-5
17	1	MBB holder set	PHH253R3A	20148	2-6
	1	MBB copper	PHC253R4A	20203	2-7
18	1	N holder set horizontal	PNHH2A	20290	2-8
	1	N copper horizontal	PNC25HD4A	20671	2-9
	1	N holder set vertical	PNHV4A	20830	2-10
	1	N copper vertical	PNC20VA11A	20820	2-10
19	1	PE holder set horizontal	PPHH2A	20311	2-11
	1	PE copper horizontal	PPC25HD4A	20803	2-12
	1	PE holder set vertical	PPHV4A	20812	2-13
	1	PE copper vertical	PPC20VA11A	20807	2-13
21	1	DBB holder set vertical	PVH20VM6A	21465	2-18
	1	DBB copper vertical	PVC203VS8A	21455	2-18
22	1	CBB MBB-DBB, copper vertical	PWC203VM6A	21440	2-27
23	1	IFOS, cable connection area	PTKMB486A	21487	2-34
	1	IFOS, segregation wall section-section	PTW86A	20958	2-34
25		Compartment fixed, with plugable contacts			from 3-8

* The types shown in the part list are mounted.

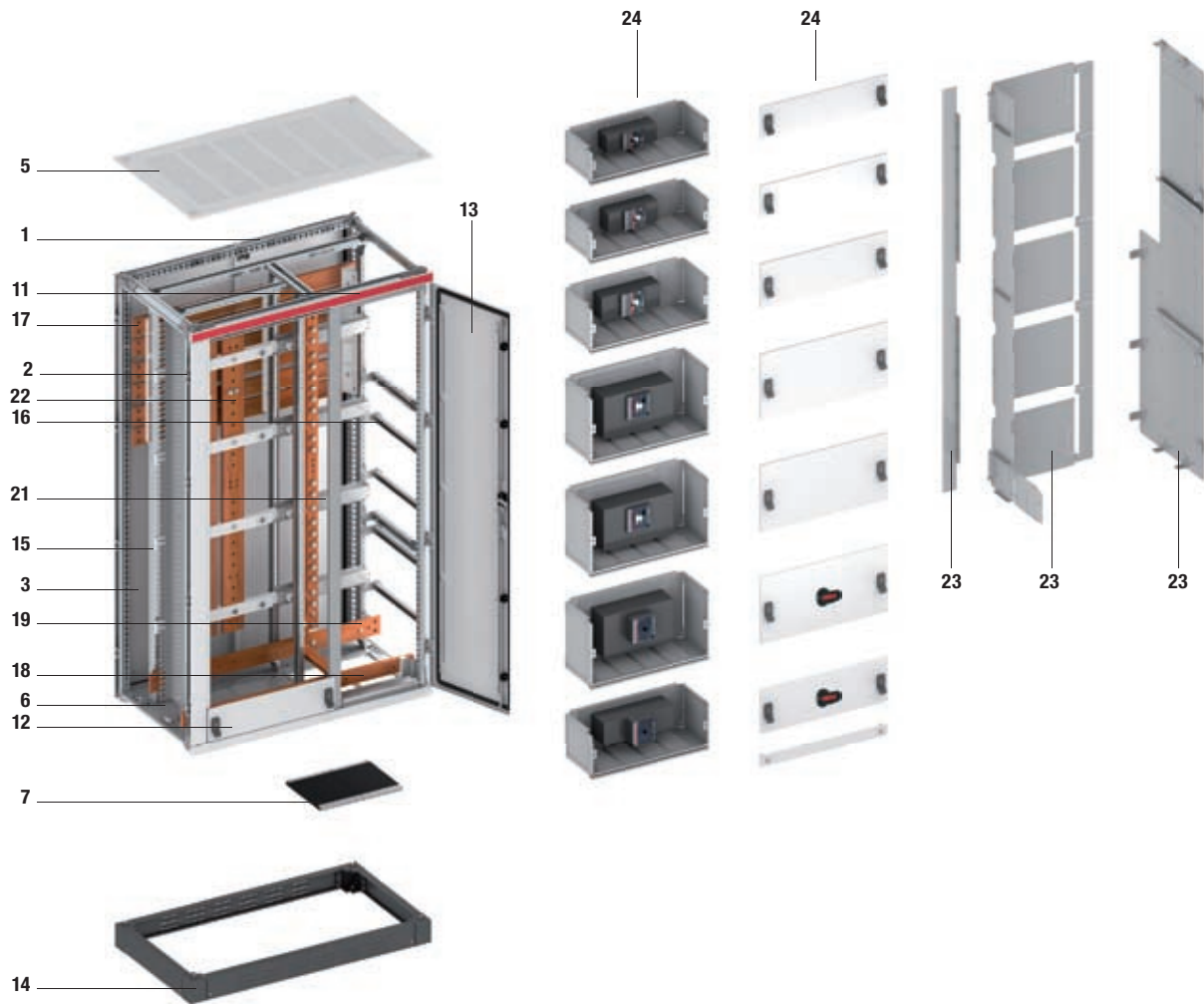
The flatpack types can also be found in the ordering part of the catalogue.

System description of the section types

Outgoing section with vertical cable area for

Compartment fixed, for cable connection

for horizontal devices



Note

- For compartments for circuit breakers ABB T1 up to T5, I_n 160 A up to 630 A
The compartments with ABB T1 up to T5 must always be equipped with phase barriers on the circuit breakers.
- For compartments universal
- Maximum useable height is 1650 mm
- To ensure touch protection IPXXB, spare spaces have to be occupied by universal compartments

Part list of the example ASSEMBLY

For compartments, 3 pole, 185 mm centre spacing

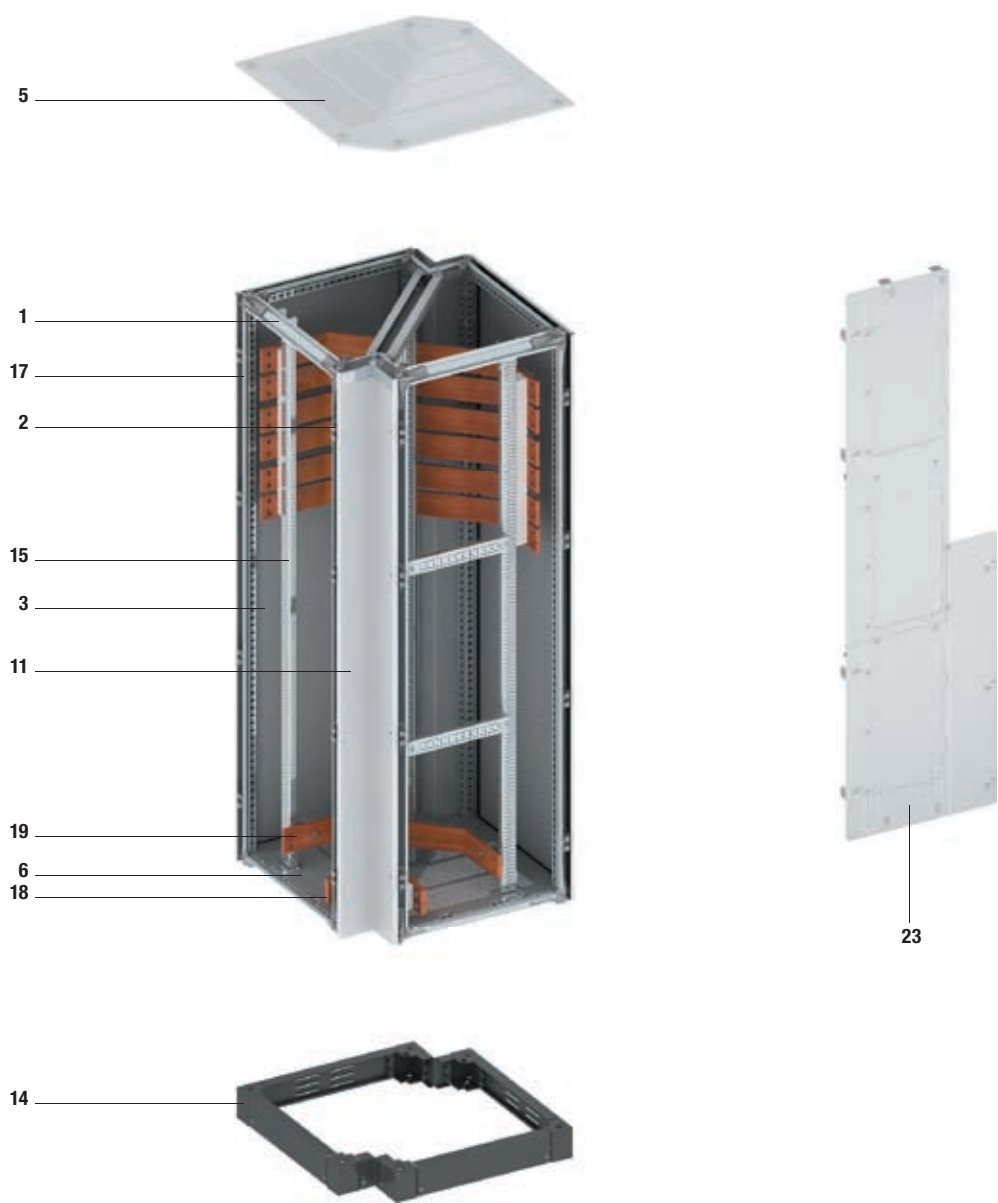
DBB 2000 A, MBB 2500 A

Legend	Quantity	Flatpack	Type*	Ord. No.*	See page
1	1	Cabinet frame	4/8RLG6A	20837	1-2
2	1	Hinges	RZ201A	21153	1-2
3	1	Rear wall, right	RR48VRA	21136	1-3
	1	Rear wall, left	RR48VLA	21135	1-3
5	1	Top plate	RDA4630A	20885	1-4
6	1	Bottom plate	RBE46LA	20864	1-5
7	1	Cable entry flange	RFMB4A	21481	1-7
11	1	Trim cover, labelling	RBBHB4A	21639	1-12
	1	Trim cover, vertical	RBCVM8A	21661	1-12
12	1	Cover for unoccupied device spaces	RBM150A	21854	1-13
13	1	Cable area door	RTK48RA	21319	1-14
14	1	Plinth	RSR46LA	21160	1-15
15	1	Mounting frame	PMB486A	20844	2-2
	1	Mounting set	PMS48A	21430	2-3
16	1	Cable fastening rail	PKB64A	21247	2-5
17	1	MBB holder set	PHH253R3A	20148	2-6
	1	MBB copper	PHC253R4A	20203	2-7
18	1	N holder set horizontal	PNHH2A	20290	2-8
	1	N copper horizontal	PNC25HD4A	20671	2-9
	1	N holder set vertical	PNHV4A	20830	2-10
	1	N copper vertical	PNC20VA11A	20820	2-10
19	1	PE holder set horizontal	PPHH2A	20311	2-11
	1	PE copper horizontal	PPC25HD4A	20803	2-12
	1	PE holder set vertical	PPHV44A	20812	2-13
	1	PE copper vertical	PPC20VA11A	20807	2-13
21	1	DBB holder set vertical	PVH20VS4A	21469	2-18
	1	DBB copper vertical	PVC203VL8A	21452	2-18
22	1	CBB MBB-DBB, copper vertical	PWC203VS6A	21441	2-27
23	1	IFOS, cable connection area	PTKSB486A	21488	2-34
	1	IFOS, segregation wall section-section	PTW86A	20958	2-34
24		Compartment fixed, for cable connection			from 3-2

* The types shown in the part list are mounted.
The flatpack types can also be found in the ordering part of the catalogue.

System description of the section types

Corner section



Part list of the example ASSEMBLY

Corner section

MBB 2500 A

Legend	Quantity	Flatpack	Type*	Ord. No.*	See page
1	1	Cabinet frame	E8RLG66A	22187	1-2
2	1	Hinges	RZ203A	22208	1-2
3	1	Rear wall, left	RR28VA	21130	1-3
	1	Rear wall, right	RR28VA	21130	1-3
5	1	Top plate	RDA6630A	22285	1-4
6	1	Bottom plate	RBA66LA	22289	1-5
11	1	Corner trim cover, vertical	RBCVD866A	22320	1-13
14	1	Plinth	RSR66LA	22277	1-16
15	1	Mounting frame	PMD866A	22215	2-2
17	1	MBB holder set	PHH253R3A	20148	2-6
	1	MBB copper	PHC253R66A	21870	2-7
18	1	N holder set horizontal	PNHH2A	20290	2-8
	1	N copper horizontal	PNC25D66A	21988	2-9
19	1	PE holder set horizontal	PPHH3A	21864	2-11
	1	PE copper horizontal	PPC25D66A	21998	2-12
23	1	IFOS, segregation wall section-section	PTW86A	20958	2-34

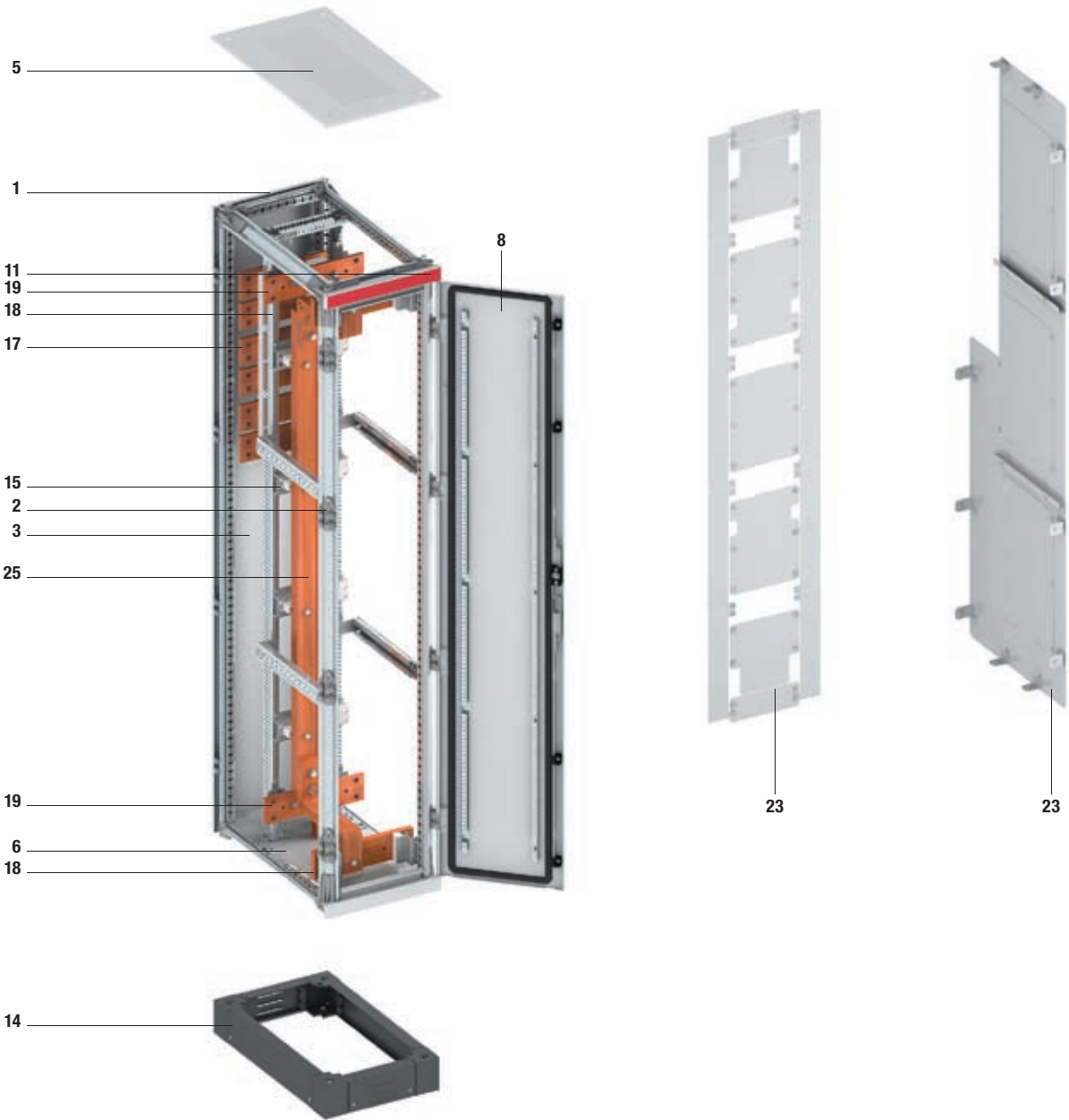
* The types shown in the part list are mounted.

The flatpack types can also be found in the ordering part of the catalogue.

System description of the section types

Offset section

Offsetting of N / PE



Part list of the example ASSEMBLY

Offsetting of N and PE

MBB 2500 A

Legend	Quantity	Flatpack	Type*	Ord. No.*	See page
1	1	Cabinet frame	1/8RLG6A	22186	1-2
2	1	Hinges	RZ201A	21153	1-2
3	1	Rear wall	RR18VA	22280	1-3
5	1	Top plate	RDA1630A	22284	1-4
6	1	Bottom plate	RBA16LA	22288	1-5
8	1	Door	RTD18A	22304	1-15
11	1	Front cover	RBBHA1A	22314	1-12
14	1	Plinth	RSR16LA	22276	1-16
15	1	Mounting frame	PMA186A	22213	2-2
17	1	MBB holder set	PHH253R2A	20138	2-6
	1	MBB copper	PHC103R1A	21900	2-7
18	2	N holder set horizontal	PNHH2A	20290	2-8
	2	N copper horizontal	PNC25HD1A	21920	2-9
19	2	PE holder set horizontal	PPHH2A	20311	2-11
	2	PE copper horizontal	PPC25HD1A	21954	2-12
25	1	N holder set vertical	PNHV4A	20830	2-10
	1	N copper vertical offsetting	PNC25VU11A	22191	2-10
	1	PE holder set vertical	PPHV41A	22308	2-13
	1	PE copper vertical offsetting	PPC25VU11A	22201	2-13
23	1	IFOS, offset section	PTU184A	22352	2-35
	1	IFOS, segregation wall section-section	PTW86A	20958	2-34

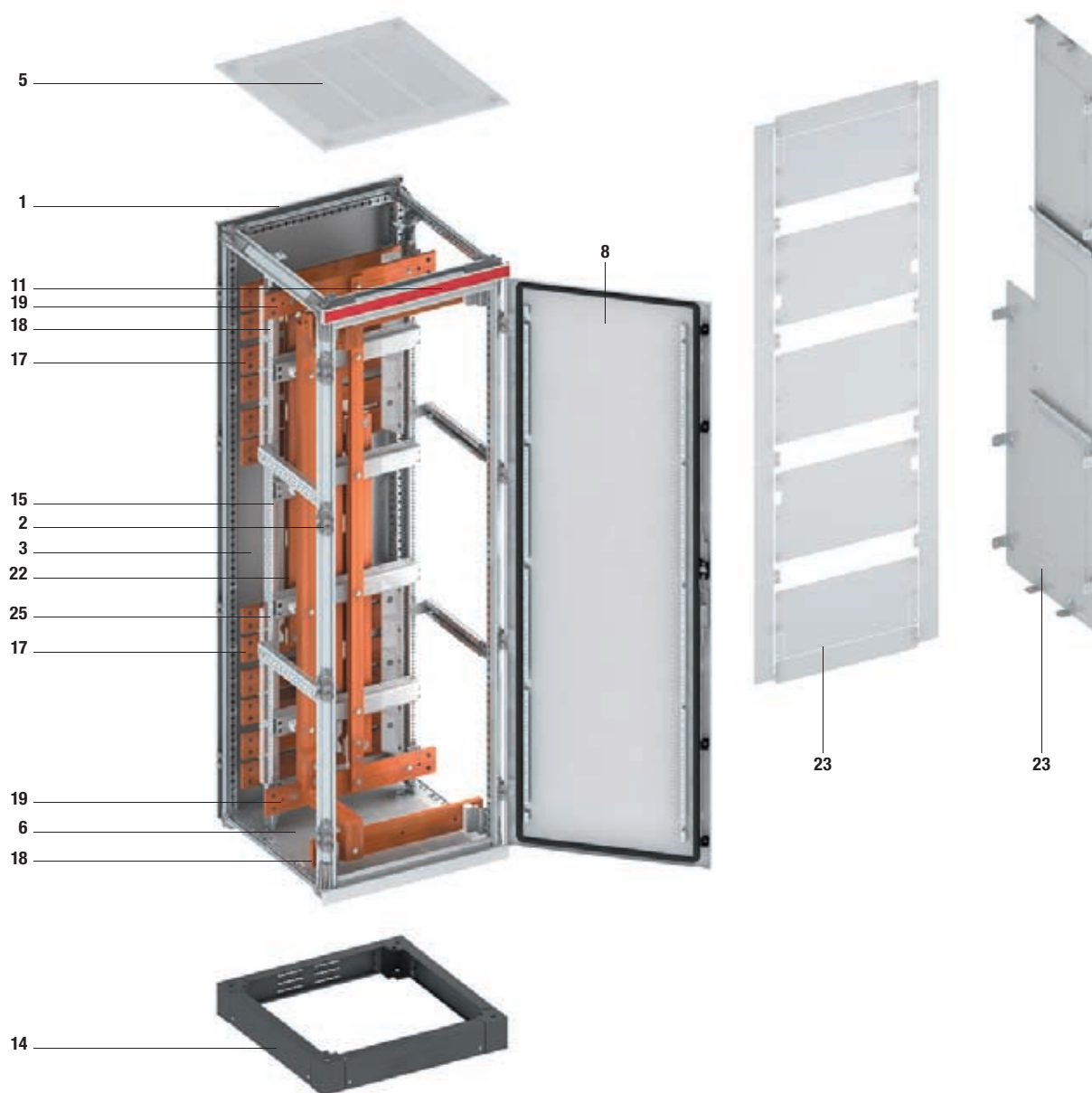
* The types shown in the part list are mounted.

The flatpack types can also be found in the ordering part of the catalogue.

System description of the section types

Offset section

Offsetting of MBB / N / PE



Part list of the example ASSEMBLY

Offsetting of MBB / N / PE

MBB 2500 A

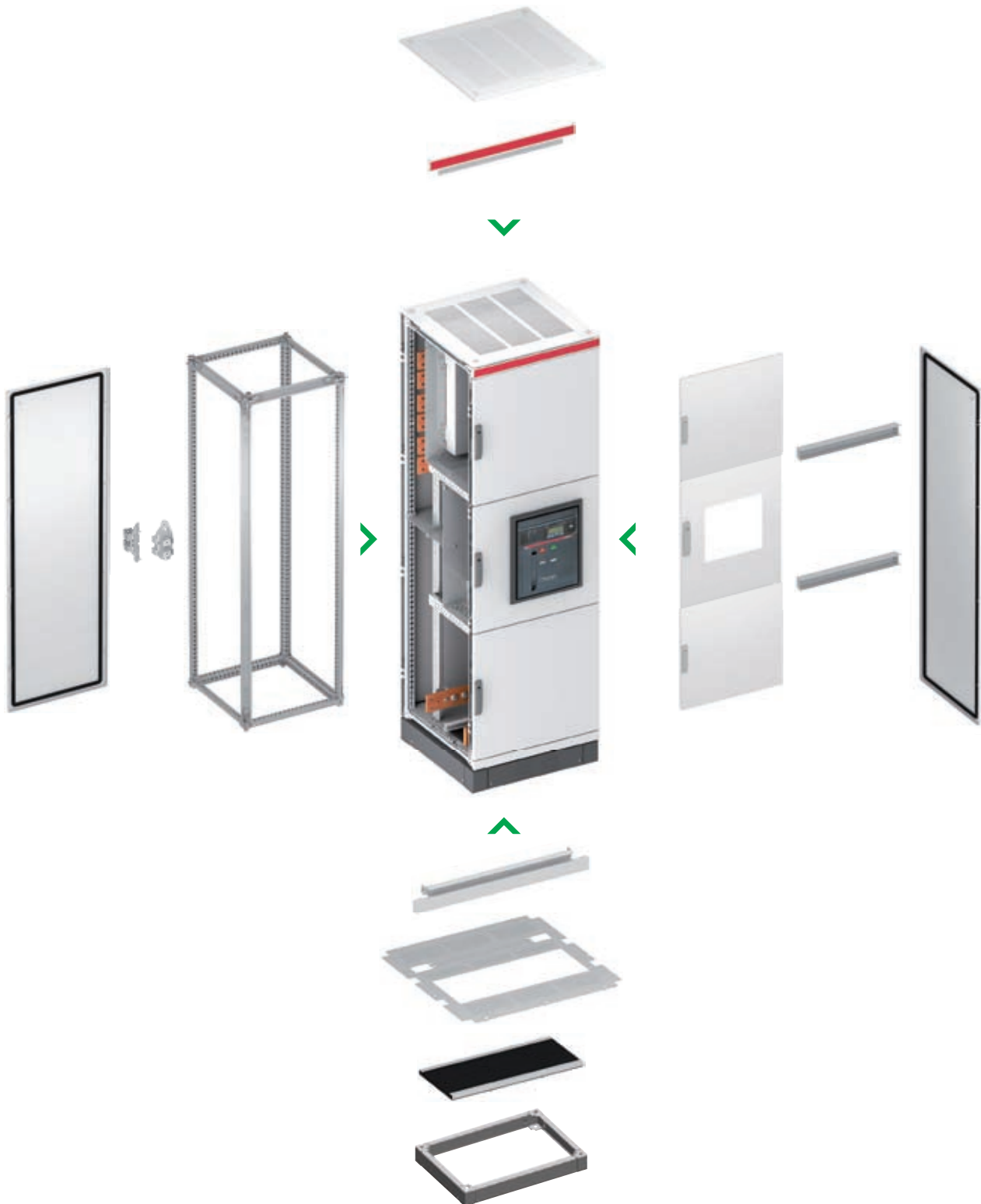
Legend	Quantity	Flatpack	Type*	Ord. No.*	See page
1	1	Cabinet frame	2/8RLG6A	20833	1-2
2	1	Hinges	RZ201A	21153	1-2
3	1	Rear wall	RR28VA	21130	1-3
5	1	Top plate	RDA2630A	20881	1-4
6	1	Bottom plate	RBA26LA	20853	1-5
8	1	Door	RTD28A	22305	1-15
11	1	Front cover	RBBHA2A	21634	1-12
14	1	Plinth	RSR26LA	21156	1-16
15	1	Mounting frame	PMA286A	20839	2-2
17	2	MBB holder set	PHH253R2A	20138	2-6
	2	MBB copperr	PHC253R2A	20199	2-7
18	2	N holder set horizontal	PNHH2A	20290	2-8
	2	N copper horizontal	PNC25HD2A	20667	2-9
19	2	PE holder set horizontal	PPHH2A	20311	2-11
	2	PE copper horizontal	PPC25HD2A	20799	2-12
25	1	N holder set vertical	PNHV4A	20830	2-10
	1	N copper vertical offsetting	PNC25VU11A	22191	2-10
	1	PE holder set vertical	PPHV42A	22309	2-13
	1	PE copper vertical offsetting	PPC25VU11A	22201	2-13
22	1	CBB attachment	PWA31212A	22404	2-28
	1	CBB, MBB-MBB holder	PXH135RA	22359	2-28
	1	CBB, MBB-MBB, copper vertical	PXC253RA	22176	2-28
23	1	IFOS, offset section	PTU284A	22353	2-35
	1	IFOS, segregation wall section-section	PTW86A	20958	2-34

* The types shown in the part list are mounted.

The flatpack types can also be found in the ordering part of the catalogue.

TriLine® Switchgear cabinet

Frame and cladding



TriLine® Switchgear cabinet

Frame and cladding

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TriLine® Switchgear cabinet

Cabinet frame

Hinges



Panel width (PW)	Width in mm	Overall height (BH)	Height in mm	FLATPACK info	FLATPACK not mounted Type	Ord.-No.*	MOUNTED assembled cabinet frame Type	Ord.-No.*
Switchgear cabinet frame, section depth 625 mm								
1	364	8	1913	Width profiles* Height profiles* Depth profiles* Corner pieces*	RPB1P4 RPH8P4 RPB2P4 RZ200	46771 46777 46772 46782	1/8RLG6A	22186
1,5	489	8	1913	Width profiles Height profiles Depth profiles Corner pieces	RPB15P4 RPH8P4 RPB2P4 RZ200	46864 46777 46772 46782	15/8RLG6A	20832
2	614	8	1913	Width profiles Height profiles Depth profiles Corner pieces	RPB2P4 RPH8P4 RPB2P4 RZ200	46772 46777 46772 46782	2/8RLG6A	20833
2,5	739	8	1913	Width profiles Height profiles Depth profiles Corner pieces	RPB25P4 RPH8P4 RPB2P4 RZ200	46865 46777 46772 46782	25/8RLG6A	20834
3	864	8	1913	Width profiles Height profiles Depth profiles Corner pieces	RPB3P4 RPH8P4 RPB2P4 RZ200	46774 46777 46772 46782	3/8RLG6A	20835
3,5	989	8	1913	Width profiles Height profiles Depth profiles Corner pieces	RPB35P4 RPH8P4 RPB2P4 RZ200	46866 46777 46772 46782	35/8RLG6A	20836
4	1114	8	1913	Width profiles Height profiles Depth profiles Corner pieces	RPB4P4 RPH8P4 RPB2P4 RZ200	46775 46777 46772 46782	4/8RLG6A	20837
Switchgear cabinet frame, corner section, section depth 625 mm								
	8	1913		Depth profiles* Height profiles* Depth profiles* Corner pieces*	RPB2P4 RPH8P6 RPB2P4 RZ204	46772 22211 46772 22210	E8RLG66A	22187
Hinges for sections with full size doors, horizontal devices or compartments 16 Standard hinges Incl. fastening material					RZ201	46783	RZ201A	21153
Hinges for sections with sectional doors 8 Standard hinges 8 Hinges for side wall assembly Incl. fastening material					RZ202	46784	RZ202A	21154
Hinges for corner section 24 Standard hinges Incl. fastening material					RZ203	22209	RZ203A	22208

*1 The flatpacks contain the required quantities for one cabinet.

TriLine® Switchgear cabinet

Rear walls

Side walls



			FLATPACK not mounted		MOUNTED installed on the cabinet	
Panel width (PW)	Overall height (OH)	Rear wall side	Type	Ord.-No.*	Type	Ord.-No.*
Rear walls, not ventilated Incl. fastening material						
1	8	for corner pieces (2 pices)	RR18	22283	RR18A	22281
1,5	8		RR158	21137	RR158A	21121
2	8		RR28	21138	RR28A	21122
2,5	8		RR258	21139	RR258A	21123
3	8		RR38	21140	RR38A	21124
3,5	8	left	RR358L	21141	RR358LA	21125
3,5	8	right	RR358R	21142	RR358RA	21126
4	8	left	RR48L	21143	RR48LA	21127
4	8	right	RR48R	21144	RR48RA	21128
Rear walls, ventilated Incl. fastening material						
1	8	for corner pieces (2 pices)	RR18V	22282	RR18VA	22280
1,5	8		RR158V	21145	RR158VA	21129
2	8		RR28V	21146	RR28VA	21130
2,5	8		RR258V	21147	RR258VA	21131
3	8		RR38V	21148	RR38VA	21132
3,5	8	left	RR358VL	21149	RR358VLA	21133
3,5	8	right	RR358VR	21150	RR358VRA	21134
4	8	left	RR48VL	21151	RR48VLA	21135
4	8	right	RR48VR	21152	RR48VRA	21136
Side walls (2 pieces), section depth 625 mm Incl. fastening material						
	8		RSW86P2	45822	RSW86P2A	21176

TriLine® Switchgear cabinet

Top plates

Panel width (PW)	FLATPACK not mounted		MOUNTED installed on the cabinet	
	Type	Ord.-No.	Type	Ord.-No.*
 Top plates with ventilation slots, without cut-out, section depth 625 mm Degree of protection IP30 Incl. fastening material				
1	RDA1630	22286	RDA1630A	22284
1,5	RDA15630	20900	RDA15630A	20880
2	RDA2630	20901	RDA2630A	20881
2,5	RDA25630	20902	RDA25630A	20882
3	RDA3630	20903	RDA3630A	20883
3,5	RDA35630	20904	RDA35630A	20884
4	RDA4630	20905	RDA4630A	20885
 Top plates with ventilation slots and cut-outs for flange plates (RF...), section depth 625 mm For incoming or outgoing sections with horizontal cable area Degree of protection IP30 Incl. fastening material				
1,5	RDB15630	20906	RDB15630A	20886
2	RDB2630	20907	RDB2630A	20887
2,5	RDB25630	20908	RDB25630A	20888
3	RDB3630	20909	RDB3630A	20889
3,5	RDB35630	20910	RDB35630A	20890
4	RDB4630	20911	RDB4630A	20891
 Top plates with ventilation slots and cut-outs for cable flanges (ZW...), section depth 625 mm For incoming or outgoing sections with horizontal cable area Degree of protection IP30 Incl. fastening material				
1,5	RDC15630	20912	RDC15630A	20892
2	RDC2630	20913	RDC2630A	20893
2,5	RDC25630	20914	RDC25630A	20894
3	RDC3630	20915	RDC3630A	20895
3,5	RDC35630	20916	RDC35630A	20896
4	RDC4630	20917	RDC4630A	20897
 Top plates with ventilation slots and cut-outs for flange plates (RF...), section depth 625 mm For outgoing sections with vertical cable area Degree of protection IP30 Incl. fastening material				
For 1 pcs. flange plate large or 3 pcs. flange plate small				
4	RDE4630	20918	RDE4630A	20898
 Top plates with ventilation slots without cut-outs section depth 625 mm For corner sections Degree of protection IP30 Incl. fastening material	RDA6630	22287	RDA6630A	22285

TriLine® Switchgear cabinet

Bottom plates

	Panel width (PW)	FLATPACK not mounted		MOUNTED installed on the cabinet	
		Type	Ord.-No.*	Type	Ord.-No.*
	Bottom plates with ventilation slots, without cut-outs, section depth 625 mm Degree of protection IP30 Incl. fastening material				
	1	RBA16L	22290	RBA16LA	22288
	1,5	RBA156L	20866	RBA156LA	20852
	2	RBA26L	20867	RBA26LA	20853
	2,5	RBA256L	20868	RBA256LA	20854
	3	RBA36L	20869	RBA36LA	20855
	3,5	RBA356L	20870	RBA356LA	20856
	4	RBA46L	20871	RBA46LA	20857
	Bottom plates with ventilation slots and cut-outs for flange plates (RF...), section depth 625 mm For incoming or outgoing sections with horizontal cable area Degree of protection IP30 Incl. fastening material				
	1,5	RBB156L	20872	RBB156LA	20858
	2	RBB26L	20873	RBB26LA	20859
	2,5	RBB256L	20874	RBB256LA	20860
	3	RBB36L	20875	RBB36LA	20861
	3,5	RBB356L	20876	RBB356LA	20862
	4	RBB46L	20877	RBB46LA	20863
	Bottom plates with ventilation slots and cut-outs for flange plates (RF...), section depth 625 mm For outgoing sections with vertical cable area Degree of protection IP30 Incl. fastening material				
	For 1 pcs. flange plate large or 3 pcs. flange plate small				
	Bottom plates with ventilation slots, without cut-outs, section depth 625 mm For corner section Degree of protection IP30 Incl. fastening material	RBA66L	22291	RBA66LA	22289

Cable entry flanges

Flanges for top or bottom plates

For sections with horizontal cable area



Panel width (PW)	For bottom plate	For top plate	Number of cable entries	FLATPACK not mounted Type	Ord.-No. +	MONTIERT installed in the cabinet Type	Ord.-No. +
Flange plate, aluminium, closed Incl. fastening material							
1,5	RBB156L	RDB15630		RFGA15	21407	RFGA15A	21389
2	RBB26L	RDB2630		RFGA2	21408	RFGA2A	21390
2,5	RBB256L	RDB25630		RFGA25	21409	RFGA25A	21391
3	RBB36L	RDB3630		RFGA3	21410	RFGA3A	21392
3,5	RBB356L	RDB35630		RFGA35	21411	RFGA35A	21393
4	RBB46L	RDB4630		RFGA4	21412	RFGA4A	21394
Flange plate, aluminium, incl. cable sleeves 14 - 68 mm Incl. fastening material							
1,5	RBB156L	RDB15630	4	RFKA15	21413	RFKA15A	21395
2	RBB26L	RDB2630	10	RFKA2	21414	RFKA2A	21396
2,5	RBB256L	RDB25630	12	RFKA25	21415	RFKA25A	21397
3	RBB36L	RDB3630	12	RFKA3	21416	RFKA3A	21398
3,5	RBB356L	RDB35630	16	RFKA35	21417	RFKA35A	21399
4	RBB46L	RDB4630	20	RFKA4	21418	RFKA4A	21400
Flange plate with microcellular rubber with pre-cut cable entries Incl. fastening material, degree of protection IP00							
1,5	RBB156L		4	RFMA15	21419	RFMA15A	21401
2	RBB26L		6	RFMA2	21420	RFMA2A	21402
2,5	RBB256L		7	RFMA25	21421	RFMA25A	21403
3	RBB36L		8	RFMA3	21422	RFMA3A	21404
3,5	RBB356L		10	RFMA35	21423	RFMA35A	21405
4	RBB46L		12	RFMA4	21424	RFMA4A	21406
Closing flange							
1 pcs.				ZW51	39451	ZW51A	21622
10 pcs.		RDC ...		ZW51P10	62466		
Nipple flange							
1 pcs.				ZW52	39452	ZW52A	21623
10 pcs.		RDC ...		ZW52P10	62467		
Flange for Metric screw fittings							
4 x M25 / M20, 12 x M20							
1 pcs.				ZW53	39453	ZW53A	21624
10 pcs.		RDC ...		ZW53P10	62468		
Microcellular rubber flange							
1 pcs.				ZW54	39454	ZW54A	21625
10 pcs.		RDC ...		ZW54P10	62469		
Flange with cable sleeves							
sleeves 14 - 68 mm			2	ZW455	39512	ZW455A	21626
sleeves 14 - 54 mm		RDC ...	3	ZW456	39513	ZW456A	21627

Cable entry flanges

Flanges for top or bottom plates

For sections with vertical cable area



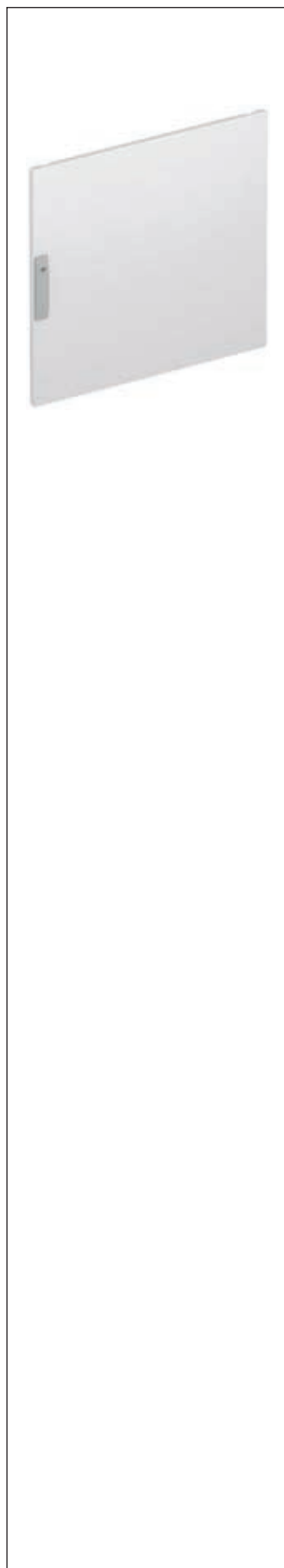





Panel width (PW)	For bottom plates	For top plates	Number of cable entries	FLATPACK not mounted Type	Ord.-No.★	MOUNTED installed in the cabinet Type	Ord.-No.★
Flange plate large, aluminium, closed Incl. fastening material							
4	RBE46L	RDE4630		RFAB4	21482	RFAB4A	21477
Flange plate small, aluminium, closed Incl. fastening material							
4		RDE4630		RFBB4	21483	RFBB4A	21478
Flange plate small, aluminium, incl. cable sleeves 14 - 68 mm Incl. fastening material							
4		RDE4630	4	RFCB4	21484	RFCB4A	21479
Flange plate small, aluminium, incl. cable sleeves 14 - 54 mm Incl. fastening material							
4		RDE4630	5	RFDB4	21485	RFDB4A	21480
Flange plate large,with microcellular rubber with pre-cut cable entries Incl. fastening material, degree of protection IP00							
4	RBE46L			RFMB4	21486	RFMB4A	21481
Cable sleeves							
Cable diameter		Hole diameter					
ø 14 – 54 mm		ø 60 mm		RZF9	46612		
ø 14 – 68 mm		ø 78 mm		RZF10	46613		

TriLine® Switchgear cabinet

Sectional doors without cut-out



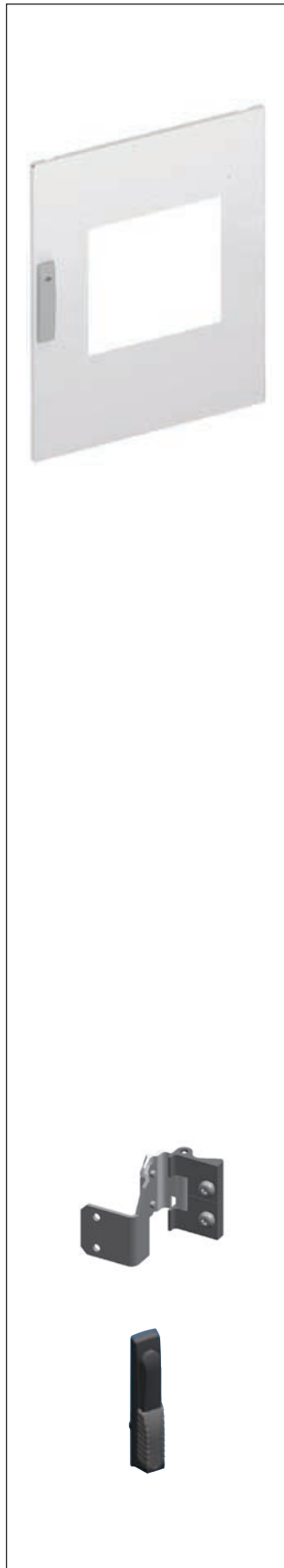
		FLATPACK not mounted		MOUNTED installed on the cabinet	
Panel width (PW)	Height in mm	Type	Ord.-No.	Type	Ord.-No.*
Sectional doors without cut-out, hinged right*² Incl. hinges, Espagnolette closure incl. lock with 3 mm double-bit operating pin					
1,5	450	RTS1545	21211	RTS1545A	21183
1,5	600	RTS1560	21212	RTS1560A	21184
1,5	750	RTS1575	21213	RTS1575A	21185
1,5	900	RTS1590	21214	RTS1590A	21186
2	450	RTS245	21215	RTS245A	21187
2	600	RTS260	21216	RTS260A	21188
2	750	RTS275	21217	RTS275A	21189
2	900	RTS290	21218	RTS290A	21190
2,5	450	RTS2545	21219	RTS2545A	21191
2,5	600	RTS2560	21220	RTS2560A	21192
2,5	750	RTS2575	21221	RTS2575A	21193
2,5	900	RTS2590	21222	RTS2590A	21194
3	450	RTS345	21223	RTS345A	21195
3	600	RTS360	21224	RTS360A	21196
3	750	RTS375	21225	RTS375A	21197
3	900	RTS390	21226	RTS390A	21198
3,5	450	RTS3545	21227	RTS3545A	21199
3,5	600	RTS3560	21228	RTS3560A	21200
3,5	750	RTS3575	21229	RTS3575A	21201
3,5	900	RTS3590	21230	RTS3590A	21202
4	450	RTS445	21231	RTS445A	21203
4	600	RTS460	21232	RTS460A	21204
4	750	RTS475	21233	RTS475A	21205
4	900	RTS490	21234	RTS490A	21206

^{*2} Door hinged left is possible by rotating the door,
the lock then also has to be turned.

*2 Door hinged left is possible by rotating the door,
the lock then also has to be turned

TriLine® Switchgear cabinet

Sectional doors with cut-out for breaker



				FLATPACK not mounted		MOUNTED installed on the cabinet	
Panel width (PW)	Height in mm **	Device Type	Hinged	Type	Ord.-No.*	Type	Ord.-No.*
Sectional doors for ABB T7 / X1 Incl. hinges Espagnolette closure incl. with 3 mm double-bit lock operating pin							
1,5	600	fixed	right	RTSD11560	21285	RTSD11560A	21273
2	600	fixed	right	RTSD1260	22246	RTSD1260A	22238
1,5	600	withdrawable	right	RTSD61560	21287	RTSD61560A	21275
2	600	withdrawable	right	RTSD6260	22249	RTSD6260A	22241
1,5	600	fixed	left	RTSD41560	21286	RTSD41560A	21274
2	600	fixed	left	RTSD4260	22248	RTSD4260A	22240
1,5	600	withdrawable	left	RTSD31560	21288	RTSD31560A	21276
2	600	withdrawable	left	RTSD3260	22247	RTSD3260A	22239
Sectional doors for ABB E2 Incl. hinges Espagnolette closure incl. with 3 mm double-bit lock operating pin							
2	600	fixed withdrawable	right	RTSG7260	21289	RTSG7260A	21277
2	600	fixed withdrawable	left	RTSG8260	21290	RTSG8260A	21278
Sectional doors for ABB E3 Incl. hinges Espagnolette closure incl. with 3 mm double-bit lock operating pin							
3	600	fixed withdrawable	right	RTSH7360	21293	RTSH7360A	21281
3	600	fixed withdrawable	left	RTSH8360	21294	RTSH8360A	21282
180° Hinge for sectional doors Incl. fastening material							
2 pcs.				RZ54P2	46165	RZ54P2A	21617
Swivel handle for semi-cylinder 40 mm, with sealable cap				ZH223	45703	ZH223A	21619

TriLine® Switchgear cabinet

Sectional covers without cut-out

Sectional covers with cut-out for breaker

	Panel width (PW)	Height in mm	For devices	Device version	FLATPACK not mounted		MOUNTED installed on the cabinet	
					Type	Ord.-No.	Type	Ord.-No.*
	Sectional covers without cut-out Fixed with bayonette closure							
	1,5	600			RTB1560	21261	RTB1560A	21249
	2	600			RTB260	21262	RTB260A	21250
	2	900			RTB290	21263	RTB290A	21251
	2	1350			RTB213	21264	RTB213A	21252
	2,5	600			RTB2560	21265	RTB2560A	21253
	3	600			RTB360	21266	RTB360A	21254
	3	900			RTB390	21267	RTB390A	21255
	3	1350			RTB313	21268	RTB313A	21256
	3,5	600			RTB3560	21269	RTB3560A	21257
	4	600			RTB460	21270	RTB460A	21258
	4	900			RTB490	21271	RTB490A	21259
	4	1350			RTB413	21272	RTB413A	21260
	Sectional covers For incoming or outgoing sections with 2 devices next to each other Fixed with bayonette closure							
	2,5	600	ABB T7 / X1	fixed	RTBE12560	21300	RTBE12560A	21297
	3	600	ABB T7 / X1	withdrawable	RTBE3360	21301	RTBE3360A	21298
	Sectional covers For incoming or outgoing sections with 3 devices next to each other Fixed with bayonette closure							
	4	600	ABB T7 / X1	fixed	RTBF1460	21302	RTBF1460A	21299

TriLine® Switchgear cabinet

Sectional covers with cut-out for InLine / SlimLine devices
Door separation profile for sectional doors or covers



			FLATPACK not mounted		MOUNTED installed on the cabinet	
Panel width (PW)	Height in mm	Maximum useable width in mm	Type	Ord.-No.*	Type	Ord.-No.*
Sectional covers for switch disconnectors with NH-fuses For devices ABB SlimLine XR						
2	900	500	RTBMD290	21311	RTBMD290A	21303
3	900	750	RTBMD390	21312	RTBMD390A	21304
Sectional covers for NH-fuse switch disconnectors For devices ABB InLine						
Cable connection from tzhe bottom						
2	1350	500	RTBNDB213	22444	RTBNDB213A	22438
3	1350	750	RTBNDB313	22445	RTBNDB313A	22439
Cable connection from tzhe bottom						
2	1350	500	RTBNDT213	22447	RTBNDT213A	22441
3	1350	750	RTBNDT313	22448	RTBNDT313A	22442
Door separation profile for sectional doors or sectional covers Incl. fastening material						
1,5			RTS15	21170	RTS15A	21164
2			RTS2	21171	RTS2A	21165
2,5			RTS25	21172	RTS25A	21166
3			RTS3	21173	RTS3A	21167
3,5			RTS35	21174	RTS35A	21168
4			RTS4	21175	RTS4A	21169

TriLine® Switchgear cabinet

Front trim covers horizontal

Front trim covers vertical



		FLATPACK not mounted		MOUNTED installed on the cabinet	
Panel width (PW)	Overall height (OH)	Type	Ord.-No.*	Type	Ord.-No.*
Front trim cover horizontal for labelling powder coated sheet-steel blank cover at the bottom, labelling panel made of PS at the top For sections without a vertical cable area					
1		RBBHA1	22318	RBBHA1A	22314
1,5		RBBHA15	21647	RBBHA15A	21633
2		RBBHA2	21648	RBBHA2A	21634
2,5		RBBHA25	21649	RBBHA25A	21635
3		RBBHA3	21650	RBBHA3A	21636
3,5		RBBHA35	21651	RBBHA35A	21637
4		RBBHA4	21652	RBBHA4A	21638
Front trim cover horizontal for labelling powder coated sheet-steel blank cover at the bottom, labelling panel made of PS at the top For sections with a vertical cable area					
4		RBBHB4	21653	RBBHB4A	21639
Front trim cover horizontal powder coated sheet-steel blank cover at the top and bottom For sections without a vertical cable area					
1		RBAHA1	22316	RBAHA1A	22312
1,5		RBAHA15	21654	RBAHA15A	21640
2		RBAHA2	21655	RBAHA2A	21641
2,5		RBAHA25	21656	RBAHA25A	21642
3		RBAHA3	21657	RBAHA3A	21643
3,5		RBAHA35	21658	RBAHA35A	21644
4		RBAHA4	21659	RBAHA4A	21645
Front trim cover horizontal powder coated sheet-steel blank cover at the top and bottom For sections with a vertical cable area					
4		RBAHB4	21660	RBAHB4A	21646
Front trim cover vertical For devices ABB SlimLine XR and compartments fixed, with plugable contacts and compartments fixed, for cable connection					
4	8	RBCVM8	21663	RBCVM8A	21661

TriLine® Switchgear cabinet

Covers for unoccupied device spaces

Height in mm	FLATPACK not mounted		MOUNTED installed on the cabinet	
	Type	Ord.-No.*	Type	Ord.-No.*
	Front cover vertical For devices ABB SlimLine XR and compartment for pluggable connection and compartment for cable connection			
	4	8	RBCVM8	21663
	Front cover vertical For corner section , section depth 625 mm			
	8		RBCVD866	22321
	Cover for unoccupied device spaces* For devices ABB SlimLine XR			
	50 100 150 200		RBM50 RBM100 RBM150 RBM200	21674 21675 21855 21676
	Cover for unoccupied device spaces For devices ABB InLine			
	Cable connection from the bottom 50 100		RBNB50 RBNB100	22430 22431
	Cable connection from the bottom 50 100		RBNT50 RBNT100	22432 22433
			RBNB50A RBNB100A	22422 22423
			RBNT50A RBNT100A	22424 22425
*To ensure touch protection IPXXB, it is necessary to install protection covers over the DBB.				

TriLine® Switchgear cabinet

Doors



Panel width (PW)	Overall height (BH)	Compartment section version	FLATPACK not mounted Type	Ord.-No.*	MOUNTED installed on the cabinet Type	Ord.-No.*
Cable area door, hinged right Incl. door locking rod and 3 mm double-bit key For outgoing section with vertical cable area			RTK48R	21320	RTK48RA	21319
4	8					
Compartment door for Form 2b, hinged left* Incl. door locking rod and 3 mm double-bit key			RTCS48L	21552	RTCS48LA	21550
4	8	Compartment fixed, with plugable contacts				
Door, hinged right Incl. door locking rod and 3 mm double-bit key For offset section			RTD18	22306	RTD18A	22304
1	8					
2	8		RTD28	22307	RTD28A	22305
180° Hinge for standard doors, cable area door or compartment door 2b Incl. fastening material			RZ9P4	45993	RZ9P4A	21618
4 pcs.						
Swivel handle for semi-cylinder 40 mm, with sealable cap			ZH223	45703	ZH223A	21619

* Not suitable for compartment fixed, for cable connection

* Not suitable for compartment fixed, for cable connection.

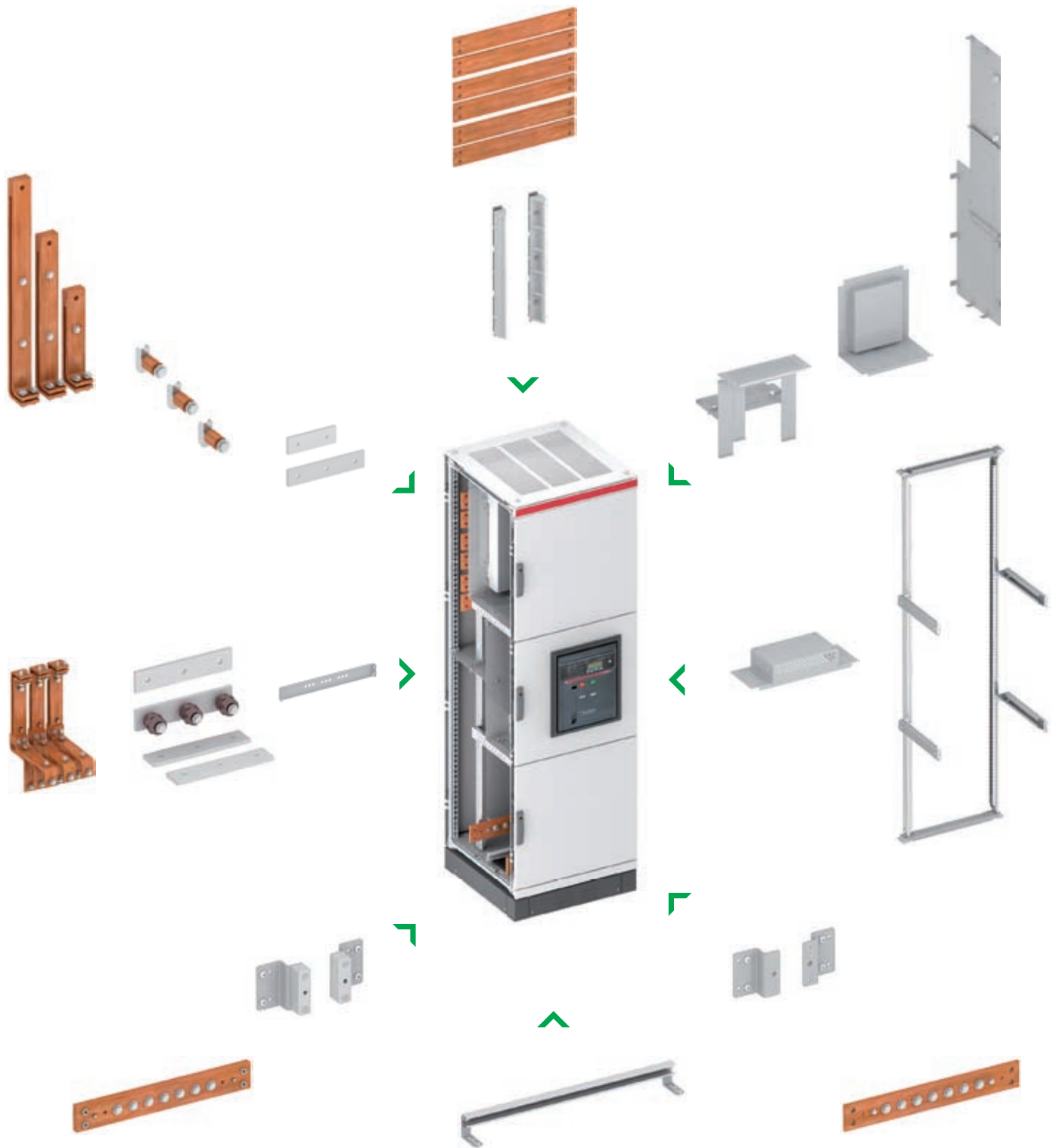
TriLine® Switchgear cabinet

Plinths



Panel width (PW)	FLATPACK not mounted		MOUNTED installed on the cabinet	
	Type	Ord.-No. +	Type	Ord.-No. +
Plinth with ventilation apertures, section depth 625 mm				
1	RSR16L	22278	RSR16LA	22276
1,5	RSR156L	21387	RSR156LA	21155
2	RSR26L	66800	RSR26LA	21156
2,5	RSR256L	21388	RSR256LA	21157
3	RSR36L	66801	RSR36LA	21158
3,5	RSR356L	21161	RSR356LA	21159
4	RSR46L	66802	RSR46LA	21160
Plinth with ventilation apertures, section depth 625 mm For corner section				
	RSR66L	22279	RSR66LA	22277
Plinth connector To screw two plinths together, one above the other 4 pcs.				
	RZ5P4	46008	RZ5P4A	21621
Floor fastening for plinth For securing the plinth to the floor 4 pcs.				
	RZ3P4	46006		
Level adjustment for plinth 4 pcs.				
	RZ4P4	46007		

TriLine® PowerModules



TriLine® PowerModules

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Device mounting

Mounting frame



Panel width (PW)	Overall height (OH)	FLATPACK not mounted		MOUNTED installed in the cabinet	
		Type	Ord.-No.*	Type	Ord.-No.*
Mounting frame, section depth 625 mm For sections <u>without</u> a vertical cable area Incl. fastening material					
1	8	PMA186	22217	PMA186A	22213
1,5	8	PMA1586	20845	PMA1586A	20838
2	8	PMA286	20846	PMA286A	20839
2,5	8	PMA2586	20847	PMA2586A	20840
3	8	PMA386	20848	PMA386A	20841
3,5	8	PMA3586	20849	PMA3586A	20842
4	8	PMA486	20850	PMA486A	20843
Mounting frame, section depth 625 mm For sections <u>with</u> a vertical cable area Incl. fastening material					
4	8	PMB486	20851	PMB486A	20844
Mounting frame, section depth 625 mm For corner section Incl. fastening material					
	8	PMD866	22219	PMD866A	22215

Device mounting

Mounting set ABB T7 / X1

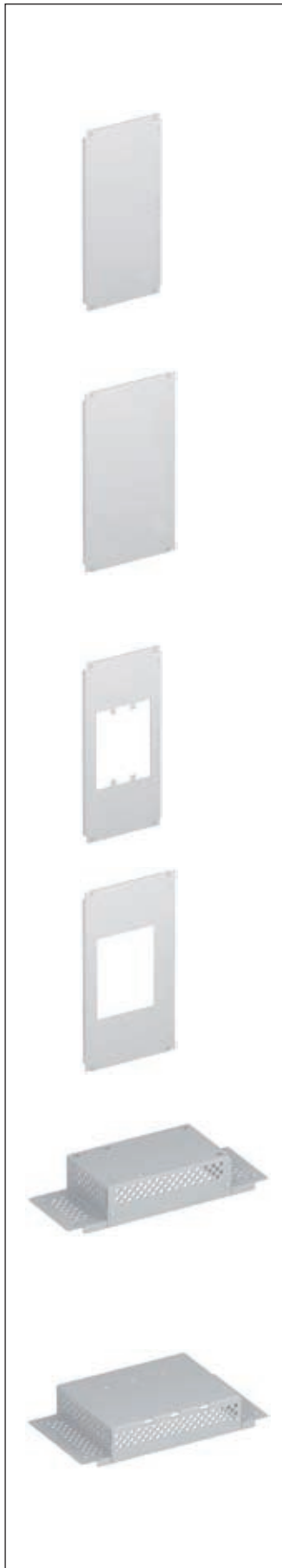
Mounting set outgoing section with vertical cable area

	Panel width (PW)	Overall height (OH)	FLATPACK not mounted		MOUNTED installed in the cabinet	
			Type	Ord.-No.*	Type	Ord.-No.*
	Mounting set for breaker ABB T7 / X1 One breaker positioned in the middle Incoming, outgoing, coupler sections Incl. fastening material					
	1,5		PMT151	20941	PMT151A	20936
	2		PMT21	22222	PMT21A	22220
	2,5		PMT251	20942	PMT251A	20937
	3		PMT31	20943	PMT31A	20938
4		PMT41	20944	PMT41A	20939	
	Mounting set for breaker ABB T7 / X1 Two breakers above one another positioned middle/top or middle/bottom For Incoming/coupler section combination Incl. fastening material					
	1,5		PMT152	20945	PMT152A	20940
	2		PMT22	22223	PMT22A	22221
	Mounting set for devices ABB SlimLine XR, and for compartments fixed with plugable contacts Incl. fastening material					
	4	8	PMM48	21432	PMM48A	21429
	Mounting set for compartments fixed for cable connection Incl. fastening material					
	4	8	PMS48	21433	PMS48A	21430

Device mounting

Mounting plate ABB T7 / X1

Mounting base Emax breaker



Panel width (PW)	Poles	Device	Device position	FLATPACK not mounted Type	Ord.-No.*	MOUNTED installed in the cabinet Type	Ord.-No.*
Mounting plate for ABB T7 / X1, fixed Incl. fastening material							
	3-pole		middle	PMT3G11	21350	PMT3G11A	21345
	3-pole		top / bottom	PMT3G13	21351	PMT3G13A	21346
Mounting plate for ABB T7 / X1, withdrawable Incl. fastening material							
	3-pole		middle	PMT3G31	21352	PMT3G31A	21347
	3-pole		top	PMT3G34	21353	PMT3G34A	21348
	3-pole		bottom	PMT3G35	21354	PMT3G35A	21349
Mounting plate universal As a reserve space for devices ABB T7 / X1, fixed Incl. fastening material							
			top / middle / bottom	PMT3G19	21628	PMT3G19A	21628
Mounting plate universal As a reserve space for devices ABB T7 / X1, withdrawable Incl. fastening material							
			top / middle / bottom	PMT3G39	21629	PMT3G39A	21629
Mounting base for ABB Emax, fixed Incl. fastening material							
2	3-pole	E2	middle	PME121	21333	PME121A	21321
2	3-pole	E2	top	PME124	21334	PME124A	21322
2	3-pole	E2	bottom	PME125	21335	PME125A	21323
3	3-pole	E3	mittig	PME131	21339	PME131A	21327
Mounting base for ABB Emax, withdrawable Incl. fastening material							
2	3-pole	E2	middle	PME321	21336	PME321A	21324
3	3-pole	E3	middle	PME331	21342	PME331A	21330

Cable fastening rail

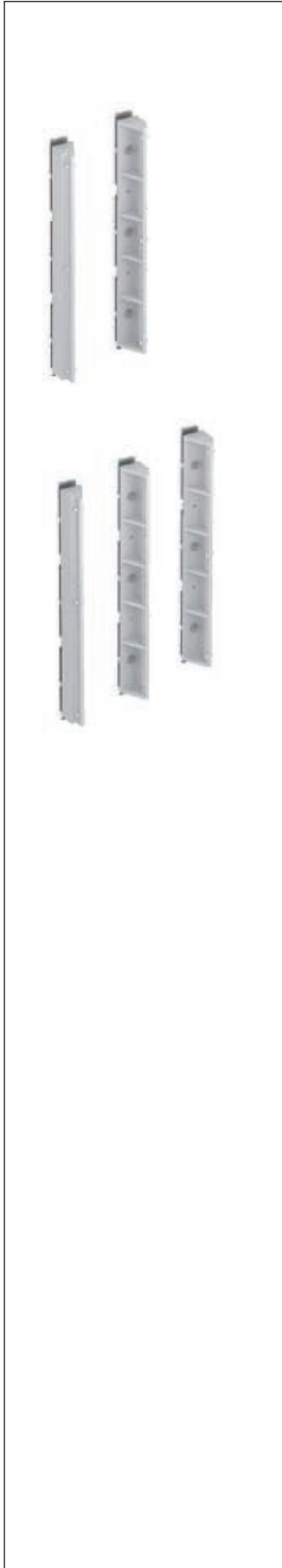
For horizontal or vertical cable area



		FLATPACK not mounted		MOUNTED installed in the cabinet	
Panel width (PW)	Overall height (OH)	Type	Ord.-No.*	Type	Ord.-No.*
Cable fastening rail for horizontal cable area					
Incl. fastening material					
1,5		PKA15	21241	PKA15A	21235
2		PKA2	21242	PKA2A	21236
2,5		PKA25	21243	PKA25A	21237
3		PKA3	21244	PKA3A	21238
3,5		PKA35	21245	PKA35A	21239
4		PKA4	21246	PKA4A	21240
Cable fastening rail for vertical cable area, section depth 625 mm					
Incl. fastening material					
	8	PKB64	21248	PKB64A	21247

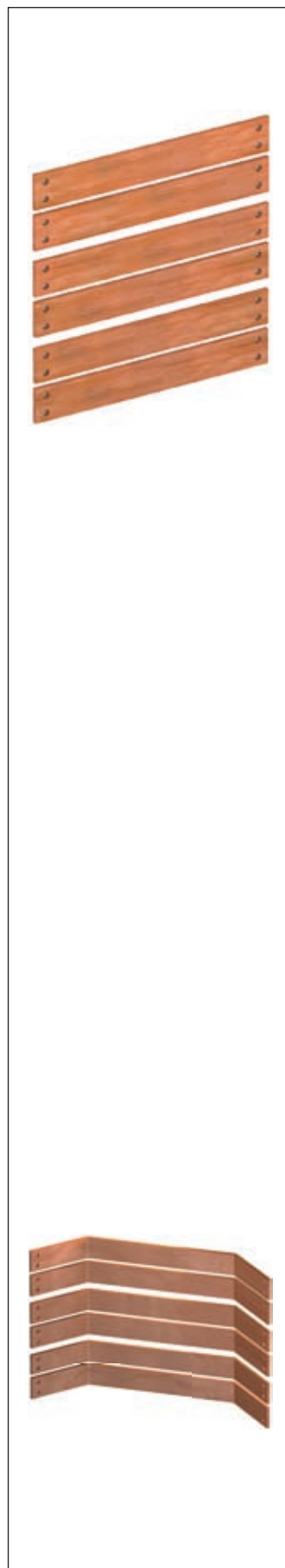
Main busbar system (MBB)

Holder set



Rated current (<i>I_n</i>) in A	Cu busbar dimensions in mm	Panel width (PW)	FLATPACK not mounted		MOUNTED installed in the cabinet	
			Type	Ord.-No.*	Type	Ord.-No.*
Main busbar system holder set, 3-pole, centre spacing 200 mm Busbar holders incl. clamps and fastening material MBB in the rear, top or bottom, standing arrangement 2 supports						
1000	2 x Cu 20 x 10	up to 3,5	PHH103R2	20210	PHH103R2A	20130
1250	2 x Cu 30 x 10	up to 3,5	PHH123R2	20212	PHH123R2A	20132
1600	2 x Cu 40 x 10	up to 3,5	PHH163R2	20214	PHH163R2A	20134
2000	2 x Cu 60 x 10	up to 3,5	PHH203R2	20216	PHH203R2A	20136
2500	2 x Cu 80 x 10	up to 3,5	PHH253R2	20218	PHH253R2A	20138
Main busbar system holder set, 3-pole, centre spacing 200 mm Busbar holders incl. clamps and fastening material MBB in the rear, top or bottom, standing arrangement 3 supports						
1000	2 x Cu 20 x 10	4 and corner section	PHH103R3	20220	PHH103R3A	20140
1250	2 x Cu 30 x 10	4 and corner section	PHH123R3	20222	PHH123R3A	20142
1600	2 x Cu 40 x 10	4 and corner section	PHH163R3	20224	PHH163R3A	20144
2000	2 x Cu 60 x 10	4 and corner section	PHH203R3	20226	PHH203R3A	20146
2500	2 x Cu 80 x 10	4 and corner section	PHH253R3	20228	PHH253R3A	20148

Main busbar system (MBB) Copper (Cu)



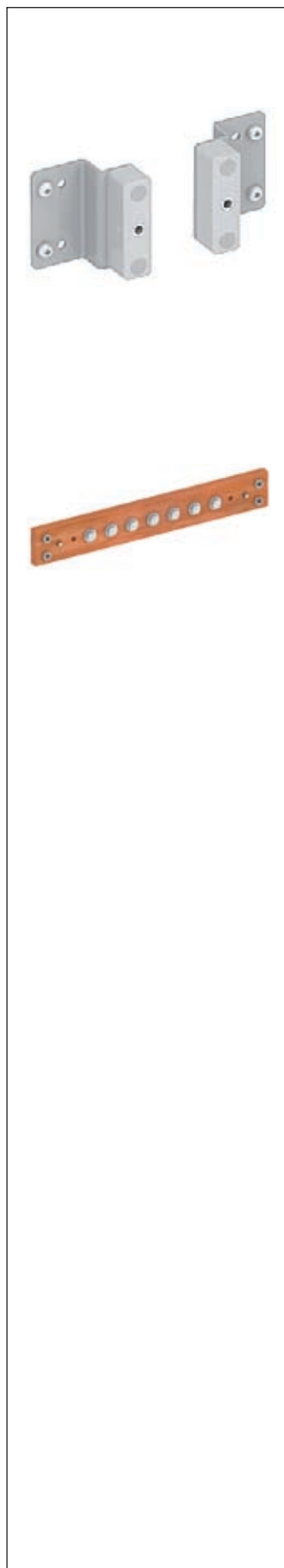
Rated current (I_N) in A	Cu busbar dimensions in mm	Panel width (PW)	FLATPACK not mounted		MOUNTED installed in the cabinet	
			Type	Ord.-No.*	Type	Ord.-No.*
Main busbar systems, copper, 3-pole MBB in the rear, top or bottom, standing arrangement						
1000	2 x Cu 20 x 10	1	PHC103R1	21906	PHC103R1A	21900
		1,5	PHC103R15	20230	PHC103R15A	20150
		2	PHC103R2	20231	PHC103R2A	20151
		2,5	PHC103R25	20232	PHC103R25A	20152
		3	PHC103R3	20233	PHC103R3A	20153
		3,5	PHC103R35	20234	PHC103R35A	20154
		4	PHC103R4	20235	PHC103R4A	20155
1250	2 x Cu 30 x 10	1	PHC123R1	21907	PHC123R1A	21901
		1,5	PHC123R15	20242	PHC123R15A	20162
		2	PHC123R2	20243	PHC123R2A	20163
		2,5	PHC123R25	20244	PHC123R25A	20164
		3	PHC123R3	20245	PHC123R3A	20165
		3,5	PHC123R35	20246	PHC123R35A	20166
		4	PHC123R4	20247	PHC123R4A	20167
1600	2 x Cu 40 x 10	1	PHC163R1	21908	PHC163R1A	21902
		1,5	PHC163R15	20254	PHC163R15A	20174
		2	PHC163R2	20255	PHC163R2A	20175
		2,5	PHC163R25	20256	PHC163R25A	20176
		3	PHC163R3	20257	PHC163R3A	20177
		3,5	PHC163R35	20258	PHC163R35A	20178
		4	PHC163R4	20259	PHC163R4A	20179
2000	2 x Cu 60 x 10	1	PHC203R1	21909	PHC203R1A	21903
		1,5	PHC203R15	20266	PHC203R15A	20186
		2	PHC203R2	20267	PHC203R2A	20187
		2,5	PHC203R25	20268	PHC203R25A	20188
		3	PHC203R3	20269	PHC203R3A	20189
		3,5	PHC203R35	20270	PHC203R35A	20190
		4	PHC203R4	20271	PHC203R4A	20191
2500	2 x Cu 80 x 10	1	PHC253R1	21910	PHC253R1A	21904
		1,5	PHC253R15	20278	PHC253R15A	20198
		2	PHC253R2	20279	PHC253R2A	20199
		2,5	PHC253R25	20280	PHC253R25A	20200
		3	PHC253R3	20281	PHC253R3A	20201
		3,5	PHC253R35	20282	PHC253R35A	20202
		4	PHC253R4	20283	PHC253R4A	20203
Main busbar systems, copper, 3-pole For corner section, section depth 625 mm MBB in the rear, top or bottom, standing arrangement						
1000	2 x Cu 20 x 10	PHC103R66	21872	PHC103R66A	21866	
1250	2 x Cu 30 x 10	PHC123R66	21873	PHC123R66A	21867	
1600	2 x Cu 40 x 10	PHC163R66	21874	PHC163R66A	21868	
2000	2 x Cu 60 x 10	PHC203R66	21875	PHC203R66A	21869	
2500	2 x Cu 80 x 10	PHC253R66	21876	PHC253R66A	21870	
Overview of cabinet/cabinet Cu busbar connectors, see page 4.14						

Overview of cabinet/cabinet Cu busbar connectors, see page 4-14

N busbar system horizontal

Holder set

Copper (Cu)

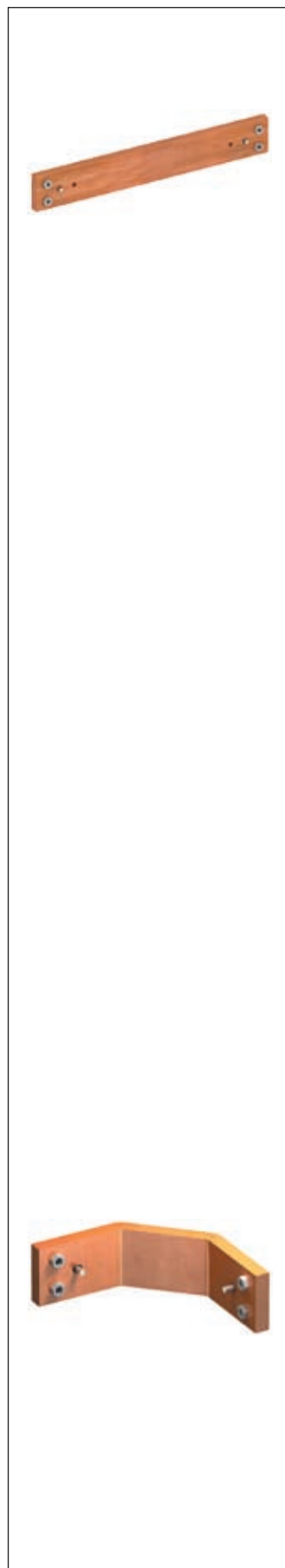


Rated current (I_p) in A	Cu busbar dimensions in mm	Possible cable connection, max. size in mm ²	Panel width (PW)	FLATPACK not mounted		MOUNTED installed in the cabinet	
				Type	Ord.-No.*	Type	Ord.-No.*
N busbar system holder set for horizontal cable area Busbar holders incl. mounting brackets and fastening material							
up to 2500	up to 2 x Cu 80 x 10		1,5 up to 4	PNNH2	20301	PNNH2A	20290

Overview of cabinet/cabinet Cu busbar connectors, see page 4-14

N busbar system horizontal

Copper (Cu)



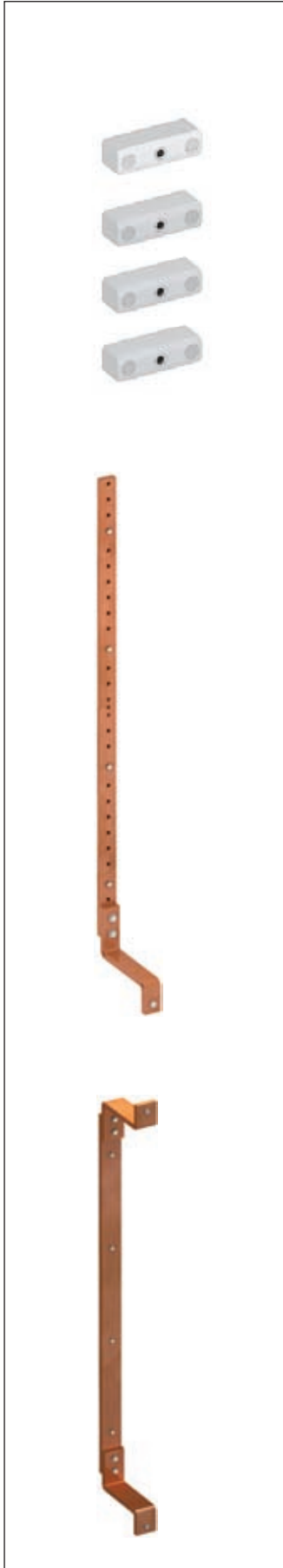
Rated current (I_p) in A	Cu busbar dimensions in mm	Panel width (PW)	FLATPACK not mounted		MOUNTED installed in the cabinet	
			Type	Ord.-No.*	Type	Ord.-No.*
N busbar system copper for horizontal cable area continuous (without terminal screws) Copper busbars incl. fastening material, Current capacity 100% of MBB phase conductors						
1000	2 x Cu 30 x 10	1	PNC12HD1	21934	PNC12HD1A	21917
		1,5	PNC12HD15	20587	PNC12HD15A	20648
		2	PNC12HD2	20588	PNC12HD2A	20649
		2,5	PNC12HD25	20589	PNC12HD25A	20650
		3	PNC12HD3	20590	PNC12HD3A	20651
		3,5	PNC12HD35	20591	PNC12HD35A	20652
		4	PNC12HD4	20592	PNC12HD4A	20653
1250	2 x Cu 30 x 10	1	PNC12HD1	21934	PNC12HD1A	21917
		1,5	PNC12HD15	20587	PNC12HD15A	20648
		2	PNC12HD2	20588	PNC12HD2A	20649
		2,5	PNC12HD25	20589	PNC12HD25A	20650
		3	PNC12HD3	20590	PNC12HD3A	20651
		3,5	PNC12HD35	20591	PNC12HD35A	20652
		4	PNC12HD4	20592	PNC12HD4A	20653
1600	2 x Cu 40 x 10	1,5	PNC16HD1	21935	PNC16HD1A	21918
		2	PNC16HD15	20593	PNC16HD15A	20654
		2,5	PNC16HD2	20594	PNC16HD2A	20655
		3	PNC16HD25	20595	PNC16HD25A	20656
		3,5	PNC16HD3	20596	PNC16HD3A	20657
		4	PNC16HD35	20597	PNC16HD35A	20658
			PNC16HD4	20598	PNC16HD4A	20659
2000	2 x Cu 60 x 10	1	PNC20HD1	21936	PNC20HD1A	21919
		1,5	PNC20HD15	20599	PNC20HD15A	20660
		2	PNC20HD2	20600	PNC20HD2A	20661
		2,5	PNC20HD25	20601	PNC20HD25A	20662
		3	PNC20HD3	20602	PNC20HD3A	20663
		3,5	PNC20HD35	20603	PNC20HD35A	20664
		4	PNC20HD4	20604	PNC20HD4A	20665
2500	2 x Cu 80 x 10	1	PNC25HD1	21937	PNC25HD1A	21920
		1,5	PNC25HD15	20605	PNC25HD15A	20666
		2	PNC25HD2	20606	PNC25HD2A	20667
		2,5	PNC25HD25	20607	PNC25HD25A	20668
		3	PNC25HD3	20608	PNC25HD3A	20669
		3,5	PNC25HD35	20609	PNC25HD35A	20670
		4	PNC25HD4	20610	PNC25HD4A	20671
N busbar system copper for corner section, section depth 625 mm continuous Copper busbars incl fastening material Current capacity 100% of MBB phase conductors						
1000	2 x Cu 30 x 10	PNC12D66	21990	PNC12D66A	21985	
1250	2 x Cu 30 x 10	PNC12D66	21990	PNC12D66A	21985	
1600	2 x Cu 40 x 10	PNC16D66	21991	PNC16D66A	21986	
2000	2 x Cu 60 x 10	PNC20D66	21992	PNC20D66A	21987	
2500	2 x Cu 80 x 10	PNC25D66	21993	PNC25D66A	21988	
Overview of cabinet/cabinet Cu busbar connectors, see page 4-14						

Overview of cabinet/cabinet Cu busbar connectors, see page 4-14

N busbar system vertical

Holder set

Copper (Cu)

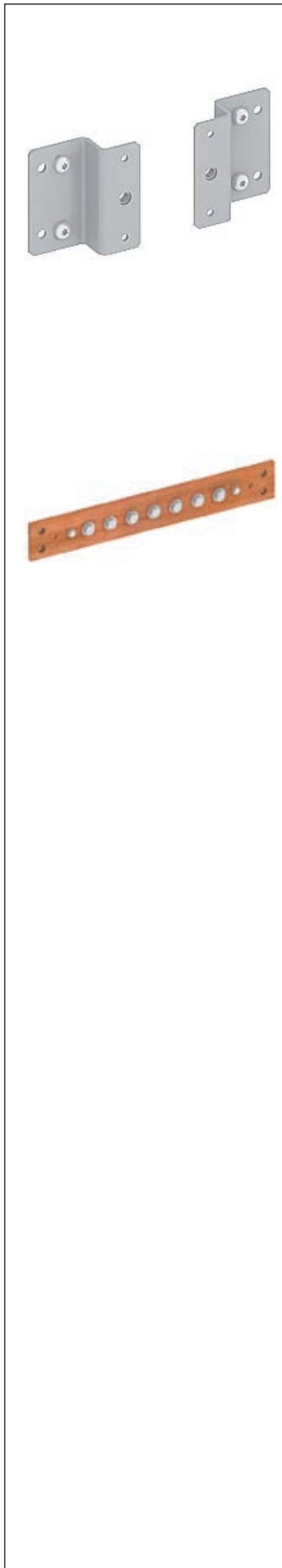


Rated current (I_n) in A	Cu busbar dimensions in mm	Possible cable connection, max. size in mm²	FLATPACK not mounted		MOUNTED installed in the cabinet	
			Type	Ord.-No.*	Type	Ord.-No.*
N busbar system holder set for vertical cable area, OH8 Busbar holders incl. fastening material up to 2500 up to 1 x Cu 100 x 10			PNHV4	20831	PNHV4A	20830
N busbar system copper for vertical cable area, OH8, section depth 625 mm MBB 3-pole / N separate in cable connection area Copper busbars incl. fastening material and terminal screws Current capacity 100% of DBB phase conductors			PNC12VA11	20824	PNC12VA11A	20816
1000	2 x Cu 30 x 10	20 x 240 (M10)				
1250	2 x Cu 30 x 10	20 x 240 (M10)				
1600	2 x Cu 40 x 10	20 x 240 (M10)				
2000	2 x Cu 50 x 10	20 x 240 (M10)				
			PNC12VA11	20824	PNC12VA11A	20816
			PNC16VA11	20826	PNC16VA11A	20818
			PNC20VA11	20828	PNC20VA11A	20820
			PNC12VU11	22193	PNC12VU11A	22188
N busbar system copper vertical for offset section OH8, section depth 625 mm MBB 3-pole Copper busbars incl. fastening material Current capacity 100% of MBB phase conductors						
1000	2 x Cu 30 x 10					
1250	2 x Cu 30 x 10					
1600	2 x Cu 40 x 10					
2000	2 x Cu 60 x 10					
2500	3 x Cu 80 x 10		PNC20VU11	22195	PNC20VU11A	22190
			PNC25VU11	22196	PNC25VU11A	22191

PE busbar system horizontal

Holder set

Copper (Cu)

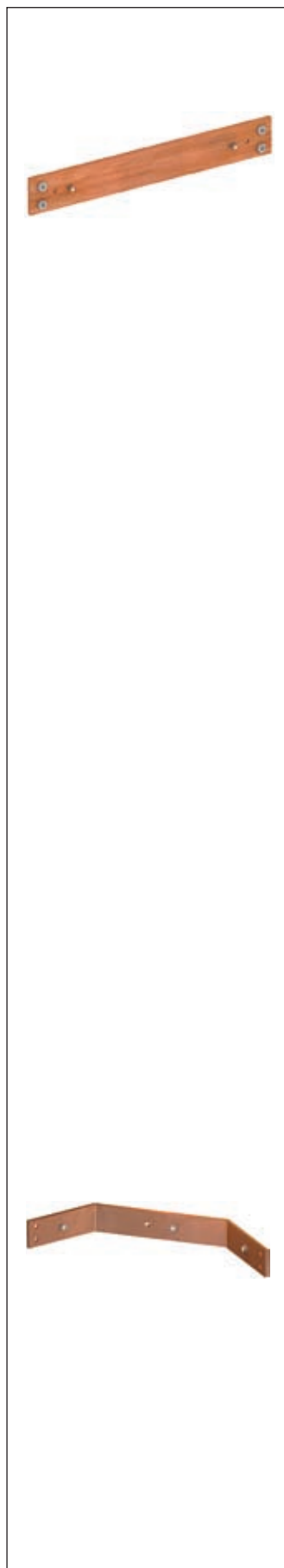


Rated current (<i>I_n</i>) in A	Cu busbars dimensions in mm	Possible cable connection, max. size in mm²	Panel width (PW)	FLATPACK not mounted		MOUNTED installed in the cabinet	
				Type	Ord.-No.*	Type	Ord.-No.*
PE busbar system holder set for horizontal cable area Mounting brackets incl. fastening material							
up to 2500	up to 1 x Cu 80 x 10		1,5 up to 4	PPHH2	20310	PPHH2A	20311
up to 2500	up to 1 x Cu 80 x 10		corner section	PPHH3	21865	PPHH3A	21864
PE busbar system copper for horizontal cable area Copper busbars incl. fastening material and terminal screws Current capacity 50% of MBB phase conductors							
1000	1 x Cu 30 x 10	4 x 240 (M10)	1,5	PPC12HK15	20678	PPC12HK15A	20740
		7 x 240 (M10)	2	PPC12HK2	20679	PPC12HK2A	20741
		10 x 240 (M10)	2,5	PPC12HK25	20680	PPC12HK25A	20742
		12 x 240 (M10)	3	PPC12HK3	20681	PPC12HK3A	20743
		15 x 240 (M10)	3,5	PPC12HK35	20682	PPC12HK35A	20744
		17 x 240 (M10)	4	PPC12HK4	20683	PPC12HK4A	20745
1250	1 x Cu 30 x 10	4 x 240 (M10)	1,5	PPC12HK15	20678	PPC12HK15A	20740
		7 x 240 (M10)	2	PPC12HK2	20679	PPC12HK2A	20741
		10 x 240 (M10)	2,5	PPC12HK25	20680	PPC12HK25A	20742
		12 x 240 (M10)	3	PPC12HK3	20681	PPC12HK3A	20743
		15 x 240 (M10)	3,5	PPC12HK35	20682	PPC12HK35A	20744
		17 x 240 (M10)	4	PPC12HK4	20683	PPC12HK4A	20745
1600	1 x Cu 40 x 10	4 x 240 (M10)	1,5	PPC16HK15	20684	PPC16HK15A	20746
		7 x 240 (M10)	2	PPC16HK2	20685	PPC16HK2A	20747
		10 x 240 (M10)	2,5	PPC16HK25	20686	PPC16HK25A	20748
		12 x 240 (M10)	3	PPC16HK3	20687	PPC16HK3A	20749
		15 x 240 (M10)	3,5	PPC16HK35	20688	PPC16HK35A	20750
		17 x 240 (M10)	4	PPC16HK4	20689	PPC16HK4A	20751
2000	1 x Cu 60 x 10	4 x 300 (M12)	1,5	PPC20HK15	20690	PPC20HK15A	20752
		7 x 300 (M12)	2	PPC20HK2	20691	PPC20HK2A	20753
		10 x 300 (M12)	2,5	PPC20HK25	20692	PPC20HK25A	20754
		12 x 300 (M12)	3	PPC20HK3	20693	PPC20HK3A	20755
		15 x 300 (M12)	3,5	PPC20HK35	20694	PPC20HK35A	20756
		17 x 300 (M12)	4	PPC20HK4	20695	PPC20HK4A	20757
2500	1 x Cu 80 x 10	4 x 300 (M12)	1,5	PPC25HK15	20696	PPC25HK15A	20758
		7 x 300 (M12)	2	PPC25HK2	20697	PPC25HK2A	20759
		10 x 300 (M12)	2,5	PPC25HK25	20698	PPC25HK25A	20760
		12 x 300 (M12)	3	PPC25HK3	20699	PPC25HK3A	20765
		15 x 300 (M12)	3,5	PPC25HK35	20700	PPC25HK35A	20766
		17 x 300 (M12)	4	PPC25HK4	20701	PPC25HK4A	20767
Overview of cabinet/cabinet Cu busbar connectors: see page 4.14							

Overview of cabinet/cabinet Cu busbar connectors, see page 4-14

PE busbar system horizontal

Copper (Cu)



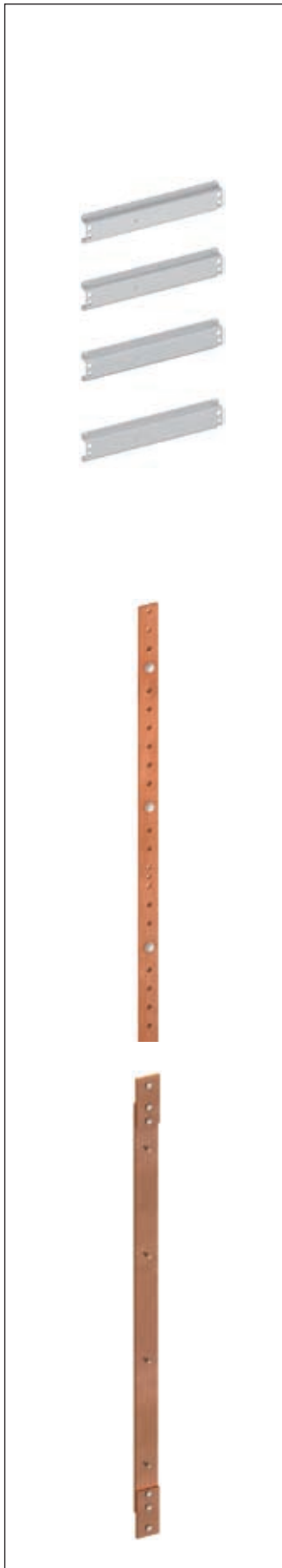
Rated current (I_N) in A	Cu busbar dimensions in mm	Panel width (PW)	FLATPACK not mounted		MOUNTED installed in the cabinet	
			Type	Ord.-No.*	Type	Ord.-No.*
PE busbar system copper for horizontal cable area continuous (without terminal screws) Copper busbars incl. fastening material, Current capacity 50% of MBB phase conductors						
1000	1 x Cu 30 x 10	1	PPC12HD1	21968	PPC12HD1A	21951
		1,5	PPC12HD15	20708	PPC12HD15A	20774
		2	PPC12HD2	20709	PPC12HD2A	20775
		2,5	PPC12HD25	20710	PPC12HD25A	20776
		3	PPC12HD3	20711	PPC12HD3A	20777
		3,5	PPC12HD35	20712	PPC12HD35A	20778
		4	PPC12HD4	20714	PPC12HD4A	20779
1250	1 x Cu 30 x 10	1	PPC12HD1	21968	PPC12HD1A	21951
		1,5	PPC12HD15	20708	PPC12HD15A	20774
		2	PPC12HD2	20709	PPC12HD2A	20775
		2,5	PPC12HD25	20710	PPC12HD25A	20776
		3	PPC12HD3	20711	PPC12HD3A	20777
		3,5	PPC12HD35	20712	PPC12HD35A	20778
		4	PPC12HD4	20714	PPC12HD4A	20779
1600	1 x Cu 40 x 10	1	PPC16HD1	21969	PPC16HD1A	21952
		1,5	PPC16HD15	20715	PPC16HD15A	20780
		2	PPC16HD2	20716	PPC16HD2A	20787
		2,5	PPC16HD25	20717	PPC16HD25A	20788
		3	PPC16HD3	20718	PPC16HD3A	20789
		3,5	PPC16HD35	20719	PPC16HD35A	20790
		4	PPC16HD4	20720	PPC16HD4A	20791
2000	1 x Cu 60 x 10	1	PPC20HD1	21970	PPC20HD1A	21953
		1,5	PPC20HD15	20721	PPC20HD15A	20792
		2	PPC20HD2	20722	PPC20HD2A	20793
		2,5	PPC20HD25	20723	PPC20HD25A	20794
		3	PPC20HD3	20724	PPC20HD3A	20795
		3,5	PPC20HD35	20725	PPC20HD35A	20796
		4	PPC20HD4	20726	PPC20HD4A	20797
2500	1 x Cu 80 x 10	1	PPC25HD1	21971	PPC25HD1A	21954
		1,5	PPC25HD15	20727	PPC25HD15A	20798
		2	PPC25HD2	20728	PPC25HD2A	20799
		2,5	PPC25HD25	20729	PPC25HD25A	20800
		3	PPC25HD3	20730	PPC25HD3A	20801
		3,5	PPC25HD35	20731	PPC25HD35A	20802
		4	PPC25HD4	20733	PPC25HD4A	20803
PE busbar system copper for corner section Copper busbars continuous incl. fastening material, Current capacity 50% of MBB phase conductors						
1000	1 x Cu 30 x 10		PPC12D66	22000	PPC12D66A	21995
1250	1 x Cu 30 x 10		PPC12D66	22000	PPC12D66A	21995
1600	1 x Cu 40 x 10		PPC16D66	22001	PPC16D66A	21996
2000	1 x Cu 60 x 10		PPC20D66	22002	PPC20D66A	21997
2500	1 x Cu 80 x 10		PPC25D66	22003	PPC25D66A	21998
Overview of cabinet/cabinet-Cu busbar connectors, see page 4-14						

Overview of cabinet/cabinet Cu busbar connectors, see page 4-14

PE busbar system vertical

Holder set

Copper (Cu)



Rated current (I_n) in A	For Cu busbars Dimensions in mm	Possible cable connection, max. size in mm²	FLATPACK not mounted		MOUNTED installed in the cabinet	
			Type	Ord.-No.*	Type	Ord.-No.*
PE busbar system holder set for vertical cable area, OH 8, 4 panel wide Mounting brackets incl. fastening material						
up to 2500	up to 1 x Cu 100 x 10		PPHV44	20813	PPHV44A	20812
PE busbar system holder set for offst sections, OH8, section depth 625 mm Mounting brackets incl. fastening material						
up to 2500	up to 1 x Cu 60 x 10	1	PPHV41	22310	PPHV41A	22308
up to 2500	up to 1 x Cu 60 x 10	2	PPHV42	22311	PPHV42A	22309
PE busbar system copper for vertical cable area, OH8, section depth 625 mm Copper busbars incl. fastening material and terminal screws Current capacity 50% of DBB phase conductors						
1000	1 x Cu 30 x 10	18 x 240 (M10)	PPC12VA11	20809	PPC12VA11A	20805
1250	1 x Cu 30 x 10	18 x 240 (M10)	PPC12VA11	20809	PPC12VA11A	20805
1600	1 x Cu 40 x 10	18 x 240 (M10)	PPC16VA11	20810	PPC16VA11A	20806
2000	1 x Cu 50 x 10	18 x 240 (M10)	PPC20VA11	20811	PPC20VA11A	20807
PE busbar system copper vertical, for offst sections, OH8, section depth 625 mm Copper busbars incl. fastening material and terminal screws Current capacity 50% of MBB phase conductors						
1000	1 x Cu 30 x 10		PPC12VU11	22203	PPC12VU11A	22198
1250	1 x Cu 30 x 10		PPC12VU11	22203	PPC12VU11A	22198
1600	1 x Cu 40 x 10		PPC16VU11	22204	PPC16VU11A	22199
2000	1 x Cu 60 x 10		PPC20VU11	22205	PPC20VU11A	22200
2500	2 x Cu 40 x 10		PPC25VU11	22206	PPC25VU11A	22201

Terminal busbar system (TBB)

Cross member set

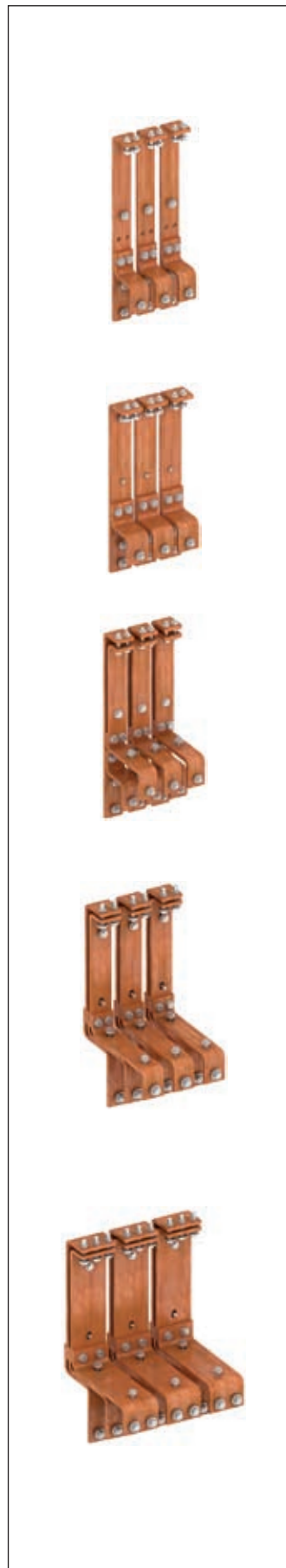
Holder set



Panel width (PW)	Rated current (I _n) in A	Cu busbars dimensions in mm	Device version	FLATPACK not mounted		MOUNTED installed in the cabinet	
				Type	Ord.-No.*	Type	Ord.-No.*
TBB cross member set Support for the TBB holder set				PAT15 PAT2 PAT25 PAT3 PAT35 PAT4	20952 20953 20954 20955 20956 20957	PAT15A PAT2A PAT25A PAT3A PAT35A PAT4A	20946 20947 20948 20949 20950 20951
1,5							
2							
2,5							
3							
3,5							
4							
TBB holder set, 3-pole For devices ABB T7 / X1				PAH0131 PAH0121	20369 20368	PAH0131A PAH0121A	20375 20374
1000	1 x Cu 50 x 10	fixed withdrawable					
1250	1 x Cu 60 x 10	fixed withdrawable					
1600	2 x Cu 50 x 10	fixed withdrawable	PAH0141 PAH0131	20370 20369	PAH0141A PAH0131A	20376 20375	
TBB holder set, 3-pole For devices ABB E2				PAH0341 PAH0341	20372 20372	PAH0341A PAH0341A	20378 20378
2000	2 x Cu 60 x 10	fixed withdrawable					
TBB holder set, 3-pole For devices ABB E3				PAH0441 PAH0441	20373 20373	PAH0441A PAH0441A	20379 20379
2500	2 x Cu 100 x 10	fixed withdrawable					

Terminal busbar system (TBB)

Copper (Cu)



Rated current (I_n) in A	Cu busbars Dimensions in mm	Possible cable connection, max. size in mm ²	Circuit breaker type	FLATPACK not mounted		MOUNTED installed in the cabinet	
				Type	Ord.-No.*	Type	Ord.-No.*
TBB copper, 3-pole * ³ For devices ABB T7 / X1 Copper busbars incl. fastening material and terminal screws							
1000	1 x Cu 50 x 10	4 x 240 (M10)	fixed withdrawable	PAC1031G1 PAC1031G3	20380 20381	PAC1031G1A PAC1031G3A	20390 20391
1250	1 x Cu 60 x 10	4 x 240 (M10)	fixed withdrawable	PAC1231G1 PAC1231G3	20382 20383	PAC1231G1A PAC1231G3A	20392 20393
1600	2 x Cu 50 x 10	6 x 240 (M10)	fixed withdrawable	PAC1631G1 PAC1631G3	20384 20385	PAC1631G1A PAC1631G3A	20394 20395
TBB copper, 3-pole * ³ For devices ABB E2 Copper busbars incl. fastening material and terminal screws							
2000	2 x Cu 60 x 10	6 x 300 (M12)	fixed withdrawable	PAC2031I1 PAC2031I3	20386 20387	PAC2031I1A PAC2031I3A	20396 20397
TBB copper, 3-pole * ³ For devices ABB E3 Copper busbars incl. fastening material and terminal screws							
2500	2 x Cu 100 x 10	12 x 300 (M12)	fixed withdrawable	PAC2531J1 PAC2531J3	20388 20389	PAC2531J1A PAC2531J3A	20398 20399
* ³ For information regarding the installation of current transformers, see page 5-16							

Distribution busbar system (DBB) horizontal

Holder set

Copper (Cu)



Rated current (I_n) in A	Cu busbars dimensions in mm	Panel width (PW)	FLATPACK not mounted		MOUNTED installed in the cabinet	
			Type	Ord.-No.*	Type	Ord.-No.*
DBB holder set horizontal (Devices vertical) Holder set incl. fastening material For switch disconnectors with NH-fuses, ABB XR						
1250	1 x Cu 30 x 10	2	PVH12HM2	20293	PVH12HM2A	20316
		3	PVH12HM3	20294	PVH12HM3A	20317
1600	1 x Cu 40 x 10	2	PVH16HM2	20295	PVH16HM2A	20318
		3	PVH16HM3	20296	PVH16HM3A	20319
2000	1 x Cu 60 x 10	2	PVH20HM2	20297	PVH20HM2A	20320
		3	PVH20HM3	20298	PVH20HM3A	20321
DBB copper horizontal (Devices vertical) For switch disconnectors with NH-fuses,						
1250	1 x Cu 60 x 10	2	PVC123HL2	20345	PVC123HL2A	20362
		3	PVC123HL3	20347	PVC123HL3A	20363
1600	1 x Cu 80 x 10	2	PVC163HL2	20348	PVC163HL2A	20364
		3	PVC163HL3	20349	PVC163HL3A	20365
2000	1 x Cu 100 x 10	2	PVC203HL2	20350	PVC203HL2A	20366
		3	PVC203HL3	20351	PVC203HL3A	20367

Distribution busbar system (DBB) horizontal

Holder set

Copper (Cu)

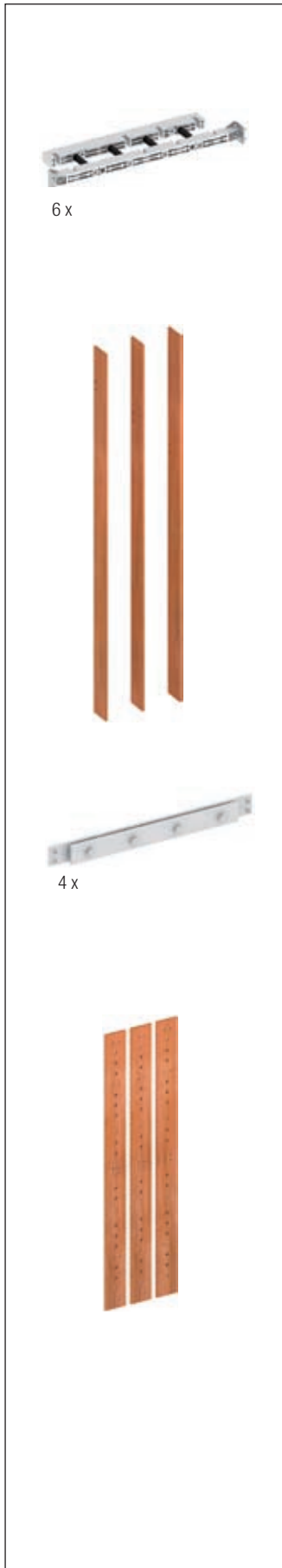


Rated current (I_n) in A	Cu busbars Dimensions in mm	Panel width (PW)	FLATPACK not mounted		MOUNTED installed in the cabinet	
			Type	Ord.-No.*	Type	Ord.-No.*
DBB holder set horizontal (Devices vertical) Holder set incl. fastening material For NH-fuse switch disconnectors, ABB InLine						
up to 2000	up to 1 x Cu 60 x 10	up to 3	PVH20HN	20308	PVH20HNA	20330
DBB copper horizontal (Devices vertical) Copper busbars incl. fastening material For NH-fuse switch disconnectors ABB InLine / Jean Müller SL						
1000	1 x Cu 50 x 10	2	PVC103HS2	20332	PVC103HS2A	20352
		3	PVC103HS3	20333	PVC103HS3A	20353
1250	1 x Cu 60 x 10	2	PVC123HS2	20334	PVC123HS2A	20354
		3	PVC123HS3	20335	PVC123HS3A	20355
1600	1 x Cu 80 x 10	2	PVC163HS2	20336	PVC163HS2A	20356
		3	PVC163HS3	20337	PVC163HS3A	20357
2000	1 x Cu 100 x 10	2	PVC203HS2	20338	PVC203HS2A	20358
		3	PVC203HS3	20342	PVC203HS3A	20359

Distribution busbar system (DBB) vertical

Holder set

Copper (Cu)



			FLATPACK not mounted		MOUNTED installed in the cabinet	
Rated current (I _n) in A	Cu busbars dimensions in mm	Support- points	Type	Ord.-No.*	Type	Ord.-No.*
DBB holder set vertical (Devices horizontal) Holder set incl. fastening material For switch disconnector fuses ABB XR and compartment fixed with plugable contacts						
1250	1 x Cu 60 x 10	6	PVH12VM6	21470	PVH12VM6A	21463
1600	1 x Cu 80 x 10	6	PVH16VM6	21471	PVH16VM6A	21464
2000	1 x Cu 100 x 10	6	PVH20VM6	21472	PVH20VM6A	21465
DBB copper vertical (Devices horizontal), OH8 For switch disconnector fuses ABB XR and compartment fixed with plugable contacts						
1250	1 x Cu 60 x 10		PVC123VS8	21460	PVC123VS8A	21453
1600	1 x Cu 80 x 10		PVC163VS8	21461	PVC163VS8A	21454
2000	1 x Cu 100 x 10		PVC203VS8	21462	PVC203VS8A	21455
DBB holder set vertical (Devices horizontal) Holder set incl. fastening material For compartment fixed, for cable connection						
up to 2000	up to 1 x Cu 100 x 10	4	PVH20VS4	21476	PVH20VS4A	21469
DBB copper vertical (Devices horizontal), OH8 For compartment fixed, for cable connection						
1000	1 x Cu 40 x 10		PVC103VL8	21456	PVC103VL8A	21449
1250	1 x Cu 60 x 10		PVC123VL8	21457	PVC123VL8A	21450
1600	1 x Cu 80 x 10		PVC163VL8	21458	PVC163VL8A	21451
2000	1 x Cu 100 x 10		PVC203VL8	21459	PVC203VL8A	21452

Connecting busbar system (CBB)

Main busbar system - Circuit breaker (MBB - CB)

Holder set



Rated current (<i>I_n</i>) in A	Cu busbars dimensions in mm	Arrangement MBB to CBB	Device position	Device version	FLATPACK not mounted		MOUNTED installed in the cabinet	
					Type	Ord.-No.*	Type	Ord.-No.*
Connection to the MBB in the rear, top or bottom, standing arrangement, 3-pole For devices ABB T7 / X1								
1000	1 x Cu 50 x 10	opposite opposite	middle middle	fixed withdrawable	PWH013R	20416	PWH013RA	20430
					PWH012R	20415	PWH012RA	20429
		same side same side	middle middle	fixed withdrawable	PWH014R	20417	PWH014RA	20431
					PWH013R	20416	PWH013RA	20430
		opposite opposite	top / bottom top / bottom	fixed withdrawable	PWH012R	20415	PWH012RA	20429
					PWH012R	20415	PWH012RA	20429
1250	1 x Cu 60 x 10	opposite opposite	middle middle	fixed withdrawable	PWH023R	20420	PWH023RA	20434
					PWH022R	20419	PWH022RA	20433
		same side same side	middle middle	fixed withdrawable	PWH024R	20421	PWH024RA	20435
					PWH023R	20420	PWH023RA	20434
		opposite opposite	top / bottom top / bottom	fixed withdrawable	PWH022R	20419	PWH022RA	20433
					PWH022R	20419	PWH022RA	20433
1600	2 x Cu 50 x 10	opposite opposite	middle middle	fixed withdrawable	PWH013R	20416	PWH013RA	20430
					PWH012R	20415	PWH012RA	20429
		same side same side	middle middle	fixed withdrawable	PWH014R	20417	PWH014RA	20431
					PWH013R	20416	PWH013RA	20430
		opposite opposite	top / bottom top / bottom	fixed withdrawable	PWH012R	20415	PWH012RA	20429
					PWH012R	20415	PWH012RA	20429

Connecting busbar system (CBB)

Main busbar system - Circuit breaker (MBB - CB)

Holder set



Rated current (I_n) in A	Cu busbars dimensions in mm	Arrangement MBB to CBB	Device position	Device version	FLATPACK not mounted		MOUNTED installed in the cabinet	
					Type	Ord.-No.*	Type	Ord.-No.*
Connection to the MBB in the rear, top or bottom, standing arrangement, 3-pole For devices ABB E2								
2000	2 x Cu 60 x 10	opposite opposite	middle middle	fixed withdrawable	PWH033R PWH032R	20424 20423	PWH033RA PWH032RA	20438 20437
		same side	middle	fixed	PWH033R	20424	PWH033RA	20438
		opposite	top / bottom	fixed	PWH051R	20427	PWH051RA	20441
Connection to the MBB in the rear, top or bottom, standing arrangement, 3-pole For devices ABB E3								
2500	2 x Cu 100 x 10	opposite opposite	middle middle	fixed withdrawable	PWH043R PWH042R	20426 20425	PWH043RA PWH042RA	20440 20439
		same side	middle	fixed	PWH043R	20426	PWH043RA	20440

Connecting busbar system (CBB)

Main busbar system - Circuit breaker (MBB - CB)

Copper (Cu)



Rated current (<i>I_n</i>) in A	Cu busbars dimensions in mm	Arrangement MBB to CBB	Device position	Device version	FLATPACK not mounted		MOUNTED installed in the cabinet	
					Type	Ord.-No.*	Type	Ord.-No.*
Connection to the MBB in the rear, top or bottom, standing arrangement, 3-pole (Section depth 625 mm)* ³ For devices ABB T7 / X1 Copper busbars incl. fastening material and connecting screws for device								
1000	1 x Cu 50 x 10	opposite opposite	middle middle	fixed withdrawable	PWC103RGB PWC103RGS	20469 20472	PWC103RGBA PWC103RGSA	20499 20502
					PWC103RGC PWC103RGT	20470 20473	PWC103RGCA PWC103RGTA	20500 20503
		same side same side	middle middle	fixed withdrawable	PWC103RGC PWC103RGT	20470 20473	PWC103RGCA PWC103RGTA	20500 20503
					PWC103RGB PWC103RGS	20469 20472	PWC103RGBA PWC103RGSA	20499 20502
		opposite opposite	top / bottom top / bottom	fixed withdrawable	PWC103RGB PWC103RGU	20471 20474	PWC103RGDA PWC103RGUA	20501 20504
					PWC103RGC PWC103RGT	20470 20473	PWC103RGCA PWC103RGTA	20500 20503
1250	1 x Cu 60 x 10	opposite opposite	middle middle	fixed withdrawable	PWC123RGB PWC123RGS	20475 20478	PWC123RGBA PWC123RGSA	20505 20508
					PWC123RGC PWC123RGT	20476 20479	PWC123RGCA PWC123RGTA	20506 20509
		same side same side	middle middle	fixed withdrawable	PWC123RGC PWC123RGT	20476 20479	PWC123RGCA PWC123RGTA	20506 20509
					PWC123RGB PWC123RGS	20475 20478	PWC123RGBA PWC123RGSA	20505 20508
		opposite opposite	top / bottom top / bottom	fixed withdrawable	PWC123RGB PWC123RGU	20477 20480	PWC123RGDA PWC123RGUA	20507 20510
					PWC123RGC PWC123RGT	20476 20479	PWC123RGCA PWC123RGTA	20506 20509
1600	2 x Cu 50 x 10	opposite opposite	mittig mittig	fixed withdrawable	PWC163RGB PWC163RGS	20486 20489	PWC163RGBA PWC163RGSA	20512 20515
					PWC163RGC PWC163RGT	20487 20490	PWC163RGCA PWC163RGTA	20513 20516
		same side same side	mittig mittig	fixed withdrawable	PWC163RGC PWC163RGT	20487 20490	PWC163RGCA PWC163RGTA	20513 20516
					PWC163RGB PWC163RGS	20486 20489	PWC163RGBA PWC163RGSA	20512 20515
		opposite opposite	top / bottom top / bottom	fixed withdrawable	PWC163RGB PWC163RGU	20488 20491	PWC163RGDA PWC163RGUA	20514 20517
					PWC163RGC PWC163RGT	20487 20490	PWC163RGCA PWC163RGTA	20513 20516
*3 For information regarding the installation of current transformers, see page 5-19.								

*³ For information regarding the installation of current transformers, see page 5-18

Connecting busbar system (CBB)

Main busbar system - Circuit breaker (MBB - CB)

Copper (Cu)



Rated current (<i>I_n</i>) in A	Cu busbars dimensions in mm	Arrangement MBB to CBB	Device position	Device version	FLATPACK not mounted		MOUNTED installed in the cabinet	
					Type	Ord.-No.*	Type	Ord.-No.*
Connection to the MBB in the rear, top or bottom, standing arrangement, 3-pole (Section depth 625 mm)*³ For devices ABB E2 Copper busbars incl. fastening material and connecting screws for device								
2000	2 x Cu 60 x 10	opposite opposite	middle middle	fixed withdrawable	PWC203RIB	20492	PWC203RIBA	20518
					PWC203RIS	20495	PWC203RISA	20521
		same side	middle	fixed	PWC203RIC	20493	PWC203RICA	20519
					PWC203RID	20494	PWC203RIDA	20520
		opposite	top / bottom	fixed				
Connection to the MBB in the rear, top or bottom, standing arrangement, 3-pole (Section depth 625 mm)*³ For devices ABB E3 Copper busbars incl. fastening material and connecting screws for device								
2500	2 x Cu 100 x 10	opposite opposite	middle middle	fixed withdrawable	PWC253RJB	20496	PWC253RJBA	20522
					PWC253RJS	20498	PWC253RJSA	20524
		same side	middle	fixed	PWC253RJC	20497	PWC253RJCA	20523

^{*3} For information regarding the installation of current transformers, see page 5-19.

*³ For information regarding the installation of current transformers, see page 5-18

Connecting busbar system (CBB)

Main busbar system - Circuit breaker (MBB - CB)

Attachment



			FLATPACK not mounted		MOUNTED installed in the cabinet	
Rated current (I_n) in A	Length Cu-spacer in mm	Quantity Cu-spacers	Type	Ord.-No.*	Type	Ord.-No.*
Attachment of the connecting busbar system (MBB - CB), 3-pole For devices ABB T7 / X1 Cu-spacer incl. threaded plate and fastening material						
1000	40	3	PWA40311	20442	PWA40311A	20447
1250	40	3	PWA40311	20442	PWA40311A	20447
1600	40	3	PWA40312	20443	PWA40312A	20448
Attachment of the connecting busbar system (MBB - CB), 3-pole For devices ABB E2 Cu-spacer incl. threaded plate and fastening material						
2000	40	3	PWA40312	20443	PWA40312A	20448
Attachment of the connecting busbar system (MBB - CB), 3-pole For devices ABB E3 Cu-spacer incl. threaded plate and fastening material						
2500	40	6	PWA40612	20445	PWA40612A	20450

Connecting busbar system (CBB)

Circuit breaker - Circuit breaker (CB - CB)

Holder set



Rated current (<i>I_n</i>) in A	Cu busbars per pole dimensions in mm	Device version	FLATPACK not mounted		MOUNTED installed in the cabinet	
			Type	Ord.-No.*	Type	Ord.-No.*
For Incoming / Coupler section combinations, 3-pole For devices ABB T7 / X1						
1000	1 x Cu 50 x 10	fixed / withdrawable	PWH011R	20414	PWH011RA	20428
1250	1 x Cu 60 x 10	fixed / withdrawable	PWH021R	20418	PWH021RA	20432
1600	2 x Cu 50 x 10	fixed / withdrawable	PWH011R	20414	PWH011RA	20428
For Incoming / Coupler section combinations, 3-pole For devices ABB E2						
2000	2 x Cu 60 x 10	fixed	PWH031R	20422	PWH031RA	20436

Connecting busbar system (CBB)

Circuit breaker - Circuit breaker (CB - CB)

Copper (Cu)

	Rated current (<i>I_n</i>) in A	Cu busbars per pole, dimensions in mm	Device version	FLATPACK not mounted		MOUNTED installed in the cabinet	
				Type	Ord.-No.*	Type	Ord.-No.*
	For Incoming / Coupler section combinations, 3-pole*³ For devices ABB T7 / X1 Copper busbars incl. fastening material and connecting screws for device						
	1000	1 x Cu 50 x 10	fixed withdrawable	PUC103G1 PUC103G3	20452 20453	PUC103G1A PUC103G3A	20459 20460
	1250	1 x Cu 60 x 10	fixed withdrawable	PUC123G1 PUC123G3	20454 20455	PUC123G1A PUC123G3A	20464 20465
	1600	2 x Cu 50 x 10	fixed withdrawable	PUC163G1 PUC163G3	20456 20457	PUC163G1A PUC163G3A	20466 20467
	For Incoming / Coupler section combinations, 3-pole*³ For devices ABB E2 Copper busbars incl. fastening material and connecting screws for device						
	2000	2 x Cu 60 x 10	fixed	PUC203I1	20458	PUC203I1A	20468

*³ For information regarding the installation of current transformers, see page 5.17.

*³ For information regarding the installation of current transformers, see page 5-17

Connecting busbar system (CBB)

Main busbar system - Distribution busbar system (MBB - DBB)

Holder set / Copper (Cu)

Attachment



Rated current (<i>I_n</i>) in A	Cu busbars dimensions in mm	Length Cu-spacer in mm	Quantaty Cu-spacers	FLATPACK not mounted		MOUNTED installed in the cabinet	
				Type	Ord.-No.*	Type	Ord.-No.*
Connection to the horizontal DBB, 3-pole (Section depth 625 mm) For devices ABB InLine				PWHH062	20525	PWHH062A	20526
up to 2000	up to 1 x Cu 100 x 10						
Connection to the horizontal DBB, 3-pole (Section depth 625 mm) For devices ABB SlimLine XR				PWHH062	20525	PWHH062A	20526
up to 2000	up to 1 x Cu 100 x 10						
Connection to the horizontal DBB, 3-pole (Section depth 625 mm) For devices ABB InLine Incl. fastening material				PWC103HN1 PWC123HN1 PWC163HN1 PWC203HN1	20528 20531 20534 20537	PWC103HN1A PWC123HN1A PWC163HN1A PWC203HN1A	20540 20543 20546 20549
1000	1 x Cu 50 x 10						
1250	1 x Cu 60 x 10						
1600	1 x Cu 80 x 10						
2000	1 x Cu 100 x 10						
Connection to the horizontal DBB, 3-pole (Section depth 625 mm) For devices ABB SlimLine XR Incl. fastening material				PWC123HM1 PWC163HM1 PWC203HM1	20530 20533 20536	PWC123HM1A PWC163HM1A PWC203HM1A	20542 20545 20548
1250	1 x Cu 60 x 10						
1600	1 x Cu 80 x 10						
2000	1 x Cu 100 x 10						

Connecting busbar system (CBB)

Main busbar system - distribution busbar system (MBB - DBB)
Connecting busbar system - Conn. busbar system (CBB -CBB)
Attachment / Copper (Cu)

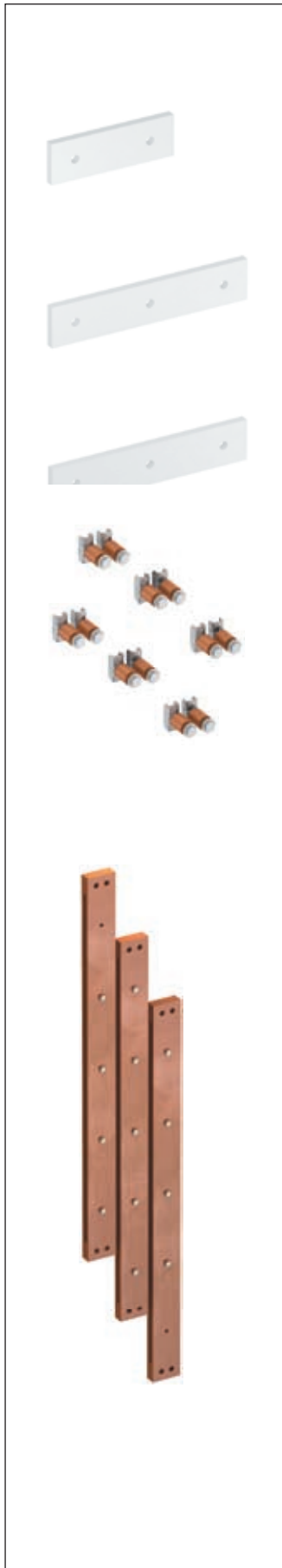


Rated current (<i>I_n</i>) in A	Cu busbars dimensions in mm	FLATPACK not mounted		MOUNTED installed in the cabinet	
		Type	Ord.-No.*	Type	Ord.-No.*
Attachment of the connecting busbar system (MBB - DBB), 3-pole For devices ABB SlimLine / InLine Cu-spacer incl. threaded plate and fastening material					
1000 up to 1600	403				
2000	406				
Attachment of the connecting busbar system (CBB - CBB), 3-pole For switch disconnector fuses ABB InLine Cu-spacer incl. fastening material					
1000 up to 1600	303				
Connection to the vertical DBB, 3 pole , section depth 625 mm For switch disconnector fuse ABB XR and compartment fixed with plugable contacts Incl. fastening material					
1250	1 x Cu 60 x 10	PWC123VM6	21443	PWC123VM6A	21436
1600	1 x Cu 80 x 10	PWC163VM6	21445	PWC163VM6A	21438
2000	1 x Cu 100 x 10	PWC203VM6	21447	PWC203VM6A	21440
Connection to the vertical DBB, 3 pole , section depth 625 mm For compartment fixed, for cable connection Incl. fastening material					
1000	1 x Cu 50 x 10	PWC103VS6	21442	PWC103VS6A	21435
1250	1 x Cu 60 x 10	PWC123VS6	21444	PWC123VS6A	21437
1600	1 x Cu 80 x 10	PWC163VS6	21446	PWC163VS6A	21439
2000	1 x Cu 100 x 10	PWC203VS6	21448	PWC203VS6A	21441

Connecting busbar system (CBB)

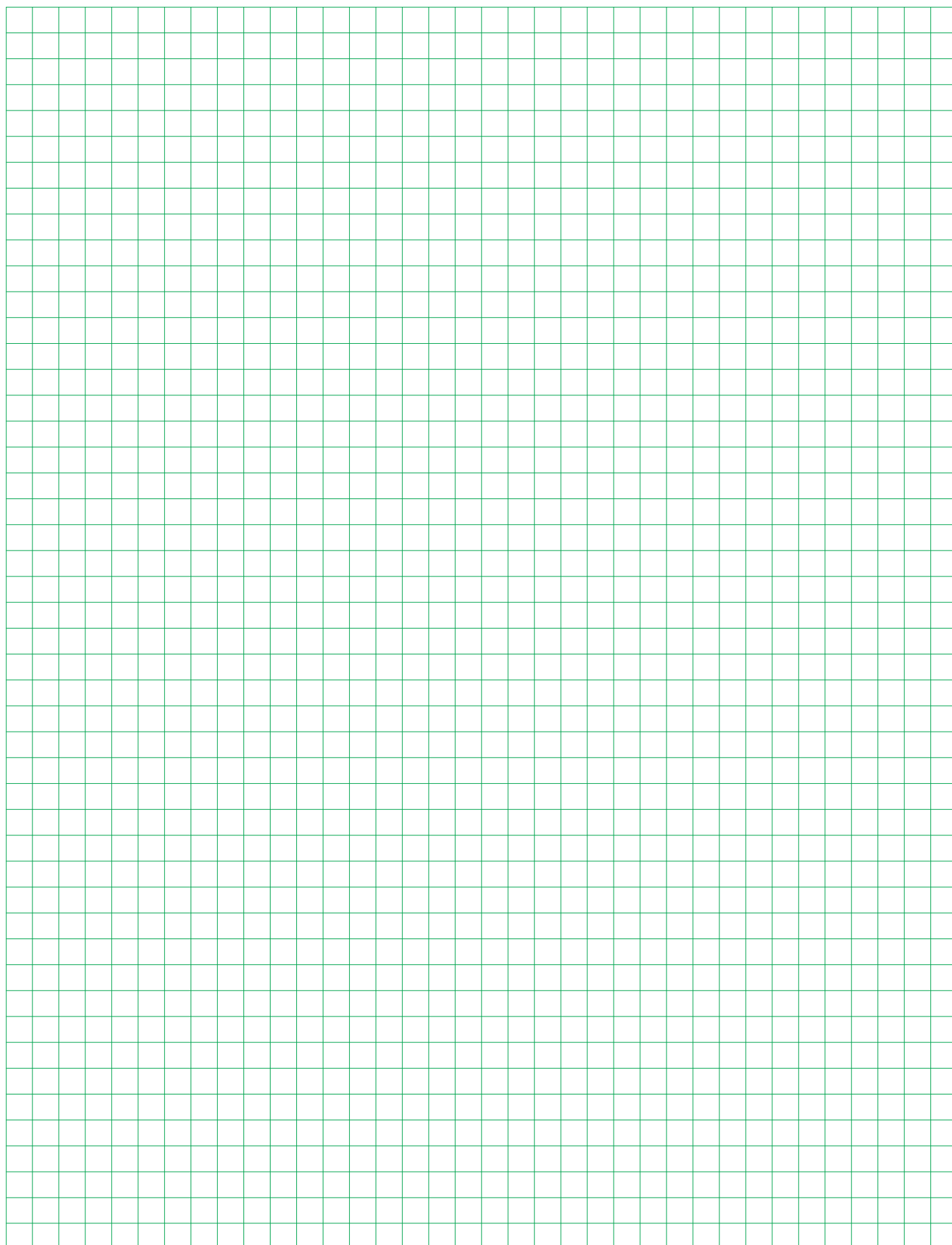
Main busbar system - Main busbar system (MBB - MBB)

Holder set / Attachment / Copper (Cu)



Rated current (<i>I_n</i>) in A	Cu busbars dimensions in mm	Length Cu-spacer in mm	Quantaty Cu-spacers	FLATPACK not mounted		MOUNTED installed in the cabinet	
				Type	Ord.-No.*	Type	Ord.-No.*
Connection to the MBB in the rear area, 3-pole, section depth 625 mm For offset section							
1000	2 x Cu 20 x 10			PXH125R	22361	PXH125RA	22358
1250	2 x Cu 30 x 10			PXH125R	22361	PXH125RA	22358
1600	2 x Cu 40 x 10			PXH145R	22363	PXH145RA	22360
2000	2 x Cu 60 x 10			PXH145R	22363	PXH145RA	22360
2500	2 x Cu 80 x 10			PXH135R	22362	PXH135RA	22359
Connection to the main busbar system (MBB - MBB), 3 pole For offset section Cu-spacer incl. threaded plate and fastening material							
1000		30	6	PWA30611	22405	PWA30611A	22400
1250		30	12	PWA31211	22406	PWA31211A	22401
1600		30	12	PWA31211	22406	PWA31211A	22401
2000		30	12	PWA31212	22409	PWA31212A	22404
2500		30	12	PWA31212	22409	PWA31212A	22404
Connection MBB to the MBB in the rear area, 3-pole, section depth 625 mm For offset section Copper busbars incl. fastening material							
1000	2 x Cu 20 x 10			PXC103R	22178	PXC103RA	22172
1250	2 x Cu 30 x 10			PXC123R	22179	PXC123RA	22173
1600	2 x Cu 40 x 10			PXC163R	22180	PXC163RA	22174
2000	2 x Cu 60 x 10			PXC203R	22181	PXC203RA	22175
2500	2 x Cu 80 x 10			PXC253R	22182	PXC253RA	22176

For your notes



Internal form of separation (IFOS)

Device area

PTBGCA154A



PTBGFA154A



Panel width (PW)	Arrangement MBB to TBB	Device version	Up to form	FLATPACK not mounted Type	Ord.-No.*	MOUNTED installed in the cabinet Type	Ord.-No.*
(IFOS) Incoming, outgoing section for 1 breaker, Section depth 625 mm For devices ABB T7 / X1 Incl. fastening material							
1,5	opposite	fixed	4b	PTBGAA154	21084	PTBGAA154A	21068
2	opposite	fixed	4b	PTBGAA24	22296	PTBGAA24A	22296
1,5	opposite	withdrawable	4b	PTBGCA154	21085	PTBGCA154A	21069
2	opposite	withdrawable	4b	PTBGCA24	22297	PTBGCA24A	22293
1,5	same side	fixed	4b	PTBGDA154	21086	PTBGDA154A	21070
2	same side	fixed	4b	PTBGDA24	22298	PTBGDA24A	22294
1,5	same side	withdrawable	4b	PTBGFA154	21087	PTBGFA154A	21071
2	same side	withdrawable	4b	PTBGFA24	22299	PTBGFA24A	22295
(IFOS) Incoming, outgoing section for 2 breaker, Section depth 625 mm For devices ABB T7 / X1 Incl. fastening material							
2,5	opposite	fixed	2b	PTBGAB252	21078	PTBGAB252A	21062
3	opposite	withdrawable	2b	PTBGCB32	21080	PTBGCB32A	21064
2,5	same side	fixed	2b	PTBGDB252	21079	PTBGDB252A	21063
3	same side	withdrawable	2b	PTBGFB32	21081	PTBGFB32A	21065
(IFOS) Incoming, outgoing section for 3 breaker, Section depth 625 mm For devices ABB T7 / X1 Incl. fastening material							
4	opposite	fixed	2b	PTBGAC42	21082	PTBGAC42A	21066
4	same side	fixed	2b	PTBGDC42	21083	PTBGDC42A	21067
(IFOS) Incoming, outgoing section for 1 breaker, Section depth 625 mm For device ABB E2 Incl. fastening material							
2	opposite	fixed	4b	PTBIAK24	21088	PTBIAK24A	21072
2	opposite	withdrawable	4b	PTBICK24	21089	PTBICK24A	21073
2	same side	fixed	4b	PTBIDK24	21090	PTBIDK24A	21074
(IFOS) Incoming, outgoing section for 1 breaker, Section depth 625 mm For device ABB E3 Incl. fastening material							
3	opposite	fixed	4b	PTBJAK34	21091	PTBJAK34A	21075
3	opposite	withdrawable	4b	PTBJCK34	21092	PTBJCK34A	21076
3	same side	fixed	4b	PTBJDK34	21093	PTBJDK34A	21077
For an overview of the internal forms of separation and their implementation see page 5-25							

Internal form of separation (IFOS)

Device area

	Panel width (PW)	Device version	Up to form	Cable connection (TBB)	FLATPACK not mounted		MOUNTED installed in the cabinet	
					Type	Ord.-No.*	Type	Ord.-No.*
 PTBGCG154A	IFOS Incoming/coupler section combination, section depth 625 mm For devices ABB T7 / X1 , Incl. fastening material				PTBGAG154 PTBGAG24	21111 22302	PTBGAG154A PTBGAG24	21101 22302
	1,5	fixed	4b					
	2	fixed	4b					
	1,5	withdrawable	4b					
	2	withdrawable	4b	PTBGGCG154 PTBGGCG24	21112 22303	PTBGGCG154A PTBGGCG24A	21102 22301	
 PTBGCH154A	IFOS Coupler section, section depth 625 mm For devices ABB T7 / X1 , Incl. fastening material				PTBGAG154 PTBGCH154	21113 21114	PTBGAG154A PTBGCH154A	21103 21104
	1,5	fixed	4b					
	1,5	withdrawable	4b					
 PTBIAN24A	IFOS Incoming/coupler section combination, section depth 625 mm For devices ABB E2 Incl. fastening material				PTBIAM24 PTBIAN24	21115 21116	PTBIAM24A PTBIAN24A	21105 21106
	2	fixed	4b	top				
	2	fixed	4b	bottom				
 PTBICQ24A	IFOS Coupler section, section depth 625 mm For devices ABB E2 Incl. fastening material				PTBIAQ24 PTBICQ24	21117 21118	PTBIAQ24A PTBICQ24A	21107 21108
	2	fixed	4b					
	2	withdrawable	4b					
 PTBJCQ34A	IFOS Coupler section, section depth 625 mm For devices ABB E3 Incl. fastening material				PTBJAQ34 PTBJCQ34	21119 21120	PTBJAQ34A PTBJCQ34A	21109 21110
	3	fixed	4b					
	3	withdrawable	4b					
For an overview of the internal forms of separation and their implementation see page 5-25								

For an overview of the internal forms of separation and their implementation see page 5-25

Internal form of separation (IFOS)

Device area

	Panel width (PW)			Arrangement MBB to TBB	Up to form	FLATPACK not mounted		MOUNTED installed in the cabinet	
						Type	Ord.-No.*	Type	Ord.-No.*
   	Outgoing section 2 to 3 panel wide, Section depth 625 mm For devices ABB SlimLine Incl. fastening material								
	2		opposite		4b	PTBMA264	21375	PTBMA264A	21355
	3		opposite		4b	PTBMA364	21376	PTBMA364A	21356
	2		same side		4b	PTBMB264	21377	PTBMB264A	21357
	3		same side		4b	PTBMB364	21378	PTBMB364A	21358
	Outgoing section 2 to 3 panel wide, Section depth 625 mm For devices ABB InLine Incl. fastening material								
	2		opposite		4b	PTBNA264	21379	PTBNA264A	21359
	3		opposite		4b	PTBNA364	21380	PTBNA364A	21360
	2		same side		4b	PTBNB264	21381	PTBNB264A	21361
	3		same side		4b	PTBNB364	21382	PTBNB364A	21362
For an overview of the internal forms of separation and their implementation see page 5-25									

Internal form of separation (IFOS)

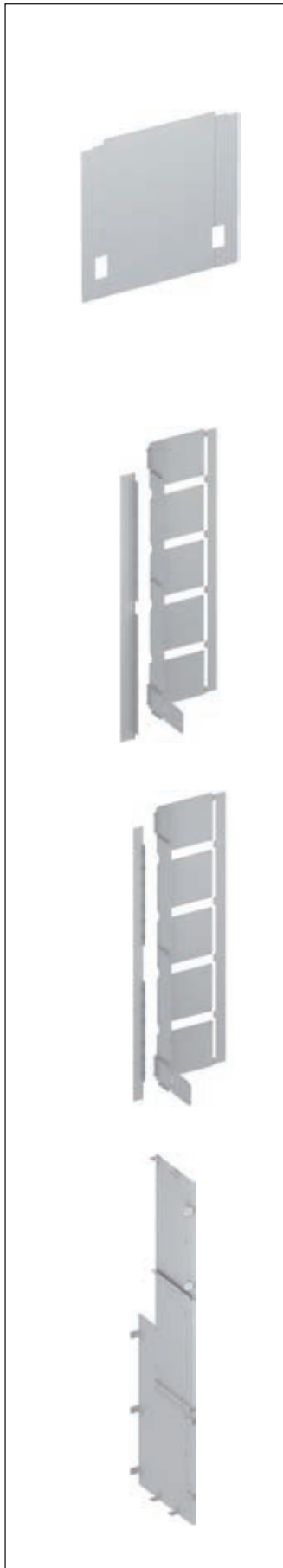
Measurement & Control area (M&C)

	Panel width (PW)	Grid height in mm	Up to form	FLATPACK not mounted		MOUNTED installed in the cabinet	
				Type	Ord.-No.*	Type	Ord.-No.*
	Measurement & control area with touch protection *4 against MBB, section depth 625 mm For incoming, outgoing, and coupler sections Incl. fastening material						
	1,5	600	4b	PTMB15606	21026	PTMB15606A	20960
	2	450 / 600	4b	PTMB2606	21027	PTMB2606A	20961
	2,5	600	4b	PTMB25606	21028	PTMB25606A	20962
	3	450 / 600	4b	PTMB3606	21029	PTMB3606A	20963
	3,5	600	4b	PTMB35606	21030	PTMB35606A	20964
	4	450 / 600	4b	PTMB4606	21031	PTMB4606A	20965
	Measurement & control area with hinged hood type mounting plate, section depth 625 mm For outgoing sections for switch disconnectors with NH-fuses / NH-fuse switch disconnectors Incl. fastening material						
	2	450	4b	PTMS2456	21032	PTMS2456A	20966
	3	450	4b	PTMS3456	21033	PTMS3456A	20967
	4	450	4b	PTMS4456	21034	PTMS4456A	20968
	Measurement & control area with hinged hood type mounting plate, section depth 625 mm For incoming, outgoing, and coupler sections Incl. fastening material						
	1,5	600	4b	PTMS15606	21035	PTMS15606A	20969
	2	600	4b	PTMS2606	21036	PTMS2606A	20970
	2,5	600	4b	PTMS25606	21037	PTMS25606A	20971
	3	600	4b	PTMS3606	21038	PTMS3606A	20972
	3,5	600	4b	PTMS35606	21039	PTMS35606A	20973
	4	600	4b	PTMS4606	21040	PTMS4606A	20974
		Expansion set for CombiLine-M*5 modules, section depth 625 mm For outgoing sections for switch disconnectors with NH-fuses / NH-fuse switch disconnectors Incl. fastening material					
2		450	4b	PTMM245	21041	PTMM245A	20975
3		450	4b	PTMM345	21042	PTMM345A	20976
4		450	4b	PTMM445	21043	PTMM445A	20977
	Expansion set for CombiLine-M*5 modules, section depth 625 mm For incoming, outgoing, and coupler sections Incl. fastening material						
	1,5	600	4b	PTMM1560	21044	PTMM1560A	20978
	2,5	600	4b	PTMM2560	21046	PTMM2560A	20980
	3,5	600	4b	PTMM3560	21048	PTMM3560A	20982
	Expansion set for CombiLine-M*5 modules, section depth 625 mm For incoming, outgoing, and coupler sections Incl. fastening material						
	2	600	4b	PTMM260	21045	PTMM260A	20979
	3	600	4b	PTMM360	21047	PTMM360A	20981
	4	600	4b	PTMM460	21049	PTMM460A	20983
*4 Touch protection may not be used as a mounting plate, mounting of current transformers not possible *5 CombiLine-M Modules, see page 4-19, 4-20 For an overview of the internal forms of separation and their implementation see page 5-25							

Internal form of separation (IFOS)

Cable connection area

Section/Section partition wall



Panel width (PW) Up to form			Sectional door height in mm		FLATPACK not mounted		MOUNTED installed in the cabinet	
					Type	Ord.-No.*	Type	Ord.-No.*
Touch protection of the main busbar system when MBB and TBB are on the same side For incoming, outgoing, and coupler sections Incl. fastening material								
1,5	4b	600			PTKA158	21056	PTKA158A	21050
2	4b	600			PTKA28	21057	PTKA28A	21051
2,5	4b	600			PTKA258	21058	PTKA258A	21052
3	4b	600			PTKA38	21059	PTKA38A	21053
3,5	4b	600			PTKA358	21060	PTKA358A	21054
4	4b	600			PTKA48	21061	PTKA48A	21055
Touch protection of the MBB and device area For outgoing sections ABB SlimLine XR, compartment fixed with plugable contacts OH 8 Incl. fastening material								
4	4b				PTKMB486	21489	PTKMB486A	21487
Touch protection of the MBB and device area For outgoing sections compartment fixed, for cable connection, OH 8 Incl. fastening material								
4	4b				PTKSB486	21490	PTKSB486A	21488
Section/Section partition wall, 3-piece, section depth 625 mm With maintainance openings at the top, middle, and bottom (Not required in the last section of an ASSEMBLY) Incl. fastening material								
					PTW86	20959	PTW86A	20958
For an overview of the internal forms of separation and their implementation see page 5-25								

For an overview of the internal forms of separation and their implementation see page 5-25

Form der inneren Unterteilung (FdiU)

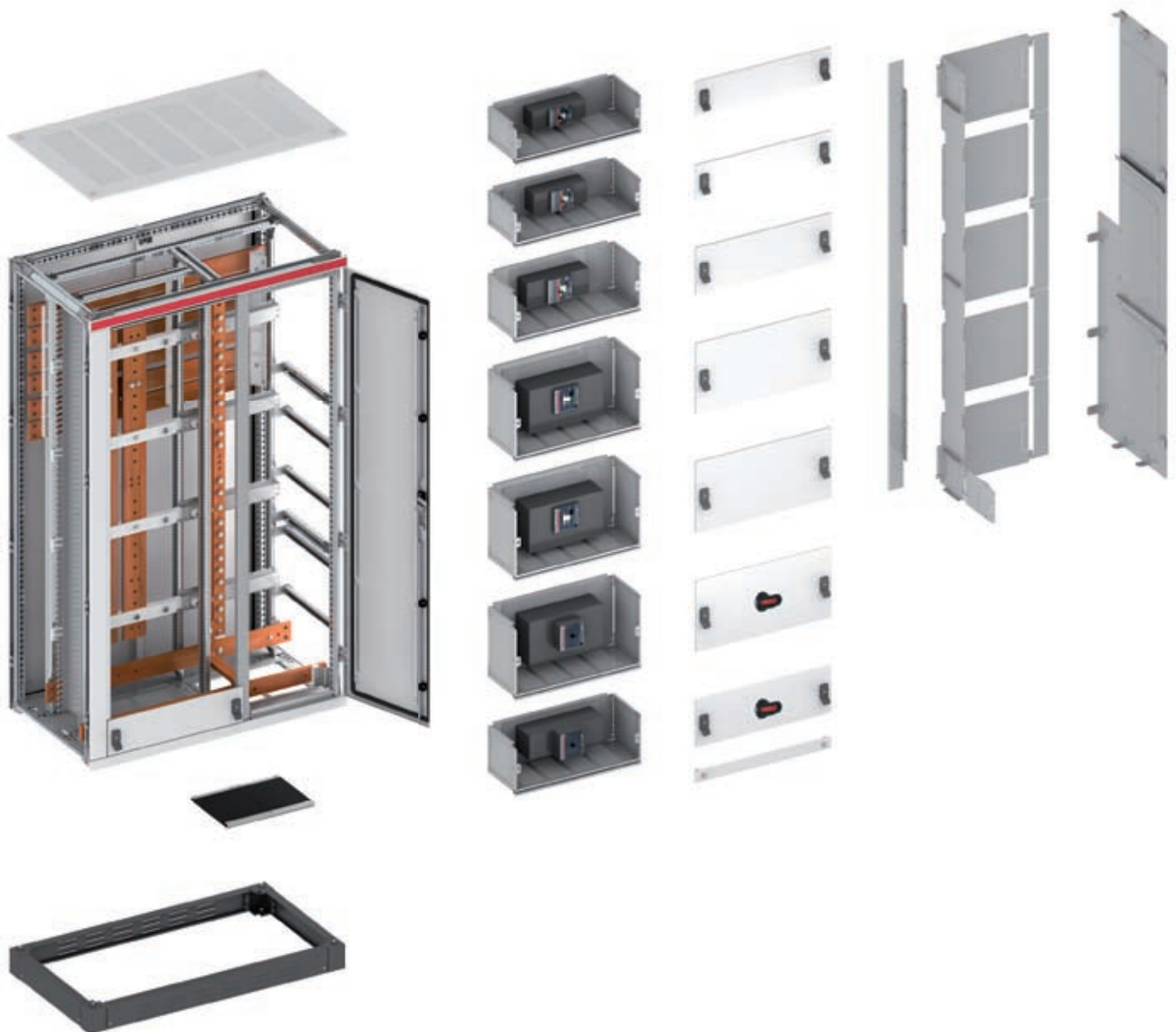
Touch guard, transparent



Panel width (PW)		Height in mm	FLATPACK not mounted		MOUNTED installed in the cabinet	
			Type	Ord.-No.*	Type	Ord.-No.*
IFOS for offset sections up to Form 4b, OH 8, section depth 625 mm Incl. fastening material						
1			PTU184	22355	PTU184A	22352
2			PTU284	22356	PTU284A	22353

TriLine® PowerModules

Compartment fixed, for cable connection



TriLine® PowerModules

Compartment fixed, for cable connection

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Compartment fixed, for cable connection

Compartment universal, Form 4b



Height in mm	Up to Form	Cut-outs for vertical segregations per side	FLATPACK not mounted		MOUNTED installed in the cabinet	
			Type	Ord.-No.*	Type	Ord.-No.*
Compartment universal, shallow version Incl. mounting plate, cover, horizontal segregation * ⁶						
150	4b	1 x 150 mm	PCKFGG154	21505	PCKFGG154A	21491
200	4b	1 x 200 mm	PCKFGG204	21506	PCKFGG204A	21492
300	4b	1 x 300 mm	PCKFGG304	21507	PCKFGG304A	21493
400	4b	2 x 200 mm	PCKFGG404	21508	PCKFGG404A	21494
600	4b	2 x 300 mm	PCKFGG604	21509	PCKFGG604A	21495
800	4b	4 x 200 mm	PCKFGG804	21510	PCKFGG804A	21496
900	4b	3 x 300 mm	PCKFGG904	21511	PCKFGG904A	21497
Compartment universal, deep version Incl. mounting plate, cover, horizontal segregation * ⁶						
150	4b	1 x 150 mm	PCKTGG154	21512	PCKTGG154A	21498
200	4b	1 x 200 mm	PCKTGG204	21513	PCKTGG204A	21499
300	4b	1 x 300 mm	PCKTGG304	21514	PCKTGG304A	21500
400	4b	2 x 200 mm	PCKTGG404	21515	PCKTGG404A	21501
600	4b	2 x 300 mm	PCKTGG604	21516	PCKTGG604A	21502
800	4b	4 x 200 mm	PCKTGG804	21517	PCKTGG804A	21503
900	4b	3 x 300 mm	PCKTGG904	21518	PCKTGG904A	21504

^{*6} The internal form of separation, Form 4b, is only achieved with the vertical segregations. These have to be ordered separately; see page 2-4.

*6 The internal form of separation, Form 4b, is only achieved with the vertical segregations. These have to be ordered separately, see page 3-4.

Compartment fixed, for cable connection

Compartment für circuit breakers, Form 4b



Height in mm	Up to Form	Cut-outs for vertical segregations per side	For circuit breaker	FLATPACK not mounted		MOUNTED installed in the cabinet	
				Type	Ord.-No.*	Type	Ord.-No.*
Compartment for circuit breaker, shallow version For circuit breaker, fixed, lever operated / solenoid operated, behind the door Incl. mounting plate, cover, horizontal segregation *6							
150	4b	1 x 150 mm	Tmax T1 (160 A)	PCKFGG154	21505	PCKFGG154A	21491
150	4b	1 x 150 mm	Tmax T2 (160 A)	PCKFGG154	21505	PCKFGG154A	21491
200	4b	1 x 200 mm	Tmax T3 (250 A)	PCKFGG204	21506	PCKFGG204A	21492
200	4b	1 x 200 mm	Tmax T4 (320 A)	PCKFGG204	21506	PCKFGG204A	21492
300	4b	1 x 300 mm	Tmax T5 (630 A)	PCKFGG304	21507	PCKFGG304A	21493
Compartment for circuit breaker, shallow version For circuit breaker, fixed, rotary handle through the door Incl. mounting plate, cover, horizontal segregation *6							
150	4b	1 x 150 mm	Tmax T1 (160 A)	PCKFGA154	21523	PCKFGA154A	21519
150	4b	1 x 150 mm	Tmax T2 (160 A)	PCKFGA154	21523	PCKFGA154A	21519
200	4b	1 x 200 mm	Tmax T3 (250 A)	PCKFGB204	21524	PCKFGB204A	21520
200	4b	1 x 200 mm	Tmax T4 (320 A)	PCKFGC204	21525	PCKFGC204A	21521
300	4b	1 x 300 mm	Tmax T5 (630 A)	PCKFGD304	21526	PCKFGD304A	21522
Compartment for circuit breaker, shallow version For circuit breaker, plug-in, lever operated, behind the door Incl. mounting plate, cover, horizontal segregation *6							
150	4b	1 x 150 mm	Tmax T2 (160 A)	PCKFSG154	21532	PCKFSG154A	21527
200	4b	1 x 200 mm	Tmax T3 (250 A)	PCKFUG204	21534	PCKFUG204A	21529
200	4b	1 x 200 mm	Tmax T4 (320 A)	PCKFUG204	21534	PCKFUG204A	21529
300	4b	1 x 300 mm	Tmax T5 (400 A)	PCKFVG304	21535	PCKFVG304A	21530
300	4b	1 x 300 mm	Tmax T5 (630 A)	PCKFWG304	21536	PCKFWG304A	21531
Compartment for circuit breaker, shallow version For circuit breaker, withdrawable, lever operated, behind the door Incl. mounting plate, cover, horizontal segregation *6							
300	4b	1 x 300 mm	Tmax T4 (320 A)	PCKFBG304	21541	PCKFBG304A	21538
300	4b	1 x 300 mm	Tmax T5 (400 A)	PCKFBG304	21541	PCKFBG304A	21538
300	4b	1 x 300 mm	Tmax T5 (630 A)	PCKFCG304	21542	PCKFCG304A	21539
Compartment for circuit breaker, shallow version For circuit breaker, fixed, motor operated, through the door Incl. mounting plate, cover, horizontal segregation *6							
200	4b	1 x 200 mm	Tmax T4 (320 A)	PCKFGM204	21547	PCKFGM204A	21545
300	4b	1 x 300 mm	Tmax T5 (400 A)	PCKFGN304	21548	PCKFGN304A	21546

*6 The internal form of separation, Form 4b, is only achieved with the vertical segregations. These have to be ordered separately, see page 2, 4.

*6 The internal form of separation, Form 4b, is only achieved with the vertical segregations. These have to be ordered separately, see page 3-4.

Compartment fixed, for cable connection

Vertical segregation



			FLATPACK not mounted		MOUNTED installed in the cabinet	
Height in mm	Ordering quantity	Number of cable entries	Type	Ord.-No.*	Type	Ord.-No.*
Vertical segregation, closed ^{*8} Incl. fastening material						
150	1		PTCVG15	21606	PTCVG15A	21597
200	1		PTCVG20	21607	PTCVG20A	21598
300	1		PTCVG30	21608	PTCVG30A	21599
Vertical segregation, incl. cable sleeves 14 - 68 mm ^{*8} Incl. fastening material						
150	1	1	PTCVC15	21609	PTCVC15A	21600
200	1	2	PTCVC20	21610	PTCVC20A	21601
300	1	3	PTCVC30	21611	PTCVC30A	21602
	1					
Vertical segregation, incl. cable sleeves 12 - 25 mm ^{*8} Incl. fastening material						
150	1	4	PTCVD15	21612	PTCVD15A	21603
200	1	4	PTCVD20	21613	PTCVD20A	21604
300	1	4	PTCVD30	21614	PTCVD30A	21605

^{*8} Segregations of the same height can be combined freely.
To achieve Form 4b, a segregation is required on both sides

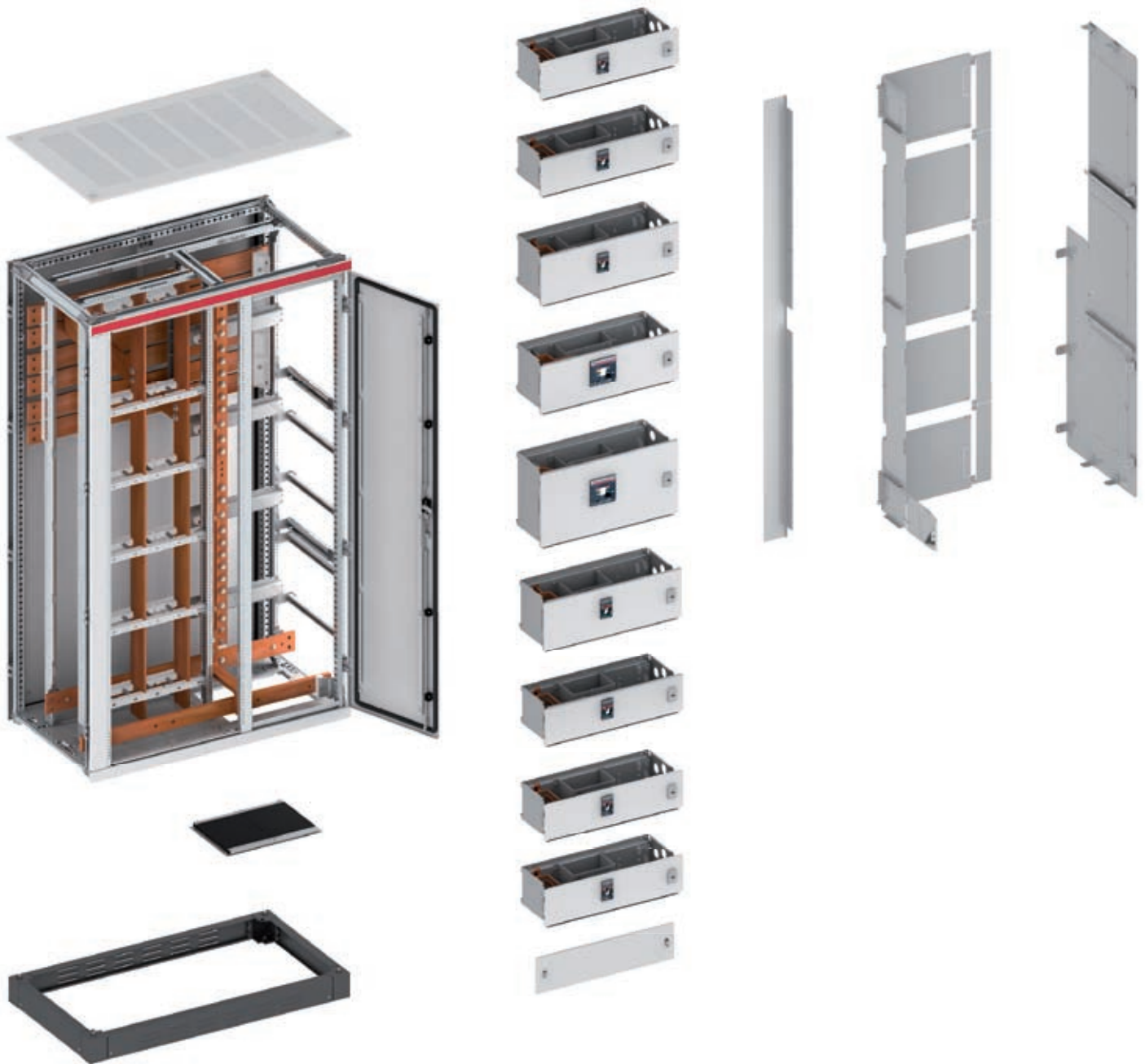
*⁸ Segregations of the same height can be combined freely.
To achieve Form 4b, a segregation is required on both sides.

For your notes

This image shows a full page of blank graph paper. The background is a uniform light gray color. Overlaid on this background is a grid of thin, green horizontal and vertical lines. These lines intersect to form a series of small, identical squares across the entire surface of the page. There are no margins, text, or other markings present.

TriLine® PowerModules

Compartment fixed with plugable



TriLine® PowerModules

Compartment fixed with plugable contacts

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Compartment fixed with pluggable contacts

Compartment universal without busbar contact set, Form 4b

Compartment universal with busbar contact set, Form 4b



Height in mm				FLATPACK not mounted		MOUNTED installed in the cabinet	
Up to Form		Rated current (I_n) in A		Type	Ord.-No.*	Type	Ord.-No.*
Compartment universal without busbar contact set*⁶ Incl. mounting plate, compartment door, horizontal segregation and door separation profile							
150	4b			PCS154	21712	PCS154A	21705
200	4b			PCS204	21713	PCS204A	21706
300	4b			PCS304	21714	PCS304A	21707
400	4b			PCS404	21715	PCS404A	21708
600	4b			PCS604	21716	PCS604A	21709
800	4b			PCS804	21717	PCS804A	21710
900	4b			PCS904	21718	PCS904A	21711
Compartment universal with busbar contact set up to Form 4b*⁶ Incl. mounting plate with busbar contact set, compartment door, mounting base universal, touch protection universal, horizontal segregation and door separation profile							
150	4b	160	3	PC013S154	21692	PC013S154A	21686
200	4b	320	3	PC033S204	21693	PC033S204A	21687
300	4b	630	3	PC063S304	21694	PC063S304A	21688

^{*6} The internal form of separation, Form 4b, is only achieved with the vertical segregations. These have to be ordered separately, see page 2-4

*⁶ The internal form of separation, Form 4b, is only achieved with the vertical segregations. These have to be ordered separately, see page 3-4.

Compartment fixed with plugable contacts

Compartment for circuit breakers, Form 4b



				FLATPACK not mounted		MOUNTED installed in the cabinet	
Height in mm	Up to Form	Poles	For circuit breakers	Type	Ord.-No.*	Type	Ord.-No.*
Compartment for circuit breaker up to Form 4b*⁶ For circuit breaker, fixed, lever operated, behind the door Incl. mounting plate with busbar contact set, compartment door, mounting base, horizontal segregation and door separation profile							
150	4b	3	Tmax T1 (160 A)	PC3AAS154	21738	PC3AAS154A	21719
150	4b	3	Tmax T2 (160 A)	PC3BAS154	21741	PC3BAS154A	21722
200	4b	3	Tmax T3 (250 A)	PC3CAS204	21745	PC3CAS204A	21726
200	4b	3	Tmax T4 (320 A)	PC3DAS204	21749	PC3DAS204A	21730
300	4b	3	Tmax T5 (630 A)	PC3EAS304	21753	PC3EAS304A	21734
Compartment for circuit breaker up to Form 4b*⁶ For circuit breaker, fixed, rotary handle with shaft extension, through the door Incl. mounting plate with busbar contact set, compartment door, mounting base, horizontal segregation and door separation profile							
150	4b	3	Tmax T1 (160 A)	PC3ABS154	21739	PC3ABS154A	21720
150	4b	3	Tmax T2 (160 A)	PC3BBS154	21742	PC3BBS154A	21723
200	4b	3	Tmax T3 (250 A)	PC3CBS204	21746	PC3CBS204A	21727
200	4b	3	Tmax T4 (320 A)	PC3DBS204	21750	PC3DBS204A	21731
300	4b	3	Tmax T5 (630 A)	PC3EBS304	21754	PC3EBS304A	21735
Compartment for circuit breaker up to Form 4b*⁶ For circuit breaker, fixed, solenoid operated, through the door Incl. mounting plate with busbar contact set, compartment door, mounting base, horizontal segregation and door separation profile							
150	4b	3	Tmax T1 (160 A)	PC3ACS154	21740	PC3ACS154A	21721
150	4b	3	Tmax T2 (160 A)	PC3BGS154	21743	PC3BGS154A	21724
200	4b	3	Tmax T3 (250 A)	PC3CGS204	21747	PC3CGS204A	21728
Compartment for circuit breaker up to Form 4b*⁶ For circuit breaker, plug-in, lever operated, through the door Incl. mounting plate with busbar contact set, compartment door, mounting base, horizontal segregation and door separation profile							
150	4b	3	Tmax T2 (160 A)	PC3BGS154	21743	PC3BGS154A	21724
200	4b	3	Tmax T3 (250 A)	PC3CGS204	21747	PC3CGS204A	21728
200	4b	3	Tmax T4 (320 A)	PC3DDS204	21751	PC3DDS204A	21732
300	4b	3	Tmax T5 (400 A)	PC3EDS304	21755	PC3EDS304A	21736
Compartment for circuit breaker up to Form 4b*⁶ For circuit breaker, withdrawable, lever operated, through the door Incl. mounting plate with busbar contact set, compartment door, mounting base, horizontal segregation and door separation profile							
300	4b	3	Tmax T4 (320 A)	PC3DES304	21752	PC3DES304A	21733
300	4b	3	Tmax T5 (400 A)	PC3EES304	21756	PC3EES304A	21737

^{*6} The internal form of separation, Form 4b, is only achieved with the vertical segregation. These have to be ordered separately, see page 2-4

*⁶ The internal form of separation, Form 4b, is only achieved with the vertical segregations. These have to be ordered separately, see page 3-4.

Compartment fixed with pluggable contacts

Compartment universal without busbar contact set, Form 2b

Compartment universal with busbar contact set, Form 2b

Compartment for circuit breakers, Form 2b



Height in mm	Up to Form	Rated current (I_n) in A	For circuit breakers	FLATPACK not mounted		MOUNTED installed in the cabinet	
				Type	Ord.-No.*	Type	Ord.-No.*
Compartment universal without busbar contact set up to Form 2b^{*7} Mounting plate incl. fastening material				RM1501 RM2001 RM3001 RM4001 RM6001 RM8001 RM9001	66319 66322 66325 66441 66442 66443 66444	RM1501A RM2001A RM3001A RM4001A RM6001A RM8001A RM9001A	21775 21776 21777 21778 21779 21780 21781
150	2b						
200	2b						
300	2b						
400	2b						
600	2b						
800	2b						
900	2b						
Compartment universal with busbar contact set up to Form 2b^{*7} Incl. mounting plate with busbar contact set, mounting base universal, touch protection universal				PC013S152 PC033S202 PC063S302	21689 21690 21691	PC013S152A PC033S202A PC063S302A	21683 21684 21685
150	2b	160					
200	2b	320					
300	2b	630					
Compartment for circuit breakers up to Form 2b^{*7} For circuit breaker, fixed, lever operated, behind the door Incl. mounting plate with busbar contact set, mounting base, touch protection Form 2b				PC3BFS152 PC3BFS152 PC3CFS202 PC3DFS202 PC3EFS302	21701 21701 21702 21703 21704	PC3BFS152A PC3BFS152A PC3CFS202A PC3DFS202A PC3EFS302A	21696 21696 21697 21698 21699
150	2b	Tmax T1 (160 A)					
150	2b	Tmax T2 (160 A)					
200	2b	Tmax T3 (250 A)					
200	2b	Tmax T4 (320 A)					
300	2b	Tmax T5 (630 A)					

^{*7} The internal form of separation, Form 2b, with a OH8 compartment door
RTCS48L / RTCS48LA. This door has to be ordered separately,
see page 1-14

^{*7} The internal form of separation, Form 2b, with a OH8 compartment door
RTCS48L / RTCS48LA. This door has to be ordered separately,
see page 1-14.

Compartment fixed with plugable contacts

Vertical segregation



			FLATPACK not mounted		MOUNTED installed in the cabinet	
Height in mm	Ordering quantity	Number of cable entries	Type	Ord.-No.*	Type	Ord.-No.*
Vertical segregation, closed * ⁸ Incl. fastening material						
150	1		RTW1501	66328	RTW1501A	21782
200	1		RTW2001	66331	RTW2001A	21783
300	1		RTW3001	66334	RTW3001A	21787
400	1		RTW4001	66455	RTW4001A	21788
600	1		RTW6001	66456	RTW6001A	21789
800	1		RTW8001	66457	RTW8001A	21790
900	1		RTW9001	66458	RTW9001A	21791
Vertical segregation, incl. cable sleeves 10 - 34 mm * ⁸ Incl. fastening material						
150	1	4	RTW1502	66329	RTW1502A	21792
200	1	4	RTW2002	66332	RTW2002A	21793
300	1	4	RTW3002	66335	RTW3002A	21794
Vertical segregation, incl. cable sleeves 18 - 54 mm * ⁸ Incl. fastening material						
150	1	1	RTW1503	66330	RTW1503A	21795
200	1	2	RTW2003	66333	RTW2003A	21796
300	1	2	RTW3003	66336	RTW3003A	21797
Vertical segregation, with plastic insert * ⁸ Incl. fastening material						
150	1		RTW1504	46407	RTW1504A	21798
200	1		RTW2004	46408	RTW2004A	21799
300	1		RTW3004	46409	RTW3004A	21800
400	1		RTW4004	66459	RTW4004A	21801
600	1		RTW6004	66460	RTW6004A	21802
800	1		RTW8004	66461	RTW8004A	21803
900	1		RTW9004	66462	RTW9004A	21804

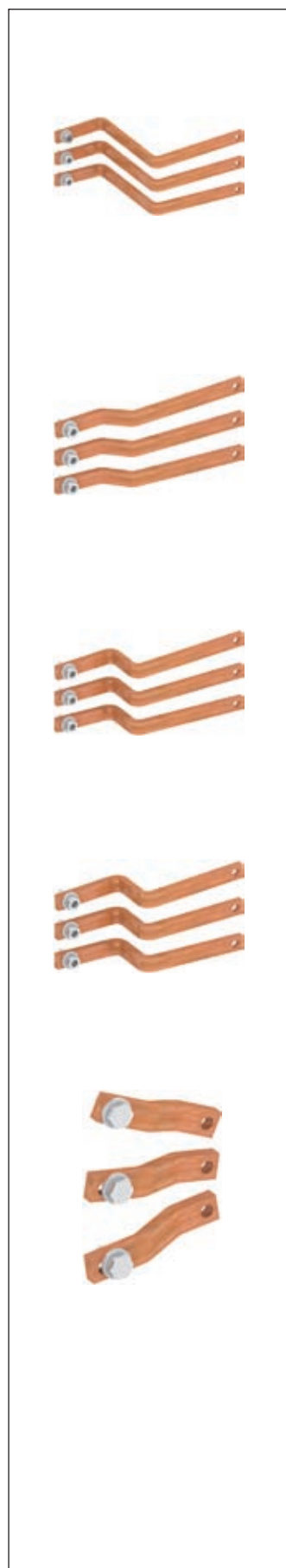
*⁸ Segregations of the same height can be combined freely.

To achieve Form 4, no segregation is required on both sides.

*⁸ Segregations of the same height can be combined freely.
To achieve Form 4b, a segregation is required on both sides

Compartment fixed with plugable contacts

Connection sets for circuit breakers



For circuit breaker		FLATPACK not mounted		MOUNTED installed in the cabinet	
Poles		Type	Ord.-No.*	Type	Ord.-No.*
Connection set for circuit breaker					
For circuit breaker, fixed, lever operated, through the door					
3	Tmax T1 (160 A)	RCT113	66174	RCT113A	21805
3	Tmax T2 (160 A)	RCT213	66177	RCT213A	21808
3	Tmax T3 (250 A)	RCT313	66181	RCT313A	21812
3	Tmax T4 (320 A)	RCT413	66185	RCT413A	21816
3	Tmax T5 (630 A)	RCT513	66189	RCT513A	21820
Connection set for circuit breaker					
For circuit breaker, fixed, rotary handle with shaft extension, through the door					
For circuit breaker, fixed, lever operated, behind the door (for Form 2b)					
3	Tmax T1 (160 A)	RCT123	66175	RCT123A	21806
3	Tmax T2 (160 A)	RCT223	66178	RCT223A	21809
3	Tmax T3 (250 A)	RCT323	66182	RCT323A	21813
3	Tmax T4 (320 A)	RCT423	66186	RCT423A	21817
3	Tmax T5 (630 A)	RCT533	66191	RCT533A	21821
Connection set for circuit breaker					
For circuit breaker, fixed, solenoid operated, through the door					
3	Tmax T1 (160 A)	RCT133	66176	RCT133A	21807
3	Tmax T2 (160 A)	RCT233	66179	RCT233A	21810
3	Tmax T3 (250 A)	RCT333	66183	RCT333A	21814
Connection set for circuit breaker					
For circuit breaker, plug-in, lever operated, through the door					
3	Tmax T2 (160 A)	RCT243	66180	RCT243A	21811
3	Tmax T3 (250 A)	RCT343	66184	RCT343A	21815
3	Tmax T4 (320 A)	RCT433	66187	RCT433A	21818
3	Tmax T5 (400 A)	RCT553	66193	RCT553A	21822
Connection set for circuit breaker					
For circuit breaker, withdrawable, lever operated, through the door					
3	Tmax T4 (320 A)	RCT443	66188	RCT443A	21819
3	Tmax T5 (400 A)	RCT553	66193	RCT553A	21822

For your notes

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TriLine® PowerModules Accessories



TriLine® PowerModules

Accessories

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Accessories

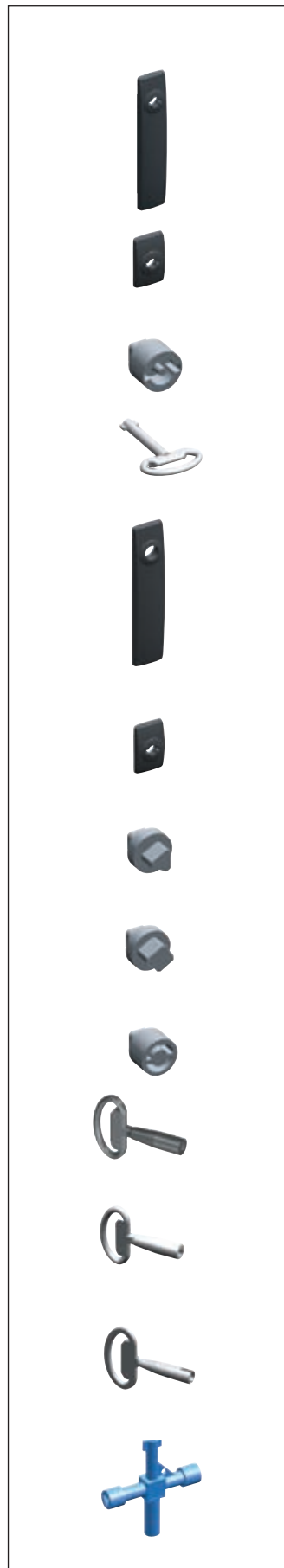
General



Article	FLATPACK not mounted		MOUNTED installed in the cabinet	
	Type	Ord.-No.*	Type	Ord.-No.*
Connection set , mechanical, up to Form 4b Cabinet / cabinet connection incl. sealing strip and fastening material For use in conjunction with segregation wall PTW86 or PTW86A	RZ149	21832		
Connection set , mechanical, for Form 1, without segregation wall Cabinet / cabinet connection incl. sealing strip and fastening material For use without segregation wall	RZ33	45997		
External fastening bracket For securing cabinets to the wall 2 pcs.	RZ32P2	45996		
Documentation pocket DIN A4 Adhesive 1 pcs. 10 pcs.	ZA13 ZA13P10	38233 62381		
Documentation pocket for sectional doors Including DIN A4 file with spine width 35 mm	ZA150	21428	ZA150A	21427
Transportation lugs For crane handling 4 pcs.	RZ11P4	45995	RZ11P4A	21615
Earthing set For doors, rear walls, side walls and top plates	RZ36	46013	RZ36A	21616
180° Hinge for standard doors Incl. fastening material 4 pcs.	RZ9P4	45993	RZ9P4A	21618
180° Hinge for sectional doors Incl. fastening material 2 pcs.	RZ54P2	46165	RZ54P2A	21617

Accessories

Lock parts



Article	FLATPACK not mounted		MOUNTED installed in the cabinet	
	Type	Ord.-No.*	Type	Ord.-No.*
Latch plate for standard doors For double bit operating pin ZH130 / ZH131	ZH220	45700		
Latch plate for compartment doors* For double bit operating pin ZH130 / ZH131	ZH224	45704		
Operating pin Double bit 3 mm* Double bit 5 mm	ZH130 ZH131	60490 60491		
Operating key Double bit 3 mm* Double bit 5 mm	ZH160 ZH161	60660 60661		
Latch plate for standard doors For triangular or square operating pin ZH132 up to ZH136 or for Daimler-Benz operating pin ZH137	ZH221	45701		
Latch plate for compartment doors For triangular or square operating pin ZH132 up to ZH136 or for Daimler-Benz operating pin ZH137	ZH225	45705		
Operating pin Triangular 7 mm Triangular 8 mm	ZH132 ZH133	60492 60493		
Operating pin Square 6 mm Square 7 mm Square 8 mm	ZH134 ZH135 ZH136	60494		
Operating pin Daimler-Benz	ZH137	60497		
Operating key Triangular 7 mm Triangular 8 mm	ZH157 ZH158	60657 60658		
Operating key Square 6 mm Square 7 mm Square 8 mm	ZH162 ZH163 ZH164	60662 60663 60664		
Operating key Daimler-Benz	ZH165	60665		
Universal key Double bit 3 mm / 5 mm Triangular 8 mm Square 6 mm / 8 mm	ZH91	66091		

* Included in the scope of delivery

Accessories

Lock parts



Article	FLATPACK not mounted		MOUNTED installed in the cabinet	
	Type	Ord.-No.*	Type	Ord.-No.*
Latch plate for standard doors For chrome plated T-handle or latch handle ZH138 up to ZH141	ZH222	45702		
Latch plate for compartment doors For chrome plated T-handle or latch handle ZH138 up to ZH141 or for lockable compartment door handle ZH237	ZH226	45706		
T-handle, chrome plated Without lock	ZH138	60498		
T-handle, chrome plated With lock	ZH139	60499		
Latch handle, chrome plated Without lock	ZH140	60500		
Latch handle, chrome plated With lock	ZH141	60501		
T-handle for compartment doors With lock	ZH237	66359	ZH237A	21620
Swivel handle for semi-cylinder 40 mm, with sealable cap	ZH223	45703	ZH223A	21619
Dummy insert (instead of a semi-cylinder)	ZH142	60502		

Accessories

Profiles, universal cross members, cable fastening rails

Article	FLATPACK not mounted		MOUNTED installed in the cabinet	
	Type	Ord.-No. +	Type	Ord.-No. +
	Width universal cross member 50 x 25 mm, with holes, pitch 12,5 mm			
	For mounting between the cabinet profiles			
	Panel width (PW)			
	1	RZULB1	46058	
	1,5	RZULB15	46417	
	2	RZULB2	46059	
	2,5	RZULB25	46418	
	3	RZULB3	46060	
	3,5	RZULB35	46419	
	4	RZULB4	46061	
	5	RZULB5	46062	
	Depth universal cross member 50 x 25 mm, with holes, pitch 12,5 mm			
	For mounting between the cabinet profiles			
	Section depth in mm			
	325	RZULT3	46054	
	425	RZULT4	46055	
	Height universal cross member 50 x 25 mm, with holes, pitch 12,5 mm			
	For mounting between the cabinet profiles			
	Overall height (OH)			
	8	RZULH8	46063	
	10	RZULH10	46064	
	Universal cross member 50 x 25 mm, with holes, pitch 12,5 mm			
	Special lengths in mm			
	344	RZUL1	46293	
	294	RZUL2	46430	
	263	RZUL3	46431	
	168	RZUL4	46463	
	509	RZUL5	46421	
	Cable fastening rail			
	Width profile			
	Panel width (PW)			
	1,5	RZBA1510	47000	
	2	RZBA210	46050	
	2,5	RZBA2510	47001	
	3	RZBA310	46051	
	3,5	RZBA3510	47002	
	4	RZBA410	46052	
	Cable fastening rail			
	Depth profile			
	Section depth in mm			
	625	RZ121	46298	
	825	RZ123	46423	

Accessories

Mounting parts for devices

	Article	Panel width (PW)	FLATPACK not mounted		MOUNTED installed in the cabinet	
			Type	Ord.-No.*	Type	Ord.-No.*
	Vertical device support profile left for: Compartments fixed with plugable contacts Compartments fixed, for cable connection	4	RZ135	66354		
	Vertical device support profile right for: Compartments fixed with plugable contacts Compartments fixed, for cable connection	4 4	RZ134 RZ213	66353 21836		

Accessories

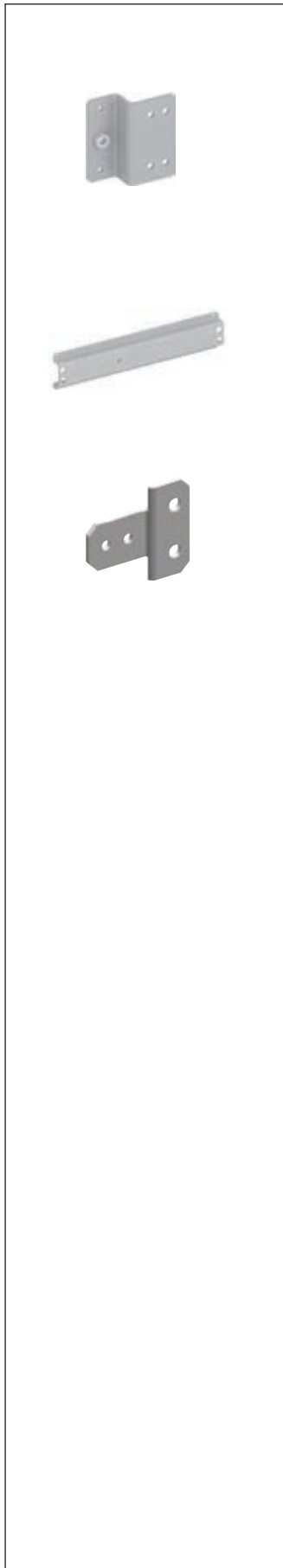
Mounting brackets

Article	FLATPACK not mounted		MOUNTED installed in the cabinet	
	Type	Ord.-No.*	Type	Ord.-No.*
 Cross member holder For mounting between cabinet profiles 2 pcs. 20 pcs.	RZ6P2 RZ6P20	45990 46011		
 Mounting bracket For mounting between cabinet profiles 2 pcs. 20 pcs.	RZ7P2 RZ7P20	45991 46012		
 Mounting bracket For mounting of the vertical device support profile in compartment section 4PW	RZ85	46269		
 Mounting bracket For mounting frame	RZ209	22339		
 Mounting bracket For mounting set and for mounting frame	RZ211	21834		

Accessories

Mounting N / PE busbar system

Mounting distribution busbar system (DBB)



Article	FLATPACK not mounted		MOUNTED installed in the cabinet	
	Type	Ord.-No.*	Type	Ord.-No.*
Mounting bracket, Cu busbars horizontal For N holder ZX563 For PE Cu busbar (Mounting directly on the mounting bracket)	RZ84	21830		
Mounting bracket, Cu busbars vertical For N holder ZX563 For PE Cu busbar (Mounting directly on the mounting bracket)	RZ88	21831		
Mounting bracket set to support the DBB holder set For outgoing section ABB SlimLine XR, compartments fixed with plugable contacts	RZ214	21838		

Accessories

Busbar holder

Main busbar system (MBB)

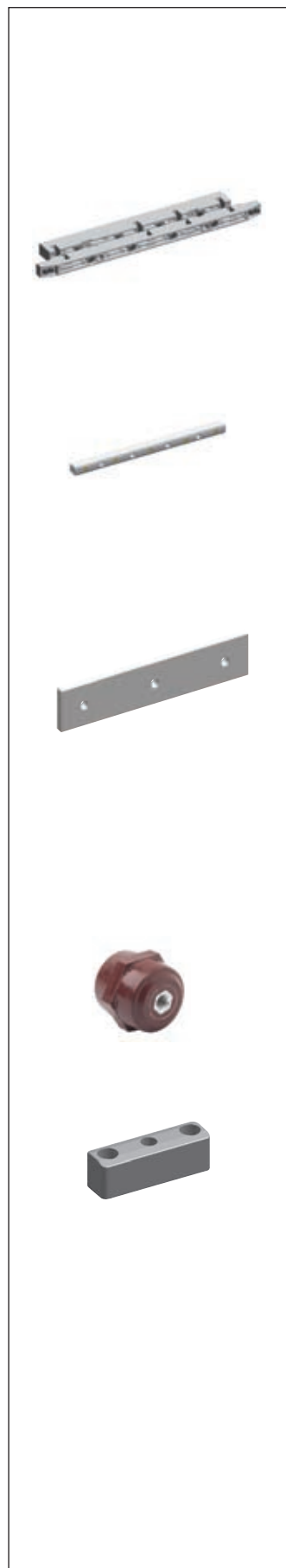


Article	FLATPACK not mounted		MOUNTED installed in the cabinet	
	Type	Ord.-No. +	Type	Ord.-No. +
MBB busbar holder, 3-pole Sammelschienenmittenabstand 200 mm	ZX640	46077		
MBB clamp for busbar holder ZX640 / ZX641 One required per pole For Cu busbars: 2 x 20 x 10 mm, 1000 A 1 pcs. 20 pcs.	ZX638 ZX638P20	21823 21824		
MBB clamp for busbar holder ZX640 / ZX641 One required per pole For Cu busbars: 2 x 30 x 10 mm, 1250 A 1 pcs. 20 pcs.	ZX644 ZX644P20	46081 46600		
MBB clamp for busbar holder ZX640 / ZX641 One required per pole For Cu busbars: 2 x 40 x 10 mm, 1600 A 1 pcs. 20 pcs.	ZX647 ZX647P20	46084 46603		
MBB clamp for busbar holder ZX640 / ZX641 One required per pole For Cu busbars: 2 x 60 x 10 mm, 2000 A 1 pcs. 20 pcs.	ZX645 ZX645P20	46082 46601		
MBB clamp for busbar holder ZX640 / ZX641 One required per pole For Cu busbars: 2 x 80 x 10 mm, 2500 A 1 pcs. 20 pcs.	ZX646 ZX646P20	46083 46602		
MBB threaded plate M12 For connection of CBB to MBB 1 pcs. 20 pcs.	ZX657 ZX657P20	46094 46303		

Accessories

Busbar holder

Distribution busbar system / N busbar system



Article	FLATPACK not mounted		MOUNTED installed in the cabinet	
	Type	Ord.-No.*	Type	Ord.-No.*
DBB busbar holder Busbar centre spacing 185 mm For Cu busbars: 1 x 60 x 10 mm DBB 1250 A 1 x 80 x 10 mm DBB 1600 A 1 x 100 x 10 mm DBB 2000 A	ZX551 ZX555 ZX559	68515 68676 68737		
DBB busbar holder, 3-pole Busbar centre spacing 100 / 185 mm 1 pcs. 10 pcs.	ZX522 ZX522P10	67909 62553		
Fibreglass busbar intermediate spacer Material 50 mm x 10 mm Length in mm: 120 134 150 190 208 223 226 240 352 475 575	ZX673 ZX688 ZX680 ZX671 ZX672 ZX674 ZX682 ZX675 ZX683 ZX676 ZX677	21825 46268 46260 46977 46978 21826 46262 21827 46263 21828 21829		
Support insulators with spanner flats H: 40; D: 40; Female thread, both sides: M 10; Width across flats: 40	ZX52	39052		
N busbar holder For Cu busbars: Max. 1 x 100 x 10 mm 1 pcs. 10 pcs.	ZX563 ZX563P10	68735 68736		

Accessories

Screws, conical spring washers, washers and nuts for mechanical assembly

Article	FLATPACK not mounted		MOUNTED installed in the cabinet	
	Type	Ord.-No.*	Type	Ord.-No.*
Hexalobular socket pan head thread rolling screw (DIN 7500 Torx T30) For cross members, brackets and TriLine frame profiles				
M6 x 10 mm	20 pcs.			
	500 pcs.			
M6 x 16 mm	20 pcs.			
Hexalobular socket countersunk head thread rolling screw (Torx T30) For rear wall and side walls				
M6 x 12 mm	20 pcs.			
Hexalobular socket pan head tapping screw (Duo-Taptite screw DIN 7500 Torx T30) For assembly of hinges on the TriLine frame profiles				
M6 x 14 mm (Torx T30)	20 pcs.			
Hexagon socket head cap screw (DIN 912 8.8)				
M6 x 25 mm	20 pcs.			
M6 x 20 mm	10 pcs.			
M6 x 30 mm	20 pcs.			
Conical spring washer (DIN 6796 B/C galv.)				
M6	10 pcs.			
Plain washer (DIN 125 galv.)				
M6	10 pcs.			
Hexagon nut (DIN 934 galv.)				
M6	10 pcs.			

Accessories

Bolts, conical spring washers, washers, nuts
for Cu busbar assembly



Article	FLATPACK not mounted		MOUNTED installed in the cabinet	
	Type	Ord.-No.*	Type	Ord.-No.*
Hexagon bolt M8 (DIN 933 8.8 galv.)				
M8 x 25 mm	10 pcs.	ZX721P10	62595	
M8 x 30 mm	10 pcs.	ZX722P10	46252	
M8 x 35 mm	10 pcs.	ZX723P10	46301	
M8 x 40 mm	10 pcs.	ZX724P10	46253	
M8 x 45 mm	10 pcs.	ZX725P10	66357	
M8 x 50 mm	10 pcs.	ZX726P10	46254	
M8 x 60 mm	10 pcs.	ZX728P10	46434	
Hexagon bolt M10 (DIN 933 8.8 galv.)				
M10 x 16 mm	10 pcs.	ZX739P10	21856	
M10 x 25 mm	10 pcs.	ZX741P10	21858	
M10 x 30 mm	10 pcs.	ZX742P10	62634	
M10 x 35 mm	10 pcs.	ZX743P10	62606	
M10 x 40 mm	10 pcs.	ZX744P10	62607	
M10 x 45 mm	10 pcs.	ZX745P10	21857	
M10 x 50 mm	10 pcs.	ZX746P10	62613	
M10 x 60 mm	10 pcs.	ZX748P10	62616	
M10 x 70 mm	10 pcs.	ZX750P10	62617	
Hexagon bolt M12 (DIN 933 8.8 galv.)				
M12 x 30 mm	10 pcs.	ZX762P10	62618	
M12 x 35 mm	10 pcs.	ZX763P10	62608	
M12 x 40 mm	10 pcs.	ZX764P10	62619	
M12 x 45 mm	10 pcs.	ZX765P10	21859	
M12 x 50 mm	10 pcs.	ZX766P10	62620	
M12 x 55 mm	10 pcs.	ZX767P10	62623	
M12 x 60 mm	10 pcs.	ZX768P10	62614	
M12 x 65 mm	10 pcs.	ZX769P10	62624	
M12 x 70 mm	10 pcs.	ZX770P10	62621	
M12 x 80 mm	10 pcs.	ZX772P10	62609	
M12 x 90 mm	10 pcs.	ZX774P10	46255	
M12 x 100 mm	1 pcs.	ZX181	44035	
M12 x 110 mm	1 pcs.	ZX182	44036	
Hexagon socket countersunk head screw (DIN 7991 8.8 galv.)				
M10 x 60	10 pcs.	ZX714P10	68681	
Conical spring washer (DIN 6796 B/C galv.)				
M8	10 pcs.	ZX217P10	60635	
M10	10 pcs.	ZX218P10	60636	
M12	10 pcs.	ZX219P10	60637	
Plain washer (DIN 125 galv.)				
M8	10 pcs.	ZX284P10	62532	
M10	10 pcs.	ZX285P10	62533	
M12	10 pcs.	ZX286P10	62534	
Hexagon nut (DIN 934 galv.)				
M8	10 pcs.	ZX294P10	62538	
M10	10 pcs.	ZX295P10	62539	
M12	10 pcs.	ZX296P10	62540	
Press-in type hexagon nut				
M8	10 pcs.	ZX377P10	62546	
M10	10 pcs.	ZX397P10	62586	
M12	10 pcs.	ZX398P10	62587	

Accessories

Cu cylindrical spacers and Cu busbars

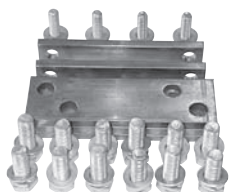


Article	FLATPACK not mounted		MOUNTED installed in the cabinet	
	Type	Ord.-No.*	Type	Ord.-No.*
Cu cylindrical spacer				
ø 30 x 10 mm, ø 12,5 mm	ZX651	46088		
ø 30 x 20 mm, ø 12,5 mm	ZX652	46089		
ø 30 x 30 mm, ø 12,5 mm	ZX653	46090		
ø 30 x 40 mm, ø 12,5 mm	ZX654	46091		
ø 30 x 45 mm, ø 12,5 mm	ZX664	46086		
ø 30 x 50 mm, ø 12,5 mm	ZX655	46092		
ø 30 x 11 mm, ø 10 mm	ZX39	60213		
Cu busbar 20 x 10 mm, 1 m = 1,780 kg*				
1 m	ZX362	61362		
2 m	ZX363	61363		
3 m	ZX364	61364		
4 m	ZX355	61355		
Cu busbar 30 x 10 mm, 1 m = 2,670 kg*				
1 m	ZX412	61412		
2 m	ZX413	61413		
3 m	ZX414	61414		
4 m	ZX356	61356		
Cu busbar 40 x 10 mm, 1 m = 3,560 kg*				
1 m	ZX415	61415		
2 m	ZX416	61416		
3 m	ZX417	61417		
4 m	ZX357	61357		
Cu busbar 50 x 10 mm, 1 m = 4,450 kg*				
1 m	ZX418	61418		
2 m	ZX419	61419		
3 m	ZX420	61420		
4 m	ZX358	61358		
Cu busbar 60 x 10 mm, 1 m = 5,340 kg*				
1 m	ZX421	61421		
2 m	ZX422	61422		
3 m	ZX423	61423		
4 m	ZX359	61359		
Cu busbar 80 x 10 mm, 1 m = 7,120 kg*				
1 m	ZX424	61424		
2 m	ZX425	61425		
3 m	ZX426	61426		
4 m	ZX360	61360		
Cu busbar 100 x 10 mm, 1 m = 8,900 kg*				
1 m	ZX427	61427		
2 m	ZX428	61428		
3 m	ZX429	61429		
4 m	ZX361	61361		

* Information for calculation purposes only,
actual values can deviate

Accessories

Busbar connectors copper(Cu)



Cu busbar dimensions in mm		FLATPACK not mounted		MOUNTED installed in the cabinet	
Quantity		Type	Ord.-No.*	Type	Ord.-No.*
Busbar connector cabinet / cabinet, 1000 A 1 Set consisting of Cu busbars (fish plates), bolts and conical spring washers:		RZ189	21839		
20 x 10	6				
30 x 10	3				
Busbar connector cabinet / cabinet, 1250 A 1 Set consisting of Cu busbars (fish plates), bolts and conical spring washers:		RZ190	46638		
30 x 10	9				
Busbar connector cabinet / cabinet, 1600 A 1 Set consisting of Cu busbars (fish plates), bolts and conical spring washers:		RZ192	46640		
40 x 10	9				
Busbar connector cabinet / cabinet, 2000 A 1 Set consisting of Cu busbars (fish plates), bolts and conical spring washers:		RZ194	46642		
60 x 10	9				
Busbar connector cabinet / cabinet, 2500 A 1 Set consisting of Cu busbars (fish plates), bolts and conical spring washers:		RZ60	46220		
80 x 10	9				

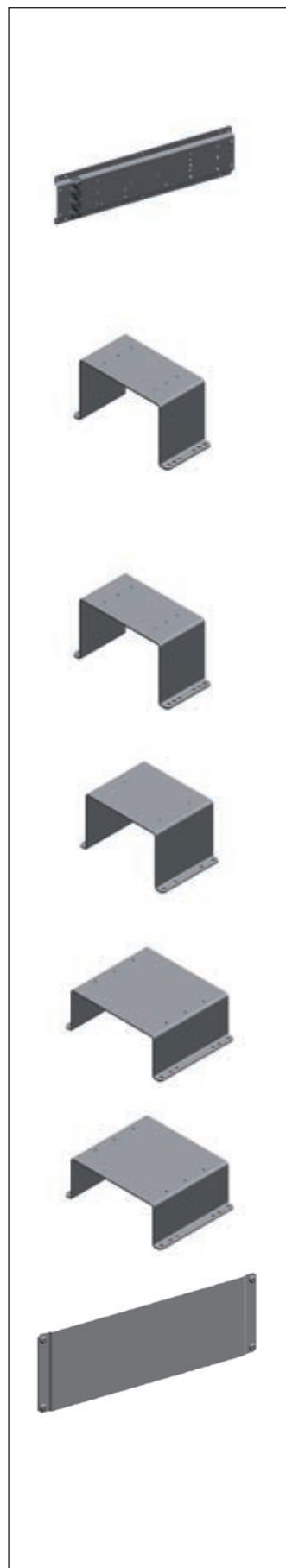
Accessories

Compartment fixed, for cable connection

	Height in mm	For circuit breaker	FLATPACK not mounted		MOUNTED installed in the cabinet	
			Type	Ord.-No.*	Type	Ord.-No.*
	Compartment cover without cut-out Fastening with bayonet closure					
	150		RTAG15	21841		
	200		RTAG20	21842		
	300		RTAG30	21843		
	400		RTAG40	21844		
	600		RTAG60	21845		
	800		RTAG80	21846		
	900		RTAG90	21847		
	Compartment cover for circuit breaker For circuit breaker fixed, rotary handle, through the cover Fastening with bayonet closure					
	150	Tmax T1 (160 A)	RTAA15	21848		
	150	Tmax T2 (160 A)	RTAA15	21848		
	200	Tmax T3 (250 A)	RTAB20	21849		
	200	Tmax T4 (320 A)	RTAC20	21850		
	300	Tmax T5 (630 A)	RTAD30	21851		
	Compartment cover for circuit breaker For circuit breaker fixed, motor operated, through the cover Fastening with bayonet closure					
	200	Tmax T4 (320 A)	RTAM20	21852		
300	Tmax T5 (630 A)	RTAN30	21853			
	Horizontal segregation between compartments Required to achieve Form 4b		PTCH	21840		

Accessories

Compartment fixed with plugable contacts



				FLATPACK not mounted		MOUNTED installed in the cabinet	
Height in mm	Pole	Rated current (I_n)	For circuit breaker	Type	Ord.-No.*	Type	Ord.-No.*
Mounting plate with busbar contact set							
150	3	160 A		RM1502	66320		
200	3	320 A		RM2002	66323		
300	3	630 A		RM3002	66326		
Mounting base for circuit breaker For circuit breaker fixed, lever operated, through the door							
150	3		Tmax T1 (160 A)	RMS1501	66338		
150	3		Tmax T2 (160 A)	RMS1501	66338		
200	3		Tmax T3 (250 A)	RMS2001	66341		
200	3		Tmax T4 (320 A)	RMS2005	66363		
300	3		Tmax T5 (630 A)	RMS3001	66345		
Mounting base for circuit breaker For circuit breaker fixed, rotary handle , with door shaft extension For circuit breaker fixed, lever operated, behind the door (Form 2b)							
150	3		Tmax T1 (160 A)	RMS1502	66339		
150	3		Tmax T2 (160 A)	RMS1502	66339		
200	3		Tmax T3 (250 A)	RMS2002	66342		
200	3		Tmax T4 (320 A)	RMS2004	66344		
300	3		Tmax T5 (630 A)	RMS3002	66346		
Mounting base for circuit breaker For circuit breaker fixed, solenoid operated, throuh the door							
150	3		Tmax T1 (160 A)	RMS1503	66340		
150	3		Tmax T2 (160 A)	RMS1503	66340		
200	3		Tmax T3 (250 A)	RMS2003	66343		
Mounting base for circuit breaker For circuit breaker plug-in, lever operated, through the door							
150	3		Tmax T2 (160 A)	RMS1503	66340		
200	3		Tmax T3 (250 A)	RMS2003	66343		
200	3		Tmax T4 (320 A)	RMS2006	66364		
300	3		Tmax T5 (400 A)	RMS3003	66347		
Mounting base for circuit breaker For circuit breaker withdrawable, lever operated, through the door							
300	3		Tmax T4 (320 A)	RMS3002	66346		
300	3		Tmax T5 (400 A)	RMS3002	66346		
Mounting base universal for mounting plate with busbar contact set							
150				RMS1508	66503		
200				RMS2008	66504		
300				RMS3008	66505		

Compartment fixed with plugable contacts

◆2CPX0*****R9999

Accessories

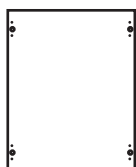
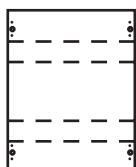
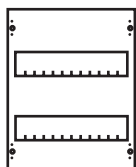
Compartment fixed with plugable contacts



			FLATPACK not mounted		MOUNTED installed in the cabinet	
Height in mm	Pole	For circuit breakerl	Type	Ord.-No.*	Type	Ord.-No.*
Touch protection for circuit breaker For circuit breaker fixed, lever operated, through the door						
150	3	Tmax T1 (160 A)	RB1501	66349		
150	3	Tmax T2 (160 A)	RB1501	66349		
200	3	Tmax T3 (250 A)	RB2001	66350		
200	3	Tmax T4 (320 A)	RB2001	66350		
300	3	Tmax T5 (630 A)	RB3001	66351		
Touch protection for circuit breaker For circuit breaker fixed, rotary handle , with door shaft extension						
150	3	Tmax T1 (160 A)	RB1501	66349		
150	3	Tmax T2 (160 A)	RB1501	66349		
200	3	Tmax T3 (250 A)	RB2001	66350		
200	3	Tmax T4 (320 A)	RB2001	66350		
300	3	Tmax T5 (630 A)	RB3001	66351		
Touch protection for circuit breaker For circuit breaker fixed, solenoid operated, throuh the door						
150	3	Tmax T1 (160 A)	RB1501	66349		
150	3	Tmax T2 (160 A)	RB1501	66349		
200	3	Tmax T3 (250 A)	RB2001	66350		
Touch protection for circuit breaker For circuit breaker plug-in, lever operated, through the door						
150	3	Tmax T2 (160 A)	RB1501	66349		
200	3	Tmax T3 (250 A)	RB2001	66350		
200	3	Tmax T4 (320 A)	RB2001	66350		
300	3	Tmax T5 (630 A)	RB3001	66351		
Touch protection for circuit breaker For circuit breaker withdrawable, lever operated, through the door						
300	3	Tmax T4 (320 A)	RB3001	66351		
300	3	Tmax T5 (400 A)	RB3001	66351		
Touch protection for circuit breaker For circuit breaker fixed, lever operated, behind the door (Form 2b) Made of transparent plastic, incl. fastening material						
150	3	Tmax T1 (160 A)	RB1505	62670		
150	3	Tmax T2 (160 A)	RB1505	62670		
200	3	Tmax T3 (250 A)	RB2005	62672		
200	3	Tmax T4 (320 A)	RB2007	62674		
300	3	Tmax T5 (400 A)	RB3006	62676		
Touch protection for Compartment universal with busbar contact set Made of transparent plastic, incl. fastening material						
150	3	Tmax T1 (160 A)	RB1502	66463		
150	3	Tmax T2 (160 A)	RB1502	66463		
200	3	Tmax T3 (250 A)	RB2002	66464		
200	3	Tmax T4 (320 A)	RB2002	66464		
300	3	Tmax T4 (400 A)	RB3002	66465		
300	3	Tmax T5 (630A)	RB3002	66465		

Accessories

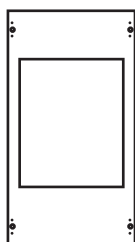
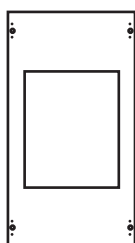
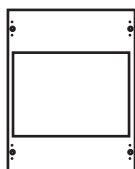
Distribution panel system CombiLine-M for use in the M&C area with the installation set for CombiLine-M Modules



				FLATPACK not mounted		MOUNTED installed in the cabinet	
GU	GU height in mm	Panel width in mm	SU	Type	Ord.-No.*	Type	Ord.-No.*
For DIN rail devices according to DIN 43880, DIN rail spacing 125 mm With DIN rails 35 mm x 15 mm							
1	150	250	12	MBG101	41650	MG101	41200
	150	500	24	MBG201	41651	MG201	41201
2	300	250	24	MBG102	41653	MG102	41203
	300	500	48	MBG202	41655	MG202	41205
3	450	250	36	MBG103	41659	MG103	41209
	450	500	72	MBG203	41661	MG203	41211
4	600	250	48	MBG104	41665	MG104	41215
	600	500	96	MBG204	41667	MG204	41217
Mounting plates steplessly depth adjustable							
1	150	250	12	MBM111	41707	MM111	41242
	150	500	24	MBM211	41708	MM211	41243
2	300	250	24	MBM112	41710	MM112	41245
	300	500	48	MBM212	41711	MM212	41246
3	450	250	36	MBM113	41713	MM113	41248
	450	500	72	MBM213	41714	MM213	41249
With DIN rails 35 mm x 15 mm on deep-mounting brackets For earthed or double insulated assembly							
1	150	250	12	MBK106	41677	MK106	41227
	150	500	24	MBK206	41679	MK206	41228
2	300	250	24	MBK107	41683	MK107	41230
	300	500	48	MBK207	41685	MK207	41231
Touch guard module Empty module							
1	150	250	12	MBB116	41722	MB116	41257
	150	500	24	MBB216	41723	MB216	41258
2	300	250	24	MBB117	41725	MB117	41260
	300	500	48	MBB217	41726	MB217	41261
3	450	250	36	MBB118	41728	MB118	41263
	450	500	72	MBB218	41729	MB218	41264
4	600	250	48	MBB119	41731	MB119	41266
	600	500	96	MBB219	41732	MB219	41267

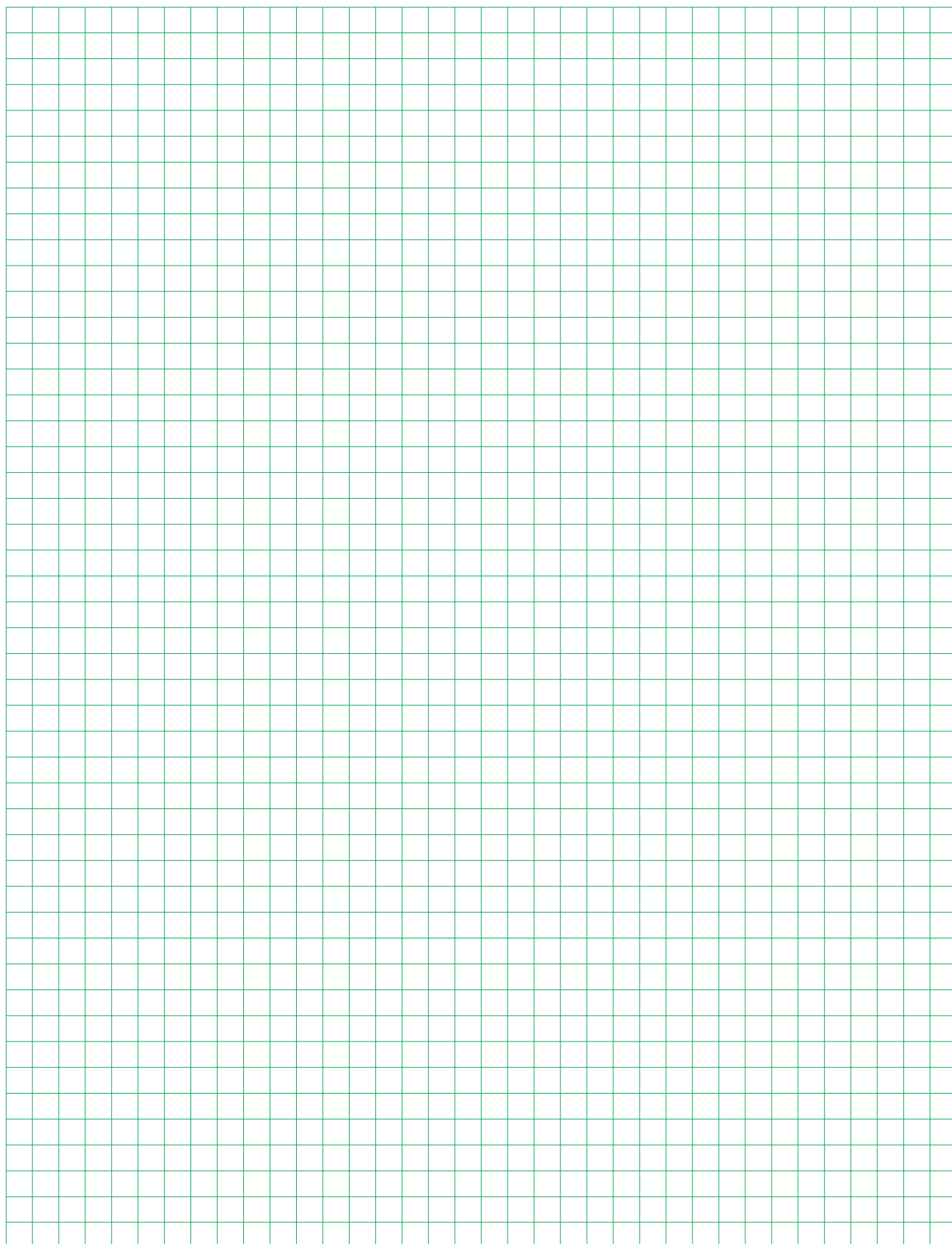
Accessories

Distribution panel system CombiLine-M for use in the M&C area with the installation set for CombiLine-M Modules



GU	GU height in mm	Panel width in mm	SU	Package contentt	FLATPACK not mounted Type	 Ord.-No.*	MOUNTED installed in the cabinet Type	 Ord.-No.*
Module prepared for fuse switch disconnectors size 00, 160 A For make: ABB, Jung Unequipped module								
Space for 1 x NH00 2	300	250	24		MBT135	42452	MT135	42450
Space for 2 x NH00 2	300	250	24		MBT136	41770	MT136	41299
Module prepared for fuse switch disconnectors size 1, 250 A For make: ABB, Jung Unequipped module Space for 1 x NH1								
3	450	250	36		MBT142	41776	MT142	41311
Module prepared for fuse switch disconnectors size 2, 400 A For make: ABB Unequipped module Space for 1 x NH2								
3	450	250	36		MBT144	41782	MT144	41323
Vertical EDF profiles								
3	450			1 20	ED9 ED9P20	39209 62312	EDM9	41457
4	600			1 20	ED10 ED10P20	39210 62313	EDM10	41458

For your notes



Technical Information



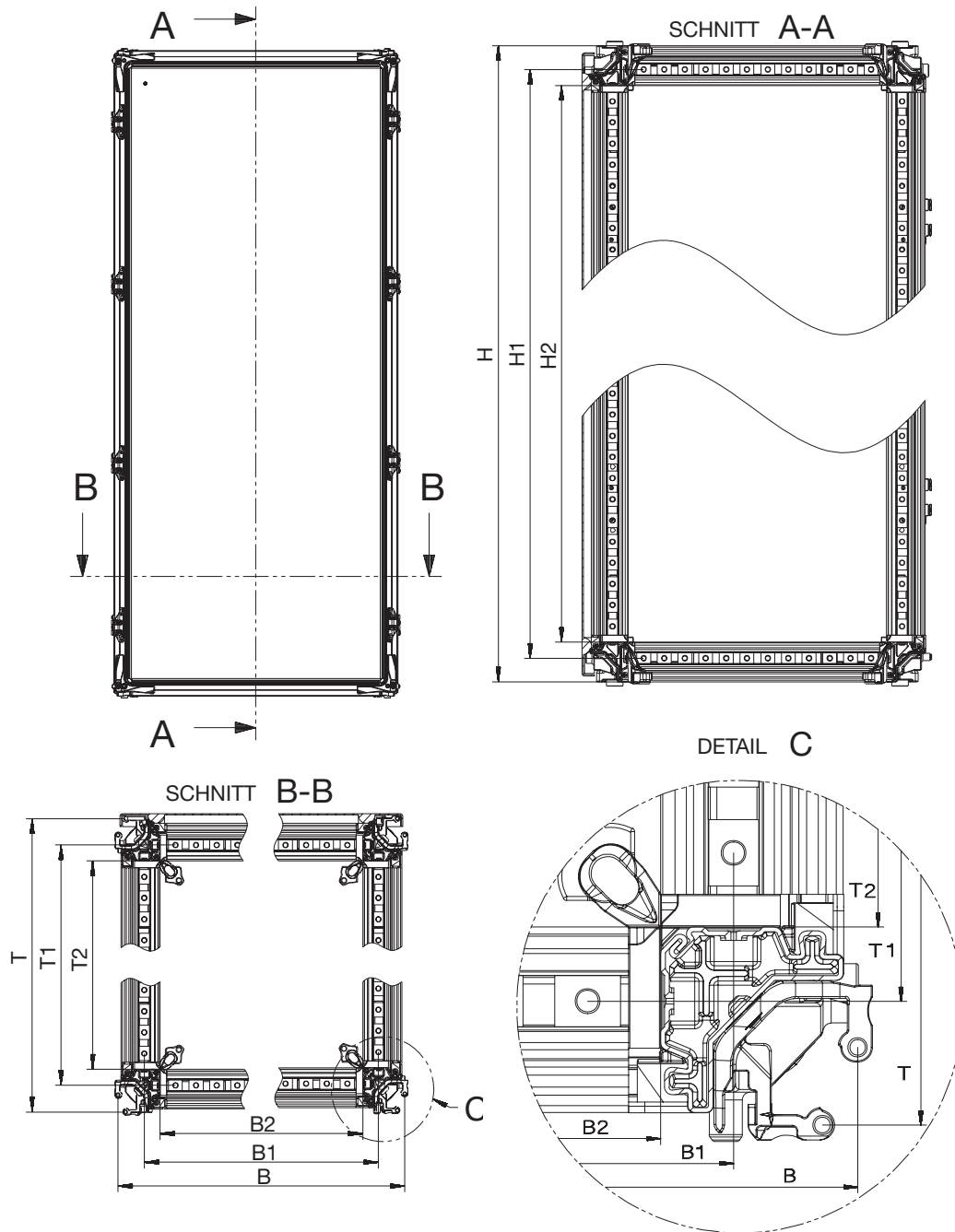
Technical Information

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Technical Information

TriLine® switchgear cabinet frames
with hinges RZ201



MOUNTED

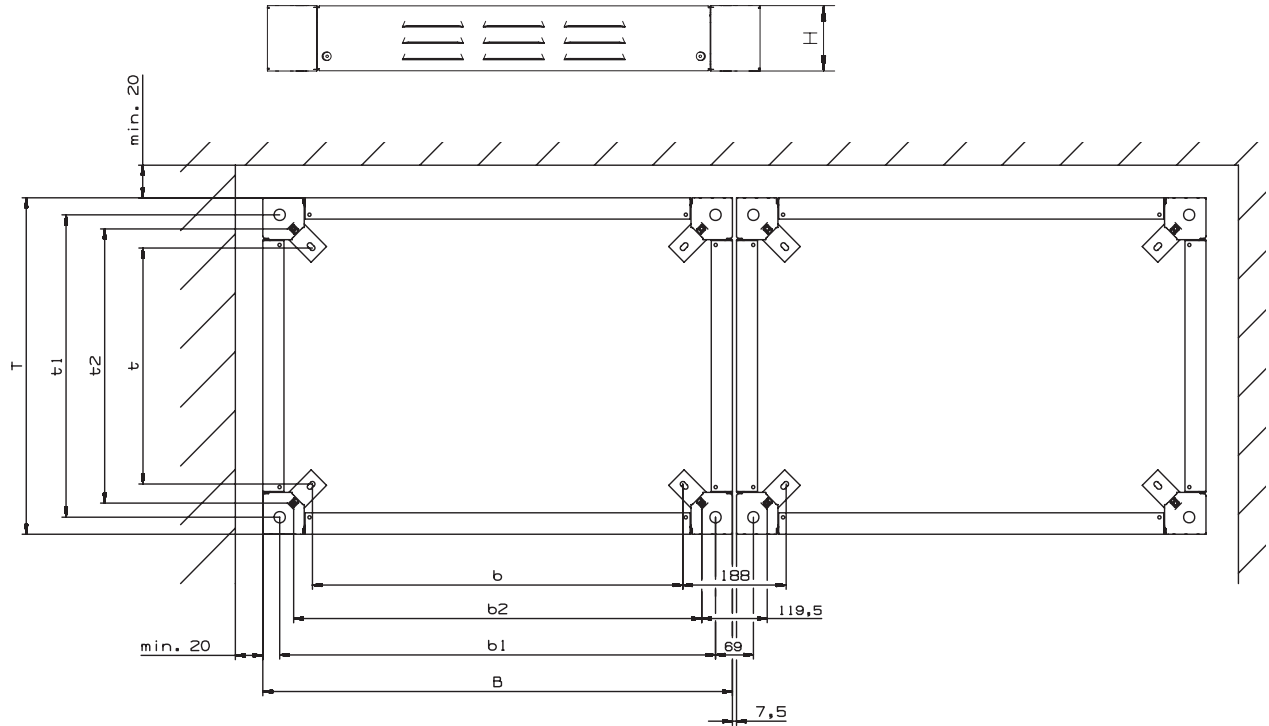
Cabinet frame assembled

H	B	T	H1	B1	T1	H2	B2	T2	Power loss Pv in W	Weight in Kg	Type
1906	489	613	1850	425	550	1813	388	513	302	37	15/8RLG6A
1906	614	613	1850	550	550	1813	513	513	357	53	2/8RLG6A
1906	739	613	1850	675	550	1813	638	513	412	55	25/8RLG6A
1906	864	613	1850	800	550	1813	763	513	466	60	3/8RLG6A
1906	989	613	1850	925	550	1813	888	513	???	65	35/8RLG6A
1906	1114	613	1850	1050	550	1813	1013	513	525	70	4/8RLG6A

Dimensions in mm

Technical Information

TriLine® plinth

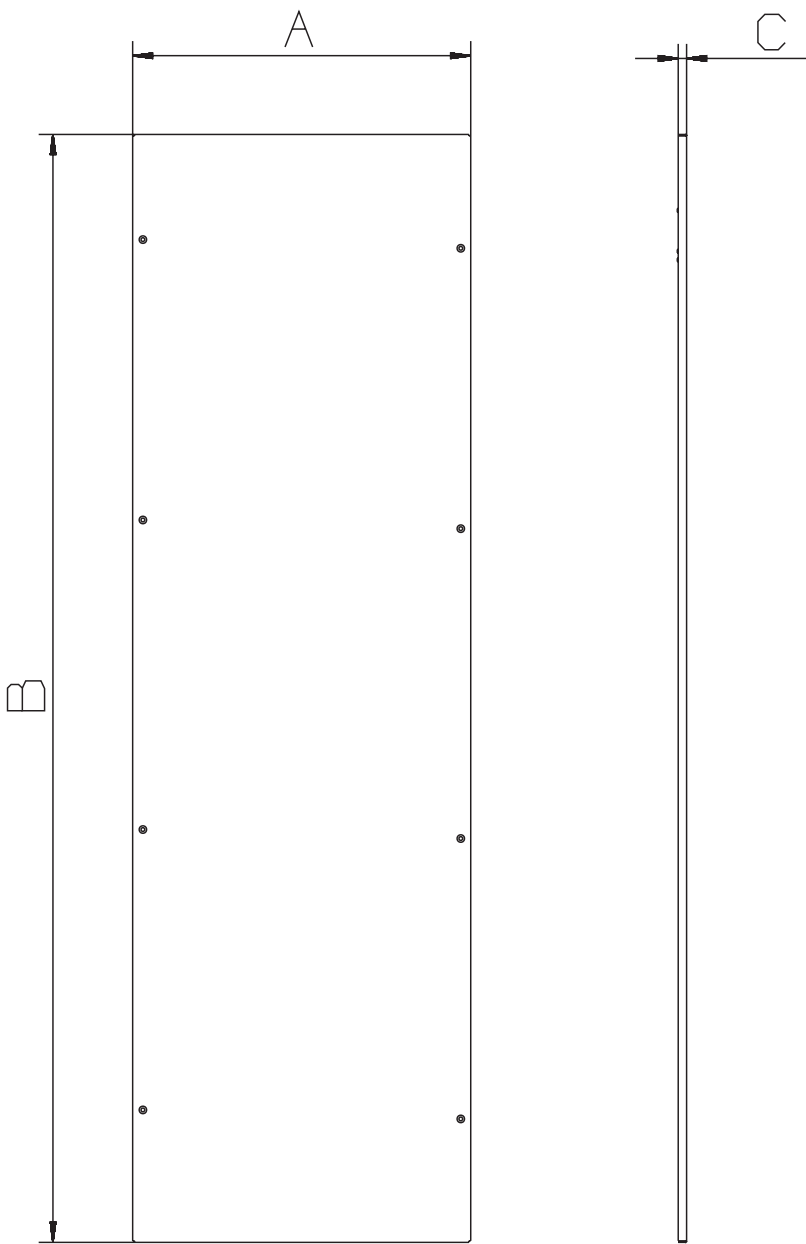


The plinth has to be mounted with a minimum space of 20 mm between the rear of the plinth and the wall, due to overhang of the rear or side walls.
 There is a space of 7,5 mm between plinths.
 Assemble the cabinet on the plinth prior to fixing the plinth to the floor.

									FLATPACK not mounted	MOUNTED installed in the cabinet
B	b	b1	b2	T	t	t1	t2	H	Type	Type
481	300	420	369	606	425	545	494	100	RSR156L	RSR156LA
606	425	545	494	606	425	545	494	100	RSR26L	RSR26LA
731	550	670	619	606	425	545	494	100	RSR256L	RSR256LA
856	675	795	744	606	425	545	494	100	RSR36L	RSR36LA
981	800	920	869	606	425	545	494	100	RSR356L	RSR356LA
1106	925	1045	994	606	425	545	494	100	RSR46L	RSR46LA

Dimensions in mm

Technical Information
TriLine® side wall

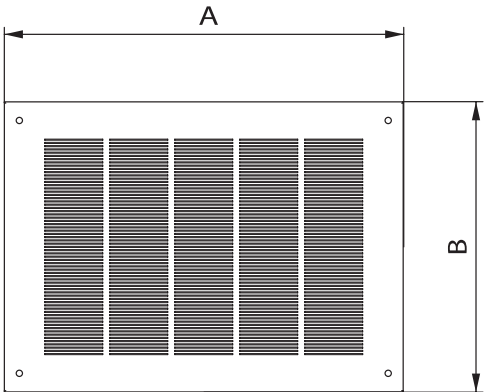


Total width of the cabinet combination = dimensions of the individual cabinets + 10 mm (5 mm each)
for left and right side walls

				FLATPACK not mounted	MOUNTED installed on the cabinet
A	B	C	Weight in kg	Type	Type
590	1891	13	28	RS86P2	RS86P2A
Dimensions in mm					

Technical Information

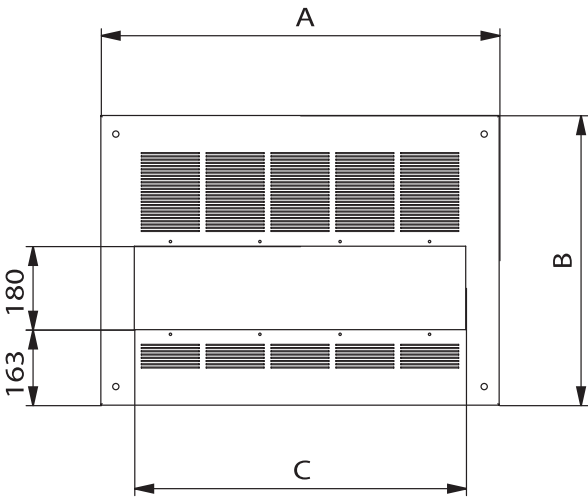
TriLine® top plates



Top plates with ventilation slots, without cut-out, section depth 625 mm

A	B
484	625
609	625
734	625
859	625
984	625
1109	625
Dimensions in mm	

	FLATPACK not mounted	MOUNTED installed on the cabinet
Type	Type	
RDA15630		RDA15630A
RDA2630		RDA2630A
RDA25630		RDA25630A
RDA3630		RDA3630A
RDA35630		RDA35630A
RDA4630		RDA4630A



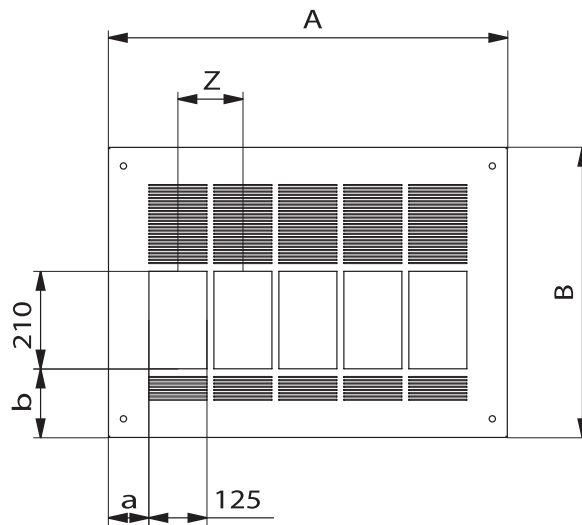
Top plates with ventilation slots and cut-out for flange plates (RF...), section depth 625 mm
For incoming / outgoing sections with horizontal cable area

A	B	C
484	625	340
609	625	465
734	625	590
859	625	715
984	625	840
1109	625	965
Dimensions in mm		

	FLATPACK not mounted	MOUNTED installed on the cabinet
Type	Type	
RDB15630		RDB15630A
RDB2630		RDB2630A
RDB25630		RDB25630A
RDB3630		RDB3630A
RDB35630		RDB35630A
RDB4630		RDB4630A

Technical Information

TriLine® top plates



Top plates with ventilation slots and cut-out for cable entry flanges (ZW...), section depth 625 mm
For incoming / outgoing sections with horizontal cable area

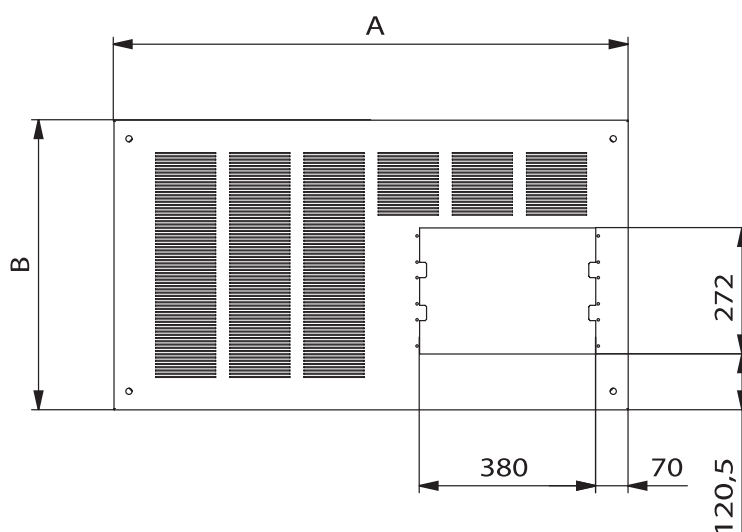
FLATPACK
not mounted

MOUNTED
installed on the
cabinet

A	B	a	b	Z
484	625	100	148	160
609	625	82	148	160
734	625	80	148	150
859	625	100	148	140
984	625	80	148	140
1109	625	92	148	160

Dimensions in mm

Type	Type
RDC15630	RDC15630A
RDC2630	RDC2630A
RDC25630	RDC25630A
RDC3630	RDC3630A
RDC35630	RDC35630A
RDC4630	RDC4630A



Top plates with ventilation slots and cut-out for flange plates (RF...), section depth 625 mm
For outgoing sections with vertical cable area

FLATPACK
not mounted

MOUNTED
installed on the
cabinet

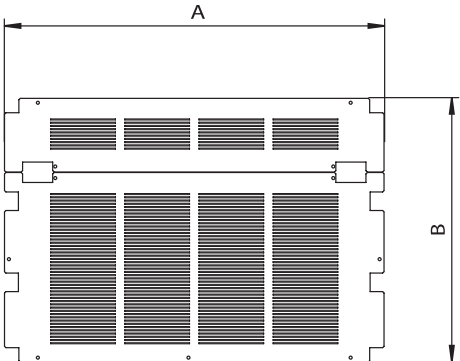
A	B
1109	625

Dimensions in mm

Type	Type
RDE4630	RDE4630A

Technical Information

TriLine® bottom plates

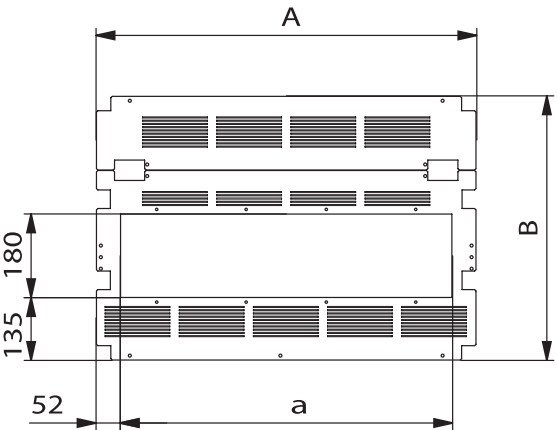


Bottom plates with ventilation slots without cut-out for cable entry, section depth 625 mm

A	B
444	569
569	569
694	569
819	569
944	569
1069	569

Dimensions in mm

FLATPACK not mounted	MOUNTED installed in the cabinet
Type	Type
RBA156L	RBA156LA
RBA26L	RBA26LA
RBA256L	RBA256LA
RBA36L	RBA36LA
RBA356L	RBA356LA
RBA46L	RBA46LA



Bottom plates with ventilation slots and cut-out for flange plates (RF...), section depth 625 mm
For incoming / outgoing sections with horizontal cable area

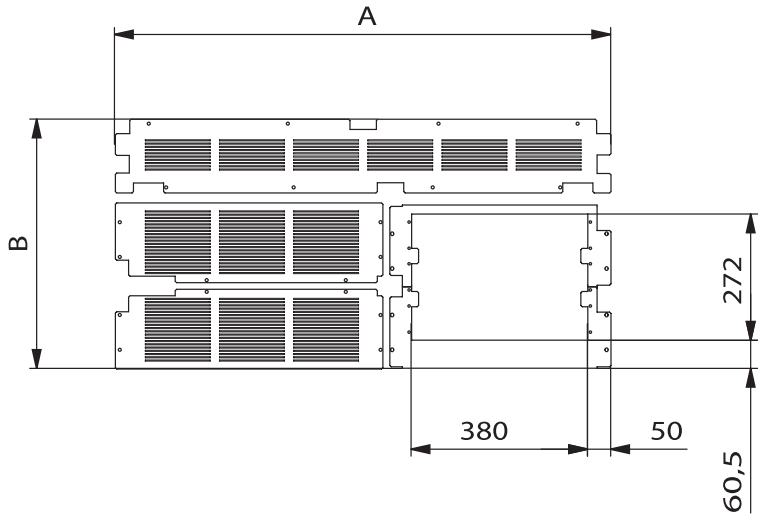
A	B	a
444	569	340
569	569	465
694	569	590
819	569	715
944	569	840
1069	569	965

Dimensions in mm

FLATPACK not mounted	MOUNTED installed in the cabinet
Type	Type
RBB156L	RBB156LA
RBB26L	RBB26LA
RBB256L	RBB256LA
RBB36L	RBB36LA
RBB356L	RBB356LA
RBB46L	RBB46LA

Technical Information

TriLine® bottom plates



Bottom plates with ventilation slots and cut-out for flange plates (RF...), section depth 625 mm
For outgoing sections with vertical cable area

FLATPACK
not mounted

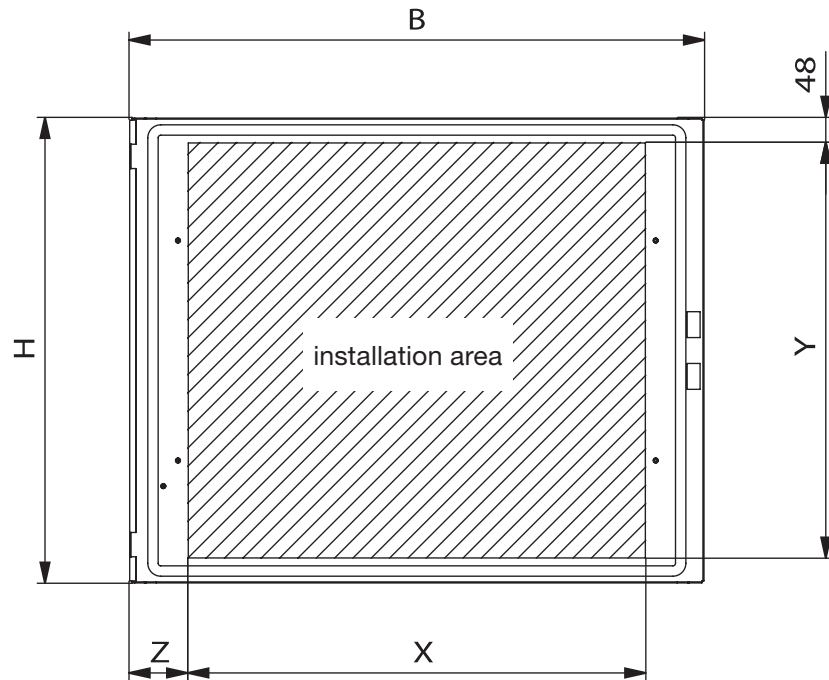
MOUNTED
installed in the cabinet

A	B
1069	539
Dimensions in mm	

Type	Type
RBE46L	RBE46LA

Technical Information

TriLine® sectional doors without cut-out



FLATPACK
not mounted

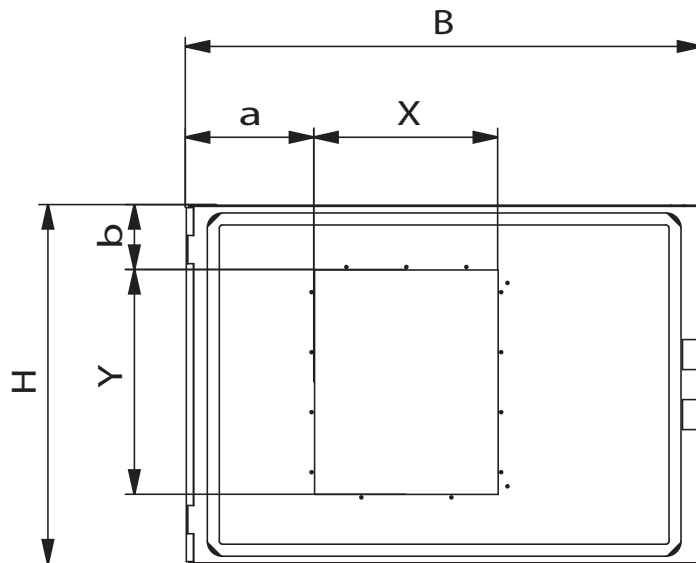
MOUNTED
installed on the
cabinet

Panel width (PW)	B	H	X	Y	Z	Type	Type
1,5	485	448	285	352	100	RTS1545	RTS1545A
1,5	485	598	285	502	100	RTS1560	RTS1560A
1,5	485	748	285	652	100	RTS1575	RTS1575A
1,5	485	898	285	802	100	RTS1590	RTS1590A
2	610	448	383	352	113	RTS245	RTS245A
2	610	598	295	502	113	RTS260	RTS260A
2	610	748	383	652	113	RTS275	RTS275A
2	610	898	383	802	113	RTS290	RTS290A
2,5	735	448	508	352	113	RTS2545	RTS2545A
2,5	735	598	285	502	113	RTS2560	RTS2560A
2,5	735	748	508	652	113	RTS2575	RTS2575A
2,5	735	898	508	802	113	RTS2590	RTS2590A
3	860	448	633	352	113	RTS345	RTS345A
3	860	598	308	502	113	RTS360	RTS360A
3	860	748	633	652	113	RTS375	RTS375A
3	860	898	633	802	113	RTS390	RTS390A
3,5	985	448	758	352	113	RTS3545	RTS3545A
3,5	985	598	433	502	113	RTS3560	RTS3560A
3,5	985	748	758	652	113	RTS3575	RTS3575A
3,5	985	898	758	802	113	RTS3590	RTS3590A
4	1110	448	883	352	113	RTS445	RTS445A
4	1110	598	558	502	113	RTS460	RTS460A
4	1110	748	883	652	113	RTS475	RTS475A
4	1110	898	883	802	113	RTS490	RTS490A

Dimensions in mm

Technical Information

TriLine® sectional doors with cut-out for circuit breaker

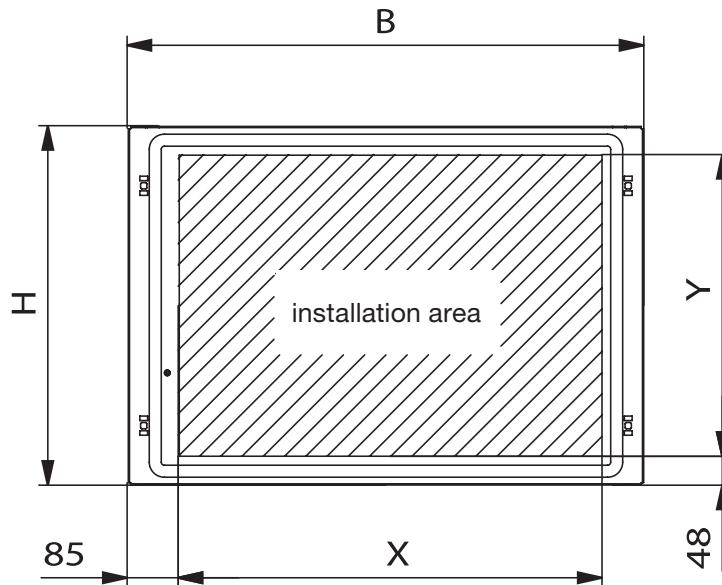


Panel width (PW)	B	H	a	X	b	Y	FLATPACK not mounted	MOUNTED installed on the cabinet
							Type	Type
1,5	485	598	129	226	148	263	RTSD11560	RTSD11560A
1,5	485	598	129	226	187	263	RTSD41560	RTSD41560A
1,5	485	598	93	278	155	256	RTSD61560	RTSD61560A
1,5	485	598	113	278	187	256	RTSD31560	RTSD31560A
2	610	598	107	306	108	374	RTSG7260	RTSG7260A
2	610	598	197	306	116	374	RTSG8260	RTSG8260A
3	860	598	214	306	108	374	RTSH7360	RTSH7360A
3	860	598	197	306	116	374	RTSH8360	RTSH8360A

Dimensions in mm

Technical Information

TriLine® sectional covers without cut-out

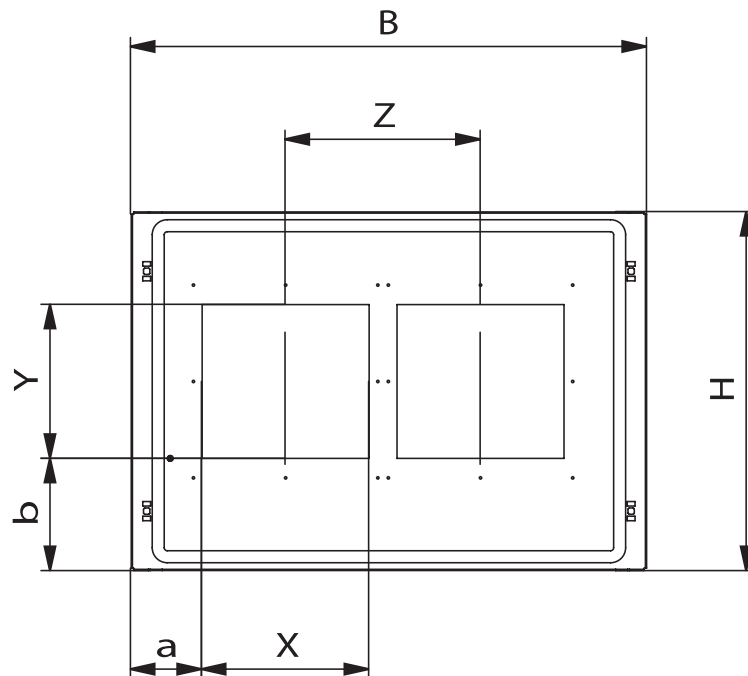


Panel width (PW)	B	H	X	Y	FLATPACK not mounted	MOUNTED installed on the cabinet
					Type	Type
1,5	485	598	330	502	RTB1560	RTB1560A
2	610	598	455	502	RTB260	RTB260A
2	610	898	455	802	RTB290	RTB290A
2	610	1348	455	1252	RTB213	RTB213A
2,5	735	598	580	502	RTB2560	RTB2560A
3	860	598	705	502	RTB360	RTB360A
3	860	898	705	502	RTB390	RTB390A
3	860	1348	705	1252	RTB313	RTB313A
3,5	985	598	830	502	RTB3560	RTB3560A
4	1110	598	955	502	RTB460	RTB460A
4	1110	898	955	802	RTB490	RTB490A
4	1110	1348	955	1252	RTB413	RTB413A

Dimensions in mm

Technical Information

TriLine® sectional covers with cut-out for circuit breaker

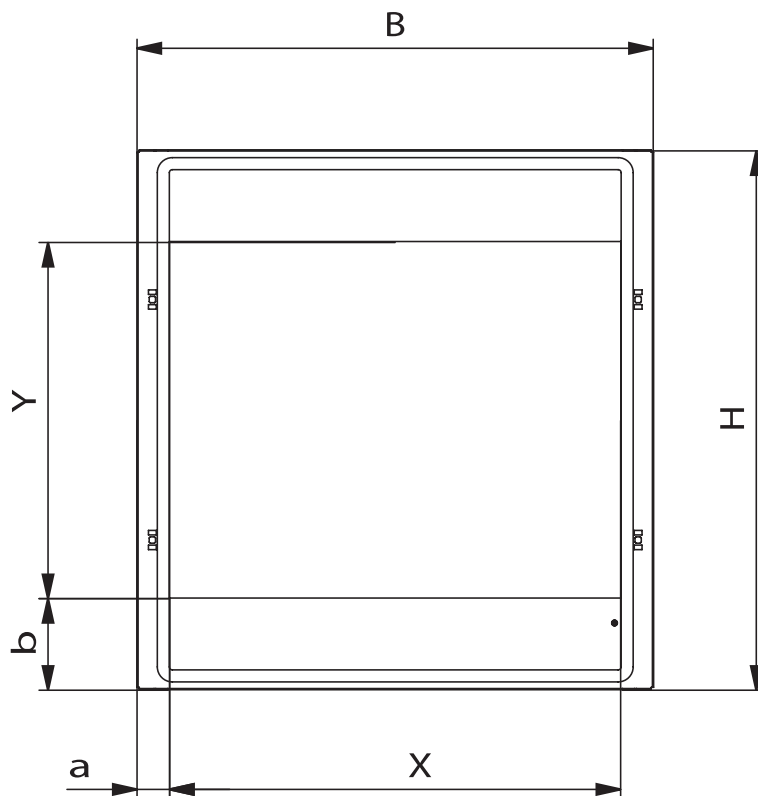


Panel width (PW)	B	H	Z	a	X	b	Y	FLATPACK not mounted	MOUNTED installed in the cabinet
								Type	Type
2,5	735	598	275	117	226	187	263	RTBE12560	RTBE12560A
3	860	598	325	118	279	187	260	RTBE3360	RTBE3360A
4	1110	598	275	167	226	187	263	RTBF1460	RTBF1460A

Dimensions in mm

Technical Information

TriLine® sectional covers with cut-out
for SlimLine/InLine devices

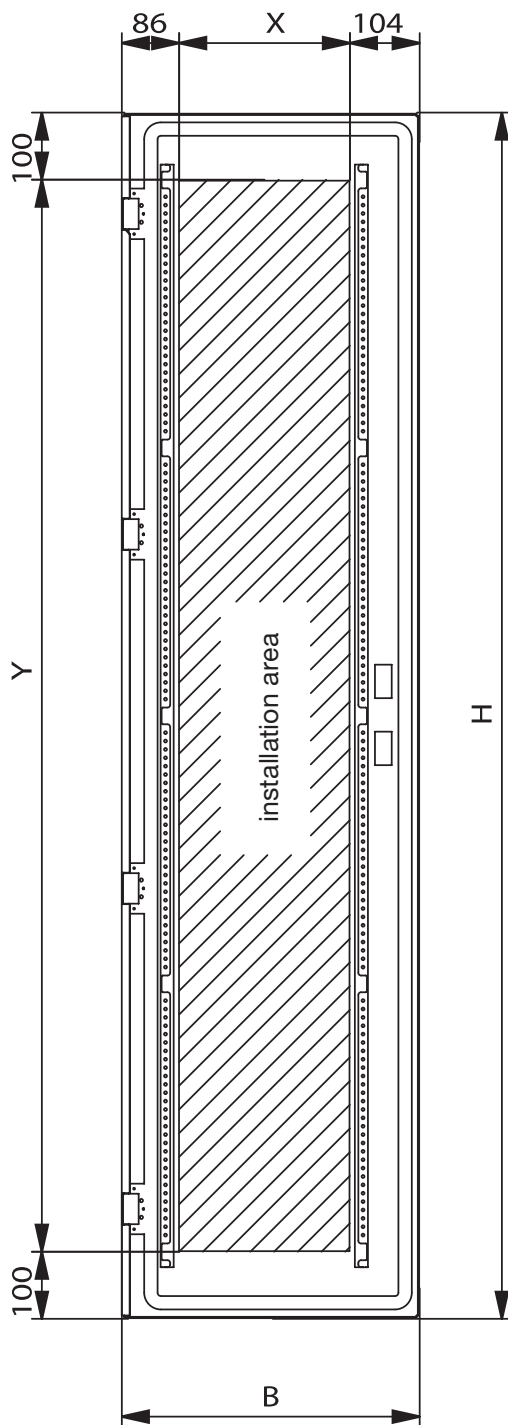


Panel width (PW)	B	H	a	X	b	Y	FLATPACK not mounted	MOUNTED installed in the cabinet
							Type	Type
2	609,5	898	54,25	501	152,5	593	RTBMD290	RTBMD290A
3	859,5	898	54,25	751	152,5	593	RTBMD390	RTBMD390A
2	609,5	898	54,25	501	165	573	RTBUD290	RTBUD290A
3	859,5	898	54,25	751	165	573	RTBUD390	RTBUD390A
2	609,5	1348	54,25	501	574	601	RTBND213	RTBND213A
3	859,5	1348	54,25	751	574	601	RTBND313	RTBND313A
2	609,5	1348	54,25	501	527	650	RTBVD213	RTBVD213A
3	859,5	1348	54,25	751	527	650	RTBVD313	RTBVD313A

Dimensions in mm

Technical Information

TriLine® cable area door

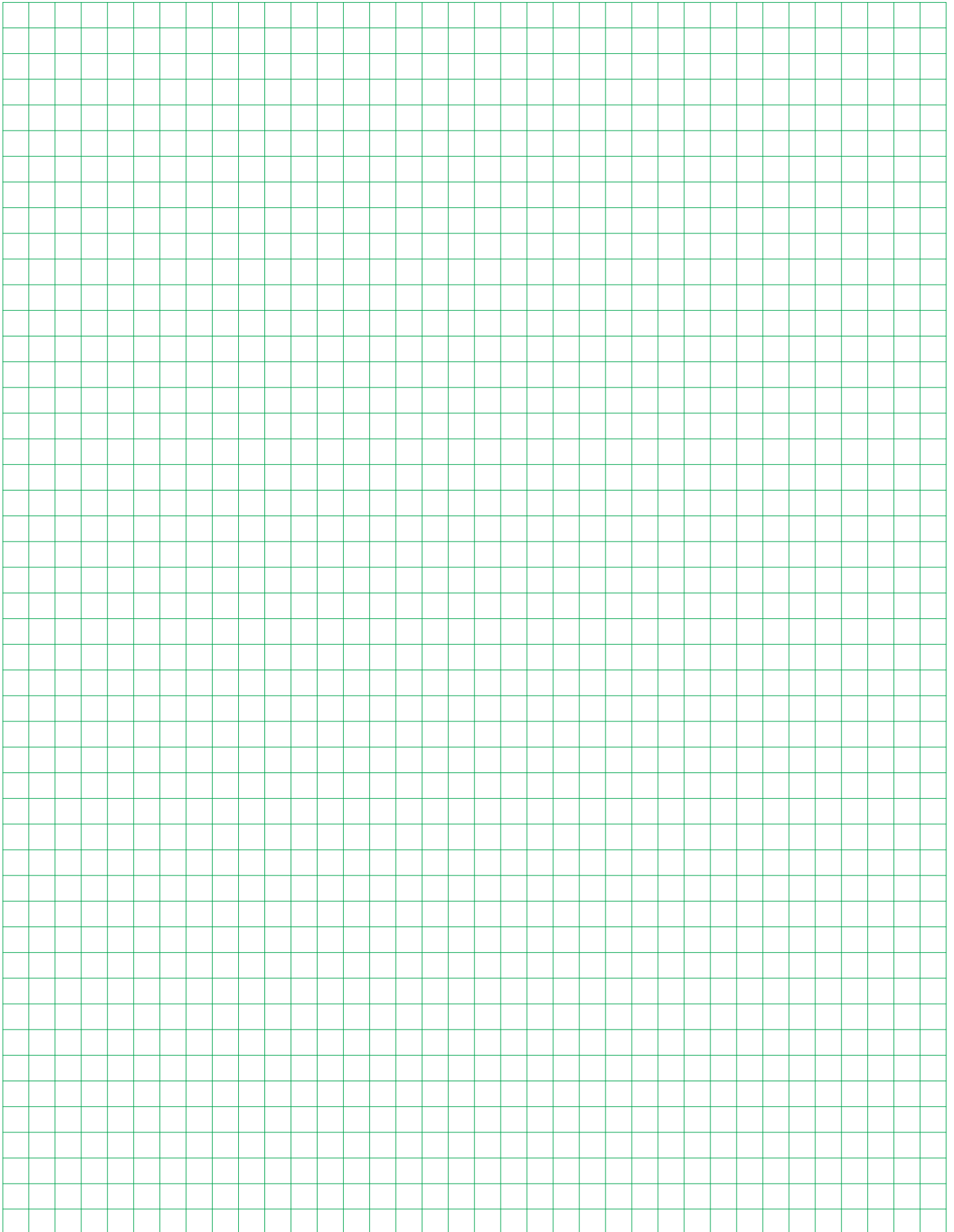


B	H	X	Y
444	1798	256	1598

Dimensions in mm

FLATPACK	MOUNTED
not mounted	installed on the cabinet
Type	Type
RTK48R	RTK48RA

For your notes



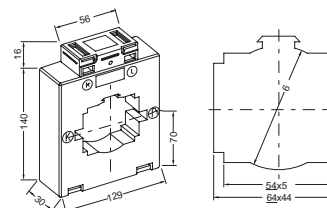
Current transformer installation

Terminal busbar system (TBB)



Rated current (I_n) in A	Cu busbars Dimensions in mm	Device version	Type flatpack	Max. No. of CT per pole	Type CT Redur	Dimension drawing of CT Redur
CBB copper, 3-pole					For breaker ABB T7 / X1	
1000	1 x Cu 50 x 10	fixed withdrawable	PAC1031G1A PAC1031G3A	3 3	7A512.3 7A512.3	
1250	1 x Cu 60 x 10	fixed withdrawable	PAC1231G1A PAC1231G3A	3 2	8A615.3 8A615.3	
1600	2 x Cu 50 x 10	fixed withdrawable	PAC1631G1A PAC1631G3A	3 2	8A615.3 8A615.3	
CBB copper, 3-pole					For breaker ABB E2	
2000	2 x Cu 60 x 10	fixed withdrawable	PAC2031I1A PAC2031I3A	2 2	9A640.3 9A640.3	
CBB copper, 3-pole					For breaker ABB E3	
2500	2 x Cu 100 x 10	fixed withdrawable	PAC2531J1A PAC2531J3A	1 1	13A1056.3 13A1056.3	

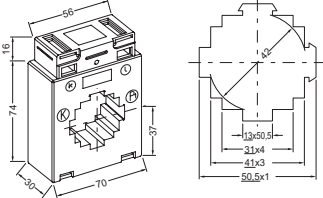
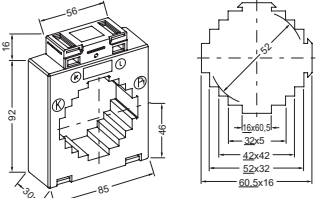
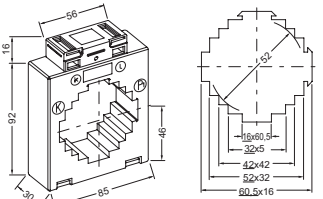
Circuit breaker - Circuit breaker (CB - CB)



Current transformer installation

Connecting busbar system (CBB)

Main busbar system - Circuit breaker (MBB - CB)

Rated current (I_n) in A	Cu busbars Dimensions in mm	Device version	Type flatpack	Max. No. of CT per pole	Type CT Redur	Dimension drawing of CT Redur
Connection to the MBB in the rear, top or bottom, standing arrangement, 3-pole, section depth 625 mm For breaker ABB T7 / X1						
1000	1 x Cu 50 x 10	fixed withdrawable	PWC103RGBA	3	7A512.3	
			PWC103RGSA	3	7A512.3	
		fixed withdrawable	PWC103RGCA	3	7A512.3	
			PWC103RGTA	3	7A512.3	
		fixed withdrawable	PWC103RGDA	1	7A512.3	
			PWC103RGUA	1	7A512.3	
1250	1 x Cu 60 x 10	fixed withdrawable	PWC123RGBA	3	8A615.3	
			PWC123RGSA	3	8A615.3	
		fixed withdrawable	PWC123RGCA	3	8A615.3	
			PWC123RGTA	2	8A615.3	
		fixed withdrawable	PWC123RGDA	1	8A615.3	
			PWC123RGUA	1	8A615.3	
1600	2 x Cu 50 x 10	fixed withdrawable	PWC163RGBA	3	8A615.3	
			PWC163RGSA	3	8A615.3	
		fixed withdrawable	PWC163RGCA	3	8A615.3	
			PWC163RGTA	2	8A615.3	
		fixed withdrawable	PWC163RGDA	1	8A615.3	
			PWC163RGUA	0	8A615.3	

Current transformer installation

Connecting busbar system (CBB)

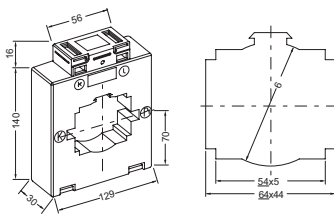
Main busbar system - Circuit breaker (MBB - CB)

Rated current (I_n) in A	Cu busbars Dimensions in mm	Device version	Type flatpack	Max. No. of CT per pole	Type CT Redur	Dimension drawing of CT Redur
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Connection to the MBB in the rear, top or bottom, standing arrangement, 3-pole, section depth 625 mm

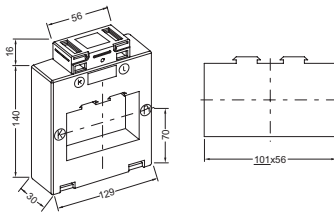
For breaker **ABB E2**

Copper busbars incl. fastening material and connecting screws for device

2000	2 x Cu 60 x 10	fixed	PWC203RIBA	2	9A640.3	
		withdrawable	PWC203RISA	2	9A640.3	
		fixed	PWC203RICA	---	---	
		fixed	PWC203RIDA	---	---	

Connection to the MBB in the rear, top or bottom, standing arrangement, 3-pole, section depth 625 mm

For breaker **ABB E3**

2500	2 x Cu 100 x 10	fixed	PWC253RJBA	1	13A1056.3	
		withdrawable	PWC253RJSA	---	---	
		fixed	PWC253RJCA	---	---	

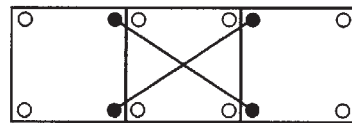
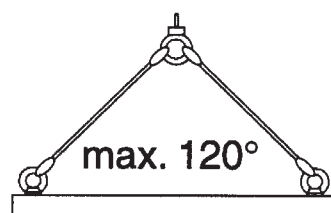
Technical Information

TriLine® crane transport, cabinet combination

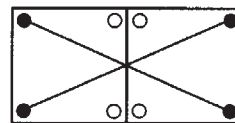
Lifting of TriLine® enclosures is possible as indicated.

Always use the STRIEBEL & JOHN transportation lugs type RZ11P4.

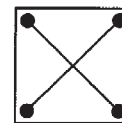
Also consider the weight limits of cabinet combinations as indicated.



max.
400 kg + 400 kg + 400 kg



max.
600 kg + 600 kg



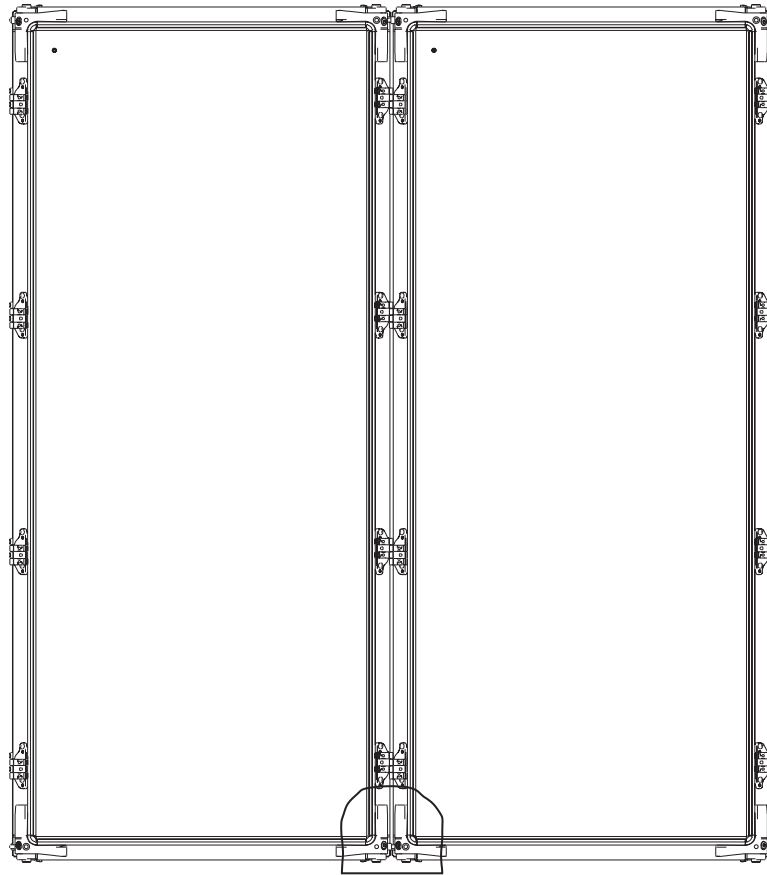
max.
1200 kg

Cabinet connection with RZ33 or RZ149

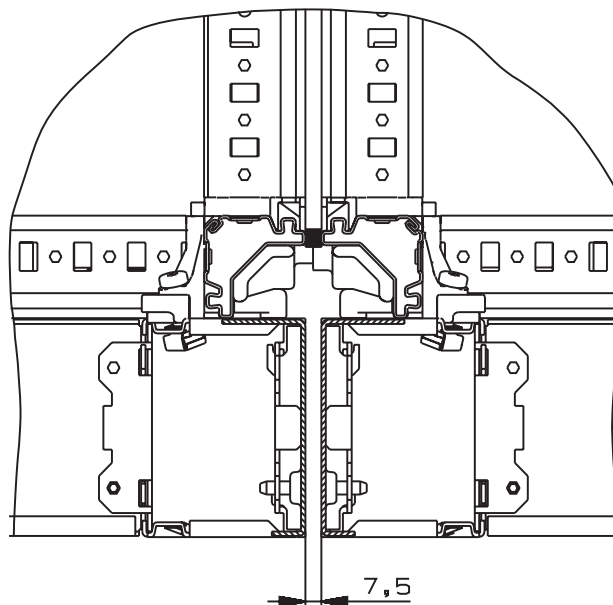
		1,5 FB	2 FB	2,5 FB	3 FB	3,5 FB	4 FB
	maximum weight per cabinet	1200 kg	1200 kg	1200 kg	1200 kg	1200 kg	1200 kg
	maximum total weight	1200 kg	1200 kg	1200 kg	1200 kg	1200 kg	1200 kg
	maximum weight per cabinet	600 kg	600 kg	600 kg	600 kg	-	-
	maximum total weight	1200 kg	1200 kg	1200 kg	1200 kg	-	-
	maximum weight per cabinet	400 kg	400 kg	400 kg	400 kg	-	-
	maximum total weight	1200 kg	1200 kg	1200 kg	1200 kg	-	-

Technical Information

TriLine® cabinet combination



Total width of the cabinet combination = Dimensions of the individual cabinets + 10 mm (5 mm each) for left and right side walls



Plinths are placed 7,5 mm apart.
Mount the cabinet on the plinth before fixing the plinth to the floor.

Dimensions in mm

Technical Information

Rated currents and short-circuit currents of standard transformers

Rated voltage U_n	400 V / 240 V			525 V			693 V / 400 V		
Short-circuit voltage U_k		4%	6%		4%	6%		4%	6%
Rated power (kVA)	Rated current I_N (A)	Short-circuit current I_k (A)		Rated current I_N (A)	Short-circuit current I_k (A)		Rated current I_N (A)	Short-circuit current I_k (A)	

50	72	1805	-	55	1375	-	42	1042	-
100	144	3610	2406	110	2750	1833	84	2084	1392
160	230	5776	3850	176	4400	2933	133	3325	2230
200	288	7220	4812	220	5500	3667	168	4168	2784
250	360	9025	6015	275	6875	4580	210	5220	3560
315	455	11375	7583	346	8660	5775	263	6650	4380
400	578	14450	9630	440	11000	7333	336	8336	5568
500	722	18050	12030	550	13750	9166	420	10440	7120
630	910	22750	15166	693	17320	11550	526	13300	8760
800	1156	-	19260	880	-	14666	672	-	11136
1000	1444	-	24060	1100	-	18333	840	-	13920
1250	1805	-	30080	1375	-	22916	1050	-	17480
1600	2312	-	38530	1760	-	29333	1330	-	22300
2000	2888	-	48120	2200	-	36666	1680	-	27840

$$I_k = \frac{I_N}{U_k (\%)} \times 100\%$$

U_k = short-circuit voltage in %

Technical Information

Degree of protection

1st digit: Protection against penetration of solid bodies

2nd digit: Protection against penetration of water

IP		IP	
0	No protection	0	No protection
1	Protected against solid bodies larger than 50 mm (accidental contact with hands)	1	Protected against vertical fall drops of water (condensation)
2	Protected against solid bodies larger than 12 mm or objects of length not exceeding 80 mm	2	Protected against drops of water up to 15° from vertical
3	Protected against solid bodies larger than 2.5 mm	3	Protected against drops of water up to 60° from vertical
4	Protected against solid bodies larger than 1.0 mm	4	Protected against splashes of water from all directions
5	Protected against dust (no harmful deposit)	5	Protected against jets of water from all directions by means of a hose
6	Totally protected against dust	6	Protected against jets of water similar to sea waves
1st digit defined by the IEC 60529 Standard		7	Protected against the effects of temporary immersion
		8	Protected against the effects of continual immersion
		2nd digit defined by the IEC 60529 Standard	

As shown in the above table, the IP degree of protection is indicated by two digits, which are allocated according to the behavior of the product as per IEC 60529 standard

Technical Information

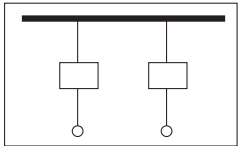
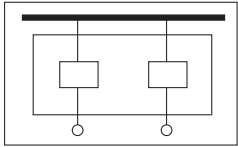
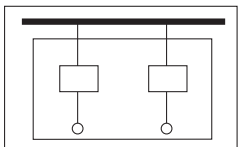
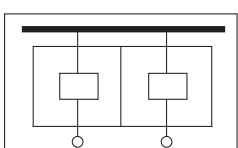
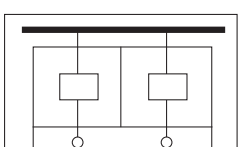
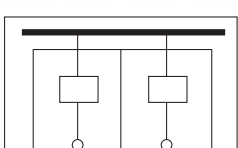
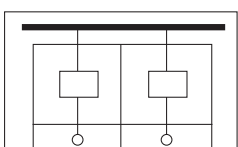
Temperature rise limits

Temperature rise limits for switchgear assemblies according to IEC 61439-1 / -2

Parts of the switchgear assembly	Temperature rise limit in K
Built in components	In accordance with the relevant product standard requirements for the individual components or, in accordance with the component manufacturer's instructions, taking into consideration the temperature in the ASSEMBLY
– conventional switchgear and controlgear	
– electronic sub-assemblies	
– parts of the equipment	
Terminals of external insulated conductors	70 K
– busbars	Limited by: – mechanical strength of conducting material – possible effect on adjacent equipment – permissible temperature limit of the insulating materials in contact with the conductor – effect of the temperature of the conductor on the apparatus connected to it – nature and surface treatment of the contact material
– conductors	
– plug in contacts of removable or withdrawable parts	
Operating parts accessible from outside	
– of metal	
– of insulating material	15 K
Touchable external parts of enclosure or cladding, which are accessible from outside	25 K
– of metal	30 K
– of insulating material	
Touchable external parts of enclosure or cladding, which are accessible from outside, but do not need to be touched during normal operation	40 K
– of metal	40 K
– of insulating material	
Plug and socket type connections	50 K
	Determined by the limit for those components of the related equipment of which they form part

Technical Information

Internal form of separation

Form	Main criteria	Subcriteria	Figure
Form 1	No internal separation		
Form 2a	Separation of busbars from the functional units	Terminals for external conductors not separated from busbars	
Form 2b	Separation of busbars from the functional units	Terminals for external conductors separated from busbars	
Form 3a	Separation of busbars from the functional units Separation of all functional units from one another Separation of terminals for external conductors from the functional units, but not from those of other functional units	Terminals for external conductors not separated from busbars	
Form 3b	Separation of busbars from the functional units Separation of all functional units from one another Separation of terminals for external conductors from the functional units, but not from those of other functional units	Terminals for external conductors separated from busbars	
Form 4a	Separation of busbars from all functional units Separation of all functional units from one another Separation of terminals for external conductors associated with a functional unit from those of any other functional unit and the busbars	Terminals for external conductors in the same compartment as the associated functional unit	
Form 4b	Separation of busbars from all functional units Separation of all functional units from one another Separation of terminals for external conductors associated with a functional unit from those of any other functional unit and the busbars	Terminals for external conductors not in the same compartment as the associated functional unit, but in individual, separate, enclosed protected spaces or compartments	

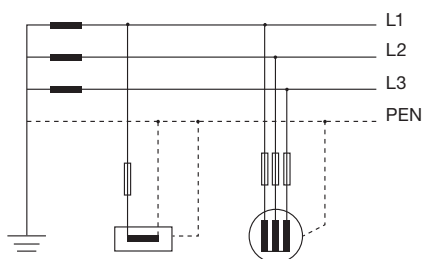
Technical Information

Grid systems

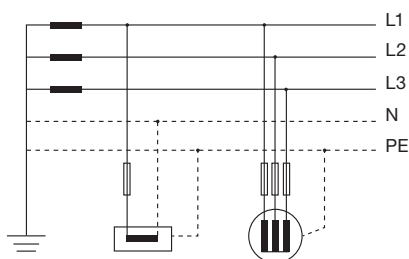
Evaluation of the types of earthing for systems, and protective measures in low voltage switchgear assemblies

System	Advantages	Disadvantages	Preferred application
TN system	Fast disconnection of errors or short circuits, Least dangers for persons and equipment.	High cable laying effort due to protective conductor, every fault leads to system downtime.	Power stations, public power supply.
TT system	Low cable laying effort, different voltages allowed in different areas, can be combined with TN system.	Complicated system earthing ($\leq 2 \Omega$). Supplementary (local) equipotential bonding required for every building.	Animal farming applications.
IT system	Low cable laying effort, high availability of supply: 1. Fault is signalled, 2. Fault is disconnected.	All equipment must be insulated for the voltage between the outer conductors. Equipotential bonding necessary.	Hospitals, industrial applications.
Protective insulation	Highest safety level, can be combined with other systems.	Double insulation of equipment is only economic with smaller equipment. Fire hazard with thermal equipment due to insulating materials.	Household, electrical distribution and equipment in smaller dimensions.
Protection by extra low voltage	No dangerous voltage in case of direct or indirect contact.	Restricted power for equipment in commercial applications, special specifications apply for circuits.	Small appliances.

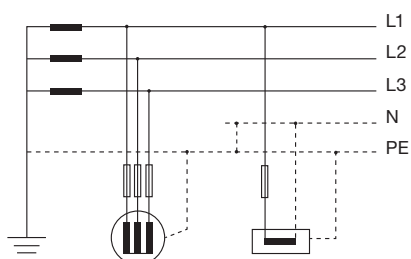
TN - C system



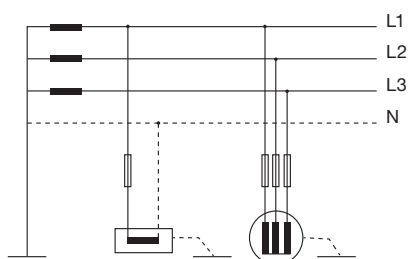
TN - S system



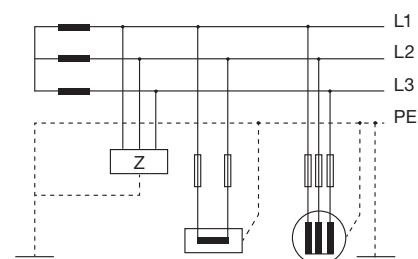
TN - C - S system



TT - system



IT - system



Technical Information

Utilization categories for switchgear

Utilization categories for switchgear to IEC 60947-3 (VDE 0660 Part 107) for alternating current

Utilization category		
Frequent operation	Occasional operation	Typical applications
AC-20A*)	AC-20B*	Closing and opening without load
AC-21A	AC-21B	Switching resistive load including minor overload
AC-22A	AC-22B	Switching mixed resistive and inductive load including minor overload
AC-23A	AC-23B	Switching motors or other highly inductive loads

* Application of these utilization categories is not permitted in the USA

Rated currents for HRC fuse bases and fuse rails and also for gG fuse links (VDE 0636 Part 201), values in brackets = deviations for aM links

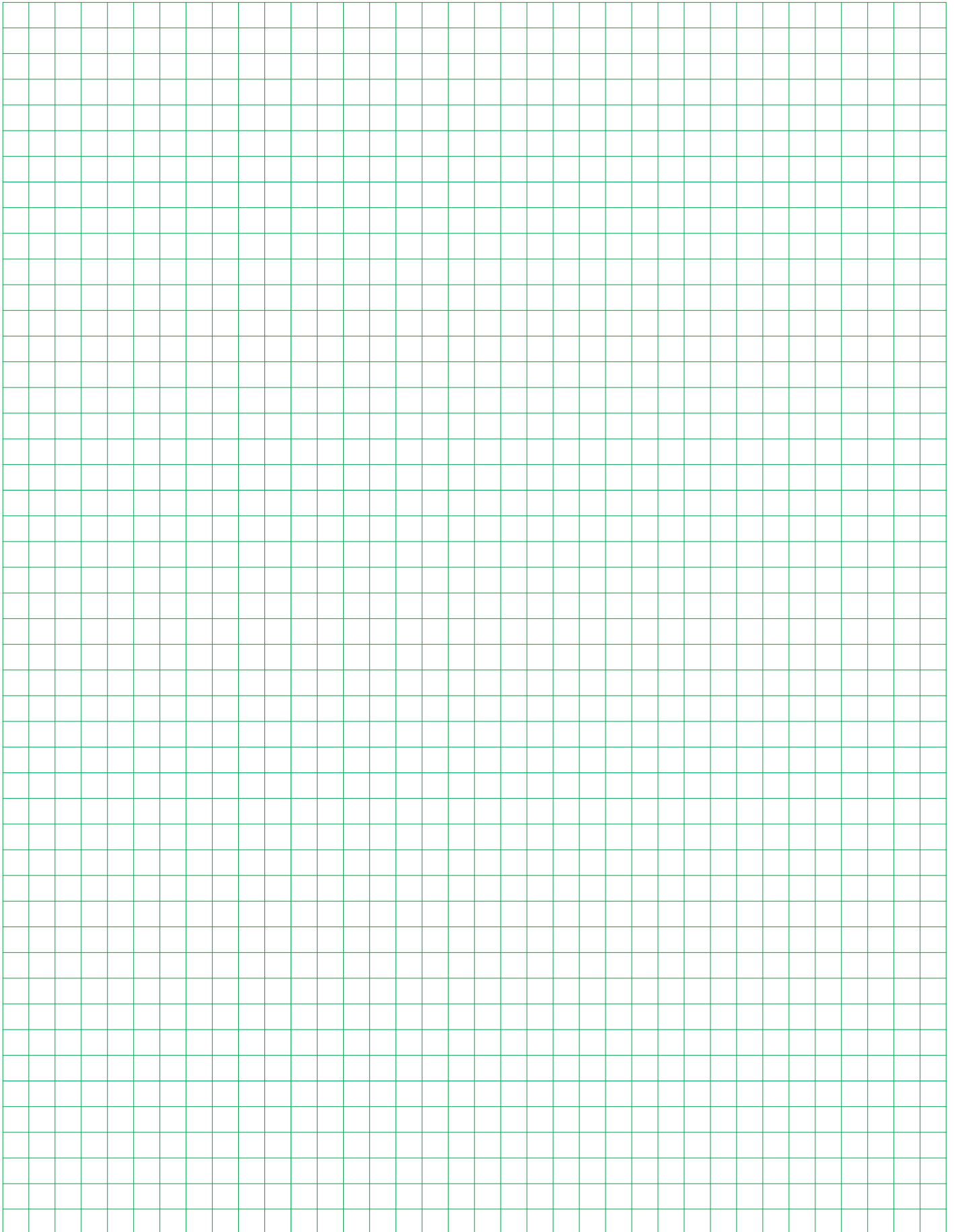
Size	HRC fuse bases	HRC fuse rails	HRC fuse links		
	A	A	~ 400 V ~ 500 V	~ 690 V	= 440 V
000	100	-	2 to 100	2 to 100	-
00	160	160	6 to 160 (100)	to 100	100
0	160	160	6 to 160	to 100	160
1	250	250	80 to 250	to 200 (250)	250
2	400	400	125 to 400	to 315 (400)	400
3	630	630	315 to 630	to 500 (630)	630
4	1000	-	500 to 1000	to 800 (1000)	1250
4a	1600	-	500 to 1600	to 1000(1250)	-

Technical Information

Main busbar system TriLine®

Installation position	Busbar holder Type	No. of busbars and dimensions	Rated current I_n A (35°C)	Rated short-time withstand current I_{cw} (kA)	Rated peak withstand current I_{pk} (kA)
	ZX640 3-pole	2 Cu 20 x 10 mm	1000 A	50 kA	105 kA
		2 Cu 30 x 10 mm	1250 A	50 kA	105 kA
		2 Cu 40 x 10 mm	1600 A	75 kA	165 kA
		2 Cu 60 x 10 mm	2000 A	75 kA	165 kA
		2 Cu 80 x 10 mm	2500 A	75 kA	165 kA

For your notes



General conditions

for the supply of mechanical, electrical and electronic products

Brussels, August 2000

PREAMBLE

1. These General Conditions shall apply when the parties agree in writing or otherwise thereto. When the General Conditions apply to a specific contract, modifications of or deviations from them must be agreed in writing.

The object(s) to be supplied under these General Conditions is (are) hereinafter referred to as the Product.

Wherever these General Conditions use the term in writing, this shall mean by document signed by the parties, or by letter, fax, electronic mail and by such other means as are agreed by the parties.

PRODUCT INFORMATION

2. All information and data contained in general product documentation and price lists, whether in electronic or any other form, are binding only to the extent that they are by reference expressly included in the contract.

DRAWINGS AND DESCRIPTIONS

3. All drawings and technical documents relating to the Product or its manufacture submitted by one party to the other, prior or subsequent to the formation of the contract, shall remain the property of the submitting party.

Drawings, technical documents or other technical information received by one party shall not, without the consent of the other party, be used for any other purpose than that for which they were provided. They may not, without the consent of the submitting party, otherwise be used or copied, reproduced, transmitted or communicated to a third party.

4. The Supplier shall, not later than at the date of delivery, provide free of charge information and drawings which are necessary to permit the Purchaser to erect, commission, operate and maintain the Product. Such information and drawings shall be supplied in the number of copies agreed upon or at least one copy of each. The Supplier shall not be obliged to provide manufacturing drawings for the Product or for spare parts.

ACCEPTANCE TESTS

5. Acceptance tests provided for in the contract shall, unless otherwise agreed, be carried out at the place of manufacture during normal working hours.

If the contract does not specify the technical requirements, the tests shall be carried out in accordance with general practice in the appropriate branch of industry concerned in the country of manufacture.

6. The Supplier shall notify the Purchaser in writing of the acceptance tests in sufficient time to permit the Purchaser to be represented at the tests. If the Purchaser is not represented, the test report shall be sent to the Purchaser and shall be accepted as accurate.

7. If the acceptance tests show the Product not to be in accordance with the contract, the Supplier shall without delay remedy any deficiencies in order to ensure that the Product complies with the contract. New tests shall then be carried out at the Purchaser's request, unless the deficiency was insignificant.

8. The Supplier shall bear all costs for acceptance tests carried out at the place of manufacture. The Purchaser shall however bear all travelling and living expenses for his representatives in connection with such tests.

DELIVERY. PASSING OF RISK

9. Any agreed trade term shall be construed in accordance with the INCOTERMS in force at the formation of the contract.

If no trade term is specifically agreed, the delivery shall be Ex works (EXW).

If, in the case of delivery Ex works, the Supplier, at the request of the Purchaser, undertakes

to send the Product to its destination, the risk will pass not later than when the Product is handed over to the first carrier.

Partial shipments shall be permitted unless otherwise agreed.

TIME FOR DELIVERY. DELAY

10. If the parties, instead of specifying the date for delivery, have specified a period of time on the expiry of which delivery shall take place, such period shall start to run as soon as the contract is entered into, all official formalities have been completed, payments due at the formation of the contract have been made, any agreed securities have been given and any other preconditions have been fulfilled.

11. If the Supplier anticipates that he will not be able to deliver the Product at the time for delivery, he shall forthwith notify the Purchaser thereof in writing, stating the reason, and, if possible, the time when delivery can be expected.

If the Supplier fails to give such notice, the Purchaser shall be entitled to compensation for any additional costs which he incurs and which he could have avoided had he received such notice.

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12. If delay in delivery is caused by any of the circumstances mentioned in Clause 39 or by an act or omission on the part of the Purchaser, including suspension under Clauses 20 or 42, the time for delivery shall be extended by a period which is reasonable having regard to all the circumstances in the case. This provision applies regardless of whether the reason for the delay occurs before or after the agreed time for delivery.

13. If the Product is not delivered at the time for delivery (as defined in Clauses 10 and 12), the Purchaser is entitled to liquidated damages from the date on which delivery should have taken place. The liquidated damages shall be payable at a rate of 0.5 per cent of the purchase price for each completed week of delay. The liquidated damages shall not exceed 7.5 per cent of the purchase price.

If only part of the Product is delayed, the liquidated damages shall be calculated on that part of the purchase price which is attributable to such part of the Product as cannot in consequence of the delay be used as intended by the parties.

The liquidated damages become due at the Purchaser's demand in writing but not before delivery has been completed or the contract is terminated under Clause 14.

The Purchaser shall forfeit his right to liquidated damages if he has not lodged a claim in writing for such damages within six months after the time when delivery should have taken place.

14. If the delay in delivery is such that the Purchaser is entitled to maximum liquidated damages under Clause 13 and if the Product is still not delivered, the Purchaser may in writing demand delivery within a final reasonable period which shall not be less than one week.

If the Supplier does not deliver within such final period and this is not due to any circumstance for which the Purchaser is responsible, then the Purchaser may by notice in writing to the Supplier terminate the contract in respect of such part of the Product as cannot in consequence of the Supplier's failure to deliver be used as intended by the parties. If the Purchaser terminates the contract he shall be entitled to compensation for the loss he has suffered as a result of the Supplier's delay. The total compensation, including the liquidated damages which are payable under Clause 13, shall not exceed 15 per cent of that part of the purchase price which is attributable to the part of the Product in respect of which the contract is terminated.

The purchaser shall also have the right to terminate the contract by notice in writing to the Supplier, if it is clear from the circumstances that there will occur a delay in delivery which, under Clause 13 would entitle the Purchaser to maximum liquidated damages.

In case of termination on this ground, the Purchaser shall be entitled to maximum liquidated damages and compensation under the third paragraph of this Clause 14.

15. Liquidated damages under Clause 13 and termination of the contract with limited compensation under Clause 14 are the only remedies available to the Purchaser in case of delay on the part of the Supplier. All other claims against the Supplier based on such delay shall be excluded,

except where the Supplier has been guilty of gross negligence.

In these General Conditions gross negligence shall mean an act or omission implying either a failure to pay due regard to serious consequences, which a conscientious supplier would normally foresee as likely to ensue, or a deliberate disregard of the consequences of such act or omission.

16. If the Purchaser anticipates that he will be unable to accept delivery of the Product at the delivery time, he shall forthwith notify the Supplier in writing thereof, stating the reason and, if possible, the time when he will be able to accept delivery.

If the Purchaser fails to accept delivery at the delivery time, he shall nevertheless pay any part of the purchase price which becomes due on delivery, as if delivery had taken place. The Supplier shall arrange for storage of the Product at the risk and expense of the Purchaser. The Supplier shall also, if the Purchaser so requires, insure the Product at the Purchaser's expense.

17. Unless the Purchaser's failure to accept delivery is due to any such circumstance as mentioned in Clause 39, the Supplier may by notice in writing require the Purchaser to accept delivery within a final reasonable period.

If, for any reason for which the Supplier is not responsible, the Purchaser fails to accept delivery within such period, the Supplier may by notice in writing terminate the contract in whole or in part.

The Supplier shall then be entitled to compensation for the loss he has suffered by reason of the Purchaser's default. The compensation shall not exceed that part of the purchase price which is attributable to that part of the Product in respect of which the contract is terminated.

PAYMENT

18. Unless otherwise agreed, the purchase price shall be paid with one third at the formation of the contract and one third when the Supplier notifies the Purchaser that the Product, or the essential part of it, is ready for delivery. Final payment shall be made when the Product is delivered.

Payments shall be made within 30 days of the date of the invoice.

19. Whatever the means of payment used, payment shall not be deemed to have been effected before the Supplier's account has been fully and irrevocably credited.

20. If the Purchaser fails to pay by the stipulated date, the Supplier shall be entitled to interest from the day on which payment was due. The rate of interest shall be as agreed between the parties. If the parties fail to agree on the rate of interest, it shall be 8 percentage points above the rate of the main refinancing facility of the European Central Bank in force on the due date of payment.

In case of late payment the Supplier may, after having notified the Purchaser in writing, suspend his performance of the contract until he receives payment.

If the Purchaser has not paid the amount due within three months the Supplier shall be entitled to terminate the contract by notice in writing to the Purchaser and to claim compensation for the loss he has incurred. The compensation shall not exceed the agreed purchase price.

RETENTION OF TITLE

21. The Product shall remain the property of the Supplier until paid for in full to the extent that such retention of title is valid under the applicable law.

The Purchaser shall at the request of the Supplier assist him in taking any measures necessary to protect the Supplier's title to the Product in the country concerned.

The retention of title shall not affect the passing of risk under Clause 9.

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LIABILITY FOR DEFECTS

22. Pursuant to the provisions of Clauses 23-37 inclusive, the Supplier shall remedy any defect or nonconformity (hereinafter termed defect(s)) resulting from faulty design, materials or workmanship.

23. The Supplier's liability is limited to defects which appear within a period of one year from delivery. If the daily use of the Product exceeds that which is agreed, this period shall be reduced proportionately.

24. When a defect in a part of the Product has been remedied, the Supplier shall be liable for defects in the repaired or replaced part under the same terms and conditions as those applicable to the original Product for a period of one year. For the remaining parts of the Product the period mentioned in Clause 23 shall be extended only by a period equal to the period during which the Product has been out of operation as a result of the defect.

25. The Purchaser shall without undue delay notify the Supplier in writing of any defect which appears. Such notice shall under no circumstance be given later than two weeks after the expiry of the period given in Clause 23.

The notice shall contain a description of the defect.

If the Purchaser fails to notify the Supplier in writing of a defect within the time limits set forth in the first paragraph of this Clause, he loses his right to have the defect remedied.

Where the defect is such that it may cause damage, the Purchaser shall immediately inform the Supplier in writing. The Purchaser shall bear the risk of damage resulting from his failure so to notify.

26. On receipt of the notice under Clause 25 the Supplier shall remedy the defect without undue delay and at his own cost as stipulated in Clauses 22-37 inclusive.

Repair shall be carried out at the place where the Product is located unless the Supplier deems it appropriate that the defective part or the Product is returned to him for repair or replacement.

The Supplier is obliged to carry out dismantling and reinstallation of the part if this requires special knowledge. If such special knowledge is not required, the Supplier has fulfilled his obligations in respect of the defect when he delivers to the Purchaser a duly repaired or replaced part.

27. If the Purchaser has given such notice as mentioned in Clause 25 and no defect is found for which the Supplier is liable, the Supplier shall be entitled to compensation for the costs he has incurred as a result of the notice.

28. The Purchaser shall at his own expense arrange for any dismantling and reassembly of equipment other than the Product, to the extent that this is necessary to remedy the defect.

29. Unless otherwise agreed, necessary transport of the Product and/or parts thereof to and from the Supplier in connection with the remedying of defects for which the Supplier is liable shall be at the risk and expense of the Supplier. The Purchaser shall follow the Supplier's instructions regarding such transport.

30. Unless otherwise agreed, the Purchaser shall bear any additional costs which the Supplier incurs for repair, dismantling, installation and transport as a result of the Product being located in a place

other than the destination stated in the contract or - if no destination is stated - the place of delivery.

31. Defective parts which have been replaced shall be made available to the Supplier and shall be his property.

32. If, within a reasonable time, the Supplier does not fulfil his obligations under Clause 26, the Purchaser may by notice in writing fix a final time for completion of the Supplier's obligations.

If the Supplier fails to fulfil his obligations within such final time, the Purchaser may himself undertake or employ a third party to undertake necessary remedial works at the risk and expense of the Supplier.

Where successful remedial works have been undertaken by the Purchaser or a third party, reimbursement by the Supplier of reasonable costs incurred by the Purchaser shall be in full settlement of the Supplier's liabilities for the said defect.

33. Where the defect has not been successfully remedied, as stipulated under Clause 32,

a) the Purchaser is entitled to a reduction of the purchase price in proportion to the reduced value of the Product, provided that under no circumstance shall such reduction exceed 15 per cent of the purchase price, or

b) where the defect is so substantial as to significantly deprive the Purchaser of the benefit of the contract, the Purchaser may terminate the contract by notice in writing to the Supplier. The Purchaser is then entitled to compensation for the loss he has suffered up to a maximum of 15 per cent of the purchase price.

34. The Supplier is not liable for defects arising out of materials provided, or a design stipulated or specified by the Purchaser.

35. The Supplier is liable only for defects which appear under the conditions of operation provided for in the contract and under proper use of the Product.

The Supplier's liability does not cover defects which are caused by faulty maintenance, incorrect erection or faulty repair by the Purchaser, or by alterations carried out without the Supplier's consent in writing.

Finally the Supplier's liability does not cover normal wear and tear or deterioration.

36. Notwithstanding the provisions of Clauses 22-35 the Supplier shall not be liable for defects in any part of the Product for more than two years from the beginning of the period given in Clause 23.

37. Save as stipulated in Clauses 22-36, the Supplier shall not be liable for defects. This applies to any loss the defect may cause including loss of production, loss of profit and other indirect loss. This limitation of the Supplier's liability shall not apply if he has been guilty of gross negligence as defined in Clause 15.

ALLOCATION OF LIABILITY FOR DAMAGE CAUSED BY THE PRODUCT

38. The supplier shall not be liable for any damage to property caused by the Product after it has been delivered and whilst it is in the possession of the Purchaser. Nor shall the Supplier be liable for any damage to products manufactured by the Purchaser, or to products of which the Purchaser's products form a part.

If the Supplier incurs liability towards any third party for such damage to property as described in the preceding paragraph, the Purchaser shall indemnify, defend and hold the Supplier harmless.

If a claim for damage as described in this Clause is lodged by a third party against one of the parties,

the latter party shall forthwith inform the other party thereof in writing.

The supplier and the Purchaser shall be mutually obliged to let themselves be summoned to the court or arbitral tribunal examining claims for damages lodged against one of them on the basis of damage allegedly caused by the Product.

The limitation of the Supplier's liability in the first paragraph of this Clause shall not apply where the Supplier has been guilty of gross negligence as defined in Clause 15.

FORCE MAJEURE

39. Either party shall be entitled to suspend performance of his obligations under the contract to the extent that such performance is impeded or made unreasonably onerous by any of the following circumstances: industrial disputes and any other circumstance beyond the control of the parties such as fire, war, extensive military mobilization, insurrection, requisition, seizure, embargo, restrictions in the use of power and defects or delays in deliveries by sub-contractors caused by any such circumstance referred to in this Clause.

A circumstance referred to in this Clause whether occurring prior to or after the formation of the contract shall give a right to suspension only if its effect on the performance of the contract could not be foreseen at the time of the formation of the contract.

40. The party claiming to be affected by Force Majeure shall notify the other party in writing without delay on the intervention and on the cessation of such circumstance.

If Force Majeure prevents the Purchaser from fulfilling his obligations, he shall compensate the Supplier for expenses incurred in securing and protecting the Product.

41. Regardless of what might otherwise follow from these General Conditions, either party shall be entitled to terminate the contract by notice in writing to the other party if performance of the contract is suspended under Clause 39 for more than six months.

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ANTICIPATED NON-PERFORMANCE

42. Notwithstanding other provisions in these General Conditions regarding suspension, each party shall be entitled to suspend the performance of his obligations under the contract, where it is clear from the circumstances that the other party will not be able to perform his

obligations. A party suspending his performance of the contract shall forthwith notify the other party thereof in writing.

CONSEQUENTIAL LOSSES

43. Save as otherwise stated in these General Conditions there shall be no liability for either party towards the other party for loss of production, loss of profit, loss of use, loss of contracts or for any other consequential or indirect loss whatsoever.

DISPUTES AND APPLICABLE LAW

44. All disputes arising out of or in connection with the contract shall be finally settled under the Rules of Arbitration of the International Chamber of Commerce by one or more arbitrators appointed in accordance with the said rules.

45. The contract shall be governed by the substantive law of the Supplier's country.

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PHC123R15	20242	4	0711010	2-7	PMT3G19A	21628	5	0713020	2-4	PHH253R2A	20138	0	0713070	2-6	PNC16VA11A	20818	1	0711010	2-10
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PHC123R25A	20164	9	0711010	2-7	PMT3G34A	21348	2	0713020	2-4	PKA2	21242	3	0713010	2-5	PNC20D66A	21987	3	0711010	2-9
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PHC163R4A	20179	3	0711010	2-7	PNC12D66	21990	3	0711010	2-9	PKA35	21245	4	0713010	2-5	PNC20HD1A	21919	4	0711010	2-9
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PHC163R66A	21868	5	0711010	2-7	PNC12HD15A	20648	4	0711010	2-9	PMA186	22217	0	0508010	2-2	PNC20HK4A	20634	7	0711010	2-8
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PHC203R15A	20186	1	0711010	2-7	PNC12HK3A	20560	9	0711010	2-8	PMB486	20851	8	0508010	2-2	PNC20VU11	22195	1	0711010	2-10
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PHC203R25	20268	4	0711010	2-7	PNC12HK4	20562	3	0711010	2-8	PMD866	22219	4	0508010	2-2	PNC25D66	21993	4	0711010	2-9
PHC203R25A	20188	5	0711010	2-7	PNC12HK4A	20622	4	0711010	2-8	PMD866A	22215	6	0508010	2-2	PNC25D66A	21988	0	0711010	2-9
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PHC253R3A	20201	1	0711010	2-7	PNC12VU11	22193	7	0711010	2-10	PME131A	21327	7	0713010	2-4	PNC25HD15A	20666	8	0711010	2-9
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PPC12HD15	20708	5	0711010	2-12	PTBGCG154	21112	9	0713010	2-31	PPC20HK3A	20755	9	0711010	2-11	PTCVC30A	21602	5	0713010	3-4
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PPC12HD25	20710	8	0711010	2-12	PTBGCG24A	22301	6	0713010	2-31	PPC20HK15	20690	3	0711010	2-11	PTCVD20	21613	1	0713010	3-4
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PPC12HK2	20679	8	0711010	2-11	PTBGDA154A	21070	2	0713010	2-30	PPC20HK35	20694	1	0711010	2-11	PTCVG15	21606	3	0713010	3-4
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PPC16HD35A	20790	0	0711010	2-12	PTBJCK34	21092	4	0713010	2-30	PPC25HK25A	20760	3	0711010	2-11	PTMB25606A	20962	1	0713010	2-33
PPC16HK2	20685	9	0711010	2-11	PTBJCK34A	21076	4	0713010	2-30	PPC25HK35	20700	9	0711010	2-11	PTMB35606	21030	6	0713010	2-33
PPC16HK2A	20747	4	0711010	2-11	PTBJCQ34	21120	4	0713010	2-31	PPC25HK35A	20766	5	0711010	2-11	PTMB35606A	20964	5	0713010	2-33

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PTMS4456	21034	4	0713010	2-33	PWC103HV1	20529	6	0711010	2-26	PVC203VL8	21459	5	0711010	2-18	PWC203VM6A	21440	3	0711010	2-27
PTMS4456A	20968	3	0713010	2-33	PWC103HV1A	20541	8	0711010	2-26	PVC203VL8A	21452	6	0711010	2-18	PWC203VS6	21448	9	0711010	2-27
PTMS4606	21040	5	0713010	2-33	PWC103RGB	20469	5	0711010	2-21	PVC203VS8	21462	5	0711010	2-12	PWC203VSA	21441	0	0711010	2-27
PTMS4606A	20974	4	0713010	2-33	PWC103RGBA	20499	2	0711010	2-21	PVC203VS8	21462	5	0711010	2-18	PWC253RJ8	20496	1	0711010	2-22
PTMS15606	21035	1	0713010	2-33	PWC103RGC	20470	1	0711010	2-21	PVC203VS8A	21455	7	0711010	2-12	PWC253RJ8A	20522	7	0711010	2-22
PTMS15606A	20969	0	0713010	2-33	PWC103RGCA	20500	5	0711010	2-21	PVC203VS8A	21455	7	0711010	2-18	PWC253RJ8C	20497	8	0711010	2-22
PTMS25606	21037	5	0713010	2-33	PWC103RGD	20471	8	0711010	2-21						PWC253RJ8A	20523	4	0711010	2-22
PTMS25606A	20971	3	0713010	2-33	PWC103RGDA	20501	2	0711010	2-21	PVH12HM2	20293	6	0713070	2-16	PWC253RJ8S	20498	5	0711010	2-22
PTMS35606	21039	9	0713010	2-33	PWC103RGS	20472	5	0711010	2-21	PVH12HM2A	20316	2	0713070	2-16	PWC253RJ8A	20524	1	0711010	2-22
PTMS35606A	20973	7	0713010	2-33	PWC103RGS	20502	9	0711010	2-21	PVH12HM3	20294	3	0713070	2-16					
					PWC103RGT	20473	2	0711010	2-21	PVH12HM3A	20317	9	0713070	2-16	PWH011R	20414	5	0713070	2-24
PTU184	22355	9	0713010	2-35	PWC103RGT	20503	6	0711010	2-21	PVH12HJ2	20302	5	0713070	2-16	PWH011RA	20428	2	0713070	2-24
PTU184A	22352	8	0713010	2-35	PWC103RGU	20474	9	0711010	2-21	PVH12HJ2A	20324	7	0713070	2-16	PWH012R	20415	2	0713070	2-19
PTU284	22356	6	0713010	2-35	PWC103RGUA	20504	3	0711010	2-21	PVH12HJ3	20303	2	0713070	2-16	PWH012RA	20429	9	0713070	2-19
PTU284A	22353	5	0713010	2-35	PWC103V56	21442	7	0711010	2-27	PVH12HJ3A	20325	4	0713070	2-16	PWH013R	20416	9	0713070	2-19
PTW86	20959	1	0713010	2-34	PWC103V56A	21435	9	0711010	2-27	PVH12VM6	21470	0	0713010	2-18	PWH013RA	20430	5	0713070	2-19
					PWC123HM1	20530	2	0711010	2-26	PVH12VM6A	21463	2	0713010	2-18	PWH014R	20417	6	0713070	2-19
PUC103G1	20452	7	0711010	2-25	PWC123HM1A	20542	5	0711010	2-26	PVH12VM6A	21473	1	0713010	2-18	PWH014RA	20431	2	0713070	2-19
PUC103G1A	20459	6	0711010	2-25	PWC123HN1	20531	9	0711010	2-26	PVH12VU6A	21466	3	0713010	2-18	PWH021R	20418	3	0713070	2-24
PUC103G3	20453	4	0711010	2-25	PWC123HN1A	20543	2	0711010	2-26	PVH16HM2	20295	0	0713070	2-16	PWH021RA	20432	9	0713070	2-24
PUC103G3A	20460	2	0711010	2-25	PWC123HV1	20532	6	0711010	2-26	PVH16HM2A	20318	6	0713070	2-16	PWH022R	20419	0	0713070	2-19
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PUC123G1A	20464	0	0711010	2-25	PWC123RGB	20475	6	0711010	2-21	PVH16HM3A	20319	3	0713070	2-16	PWH023R	20420	6	0713070	2-19
PUC123G3	20455	8	0711010	2-25	PWC123RGBA	20505	0	0711010	2-21	PVH16HJ2	20304	9	0713070	2-16	PWH023RA	20434	3	0713070	2-19
PUC123G3A	20465	7	0711010	2-25	PWC123RGC	20476	3	0711010	2-21	PVH16HJ2A	20326	1	0713070	2-16	PWH024R	20421	3	0713070	2-19
PUC163G1	20456	5	0711010	2-25	PWC123RGCA	20506	7	0711010	2-21	PVH16HJ3	20305	6	0713070	2-16	PWH024RA	20435	0	0713070	2-19
PUC163G1A	20466	4	0711010	2-25	PWC123RGD	20477	0	0711010	2-21	PVH16HJ3A	20327	8	0713070	2-16	PWH031R	20422	0	0713070	2-24
PUC163G3	20457	2	0711010	2-25	PWC123RGDA	20507	4	0711010	2-21	PVH16VM6	21471	7	0713010	2-18	PWH031RA	20436	7	0713070	2-20
PUC163G3A	20467	1	0711010	2-25	PWC123RGS	20478	7	0711010	2-21	PVH16VM6A	21464	9	0713010	2-18	PWH032R	20423	7	0713070	2-20
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					PWC123RGTA	20509	8	0711010	2-21	PVH20HM2	20297	4	0713070	2-16	PWH033RA	20438	1	0713070	2-20
PWA303	22185	2	0713010	2-27	PWC123RGU	20480	0	0711010	2-21	PVH20HM2A	20320	9	0713070	2-16	PWH042R	20425	1	0713070	2-20
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PWC103HS2	20332	2	0711010	2-17	PWC123VM6	21443	4	0711010	2-27	PVH20HM3A	20321	6	0713070	2-16	PWH043R	20426	8	0713070	2-20
PVC103HS2A	20352	0	0711010	2-17	PWC123VM6A	21436	6	0711010	2-27	PVH20HN	20308	7	0713070	2-12	PWH043R	20426	8	0713070	2-20
PVC103HS3	20333	9	0711010	2-17	PWC123V56	21444	1	0711010	2-27	PVH20HN	20308	7	0713070	2-17	PWH043RA	20440	4	0713070	2-20
PVC103HS3A	20353	7	0711010	2-17	PWC123V56A	21437	3	0711010	2-27	PVH20HNA	20330	8	0713070	2-12	PWH051R	20427	5	0713070	2-20
PVC103VL8	21456	4	0711010	2-18	PWC163HM1	20533	3	0711010	2-26	PVH20HNA	20330	8	0713070	2-17	PWH051RA	20441	1	0713070	2-20
PVC103VL8A	21449	6	0711010	2-18	PWC163HM1A	20545	6	0711010	2-26	PVH20HJ2	20306	3	0713070	2-16	PWH062	20525	8	0713070	2-26
PVC123HL2	20345	2	0711010	2-16	PWC163HN1	20534	0	0711010	2-26	PVH20HJ2A	20328	5	0713070	2-16	PWH062A	20526	5	0713070	2-26
PVC123HL2A	20362	9	0711010	2-16	PWC163HN1A	20546	3	0711010	2-26	PVH20HJ3	20307	0	0713070	2-16	PWH062A	20526	5	0713070	2-26
PVC123HL3	20347	6	0711010	2-16	PWC163HV1	20535	7	0711010	2-26	PVH20HJ3A	20329	2	0713070	2-16	PWH062A	20526	5	0713070	2-26
PVC123HL3A	20363	6	0711010	2-16	PWC163HV1A	20547	0	0711010	2-26	PVH20VM6	21472	4	0713010	2-18	PXC103R	22178	4	0711010	2-28
PVC123HS2	20334	6	0711010	2-17	PWC163RGB	20486	2	0711010	2-21	PVH20VM6A	21465	6	0713010	2-18	PXC123R	22179	1	0711010	2-28
PVC123HS2A	20354	4	0711010	2-17	PWC163RGBA	20512	8	0711010	2-21	PVH20VS4	21476	2	0713010	2-18	PXC123RA	22173	9	0711010	2-28
PVC123HS3	20335	3	0711010	2-17	PWC163RGC	20487	9	0711010	2-21	PVH20VS4A	21469	4	0713010	2-18	PXC163R	22180	7	0711010	2-28
PVC123HS3A	20355	1	0711010	2-17	PWC163RGCA	20513	5	0711010	2-21	PVH20VU6	21475	5	0713010	2-18	PXC163RA	22174	6	0711010	2-28
PVC123VL8	21457	1	0711010	2-18	PWC163RGD	20488	6	0711010	2-21	PVH20VU6A	21468	7	0713010	2-18	PXC203R	22181	4	0711010	2-28
PVC123VL8A	21450	2	0711010	2-18	PWC163RGDA	20514	2	0711010	2-21	PWA30611	22405	1	0713010	2-28	PXC203RA	22175	3	0711010	2-28
PVC123VS8	21460	1	0711010	2-12	PWC163RGS	20489	3	0711010	2-21	PWA30611A	22406	6	0713010	2-28	PXC253R	22182	1	0711010	2-28
PVC123VS8	21460	1	0711010	2-12	PWC163RGS	20515	9	0711010	2-21	PWA31211	22406	8	0713010	2-28	PXC253RA	22176	0	0711010	2-28
PVC123VS8A	21453	3	0711010	2-12	PWC163RGT	20490	9	0711010	2-21	PWA31211	22406	8	0713010	2-28	PXH125R	22361	0	0713070	2-28
PVC123VS8A	21453	3	0711010	2-18	PWC163RGTA	20516	6	0711010	2-21	PWA31211A	22401	3	0713010	2-28	PXH125RA	22361	0	0713070	2-28
PVC163HL2	20348	3	0711010	2-16	PWC163RGU	20491	6	0711010	2-21	PWA31211A	22401	3	0713010	2-28	PXH125RA	22358	0	0713070	2-28
PVC163HL2A	20364	3	0711010	2-16	PWC163RGUA	20517	3	0711010	2-21	PWA31212	22409	9	0713010	2-28	PXH135R	22362	7	0713070	2-28
PVC163HL3	20349	0	0711010	2-16	PWC163VM6	21445	8	0711010	2-27	PWA31212	22409	9	0713010	2-28	PXH135RA	22359	7	0713070	2-28
PVC163HL3A	20365	0	0711010	2-16	PWC163VM6A	21438	0	0711010	2-27	PWA31212A	22404	4	0713010	2-28	PXH145R	22363	4	0713070	2-28
PVC163HS2	20336	0	0711010	2-17	PWC163V56	21446	5	0711010	2-27	PWA31212A	22404	4	0713010	2-28	PXH145RA	22360	3	0713070	2-28
PVC163HS2A	20356	8	0711010	2-17	PWC163V56A	21439	7	0711010	2-27	PWA40311	20442	8	0713010	2-23	PXH145R	22363	4	0713070	2-2

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RBA36LA	20855	6	0713010	1-5	RDA15630	20900	3	0713010	1-4	RBM100A	21666	7	0713010	1-13	RFMA4	21424	3	0713010	1-6
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RBA46LA	20857	0	0713010	1-5	RDA1630	22286	6	0713010	1-4	RBM150A	21854	8	0713010	1-13	RFMA15	21419	9	0713010	1-6
RBA156L	20866	2	0713010	1-5	RDA1630A	22284	2	0713010	1-4	RBM200	21676	6	0713010	1-13	RFMA15A	21401	4	0713010	1-6
RBA156LA	20852	5	0713010	1-5	RDA25630	20902	7	0713010	1-4	RBM200A	21667	4	0713010	1-13	RFMA25	21421	2	0713010	1-6
RBA16L	22290	3	0713010	1-5	RDA25630A	20882	2	0713010	1-4	RBMB100	22431	0	0713010	1-13	RFMA25A	21403	8	0713010	1-6
RBA16LA	22288	0	0713010	1-5	RDA35630	20904	1	0713010	1-4	RBMB100A	22423	5	0713010	1-13	RFMA35	21423	6	0713010	1-6
RBA256L	20868	6	0713010	1-5	RDA35630A	20884	6	0713010	1-4	RBMB50	22430	3	0713010	1-13	RFMA35A	21405	2	0713010	1-6
RBA256LA	20854	9	0713010	1-5	RDA6630	22287	3	0713010	1-4	RBMB50A	22422	8	0713010	1-13	RFMB4	21486	1	0713010	1-7
RBA356L	20870	9	0713010	1-5	RDA6630A	22285	9	0713010	1-4	RBN1T00	22433	4	0713010	1-13	RFMB4A	21481	6	0713010	1-7
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RBA66L	22291	0	0713010	1-5	RDB2630	20907	2	0713010	1-4	RBN1T50	22432	7	0713010	1-13	RM1501	66319	5	0713010	3-10
RBA66LA	22289	7	0713010	1-5	RDB2630A	20887	7	0713010	1-4	RBN1T50A	22424	2	0713010	1-13	RM1501A	21775	6	0713020	3-10
					RDB3630	20909	6	0713010	1-4						RM1502	66320	1	0713010	4-16
RBAHA2	21655	1	0713010	1-12	RDB3630A	20889	1	0713010	1-4	RBU50	21677	3	0713010	1-13	RM2001	66322	5	0713010	3-10
RBAHA2A	21641	4	0713010	1-12	RDB4630	20911	9	0713010	1-4	RBU50A	21668	1	0713010	1-13	RM2001A	21776	3	0713020	3-10
RBAHA3	21657	5	0713010	1-12	RDB4630A	20891	4	0713010	1-4	RBUT5	21678	0	0713010	1-13	RM2002	66323	2	0713010	4-16
RBAHA3A	21643	8	0713010	1-12	RDB15630	20906	5	0713010	1-4	RBUT5A	21669	8	0713010	1-13	RM3001	66325	6	0713010	3-10
RBAHA4	21659	9	0713010	1-12	RDB15630A	20886	0	0713010	1-4	RBUT100	21679	7	0713010	1-13	RM3001A	21777	0	0713020	3-10
RBAHA4A	21645	2	0713010	1-12	RDB25630	20908	9	0713010	1-4	RBUT100A	21670	4	0713010	1-13	RM3002	66326	3	0713010	4-16
RBAHA1	22316	0	0713010	1-12	RDB25630A	20888	4	0713010	1-4	RBUT150	21680	3	0713010	1-13	RM4001	66441	3	0713010	3-10
RBAHA15	21654	4	0713010	1-12	RDB35630	20910	2	0713010	1-4	RBUT150A	21671	1	0713010	1-13	RM4001A	21778	7	0713020	3-10
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RBAHA1A	22312	2	0713010	1-12					RBVB100	22435	8	0713010	1-13	RM6001A	21779	4	0713020	3-10	
RBAHA25	21656	8	0713010	1-12	RDC2630	20913	3	0713010	1-4	RBVB100A	22427	3	0713010	1-13	RM8001	66443	7	0713010	3-10
RBAHA25A	21642	1	0713010	1-12	RDC2630A	20893	8	0713010	1-4	RBVB50	22434	1	0713010	1-13	RM8001A	21780	0	0713020	3-10
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RBB256L	20874	7	0713010	1-5	RFAB4A	21477	9	0713010	1-7	RCT223	66178	8	0713010	3-12	RMS2008	66504	5	0713010	4-16
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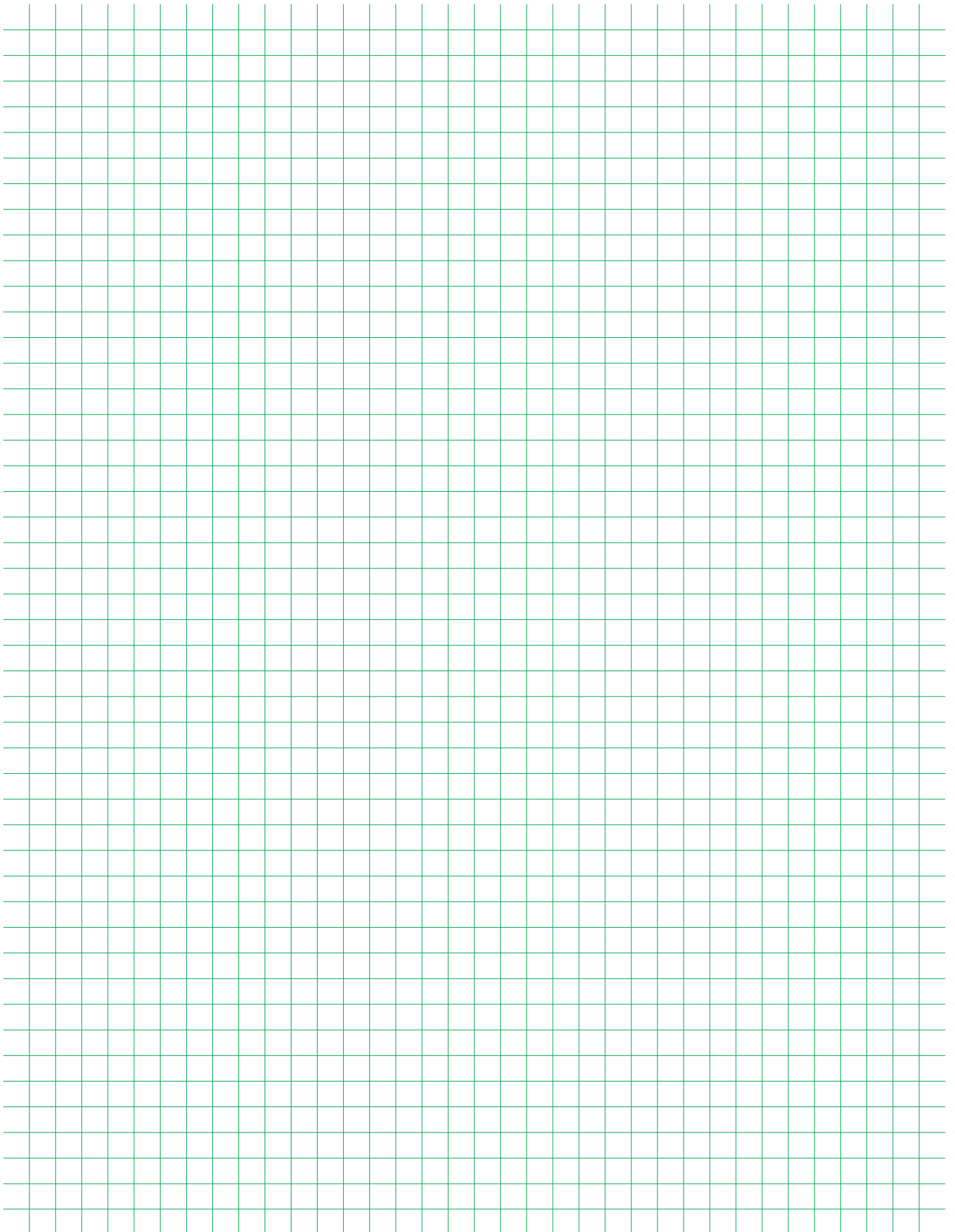
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RR258	21139	6	0713010	1-3	RTS390A	21198	3	0713050	1-8	RTB360A	21254	6	0713050	1-10	RTW2001A	21783	1	0713010	3-11
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RZULB35	46419	8	0713010	4-5	ZX261P10	62518	6	0701010	ZX377P10	62546	9	0701010					
RZULB4	46061	9	0713010	4-5	ZX283P10	60281	1	0701010	ZX397P10	62586	5	0701010					
RZULB5	46062	6	0713010	4-5	ZX284P10	62532	2	0701010	ZX398P10	62587	2	0701010					
RZULH8	46063	3	0713010	4-5	ZX285P10	62533	9	0701010									
RZULH10	46064	0	0713010	4-5	ZX286P10	62534	6	0701010	ZK551	68515	9	0701010					
RZULT3	46054	1	0713010	4-5	ZX294P10	62538	4	0701010	ZK555	68676	7	0701010					
RZULT4	46055	8	0713010	4-5	ZX295P10	62539	1	0701010	ZK559	68737	5	0701010					
RZULT6	46056	5	0713010	4-5	ZX296P10	62540	7	0701010	ZK663P20	46251	4	0710010					
RZULT8	46057	2	0713010	4-5					ZK671	46977	3	0713010					
					ZX355	61355	8	0711010	ZK672	46978	0	0713010					
ZA13	38233	1	0701010	4-2	ZX356	61356	5	0711010	ZK680	46260	6	0713010					
ZA13P10	62381	6	0701010	4-2	ZX357	61357	2	0711010	ZK682	46262	0	0713010					
ZA150	21428	1	0713010	4-2	ZX358	61358	9	0711010	ZK683	46263	7	0713010					
ZA150A	21427	4	0713010	4-2	ZX359	61359	6	0711010	ZK688	46268	2	0713010					
ZH91	66091	0	0701010	4-3	ZX360	61360	2	0711010									
ZH130	60490	7	0701010	4-3	ZX361	61361	9	0711010	ZK714P10	68681	1	0701010					
ZH131	60491	4	0701010	4-3	ZX362	61362	6	0711010	ZK722P10	46252	1	0710010					
ZH132	60492	1	0701010	4-3	ZX363	61363	3	0711010	ZK723P10	46301	6	0701010					
ZH133	60493	8	0701010	4-3	ZX364	61364	0	0711010	ZK724P10	46253	8	0710010					
ZH134	60494	5	0701010	4-3					ZK725P10	66357	7	0701010					
ZH137	60497	6															

For your notes



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