TECHNICAL CATALOGUE

System pro E power

Main distribution switchboards up to 6300A



Summary

Main distribution switchboards up to 6300A

RANGE PRESENTATION 1

STRUCTURE 2

INTERNAL KITS 3

MAIN DISTRIBUTION SYSTEMS 4

SEGREGATIONS 5

DEDICATED SOLUTION 6

TECHNICAL DETAILS AND CERTIFICATIONS 7

OVERALL DIMENSIONS 8

LIST OF CODES 9

The ABB SACE website: makes your work easier, develops your business



- News, to keep you up to date about the latest electrical engineering innovations
- Products, just a simple click for an overview of ABB SACE products 24 hours a day
- Catalogues that you can consult, download and request
- Technical documentation where you can check circuit diagrams, dimensional drawings,
- instruction sheets, installation manuals
- Work tools for designing in complete safety
- Training, where you can consult the training catalogue and register for courses online

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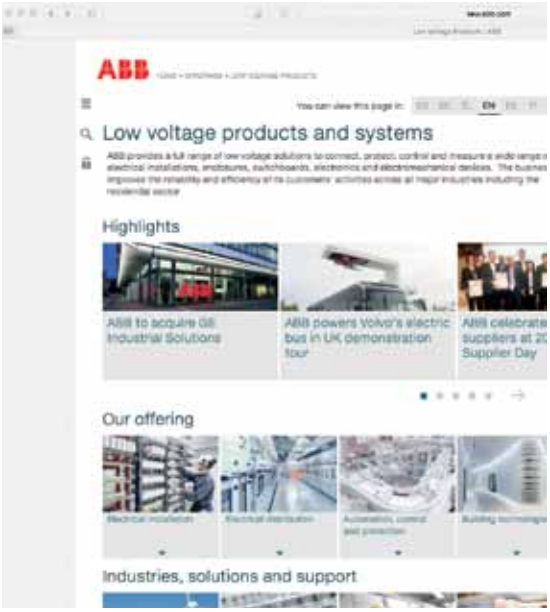
www.new.abb.com/low-voltage
The ABB SACE website will help you in your daily work with an innovative approach to the world of low voltage electrical installations and industrial automation.



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Technical software Calculation and cost estimate tools

e-Design: everyone has a project, ABB has a solution to make it happen.
e-Design is the integrated suite, designed and created by ABB, dedicated to designers, technicians, engineering companies, panel builders and wholesalers. Thanks to e-Design you can design an electrical installation and optimize the processing time, while benefiting from a product portfolio you can use in synergy and with intuitive and simple functions.

We would like to highlight several positive features:

- Reliable in extreme conditions
  Thanks to the tests performed on the product, the enclosures can stand a rated short-time withstand current (Icw) up to 120 kA and a Maximum rated current up to 6300A. The solution is also provided of an ant seismic certification, thanks to a shock level test up to 0.75 g performed with the installation of specific accessories. The safety is also guaranteed by the complete range of segregation forms up to 4b and by the blind tops arc fault resistant (composed by two flaps that, in case of internal arc fault, allow its outburst upward, protecting an operator that could be present in front of the switchboard).

- Speed up your projects
  It is possible to save valuable time (up to 5% of the total time) by choosing the incoming column with DOC software, where a list of preconfigured incomer columns is already uploaded.Additional time can be saved thanks to the breaker kit package that with one single code provides all the components for a breaker kit installation (panel, plate, supports and screws); the pre-assembled DIN rail kit allows to save up to 70% on the time in case of System pro M components installation.

- Space saving
  A wide variety of dimensions are available to meet all customer requests: 2 heights, 5 depths and 6 widths. Furthermore, amperage from 2500A to 6300A can be reached in the minimum widths listed below:
  Up to 2500A (3P) installable in W=400mm
  Up to 4000A (3P) installable in W=600mm
  Up to 4000A (4P) installable in W=800mm
  Up to 6300A (4P) installable in W=1000/1250mm
  For example, further space (up to 38%) can be saved by mounting two air circuit breakers in one column In 2500A, width 400mm (E2.2 F/W 3P), thanks to the dedicated components.



- Simple and immediate selection and configuration of products, even for those who are not familiar
- with ABB products, simply by defining technical features
- The automatic user-friendly design process based on the list of devices simplifies one of the most
- complex design stages and avoids compatibility errors between products, assembly kits and
- busbar systems
- Effective product organization with tree views, so that the user can work methodically, view the
- relevant product immediately and define the switchboards with ease
- Availability of a dedicated module for busbar configuration

Well aware of market requirements, ABB now capitalizes on its experience and presents the new e-Design suite as a practical answer to every critical aspect of the design process.

—

e-Design suite is structured with integrated functional modules, allowing it to support all planning stages of an electrical installation.

All solutions are studied in detail, from electrical network dimensioning, to switchboard configuration, through to the final cost estimate stage.

The registration procedure is very easy and, once completed, you can immediately download installers and upgrades.

DOC **Electrical installation Dimensioning**

EDS **Switchboard Configuration**

PDC **Switchboard Engineering**

CAT **Product Selection and Configuration**

The suite's appealing and brandnew look, combined with general optimization of the functions that have always characterized ABBsoftware, make it an innovative tool, up to date with the technologies currently available in the sector. After only a brief introduction, the user can already design, calculate, archive and perform project planning. No special CAD skills are required. Software operation is based on dialog boxes. The user is led through the program.

System pro E power
Even more easy and fast

In order to make more easy the use of System pro E power available information, new labels have been created as a useful tool to stock and mount the enclosures.

In the new product labels 5 fields have been added:

1. **Through the QR code it is possible having a fast access to the ABB System pro E power web site with all support material regarding** the product:
   Multimedia
   Promotional videos, Velocity, Flexibility, Semplicity is Power
   3D drawings
   Structure
   Kits for internal installation
   Main documents
   Technical catalogue
   Instruction handbook
   Video manuals
   Mounting sequence animations
   Preconfigurated enclosures
2. **Mounting video specific for a component**
3. **Mounting sequence**
4. **ABB web site**
5. **Country of origin**



A yellow label, put on the package of the depth crosspieces, presents 5 QR codes that links to ABB Youtube channel, were the corresponding mounting videos are stored.
Futhermore, a recap sheet has been added on the same package in order to facilitate the usage of the new labels.



System pro E power

ABB SACE Division and its environmental protection commitment

Among the enterprises belonging to the Group, ABB SACE is in the forefront when it comes to dedicating consistent resources to its sustainable development and environmental protection goals. A policy confirmed by acquisition of ISO 9001 quality certification and ISO 14001 environmental management system certification by all the corporate plants as well as Integrated Quality, Environment, Safety Management System certification for the majority of business units.

Indeed, all the corporate divisions actively pursue policies for environmental management improvement implemented by rationalizing the use of raw materials and energy, preventing pollution, monitoring air and water quality, reducing noise emissions and the waste created by the production processes as well as conducting regular environmental audits with the major suppliers.

Thanks to use of analysis tools like LCA (Life Cycle Analysis), assessment and improvement of the environmental performance of the entire life cycle of the products is included in ABB SACE's design engineering work right from the very start. This with a view to optimizing technical and energy-related performance, controlling and reducing environmental impact during the manufacturing phase and allowing the product end of life management process to be defined.

ABB: quality of the certified products
ABB dedicates consistent resources for the purpose of attaining its quality and environmental protection goals, as testified by the following certifications obtained by the company:

Member of CISQ Federation

CERTIFIED MANAGEMENT SYSTEM
ISO 9001 - ISO 14001
BS OHSAS 18001



System pro E power
User's guide



Chapter 1
Range presentation
Overview, introduction and advantages of the new main distribution switchboard range up to 6300A.



Chapter 2
Structure
Distinctive features of the new switchboards with selection guides for rapid choice of the structure. Ordering codes for the framework and external covers.



Chapter 3
Internal kits
Assembly kits for the circuit-breakers and the accessories available for the new switchboard solution.



Chapter 4
Main distribution systems
Description of the different busbar system combinations that can be created. Selection guides and capacity tables.



Chapter 5
Segregations
Segregation kits up to Form 4b available for busbar and breakers with front/rear terminal.



Chapter 6
Dedicated solution
Assembly kits for CombiLine and InLine.



Chapter 7
Technical details, certifications and configuration examples
Specifications of the new switchboard, regulatory framework, Italian and international certifications.



Chapter 8
Overall dimensions
Overall dimensions of the switchboards and the relative components available.



Chapter 9
List of codes
Analytical list of codes.

Chapter 1
Range presentation

1–2 **Introduction**

1–4 **Advantages**

1–4 **Reliable in extreme conditions**

1–5 **Speed up your projects**

1–5 **Space saving**

1–6 **Composition of the series**

Range presentation

System pro E power, ABB's pioneering new solution for main distribution switchboards with rated current up to 6300A and short-circuit current up to 120kA, meets all plant requirements depending on the type of installation, required degree of protection and electrical and mechanical specifications.





Range presentation
Introduction



Thanks to the new switchboard, ABB can provide complete solutions for main electric power distribution in infrastructures and industries, in accordance with the regulatory framework.

Typical fields of application are airports, subways, hospitals, industrial and residential estates, ports, tunnels, railways, theatres, etc. In addition, System pro E power guarantees full synergy with all the other ABB apparatus (i.e. modular circuit-breakers, Tmax T and XT moulded-case circuit-breakers, Emax 2 air circuit-breakers) while being extremely simple to assemble and ensuring ease of wiring.

Great attention has been made to the wiring requirements, with adequately sized structures and pre-engineered sites for mounting the horizontal and vertical plastic ducts.

The switchboards comprise the following components:

- Structure: simple and quick to assemble. Stability is ensured thanks to the new double-surface profile of the upright and the new
- Internal kits: designed to integrate ABB's low voltage products. Save time during the assembly work thanks to the patented new
- Main distribution systems: available in the linear and scaled versions. Allow the busbars to be installed in any position, horizontally or
- vertically

The range of System pro E power structures can be used to create lots of switchboard configurations while guaranteeing flexibility and a certified product. Up to 120 different configurations can be assembled with a just a few part numbers. This new series features a structure in hot-dip galvanized sheet steel that guarantees equipotential bonding of the switchboard.

IP protection degrees for all types of applications, i.e. up to IP65, can be obtained. It's the only switchboard to reach such a high value. Certification was achieved after stringent tests involving the entire configuration (structure, circuit-breakers and busbar system), thus systems conforming to the new international standard IEC 61439-1-2 can be created by following ABB's instructions. ABB apparatus can be installed inside the switchboards with high-level integration and optimized use of the available space thanks to the new modules, i.e. 150mm in height, as well as the usual 200mm modules. The circuit-breakers can be internally separated from Form 1 to Form 4b.

Main characteristics of the series

Compliance with Standard		IEC 61439-1-2
Vibration test		In accordance with Standard IEC 60068-2-57
Seismic withstand capability test		In accordance with Standard IEE Std 693
Rated service voltage Ue		690V AC
Rated insulation voltage Ui		up to 1000V AC - 1500V DC
Rated frequency		50-60Hz
Rated impulse withstand voltage Uimp		12kV
Rated current In		up to 6300A
Rated short-time withstand current Icw		up to 120kA
Rated peak short-circuit current Ipk		up to 264kA
IP protection class		IP30, IP31, IP40, IP41, IP65
Functional dimensions	**Height (mm)**	1800, 2000mm
	Width (mm)	300, 400, 600, 800, 1000, 1250mm
	Depth (mm)	200, 300, 500, 700, 900mm



Reliable in extreme conditions
Thanks to the tests performed on the product, the enclosures can stand a rated short-time withstand current (Icw) up to 120 kA and a Maximum rated current up to 6300A. The solution is also provided of an ant seismic certification, thanks to a shock level test up to 0.75 g performed with the installation of specific accessories. The safety is also guaranteed by the complete range of segregation forms up to 4b and by the blind tops arc fault resistant (composed by two flaps that, in case of internal arc fault, allow its outburst upward, protecting an operator that could be present in front of the switchboard).

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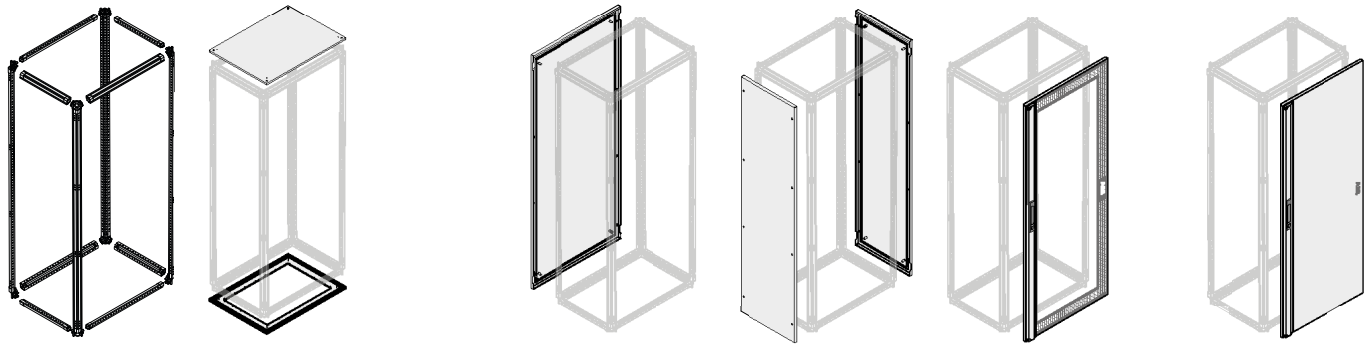
For example, further space (up to 38%) can be saved by mounting two air circuit breakers in one column In 2500A, width 400mm (E2.2 F/W 3P), thanks to the dedicated components.

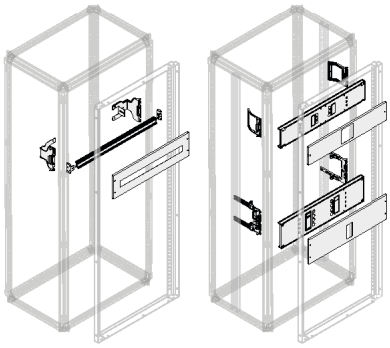


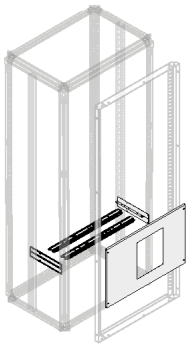
Range presentation
Composition of the series

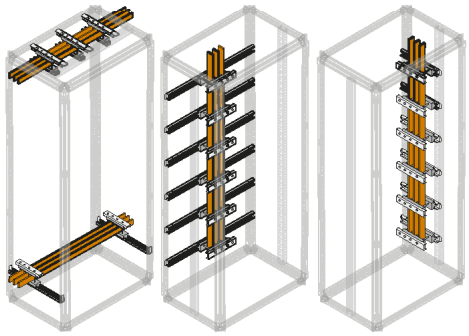


STRUCTURE			EXTERNAL COVERS											
			Top/Bottom			Rear panel		Side panels		Door				
Functional dimensions			Blind	Open[1]	Internal bottom	Blind	Vented	Blind	Vented	Glass		Blind		
H (mm)	W (mm)	D (mm)	IP30 to 65	IP65	IP40	IP40 to IP65	IP30/31	IP40 to IP65	IP30/31	IP30 to IP41	IP65	IP30 to IP41	IP65	
1800 2000	300	200	✓	✓	✓	✓	✓	✓				✓	✓	
		300	✓	✓	✓	✓	✓	✓	✓			✓	✓	
		500	✓	✓	✓	✓	✓	✓	✓			✓	✓	
		700	✓	✓	✓	✓	✓	✓	✓			✓	✓	
		900	✓	✓	✓	✓	✓	✓	✓			✓	✓	
	400	200	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
		300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		500	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		700	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		900	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	600	200	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
		300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		500	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		700	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		900	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	800	200	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
		300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		500	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		700	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		900	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	1000	200	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
		300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		500	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		700	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		900	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
	1250	200				✓	✓	✓	✓	✓	✓	✓	✓	
		900	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

[1] Use the dedicated incoming cable flanges to obtain protection class IP65.







KITS FOR APPARATUS																MAIN DISTRIBUTION SYSTEM			
Modular circuit-breakers	Tmax Series moulded-case circuit-breakers							Emax 2 Series air circuit-breakers								Horizontal		Vertical	
System pro M	XT1	XT2	XT3	T4 XT4	T5 XT5	T6 XT6	T7 XT7	E1.2	E2.2	E4.2	E6. 2	E6. 2	E6. 2	E6. 2		Top/ bottom	All heights	Rear	Side
	3/4P	3/4P	3/4P	3/4P	3/4P	3/4P	3/4P	3/4P	3/4P	3/4P	3P	3/4P neutral 50%	4P neutral 100%	4P neutral 50/100%		D (mm)	D (mm)	W (mm)	D (mm)
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													✓	✓		✓	✓	✓	✓

Chapter 2
Structure

2–2 **General information**

2–6 **Choice of the structure**

2–8 **H=1800mm quick selection guide**

2–10 **H=2000mm quick selection guide**

2–12 **Guide to the order codes**

2–13 **Order codes**

2–13 **Frame**

2–19 **External covers**

2–36 **Finishing components**

2–40 **Accessories and spare parts**

Structure
General information

The range of System pro E power structures can be used to create lots of switchboard configurations while guaranteeing scalability, flexibility and a certified product.

Structure
The structure can be assembled in different ways. Moreover, assembly is error-free since the uprights and crosspieces are symmetrical.
The structure comprises:
- Uprights and crosspieces
- Plinth and flanges
- Top/Bottom
- Door and panels

To ensure the utmost freedom of choice, flexibility and to save on storage space, the components that form the structure are supplied loose, each one identified by an order code.

Functional dimensions available

Type of installation	Dimensions
Height (functional)	1800, 2000mm
Width (functional)	300, 400, 600, 800, 1000, 1250mm
Depth (functional)	200, 300, 500, 700, 900, 1250 mm

Uprights and crosspieces
The uprights and crosspieces (width and depth) have the same laser-beam welded 13-fold profile and are assembled by means of a patented new joining system with 3 axial screws that makes the switchboard incredibly sturdy.

The uprights are available in galvanized sheet metal or AISI 304 stainless steel for In >4000A rated current values, able to limit stray currents. Thanks to its shape, the new profile provides 2 surface levels on the same side to allow different kits to be mounted.

The holes made inside are an important innovation, i.e. the 25mm pitch alternation between a round hole and a square one. Selfthreading screws can be inserted into the round holes while the square hole has been created for fastening kits.

The holes made on the outside are different, since there are two round holes with different diameters able to take self-threading screws and round cage nuts. The two different types of holes alternate with a 25mm pitch as required by the DIN Standards.



—
Structures with blind door

W (mm)	300	400	600	800	1000	1250*
DIN modules		12	24	36	-	-

* Double door version with overlapping closing.



—
Structures with glass door

W (mm)	400	600	800	1000	1250*
DIN modules	12	24	36	-	-

* Double door version with overlapping closing.



—
Structures with glass door and internal cable compartment

W (mm)	400	600	800
DIN modules	12	24	36



—

New laser-beam welded upright with 13 folds. Extremely sturdy without being too heavy.

Plinth and flanges
The innovative plinth angle piece featuring a patented “folding” system guarantees high-level mechanical strength and can be fastened from the inside and outside of the structure. The switchboard can also be ordered without plinth and, if required by the project specifications or requested by the end customer, the plinth angle piece can be fixed to the structure in a successive stage.

The plinth has an anti-rotation device for easier transport on transpallets. The reinforced version is available on request and allows the switchboard to be moved on rollers.

Top/Bottom
New types of top/bottom have been used so as to allow cables to enter from above or below, also thanks to the special flanges that guarantee the desired IP class.

Door and Panels
The doors are available in the glass or blind versions and open through 135° on single units. Door opening through 180° can be obtained on request.
For maximum flexibility and ease of use, the hinges are no longer fixed to the uprights but are supplied in the door Pkg.
The handle is not fixed and allows the user to choose whether the door must open towards the right or left.
The handle can house various types of closing inserts (double tab, key-operated, etc.).
The panels are fixed with TORX screws and come in the RAL7035 orange peel.

Structure
General information

—
01 New 3-way connection in aluminium. Allows the plinth to be assembled and the structure to be lifted. Double-profile uprights for mounting accessories and kits at different depths.
—
02 New plinth with highlevel mechanical strength. Equipped with anti-rotation system. Thanks to its innovative shape, it can be fixed from the inside and outside of the structure.

Frame

Uprights and crosspieces

- New profile with 2 surface levels on the same side to allow different kits to be mounted.
- Uprights and crosspieces in galvanized sheet metal or AISI 304 stainless steel for In >4000A rated current values, able to limit stray
- currents.
- Easy to assemble: new joining system with 3 axial screws.
- Extremely sturdy: 13 laser-beam welded folds.
- Small Pkgs.
- Internal kits mounted with a rapid system using 1/4-turn screws.

For details, see Chapter 7 - Strength of the upright.

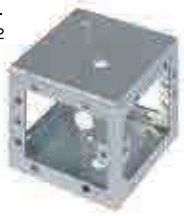
Plinth

- High-level mechanical strength.
- Can be fixed from the outside and from the inside of the structure.
- Can be fixed to the structure in a successive phase.
- Plinth angle piece with anti-rotation system.
- Bottom can be transported on a transpallet.

—
01



—
02





Structural crosspieces for depth and width in galvanized sheet metal
Pag. 2/14

Uprights in galvanized sheet metal
Pag. 2/13

Universal angle pieces for plinths in galvanized sheet metal
Pag. 2/17

Plinth flanges in galvanized sheet metal painted in RAL 7012 orange peel
Pag. 2/18

—
03 The handle can house different types of closing inserts and comes with hinges no longer fixed to the uprights, but supplied with the door and panel accessories.
—
04 The stylish handles are customized with the ABB logo.

External covers

The new design partly reflects ABB's distinctive, classic style while System pro E power adds to the elegant appearance without forgoing functionality or sturdiness.
The family feeling proposed by the versions and accessories in ABB's range is underscored throughout, thereby guaranteeing the utmost flexibility as to assembly.

Thanks to the handle, which can house different types of closing inserts and is supplied with the door hinges (no longer fixed to the upright), a vast range of assembly solutions can be obtained to suit the customers' requirements.
It is impossible to commit errors when assembling the structure. Ease of assembly is guaranteed since

the hinges are no longer already fixed to the uprights but are supplied with the door and panel accessories.
Tops and bottoms are not pre-assembled but supplied separately to allow different incoming-outgoing combinations to be obtained.

The new main distribution switchboards are available in versions with glass or blind doors.

Doors and panels

- Family feeling that reflects in all the versions/ applications/installations (glass door, blind door).
- The handle allows different inserts to be used.
- The handle and hinges are supplied disassembled. This allows the customer to choose whether the door must open towards the
- right or left.

—
03



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04





Blind top/bottom, open bottom and for applications without plinth for up to IP65 degree of protection in pickled steel sheet painted in RAL 7035 orange peel.
Pag. 2/19

Glass door or blind door in pickled steel sheet painted in RAL 7035 orange peel, up to IP65 degree of protection.
Pag. 2/32

External rear panel in pickled steel sheet painted in RAL 7035 orange peel, up to IP65 degree of protection.
Pag. 2/28

External side panel in pickled steel sheet painted in RAL 7035 orange peel, up to IP65 degree of protection.
Pag. 2/29

Incoming cable flanges in pickled steel sheet.
Pag. 2/24

Structure
Choice of the structure

Composition examples of IP degree protection

IP30

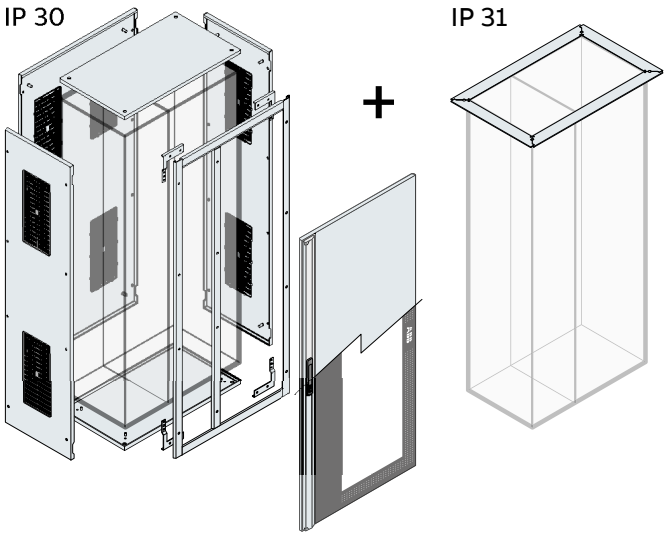
IP30/IP40 blind top/bottom

IP30 side/rear vented panels PPEA.... (without gasket)

IP30 vertical finishing profiles for structure or external cable container PPFV.... or PPCV.... and horizontal finishing profiles PPFH....
or
Blind door PDLB...., or glass door PDLG.... (without gasket)

IP31

Add to IPX1 codes the top sealing kit PKST.... and PKDT....



IP40

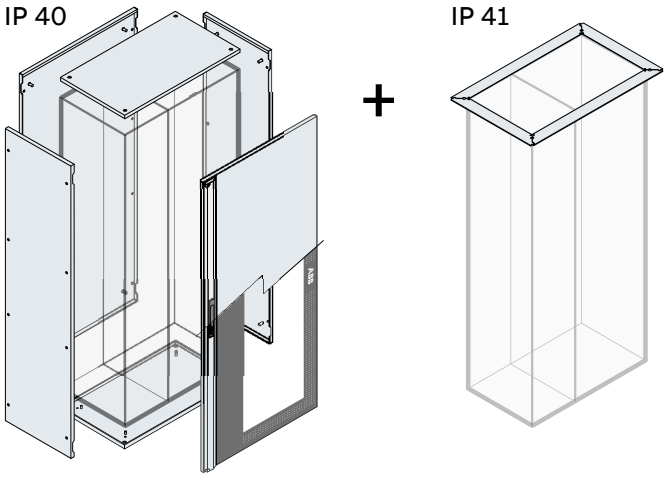
IP30/IP40 blind top/bottom

IP40 side/rear blind panels PPEB.... (without gasket)

Blind door PDLB...., or glass door PDLG.... (without gasket)

IP41

Add to IPX1 codes the top sealing kit PKST.... and PKDT....

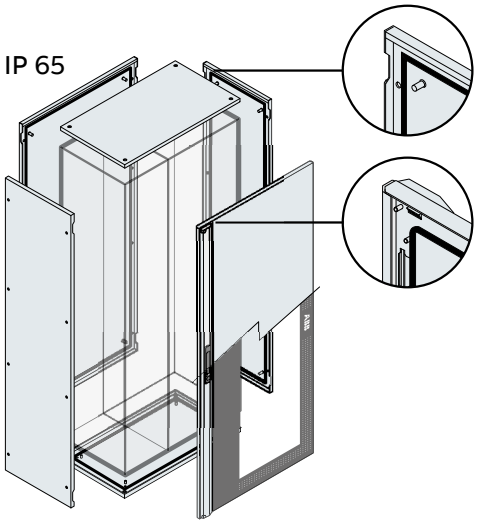


IP65

IP65 side/rear blind panels PPEB.... (with gasket)

Top/Bottom IP65 PTBB...., PTBO... (with gasket)

Blind door PDLB.... or glass door PDLG.... (with gasket)



Examples of use

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01 Structure with rear cable compartment: to be realized by means of 2 crosspieces for structure PCCM.... and 2 uprights for internal cable compartment PUCM.... o PUCS....

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02 Back to back structure

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03 Structure with double internal cable compartment: to be realized by means of crosspieces for internal cable compartment PCCS.... and uprights for internal cable compartment PUCM.... o PUCS....

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04 Structure with left/ right internal cable compartment: to be realized by means of crosspieces for internal cable compartment PCCS...and uprights for internal cable compartment PUCM... or PUCS... the kit are chosen in relation of the width C.

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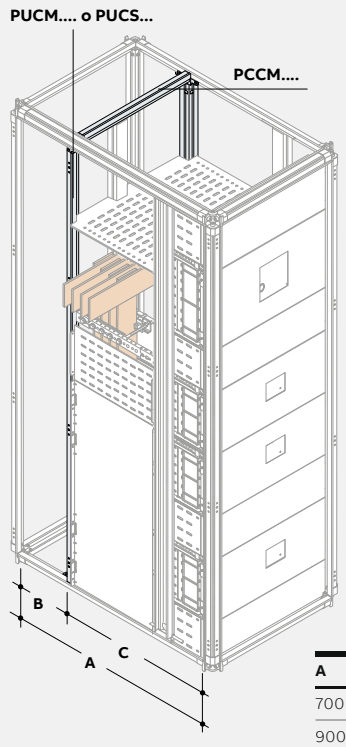
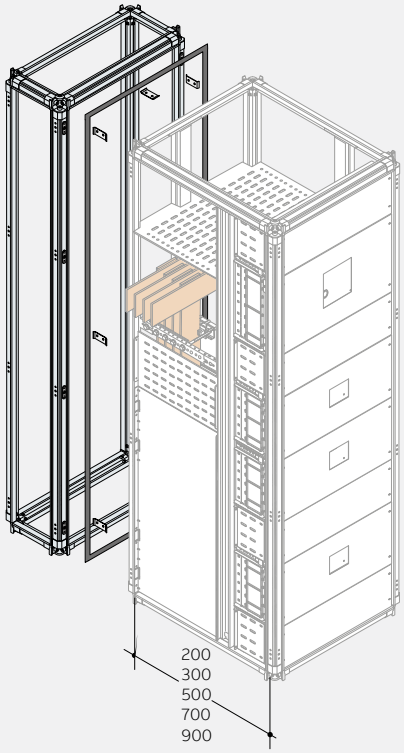
01



A	B	C
700	200	500
900	200	700
900	400	500
1250	350	900

—
02



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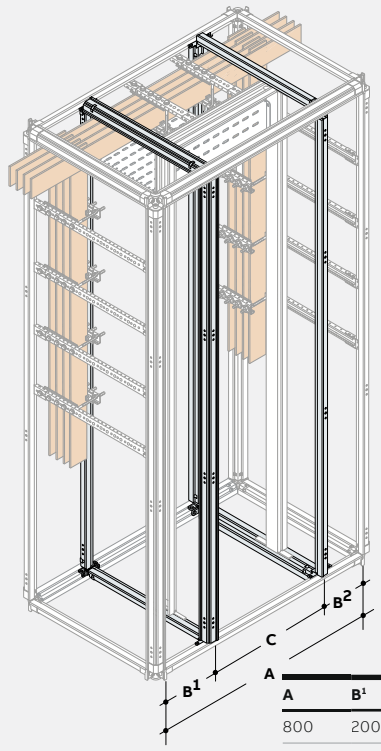
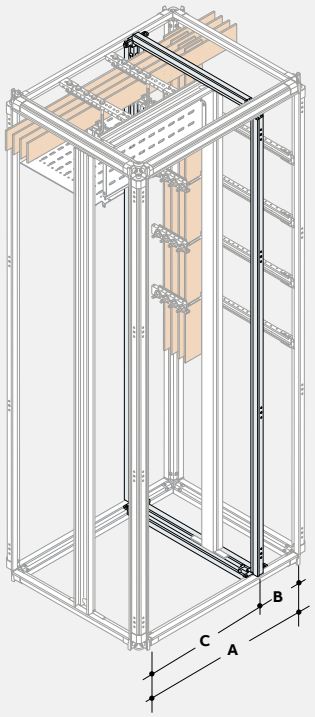
03



A	B¹	C	B²
800	200	400	200
1000	200 400	400 400	400 200
1000	200	600	200

—
04

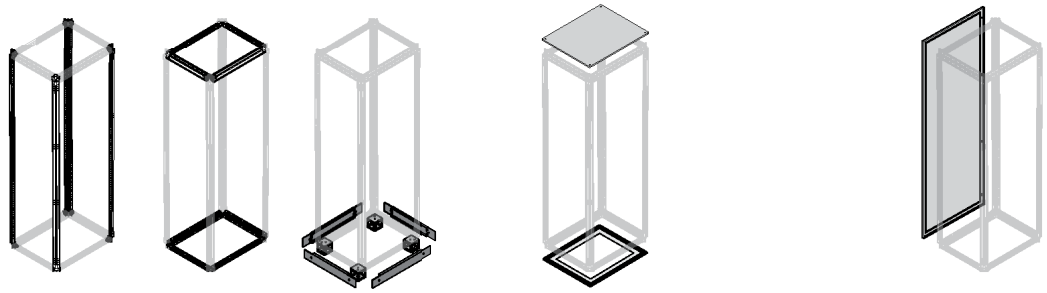


A	B	C
600*	200	400
800	200	600
800*	400	400
1000	200	800
1000	400	600

*Blind top/bottom only.

Structure

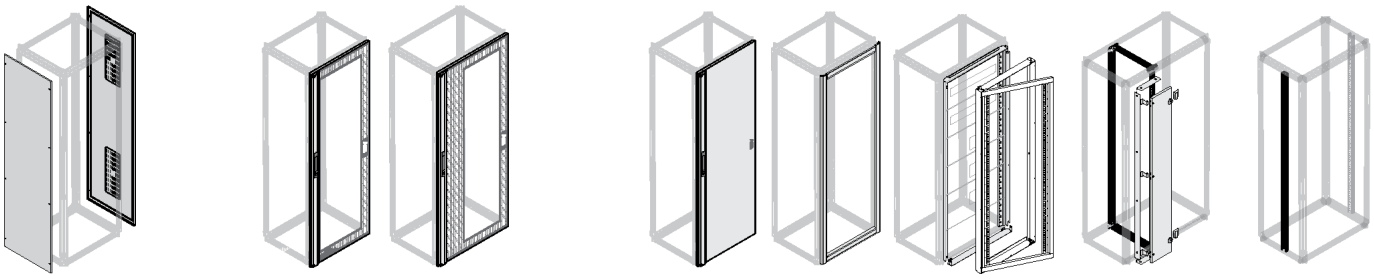
Choice of the structure



H=1800mm quick selection guide

Functional dimensions		Esternal * dimensions		FRAME						EXTERNAL COVERS							
Height 1800mm		Height 2013mm		Uprights		Structure crosspieces		H=100mm plinth		Top/bottom panels					Front/side panels		
						Galvanized sheet metal		Galvanized sheet metal		Top/Bottom			Bottom		Rear panel		
									Plinth flanges	Blind		Open [2]	Without plinth		Blind		Vented
W (mm)	D (mm)	W (mm)	D (mm)	Galvanized sheet metal In≤4000A	Stainless steel and galvanized sheet metal In>4000A**	Front/Rear	Sides	Angle pieces	Front/Rear	Sides	IP65	IP30[1] IP40[1]	IP65	IP40	IP65	IP40[1]	IP30[1]
300	200	416	316	PUPM1800	PUPM1802	PCFM0300	PCFM0200	PPAM0100	PPFM1030	PPFM1020	PTBB3026	PTBB3020	PTBO3020	PBWP3020	PPEB1836	PPEB1830	PPEA1830
	300		416				PCFM0300			PPFM1030	PTBB3036	PTBB3030	PTBO3030	PBWP3030			
	500		616				PCFM0500			PPFM1050	PTBB3056	PTBB3050	PTBO3050	PBWP3050			
	700		816				PCFM0700			PPFM1070	PTBB3076	PTBB3070	PTBO3070	PBWP3070			
	900		1016				PCFM0900			PPFM1090	PTBB3096	PTBB3090	PTBO3090	PBWP3090			
	1250		1366				PCFM1250	PPAM0100 PPI M0100		PPFM1250		PTBB3012	PTBO3012	PBWP3012			
400	200	516	316		PUPM1802	PCFM0400	PCFM0200	PPAM0100	PPFM1040	PPFM1020	PTBB4026	PTBB4020	PTBO4020	PBWP4020	PPEB1846	PPEB1840	PPEA1840
	300		416				PCFM0300			PPFM1030	PTBB4036	PTBB4030	PTBO4030	PBWP4030			
	500		616				PCFM0500			PPFM1050	PTBB4056	PTBB4050	PTBO4050	PBWP4050			
	700		816				PCFM0700			PPFM1070	PTBB4076	PTBB4070	PTBO4070	PBWP4070			
	900		1016				PCFM0900			PPFM1090	PTBB4096	PTBB4090	PTBO4090	PBWP4090			
	1250		1366				PCFM1250	PPAM0100 PPI M0100		PPFM1250		PTBO4012	PTBO4012	PBWP4012			
600	200	716	316		PUPM1802	PCFM0600	PCFM0200	PPAM0100	PPFM1060	PPFM1020	PTBB6026	PTBB6020	PTBO6020	PBWP6020	PPEB1866	PPEB1860	PPEA1860
	300		416				PCFM0300			PPFM1030	PTBB6036	PTBB6030	PTBO6030	PBWP6030			
	500		616				PCFM0500			PPFM1050	PTBB6056	PTBB6050	PTBO6050	PBWP6050			
	700		816				PCFM0700			PPFM1070	PTBB6076	PTBB6070	PTBO6070	PBWP6070			
	900		1016				PCFM0900			PPFM1090	PTBB6096	PTBB6090	PTBO6090	PBWP6090			
	1250		1366				PCFM1250	PPAM0100 PPI M0100		PPFM1250		PTBB6012	PTBO6012	PBWP6012			
800	200	916	316		PUPM1802	PCFM0800	PCFM0200	PPAM0100	PPFM1080	PPFM1020	PTBB8026	PTBB8020	PTBO8020	PBWP8020	PPEB1886	PPEB1880	PPEA1880
	300		416				PCFM0300			PPFM1030	PTBB8036	PTBB8030	PTBO8030	PBWP8030			
	500		616				PCFM0500			PPFM1050	PTBB8056	PTBB8050	PTBO8050	PBWP8050			
	700		816				PCFM0700			PPFM1070	PTBB8076	PTBB8070	PTBO8070	PBWP8070			
	900		1016				PCFM0900			PPFM1090	PTBB8096	PTBB8090	PTBO8090	PBWP8090			
	1250		1366				PCFM1250	PPAM0100 PPI M0100		PPFM1250		PTBB8012	PTBO8012	PBWP8012			
1000	200	1116	316		PUPM1802	PCFM1000	PCFM0200	PPAM0100	PPFM1010	PPFM1020	PTBB1026	PTBB1020			PPEB1816	PPEB1810	PPEA1810
	300		416				PCFM0300			PPFM1030	PTBB1036	PTBB1030	PTBO1030	PBWP1030			
	500		616				PCFM0500			PPFM1050	PTBB1056	PTBB1050	PTBO1050	PBWP1050			
	700		816				PCFM0700			PPFM1070	PTBB1076	PTBB1070	PTBO1070	PBWP1070			
	900		1016				PCFM0900			PPFM1090	PTBB1096	PTBB1090	PTBO1090	PBWP1090			
	1250		1366				PCFM1250	PPAM0100 PPI M0100		PPFM1250		PTBB1012	PTBO1012	PBWP1012			
1250	200	1366	316		PUPM1802	PCFM1250	PCFM0200	PPAM0100 PPIM0100	PPFM1250	PPFM1020		PTBB1220				PPRB1820[3] PPLB1820[4]	PPRA1820[5] PPLA1820[4]
	300		416				PCFM0300			PPFM1030		PTBB1230					
	900		1016				PCFM0900			PPFM1090		PTBB1290	PTBO1290	PBWP1290			
	1250		1366				PCFM1250			PPFM1250		PTBB1212	PTBO1212	PBWP1212			

* The external dimensions include the H=100mm plinth and the panels.
** Questo codice deve essere utilizzato per applicazioni con In > 4000A.
** This code has to be used for application with In >4000A. It includes No. 2 stainless steel uprights and No. 2 galvanized sheet metal uprights see pag. 2/13.
Consult page 2/6 for selection of the protection class.
[1] In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit, page 2/22.
[2] Use the dedicated incoming cable flanges to obtain protection class IP65.
Cables flanges page 2/25.
[3] Right rear panel for structures W=1250mm.
[4] Left rear panel for structures W=1250mm.
[5] Door with overlapping for the double door version.
[6] Door with handle for the double door version.
[7] Finishing profile vertical internal cable compartment.



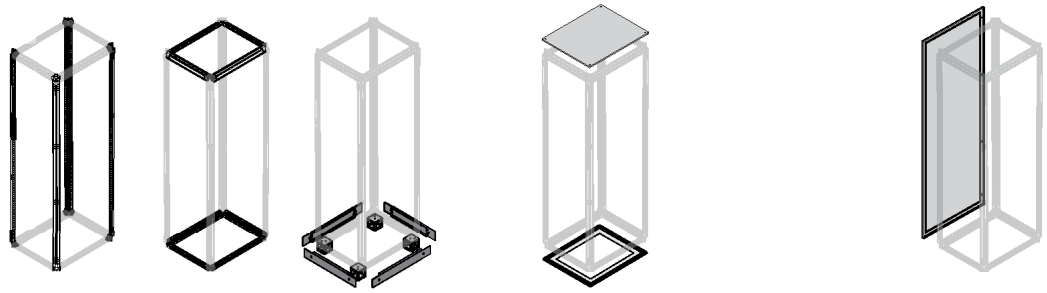
Side panel			Glass door 12/24/36 mod. DIN		Glass door 12/24/36 mod. DIN + internal cable compartment				Blind door 12/24/36 mod. DIN		Finishing profile IP30		Frame for panels			Internal cable compartment [8]			
Blind		Vented															Internal door		
IP65	IP40[1]	IP30[1]	IP65	IP30[1] IP40[1]	Cable comp. W=200 IP65	Cable comp. W=400 IP65	Cable comp. W=200 IP40[1]	Cable comp. W=400 IP40[1]	IP65	IP30[1] IP40[1]	Vertic.	Horizz.	Fixed	Special fixed	Swing	Uprights	Crosspieces	W= 200	W= 400	Intermediate upright
PPEB1826	PPEB1820																PCCM0200			
PPEB1836	PPEB1830	PPEA1830															PCCM0300			
PPEB1856	PPEB1850	PPEA1850							PDLB1836	PDLB1830		PPFH0300					PCCM0500			
PPEB1876	PPEB1870	PPEA1870															PCCM0700			
PPEB1896	PPEB1890	PPEA1890															PCCM0900			
	PPRB1821+ PPLB1821	PPEA1821+ PPLB1821																		
PPEB1826	PPEB1820																PCCM0200			
PPEB1836	PPEB1830	PPEA1830															PCCM0300			
PPEB1856	PPEB1850	PPEA1850	PDLG1846	PDLG1840					PDLB1846	PDLB1840		PPFH0400	PFPF1840	PFFA1840	PFPS1840		PCCM0500			
PPEB1876	PPEB1870	PPEA1870															PCCM0700			
PPEB1896	PPEB1890	PPEA1890															PCCM0900			
	PPRB1821+ PPLB1821	PPEA1821+ PPLB1821																		
PPEB1826	PPEB1820																PCCM0200			
PPEB1836	PPEB1830	PPEA1830															PCCM0300			
PPEB1856	PPEB1850	PPEA1850	PDLG1866	PDLG1860	PDLG1842			PDLG8420	PDLB1866	PDLB1860		PPFH0600	PFPF1860	PFFA1860	PFPS1860		PCCM0500			
PPEB1876	PPEB1870	PPEA1870															PCCM0700			
PPEB1896	PPEB1890	PPEA1890															PCCM0900			
	PPRB1821+ PPLB1821	PPEA1821+ PPLB1821																		
PPEB1826	PPEB1820																PCCM0200			
PPEB1836	PPEB1830	PPEA1830															PCCM0300			
PPEB1856	PPEB1850	PPEA1850	PDLG1886	PDLG1880	PDLG1862	PDLG1844	PDLG8620	PDLG8440	PDLB1886	PDLB1880	PPFV1800 PPCV1800[7]	PPFH0800	PFPF1880	PFFA1880	PFPS1880	PUCM1800 PUCS1800	PCCM0500	PDCB1820	PDCB1840	PUKI1800[9]
PPEB1876	PPEB1870	PPEA1870															PCCM0700			
PPEB1896	PPEB1890	PPEA1890															PCCM0900			
	PPRB1821+ PPLB1821	PPEA1821+ PPLB1821																		
	PPEB1820																PCCM0200			
PPEB1836	PPEB1830	PPEA1830															PCCM0300			
PPEB1856	PPEB1850	PPEA1850	PDLG1816	PDLG1810	zPDLG1882	PDLG1864	PDLG8820	PDLG8640	PDLB1816	PDLB1810		PPFH1000	PFPF1810	PFFA1810			PCCM0500			
PPEB1876	PPEB1870	PPEA1870															PCCM0700			
PPEB1896	PPEB1890	PPEA1890															PCCM0900			
	PPRB1821+ PPLB1821	PPEA1821+ PPLB1821																		
	PPEB1820																PCCM0200			
	PPEB1830			PDLB8120[5] PDLG8500[6]						PDLB8120[5] PDLB8500[6]		PPFH1200	PFPF1812	PFFA1825			PCCM0300			
	PPEB1890	PPEA1890															PCCM0900			
	PPRB1821+ PPLB1821	PPEA1821+ PPLB1821																		

[8] PPCCM... to be ordered when there is an intermediate upright for mounting kit (PUKI....) or an intermediate crosspiece for installing busbars horizontally under the top or on the bottom of the (PCKI....) structure or when vertical side partitions are installed.Not compatible with IP40 PBWP....
PUCM... The front upright is always required.
The rear upright is used for fixing the crosspieces that support the busbars and for fixing the vertical side partitions of the structure.
For In >4000A the rear upright for ICC is PUCS....

[9] The intermediate uprights (PUKI....) are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, XT5, XT6, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in not segregated structures. Order 2 uprights for the kits. To be ordered (2 pieces) for segregation structure except for 2b with kits that don't required PUKI.... To be ordered in case of vertical/horizontal busbar system.

Structure

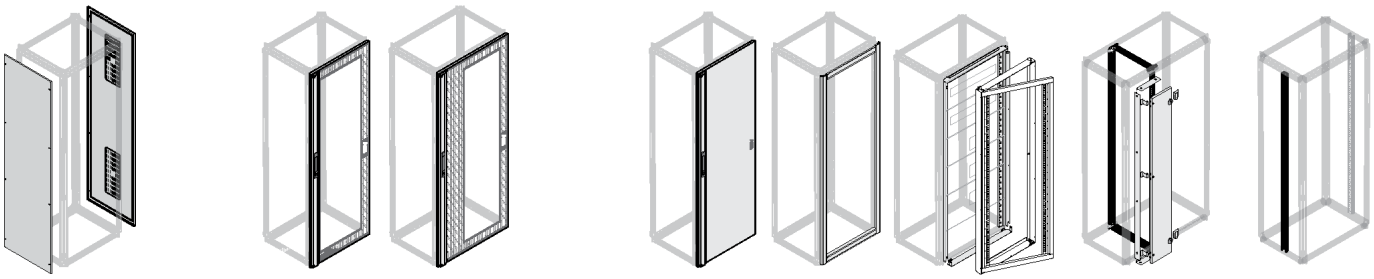
Choice of the structure



H=2000mm quick selection guide

Functional dimensions		Esternal * dimensions		FRAME							EXTERNAL COVERS						
Height 1800mm		Height 2013mm		Uprights		Structure crosspieces		H=100mm plinth			Top/bottom panels				Front/side panels		
						Galvanized sheet metal		Galvanized sheet metal			Top/Bottom			Bottom	Rear panel		
									Plinth flanges		Blind		Open [2]	Without plinth	Blind	Vented	
W (mm)	D (mm)	W (mm)	D (mm)	Galvanized sheet metal In≤4000A	Stainless steel and galvanized sheet metal In>4000A**	Front/Rear	Sides	Angle pieces	Front/ Rear	Sides	IP65	IP30[1] IP40[1]	IP65	IP40	IP65	IP40[1]	IP30[1]
300	200	416	316	PUPM2000	PUPM2002	PCFM0300	PCFM0200	PPAM0100	PPFM1030	PPFM1020	PTBB3026	PTBB3020	PTBO3020	PBWP3020	PPEB2036	PPEB2030	PPEA2030
	300		416				PCFM0300			PPFM1030	PTBB3036	PTBB3030	PTBO3030	PBWP3030			
	500		616				PCFM0500			PPFM1050	PTBB3056	PTBB3050	PTBO3050	PBWP3050			
	700		816				PCFM0700			PPFM1070	PTBB3076	PTBB3070	PTBO3070	PBWP3070			
	900		1016				PCFM0900			PPFM1090	PTBB3096	PTBB3090	PTBO3090	PBWP3090			
	1250		1366				PCFM1250	PPAM0100 PPI M0100		PPFM1250		PTBB3012	PTBO3012	PBWP3012			
400	200	516	316		PUPM2002	PCFM0400	PCFM0200	PPAM0100	PPFM1040	PPFM1020	PTBB4026	PTBB4020	PTBO4020	PBWP4020	PPEB2046	PPEB2040	PPEA2040
	300		416				PCFM0300			PPFM1030	PTBB4036	PTBB4030	PTBO4030	PBWP4030			
	500		616				PCFM0500			PPFM1050	PTBB4056	PTBB4050	PTBO4050	PBWP4050			
	700		816				PCFM0700			PPFM1070	PTBB4076	PTBB4070	PTBO4070	PBWP4070			
	900		1016				PCFM0900			PPFM1090	PTBB4096	PTBB4090	PTBO4090	PBWP4090			
	1250		1366				PCFM1250	PPAM0100 PPI M0100		PPFM1250		PTBB4012	PTBO4012	PBWP4012			
600	200	716	316		PUPM2002	PCFM0600	PCFM0200	PPAM0100	PPFM1060	PPFM1020	PTBB6026	PTBB6020	PTBO6020	PBWP6020	PPEB2066	PPEB2040	PPEA2060
	300		416				PCFM0300			PPFM1030	PTBB6036	PTBB6030	PTBO6030	PBWP6030			
	500		616				PCFM0500			PPFM1050	PTBB6056	PTBB6050	PTBO6050	PBWP6050			
	700		816				PCFM0700			PPFM1070	PTBB6076	PTBB6070	PTBO6070	PBWP6070			
	900		1016				PCFM0900			PPFM1090	PTBB6096	PTBB6090	PTBO6090	PBWP6090			
	1250		1366				PCFM1250	PPAM0100 PPI M0100		PPFM1250		PTBB6012	PTBO6012	PBWP6012			
800	200	916	316		PUPM2002	PCFM0800	PCFM0200	PPAM0100	PPFM1080	PPFM1020	PTBB8026	PTBB8020	PTBO8020	PBWP8020	PPEB2086	PPEB2080	PPEA2080
	300		416				PCFM0300			PPFM1030	PTBB8036	PTBB8030	PTBO8030	PBWP8030			
	500		616				PCFM0500			PPFM1050	PTBB8056	PTBB8050	PTBO8050	PBWP8050			
	700		816				PCFM0700			PPFM1070	PTBB8076	PTBB8070	PTBO8070	PBWP8070			
	900		1016				PCFM0900			PPFM1090	PTBB8096	PTBB8090	PTBO8090	PBWP8090			
	1250		1366				PCFM1250	PPAM0100 PPI M0100		PPFM1250		PTBB8012	PTBO8012	PBWP8012			
1000	200	1116	316		PUPM2002	PCFM1000	PCFM0200	PPAM0100	PPFM1010	PPFM1020	PTBB1026	PTBB1020			PPEB2016	PPEB2010	PPEA2010
	300		416				PCFM0300			PPFM1030	PTBB1036	PTBB1030	PTBO1030	PBWP1030			
	500		616				PCFM0500			PPFM1050	PTBB1056	PTBB1050	PTBO1050	PBWP1050			
	700		816				PCFM0700			PPFM1070	PTBB1076	PTBB1070	PTBO1070	PBWP1070			
	900		1016				PCFM0900			PPFM1090	PTBB1096	PTBB1090	PTBO1090	PBWP1090			
	1250		1366				PCFM1250	PPAM0100 PPI M0100		PPFM1250		PTBB1012	PTBO1012	PBWP1012			
1250	200	1366	316		PUPM2002	PCFM1250	PCFM0200	PPAM0100 PPIM0100	PPFM1250	PPFM1020		PTBB1220				PPRB2020[3] PPLB2020[4]	PPRB2020[3] PPLB2020[4]
	300		416				PCFM0300			PPFM1030		PTBB1230					
	900		1016				PCFM0900			PPFM1090		PTBB1290	PTBO1290	PBWP1290			
	1250		1366				PCFM1250			PPFM1250		PTBB1212	PTBO1212	PBWP1212			

* The external dimensions include the H=100mm plinth and the panels.
** Questo codice deve essere utilizzato per applicazioni con In > 4000A.
** This code has to be used for application with In >4000A. It includes No. 2 stainless steel uprights and No. 2 galvanized sheet metal uprights see pag. 2/13.
Consult page 2/6 for selection of the protection class.
[1] In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit, page 2/22.
[2] Use the dedicated incoming cable flanges to obtain protection class IP65.
Cables flanges page 2/25.
[3] Right rear panel for structures W=1250mm.
[4] Left rear panel for structures W=1250mm.
[5] Door with overlapping for the double door version.
[6] Door with handle for the double door version.
[7] Finishing profile vertical internal cable compartment.



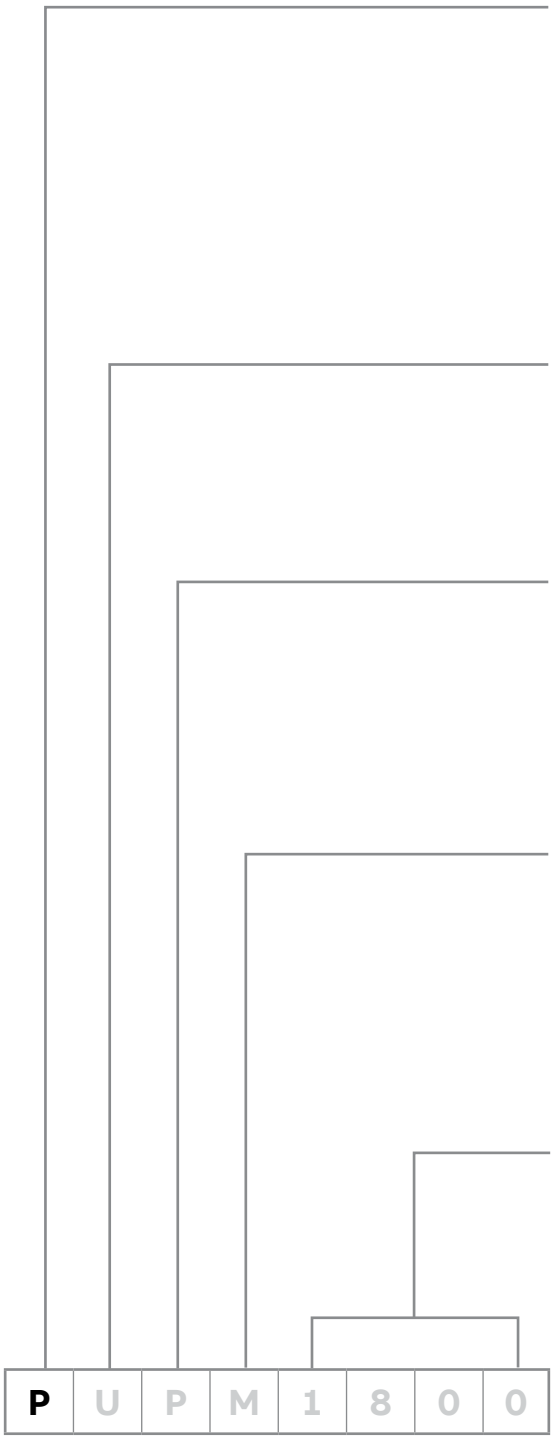
Side panel			Glass door 12/24/36 mod. DIN		Glass door 12/24/36 mod. DIN + internal cable compartment				Blind door 12/24/36 mod. DIN		Finishing profile IP30	Frame for panels			Internal cable compartment [8]				
Blind		Vented															Internal door		
IP65	IP30[1] IP40[1]	IP30[1]	IP65	IP30[1] IP40[1]	Cable comp. W=200 IP65	Cable comp. W=400 IP65	Cable comp. W=200 IP40[1]	Cable comp. W=400 IP40[1]	IP65	IP30[1] IP40[1]	Vertic.	Horizz.	Fixed	Special fixed	Swing	Uprights	Crosspieces	W= 200	W= 400	Intermediate upright
PPEB2026	PPEB2020		PDLG2046	PDLG2040	PDLG2042	PDLG2044	PDLG2420	PDLG8440	PDLB2066	PDLB2060	PPFV2000 PPCV2000[7]	PPFH0600	PFPF2060	PFFA2060	PFPS2060	PUCM2000 PUCS2000	PCCM0200	PDCB2020	PDCB2040	PUKI2000[9]
PPEB2036	PPEB2030	PPEA2030															PCCM0300			
PPEB2056	PPEB2050	PPEA2050															PCCM0500			
PPEB2076	PPEB2070	PPEA2070															PCCM0700			
PPEB2096	PPEB2090	PPEA2090															PCCM0900			
	PPRB2021+ PPLB2021	PPEA2021+ PPLB2021																		
PPEB2026	PPEB2020		PDLG2066	PDLG2060	PDLG2062	PDLG2064	PDLG2620	PDLG8640	PDLB2086	PDLB2080		PPFH0800	PFPF2080	PFFA2080	PFPS2080		PCCM0200			
PPEB2036	PPEB2030	PPEA2030															PCCM0300			
PPEB2056	PPEB2050	PPEA2050															PCCM0500			
PPEB2076	PPEB2070	PPEA2070															PCCM0700			
PPEB2096	PPEB2090	PPEA2090															PCCM0900			
	PPRB2021+ PPLB2021	PPEA2021+ PPLB2021																		
PPEB2036	PPEB2020		PDLG2016	PDLG2010	PDLG2082	PDLG2064	PDLG2820	PDLG8640	PDLB2016	PDLB2010		PPFH1000	PFPF2010	PFFA2010			PCCM0200			
PPEB2056	PPEB2030	PPEA2030															PCCM0300			
PPEB2076	PPEB2050	PPEA2050															PCCM0500			
PPEB2096	PPEB2070	PPEA2070															PCCM0700			
	PPEB2090	PPEA2090															PCCM0900			
	PPRB2021+ PPLB2021	PPEA2021+ PPLB2021																		
	PPEB2020			PDLB2120[5] PDLG2500[6]						PDLB2120[5] PDLG2500[6]		PPFH1200	PFPF2012	PFFA2025			PCCM0200			
	PPEB2030																PCCM0300			
	PPEB2090	PPEA2090															PCCM0900			
	PPRB2021+ PPLB2021	PPEA2021+ PPLB2021																		

[8] PPCCM... to be ordered when there is an intermediate upright for mounting kit (PUKI....) or an intermediate crosspiece for installing busbars horizontally under the top or on the bottom of the (PCKI....) structure or when vertical side partitions are installed.Not compatible with IP40 PBWP....
PUCM... The front upright is always required.
The rear upright is used for fixing the crosspieces that support the busbars and for fixing the vertical side partitions of the structure.
For In >4000A the rear upright for ICC is PUCS....

[9] The intermediate uprights (PUKI....) are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, XT5, XT6, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in not segregated structures. Order 2 uprights for the kits. To be ordered (2 pieces) for segregation structure except for 2b with kits that don't required PUKI.... To be ordered in case of vertical/horizontal busbar system.

Structure
Guide to the order codes

The new code is formed by 4 letters standing for English terms and 4 numbers, without spaces in between.



RANGE IDENTIFIER
The first letter of all the codes of the new main distribution switchboard "P" stands for "power". Thus the new product is clearly identified by the same initial used for all new components of ABB's System pro E power

TYPE OF PRODUCT AND CHARACTERISTICS
The second letter in the code indicates the type of product or component of the switchboard. The third and fourth letters describe the characteristics or material in more detail.

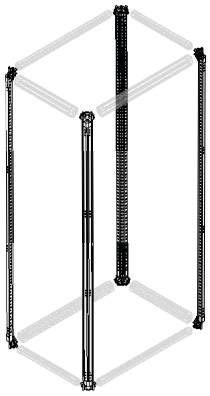
U = Upright
C = Crosspieces
P = Plinth, Panel, Profile
T = Top
B = Bottom
D = Door
K = Kit

P = Upright, Profile
C = Cable compartment
F = Frame, Flanges, Finishing
A = Plinth angle pieces
I = Intermediate
B = Bottom
W = Without plinth
E = External cover
D = Double tab insert

M = Metal/Galvanized sheel metal
S = Stainless steel
B = Blind
O = Open
P = Plinth
A = Vented
G = Glass
H = Horizontal
V = Vertical
T = Top

MEASUREMENTS
The last 4 numbers usually refer to one of the component's measurements or to several dimensions concerning the code. In certain cases, if the last number is 6, it refers to the IP65 protection class.

Structure
Order codes - Frame



Uprights – Galvanized sheet metal
Upright formed by a closed profile made of galvanized sheet metal. The uprights include 8 already assembled 3-way joints, 8 already assembled axial screws and 16 loose axial screws. For applications with In ≤4000A.

Description	Dimensions H (mm)	Type	Order code	Pkg/ No. pcs
No.4 galvanized sheet metal uprights	1800	PUPM1800	1STQ007033A0000	1/4
No.4 galvanized sheet metal uprights	2000	PUPM2000	1STQ007034A0000	1/4

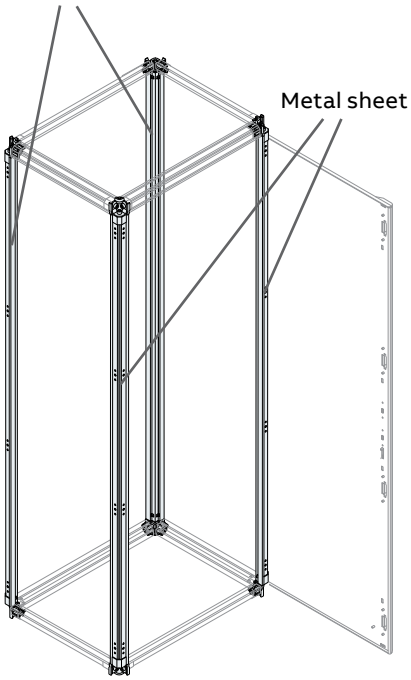
Uprights for enclosure In>4000A
The uprights include 8 already assembled 3-way joints, 8 already assembled axial screws and 16 loose axial screws. For applications with In >4000A.

Description	Dimensions H (mm)	Type	Order code	Pkg/ No. pcs
No.2 stainless steel uprights and no.2 galvanized sheet metal uprights	1800	PUPM1802	1STQ002031B0000	1/4
No.2 stainless steel uprights and no.2 galvanized sheet metal uprights	2000	PUPM2002	1STQ002032B0000	1/4

Examples of use

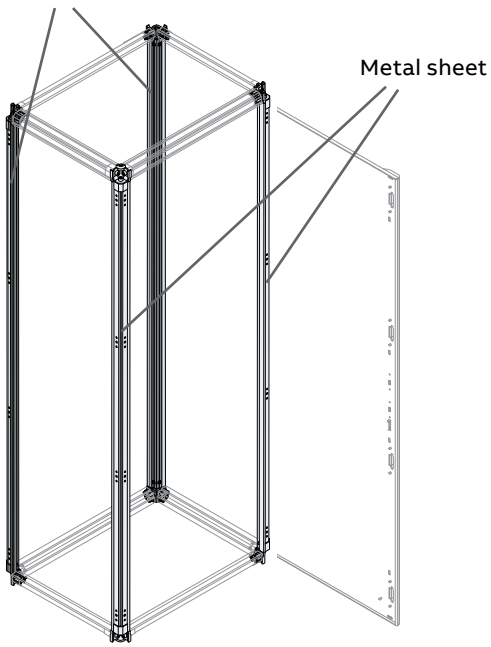
Galvanized sheet metal In ≤4000A

PUPM1800
PUPM2000
Metal sheet



Uprights for enclosure In>4000A

PUPM1802
PUPM2002
Stainless steel
(AISI304)



• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

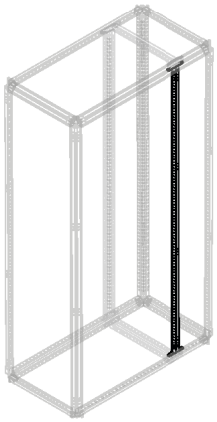
Order codes - Frame



Structure crosspieces

Depth and width crosspieces for structures.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Width crosspieces galvanized sheet metal					
No.4 crosspieces in galvanized sheet metal	300		PCFM0300	1STQ007037A0000	1/4
No.4 crosspieces in galvanized sheet metal	400		PCFM0400	1STQ007038A0000	1/4
No.4 crosspieces in galvanized sheet metal	600		PCFM0600	1STQ007040A0000	1/4
No.4 crosspieces in galvanized sheet metal	800		PCFM0800	1STQ007042A0000	1/4
No.4 crosspieces in galvanized sheet metal	1000		PCFM1000	1STQ007043A0000	1/4
No.4 crosspieces in galvanized sheet metal	1250		PCFM1250	1STQ007044A0000	1/4
Depth crosspieces galvanized sheet metal					
No.4 crosspieces in galvanized sheet metal		200	PCFM0200	1STQ007045A0000	1/4
No.4 crosspieces in galvanized sheet metal		300	PCFM0300	1STQ007037A0000	1/4
No.4 crosspieces in galvanized sheet metal		500	PCFM0500	1STQ007039A0000	1/4
No.4 crosspieces in galvanized sheet metal		700	PCFM0700	1STQ007046A0000	1/4
No.4 crosspieces in galvanized sheet metal		900	PCFM0900	1STQ007047A0000	1/4
No.4 crosspieces in galvanized sheet metal		1250	PCFM1250	1STQ007044A0000	1/4
Width crosspieces stainless steel					
No.4 width crosspieces in stainless steel	300		PCFS0300	1STQ007206A0000	1/4
No.4 width crosspieces in stainless steel	400		PCFS0400	1STQ007062A0000	1/4
No.4 width crosspieces in stainless steel	600		PCFS0600	1STQ007063A0000	1/4
No.4 width crosspieces in stainless steel	800		PCFS0800	1STQ007064A0000	1/4
No.4 width crosspieces in stainless steel	1000		PCFS1000	1STQ007065A0000	1/4
No.4 width crosspieces in stainless steel	1250		PCFS1250	1STQ007066A0000	1/4
Depth crosspieces stainless steel					
Depth crosspieces stainless steel		200	PCFS0200	1STQ009174A0000	1/4
Depth crosspieces stainless steel		700	PCFS0700	1STQ007067A0000	1/4
Depth crosspieces stainless steel		900	PCFS0900	1STQ007068A0000	1/4
No.4 width crosspieces in stainless steel		1250	PCFS1250	1STQ007066A0000	1/4



Uprights for internal cable compartment – Galvanized sheet metal

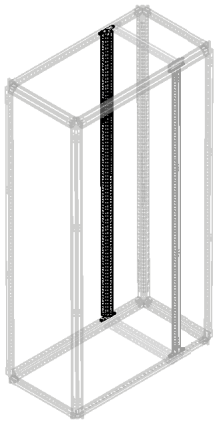
Upright formed by a closed profile in galvanized sheet metal for internal cable compartment with fixing brackets.

Description	Dimensions H (mm)	Type	Order code	Pkg/ No. pcs
No.1 galv. sheet metal upright for cable compartment	1800	PUCM1800	1STQ007742A0000	1/1
No.1 galv. sheet metal upright for cable compartment	2000	PUCM2000	1STQ007743A0000	1/1

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

Order codes - Frame



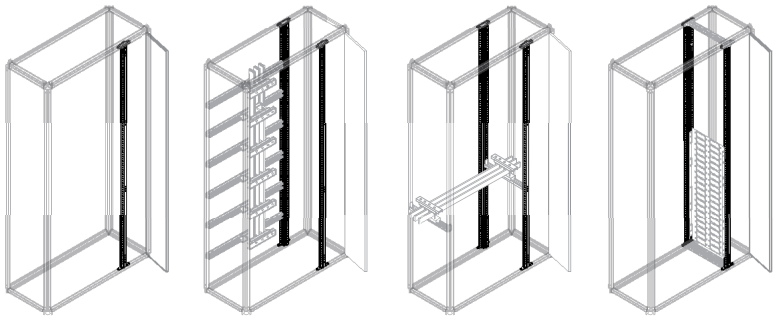
Uprights for internal cable compartment – Stainless steel

Upright formed by a closed profile in AISI 304 stainless steel for internal cable compartment with fixing brackets. For applications with In >4000A, the rear internal cable compartment uprights has to be in stainless steel.

Description	Dimensions H (mm)	Type	Order code	Pkg/ No. pcs
No.1 stainless steel upright for cable compartment	1800	PUCS1800	1STQ007749B0000	1/1
No.1 stainless steel upright for cable compartment	2000	PUCS2000	1STQ007750B0000	1/1

The front upright is always required. The rear upright is used for fixing the crosspieces that support the busbars and for fixing the vertical side partitions of the structure. In case of In>4000A the rear internal cable compartment upright has to be in stainless steel.

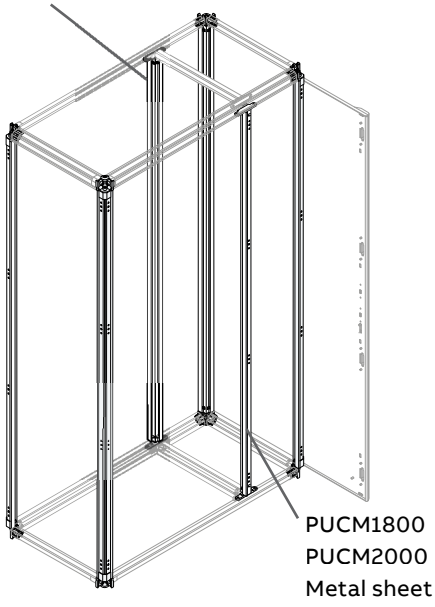
Applications examples



Examples of use

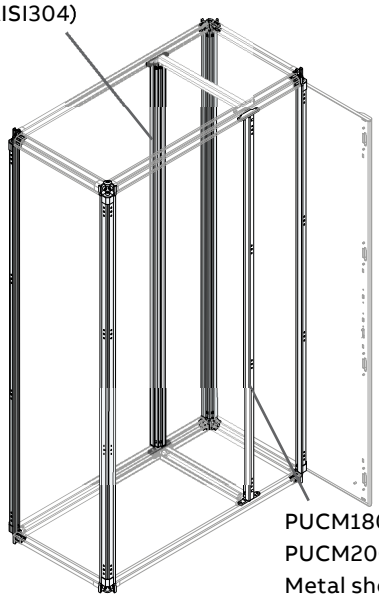
Uprights in galvanized sheet metal for enclosure In ≤ 4000A

PUCM1800
PUCM2000
Metal sheet

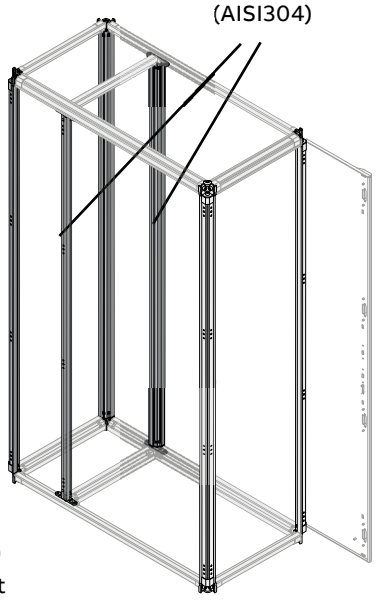


Uprights for enclosure In>4000A

PUCS1800
PUCS2000
Stainless steel
(AISI304)



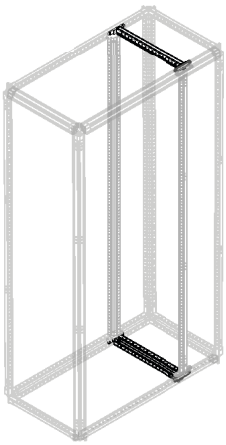
PUCS1800
PUCS2000
Stainless steel
(AISI304)



• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

Order codes - Frame



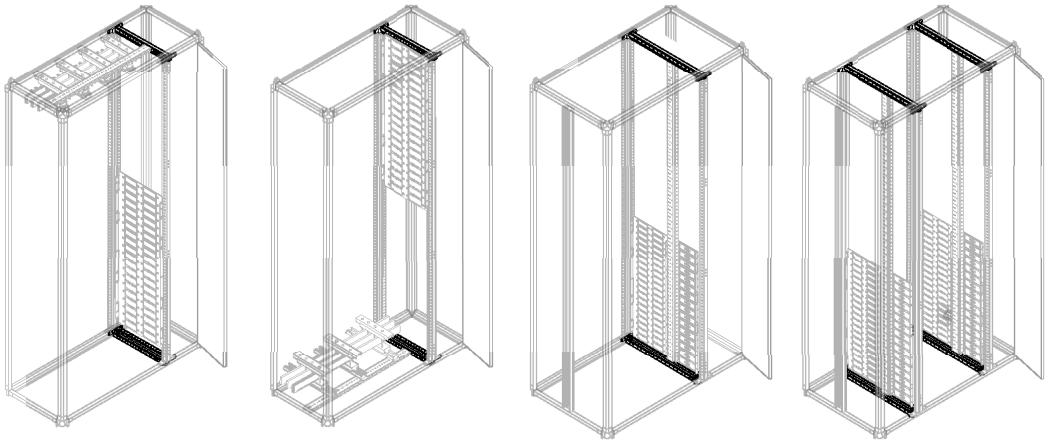
Crosspieces for internal cable compartment – Galvanized sheet metal

Upright formed by a closed profile in galvanized sheet metal for internal cable compartment with fixing brackets.

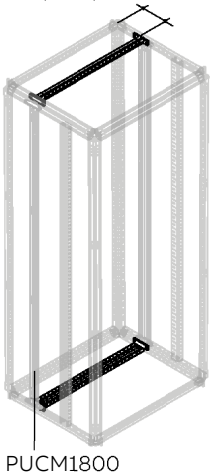
Description	Dimensions D (mm)	Type	Order code	Pkg/ No. pcs
No.2 galvanized sheet cable cont. crosspieces	200	PCCM0200	1STQ007744A0000	1/2
No.2 galvanized sheet cable cont. crosspieces	300	PCCM0300	1STQ007745A0000	1/2
No.2 galvanized sheet cable cont. crosspieces	500	PCCM0500	1STQ007746A0000	1/2
No.2 galvanized sheet cable cont. crosspieces	700	PCCM0700	1STQ007747A0000	1/2
No.2 galvanized sheet cable cont. crosspieces	900	PCCM0900	1STQ007748A0000	1/2
No.2 stainless steel cable cont. crosspieces	700	PCCS0700	1STQ007751A0000	1/2
No.2 stainless steel cable cont. crosspieces	900	PCCS0900	1STQ007752A0000	1/2
No.2 stainless steel cable cont. crosspieces	1250	PCCM1250	1STQ007508B0000	1/2

To be ordered when there is an intermediate upright for mounting kit PUKI.... or an intermediate crosspiece for installing busbars horizontally under the top or on the bottom of the PCKI.... structure or when vertical side partitions are installed. Not compatible with IP40 PBWP....

Applications examples



200/350/400mm



PUCM1800
PUCM2000
PUCS1800
PUCS2000

Crosspieces for structures – Galvanized sheet metal

Allows the creation of a cable compartment with D=200mm or D=350mm and D=400mm at the back of the stuctures. To be assembled with 2 intermediate uprights for internal cable container PUCM.... o PUCS....

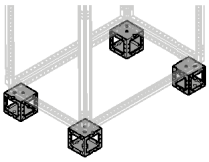
Description	Dimensions W (mm)	Type	Order code	Pkg/ No. pcs
No.2 galvanized sheet crosspieces for structures	300	PCCM0300	1STQ007745A0000	1/2
No.2 galvanized sheet crosspieces for structures	400	PCCM0400	1STQ001337B0000	1/2
No.2 galvanized sheet crosspieces for structures	600	PCCM0600	1STQ001337B0000	1/2
No.2 galvanized sheet crosspieces for structures	800	PCCM0800	1STQ001338B0000	1/2
No.2 galvanized sheet crosspieces for structures	1000	PCCM1000	1STQ001339B0000	1/2

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

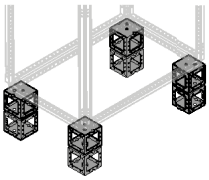
Structure

Order codes - Frame

PPAM0100



PPAM0200

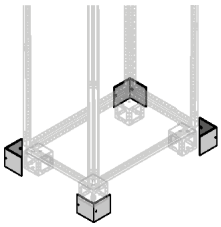


Universal angle pieces for plinths in galvanized sheet metal

Not pre-assembled to the structure. New angle piece with high mechanical strength. Can be fixed from the outside and from the inside of the structure even at a later date. Equipped with anti-rotation system and bottom that can be transported with a transpallet.

Description	Dimensions H (mm)	Type	Order code	Pkg/ No. pcs
No.4 plinth angle pieces	100	PPAM0100	1STQ007048A0000	1/4
No.8 plinth angle pieces H=100mm pre-assembled*	200	PPAM0200	1STQ007207A0000	1/8

*Order no. 2 pieces of H=100mm covering flange kits to complete the H=200mm plinth.

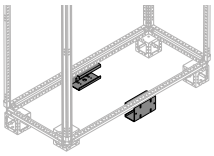


“L” covers for plinth angle-pieces

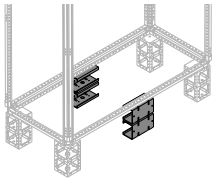
Used for covering the sides of the plinth when the flanges are not used.

Description	Dimensions H (mm)	Type	Order code	Pkg/ No. pcs
No.4 angle-piece covers	100	PCPA0004	1STQ008109A0000	1/4

PPIM0100



PPIM0200

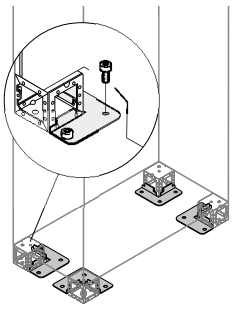


Intermediate plinth

Intermediate plinth only for structures W=1250mm

Description	Dimensions H (mm)	Type	Order code	Pkg/ No. pcs
No.2 intermediate plinths	100	PPIM0100*	1STQ007208A0000	1/2
No.4 intermediate plinths H=100mm pre-assembled*	200	PPIM0200*	1STQ007209A0000	1/4

* Order no. 2 pieces of H=100mm covering flange kits to complete the H=200mm intermediate plinth..



Brackets for fixing to the floor

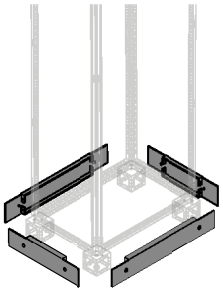
The kit allows the floor or on container fixing of the structure by means of M12 screws.

Description	Type	Order code	Pkg/ No. pcs
No.4 floor fixing brackets	ZN1041	1STQ006833A0000	1/4

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

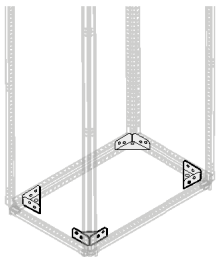
Order codes - Frame



Plinth flanges

Side and front/rear plinth flanges H=100mm RAL 7012.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Front/rear plinth flanges					
No.2 plinth flanges	300		PPFM1030	1STQ007050A0000	1/2
No.2 plinth flanges	400		PPFM1040	1STQ007051A0000	1/2
No.2 plinth flanges	600		PPFM1060	1STQ007053A0000	1/2
No.2 plinth flanges	800		PPFM1080	1STQ007055A0000	1/2
No.2 plinth flanges	1000		PPFM1010	1STQ007056A0000	1/2
No.4 plinth flanges	1250		PPFM1250	1STQ007057A0000	1/4
Side plinth flanges					
No.2 plinth flanges		200	PPFM1020	1STQ007058A0000	1/2
No.2 plinth flanges		300	PPFM1030	1STQ007050A0000	1/2
No.2 plinth flanges		500	PPFM1050	1STQ007052A0000	1/2
No.2 plinth flanges		700	PPFM1070	1STQ007059A0000	1/2
No.2 plinth flanges		900	PPFM1090	1STQ007060A0000	1/2



Brackets for bottoms without plinth

The kit allows the mounting of the angle pieces PPAM.... from the inside of the structure or the application of enclosures without plinth when combined with the proper internal bottom PBWP.... IP40 or the other bottom codes available that have to be cut according to the drilling indication in chapter 8.

Description	Type	Order code	Pkg/ No. pcs
No. 4 brackets for bottoms without plinth	PBRB0004	1STQ008127A0000	1/4

PRAS0012



PPUN0100

Reinforced plinth / Reinforcing brackets

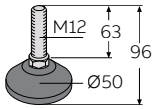
Description	Type	Order code	Pkg/ No. pcs
Antiseismic plinth H=100mm joining structure	PPUN0100	1STQ002089B0000	1/1
No.12 antiseismic reinforcement kits	PRAS0012*	1STQ002088B0000	1/12

* Order one PRAS0012 kit for each column weighing ≥ 1000 kg.

Always enclose a drawing of the front view of the bank of switchboards indicating the positions of the lifting tubes and the type of base of each column (whether the column is with baseplate or without baseplate).
Unit of measurement when ordering: METER .
Maximum length 4.2m (the length refers to the external measurement of the column/bank).
For details, see chapter 7 - Handling.

Structure

Order codes - External covers

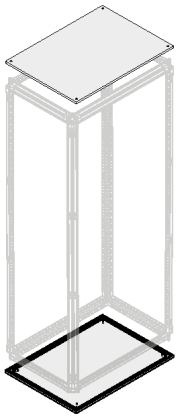


EV1004

Levelling feet

The levelling feet can be mounted directly under the three-way joint or under the angle of the plinth.

Description	Type	Order code	Pkg/ No. pcs
No.4 M12 levelling feet (500kg each)	EV1004		1/4



Blind Top/Bottom IP65 – Pickled sheet steel

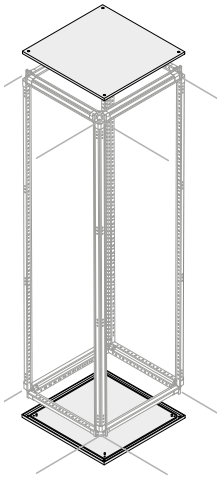
Pickled sheet steel with IP65 gasket. The article comprises one single component that can be used as either a top or bottom. In order to purchase both the top and the bottom, please order two quantities of the same code or two different top/bottom codes according to the desired design of the structure. The code includes four M12x20 screws.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Blind Top/Bottom IP65	300	200	PTBB3026	1STQ007074A0000	1/1
Blind Top/Bottom IP65	300	300	PTBB3036	1STQ007075A0000	1/1
Blind Top/Bottom IP65	300	500	PTBB3056	1STQ007076A0000	1/1
Blind Top/Bottom IP65	300	700	PTBB3076	1STQ007077A0000	1/1
Blind Top/Bottom IP65	300	900	PTBB3096	1STQ007078A0000	1/1
Blind Top/Bottom IP65	400	200	PTBB4026	1STQ007079A0000	1/1
Blind Top/Bottom IP65	400	300	PTBB4036	1STQ007080A0000	1/1
Blind Top/Bottom IP65	400	500	PTBB4056	1STQ007081A0000	1/1
Blind Top/Bottom IP65	400	700	PTBB4076	1STQ007082A0000	1/1
Blind Top/Bottom IP65	400	900	PTBB4096	1STQ007083A0000	1/1
Blind Top/Bottom IP65	600	200	PTBB6026	1STQ007086A0000	1/1
Blind Top/Bottom IP65	600	300	PTBB6036	1STQ007087A0000	1/1
Blind Top/Bottom IP65	600	500	PTBB6056	1STQ007088A0000	1/1
Blind Top/Bottom IP65	600	700	PTBB6076	1STQ007089A0000	1/1
Blind Top/Bottom IP65	600	900	PTBB6096	1STQ007090A0000	1/1
Blind Top/Bottom IP65	800	200	PTBB8026	1STQ007094A0000	1/1
Blind Top/Bottom IP65	800	300	PTBB8036	1STQ007095A0000	1/1
Blind Top/Bottom IP65	800	500	PTBB8056	1STQ007096A0000	1/1
Blind Top/Bottom IP65	800	700	PTBB8076	1STQ007097A0000	1/1
Blind Top/Bottom IP65	800	900	PTBB8096	1STQ007098A0000	1/1
Blind Top/Bottom IP65	1000	200	PTBB1026	1STQ009178A0000	1/1
Blind Top/Bottom IP65	1000	300	PTBB1036	1STQ007099A0000	1/1
Blind Top/Bottom IP65	1000	500	PTBB1056	1STQ007100A0000	1/1
Blind Top/Bottom IP65	1000	700	PTBB1076	1STQ007101A0000	1/1
Blind Top/Bottom IP65	1000	900	PTBB1096	1STQ007102A0000	1/1

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

Order codes - External covers

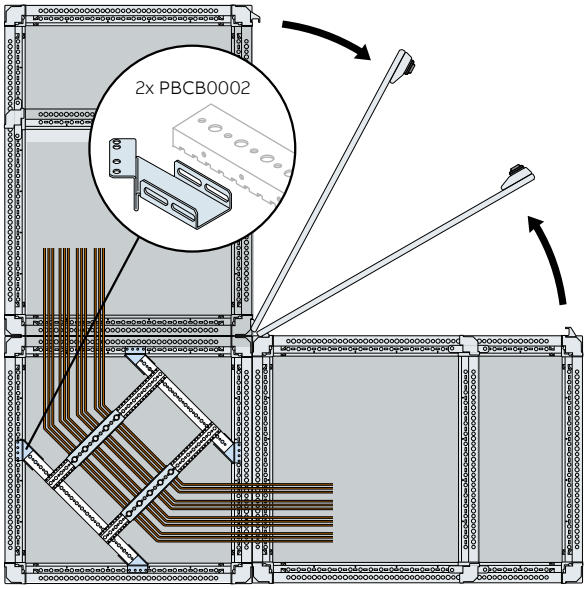


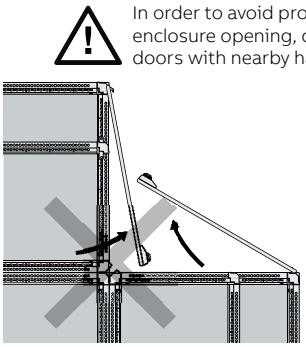
Top/bottom IP65 for corner structures

Pickled sheet steel with IP65 gasket. The article comprises one single component that can be used as either a top or bottom. In order to purchase both the top and the bottom, please order two quantities of the same code or two different top/bottom codes according to the desired design of the structure. It requires the use of the relating kit PSCS0579 in case of joining corner structures.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Blind Top/Bottom IP65	300	300	PTBB3036*	1STQ007074A0000	
Blind Top/Bottom IP65	500	500	PTBB5050	1STQ009179A0000	1/1
Blind Top/Bottom IP65	700	700	PTBB7070	1STQ009180A0000	1/1
Blind Top/Bottom IP65	900	900	PTBB9090	1STQ009181A0000	1/1

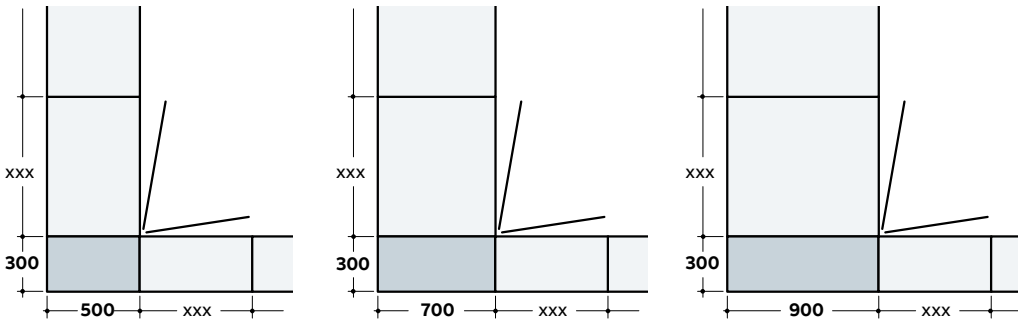
* IPX1 top sealing kit not available.
In order to complete the corner structure, use all the standard codes except from n.1 Kit for joining corner structures PSCS0579 (pag.2/39) and, if it is the case, the Top sealing kit IP31/IP4 (pag.2-22).
In case of horizontal busbars, the passage is permitted only on the back or under the top by using no.2 brackets PBCB0002 and the universal crosspieces PCRM2013 to be cut accordingly.





In order to avoid problems with the enclosure opening, do not mount the doors with nearby handles

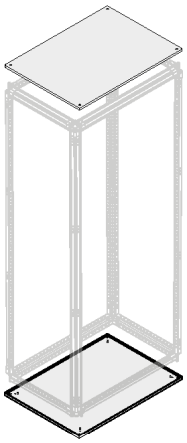
Additional applications
Using structures 300 mm in width with the relative top/bottom and external cover components, corner configurations like those in the examples below can be created with the following characteristics:
IPX1 top sealing profiles are n ot available;
only PBHB1125 50 mm width busbar insulators can be installed;
plate PBCB0002 cannot be installed for corner busbar systems.
Kit for joining corner structures PSCS0579 is required.



• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

Order codes - External covers



Blind Top/Bottom IP30, IP40 – without gasket

Pickled sheet steel without gasket. In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit, page 2-23.

The article comprises one single component that can be used as either a top or bottom. In order to purchase both the top and the bottom, please order two quantities of the same code or two different top/bottom codes according to the desired design of the structure. The code includes four M12x20 screws.

Description	Dimensions (mm) W	D	Type	Type	Pkg/ No. pcs
Blind Top/Bottom IP30/IP40	300	200	PTBB3020	1STQ007107A0000	1/1
Blind Top/Bottom IP30/IP40	300	300	PTBB3030	1STQ007108A0000	1/1
Blind Top/Bottom IP30/IP40	300	500	PTBB3050	1STQ007109A0000	1/1
Blind Top/Bottom IP30/IP40	300	700	PTBB3070	1STQ007110A0000	1/1
Blind Top/Bottom IP30/IP40	300	900	PTBB3090	1STQ007111A0000	1/1
Blind Top/Bottom IP30/IP40	300	1250	PTBB3012	1STQ005579B0000	1/1
Blind Top/Bottom IP30/IP40	400	200	PTBB4020	1STQ007112A0000	1/1
Blind Top/Bottom IP30/IP40	400	300	PTBB4030	1STQ007113A0000	1/1
Blind Top/Bottom IP30/IP40	400	500	PTBB4050	1STQ007114A0000	1/1
Blind Top/Bottom IP30/IP40	400	700	PTBB4070	1STQ007115A0000	1/1
Blind Top/Bottom IP30/IP40	400	900	PTBB4090	1STQ007116A0000	1/1
Blind Top/Bottom IP30/IP40	400	1250	PTBB4012	1STQ005580B0000	1/1
Blind Top/Bottom IP30/IP40	600	200	PTBB6020	1STQ007117A0000	1/1
Blind Top/Bottom IP30/IP40	600	300	PTBB6030	1STQ007118A0000	1/1
Blind Top/Bottom IP30/IP40	600	500	PTBB6050	1STQ007119A0000	1/1
Blind Top/Bottom IP30/IP40	600	700	PTBB6070	1STQ007120A0000	1/1
Blind Top/Bottom IP30/IP40	600	900	PTBB6090	1STQ007121A0000	1/1
Blind Top/Bottom IP30/IP40	600	1250	PTBB6012	1STQ005581B0000	1/1
Blind Top/Bottom IP30/IP40	800	200	PTBB8020	1STQ007122A0000	1/1
Blind Top/Bottom IP30/IP40	800	300	PTBB8030	1STQ007123A0000	1/1
Blind Top/Bottom IP30/IP40	800	500	PTBB8050	1STQ007124A0000	1/1
Blind Top/Bottom IP30/IP40	800	700	PTBB8070	1STQ007125A0000	1/1
Blind Top/Bottom IP30/IP40	800	900	PTBB8090	1STQ007126A0000	1/1
Blind Top/Bottom IP30/IP40	800	1250	PTBB8012	1STQ005582B0000	1/1
Blind Top/Bottom IP30/IP40	1000	200	PTBB1020	1STQ009152A0000	1/1
Blind Top/Bottom IP30/IP40	1000	300	PTBB1030	1STQ007127A0000	1/1
Blind Top/Bottom IP30/IP40	1000	500	PTBB1050	1STQ007128A0000	1/1
Blind Top/Bottom IP30/IP40	1000	700	PTBB1070	1STQ007129A0000	1/1
Blind Top/Bottom IP30/IP40	1000	900	PTBB1090	1STQ007130A0000	1/1
Blind Top/Bottom IP30/IP40	1000	1250	PTBB1012	1STQ005583B0000	1/1
Blind Top/Bottom IP30/IP40	1250	200	PTBB1220	1STQ009153A0000	1/1
Blind Top/Bottom IP30/IP40	1250	300	PTBB1230	1STQ001315B0000	1/1
Blind Top/Bottom IP30/IP40	1250	900	PTBB1290	1STQ007131A0000	1/1
Blind Top/Bottom IP30/IP40	1250	1250	PTBB1212	1STQ005584B0000	1/1

Realization of the different IP protection class

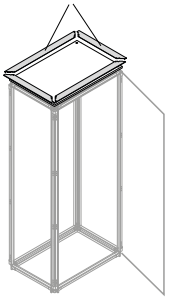
IP31	IP41
IP30/IP40 blind top/bottom	**IP30/IP40 blind top/bottom**
IP30 side/rear vented panels	IP40 side/rear blind panels
IP30 vertical finishing profiles or blind door or glass door without gasket	Blind door or glass door without gasket
IPX1 top sealing kit PKST.... /PKDT....	IPX1 top sealing kit PKST.... / PKDT....

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

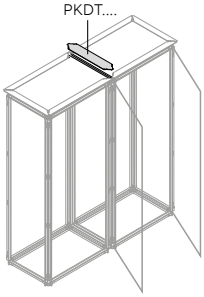
Structure

Order codes - External covers

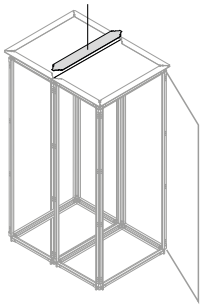
PKST....



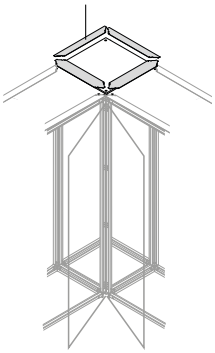
PKDT....



PKDT....



PKAT....



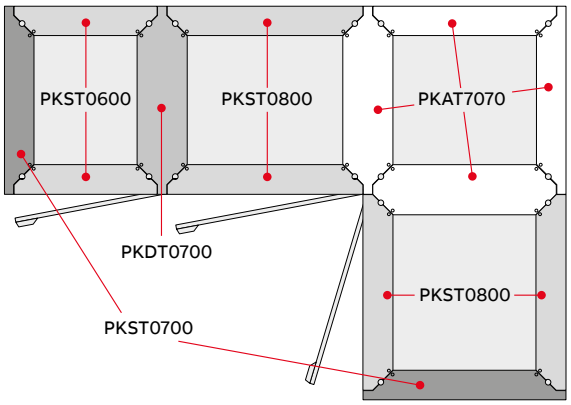
Top sealing kit IPX1

Profiles for IP31/IP41 for top.

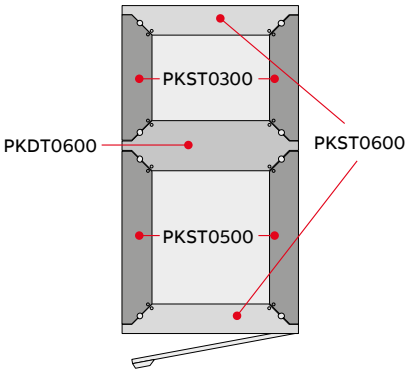
Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
N.2 roof profiles for single column		200	PKST0200	1STQ001905B0000	1/2
N.2 roof profiles for single column		300	PKST0301	1STQ001935B0000	1/2
N.2 roof profiles for single column		500	PKST0501	1STQ001936B0000	1/2
N.2 roof profiles for single column		700	PKST0700	1STQ001911B0000	1/2
N.2 roof profiles for single column		900	PKST0900	1STQ001914B0000	1/2
N.2 roof profiles for single column		1250	PKST1250	1STQ001906B0000	1/2
N.2 roof profiles for single column	300		PKST0300	1STQ001907B0000	1/2
N.2 roof profiles for single column	400		PKST0400	1STQ001908B0000	1/2
N.2 roof profiles for single column	600		PKST0600	1STQ001910B0000	1/2
N.2 roof profiles for single column	800		PKST0800	1STQ001913B0000	1/2
N.2 roof profiles for single column	1000		PKST1000	1STQ001915B0000	1/2
N.2 roof profiles for single column	1250		PKST1250	1STQ001916B0000	1/2
N.1 roof profile for side by side column		200	PKDT0200	1STQ001917B0000	1/1
N.1 roof profile for side by side column		300	PKDT0301	1STQ001937B0000	1/1
N.1 roof profile for side by side column		500	PKDT0501	1STQ001938B0000	1/1
N.1 roof profile for side by side column		700	PKDT0700	1STQ001923B0000	1/1
N.1 roof profile for side by side column		900	PKDT0900	1STQ001926B0000	1/1
N.1 roof profile for side by side column		1250	PKDT1250	1STQ001938B0000	1/1
N.1 roof profile for back to back column	300		PKDT0300	1STQ001919B0000	1/1
N.1 roof profile for back to back column	400		PKDT0400	1STQ001920B0000	1/1
N.1 roof profile for back to back column	600		PKDT0600	1STQ001922B0000	1/1
N.1 roof profile for back to back column	800		PKDT0800	1STQ001925B0000	1/1
N.1 roof profile for back to back column	1000		PKDT1000	1STQ001927B0000	1/1
N.1 roof profile for back to back column	1250		PKDT1250	1STQ001928B0000	1/1
Roof profiles for corner structure	500	500	PKAT5050	1STQ001939B0000	1/4
Roof profiles for corner structure	700	700	PKAT7070	1STQ001941B0000	1/4
Roof profiles for corner structure	900	900	PKAT9090	1STQ001943B0000	1/4

Examples of use

Column with corner structure D = 700mm



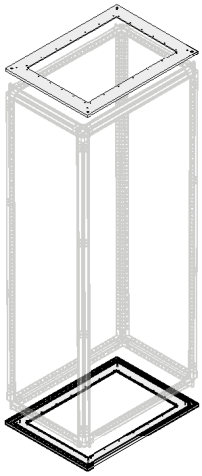
Rear side by side structure



• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

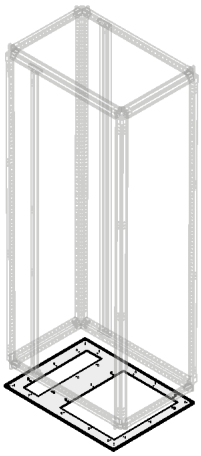
Order codes - External covers



Open Top/Bottom

Pickled sheet steel with holes. The code comprises one single component that can be used as either a top or bottom. In order to purchase both the top and the bottom, please order two quantities of the same code or two different top/bottom codes according to the desired design of the structure.
In order to reach IP65 protection degree, use the dedicated fixed cable incoming flanges PFCF….; in order to reach IP40 protection degree, use the dedicated swinging cable incoming flanges PFCS…. at page 2/26. The use of the single open top/bottom without flanges does not guarantee any degree of protection IP. The open top/ bottom, associated with sliding flanges, is incompatible with crosspieces assembled inside the cable compartment.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Open Top/Bottom	300	200	PTBO3020	1STQ007135A0000	1/1
Open Top/Bottom	300	300	PTBO3030	1STQ007136A0000	1/1
Open Top/Bottom	300	500	PTBO3050	1STQ007137A0000	1/1
Open Top/Bottom	300	700	PTBO3070	1STQ007138A0000	1/1
Open Top/Bottom	300	900	PTBO3090	1STQ007139A0000	1/1
Open Top/Bottom	400	200	PTBO4020	1STQ007140A0000	1/1
Open Top/Bottom	400	300	PTBO4030	1STQ007141A0000	1/1
Open Top/Bottom	400	500	PTBO4050	1STQ007142A0000	1/1
Open Top/Bottom	400	700	PTBO4070	1STQ007143A0000	1/1
Open Top/Bottom	400	900	PTBO4090	1STQ007144A0000	1/1
Open Top/Bottom	600	200	PTBO6020	1STQ007147A0000	1/1
Open Top/Bottom	600	300	PTBO6030	1STQ007148A0000	1/1
Open Top/Bottom	600	500	PTBO6050	1STQ007149A0000	1/1
Open Top/Bottom	600	700	PTBO6070	1STQ007150A0000	1/1
Open Top/Bottom	600	900	PTBO6090	1STQ007151A0000	1/1
Open Top/Bottom	800	200	PTBO8020	1STQ007155A0000	1/1
Open Top/Bottom	800	300	PTBO8030	1STQ007156A0000	1/1
Open Top/Bottom	800	500	PTBO8050	1STQ007157A0000	1/1
Open Top/Bottom	800	700	PTBO8070	1STQ007158A0000	1/1
Open Top/Bottom	800	900	PTBO8090	1STQ007159A0000	1/1
Open Top/Bottom	1000	300	PTBO1030	1STQ007160A0000	1/1
Open Top/Bottom	1000	500	PTBO1050	1STQ007161A0000	1/1
Open Top/Bottom	1000	700	PTBO1070	1STQ007162A0000	1/1
Open Top/Bottom	1000	900	PTBO1090	1STQ007163A0000	1/1
Open Top/Bottom	1250	900	PTBO1290	1STQ007167A0000	1/1



Open top/bottom IP30/40 for D=1250mm
(structure D = 900mm + internal rear cable compartment D = 350mm)

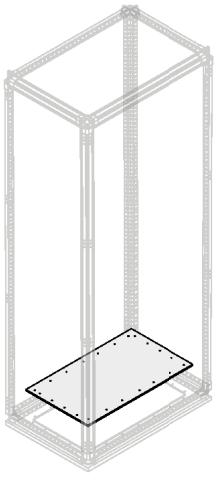
Pickled sheet steel with holes. The code comprises one single component that can be used as either a top or bottom. In order to purchase both the top and the bottom, please order two quantities of the same code or two different top/bottom codes according to the desired design of the structure.

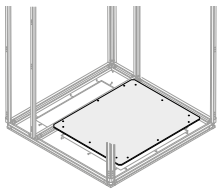
Descrizione	Dimensioni (mm) L	P	Tipo	Codice d'ordine	Conf./ N°pezzi
Open top/bottom IP30/40	300	1250	PTBO3012	1STQ005573B0000	1/1
Open top/bottom IP30/40	400	1250	PTBO4012	1STQ005574B0000	1/1
Open top/bottom IP30/40	600	1250	PTBO6012	1STQ005575B0000	1/1
Open top/bottom IP30/40	800	1250	PTBO8012	1STQ005576B0000	1/1
Open top/bottom IP30/40	1000	1250	PTBO1012	1STQ005577B0000	1/1
Open top/bottom IP30/40	1250	1250	PTBO1212	1STQ005578B0000	1/1

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

Order codes - External covers

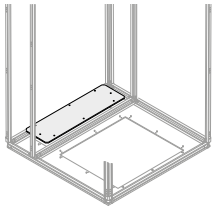




Fixed incoming cable flange

Fixed incoming cable flange in sheet metal to use in conjunction with the open bottom to guarantee IP65 protection class. With internal cable compartment crosspieces it is necessary to mount the fixed flange first.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Fixed incoming cable flange	300	200	PFCF3020	1STQ007658A0000	1/1
Fixed incoming cable flange	300	300	PFCF3030	1STQ007659A0000	1/1
Fixed incoming cable flange	300	500	PFCF3050	1STQ007660A0000	1/1
Fixed incoming cable flange	300	700	PFCF3070	1STQ007661A0000	1/1
Fixed incoming cable flange	300	900	PFCF3090	1STQ007662A0000	1/1
Fixed incoming cable flange	400	200	PFCF4020	1STQ007663A0000	1/1
Fixed incoming cable flange	400	300	PFCF4030	1STQ007664A0000	1/1
Fixed incoming cable flange	400	500	PFCF4050	1STQ007665A0000	1/1
Fixed incoming cable flange	400	700	PFCF4070	1STQ007666A0000	1/1
Fixed incoming cable flange	400	900	PFCF4090	1STQ007667A0000	1/1
Fixed incoming cable flange	600	200	PFCF6020	1STQ007670A0000	1/1
Fixed incoming cable flange	600	300	PFCF6030	1STQ007671A0000	1/1
Fixed incoming cable flange	600	500	PFCF6050	1STQ007672A0000	1/1
Fixed incoming cable flange	600	700	PFCF6070	1STQ007673A0000	1/1
Fixed incoming cable flange	600	900	PFCF6090	1STQ007674A0000	1/1
Fixed incoming cable flange	800	200	PFCF8020	1STQ007678A0000	1/1
Fixed incoming cable flange	800	300	PFCF8030	1STQ007679A0000	1/1
Fixed incoming cable flange	800	500	PFCF8050	1STQ007680A0000	1/1
Fixed incoming cable flange	800	700	PFCF8070	1STQ007681A0000	1/1
Fixed incoming cable flange	800	900	PFCF8090	1STQ007682A0000	1/1
Fixed incoming cable flange	1000	300	PFCF1030	1STQ007683A0000	1/1
Fixed incoming cable flange	1000	500	PFCF1050	1STQ007684A0000	1/1
Fixed incoming cable flange	1000	700	PFCF1070	1STQ007685A0000	1/1
Fixed incoming cable flange	1000	900	PFCF1090	1STQ007686A0000	1/1
Fixed incoming cable flange	1250	900	2xPFCF6090	1STQ007674A0000	1/1



Fixed incoming cable flange D=350mm for new depth 1250mm

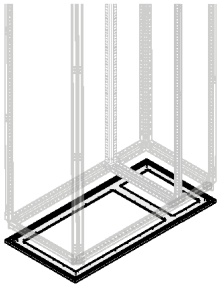
Fixed incoming cable flange in sheet metal to use in conjunction with the open bottom. With internal cable compartment crosspieces it is necessary to mount the fixed flange first.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Fixed incoming cable flange	300	350	PFCF3035	1STQ005605B0000	1/1
Fixed incoming cable flange	400	350	PFCF4035	1STQ005606B0000	1/1
Fixed incoming cable flange	600	350	PFCF6035	1STQ005607B0000	1/1
Fixed incoming cable flange	800	350	PFCF8035	1STQ005608B0000	1/1
Fixed incoming cable flange	1000/1250	350	PFCF1035	1STQ005609B0000	1/1

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

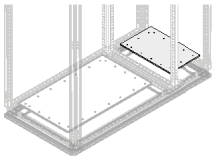
Order codes - External covers

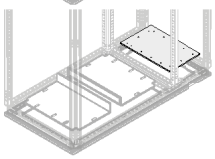


Open top/bottom IP65 – for internal cable container

Pickled sheet steel with IP65 gasket. In order to reach IP65 protection degree, use the dedicated fixed cable incoming flanges both for equipment compartment and internal cable compartment.
Use the fixed cable incoming flanges with the same dimension as the equipment compartment PFCF….

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Open top/bottom IP65					
Open top/bottom 600+200mm	800	300		1STQ002076B0000	1/1
Open top/bottom 600+200mm	800	500	PTBO8251	1STQ002077B0000	1/1
Open top/bottom 600+200mm	800	700	PTBO8271	1STQ002078B0000	1/1
Open top/bottom 600+200mm	800	900	PTBO8291	1STQ002079B0000	1/1
Open top/bottom 800+200mm	1000	300	PTBO1231	1STQ002080B0000	1/1
Open top/bottom 800+200mm	1000	500	PTBO1251	1STQ002081B0000	1/1
Open top/bottom 800+200mm	1000	700	PTBO1271	1STQ002082B0000	1/1
Open top/bottom 800+200mm	1000	900	PTBO1291	1STQ002083B0000	1/1
Open top/bottom 600+400mm	1000	300	PTBO1431	1STQ002084B0000	1/1
Open top/bottom 600+400mm	1000	500	PTBO1451	1STQ002085B0000	1/1
Open top/bottom 600+400mm	1000	700	PTBO1471	1STQ002086B0000	1/1
Open top/bottom 600+400mm	1000	900	PTBO1491	1STQ002087B0000	1/1
Blind fixed flange IP65 for internal cable container					
Blind fixed flange	200	300	PFCF2031	1STQ002048B0000	1/1
Blind fixed flange	200	500	PFCF2051	1STQ002049B0000	1/1
Blind fixed flange	200	700	PFCF2071	1STQ002050B0000	1/1
Blind fixed flange	200	900	PFCF2091	1STQ002051B0000	1/1
Blind fixed flange	400	300	PFCF4031	1STQ002052B0000	1/1
Blind fixed flange	400	500	PFCF4051	1STQ002053B0000	1/1
Blind fixed flange	400	700	PFCF4071	1STQ002054B0000	1/1
Blind fixed flange	400	900	PFCF4091	1STQ002055B0000	1/1



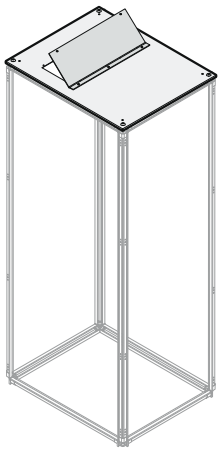


Example:
Base IP65 W 800mm D 500mm with 200mm W internal cable container.
Order:
n°1 PTBO8251 open bottom W 800mm (600 + 200) D 500mm
n°1 PFCF2051 blind fixed flange for internal cable contaioner W 200mm D 500mm
n°1 PFCF6050 blind fixed flange for equipment compartment W 600mm D 500mm

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

Order codes - External covers

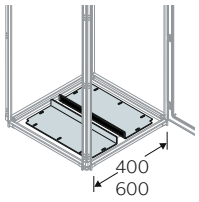


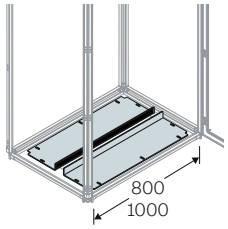
Blind top arc fault resistant

Top panel composed by 2 flaps that, in case of internal arc fault, they allows its outburst upward, protecting an operator that could be present in front of the switchboard. All the switchboard must be composed by IP65 panels but, due to flap presence, its final protection grade will be IP41.
Comply with the following characteristics to create an internal arc fault resistant switchboard:
- Max Icw 65 kA
- Segregation form 3b or 4b
- IP65 covers
- Maximum 480 V AC
- Dedicated top kit
- Choice of busbars according to IP65 table

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Blind top arc fault	300	700	PTAB3070	1STQ002035B0000	1/1
Blind top arc fault	300	900	PTAB3090	1STQ002036B0000	1/1
Blind top arc fault	400	700	PTAB4070	1STQ002037B0000	1/1
Blind top arc fault	400	900	PTAB4090	1STQ002038B0000	1/1
Blind top arc fault	600	700	PTAB6076	1STQ002023B0000	1/1
Blind top arc fault	600	900	PTAB6096	1STQ002024B0000	1/1
Blind top arc fault	800	700	PTAB8076	1STQ002025B0000	1/1
Blind top arc fault	800	900	PTAB8096	1STQ002026B0000	1/1
Blind top arc fault	1000	700	PTAB1076	1STQ002027B0000	1/1
Blind top arc fault	1000	900	PTAB1096	1STQ002028B0000	1/1

Not compatible with structures with rear internal cable compartment.
Install Lexan side cover PLLS.... page 5-33 at the bottom of the bank of switchboards before the side cover or if structure is crossed by omnibus busbars.





Sliding incoming cable flanges in sheet metal

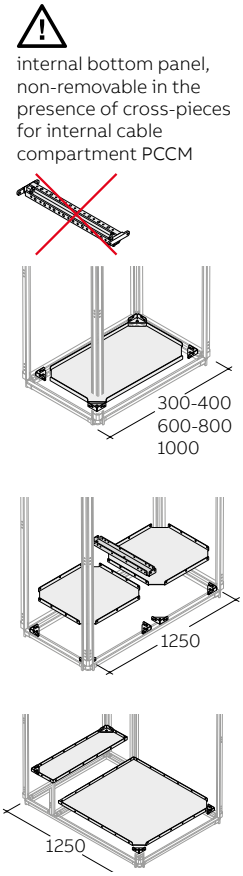
Sliding incoming cable flanges in sheet metal to use in conjunction with the open bottom to guarantee IP40 protection class. It is not possible to assemble the sliding flanges in structures with internal cable compartment.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
No.2 sliding flanges	400	500	PFCS4050	1STQ007699A0000	1/2
No.2 sliding flanges	400	700	PFCS4070	1STQ007700A0000	1/2
No.2 sliding flanges	400	900	PFCS4090	1STQ007701A0000	1/2
No.2 sliding flanges	600	500	PFCS6050	1STQ007705A0000	1/2
No.2 sliding flanges	600	700	PFCS6070	1STQ007706A0000	1/2
No.2 sliding flanges	600	900	PFCS6090	1STQ007707A0000	1/2
No.2 sliding flanges	800	500	PFCS8050	1STQ007712A0000	1/2
No.2 sliding flanges	800	700	PFCS8070	1STQ007713A0000	1/2
No.2 sliding flanges	800	900	PFCS8090	1STQ007714A0000	1/2
No.2 sliding flanges	1000	500	PFCS1050	1STQ007716A0000	1/2
No.2 sliding flanges	1000	700	PFCS1070	1STQ007717A0000	1/2
No.2 sliding flanges	1000	900	PFCS1090	1STQ007718A0000	1/2
No.2 sliding flanges	1250	900	2xPFCS6090	1STQ007707A0000	1/2

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

Order codes - External covers



internal bottom panel, non-removable in the presence of cross-pieces for internal cable compartment PCCM

Internal bottom IP40

Internal galvanized steel bottom with special brackets kit included (special brackets kit available also as spare part with the code PBRB0004). In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKST...and PKDT..., page 2/22.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Internal bottom	300	200	PBWP3020	1STQ007171A0000	1/1
Internal bottom	300	300	PBWP3030	1STQ007172A0000	1/1
Internal bottom	300	500	PBWP3050	1STQ007173A0000	1/1
Internal bottom	300	700	PBWP3070	1STQ007174A0000	1/1
Internal bottom	300	900	PBWP3090	1STQ007175A0000	1/1
Internal bottom	300	1250 (1)	PBWP3012	1STQ005590B0000	1/2
Internal bottom	400	200	PBWP4020	1STQ007176A0000	1/1
Internal bottom	400	300	PBWP4030	1STQ007177A0000	1/1
Internal bottom	400	500	PBWP4050	1STQ007178A0000	1/1
Internal bottom	400	700	PBWP4070	1STQ007179A0000	1/1
Internal bottom	400	900	PBWP4090	1STQ007180A0000	1/1
Internal bottom	400	1250 (1)	PBWP4012	1STQ005591B0000	1/2
Internal bottom	600	200	PBWP6020	1STQ007183A0000	1/1
Internal bottom	600	300	PBWP6030	1STQ007184A0000	1/1
Internal bottom	600	500	PBWP6050	1STQ007185A0000	1/1
Internal bottom	600	700	PBWP6070	1STQ007186A0000	1/1
Internal bottom	600	900	PBWP6090	1STQ007187A0000	1/1
Internal bottom	600	1250 (1)	PBWP6012	1STQ005592B0000	1/2
Internal bottom	800	200	PBWP8020	1STQ007191A0000	1/1
Internal bottom	800	300	PBWP8030	1STQ007192A0000	1/1
Internal bottom	800	500	PBWP8050	1STQ007193A0000	1/1
Internal bottom	800	700	PBWP8070	1STQ007194A0000	1/1
Internal bottom	800	900	PBWP8090	1STQ007195A0000	1/2
Internal bottom	800	1250 (1)	PBWP8012	1STQ005593B0000	1/1
Internal bottom	1000	300	PBWP1030	1STQ007196A0000	1/1
Internal bottom	1000	500	PBWP1050	1STQ007197A0000	1/1
Internal bottom	1000	700	PBWP1070	1STQ007198A0000	1/1
Internal bottom	1000	900	PBWP1090	1STQ007199A0000	1/1
Internal bottom	1000	1250 (1)	PBWP1012	1STQ005594B0000	1/2
Internal bottom	1250	900	PBWP1290	1STQ007203A0000	1/1
Internal bottom	1250	1250 (1)	PBWP1212	1STQ005595B0000	1/2

(1) No. 2 pieces

Structure

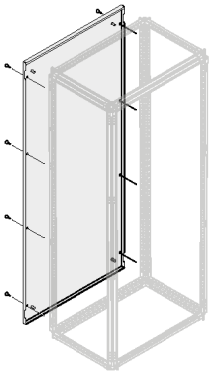
Order codes - External covers



External blind rear panel IP65

Pickled sheet steel with gasket and plugs IP65.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Blind rear panel IP65	1800	300	PPEB1836	1STQ007577A0000	1/1
Blind rear panel IP65	1800	400	PPEB1846	1STQ007578A0000	1/1
Blind rear panel IP65	1800	600	PPEB1866	1STQ007580A0000	1/1
Blind rear panel IP65	1800	800	PPEB1886	1STQ007583A0000	1/1
Blind rear panel IP65	1800	1000	PPEB1816	1STQ007585A0000	1/1
Blind rear panel IP65	2000	300	PPEB2036	1STQ007589A0000	1/1
Blind rear panel IP65	2000	400	PPEB2046	1STQ007590A0000	1/1
Blind rear panel IP65	2000	600	PPEB2066	1STQ007592A0000	1/1
Blind rear panel IP65	2000	800	PPEB2086	1STQ007594A0000	1/1
Blind rear panel IP65	2000	1000	PPEB2016	1STQ007596A0000	1/1



External blind rear panel IP40

Pickled sheet steel without gasket. In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKST...and PKDT..., page 2/22.

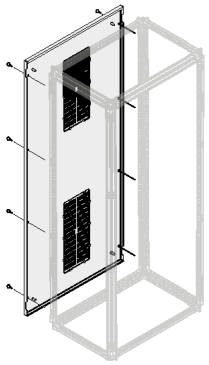
Description		Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Blind rear panel IP40		1800	300	PPEB1830	1STQ007608A0000	1/1
Blind rear panel IP40		1800	400	PPEB1840	1STQ007609A0000	1/1
Blind rear panel IP40		1800	600	PPEB1860	1STQ007611A0000	1/1
Blind rear panel IP40		1800	800	PPEB1880	1STQ007613A0000	1/1
Blind rear panel IP40		1800	1000	PPEB1810	1STQ007615A0000	1/1
Blind rear panel IP40	right	1800	1250	PPRB1820	1STQ007616A0000	1/1
	left	1800	1250	PPLB1820	1STQ007617A0000	1/1
Blind rear panel IP40		2000	300	PPEB2030	1STQ007619A0000	1/1
Blind rear panel IP40		2000	400	PPEB2040	1STQ007620A0000	1/1
Blind rear panel IP40		2000	600	PPEB2060	1STQ007622A0000	1/1
Blind rear panel IP40		2000	800	PPEB2080	1STQ007624A0000	1/1
Blind rear panel IP40		2000	1000	PPEB2010	1STQ007626A0000	1/1
Blind rear panel IP40	right	2000	1250	PPRB2020	1STQ007627A0000	1/1
	left	2000	1250	PPLB2020	1STQ007628A0000	1/1

Realization of the different IP protection class

IP41
IP30/IP40 blind top/bottom
IP40 rear blind panels
Blind door or glass door without gasket
IPX1 top sealing kit PKST.... / PKDT....

Structure

Order codes - External covers



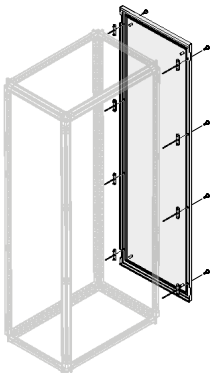
External vented rear panel IP30

In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKST...and PKDT..., page 2/22.

Description		No. Vented grates	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Vented rear panel IP30		2	1800	300	PPEA1830	1STQ007630A0000	1/1
Vented rear panel IP30		2	1800	400	PPEA1840	1STQ007631A0000	1/1
Vented rear panel IP30		2	1800	600	PPEA1860	1STQ007633A0000	1/1
Vented rear panel IP30		4	1800	800	PPEA1880	1STQ007636A0000	1/1
Vented rear panel IP30		6	1800	1000	PPEA1810	1STQ007638A0000	1/1
Vented rear panel IP30/31 with gasket	right	6	1800	1250	PPRA1820	1STQ007639A0000	1/1
	left	6	1800	1250	PPLA1820	1STQ007640A0000	1/1
Vented rear panel IP30		2	2000	300	PPEA2030	1STQ007641A0000	1/1
Vented rear panel IP30		2	2000	400	PPEA2040	1STQ007642A0000	1/1
Vented rear panel IP30		2	2000	600	PPEA2060	1STQ007644A0000	1/1
Vented rear panel IP30		4	2000	800	PPEA2080	1STQ007646A0000	1/1
Vented rear panel IP30		6	2000	1000	PPEA2010	1STQ007648A0000	1/1
Vented rear panel IP30 with gasket	right	4	2000	1250	PPRA2020	1STQ007649A0000	1/1
	left	4	2000	1250	PPLA2020	1STQ007650A0000	1/1

Realization of the different IP protection class

IP31
IP30/IP40 blind top/bottom
IP30 rear vented panels
IP30 vertical finishing profiles or blind door or glass door without gasket
IPX1 top sealing kit PKST.... /PKDT....



External blind side panel IP65

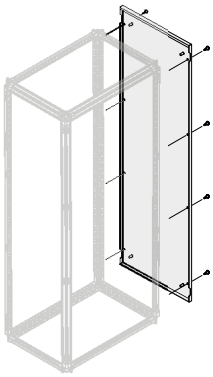
Pickled sheet steel with gasket and plugs IP65. The code refers to one single side panel.

Description	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Blind side panel IP65	1800	200	PPEB1826	1STQ007575A0000	1/1
Blind side panel IP65	1800	300	PPEB1836	1STQ007577A0000	1/1
Blind side panel IP65	1800	500	PPEB1856	1STQ007579A0000	1/1
Blind side panel IP65	1800	700	PPEB1876	1STQ007581A0000	1/1
Blind side panel IP65	1800	900	PPEB1896	1STQ007584A0000	1/1
Blind side panel IP65	2000	200	PPEB2026	1STQ007588A0000	1/1
Blind side panel IP65	2000	300	PPEB2036	1STQ007589A0000	1/1
Blind side panel IP65	2000	500	PPEB2056	1STQ008106A0000	1/1
Blind side panel IP65	2000	700	PPEB2076	1STQ008107A0000	1/1
Blind side panel IP65	2000	900	PPEB2096	1STQ008108A0000	1/1

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

Order codes - External covers



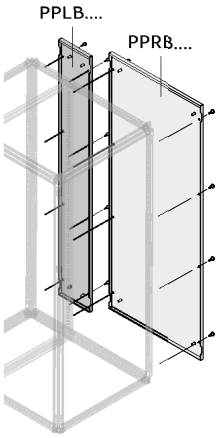
External blind side panel IP40

Pickled sheet steel with gasket. The code refers to one single side panel. In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKDT..., page 2/22.

Description	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Blind side panel IP30, IP40	1800	200	PPEB1820	1STQ007607A0000	1/1
Blind side panel IP30, IP40	1800	300	PPEB1830	1STQ007608A0000	1/1
Blind side panel IP30, IP40	1800	500	PPEB1850	1STQ007610A0000	1/1
Blind side panel IP30, IP40	1800	700	PPEB1870	1STQ007612A0000	1/1
Blind side panel IP30, IP40	1800	900	PPEB1890	1STQ007614A0000	1/1
Blind side panel IP30, IP40	2000	200	PPEB2020	1STQ007618A0000	1/1
Blind side panel IP30, IP40	2000	300	PPEB2030	1STQ007619A0000	1/1
Blind side panel IP30, IP40	2000	500	PPEB2050	1STQ007621A0000	1/1
Blind side panel IP30, IP40	2000	700	PPEB2070	1STQ007623A0000	1/1
Blind side panel IP30, IP40	2000	900	PPEB2090	1STQ007625A0000	1/1

Realization of the different IP protection class

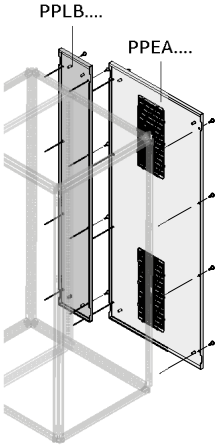
IP41
IP30/IP40 blind top/bottom
IP40 side blind panels
IP30 vertical finishing profiles or IP40 blind door or glass door
IPX top sealing kit PKST.... / PKDT....



External blind side panel IP30/IP40 for D=1250mm

Pickled sheet steel without gasket. The code refers to one single side panel. In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKDT..., page 2/22.

Description	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Aerated side panel IP30	1800	900	PPEA1821	1STQ005569B0000	1/1
Blind side panel IP40			PPRB1821	1STQ005570B0000	1/1
Aerated side panel IP30	2000	900	PPEA2021	1STQ005571B0000	1/1
Blind side panel IP40			PPRB2021	1STQ005572B0000	1/1
Blind side panel IP40	1800	350	PPLB1821	1STQ005833B0000	1/1
Blind side panel IP40	2000	350	PPLB2021	1STQ005834B0000	1/1



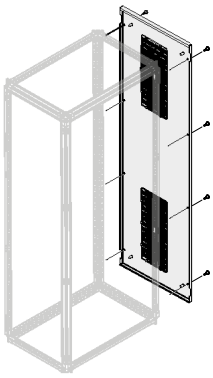
Realization of the different IP protection class

IP31	**IP41**
IP30/IP40 blind top/bottom	IP30/IP40 blind top/bottom
IP30 side vented panels	**IP40 side blind panels**
IP30 vertical finishing profiles or blind door or glass door without gasket	Blind door or glass door without gasket
IPX1 top sealing kit PKST.... /PKDT....	IPX1 top sealing kit PKST.... / PKDT....

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

Order codes - External covers



External vented side panel IP30

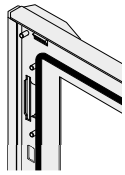
Pickled sheet steel without gasket. The code refers to one single side panel. In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKDT..., page 2/22.

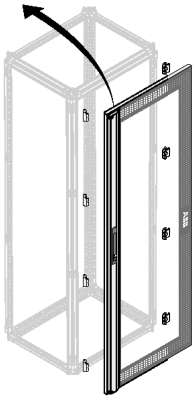
Description	No. Vented grates	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Vented side panel IP30	2	1800	300	PPEA1830	1STQ007630A0000	1/1
Vented side panel IP30	2	1800	500	PPEA1850	1STQ007632A0000	1/1
Vented side panel IP30	2	1800	700	PPEA1870	1STQ007634A0000	1/1
Vented side panel IP30	4	1800	900	PPEA1890	1STQ007637A0000	1/1
Vented side panel IP30	2	2000	300	PPEA2030	1STQ007641A0000	1/1
Vented side panel IP30	2	2000	500	PPEA2050	1STQ007643A0000	1/1
Vented side panel IP30	2	2000	700	PPEA2070	1STQ007645A0000	1/1
Vented side panel IP30	4	2000	900	PPEA2090	1STQ007647A0000	1/1

Realization of the different IP protection class
IP31
IP30/IP40 blind top/bottom
IP30 side vented panels
IP30 vertical finishing profiles or blind door or glass door without gasket
IPX1 top sealing kit PKST.... /PKDT....

Structure

Order codes - External covers





Glass door IP65

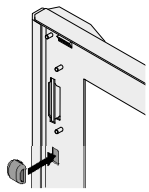
Pickled sheet steel with gasket. Opens through 135° (single column). Complete with 4 hinges to be screwed onto the uprights, 4 door closing brackets with cover and handle. Handle and hinges provided (not pre-assembled for complete reversibility). Doors can be mounted both on the front and on the back of the enclosures.

		Dimensions (mm)					
Description	**No. DIN modules**	**H**	**W**	**Cable compartment W**	**Type**	**Order code**	**Pkg/ No. pcs**
Glass door							
Glass door IP65	12	1800	400		PDLG1846	1STQ007303A0000	1/1
Glass door IP65	24	1800	600		PDLG1866	1STQ007305A0000	1/1
Glass door IP65	36	1800	800		PDLG1886	1STQ007308A0000	1/1
Glass door IP65	48	1800	1000		PDLG1816	1STQ007311A0000	1/1
Glass door IP65	12	2000	400		PDLG2046	1STQ007314A0000	1/1
Glass door IP65	24	2000	600		PDLG2066	1STQ007316A0000	1/1
Glass door IP65	36	2000	800		PDLG2086	1STQ007319A0000	1/1
Glass door IP65	48	2000	1000		PDLG2016	1STQ007322A0000	1/1
Glass door for structures with internal cable compartment							
Glass door IP65	12	1800	600	200	PDLG1842	1STQ007304A0000	1/1
Glass door IP65	12	1800	800	400	PDLG1844	1STQ007306A0000	1/1
Glass door IP65	24	1800	800	200	PDLG1862	1STQ007307A0000	1/1
Glass door IP65	24	1800	1000	400	PDLG1864	1STQ007309A0000	1/1
Glass door IP65	36	1800	1000	200	PDLG1882	1STQ007310A0000	1/1
Glass door IP65	12	2000	600	200	PDLG2042	1STQ007315A0000	1/1
Glass door IP65	12	2000	800	400	PDLG2044	1STQ007317A0000	1/1
Glass door IP65	24	2000	800	200	PDLG2062	1STQ007318A0000	1/1
Glass door IP65	24	2000	1000	400	PDLG2064	1STQ007320A0000	1/1
Glass door IP65	36	2000	1000	200	PDLG2082	1STQ007321A0000	1/1

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

Order codes - External covers





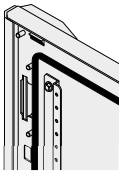
Glass door without gasket

Suitable for IP30 and IP40 configuration. Pickled sheet steel without gasket and 4 rubber overlapping plugs. Opens through 135° (single column). Complete with 4 hinges to be screwed onto the uprights, 4 door closing brackets with cover and handle. Handle and hinges provided (not pre-assembled for complete reversibility). In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKST...and PKDT..., page 2/22. Doors can be mounted both on the front and on the back of the enclosures.

		Dimensions (mm)					
Description	No. DIN modules	H	W	Cable compartment W	Type	Order code	Pkg/ No. pcs
Glass door							
Glass door	12	1800	400		PDLG1840	1STQ007325A0000	1/1
Glass door	24	1800	600		PDLG1860	1STQ007327A0000	1/1
Glass door	36	1800	800		PDLG1880	1STQ007330A0000	1/1
Glass door	48	1800	1000		PDLG1810	1STQ007333A0000	1/1
Glass door	12	2000	400		PDLG2040	1STQ007336A0000	1/1
Glass door	24	2000	600		PDLG2060	1STQ007338A0000	1/1
Glass door	36	2000	800		PDLG2080	1STQ007341A0000	1/1
Glass door	48	2000	1000		PDLG2010	1STQ007344A0000	1/1
Glass door for structures with internal cable compartment							
Glass door	12	1800	600	200	PDLG8420	1STQ007326A0000	1/1
Glass door	12	1800	800	400	PDLG8440	1STQ007328A0000	1/1
Glass door	24	1800	800	200	PDLG8620	1STQ007329A0000	1/1
Glass door	24	1800	1000	400	PDLG8640	1STQ007331A0000	1/1
Glass door	36	1800	1000	200	PDLG8820	1STQ007332A0000	1/1
Glass door	12	2000	600	200	PDLG2420	1STQ007337A0000	1/1
Glass door	12	2000	800	400	PDLG2440	1STQ007339A0000	1/1
Glass door	24	2000	800	200	PDLG2620	1STQ007340A0000	1/1
Glass door	24	2000	1000	400	PDLG2640	1STQ007342A0000	1/1
Glass door	36	2000	1000	200	PDLG2820	1STQ007343A0000	1/1

Realization of the different IP protection class

IP31	IP41
IP30/IP40 blind top/bottom	IP30/IP40 blind top/bottom
IP30 side/rear vented panels	IP40 side/rear blind panels
Glass door without gasket	**Glass door without gasket**
IPX1 top sealing kit PKST.... /PKDT....	IPX1 top sealing kit PKST.... / PKDT....





Blind door IP65

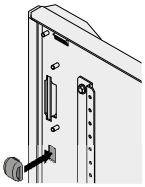
Pickled sheet steel with gasket. Opens through 135° (single column). Complete with 4 hinges to be screwed onto the uprights, 4 door closing brackets with cover and handle. Handle and hinges provided (not pre-assembled for complete reversibility). Doors can be mounted both on the front and on the back of the enclosures. Reinforcing tubes for W>400mm

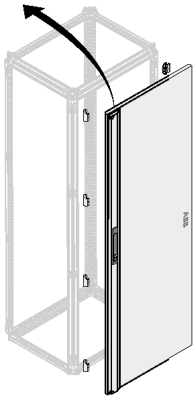
Description	No. DIN modules	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Blind door IP65 cable compartment	-	1800	300	PDLB1836	1STQ007347A0000	1/1
Blind door IP65	12	1800	400	PDLB1846	1STQ007348A0000	1/1
Blind door IP65	24	1800	600	PDLB1866	1STQ007349A0000	1/1
Blind door IP65	36	1800	800	PDLB1886	1STQ007350A0000	1/1
Blind door IP65	48	1800	1000	PDLB1816	1STQ007351A0000	1/1
Blind door IP65 cable compartment	-	2000	300	PDLB2036	1STQ007354A0000	1/1
Blind door IP65	12	2000	400	PDLB2046	1STQ007355A0000	1/1
Blind door IP65	24	2000	600	PDLB2066	1STQ007356A0000	1/1
Blind door IP65	36	2000	800	PDLB2086	1STQ007357A0000	1/1
Blind door IP65	48	2000	1000	PDLB2016	1STQ007358A0000	1/1

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

Order codes - External covers





Blind door without gasket

Suitable for IP30 and IP40 configuration. Pickled sheet steel without gasket and 4 rubber overlapping plugs. Opens through 135° (single column). Complete with 4 hinges to be screwed onto the uprights, 4 door closing brackets with cover and handle. Handle and hinges provided (not pre-assembled for complete reversibility). In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKST...and PKDT..., page 2/22. Doors can be mounted both on the front and on the back of the enclosures. Reinforcing tubes for W>400mm

		Dimensions (mm)				
Description	**No. DIN modules**	**H**	**W**	**Type**	**Order code**	**Pkg/ No. pcs**
Blind door cable compartment	-	1800	300	PDLB1830	1STQ007361A0000	1/1
Blind door	12	1800	400	PDLB1840	1STQ007362A0000	1/1
Blind door	24	1800	600	PDLB1860	1STQ007363A0000	1/1
Blind door	36	1800	800	PDLB1880	1STQ007364A0000	1/1
Blind door	48	1800	1000	PDLB1810	1STQ007365A0000	1/1
Blind door cable compartment	-	2000	300	PDLB2030	1STQ007368A0000	1/1
Blind door	12	2000	400	PDLB2040	1STQ007369A0000	1/1
Blind door	24	2000	600	PDLB2060	1STQ007370A0000	1/1
Blind door	36	2000	800	PDLB2080	1STQ007371A0000	1/1
Blind door	48	2000	1000	PDLB2010	1STQ007372A0000	1/1

Realization of the different IP protection class

IP31	**IP41**
IP30/IP40 blind top/bottom	IP30/IP40 blind top/bottom
IP30 side/rear vented panels	IP40 side/rear blind panels
Blind door without gasket	**Blind door without gasket**
IPX1 top sealing kit PKST.... /PKDT....	IPX1 top sealing kit PKST.... / PKDT....



Double doors without gasket for W=1250mm structures

Doors with overlapping to use with the door with handle to create switchboards with double doors. Handle and hinges provided (not pre-assembled for complete reversibility). Doors can be mounted both on the front and on the back of the enclosures. In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit, page 2/22.

	Dimensions (mm)				
Description	**H**	**W**	**Type**	**Order code**	**Pkg/ No. pcs**
Door with overlapping					
Blind door with overlapping	1800	250	PDLB8120	1STQ007366A0000	1/1
Blind door with overlapping	2000	250	PDLB2120	1STQ007373A0000	1/1
Door with handle					
Glass door with handle	1800	1000	PDLG8500	1STQ007335A0000	1/1
Glass door with handle	2000	1000	PDLG2500	1STQ007346A0000	1/1
Blind door with handle	1800	1000	PDLB8500	1STQ007367A0000	1/1
Blind door with handle	2000	1000	PDLB2500	1STQ007374A0000	1/1

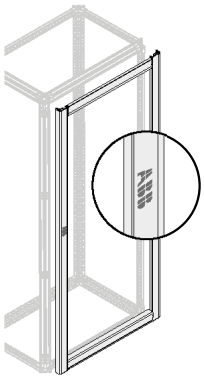
Realization of the different IP protection class

IP31	**IP41**
IP30/IP40 blind top/bottom	IP30/IP40 blind top/bottom
IP30 side/rear vented panels	IP40 side/rear blind panels
Blind door without gasket	**Blind door without gasket**
IPX1 top sealing kit PKST.... /PKDT....	IPX1 top sealing kit PKST.... / PKDT....

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

Order codes - External covers

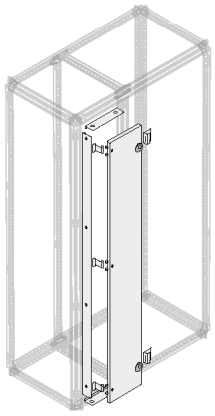


Horizontal/vertical front closing profiles IP30

Profiles for IP30/IP31 pickled sheet painted RAL 7012. In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKST...and PKDT..., page 2/22.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Finishing profiles vertical structure and external cable compartment					
No.2 vertical profiles IP30	1800		PPFV1800	1STQ008059A0000	1/2
No.2 vertical profiles IP30	2000		PPFV2000	1STQ008060A0000	1/2
Finishing profile vertical internal cable compartment					
No.1 profile vertical IP30	1800		PPCV1800	1STQ009294A0000	1/1
No.1 profile vertical IP30	2000		PPCV2000	1STQ009295A0000	1/1
Finishing profiles horizontal structure and external cable compartment					
No.2 horizontal profiles IP30		300	PPFH0300	1STQ008053A0000	1/2
No.2 horizontal profiles IP30		400	PPFH0400	1STQ008054A0000	1/2
No.2 horizontal profiles IP30		600	PPFH0600	1STQ008055A0000	1/2
No.2 horizontal profiles IP30		800	PPFH0800	1STQ008056A0000	1/2
No.2 horizontal profiles IP30		1000	PPFH1000	1STQ008057A0000	1/2
No.2 horizontal profiles IP30		1250	PPFH1250	1STQ008058A0000	1/2

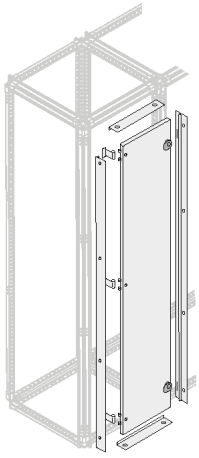
Realization of the different IP protection class
IP31
IP30/IP40 blind top/bottom
IP30 side/rear vented panels
IP30 vertical finishing profiles
IPX1 top sealing kit PKST.... /PKDT....



Internal door for internal cable compartment

Internal door in pickled steel sheet for cable compartment IP30.

Description	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Blind door for internal cable compartment	1800	200	PDCB1820	1STQ007753A0000	1/1
Blind door for internal cable compartment	1800	400	PDCB1840	1STQ007754A0000	1/1
Blind door for internal cable compartment	2000	200	PDCB2020	1STQ007755A0000	1/1
Blind door for internal cable compartment	2000	400	PDCB2040	1STQ007756A0000	1/1



Internal door for external cable compartment

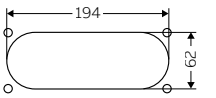
Internal door in pickled steel sheet for cable compartment IP30.

Description	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Blind door for external cable compartment	1800	200	PDCB1830	1STQ008086A0000	1/1
Blind door for external cable compartment	1800	400	PDCB1844	1STQ008087A0000	1/1
Blind door for external cable compartment	2000	200	PDCB2030	1STQ008088A0000	1/1
Blind door for external cable compartment	2000	400	PDCB2044	1STQ008089A0000	1/1

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

Order codes - Structure finishing components

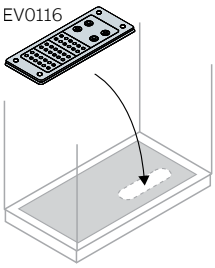




EV0114



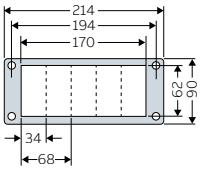
EV0116



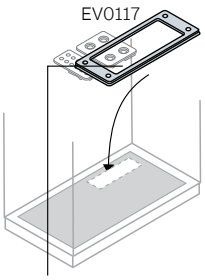
Pre-configured plastic cable gland flanges IP65

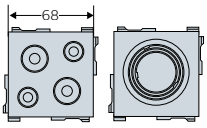
Allow numerous cables to be installed and guarantee that the components inside the switchboards are protected.
The inserts have a membrane through which the cable can be easily pushed without the need for tools. IP65 protection class is guaranteed over the entire flange regardless of the number of cables installed. Cable clamp, and cable gland with cable clamp can also be installed.
RAL 7035 grey colour; operating temperature from -20 °C to +125 °C, IP65 protection class in accordance with EN 60529 specifications.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
No.1 pre-configured incoming cable flange for 18 cables (Ø min/max 8/14mm) and 10 cables (Ø min/max 4/10mm)	214	90	EV0114	1STQ006545A0000	1/1
No.1 pre-configured incoming cable flange for 30 cables (Ø min/max 4/10mm), 2 cables (M20 Ø min/max 7/13mm) and 2 cables (M25 Ø min/max 8/17mm)	214	90	EV0116	1STQ006546A0000	1/1

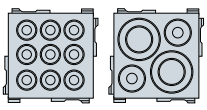


EV0117

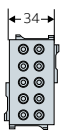


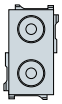


EV0119 EV0121

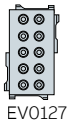


EV0123 EV0124





EV0125 EV0126



EV0127

Flanges with adaptable plastic cable gland inserts IP65

Thanks to the frame and inserts available, the flange can be adapted to suit the size, quantity and position of the cables installed. The inserts have a membrane through which the cable can be easily pushed without the need for tools. IP65 protection class is guaranteed over the entire flange regardless of the number of cables installed. Cable clamp, and cable gland with cable clamp can also be installed.
RAL 7035 grey colour; operating temperature from -20 °C to +125 °C, IP65 protection class in accordance with EN 60529 specifications.

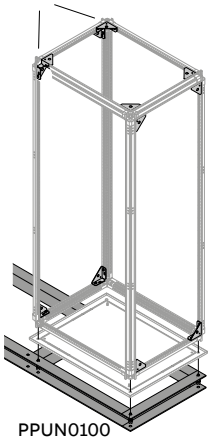
Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Adaptable modular flanges					
N. 1 modular flange adaptable to compose with single inserts	214	90	EV0117	1STQ006547A0000	1/1
Inserts for adaptable flanges					
No.10 (ten) 68x68mm inserts for 4 incoming cables, 2 cables (M25 Ø min/ max 8/17mm), 2 cables (M16 Ø min/max 5/10mm)	68	68	EV0119	1STQ006548A0000	1/1
No.10 (ten) 68x68mm inserts for 1 incoming cable type M32 / M40 / M50	68	68	EV0121	1STQ006549A0000	1/1
No.10 (ten) 68x68mm inserts for 9 incoming cables (Ø min/max 8/14mm)	68	68	EV0123	1STQ006550A0000	1/1
No.10 (ten) 68x68mm inserts for 4 incoming cables, 2 (Ø min/max 10/20) and 2 (Ø min/max 20/30mm)	68	68	EV0124	1STQ006551A0000	1/1
No.10 (ten) 34x68mm inserts for 2 incoming cables (Ø min/max 8/17mm)	34	68	EV0125	1STQ006552A0000	1/1
No.10 (ten) 34x68mm inserts for 2 incoming cables (Ø min/max 7/13mm)	34	68	EV0126	1STQ006553A0000	1/1
No.10 (ten) 34x68mm inserts for 10 incoming cables (Ø min/max 4/10mm)	34	68	EV0127	1STQ006554A0000	1/1

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

Order codes - Structure finishing components

PRAS0012



PPUN0100

Anti-seismic kit

Anti-seismic is an important thematic which is proper implemented in ABB by testing product solutions that meet the growing security demands and requirements from different markets.

Similar applications*

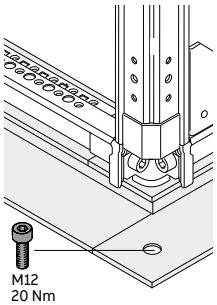
Cabinet without specific accessories

According to standards EC 60068-2-57 - IEEE Std 693	According to Seismic Zone IEC 68-3-3	Magnitude according to Richter scale	Intensity according to Mercalli scale
Resistance capacity up to 0.69g (ZPA zero period acceleration)	Zona 4	7	9

Cabinet with specific accessories PRAS0012 + reinforced base compartment PPUN0100

According to standards IEC 60068-2-57 - IEEE Std 693	According to Seismic Zone IEC68-3-3	Magnitude according to Richter scale	Intensity according to Mercalli scale
Capacità di resistenza fino a 0,75 g (ZPA zero period acceleration)	Zone 4	7.5	10

* The references to the intensity scales are indicative.



M12
20 Nm

Order codes for resistance capacity up to 0.75g (ZPA zero period acceleration)

Description	Type	Order code	Pkg/ No. pcs
Antiseismic plinth H=100mm joining structure*	PPUN0100	1STQ002089B0000	1/1
No.12 antiseismic reinforcement kits**	PRAS0012	1STQ002088B0000	1/12

* Always enclose a drawing of the front view of the bank of switchboards indicating the positions of the lifting tubes and the type of base of each column (whether the column is with baseplate or without baseplate).
Unit of measurement when ordering: METER .
Maximum length 4.2m (the length refers to the external measurement of the column/bank).
** Always order 1 (one) PRAS0012 component per structure (also when there is an external cable compartment). The only case when it is not required is when there are side segregations that perform the same reinforcing function.

After the seismic event in the defined limits and conditions, it is guaranteed:

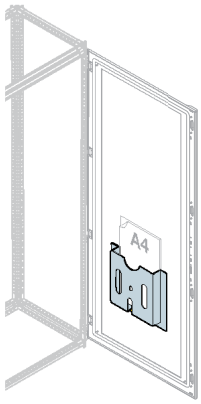
- No collapse of the structure.
- Operation of the switchboard after the earthquake.
- Maintaining of the mechanical characteristics, IP and IK.

Some suggestions are provided in order to increase the capability of the switchboard to withstand to a seismic event:

- It is better to distribute the weight at the bottom of the switchboard.
- Tighten the structure, by segregating it or by increasing the number of busbar holders.
- Fixing of floor structure with M12 class 8.8 screws.
- Avoid fixing the frame to the wall, possibly keeping a distance of 600mm to avoid the “hammer” effect during the earthquake, if there is no space make sure the wall is structured for fastening.
- Give maintenance instructions, for example after a seismic event of 0.5g check the tightening torques.
- Busways can compromise stability.
- If it is possible, it is better to reduce height dimension of the enclosure.
- Two structures side by side carry more than a single one.
- The lifting bar strengths the structure. If you have a cable feed, expect an additional length in the cables.
- For details, see Chapter 7 - anti-seismic withstand

Structure

Order codes - Structure finishing components

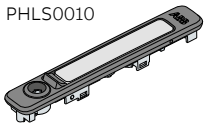


Plastic pocket for documents

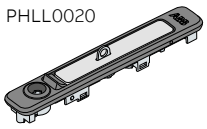
Complete with adhesive parts for fixing to the door.

Description	Type	Order code	Pkg/ No. pcs
Plastic pocket for A4 documents	EV1075K	1STQ008199A0000	1/1

PHLS0010



PHLL0020

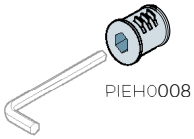




PITH0064



PISH0007



PIEH0008



AA6200
AA8004



PIFH0020



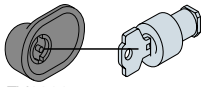
AD1058



AA1560



AA1570



EV1008

EV1036
EV1037

Closing systems

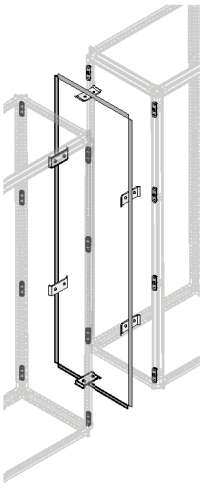
Can replace the standard closing systems of the external doors. The inserts are interchangeable and can be easily replaced by loosening just one nut.

Description	Type	Order code	Pkg/ No. pcs
Standard handles			
Standard lever handle (spare)	PHLS0010	1STQ008126A0000	1/1
Padlockable lever handle (spare; padlock diameter up to 8mm)	PHLL0020	1STQ008128A0000	1/1
Inserts and keys for standard handle			
Double tab insert for closing handle/box	PIDH0010	1STQ008118A0000	1/1
6.4 triangular male insert on Ø 7.6 for external door, single door version	PITH0064	1STQ008119A0000	1/1
7 square male insert for external door, single door version	PISH0007	1STQ008120A0000	1/1
Insert 8mm hex socket type for standard handle (Key not available)	PIEH0008	1STQ008121A0000	1/1
Yale insert+key for external door, single door version	AA6200	1STQ009135A0000	1/1
E739 ronis insert+key for external door, single door version	AA8004	1STQ009136A0000	1/1
Ronis 405 insert and key for standard handle	PIRH0405	1STQ008123A0000	1/1
Ronis insert 2432 and key for standard handle	PIRH2432	1STQ002030B0000	1/1
Ronis 455 insert and key for standard handle	PIRH0455	1STQ008124A0000	1/1
Ronis 1242 insert and key for standard handle	PIRH1242	1STQ008125A0000	1/1
FIAT type insert for lever handle	PIFH0020	1STQ008122A0000	1/1
Key zama for double tab insert	AD1058	1STQ009134A0000	1/1
Key for triangular insert	AA1560	1STQ009138A0000	1/1
FIAT key	AA1570	1STQ009137A0000	1/1
Box for closing internal cable compartment			
Box with double tab insert in plastic with key for inner door (Nema TYPE 12)	EV1008	1STQ000956A0000	1/1
Inserts and keys for closing box for internal cable compartment			
3mm double tab insert for inner door	EV1039	1STQ000976A0000	1/1
Double tab insert for closing handle/box	PIDH0010	1STQ008118A0000	1/1
Ronis 455 insert for EV1008	EV1037	1STQ000975A0000	1/1
One-code Yale insert for inner door	EV1036	1STQ000974A0000	1/1

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

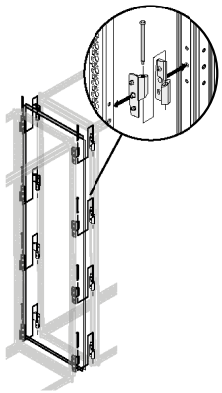
Order codes - Structure finishing components



Kit for joining structures

The kit for joining structures is composed of different brackets and a gasket for the maintenance of the IP protection degree and allows both a side-by-side and a back-to-back joining of structures.

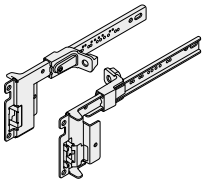
Description	Type	Order code	Pkg/ No. pcs
Kit for joining structures side by side / back to back	PSBS0065	1STQ008113A0000	1/8
Kit for joining corner structures	PSCS0579	1STQ009185A0000	1/12



Kit external for joining structures

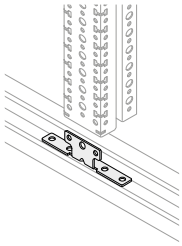
The joining kit includes 16 joining plates, 8 pins and a gasket to maintain the protection degree and allow switchboards to be joined together both at the sides and rear. Use of the kit is recommended since it makes it easier to join switchboards after transport in segregated units because the assembly operations are performed outside the structure. The kit cannot be used for lifting.

Description	Type	Order code	Pkg/ No. pcs
Kit external for joining structures	PSES0008	1STQ001589B0000	1/16



Brakets for circuit-breaker kit (spare parts)

Description	Type	Order code	Pkg/ No. pcs
Brakets for circuit-breaker kit left and right side	PBKT0002	1STQ002008B0000	1/2



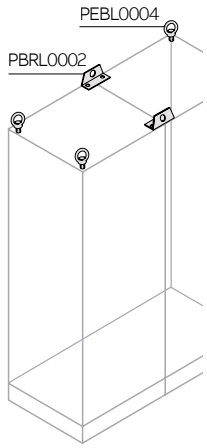
Brakets for intermediate upright (spare parts)

Description	Type	Order code	Pkg/ No. pcs
No.2 brakets for intermediate upright	PKMI0002	1STQ002021B0000	1/2

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Structure

Order codes - accessories and spare parts



Eyebolts for lifting

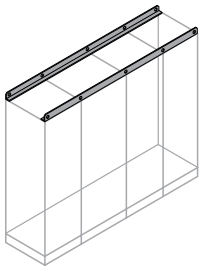
Allow wired switchboards to be lifted. Made of steel treated with a white passivated galvanizing process.

Description	Type	Order code	Pkg/ No. pcs
No.4 steel M12 eyebolts	PEBL0004	1STQ008112A0000	1/4

Lifting reinforcements

Used for handling several adjacent switchboards.

Description	Type	Order code	Pkg/ No. pcs
No.2 lifting reinforcements for adjacent switchboards	PBRL0002	1STQ008116A0000	1/2

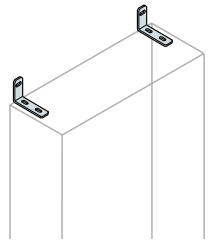


Lifting beam

The beam has holes for lifting equipment. Length up to 6 meters.
RAL 7012 grey colour with textured finish.

Description	Type	Order code	Pack./ No.pcs
Coppia di travi di sollevamento per quadri affiancati	TU1000		1/2

Always enclose a drawing of the front view of the bank of switchboards indicating the width of each column and the sequence of switchboards.
Unit of measurement when ordering: METER.
Maximum length 6 m (the length refers to the external measurement of the column/bank).



Wall-mounting brackets

Allow the switchboards to be fixed to a wall

Description	Type	Order code	Pkg/ No. pcs
No.2 wall-mounting brackets	PBWF0002	1STQ008115A0000	1/2

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

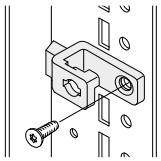
Structure

Order codes - accessories and spare parts

PSCP0024



PCSS0024



Screws

Description	Type	Order code	Pkg/ No. pcs
No.1000 self-perforating 4.2x13mm cross-head crews	EV1100	1STQ001005A0000	1/1000
No.1000 self-perforating 4.2x19mm cross-head screws	EV1101	1STQ001006A0000	1/1000
No.24 screws for side/rear panels	PSCP0024	1STQ009182A0000	1/24
No.24 screws 1/4 turn with washers	PCSS0024	1STQ009183A0000	1/24
No.20 M5 Torx screws and nylon washers L=16mm	EV0103	1STQ006608A0000	1/20
No.20 M6 Torx screws and nylon washers L=16mm	EV0104	1STQ006609A0000	1/20



Axial screws for uprights

Axial screws for 3 way joint uprights.

Description	Type	Order code	Pkg/ No. pcsi
No.16 axial screws for uprights	PSAF0016	1STQ008110A0000	1/16
No.50 M4x14 Torx screws and 50 caged nuts	PKJI0414	1STQ002339B0000	1/50
No.50 M5x14 Torx screws and 50 caged nuts	PKJI0514	1STQ002340B0000	1/50
No.50 M6x14 Torx screws and 50 caged nuts	PKJI0614	1STQ002341B0000	1/50
No.50 flat trilobate Torx screw M6x10	PKJI0615	1STQ002369B0000	1/100

Hinges for standard doors

Description	Type	Order code	Pkg/ No. pcs
No.4 hinges for standard door	PHDR0004	1STQ009159A0000	1/4
No.4 180° opening hinges	PHFR4180	1STQ009158A0000	1/4

• Quick selection guides page **2**–8 • Technical details page **7**–1 • Overall dimensions page **8**–1

Chapter 3
Internal kits

3–2 **General information**

3–2 **Kits for Emax 2 air circuit-breakers**

3–2 **Kits for Tmax XT and Tmax T mouldedcase circuit-breakers**

3–3 **Kits for System Pro M e modular circuit breakers XT1 and XT3 moulded-case circuit-breakers**

3–3 **Kits for OT switch-disconnectors**

3–4 **Recommended installation solutions**

3–10 **Examples of use**

3–16 **Kits for circuit breakers**

3–62 **Guide to the order code**

3–63 **Order codes**

3–63 **Internal kits**

3–95 **Accessories and spare parts**

Internal kits
General information

The switchboards can be assembled very quickly even when extremely complex apparatus is involved thanks to the innovative internal kits designed for System pro E power.

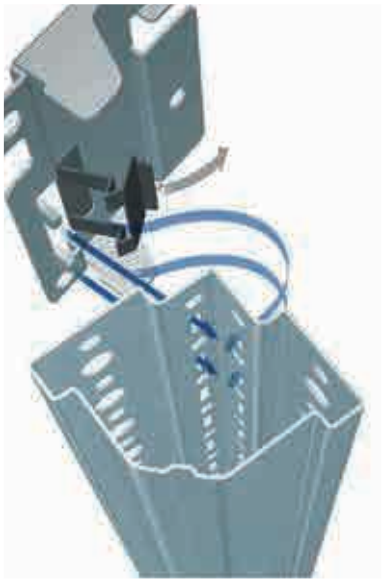
They match perfectly with the new uprights and crosspieces with double fixing levels and are available for air and moulded-case circuit-breakers, switch-disconnectors, modular circuit-breakers and internal segregation partitions.

The main advantages are:

- Quick click-in fixing system with ¼ turn screws
- Common kits for 3- and 4-pole moulded-case circuit-breakers installed horizontally
- Same front panels for fixed and swing frames, and for screwed and hinged solutions
- Two front panel height sizes available (150 and 200mm) for DIN rail kits.

Simple, effective systems for fixing the kits save time when the switchboards are assembled.

—
01



Kits for Emax 2 air circuit-breakers

Available for all sizes from E1.2 to E6.2 in fixed and withdrawable versions. Sturdy and simple, they meet the requirements of all applications, from 630 to 6300A.

—
02



Kits for Tmax XT and Tmax T moulded-case circuit-breakers

Available for XT1 to XT4 and T4 to T7 circuit-breakers. The major innovations include the common kit for 3- and 4-pole circuit-breakers installed horizontally and the 150mm height panel, which allows more circuit-breakers to be installed in the same unit than the 200mm panel solution.

—
01 Quick click-in fixing system with ¼ turn screws.
—
02 Kits for Emax 2 air circuit-breakers



—
03 Kits for System Pro M, Tmax XT and Tmax T moulded-case circuit-breakers
—
04 Plate for Tmax XT and Tmax T moulded-case circuit-breakers.
Holes with shaped openings for rear connections for 3P ci cuit-breakers; pre-cut holes included for 4P.
Holes for front terminals, with flexible insulated connections that proceed behind the plate for fixed circuitbreakers (for W=400mm only Tmax XT1 and XT2): all terminal covers for segregated versions are required.
Holes for front terminals with connections routed from the side: these can be anchored by fixing the dedicated accessory to the round holes (allowing flexible busbars to be fastened). The clamps can be threaded through the rectangular holes..

Kits for System Pro M and XT1 and XT2 moulded-case cir-cuit-breakers

Available for all modular circuit-breakers and for XT1 and XT2 moulded-case circuit-breakers.

The DIN rail provides two pre-engineered assembly positions, corresponding to the depth of System pro M and Tmax XT circuit-breakers, respectively. The 150mm height panel also allows more circuit-breakers to be installed in the same unit than the 200mm panel solution. same unit than the 200mm panel solution.

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03



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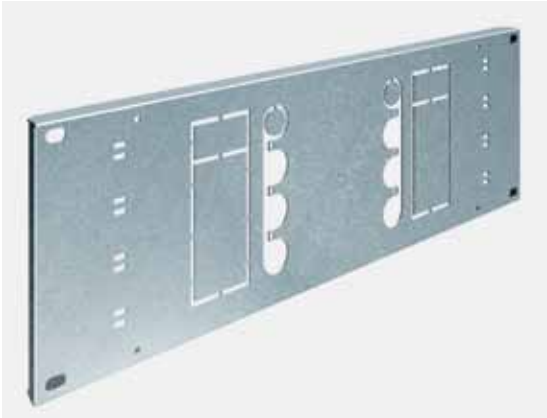
04



Kits for OT switch-disconnectors

Available for OT up to 1600 A both in the vertical and horizontal versions.

For more information about ABB apparatus, go to the following link:
https://new.abb.com/low-voltage/en

Internal kits

Quick selection guides

Recommended installation solutions for not accessorized apparatus

Modular and Tmax moulded-case circuit-breakers			Type of structure/installation Form 1, Form 2b switchboard D=200mm HORIZ.	D=200mm VERT.	D=300mm HORIZ.	D=300mm VERT.	D=500mm HORIZ.	
System pro-M				✓		✓		
Tmax XT1	**front terminals with side exit**	fixed	✓	✓	✓	✓	✓	
		plug-in			✓	✓	✓	
		fixed+diff	✓	✓	✓	✓	✓	
	rear/front terminals with rear exit	fixed	✓	✓		✓	✓	
		plug-in				✓	✓	
Tmax XT2	**front terminals with side exit**	fixed	✓	✓	✓	✓	✓	
		plug-in			✓	✓	✓	
		withdrawable			✓	✓	✓	
		withdrawable+ diff			✓	✓	✓	
		fixed+diff	✓	✓	✓	✓	✓	
	rear/front terminals with rear exit	fixed	✓	✓		✓	✓	
		plug-in				✓	✓	
		withdrawable				✓	✓	
		withdrawable+ diff				✓	✓	
Tmax XT3	**front terminals with side exit**	fixed	✓	✓	✓	✓	✓	
		plug-in			✓	✓	✓	
		fixed+diff	✓	✓	✓	✓	✓	
	rear/front terminals with rear exit	fixed				✓	✓	
		plug-in				✓	✓	
Tmax XT4	**front terminals with side exit**	fixed	✓	✓	✓	✓	✓	
		plug-in			✓	✓	✓	
		withdrawable			✓	✓	✓	
		withdrawable+ diff			✓	✓	✓	
		fixed+diff	✓	✓	✓	✓	✓	
	rear/front terminals with rear exit	fixed	✓	✓		✓	✓	
		plug-in				✓	✓	
		withdrawable				✓	✓	
		withdrawable+ diff				✓	✓	
Tmax T4	**front terminals with side exit**	fixed	✓	✓	✓	✓	✓	
		fixed+diff	✓	✓	✓	✓	✓	
	rear/front terminals with rear exit	fixed				✓	✓	
		fixed+diff				✓	✓	
Tmax XT5 Tmax T5 400/630A	**front terminals with side exit**	fixed	✓	✓	✓	✓	✓	
		plug-in			✓	✓	✓	
		plug-in+diff			✓	✓	✓	
		withdrawable			✓	✓	✓	
		fixed+diff	✓	✓	✓	✓	✓	
	rear/front terminals with rear exit	fixed				✓ (3)	✓	
		plug-in				✓ (3)	✓	
		plug-in+diff				✓ (3)	✓	
		withdrawable				✓ (3)	✓	
		fixed+diff				✓ (3)	✓	
Tmax XT6 Tmax T6	**front terminals with side exit**	fixed	✓	✓	✓	✓	✓	
		withdrawable [2]			✓	✓	✓	
	rear/front terminals with rear exit [1]	fixed	✓	✓		✓	✓	
		withdrawable				✓	✓	
Tmax XT7 Tmax T7	**front terminals with side exit**	fixed			✓	✓	✓	
		withdrawable						
	rear/front terminals with rear exit	fixed			✓		✓	
		withdrawable						

[1] Front terminals with rear exit, only Form 1. [2] Only Form 1.
[3] Front terminals with rear exit.

						Type of structure/installation					
						Form 2a-3a, Form 3b, Form 4b switchboard					
		D=700mm		D=900mm		D=500mm		D=700mm		D=900mm	
	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.
	✓		✓		✓	✓	✓	✓	✓		✓
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	✓	✓	✓	✓	✓	✓		✓		✓	
	✓	✓	✓	✓	✓	✓		✓		✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓				✓	
	✓	✓	✓	✓	✓						
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
		✓	✓	✓	✓			✓	✓	✓	✓

Internal kits

Quick selection guides

Minimum depths for installation of non-accessorized apparatus (with insulators not spaced)

Emax air circuit-breakers			Type of structure/installation Form 1, Form 2b switchboard D=300mm HORIZ.	D=300mm VERT.	D=500mm HORIZ.	D=500mm VERT.
Emax E1.2	front and rear terminals	fixed	✓	✓	✓	✓
	rear terminals	withdrawable			✓	✓
Emax E2.2	rear terminals	fixed				✓
		withdrawable				
Emax E4.2	rear terminals	fixed				
		withdrawable				
Emax E6.2	rear terminals	fixed				
		withdrawable				

(1) For busbar systems from 3200A. (2) The busbar systems cannot be placed behind the breakers.

Recommended installation solutions for accessorized apparatus

Tmax moulded-case circuit-breakers with Direct Rotary Handle operating mechanism or motor operator			Type of structure/installation Form 1, Form 2b switchboard D=300mm HORIZ.	D=300mm VERT.	D=500mm HORIZ.	D=500mm VERT.
Tmax T4	front terminals with side exit	fixed	✓	✓	✓	✓
	rear/front terminals with rear exit	fixed		✓	✓	✓
Tmax XT5 Tmax T5 400/630A	front terminals with side exit	fixed	✓	✓	✓	✓
		plug-in		✓	✓	✓
		withdrawable		✓	✓	✓
	rear/front terminals with rear exit	fixed			✓	✓
		plug-in			✓	✓
		withdrawable			✓	✓
Tmax XT6 Tmax T6	front terminals with side exit	fixed	✓	✓	✓	✓
		withdrawable (2)		✓	✓	✓
	rear/front terminals with rear exit (1)	fixed			✓	✓
		withdrawable			✓	✓
Tmax XT7 Tmax T7	front terminals with side exit	fixed		✓	✓	✓
		withdrawable				
	rear/front terminals with rear exit	fixed	✓	✓	✓	✓
		withdrawable				
Tmax XT1	front terminals with side exit	fixed	✓	✓	✓	✓
		plug-in		✓	✓	✓
	rear/front terminals with rear exit	fixed		✓	✓	✓
		withdrawable			✓	✓
Tmax XT2	front terminals with side exit	fixed	✓	✓	✓	✓
		plug-in		✓	✓	✓
		withdrawable		✓	✓	✓
	rear/front terminals with rear exit	fixed		✓	✓	✓
		plug-in			✓	✓
		withdrawable			✓	✓
Tmax XT3	front terminals with side exit	fixed	✓	✓	✓	✓
		plug-in		✓	✓	✓
	rear/front terminals with rear exit	fixed		✓	✓	✓
		plug-in			✓	✓
Tmax XT4	front terminals with side exit	fixed	✓	✓	✓	✓
		plug-in		✓	✓	✓
		withdrawable		✓	✓	✓
	rear/front terminals with rear exit	fixed		✓	✓	✓
		plug-in			✓	✓
		withdrawable			✓	✓

(1) Front terminals with rear exit, only Form 1. (2) Only Form 1.

					Type of structure/installation					
					Form 2a-3a, Form 3b, Form 4b switchboard					
	D=700mm		D=900mm		D=500mm		D=700mm		D=900mm	
	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓		✓	✓	✓	✓	✓
		✓		✓		✓ (2)		✓		✓
		✓		✓				✓		✓
		✓ (1)		✓				✓ (1)		✓
		✓ (1)		✓				✓ (1)		✓
				✓						✓
				✓						✓

					Type of structure/installation					
					Form 2a-3a, Form 3b, Form 4b switchboard					
	D=700mm		D=900mm		D=500mm		D=700mm		D=900mm	
	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.
	✓	✓	✓	✓	✓		✓		✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓		✓		✓	
	✓	✓	✓	✓	✓		✓		✓	
	✓	✓	✓	✓	✓		✓		✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓						
	✓	✓	✓	✓						
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓			✓	✓	✓	✓
	✓	✓	✓	✓						
	✓	✓	✓	✓			✓	✓	✓	✓
	✓	✓	✓	✓			✓	✓	✓	✓
	✓	✓	✓	✓	✓		✓		✓	
	✓	✓	✓	✓	✓		✓		✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓		✓		✓	
	✓	✓	✓	✓	✓		✓		✓	
	✓	✓	✓	✓	✓		✓		✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓		✓		✓	
	✓	✓	✓	✓	✓		✓		✓	
	✓	✓	✓	✓	✓		✓		✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Internal kits

Quick selection guides

Recommended installation solutions for accessorized apparatus

Tmax interlocked, interlocked motor-operated moulded-case circuit-breakers			Type of structure/installation Form 1, Form 2b switchboard D=300mm HORIZ.	VERT.	D=500mm HORIZ.	VERT.
Tmax T4	**front terminals with side exit**	fixed	✓		✓	
	rear/front terminals with rear exit	fixed			✓	
Tmax XT5 **Tmax T5**	**front terminals with side exit**	fixed.	✓		✓	
		plug-in	✓		✓	
		withdrawable	✓		✓	
	rear/front terminals with rear exit	fixed			✓	
		plug-in			✓	
		withdrawable			✓	
Tmax XT6 **Tmax T6**	**front terminals with side exit**	fixed	✓		✓	
		withdrawable [2]	✓		✓	
	rear/front terminals with rear exit [1]	fixed	✓		✓	
		withdrawable				
Tmax XT7 **Tmax T7**	**front terminals with side exit**	fixed				
		withdrawable				
	rear/front terminals with rear exit	fixed			✓	✓
		withdrawable				
Tmax XT1	**front terminals with side exit**	fixed	✓		✓	
		plug-in	✓		✓	
	front terminals with side exit	fixed			✓	
		plug-in			✓	
Tmax XT2	**front terminals with side exit**	fixed	✓		✓	
		plug-in	✓		✓	
		withdrawable	✓		✓	
	rear/front terminals with rear exit	fixed			✓	
		plug-in			✓	
		withdrawable			✓	
Tmax XT3	**front terminals with side exit**	fixed	✓		✓	
		plug-in	✓		✓	
	rear/front terminals with rear exit	fixed			✓	
		plug-in			✓	
Tmax XT4	**front terminals with side exit**	fixed	✓		✓	
		plug-in	✓		✓	
		withdrawable	✓		✓	
	rear/front terminals with rear exit	fixed			✓	
		plug-in			✓	
		withdrawable			✓	
Emax air circuit-breakers (minimum depth of structures with insulators not spaced)						
Emax E1.2	**front and rear terminals**	fixed	✓	✓	✓	✓
	rear terminals	withdrawable			✓	✓
Emax E2.2	**rear terminals**	fixed				✓ [4]
		withdrawable				
Emax E4.2	**rear terminals**	fixed				
		withdrawable				
Emax E6.2	**rear terminals**	fixed				
		withdrawable				

[1] Front terminals with rear exit, only Form 1. [2] Only Form 1.

Recommended installation solutions for apparatus

Switch disconnectors with rotating handle deferred			Type of structure/installation Form 1, Form 2b switchboard D=300mm (con kit Drolunga) Horiz.	VERT.	D=500mm Horiz.	VERT.
OT-OTEV	**OT200-OT250-OT160EV**	fixed	✓	✓	✓	✓
	OT315-OT400	fixed	✓	✓	✓	✓
	OT630-OT800	fixed	✓	✓	✓	✓
	OT1000-OT1250-OT1600	fixed			✓	✓

					Type of structure/installation					
					Form 2a-3a, Form 3b, Form 4b switchboard					
	D=700mm		D=900mm		D=500mm		D=700mm		D=900mm	
	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	VERT.
	✓		✓		✓		✓		✓	
	✓		✓		✓		✓		✓	
	✓		✓		✓		✓		✓	
	✓		✓		✓		✓		✓	
	✓		✓		✓		✓		✓	
	✓		✓		✓		✓		✓	
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	✓		✓							
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	✓		✓				✓		✓	
	✓	✓	✓	✓						
	✓	✓	✓	✓			✓	✓	✓	✓
	✓	✓	✓	✓			✓	✓	✓	✓
	✓		✓		✓		✓		✓	
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	✓		✓		✓		✓		✓	
	✓		✓		✓		✓		✓	
	✓		✓		✓		✓		✓	
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	✓		✓		✓		✓		✓	
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	✓		✓		✓		✓		✓	
	✓		✓		✓		✓		✓	
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓		✓	✓	✓	✓	✓
		✓		✓		✓ (4)		✓		✓
		✓		✓				✓		✓
		✓ (3)		✓				✓ (3)		✓
		✓ (3)		✓				✓ (3)		✓
				✓						✓
				✓						✓

(3) For busbar systems from 3200A.
(4) The busbar systems cannot be placed behind the breakers, we recommend fixing them inside the cable compartment.

					Type of structure/installation					
					Form 2a-3a, Form 3b, Form 4b switchboard					
	D=700mm		D=900mm		D=500mm		D=700mm		D=900mm	
	Horiz.	VERT.	Horiz.	VERT.	Horiz.	VERT.	Horiz.	VERT.	Horiz.	VERT.
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

Internal kits
Examples of use

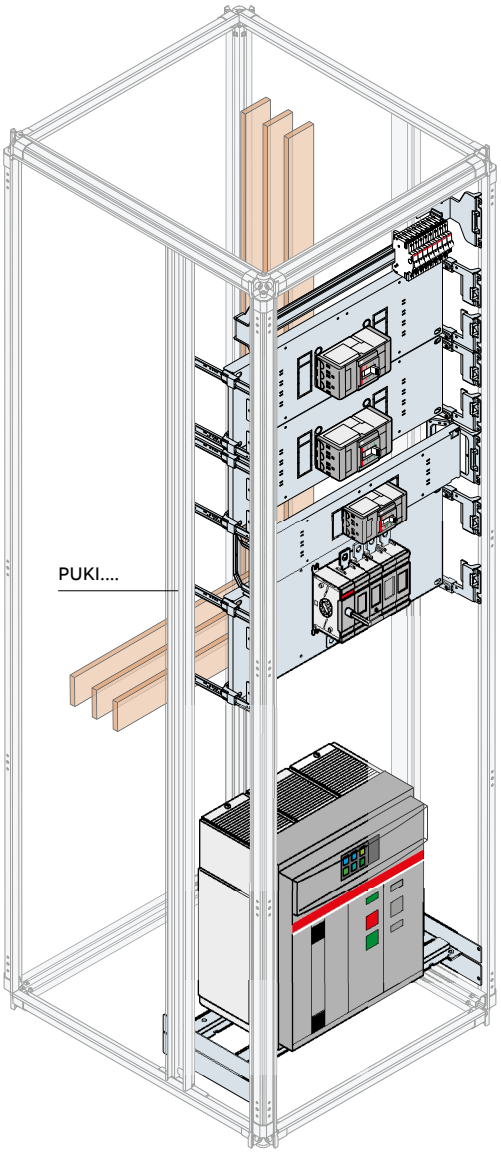
Segregation Form 1

Form 1
(Fig.1)

→ **Form 2b/4a**
(Fig.2-3-4)

→ **Form 2a/3a; Form 3b; Form 4b**
(Fig.5-6-7-8-9-10-11-12)

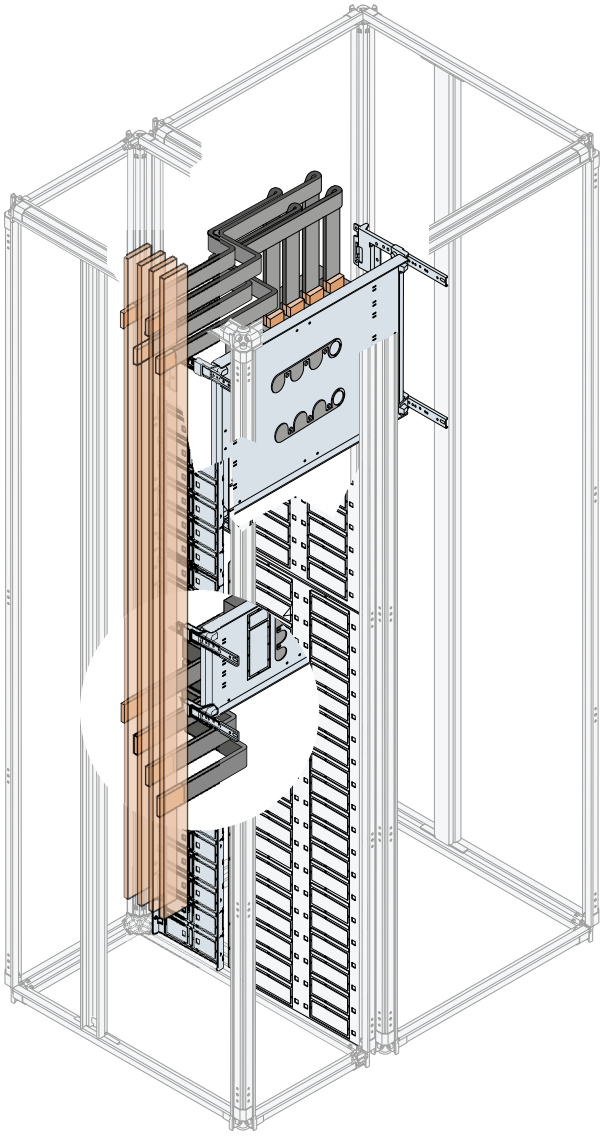
Fig.1



Segregation Form 2b/4a

It is advisable to include a compartment for the connections above vertical circuit-breakers with Front connections.
If prefabricated connections are used: a 200 mm compartment above vertical T6 circuit-breakers is required, while the compartment above vertical T7 and E1.2 circuit-breakers should be 350 mm.
To ensure accessibility from the front, it is advisable to:
use scaled busbar holders (maximum busbar section 50 mm in internal busbar compartments W=200mm); if the busbar section is more than 50 mm, it is advisable to use a W=400mm internal or W=300/400mm external side cable compartment, use shaped busbars

Fig.2



Segregation Form 2b/4a

In the case of vertical circuit-breakers with Rear connections T7 W - Emax 2 (except E1.2 F), it is advisable to use segregations such as indicated in fig. 3-4.
A compartment allowing accessibility from the front should be included above horizontal busbars.

Fig.3

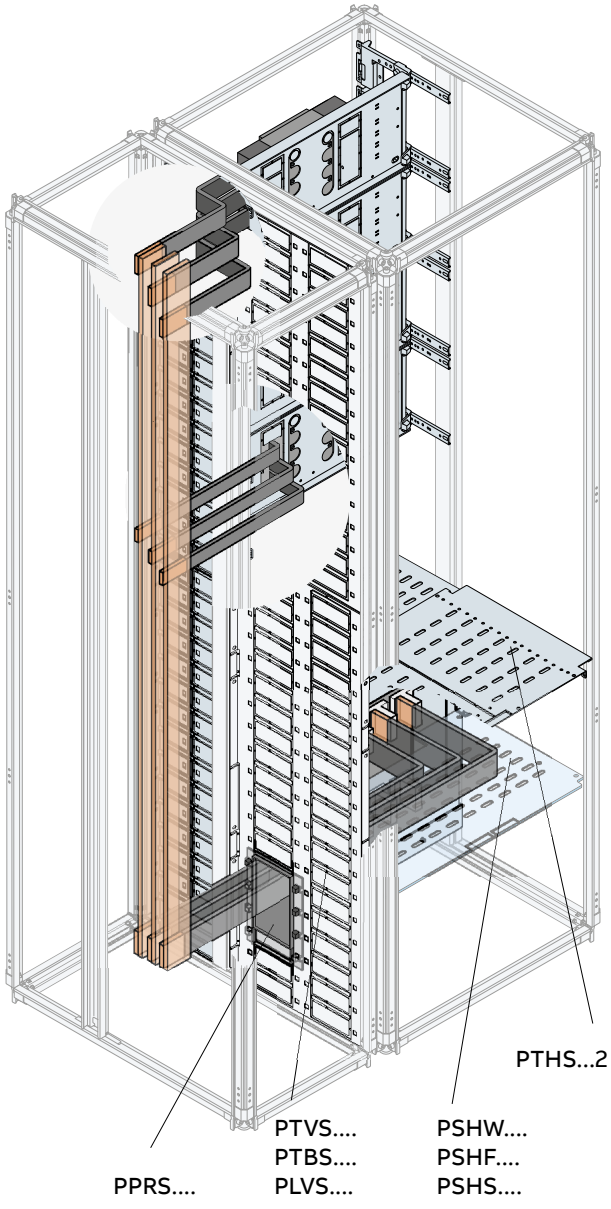
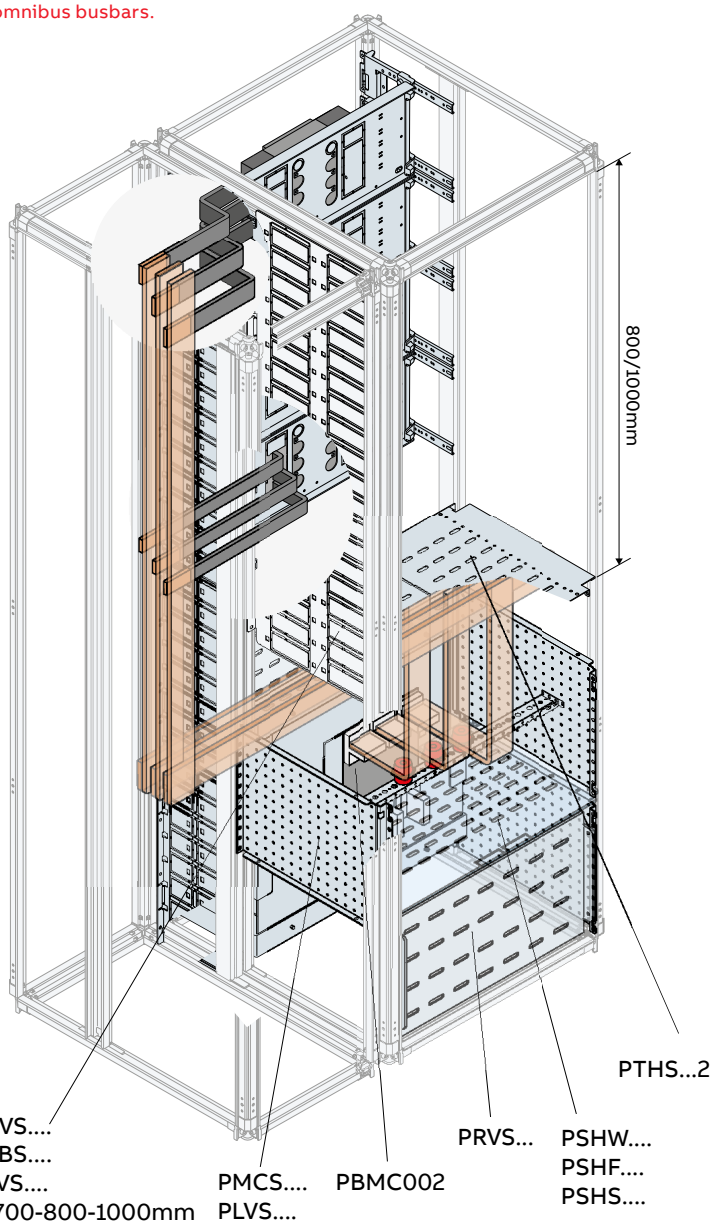


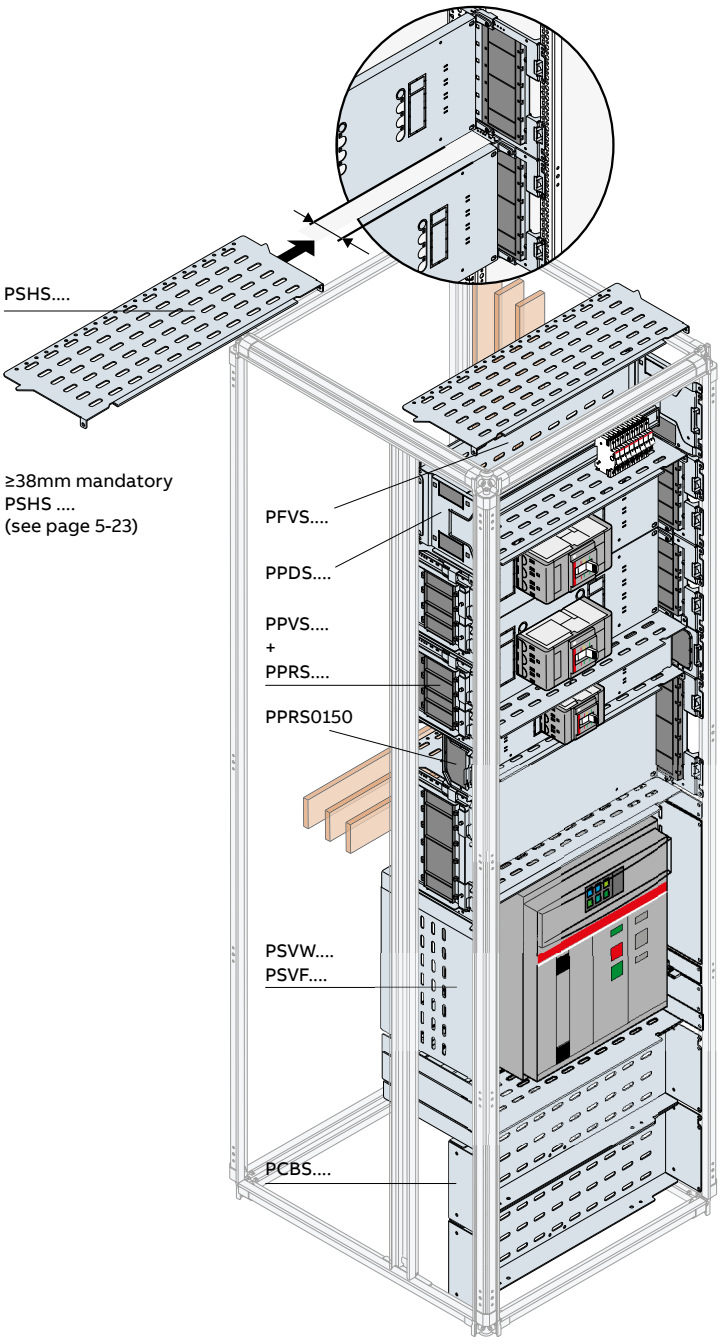
Fig.4
For details, see chapter 7 - Examples of connection from circuit breaker to omnibus busbars.



Internal kits
Examples of use

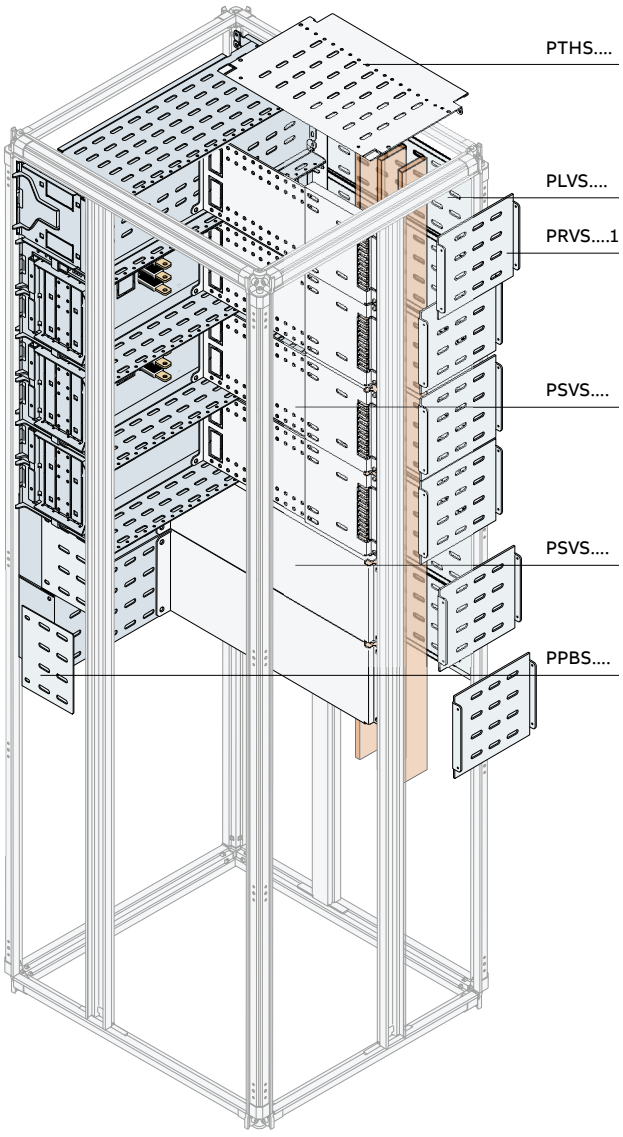
Segregation Form 2a/3a

Fig.5



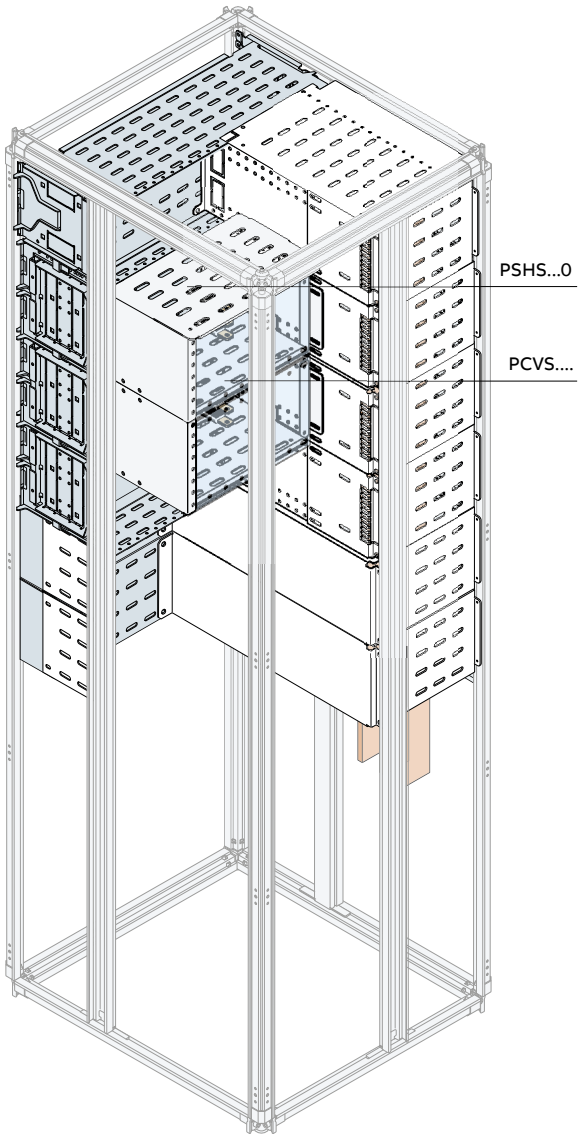
Segregation Form 3b
Vertical busbars.

Fig.6



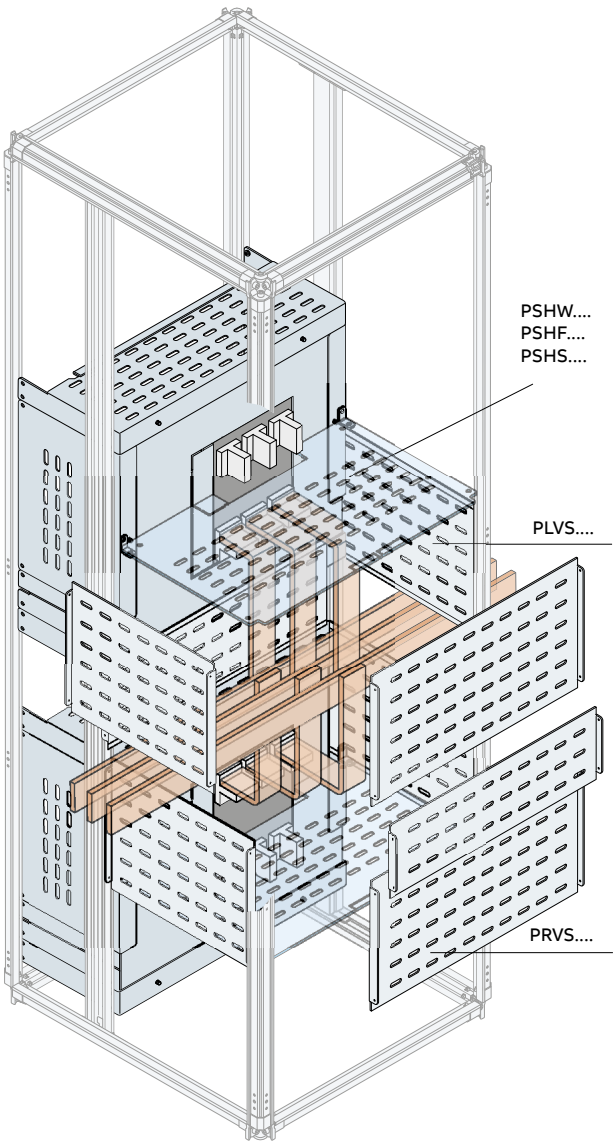
Segregation Form 4b
Vertical busbars.

Fig.7



Segregation Form 3b
Horizontal busbars.

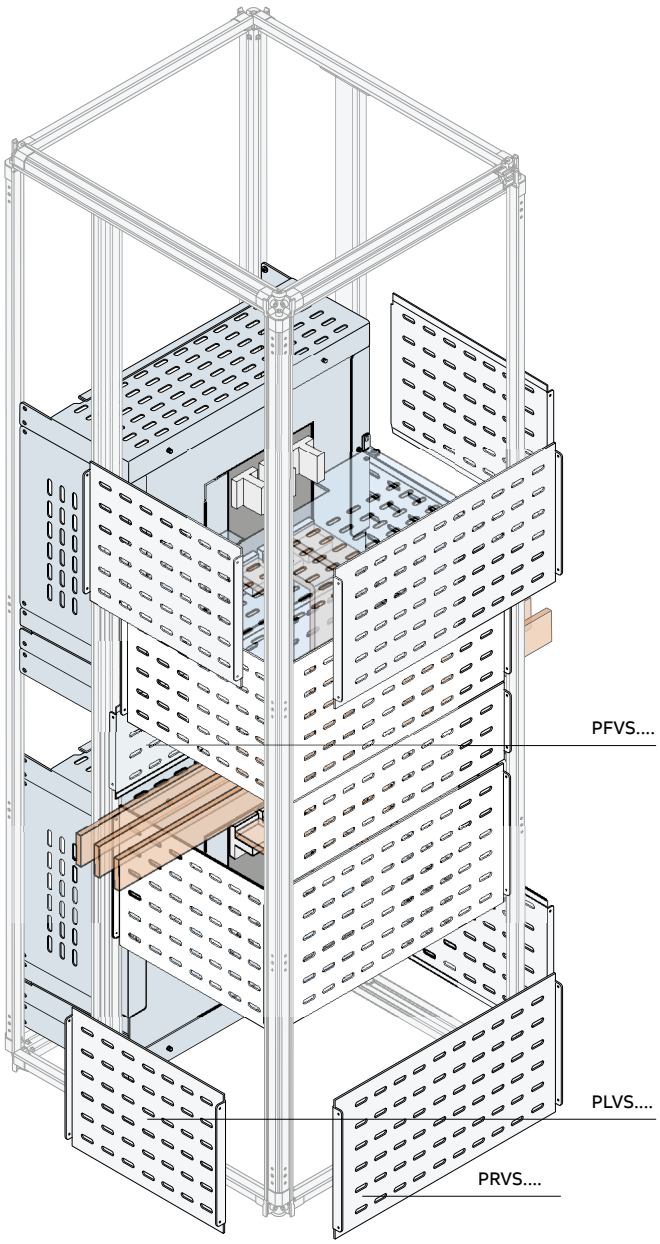
Fig.8



Internal kits
Examples of use

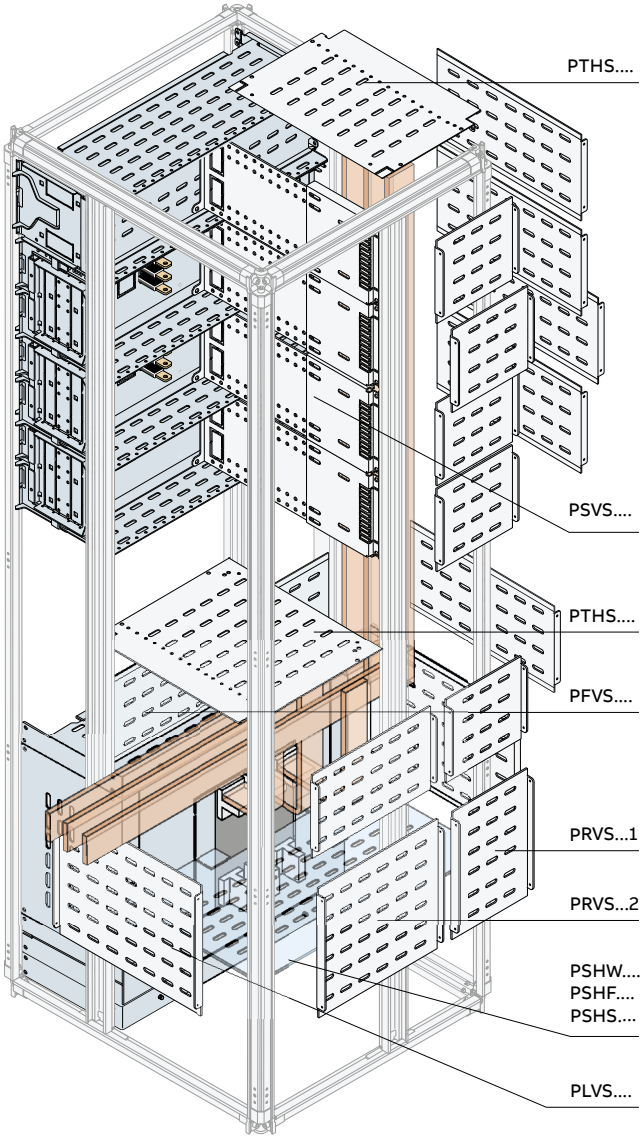
Segregation Form 4b
Horizontal busbars.

Fig.9



Segregation Form 3b
Horizontal and vertical busbars.

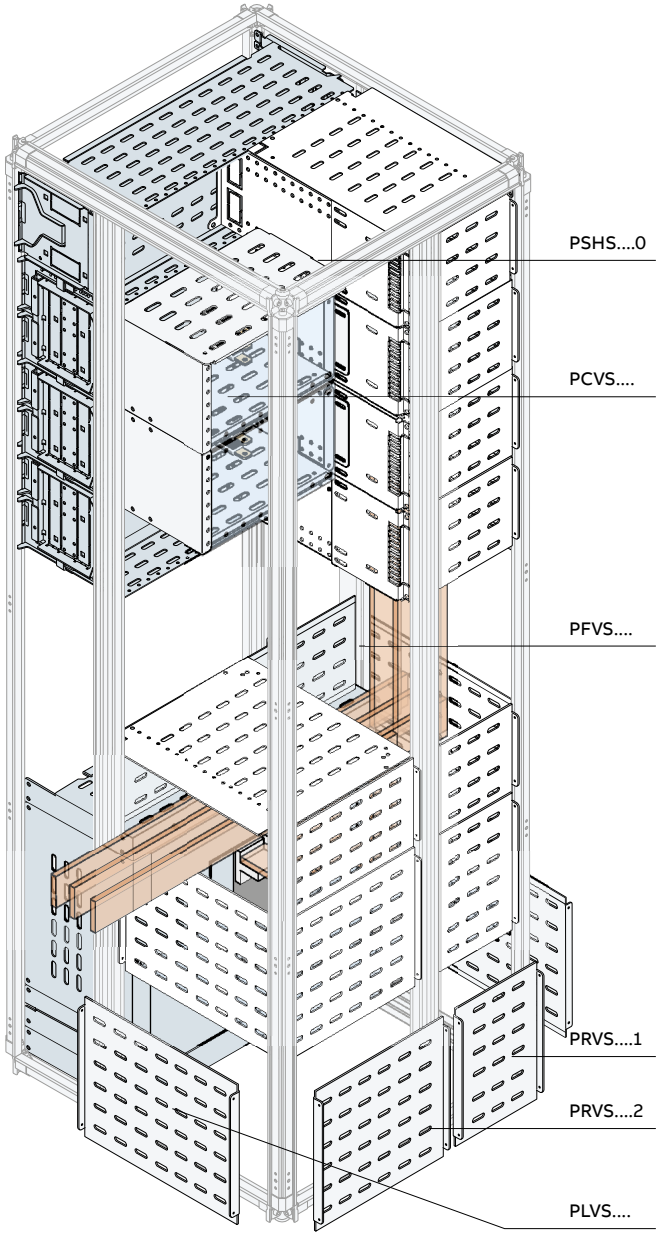
Fig.10



Segregation Form 4b

Horizontal and vertical busbars.

Fig.11

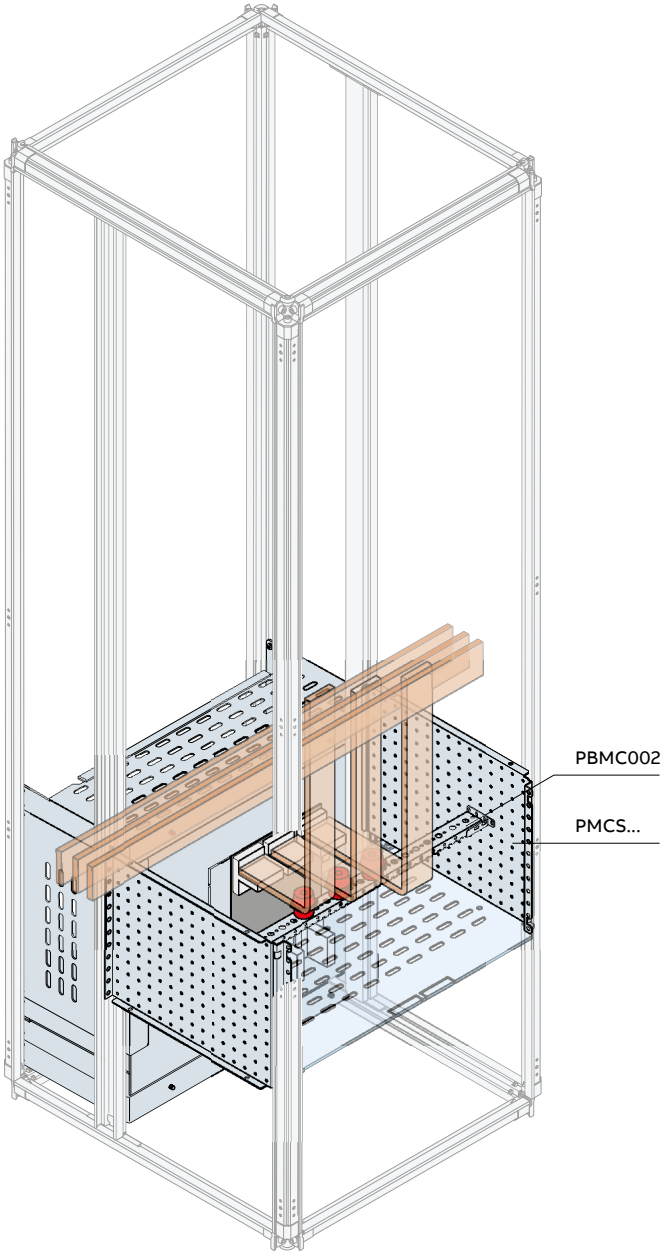


Connection module

To be used for fixing the connections between the terminals of vertical circuit-breakers and omnibus busbars. Where used, they substitute side segregations PLVS....

Fig.12

For details, see chapter 7 - Examples of connection from circuit breaker to omnibus busbars.



Internal kits

Quick selection guides

Tmax XT1

HORIZONTAL INSTALLATION

				W=400mm															W=600mm						
					Segregation form															Segregation form					
					F 2a - 3a*		F 3b							F 4b						F 2a - 3a*	F 3b				
														Rear cubicle											
														Mounting position											
														P0/P1	P0	P1	P2**								
							D (mm)					D (mm)		Breaker terminals							D (mm)				
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator 500	Terminals separator 700	Terminals separator 900	Rear segregation bars side	Side rear segregation 500	Side rear segregation 700	Side rear segregation 900	Front	Rear				Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator 500	Terminals separator 700	Terminals separator 900	Rear segregation bars side
Front/Rear terminals																									
150	3/4	F	1	PHBX1401	2xPPRS0150	PSHS1904													PHCX1401	2xPPRS0150	PSHS1906				
	3/4	F - RHD	1	PHBX1405															PHCX1405						
200	3/4	F	1	PHBX1101	PPVS2200	PSHS1904	PSVS2050	PSVS2070	PSVS2090	PRVS2041	PLBS2052	PLBS2072	PLBS2092	PCVS0204	PCVS0204	PCVS1204	PCVS2204		PHCX1101	PPVS2200	PSHS1906	PSVS2050	PSVS2070	PSVS2090	PRVS2061
	3/4	F - MO	1	PHBX1404												PCVS1204	PCVS2204		PHCX1404						
	3	F - RC	1	PHBX1323											PCVS0204	PCVS1204	PCVS2204		PHCX1323						
	4	F - RC	1	PHBX1423											PCVS0204	PCVS1204	PCVS2204		PHCX1423						
	3/4	F - RHD	1	PHBX1105												PCVS1204	PCVS2204		PHCX1105						
	3/4	P	1	PHBX1407											PCVS0204	PCVS1204	PCVS2204		PHCX1407						
	3/4	P - RHD	1	PHBX1427												PCVS1204	PCVS2204		PHCX1427						
	3/4	P - MO (1)	1	PHBX1409 (2)			PSVS2051	PSVS2071	PSVS2091								PCVS2204		PHCX1409			PSVS2051	PSVS2071	PSVS2091	
500	3/4	F - I	2	PHBX1422	PPVS2500	PSHS1904													PHCX1422	PPVS2500	PSHS1906				
	3/4	F - I - MO (1)	2	PHBX1424 (2)															PHCX1424						
	3/4	P - I	2	PHBX1422															PHCX1422						
	3/4	P - I - MO (1)	2	PHBX1424 (2)															PHCX1424						

Attention: for interlocked circuit breakers kits the interlocking plate is not included.

VERTICAL INSTALLATION

				W=400mm										W=600mm		
					Segregation form										Segregation form	
					F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)								F 2a - 3a*	
										Vertical rear segregation			Vertical side segregation					
											With upright							
							Terminals separator D (mm)						D (mm)					
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900	Without upright	Bars side	Exits side	500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf
Front/Rear terminals																		
300	3/4	F	1	PVBX1401	PPVS2300	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS1582	PRVS1541		PLVS1552	PLVS1572	PLVS1592	PVCX1401	PPVS2300	PSHS1906
	3/4	F - MO	1	PVBX1404												PVCX1404		
	4	F - RC	1	PVBX1423												PVCX1423		
	3/4	F - RHD	1	PVBX1405												PVCX1405		
	3/4	P	1	PVBX1407												PVCX1407		
	3/4	P - RHD	1	PVBX1427												PVCX1427		
	3/4	P - MO (1)	1	PVBX1409 (2)												PVCX1409 (2)		
	3/4	P	3	-												PVCX1707		
	3	F	**4**	-												PVCX1301		
	3/4	P	4	-												-		

(1) kit with recessed mounting plate.

(2) Only rear terminal.

* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.

** Alternatively, can be ordered cubicle P3; for details see page 5-50.

								W=800													
									Segregation form												
			F 4b						F 2a - 3a*	F 3b								F 4b			
			Rear cubicle															Rear cubicle			
Side rear segregation			Mounting position												Side rear segregation			Mounting position			
			P0/P1	P0	P1	P2**												P0/P1	P0	P1	P2**
D (mm)			Breaker terminals							Terminals separator					D (mm)			Breaker terminals			
500	700	900	Front	Rear			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900	Rear segregation bars side	500	700	900	Front	Rear			
							PHDX1301	2xPPRS0150	PSHS1908												
							-														
PLVS2052	PLVS2072	PLVS2092	PCVS0206	PCVS0206	PCVS1206	PCVS2206	PHDX1401	PPVS2200	PSHS1908	PSVS2050	PSVS2070	PSVS2090	PRVS2081	PLVS2052	PLVS2072	PLVS2092	PCVS0208	PCVS0208	PCVS1208	PCVS2208	
			PCVS0206		PCVS1206	PCVS2206	PHDX1404										PCVS0208		PCVS1208	PCVS2208	
			PCVS0206	PCVS0206	PCVS1206	PCVS2206	-														
			PCVS0206	PCVS0206	PCVS1206	PCVS2206	PHDX1423										PCVS0208	PCVS0208	PCVS1208	PCVS2208	
			PCVS0206		PCVS1206	PCVS2206	PHDX1105										PCVS0208		PCVS1208	PCVS2208	
				PCVS0206	PCVS1206	PCVS2206	PHDX1407											PCVS0208	PCVS1208	PCVS2208	
					PCVS1206	PCVS2206	PHDX1427												PCVS1208	PCVS2208	
						PCVS2206	PHDX1409			PSVS2051	PSVS2071	PSVS2091								PCVS2208	
							PHDX1422	PPVS2500	PSHS1908												
							PHDX1403														
							PHDX1422														
							PHDX1403														

									W=800mm												
			F 3b (for form 4b order the double of the vertical rear and side segregations)							Segregation form			F 3b (for form 4b order the double of the vertical rear and side segregations)								
				Vertical rear segregation			Vertical side segregation			F 2a - 3a*							Vertical rear segregation		Vertical side segregation		
Terminals separator					With upright								Terminals separator					With upright			
D (mm)							D (mm)						D (mm)							D (mm)		
500	700	900	Without upright	Bars side	Exits side	500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900	Without upright	Bars side	Exits side	500	700	900
PSHS6050	PSHS6070	PSHS6090	PRVS1560	PRVS1561	PRVS1562	PLVS1552	PLVS1572	PLVS1592	-												
									-												
									-												
									-												
									-												
									-												
									-												
									-												
									PVDX1807	PPVS2300	PSHS1908										

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax XT2
HORIZONTAL INSTALLATION

				W=400mm														W=600mm							
					Segregation form														Segregation form						
					F 2a - 3a*		F 3b							F 4b					F 2a - 3a*		F 3b				
														Rear cubicle											
														Mounting position											
														P0/P1	P0	P1	P2**								
							D (mm)					D (mm)		Breaker terminals							D (mm)				
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side	Side rear segregation			Front	Rear			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator			Segreg. post. Bars side	
							500	700	900		500	700	900								500	700	900		
Front/Rear terminals																									
150	3	F	1	PHBX2301	2xPPRS0150	PSHS1904												PHCX2301	2xPPRS0150	PSHS1906					
200	3/4	F	1	PHBX2401	PPVS2200	PSHS1904	PSVS2050	PSVS2070	PSVS2090	PRVS2041	PLVS2052	PLVS2072	PLVS2092	PCVS0206	PCVS0206	PCVS1204	PCVS2204	PHCX2401	PPVS2200	PSHS1906	PSVS2050	PSVS2070	PSVS2070	PRVS2061	
	3/4	F - MO	1	PHBX2404										PCVS0206		PCVS1204	PCVS2204	PHCX2404							
	4	F - RC	1	PHBX2423										PCVS0206	PCVS0206	PCVS1204	PCVS2204	PHCX2423							
	3/4	F - RHD	1	PHBX2405										PCVS0206		PCVS1204	PCVS2204	PHCX2405							
	3/4	P	1	PHBX2407												PCVS1204	PCVS2204	PHCX2407							
	3/4	P - RHD	1	PHBX2427												PCVS1204	PCVS2204	PHCX2427							
	3/4	P - MO [1] [2]	1	PHBX2409			PSVS2051	PSVS2071	PSVS2091								PCVS2204	PHCX2409			PSVS2051	PSVS2071	PSVS2091		
	3	W	1	PHBX2310												PCVS1204	PCVS2204	PHCX2310			PSVS2050	PSVS2070	PSVS2090		
	3	W - RHD	1	PHBX2300			PSVS2050	PSVS2070	PSVS2090							PCVS1204	PCVS2204	PHCX2300							
	3	W - MO [1]	1	PHBX2312 [2]			PSVS2051	PSVS2071	PSVS2091								PCVS2204	PHCX2312 [2]			PSVS2051	PSVS2071	PSVS2091		
250	4	P - RC	1	PHBX2428	PPVS2250	PSHS1904	PSVS2550	PSVS2570	PSVS2590	PRVS2541	PLVS2552	PLVS2572	PLVS2592			PCVS1254	PCVS2254	PHCX2428	PPVS2250	PSHS1906	PSVS2550	PSVS2570	PSVS2590	PRVS2561	
	3/4	W	1	PHBX2410												PCVS1254	PCVS2254	PHCX2410							
	4	W - RC	1	-														PHCX2417							
	3/4	W - RHD	1	PHBX2400												PCVS1254	PCVS2254	PHCX2400							
	3/4	W - MO [1]	1	PHBX2412 [2]			PSVS2551	PSVS2571	PSVS2591								PCVS2254	PHCX2412 [2]			PSVS2551	PSVS2571	PSVS2591		
500	3/4	F - I	2	PHBX2402	PPVS2500	PSHS1904												PHCX2402	PPVS2500	PSHS1906					
	3/4	F - I - MO [1]	2	PHBX2424 [2]														PHCX2424 [2]							
	3/4	P - I [1]	2	PHBX2431 [2]														PHCX2431 [2]							
	3/4	P - I - MO [1]	2	PHBX2424 [2]														PHCX2424 [2]							
	3/4	W - I [1]	2	PHBX2425 [2]														PHCX2425 [2]							
	3/4	W - I - MO [1]	2	PHBX2425 [2]														PHCX2425 [2]							

Attention: for interlocked circuit breakers kits the interlocking plate is not included.

[1] kit with recessed mounting plate.
[2] Only rear terminals.
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.
** Alternatively, can be ordered cubicle P3; for details see page 5-50.

								W=800														
									Segregation form													
			F 4b						F 2a - 3a*		F 3b								F 4b			
			Rear cubicle																Rear cubicle			
Segreg. post. Bars side			Mounting position					Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side	Segregazione posteriore laterale				Mounting position			
			P0/P1	P0	P1	P2**													P0/P1	P0	P1	P2**
D (mm)			Breaker terminals								D (mm)				D (mm)				Breaker terminals			
500	700	900	Front	Rear							500	700	900		500	700	900		Front	Rear		
	PLVS2052	PLVS2072	PLVS2092	PCVS0206	PCVS0206	PCVS1206	PCVS2206	PHDX2401	PPVS2200	PSHS1908	PSVS2050	PSVS2070	PSVS2090	PRVS2081	PLVS2052	PLVS2072	PLVS2092		PCVS0208	PCVS0208	PCVS1208	PCVS2208
				PCVS0206		PCVS1206	PCVS2206	PHDX2404											PCVS0208		PCVS1208	PCVS2208
				PCVS0206	PCVS0206	PCVS1206	PCVS2206	PHDX2423											PCVS0208	PCVS0208	PCVS1208	PCVS2208
				PCVS0206		PCVS1206	PCVS2206	PHDX2405											PCVS0208		PCVS1208	PCVS2208
						PCVS1206	PCVS2206	PHDX2407													PCVS1208	PCVS2208
						PCVS1206	PCVS2206	PHDX2427													PCVS1208	PCVS2208
							PCVS2206	PHDX2409			PSVS2051	PSVS2071	PSVS2091									PCVS2208
						PCVS1206	PCVS2206	-														
						PCVS1206	PCVS2206	-														
							PCVS2206	-														
	PLVS2552	PLVS2572	PLVS2592			PCVS1256	PCVS2256	PHDX2428	PPVS2250	PSHS1908	PSVS2550	PSVS2570	PSVS2590	PRVS2581	PLVS2552	PLVS2572	PLVS2592				PCVS1258	PCVS2258
						PCVS1256	PCVS2256	PHDX2410													PCVS1258	PCVS2258
						PCVS1256	PCVS2256	PHDX2417													PCVS1258	PCVS2258
						PCVS1256	PCVS2256	PHDX2400													PCVS1258	PCVS2258
							PCVS2256	PHDX2412 (2)			PSVS2551	PSVS2571	PSVS2591									
								PHDX2402	PPVS2500	PSHS1908												
								PHDX2403 (2)														
								PHDX2432 (2)														
								-														
								-														
								PHDX2425 (2)														

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax XT2
VERTICAL INSTALLATION

				W=400mm												W=600mm		
					Segregation form												Segregation form	
					F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*	
										Vertical rear segregation			Vertical side segregation					
											With upright							
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator D (mm) 500	700	900	Without upright	Bars side	Exits side	D (mm) 500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf
Front/Rear terminals																		
300	3/4	F	3	-	PPVS2300	PSHS1904										PVCX2701	PPVS2300	PSHS1906
	3/4	F	4	-												-		
	3/4	F	1	PVBX2401			PSHS4050	PSHS4070	PSHS4090	PRVS1582	PRVS1541		PLVS1552	PLVS1572	PLVS1592	PVCX2401		
	3/4	F - RHD	1	PVBX2405												PVCX2405		
	3/4	F - MO	1	PVBX2404												PVCX2404		
	3/4	P	2	-												PVCX2706		
	3/4	P	3	-												PVCX2707		
	3/4	P	4	-												-		
	3/4	P	1	PVBX2407			PSHS4050	PSHS4070	PSHS4090	PRVS1582	PRVS1541		PLVS1552	PLVS1572	PLVS1592	PVCX2407		
	3/4	P - RHD	1	PVBX2427												PVCX2427		
	3/4	P - MO [1]	1	PVBX2409 [2]												PVCX2409 [2]		
	3/4	W	1	PVBX2410			PSHS4050	PSHS4070	PSHS4090	PRVS1582	PRVS1541		PLVS1552	PLVS1572	PLVS1592	PVCX2410		
	3/4	W - RHD	1	PVBX2400												PVCX2400		
	3/4	W - MO [1]	1	PVBX2412 [2]												PVCX2412 [2]		
350	4	F - RC	1	PVBX2423	PPVS2350	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS1740	PRVS1741		PLVS1752	PLVS1772	PLVS1792	PVCX2423	PPVS2350	PSHS1906
	4	W - RC	1	PVBX2417												PVCX2417		

[1] kit with recessed mounting plate.
[2] Only rear terminals.
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.

										W=800mm												
											Segregation form											
	F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)									
	Terminals separator			Vertical rear segregation			Vertical side segregation						Terminals separator			Vertical rear segregation			Vertical side segregation		
					With upright												With upright				
	D (mm)			Without upright			D (mm)			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	D (mm)			Without upright			D (mm)		
	500	700	900		Bars side	Exits side	500	700	900				500	700	900		Bars side	Exits side	500	700	900	
										-												
										PVDX2801	PPVS2300	PSHS1908										
	PSHS6050	PSHS6070	PSHS6090	PRVS1560	PRVS1561	PRVS1562	PLVS1552	PLVS1572	PLVS1592	-												
										-												
										-												
										-												
										PVDX2807	PPVS2300	PSHS1908										
	PSHS6050	PSHS6070	PSHS6090	PRVS1560	PRVS1561	PRVS1562	PLVS1552	PLVS1572	PLVS1592	-												
										-												
										-												
	PSHS6050	PSHS6070	PSHS6090	PRVS1560	PRVS1561	PRVS1562	PLVS1552	PLVS1572	PLVS1592	-												
										-												
										-												
	PSHS6050	PSHS6070	PSHS6090	PRVS1760	PRVS1761	PRVS1762	PLVS1752	PLVS1772	PLVS1792	-												
										-												

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax XT3
HORIZONTAL INSTALLATION

				W=400mm														W=600mm						
					Segregation form														Segregation form					
					F 2a - 3a*		F 3b							F 4b					F 2a - 3a*		F 3b			
														Rear cubicle									
														Mounting position									
														P0/P1	P0	P1	P2**						
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Kit base (Segregation form1)	Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side	Side rear segregation			Breaker terminals				Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side
							D (mm)				D (mm)			Front	Rear						D (mm)			
							500	700	900		500	700	900								500	700	900	
Front/Rear terminals																								
150	3	F	1	PHBX3301 (2)	2xPPRS0150	PSHS1904												PHCX3301	2xPPRS0150	PSHS1906				
	3	F - RHD	1	PHBX3305														PHCX3305						
200	3/4	F	1	PHBX3401 (2)	PPVS2200	PSHS1904	PSVS2050	PSVS2070	PSVS2090	PRVS2041	PLVS2052	PLVS2072	PLVS2092	PCVS0204	PCVS0204	PCVS1204	PCVS2204	PHCX3401	PPVS2200	PSHS1906	PSVS2050	PSVS2070	PSVS2090	PRVS2061
	3/4	F - MO	1	PHBX3404										PCVS0204		PCVS1204	PCVS2204	PHCX3404						
	3/4	F - RHD	1	PHBX3405										PCVS0204		PCVS1204	PCVS2204	PHCX3405						
	3/4	P	1	PHBX3407												PCVS1204	PCVS2204	PHCX3407						
	3/4	P - RHD	1	PHBX3427												PCVS1204	PCVS2204	PHCX3427						
	3/4	P - MO (1)	1	PHBX3409			PSVS2051	PSVS2071	PSVS2091								PCVS2204	PHCX3409			PSVS2051	PSVS2071	PSVS2091	
250	4	F - RC	1	PHBX3423 (2)	PPVS2250	PSHS1904	PSVS2550	PSVS2570	PSVS2590	PRVS2541	PLVS2552	PLVS2572	PLVS2592	PCVS0254	PCVS0254	PCVS1254	PCVS2254	PHCX3423	PPVS2250	PSHS1906	PSVS2550	PSVS2570	PSVS2590	PRVS2561
500	3/4	F - I	2	PHBX3422	PPVS2500	PSHS1904												PHCX3422	PPVS2500	PSHS1906				
	3/4	F - I - MO (1)	2	PHBX3424 (3)														PHCX3424 (3)						
	3/4	P - I	2	PHBX3422														PHCX3422						
	3/4	P - I - MO (1)	2	PHBX3424 (3)														PHCX3424 (3)						

Attention: for interlocked circuit breakers kits the interlocking plate is not included.

(1) kit with recessed mounting plate.
(2) Not compatible with high terminal covers. Front only in form 1.
(3) Only rear terminals.
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.
** Alternatively, can be ordered cubicle P3; for details see page 5-50.

								W=800													
									Segregation form												
			F 4b						F 2a - 3a*		F 3b						F 4b			
			Rear cubicle														Rear cubicle			
Side rear segregation			Mounting position												Side rear segregation			Mounting position			
			P0/P1	P0	P1	P2**											P0/P1	P0	P1	P2**
D (mm)			Breaker terminals								D (mm)				D (mm)			Breaker terminals			
500	700	900	Front	Rear			Base kit (segregation form 1)		Cell side closing	Universal horizontal shelf	500	700	900	Rear segregation bars side	500	700	900	Front	Rear		
							-														
							-														
	PLVS2052	PLVS2072	PLVS2092	PCVS0206	PCVS0206	PCVS1206	PCVS2206	PHDX3401	PPVS2200	PSHS1908	PSVS2050	PSVS2070	PSVS2090	PRVS2081	PLVS2052	PLVS2072	PLVS2092	PCVS0208	PCVS0208	PCVS1208	PCVS2208
				PCVS0206		PCVS1206	PCVS2206	PHDX3404										PCVS0208		PCVS1208	PCVS2208
				PCVS0206		PCVS1206	PCVS2206	PHDX3405										PCVS0208		PCVS1208	PCVS2208
						PCVS1206	PCVS2206	PHDX3407												PCVS1208	PCVS2208
						PCVS1206	PCVS2206	PHDX3427												PCVS1208	PCVS2208
							PCVS2206	PHDX3409			PSVS2051	PSVS2071	PSVS2091								PCVS2208
	PLVS2552	PLVS2572	PLVS2592	PCVS0256	PCVS0256	PCVS1256	PCVS2256	PHDX3423	PPVS2250	PSHS1908	PSVS2550	PSVS2570	PSVS2590	PRVS2581	PLVS2552	PLVS2272	PLVS2592	PCVS0258	PCVS0258	PCVS1258	PCVS2258
								PHDX3402	PPVS2500	PSHS1908											
								PHDX3403 (3)													
								-													
								-													

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax XT3
VERTICAL INSTALLATION

				W=400mm												W=600mm			
					Segregation form												Segregation form		
					F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*		
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator D (mm) 500	700	900	Vertical rear segregation Without upright	With upright Bars side	With upright Exits side	Vertical side segregation D (mm) 500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	
Front/Rear terminals																			
300	3/4	F	1	PVBX3401	PPVS2300	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS1582	PRVS1541		PLVS1552	PLVS1572	PLVS1592	PVCX3401	PPVS2300	PSHS1906	
	3/4	F - RHD	1	PVBX3405												PVCX3405			
	3/4	F - MO	1	PVBX3404												PVCX3404			
	3/4	P	1	PVBX3407												PVCX3407			
	3/4	P	2	-												PVCX3607			
	3/4	P	3	-												-			
	3	P	3	-												PVCX3707			
	4	P	4	-												-			
	3/4	P - RHD	1	PVBX3427												PVCX3427			
	3/4	P - MO [1]	1	PVBX3409 [3]												PVCX3409 [3]			
400	4	F - RC	1	PVBX3423	PPVS2400	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS2040	PRVS2041		PLVS2052	PLVS2072	PLVS2092	PVCX3423	PPVS2400	PSHS1906	

[1] kit with recessed mounting plate.
[2] Not compatible with high terminal covers. Front only in form 1.
[3] Kit with recessed mounting plate. Only rear terminals.
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.

										W=800mm											
											Segregation form										
	F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)								
	Terminals separator			Vertical rear segregation			Vertical side segregation			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator			Vertical rear segregation			Vertical side segregation		
				Without upright	With upright											Without upright	With upright				
	D (mm)						D (mm)						D (mm)						D (mm)		
	500	700	900		Bars side	Exits side	500	700	900				500	700	900		Bars side	Exits side	500	700	900
	PSHS6050	PSHS6070	PSHS6090	PRVS1560	PRVS1561	PRVS1562	PLVS1562	PLVS1572	PLVS1592	-	PPVS2300	PSHS1908									
										-											
										-											
										-											
										-											
										PVDX3707											
										-											
										PVDX3807											
										-											
										-											
	PSHS6050	PSHS6070	PSHS6090	PRVS2060	PRVS2061	PRVS2062	PLVS2052	PLVS2072	PLVS2092	-											

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax XT4
HORIZONTAL INSTALLATION

				W=400mm															W=600mm						
					Segregation form															Segregation form					
					F 2a - 3a*		F 3b							F 4b						F 2a - 3a*	F 3b				
														Rear cubicle											
														Mounting position											
														P0/P1	P0	P1	P2**								
							D (mm)					D (mm)		Breaker terminals							D (mm)				
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Ripiano univ. orizzontale	500	700	900	Rear segregation bars side	500	700	900	Front	Rear			Base kit (segregation form 1)	Cell side closing	Ripiano univ. orizzontale	500	700	900	Rear segregation bars side	Side rear segregation	Terminals separator
Front/Rear terminals																									
150	3	F	1	PHBX4301 [2]	2xPPRS0150	PSHS1904												PHCX4301	2xPPRS0150	PSHS1906					
200	3/4	F	1	PHBX4401 [2]	PPVS2200	PSHS1904	PSVS2050	PSVS2070	PSVS2090	PRVS2041	PLVS2052	PLVS2072	PLVS2092	PCVS0204	PCVS0204	PCVS1204	PCVS2204	PHCX4401	PPVS2200	PSHS1906	PSVS2050	PSVS2070	PSVS2090	PRVS2061	
	3/4	F - MO	1	PHBX4404										PCVS0204		PCVS1204	PCVS2204	PHCX4404							
	4	F - RC	1	PHBX4423 [2]										PCVS0204	PCVS0204	PCVS1204	PCVS2204	PHCX4423							
	3/4	F - RHD	1	PHBX4405										PCVS0204		PCVS1204	PCVS2204	PHCX4405							
	3/4	P	1	PHBX4407												PCVS1204	PCVS2204	PHCX4407							
	3/4	P - RHD	1	PHBX4427												PCVS1204	PCVS2204	PHCX4427							
	3/4	P - MO [1]	1	PHBX4409 [2]			PSVS2051	PSVS2071	PSVS2091								PCVS2204	PHCX4409 [3]			PSVS2051	PSVS2071	PSVS2091		
250	4	P - RC	1	PHBX4428	PPVS2250	PSHS1904	PSVS2550	PSVS2570	PSVS2590	PRVS2541	PLVS2552	PLVS2572	PLVS2592			PCVS1254	PCVS2254	PHCX4428	PPVS2250	PSHS1906	PSVS2550	PSVS2570	PSVS2590	PRVS2561	
	3/4	W	1	PHBX4410												PCVS1254	PCVS2254	PHCX4410							
	4	W - RC	1															PHCX4417							
	3/4	W - RHD	1	PHBX4400												PCVS1254	PCVS2254	PHCX4400							
	3/4	W - MO [1]	1	PHBX4412 [3]			PSVS2551	PSVS2571	PSVS2591								PCVS2254	PHCX4412 [3]			PSVS2551	PSVS2571	PSVS2591		
500	3/4	F - I	2	PHBX4402	PPVS2500	PSHS1904												PHCX4402	PPVS2500	PSHS1906					
	3/4	F - I-MO [1]	2	PHBX4424 [3]														PHCX4424 [3]							
	3/4	P - I [1]	2	PHBX4431 [3]														PHCX4431 [3]							
	3/4	P - I-MO [1]	2	PHBX4424 [3]														PHCX4424 [3]							
	3/4	W - I [1]	2	PHBX4425 [3]														PHCX4425 [3]							
	3/4	W - I-MO [1]	2	PHBX4425 [3]														PHCX4425 [3]							

Attention: for interlocked circuit breakers kits the interlocking plate is not included.

[1] kit with recessed mounting plate.
[2] Not compatible with high terminal covers. Front only in form 1.
[3] Only rear terminals.
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.
** Alternatively, can be ordered cubicle P3; for details see page 5-50.

								W=800																
									Segregation form															
			F 4b						F 2a - 3a*		F 3b									F 4b				
			Rear cubicle																	Rear cubicle				
	Side rear segregation		Mounting position											Side rear segregation				Mounting position					
			P0/P1	P0	P1	P2**												P0/P1	P0	P1	P2**			
	D (mm)		Breaker terminals								D (mm)							Breaker terminals						
	500	700	900	Front	Rear			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900	Rear segregation bars side	500	700	900	Front	Rear					
	PLVS2052	PLVS2072	PLVS2092	PCVS0206	PCVS0206	PCVS1206	PCVS2206	PHDX4401	PPVS2200	PSHS1908	PSVS2050	PSVS2070	PSVS2090	PRVS2081	PLVS2052	PLVS2072	PLVS2092	PCVS0208	PCVS0208	PCVS1208	PCVS2208			
				PCVS0206		PCVS1206	PCVS2206	PHDX4404										PCVS0208		PCVS1208	PCVS2208			
				PCVS0206	PCVS0206	PCVS1206	PCVS2206	PHDX4423										PCVS0208	PCVS0208	PCVS1208	PCVS2208			
				PCVS0206		PCVS1206	PCVS2206	PHDX4405										PCVS0208		PCVS1208	PCVS2208			
						PCVS1206	PCVS2206	PHDX4407												PCVS1208	PCVS2208			
						PCVS1206	PCVS2206	PHDX4427												PCVS1208	PCVS2208			
							PCVS2206	PHDX4409 (3)			PSVS2051	PSVS2071	PSVS2091								PCVS2208			
	PLVS2552	PLVS2572	PLVS2592			PCVS1256	PCVS2256	PHDX4428	PPVS2250	PSHS1908	PSVS2550	PSVS2570	PSVS2590	PRVS2581	PLVS2552	PLVS2572	PLVS2592			PCVS1258	PCVS2258			
						PCVS1256	PCVS2256	PHDX4410												PCVS1258	PCVS2258			
						PCVS1256	PCVS2256	PHDX4417																
						PCVS1256	PCVS2256	PHDX4400																
							PCVS2256	PHDX4412 (3)			PSVS2551	PSVS2571	PSVS2591											
								PHDX4402	PPVS2500	PSHS1908														
								PHDX4403 (3)																
								PHDX4422 (3)																
								-																
								-																
								PHDX4425 (3)																

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax XT4
VERTICAL INSTALLATION

				W=400mm												W=600mm			
					Segregation form												Segregation form		
					F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*		
										Vertical rear segregation			Vertical side segregation						
											With upright								
							D (mm)						D (mm)						
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator 500	700	900	Without upright	Bars side	Exits side	500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	
Front/Rear terminals																			
300	3/4	F	2	-	PPVS2300	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS1582	PRVS1541		PLVS1552	PLVS1572	PLVS1592	PVCX4601	PPVS2300	PSHS1906	
	3/4	F	3	-												-			
	3	F	3	-												PVCX4701			
	3	F	4	-												-			
	3/4	F	1	PVBX4401												PVCX4401			
	3/4	F - RHD	1	PVBX4405												PVCX4405			
	3/4	F - MO	1	PVBX4404												PVCX4404			
	3	P	4	-												-			
350	3/4	P	2	-	PPVS2350	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS1740	PRVS1741		PLVS1752	PLVS1772	PLVS1792	PVCX4607	PPVS2350	PSHS1906	
	3/4	P	3	-												-			
	3	P	3	-												PVCX4707			
	3/4	P	1	PVBX4407												PVCX4407			
	3/4	P - MO [1]	1	PVBX4409 [2]												PVCX4409 [2]			
	3/4	P - RHD	1	PVBX4427			PSHS4050	PSHS4070	PSHS4090	PRVS1740	PRVS1741		PLVS1752	PLVS1772	PLVS1792	PVCX4427			
	3/4	W	1	PVBX4410												PVCX4410			
	3/4	W - MO [1]	1	PVBX4412 [2]												PVCX4412 [2]			
	3/4	W - RHD	1	PVBX4400			PSHS4050	PSHS4070	PSHS4090	PRVS1740	PRVS1741		PLVS1752	PLVS1772	PLVS1792	PVCX4400			
400	4	F - RC	1	PVBX4423	PPVS2400	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS2040	PRVS2041		PLVS2052	PLVS2072	PLVS2092	PVCX4423	PPVS2400	PSHS1906	
	4	W - RC	1	PVBX4417												PVCX4417			

[1] kit with recessed mounting plate.
[2] Only rear terminals.
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.

										W=800mm												
											Segregation form											
	F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)									
	Terminals separator			Vertical rear segregation			Vertical side segregation						Terminals separator			Vertical rear segregation			Vertical side segregation		
					With upright												With upright				
	D (mm)						D (mm)						D (mm)						D (mm)		
	500	700	900	Without upright	Bars side	Exits side	500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900	Without upright	Bars side	Exits side	500	700	900
	PSHS6050	PSHS6070	PSHS6090	PRVS1560	PRVS1561	PRVS1562	PLVS1552	PLVS1572	PLVS1592	-	PPVS2300	PSHS1908									
										PVDX4701											
										-											
										PVDX4801											
										-											
										-											
										-											
										PVDX4807											
	PSHS6050	PSHS6070	PSHS6090	PRVS1760	PRVS1761	PRVS1762	PLVS1752	PLVS1772	PLVS1792	-	PPVS2350	PSHS1908									
										PVDX4707											
										-											
										-											
										-											
	PSHS6050	PSHS6070	PSHS6090	PRVS1760	PRVS1761	PRVS1762	PLVS1752	PLVS1772	PLVS1792	-											
										-											
										-											
	PSHS6050	PSHS6070	PSHS6090	PRVS1760	PRVS1761	PRVS1762	PLVS1752	PLVS1772	PLVS1792	-											
	PSHS6050	PSHS6070	PSHS6090	PRVS2060	PRVS2061	PRVS2062	PLVS20 52	PLVS2072	PLVS2092	-											
										-											

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax XT5 400A
HORIZONTAL INSTALLATION

				W=400mm														W=600mm							
					Segregation form														Segregation form							
					F 2a - 3a*		F 3b						F 4b						F 2a - 3a*		F 3b					
													Rear cubicle													
													Mounting position													
													P0/P1	P1	P2**	P3										
							D (mm)						Breaker terminals								D (mm)					
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side	Side rear segregation			Front	Rear			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side	
							500	700	900		D (mm)										500	700	900		
Front/Rear terminals																									
200	3	F	1	PHBX5329 (2)	PPVS2200	PSHS1904	PSVS2050	PSVS2070	PSVS2090	PRVS2041	PLVS2052	PLVS2072	PLVS2092	PCVS0204	PCVS1204	PCVS2204		PHCX5320	PPVS2200	PSHS1906	PSVS2050	PSVS2070	PSVS2090	PRVS2061	
	3	F - RHD	1	PHBX5306 (2)										PCVS0204	PCVS1204	PCVS2204		PHCX5306							
	3	F - MO (1)	1	PHBX5304 (2)			PSVS2051	PSVS2071	PSVS2091					PCVS1204		PCVS2204		PHCX5304 (3)			PSVS2051	PSVS2071	PSVS2091		
	3	P	1	PHBX5307			PSVS2050	PSVS2070	PSVS2090						PCVS1204	PCVS2204		PHCX5308			PSVS2050	PSVS2070	PSVS2090		
	3	P - RHD	1	PHBX5326											PCVS1204	PCVS2204		PHCX5326							
	3	P - MO (1)	1	PHBX5309 (3)														PHCX5309 (3)							
250	3/4	F	1	PHBX5420 (2)	PPVS2250	PSHS1904	PSVS2550	PSVS2570	PSVS2590	PRVS2541	PLVS2552	PLVS2572	PLVS2592	PCVS0254	PCVS1254	PCVS2254		PHCX5420	PPVS2250	PSHS1906	PSVS2550	PSVS2570	PSVS2590	PRVS2561	
	4	F - RC	1															PHCX5423							
	3/4	F - RHD	1	PHBX5406 (2)										PCVS0254	PCVS1254	PCVS2254		PHCX5406							
	3/4	F - MO (1)	1	PHBX5404 (3)			PSVS2551	PSVS2571	PSVS2591					PCVS1254		PCVS2254		PHCX5404 (3)			PSVS2551	PSVS2571	PSVS2591		
	3/4	P	1	PHBX5427			PSVS2550	PSVS2570	PSVS2590						PCVS1254	PCVS2254		PHCX5428			PSVS2550	PSVS2570	PSVS2590		
	3/4	P - RHD	1	PHBX5426											PCVS1254	PCVS2254		PHCX5426							
	3/4	P - MO (1)	1	PHBX5409 (3)			PSVS2553	PSVS2573	PSVS2593								PCVS3254	PHCX5409 (3)			PSVS2553	PSVS2573	PSVS2593		
300	3	W	1	-	PPVS2300	PSHS1904	PSVS3050	PSVS3070	PSVS3090	PRVS3041	PLVS3052	PLVS3072	PLVS3092		PCVS1304	PCVS2304			PPVS2300	PSHS1906	PSVS3050	PSVS3070	PSVS3090	PRVS3061	
	3	W - RHD	1	PHBX5314											PCVS1304	PCVS2304		PHCX5314							
	3	W - MO (1)	1	PHBX5312			PSVS3051	PSVS3071	PSVS3091								PCVS3304	PHCX5312 (3)			PSVS3051	PSVS3071	PSVS3091		
350	3/4	W	1		PPVS2350	PSHS1904	PSVS3550	PSVS3570	PSVS3590	PRVS3541	PLVS3552	PLVS3572	PLVS3592		PCVS1354	PCVS2354		-	PPVS2350	PSHS1906	PSVS3550	PSVS3570	PSVS3590	PRVS3561	
	3/4	W - RHD	1	PHBX5414											PCVS1354	PCVS2354		PHCX5414							
	3/4	W - MO (1)	1	PHBX5412 (3)			PSVS3551	PSVS3571	PSVS3591								PCVS3354	PHCX5412 (3)			PSVS3551	PSVS3571	PSVS3591		
600	3/4	F - I	2	-														PHCX5402	PPVS2600	PSHS1906					
	3/4	F - I-MO (1)	2	-														PHCX5403 (3)							
	3/4	P - I (1)	2	-														PHCX5431 (3)							
	3/4	P - I-MO (1)	2	-														PHCX5432 (3)							
	3/4	W - I (1)	2	-														PHCX5425 (3)							
	3/4	W - I-MO (1)	2	-														PHCX5411 (3)							

Attention: for interlocked circuit breakers kits the interlocking plate is not included.

(1) kit with recessed mounting plate.
(2) Not compatible with high terminal covers. Front only in form 1.
(3) Only rear terminals.
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.
** Alternatively, can be ordered cubicle P3; for details see page 5-50.

									W=800																				
										Segregation form																			
			F 4b							F 2a - 3a*		F 3b										F 4b							
			Rear cubicle																			Rear cubicle							
	Side rear segregation			Mounting position													Side rear segregation					Mounting position							
				P0/P1	P1	P2**	P3					Terminals separator										P0/P1	P1	P2**	P3				
	D (mm)			Breaker terminals								D (mm)					D (mm)					Breaker terminals							
	500	700	900	Front	Rear				Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900	Rear segregation bars side		500	700	900	Front	Rear								
	PLVS2052	PLVS2072	PLVS2092	PCVS0206	PCVS1206	PCVS2206			PHDX5320	PPVS2200	PSHS1908	PSVS2050	PSVS2070	PSVS2090	PRVS2081		PLVS2052	PLVS2072	PLVS2092	PCVS0208	PCVS1208	PCVS2208							
				PCVS0206	PCVS1206	PCVS2206			PHDX5306																				
				PCVS1206		PCVS2206			PHDX5304 (3)			PSVS2051	PSVS2071	PSVS2091						PCVS1208		PCVS2208							
					PCVS1206	PCVS2206			PHDX5307			PSVS2050	PSVS2070	PSVS2090							PCVS1208	PCVS2208							
					PCVS1206	PCVS2206			PHDX5326												PCVS1208	PCVS2208							
									PHDX5309 (3)																				
	PLVS2552	PLVS2572	PLVS2592	PCVS0256	PCVS1256	PCVS2256			PHDX5420	PPVS2250	PSHS1908	PSVS2550	PSVS2570	PSVS2590	PRVS2581		PLVS2552	PLVS2572	PLVS2592	PCVS0258	PCVS1258	PCVS2258							
				PCVS0256		PCVS2256			PHDX5423											PCVS0258	PCVS1258	PCVS2258							
				PCVS0256	PCVS1256	PCVS2256			PHDX5406											PCVS0258	PCVS1258	PCVS2258							
				PCVS1256		PCVS2256			PHDX5404 (3)			PSVS2551	PSVS2571	PSVS2591						PCVS1258		PCVS2258							
					PCVS1256	PCVS2256			PHDX5429			PSVS2550	PSVS2570	PSVS2590							PCVS1258	PCVS2258							
					PCVS1256	PCVS2256			PHDX5426												PCVS1258	PCVS2258							
							PCVS3256		PHDX5409 (3)			PSVS2553	PSVS2573	PSVS2593									PCVS3258						
	PLVS3052	PLVS3072	PLVS3092		PCVS1306	PCVS2306				PPVS2300	PSHS1908	PSVS3050	PSVS3070	PSVS3090	PRVS3081		PLVS3052	PLVS3072	PLVS3092		PCVS1308	PCVS2308							
					PCVS1306	PCVS2306			PHDX5314												PCVS1308	PCVS2308							
							PCVS3306		PHDX5312 (3)			PSVS3051	PSVS3071	PSVS3091									PCVS3308						
	PLVS3552	PLVS3572	PLVS3592		PCVS1356	PCVS2356			-	PPVS2350	PSHS1908	PSVS3550	PSVS3570	PSVS3590	PRVS3581		PLVS3552	PLVS3572	PLVS3592		PCVS1358	PCVS2358							
					PCVS1356	PCVS2356			PHDX5414												PCVS1358	PCVS2358							
							PCVS3356		PHDX5412 (3)			PSVS3551	PSVS3571	PSVS3591									PCVS3358						
									-	PPVS2600	PSHS1908																		
									-																				
									PHDX5431 (3)																				
									PHDX5432 (3)																				
									PHDX5425 (3)																				
									PHDX5411 (3)																				

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax XT5 400A
VERTICAL INSTALLATION

				W=400mm												W=600mm			
					Segregation form												Segregation form		
					F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*		
										Vertical rear segregation			Vertical side segregation						
							Terminals separator				With upright								
							D (mm)						D (mm)						
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900	Without upright	Bars side	Exits side	500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	
Front/Rear terminals																			
350	3/4	F	1	PVBX5420	PPVS2350	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS1740	PRVS1741		PLVS1752	PLVS1772	PLVS1792	PVCX5420	PPVS2350	PSHS1906	
	3/4	F - RHD	1	PVBX5406												PVCX5406			
	3/4	F - MO [1]	1	PVBX5404 [4]												PVCX5404 [4]			
	3/4	P	1	PVBX5407			PSHS4050	PSHS4070	PSHS4090	PRVS1740	PRVS1741		PLVS1752	PLVS1772	PLVS1792	PVCX5427			
	3/4	P - RHD	1	PVBX5426												PVCX5426			
	3/4	W	3	-												-			
	3	W	4	-												-			
	3/4	W	2	-												-			
	3/4	W	1	-												-			
	3/4	W - RHD	1	PVBX5414												PVCX5414			
	3/4	W - MO [1]	1	PVBX5412 [4]												PVCX5412 [4]			
	3/4	F	2	-												PVCX5712 [3]			
	3/4	F	3	-												-			
	3/4	W - MO [1]	2	-												-			
	3/4	W - MO [1]	3	-												-			
	3	W - MO [1]	4	-															
450	4	F - RC	1	PVBX5423 [2]	PPVS2450	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS2240	PRVS2241		PLVS2252	PLVS2272	PLVS2292	PVCX5423 [2]	PPVS2450	PSHS1906	
	4	P - RC	1	PVBX5428 [2]												PVCX5428 [2]			
	3	P-RHD	1	-												-			

[1] kit with recessed mounting plate.
[2] Compatible residual current devices: RC222 for XT5.
[3] Only front terminals not segregated.
[4] Only rear terminals.
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.

									W=800mm												W=1000mm			
										Segregation form												Segregation form		
	F 3b (for form 4b order the double of the vertical rear and side segregations)									F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*		
	Terminals separator			Vertical rear segregation			Vertical side segregation					Terminals separator			Vertical rear segregation			Vertical side segregation						
					With upright											With upright								
	D (mm)			Without upright	Bars side	Exits side	D (mm)			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	D (mm)			Without upright	Bars side	Exits side	D (mm)			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf
	500	700	900				500	700	900				500	700	900				500	700	900			
	PSHS6050	PSHS6070	PSHS6090	PRVS1760	PRVS1761	PRVS1762	PLVS1752	PLVS1772	PLVS1792	PVDX5420	PPVS2350	PSHS1908	PSHS8050	PSHS8070	PSHS8090	PRVS1780	PRVS1781	PRVS1782	PLVS1752	PLVS1772	PLVS1792	-	PPVS2350	PSHS1901
										PVDX5406												-		
										PVDX5404 (4)												-		
	PSHS6050	PSHS6070	PSHS6090	PRVS1760	PRVS1761	PRVS1762	PLVS1752	PLVS1772	PLVS1792	PVDX5429			PSHS8050	PSHS8070	PSHS8090	PRVS1780	PRVS1781	PRVS1782	PLVS1752	PLVS1772	PLVS1792	-		
										PVDX5426												-		
										-												PVFX5710		
										-												PVFX5810		
										-												-		
										-			PSHS8050	PSHS8070	PSHS8090	PRVS1780	PRVS1781	PRVS1782	PLVS1752	PLVS1772	PLVS1792	-		
										PVDX5414												-		
										PVDX5412 (4)												-		
										PVDX5601												-		
										PVDX5813 (3)												-		
										PVDX5612 (4)												-		
										-												PVFX5712		
										-												PVFX5812		
	PSHS6050	PSHS6070	PSHS6090	PRVS2260	PRVS2261	PRVS2262	PLVS2252	PLVS2272	PLVS2292	PVDX5423 (2)	PPVS2450	PSHS1908	PSHS8050	PSHS8070	PSHS8090	PRVS2280	PRVS2281	PRVS2282	PLVS2252	PLVS2272	PLVS2292	-		
										PVDX5428 (2)														
										-														

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax XT5 630A
HORIZONTAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	W=400mm Base kit (segregation form 1)	Segregation form F 2a - 3a* Cell side closing	Segregation form F 2a - 3a* Universal horizontal shelf	Segregation form F 3b Terminals separator D (mm) 500	700	900	Segregation form F 3b Rear segregation bars side	Segregation form F 4b Side rear segregation D (mm) 500	700	900	Segregation form F 4b Rear cubicle Mounting position P0/P1 Breaker terminals Front	P0 Rear	P1	P2**	W=600mm Base kit (segregation form 1)	Segregation form F 2a - 3a* Cell side closing	Segregation form F 2a - 3a* Universal horizontal shelf	Segregation form F 3b Terminals separator D (mm) 500	700	900	Segregation form F 3b Rear segregation bars side
Front/Rear terminals																								
200	3	F	1	PHBX5329 (2)	PPVS2200	PSHS1904	PSVS2050	PSVS2070	PSVS2090	PRVS2041	PLVS2052	PLVS2072	PLVS2092	PCVS0204		PCVS1204	PCVS2204	PHCX5320	PPVS2200	PSHS1906	PSVS2050	PSVS2070	PSVS2090	PRVS2061
	3	F - RHD	1	PHBX5306 (2)										PCVS0204		PCVS1204	PCVS2204	PHCX5306						
	3	F - MO (1)	1	PHBX5304 (2)			PSVS2051	PSVS2071	PSVS2091					PCVS1204			PCVS2204	PHCX5304 (3)			PSVS2051	PSVS2071	PSVS2091	
	3	P	1															PHCX5307 (2)						
250	3/4	F	1	PHBX5420 (2)	PPVS2250	PSHS1904	PSVS2550	PSVS2570	PSVS2590	PRVS2541	PLVS2552	PLVS2572	PLVS2592	PCVS0254		PCVS1254	PCVS2254	PHCX5420	PPVS2250	PSHS1906	PSVS2550	PSVS2570	PSVS2590	PRVS2561
	4	F - RC	1	-																				
	3/4	F - RHD	1	PHBX5406 (2)										PCVS0254		PCVS1254	PCVS2254	PHCX5406						
	3/4	F - MO (1)	1	PHBX5404 (3)			PSVS2551	PSVS2571	PSVS2591					PCVS1254			PCVS2254	PHCX5404 (3)			PSVS2551	PSVS2571	PSVS2591	
	3/4	P	1	-														PHCX5407			PSVS2550	PSVS2570	PSVS2590	
	3/4	P - MO (1)	1	-														PHCX5427 (3)			PSVS2553	PSVS2573	PSVS2593	
350	3/4	W	1	-														-	PPVS2350	PSHS1906	PSVS3550	PSVS3570	PSVS3590	PRVS3561
600	3/4	F - I	2	-														PHCX5402	PPVS2600	PSHS1906				
	3/4	F - I-MO (1)	2	-														PHCX5403 (3)						
	3/4	P - I (1)	2	-														PHCX5431						
	3/4	P - I-MO (1)	2	-														PHCX5432						
	3/4	W - I (1)	2	-														PHCX5425	PPVS2600	PSHS1906				
	3/4	W - I-MO (1)	2	-														PHCX5411						

Attention: for interlocked circuit breakers kits the interlocking plate is not included.

(1) kit with recessed mounting plate.
(2) Not compatible with high terminal covers. Front only in form 1.
(3) Only rear terminals.
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.
** Alternatively, can be ordered cubicle P3; for details see page 5-50.

								W=800													
									Segregation form												
			F 4b						F 2a - 3a*		F 3b							F 4b			
			Rear cubicle															Rear cubicle			
	Side rear segregation		Mounting position								Terminals separator				Side rear segregation			Mounting position			
			P0/P1	P1	P2**	P3												P0/P1	P1	P2**	P3
	D (mm)		Breaker terminals								D (mm)				D (mm)			Breaker terminals			
	500	700	900	Front	Rear			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900	Rear segregation bars side	500	700	900	Front	Rear		
	PLVS2052	PLVS2072	PLVS2092	PCVS0206	PCVS1206	PCVS2206		PHDX5320	PPVS2200	PSHS1908	PSVS2050	PSVS2070	PSVS2090	PRVS2081	PLVS2052	PLVS2072	PLVS2092	PCVS0208	PCVS1208	PCVS2208	
				PCVS0206	PCVS1206	PCVS2206		PHDX5306										PCVS0208	PCVS1208	PCVS2208	
				PCVS1206		PCVS2206		PHDX5304 (3)			PSVS2051	PSVS2071	PSVS2091					PCVS1208		PCVS2208	
	PLVS2552	PLVS2572	PLVS2592	PCVS0256	PCVS1256	PCVS2256		PHDX5420	PPVS2250	PSHS1908	PSVS2550	PSVS2570	PSVS2590	PRVS2581	PLVS2552	PLVS2572	PLVS2592	PCVS0258	PCVS1258	PCVS2258	
				PCVS0256	PCVS1256	PCVS2256												PCVS0258	PCVS1258	PCVS2258	
				PCVS0256	PCVS1256	PCVS2256		PHDX5406										PCVS0258	PCVS1258	PCVS2258	
				PCVS1256		PCVS2256		PHDX5404 (3)			PSVS2551	PSVS2571	PSVS2591					PCVS1258		PCVS2258	
					PCVS1256	PCVS2256		PHDX5407			PSVS2550	PSVS2570	PSVS2590						PCVS1258	PCVS2258	
							PCVS3256	PHDX5428 (3)			PSVS2553	PSVS2573	PSVS2593								PCVS3258
	PLVS3552	PLVS3572	PLVS3592		PCVS1356	PCVS2356		-													
								-	PPVS2600	PSHS1908											
								-													
								PHDX5431 (3)													
								PHDX5432 (3)													
								PHDX5425	PPVS2600	PSHS1908											
								PHDX5411													

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax XT5 630A
VERTICAL INSTALLATION

				W=400mm												W=600mm			
					Segregation form												Segregation form		
					F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*		
										Vertical rear segregation			Vertical side segregation						
											With upright								
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator D (mm) 500	700	900	Without upright	Bars side	Exits side	D (mm) 500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	
Front/Rear terminals																			
350	3/4	F	1	PVBX5420	PPVS2350	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS1740	PRVS1741		PLVS1752	PLVS1772	PLVS1792	PVCX5420	PPVS2350	PSHS1906	
	3/4	F	2													-			
	3/4	F	3													PVCX5712 [2]			
	3/4	F - RHD	1	PVBX5406												PVCX5406			
	3/4	F - MO [1]	1	PVBX5404 [3]												PVCX5404 [3]			
	3/4	W	2													-			
	3/4	W	3													-			
	3	W	4													-			
	3/4	W - MO [1]	3													-			
	3	W - MO [1]	4													-			
400	3/4	P	1		PPVS2400	PSHS1904										PVCX5429	PPVS2400	PSHS1906	
	3/4	P - MO [1]	1	PVBX5409 [3]												PVCX5409 [3]			
	3/4	W - MO [1]	1													PVCX5430 [3]			
	3/4	P-RHD	1													PVCX5407			
450	3	W	1	PVBX5319 [2]												-			
	3	W	2													PVCX5601 [2]			
	3	W	3													-			
	3	P	1													PVCX5307 [2]			
	3	P-RHD	1													PVCX5326 [2]			

[1] kit with recessed mounting plate.
[2] Only front terminals not segregated.
[3] Only rear terminals.
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.

W=800mm																					W=1000mm		
										Segregation form												Segregation form	
F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*	
Terminals separator			Vertical rear segregation			Vertical side segregation						Terminals separator			Vertical rear segregation			Vertical side segregation					
				With upright												With upright							
D (mm)			Without upright			D (mm)			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	D (mm)			Without upright			D (mm)			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf
500	700	900		Bars side	Exits side	500	700	900				500	700	900		Bars side	Exits side	500	700	900			
PSHS6050	PSHS6070	PSHS6090	PRVS1760	PRVS1761	PRVS1762	PLVS1752	PLVS1772	PLVS1792	PVDX5420	PPVS2350	PSHS1908	PSHS8050	PSHS8070	PSHS8090	PRVS1780	PRVS1781	PRVS1782	PLVS1752	PLVS1772	PLVS1792	-	PPVS2350	PSHS1901
									PVDX5601												-		
									PVDX5813 [2]												-		
									PVDX5406												-		
									PVDX5404 [3]												-		
									PVDX5610												-		
									-												PVFX5710		
									-												PVFX5810		
									-												PVFX5712		
									-												PVFX5812		
PSHS6050	PSHS6070	PSHS6090	PRVS2060	PRVS2061	PRVS2062	PLVS2052	PLVS2072	PLVS2092	PVDX5427	PPVS2400	PSHS1908	PSHS8050	PSHS8070	PSHS8090	PRVS2080	PRVS2081	PRVS2082	PLVS2052	PLVS2072	PLVS2092	-		
									PVDX5409 [3]												-		
									PVDX5430 [3]												-		
									PVDX5407												-		
									-												-		
									-												-		
									PVDX5701 [2]												-		
									-												-		
									-												-		

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax XT6
HORIZONTAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	W=400mm														W=600mm									
				Segregation form														Segregation form									
				F 2a - 3a*		F 3b								F 4b				F 2a - 3a*		F 3b							
														Rear cubicle													
														Mounting position													
														P0/P1	P0	P1	P2**										
						D (mm)					D (mm)			Breaker terminals						D (mm)							
				Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator 500	700	900	Rear segregation bars side	Side rear segregation 500	700	900	Front	Rear			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator 500	700	900	Rear segregation bars side			
Front/Rear terminals																											
300	3	F	1															PHCX6301	PPVS2300	PSHS1906	PSVS3050	PSVS3070	PSVS3090	PRVS3061			
	3	F - RHD	1															PHCX6305									
	3	F - MO (1)	1															PHCX6304 (3)			PSVS5053	PSVS5073	PSVS5093				
350	3/4	F	1															PHCX6401	PPVS2350	PSHS1906	PSVS3550	PSVS3570	PSVS3590	PRVS3561			
	3/4	F - RHD	1															PHCX6405									
	3/4	F - MO (1)	1															PHCX6404 (3)			PSVS3553	PSVS3573	PSVS3593				
	3	W (2)	1															PHCX6314			PSVS3550	PSVS3570	PSVS3590				
	3	W - RHD (2)	1															PHCX6315									
	3	W - MO (1) (2)	1															PHCX6312 (3)			PSVS3551	PSVS3571	PSVS3591				
500	3/4	W (2)	1															PHCX6410	PPVS2500	PSHS1906	PSVS5050	PSVS5070	PSVS5090	PRVS5061			
	3/4	W - RHD (2)	1															PHCX6400									
	3/4	W - MO (1) (2)	1															PHCX6412 (3)			PSVS5052	PSVS5072	PSVS5092				
700	3/4	F - I	2															PHCX6402	PPVS2700	PSHS1906							
	3/4	F - I-MO (1)	2															PHCX6403 (3)									
	3/4	W - I (1) (2)	2															PHCX6425 (3)									
	3/4	W - I-MO (1) (2)	2															PHCX6411 (3)									

Attention: for interlocked circuit breakers kits the interlocking plate is not included.

(1) kit with recessed mounting plate.
(2) Front terminals only in Form 1, high terminal cover not available.
(3) Only rear terminals.
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.
** Alternatively, can be ordered cubicle P3; for details see page 5-50.

								W=800													
									Segregation form												
			F 4b						F 2a - 3a*		F 3b						F 4b			
	Side rear segregation		Rear cubicle														Rear cubicle			
			Mounting position														Mounting position			
			P0/P1	P1	P2**	P3											P0/P1	P1	P2**	P3	
	D (mm)		Breaker terminals								D (mm)						Breaker terminals				
	500	700	900	Front	Rear			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900	Rear segregation bars side	500	700	900	Front	Rear		
	PLVS3052	PLVS3072	PLVS3092	PCVS0306	PCVS1306	PCVS2306		PHDX6301	PPVS2300	PSHS1908	PSVS3050	PSVS3070	PSVS3090	PRVS3081	PLVS3052	PLVS3072	PLVS3092	PCVS0308	PCVS1308	PCVS2308	
				PCVS0306	PCVS1306	PCVS2306		PHDX6305			PSVS5053	PSVS5073	PSVS5093					PCVS0308	PCVS1308	PCVS2308	
				PCVS1306		PCVS2306		PHDX6304 (3)										PCVS1308		PCVS2308	
	PLVS3552	PLVS3572	PLVS3592	PCVS0356	PCVS1356	PCVS2356		PHDX6401	PPVS2350	PSHS1908	PSVS3550	PSVS3570	PSVS3590	PRVS3581	PLVS3552	PLVS3572	PLVS3592	PCVS0358	PCVS1358	PCVS2358	
				PCVS0356	PCVS1356	PCVS2356		PHDX6405										PCVS0358	PCVS1358	PCVS2358	
				PCVS1356		PCVS2356		PHDX6404 (3)			PSVS3553	PSVS3573	PSVS3593					PCVS1358		PCVS2358	
					PCVS1356	PCVS2356		PHDX6314			PSVS3550	PSVS3570	PSVS3590						PCVS1358	PCVS2358	
					PCVS1356	PCVS2356		PHDX6315											PCVS1358	PCVS2358	
							PCVS3356	PHDX6312 (3)			PSVS3551	PSVS3571	PSVS3591								PCVS3358
	PLVS5052	PLVS5072	PLVS5092		PCVS1506	PCVS2506		PHDX6414	PPVS2500	PSHS1908	PSVS5050	PSVS5070	PSVS5090	PRVS5081	PLVS5052	PLVS5072	PLVS5092		PCVS1508	PCVS2508	
					PCVS1506	PCVS2506		PHDX6415											PCVS1508	PCVS2508	
							PCVS3506	PHDX6412 (3)			PSVS5052	PSVS5072	PSVS5092								PCVS3508
								PHDX6402	PPVS2700	PSHS1908											
								PHDX6403 (3)													
								-													
								-													

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax XT6
VERTICAL INSTALLATION

				W=400mm													W=600mm			
				Segregation form														Segregation form		
				F 2a - 3a*			F 3b (for form 4b order the double of the vertical rear and side segregations)											F 2a - 3a*		
										Vertical rear segregation			Vertical side segregation						
											With upright								
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator D (mm) 500	700	900	Without upright	Bars side	Exits side	D (mm) 500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	
Front/Rear terminals																				
400	3/4	F	1													PVCX6401	PPVS2400	PSHS1906	
	3/4	F - RHD	1													PVCX6405			
	3/4	F - MO [1]	1													PVCX6404 [3]			
450	3/4	W [2]	2													PVCX6414	PPVS2450	PSHS1906	
	3/4	W - MO [1] [2]	2													PVCX6412 [3]			
	3	W [2]	1																
	3	W - MO [1] [2]	1																
	3	W - RHD [2]	1													PVCX6415			
	3/4	W - RHD [2]	2																

[1] kit with recessed mounting plate.
[2] Front terminals only in Form 1, high terminal cover not available.
[3] Only rear terminals..
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.

										W=800mm												W=1000mm		
											Segregation form												Segregation form	
	F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*	
	Terminals separator			Vertical rear segregation			Vertical side segregation						Terminals separator			Vertical rear segregation			Vertical side segregation					
				Without upright	With upright											Without upright	With upright							
	D (mm)						D (mm)						D (mm)						D (mm)					
	500	700	900		Bars side	Exits side	500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900		Bars side	Exits side	500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf
	PSHS6050	PSHS6070	PSHS6090	PRVS2060	PRVS2061	PRVS2062	PLVS20 2	PLVS2072	PLVS2092	PVDX6401	PPVS2400	PSHS1908	PSHS8050	PSHS8070	PSHS8090	PRVS2080	PRVS2081	PRVS2082	PLVS2052	PLVS2072	PLVS2092			
										PVDX6405														
										PVDX6404 (3)														
											PPVS2450	PSHS1908										PVFX6610	PPVS2450	PSHS1901
																						PVFX6612		
	PSHS6050	PSHS6070	PSHS6090	PRVS2260	PRVS2261	PRVS2262	PLVS2252	PLVS2272	PLVS2292	PVDX6414			PSHS8050	PSHS8070	PSHS8090	PRVS2280	PRVS2281	PRVS2282	PLVS2252	PLVS2272	PLVS2292			
										PVDX6412 (3)														
	PSHS6050	PSHS6070	PSHS6090	PRVS2260	PRVS2261	PRVS2262	PLVS2252	PLVS2272	PLVS2292	PVDX6415			PSHS8050	PSHS8070	PSHS8090	PRVS2280	PRVS2281	PRVS2282	PLVS2252	PLVS2272	PLVS2292			
																						PVFX6615		

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax XT7

HORIZONTAL INSTALLATION

				W=400mm														W=600mm						
					Segregation form														Segregation form					
					F 2a - 3a*		F 3b						F 4b						F 2a - 3a*	F 3b				
													Rear cubicle											
													Mounting position											
													P0/P1	P0	P1	P2								
							D (mm)				D (mm)		Breaker terminals							D (mm)				
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900	Rear segregation bars side	500	700	900	Front	Rear			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900	Rear segregation bars side
Front/Rear terminals																								
300	3	F	1															PHGT7329	PPVS2300	PSHS1906	PSVS3050	PSVS3070	PSVS3090	PRVS3061
	3	F - I	1															PHGT7329						
	3	F - I-MO	1															PHGT7329						
	3	F - MO	1															PHGT7329						
	3	F - RHD	1															PHGT7329						
350	3/4	F	1															PHGT7420	PPVS2350	PSHS1906	PSVS3550	PSVS3570	PSVS3590	PRVS3561
	3/4	F - MO	1															PHGT7420						
	3/4	F - RHD	1															PHGT7420						
500	3/4	F - I	1															PHGT7418	PSHW5061			PSVS0055	PSVS0057	PRVS5061
	3/4	F - I-MO	1															PHGT7418						
	3/4	W [2]	1															PHGT7430						
	3/4	W - I [2]	1															PHGT7430						
	3/4	W - I-MO [2]	1															PHCE1240						
	3/4	W - MO [2]	1															PHCE1240						
	3/4	W - RHD [2]	1															PHGT7430						

VERTICAL INSTALLATION

				W=400mm												W=600mm			
				Segregation form													Segregation form		
				F 2a - 3a*			F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*		
										Vertical rear segregation			Vertical side segregation						
											With upright								
							D (mm)						D (mm)						
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900	Without upright	Bars side	Exits side	500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	
Front/Rear terminals																			
450	3/4	F	1	PVBE1241***	PPVS2450	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS2240	PRVS2241		PLVS2252	PLVS2272	PLVS2292	PVGT7419	PPVS2450	PSHS1906	
	3/4	F - I	1													PVGT7419			
	3/4	F - I-MO	1													PVCE1241			
	3/4	F - MO	1	PVBE1241	PPVS2450	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS2240	PRVS2241		PLVS2252	PLVS2272	PLVS2292	PVCE1241			
500	3/4	W [2]	2													-	PSVW5061		
	3/4	W - MO [2]	2													-			
	3/4	W [2]	1													PVGT7413			
	3/4	W - I [2]	1													PVGT7413			
	3/4	W - I-MO [2]	1													PVCE1240			
	3/4	W - MO [2]	1													PVCE1240			

[2] Only rear terminals.

* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b..

** Alternatively, can be ordered cubicle P3; for details see page 5-50.

*** Only for IP3x without door

								W=800																		
									Segregation form																	
			F 4b						F 2a - 3a*			F 3b									F 4b					
			Rear cubicle																		Rear cubicle					
		Side rear segregation	Mounting position												Side rear segregation						Mounting position					
			P0/P1	P0		P1	P2**					Terminals separator									P0/P1	P0		P1	P2**	
		D (mm)	Breaker terminals									D (mm)			D (mm)						Breaker terminals					
		500 700 900	Front	Rear				Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf		500	700	900	Rear segregation bars side	500	700	900			Front	Rear				
		PLVS3052 PLVS3072 PLVS3092	PCVS0306			PCVS1306	PCVS2306	PHIT7329	PPVS2300	PSHS1908		PSVS3050	PSVS3070	PSVS3090	PRVS3081	PLVS3052	PLVS3072	PLVS3092			PCVS0308			PCVS1308	PCVS2308	
			PCVS0306			PCVS1306	PCVS2306	PHIT7329													PCVS0308			PCVS1308	PCVS2308	
			PCVS0306			PCVS1306	PCVS2306	PHIT7329													PCVS0308			PCVS1308	PCVS2308	
			PCVS0306			PCVS1306	PCVS2306	PHIT7329													PCVS0308			PCVS1308	PCVS2308	
			PCVS0306			PCVS1306	PCVS2306	PHIT7329													PCVS0308			PCVS1308	PCVS2308	
		PLVS3552 PLVS3572 PLVS3592	PCVS0356			PCVS1356	PCVS2356	PHIT7420	PPVS2350	PSHS1908		PSVS3550	PSVS3570	PSVS3590	PRVS3581	PLVS3552	PLVS3572	PLVS3592			PCVS0358			PCVS1358	PCVS2358	
			PCVS0356			PCVS1356	PCVS2356	PHIT7420													PCVS0358			PCVS1358	PCVS2358	
			PCVS0356			PCVS1356	PCVS2356	PHIT7420													PCVS0358			PCVS1358	PCVS2358	
		PLVS4052 PLVS4072 PLVS4092	PCVS0406			PCVS1406	PCVS2406	PHIT7418	PPVS2400	PSHS1908		PSVS4050	PSVS4070	PSVS4090	PRVS4081	PLVS4052	PLVS4072	PLVS4092			PCVS0408			PCVS1408	PCVS2408	
			PCVS0406			PCVS1406	PCVS2406	PHIT7418													PCVS0408			PCVS1408	PCVS2408	
		PLVS5072 PLVS5092				PCVS5060		PHIT7430	PSHW5081				PSVS0055	PSVS0057	PRVS5081		PLVS5072	PLVS5092						PCVS5080		
						PCVS5060		PHIT7430																PCVS5080		
						PCVS5060		PHDE1240																PCVS5080		
						PCVS5060		PHDE1240																PCVS5080		
						PCVS5060		PHIT7430																PCVS5080		

								W=800mm																W=1000mm		
									Segregation form																Segregation form	
			F 3b (for form 4b order the double of the vertical rear and side segregations)						F 2a - 3a*			F 3b (for form 4b order the double of the vertical rear and side segregations)												F 2a - 3a*	
				Vertical rear segregation			Vertical side segregation									Vertical rear segregation			Vertical side segregation							
		Terminals separator		With upright								Terminals separator					With upright									
		D (mm)	Without upright			D (mm)			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	D (mm)			Without upright				D (mm)			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	
		500 700 900		Bars side	Exits side	500	700	900				500	700	900		Bars side	Exits side	500	700	900						
		PSHS6050 PSHS6070 PSHS6090	PRVS2260	PRVS2261	PRVS2262	PLVS2252	PLVS2272	PLVS2292	PVIT7419	PPVS2450	PSHS1908	PSHS8050	PSHS8070	PSHS8090	PRVS2280	PRVS2251	PRVS2282	PLVS2252	PLVS2272	PLVS2292	-					
									PVIT7419												-					
									PVDE1241												-					
									PVDE1241												-					
		PSHW6051 PSHW6071 PSHW6091	PRVS2560	PRVS2561	PRVS2562	PLVS2552	PLVS2572	PLVS2592	-	PSVW5081		PSHW8051	PSHW8071	PSHW8091	PRVS2580	PRVS2581	PRVS2582	PLVS2552	PLVS2572	PLVS2592	PVLT7633					
									-												PVFE1263					
									PVIT7413												-					
									PVIT7413												-					
									PVDE1240												-					
									PVDE1240												-					

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax T4

HORIZONTAL INSTALLATION

				W=400mm														W=600mm						
					Segregation form														Segregation form					
					F 2a - 3a*	F 3b							F 4b						F 2a - 3a*	F 3b				
													Rear cubicle											
													Mounting position											
													P0/P1	P0	P1	P2**								
						D (mm)				D (mm)			Breaker terminals							D (mm)				
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator			Side rear segregation			Front	Rear			Rear segregation bars side	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side
							500	700	900	500	700	900									500	700	900	
Front/Rear terminals																								
150	3	F	1	PHBT4301 (2)	2xPPRS0150	PSHS1904												PHCT4301	2xPPRS0150	PSHS1906				
200	3/4	F	1	PHBT4406 (3)	PPVS2200	PSHS1904	PSVS2050	PSVS2070	PSVS2090	PRVS2041	PLVS2052	PLVS2072	PLVS2092	PCVS0204		PCVS1204	PCVS2204	PHCT4406	PPVS2200	PSHS1906	PSVS2050	PSVS2070	PSVS2090	PRVS2061
	4	F - RC	1	-														PHCT4423						
	3/4	F - RHD	1	PHBT4406 (3)										PCVS0204		PCVS1204	PCVS2204	PHCT4406						
	3/4	F - MO (1)	1	PHBT4404 (3)			PSVS2051	PSVS2071	PSVS2091					PCVS1204			PCVS2204	PHCT4404 (3)			PSVS2051	PSVS2071	PSVS2091	
600	3/4	F - I	2	PHBT4402	PPVS2600	PSHS1904												PHCT4402	PPVS2600	PSHS1906				
	3/4	F - I-MO (1)	2	-														PHCT4403 (3)						

Attention: for interlocked circuit breakers kits the interlocking plate is not included.

VERTICAL INSTALLATION

				W=400mm											W=600mm		
					Segregation form											Segregation form	
					F 2a - 3a*	F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*	
										Vertical rear segregation			Vertical side segregation				
											With upright						
						Terminals separator							D (mm)				
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	D (mm)			Without upright	Bars side	Exits side				Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf
							500	700	900				500	700	900			
Front/Rear terminals																		
350	3/4	F	1	PVBT4406	PPVS2350	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS1740	PRVS1741		PLVS1752	PLVS1772	PLVS1792	PVCT4406	PPVS2350	PSHS1906
	3/4	F - RHD	1	PVBT4406												PVCT4406		
	3/4	F - MO (1)	1	PVBT4404 (3)												PVCT4404 (3)		
450	4	F - RC	1	PVBT4423	PPVS2450	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS2240	PRVS2241		PLVS2252	PLVS2272	PLVS2292	PVCT4423	PPVS2450	PSHS1906

(1) kit with recessed mounting plate.
(2) Not compatible with high terminal covers. Front only in form 1.
(3) Only rear terminals.
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.
** Alternatively, can be ordered cubicle P3; for details see page 5-50.

								W=800													
									Segregation form												
				F 4b					F 2a - 3a*		F 3b							F 4b			
				Rear cubicle														Rear cubicle			
	Side rear segregation			Mounting position							Terminals separator				Side rear segregation			Mounting position			
				P0/P1	P0	P1	P2**											P0/P1	P0	P1	P2**
	D (mm)			Breaker terminals							D (mm)				D (mm)			Breaker terminals			
	500	700	900	Front	Rear			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900	Rear segregation bars side	500	700	900	Front	Rear		
								-													
	PLVS2052	PLVS2072	PLVS2092	PCVS0206		PCVS1206	PCVS2206	-													
				PCVS0206		PCVS1206	PCVS2206	-													
				PCVS0206		PCVS1206	PCVS2206	-													
				PCVS1206			PCVS2206	-													
								PHDT4402	PPVS2600	PSHS1908											
								PHDT4403 (3)													

										W=800mm											
											Segregation form										
	F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)								
	Terminals separator			Vertical rear segregation			Vertical side segregation						Terminals separator			Vertical rear segregation			Vertical side segregation		
					With upright												With upright				
	D (mm)			Without upright			D (mm)						D (mm)			Without upright			D (mm)		
	500	700	900		Bars side	Exits side	500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900		Bars side	Exits side	500	700	900
	PSHS6050	PSHS6070	PSHS6090	PRVS1760	PRVS1761	PRVS1762	PLVS1752	PLVS1772	PLVS1792												
	PSHS6050	PSHS6070	PSHS6090	PRVS2260	PRVS2261	PRVS2262	PLVS2252	PLVS2272	PLVS2292												

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax T5 400A
HORIZONTAL INSTALLATION

				W=400mm														W=600mm						
					Segregation form														Segregation form					
					F 2a - 3a*		F 3b							F 4b					F 2a - 3a*		F 3b			
														Rear cubicle									
														Mounting position									
														P0/P1	P1	P2**	P3						
							D (mm)					D (mm)		Breaker terminals						D (mm)			
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side	Side rear segregation			Front	Rear			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side
							500	700	900		500	700	900								500	700	900	
Front/Rear terminals																								
200	3	F	1	PHBT5306 (2)	PPVS2200	PSHS1904	PSVS2050	PSVS2070	PSVS2090	PRVS2041	PLVS2052	PLVS2072	PLVS2092	PCVS0204	PCVS1204	PCVS2204		PHCT5306	PPVS2200	PSHS1906	PSVS2050	PSVS2070	PSVS2090	PRVS2061
	3	F - RHD	1	PHBT5306 (2)										PCVS0204	PCVS1204	PCVS2204		PHCT5306						
	3	F - MO (1)	1	PHBT5304 (3)			PSVS2051	PSVS2071	PSVS2091					PCVS1204		PCVS2204		PHCT5304 (3)			PSVS2051	PSVS2071	PSVS2091	
	3	P	1	PHBT5326			PSVS2050	PSVS2070	PSVS2090						PCVS1204	PCVS2204		PHCT5326			PSVS2050	PSVS2070	PSVS2090	
	3	P - RHD	1	PHBT5326											PCVS1204	PCVS2204		PHCT5326						
	3	P - MO (1)	1	PHBT5309 (3)														PHCT5309 (3)						
250	3/4	F	1	PHBT5406 (2)	PPVS2250	PSHS1904	PSVS2550	PSVS2570	PSVS2590	PRVS2541	PLVS2552	PLVS2572	PLVS2592	PCVS0254	PCVS1254	PCVS2254		PHCT5406	PPVS2250	PSHS1906	PSVS2550	PSVS2570	PSVS2590	PRVS2561
	4	F - RC	1	-														PHCT5423						
	3/4	F - RHD	1	PHBT5406 (2)										PCVS0254	PCVS1254	PCVS2254		PHCT5406						
	3/4	F - MO (1)	1	PHBT5404 (3)			PSVS2551	PSVS2571	PSVS2591					PCVS1254		PCVS2254		PHCT5404 (3)			PSVS2551	PSVS2571	PSVS2591	
	3/4	P	1	PHBT5426			PSVS2550	PSVS2570	PSVS2590						PCVS1254	PCVS2254		PHCT5426			PSVS2550	PSVS2570	PSVS2590	
	3/4	P - RHD	1	PHBT5426											PCVS1254	PCVS2254		PHCT5426						
	3/4	P - MO (1)	1	PHBT5409 (3)			PSVS2553	PSVS2573	PSVS2593								PCVS3254	PHCT5409 (3)			PSVS2553	PSVS2573	PSVS2593	
300	3	W	1	PHBT5314	PPVS2300	PSHS1904	PSVS3050	PSVS3070	PSVS3090	PRVS3041	PLVS3052	PLVS3072	PLVS3092		PCVS1304	PCVS2304		PHCT5314	PPVS2300	PSHS1906	PSVS3050	PSVS3070	PSVS3090	PRVS3061
	3	W - RHD	1	PHBT5314											PCVS1304	PCVS2304		PHCT5314						
	3	W - MO (1)	1	PHBT5312 (3)			PSVS3051	PSVS3071	PSVS3091								PCVS3304	PHCT5312 (3)			PSVS3051	PSVS3071	PSVS3091	
350	3/4	W	1	PHBT5414	PPVS2350	PSHS1904	PSVS3550	PSVS3570	PSVS3590	PRVS3541	PLVS3552	PLVS3572	PLVS3592		PCVS1354	PCVS2354		PHCT5414	PPVS2350	PSHS1906	PSVS3550	PSVS3570	PSVS3590	PRVS3561
	3/4	W - RHD	1	PHBT5414											PCVS1354	PCVS2354		PHCT5414						
	3/4	W - MO (1)	1	PHBT5412 (3)			PSVS3551	PSVS3571	PSVS3591								PCVS3354	PHCT5412 (3)			PSVS3551	PSVS3571	PSVS3591	
600	3/4	F - I	2	-														PHCT5402	PPVS2600	PSHS1906				
	3/4	F - I-MO (1)	2	-														PHCT5403 (3)						
	3/4	P - I (1)	2	-														PHCT5431 (3)						
	3/4	P - I-MO (1)	2	-														PHCT5432 (3)						
	3/4	W - I (1)	2	-														PHCT5425 (3)						
	3/4	W - I-MO (1)	2	-														PHCT5411 (3)						

Attention: for interlocked circuit breakers kits the interlocking plate is not included.

(1) kit with recessed mounting plate.
(2) Not compatible with high terminal covers. Front only in form 1.
(3) Only rear terminals.
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.
** Alternatively, can be ordered cubicle P3; for details see page 5-50.

								W=800																	
									Segregation form																
				F 4b					F 2a - 3a*		F 3b									F 4b					
				Rear cubicle																Rear cubicle					
	Side rear segregation			Mounting position											Side rear segregation			Mounting position							
				P0/P1	P1	P2**	P3											P0/P1	P1	P2**	P3				
	D (mm)			Breaker terminals							D (mm)				D (mm)			Breaker terminals							
	500	700	900	Front	Rear			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900	Rear segregation bars side	500	700	900	Front	Rear						
	PLVS2052	PLVS2072	PLVS2092	PCVS0206	PCVS1206	PCVS2206		PHDT5306	PPVS2200	PSHS1908	PSVS2050	PSVS2070	PSVS2090	PRVS2081	PLVS2052	PLVS2072	PLVS2092	PCVS0208	PCVS1208	PCVS2208					
				PCVS0206	PCVS1206	PCVS2206		PHDT5306			PSVS2050	PSVS2070	PSVS2090					PCVS0208	PCVS1208	PCVS2208					
				PCVS1206		PCVS2206		PHDT5304 (3)			PSVS2051	PSVS2071	PSVS2091					PCVS1208		PCVS2208					
					PCVS1206	PCVS2206		PHDT5326			PSVS2050	PSVS2070	PSVS2090						PCVS1208	PCVS2208					
					PCVS1206	PCVS2206		PHDT5326											PCVS1208	PCVS2208					
								PHDT5309 (3)																	
	PLVS2552	PLVS2572	PLVS2592	PCVS0256	PCVS1256	PCVS2256		PHDT5406	PPVS2250	PSHS1908	PSVS2550	PSVS2570	PSVS2590	PRVS2581	PLVS2552	PLVS2572	PLVS2592	PCVS0258	PCVS1258	PCVS2258					
				PCVS0256		PCVS2256		PHDT5423										PCVS0258	PCVS1258	PCVS2258					
				PCVS0256	PCVS1256	PCVS2256		PHDT5406										PCVS0258	PCVS1258	PCVS2258					
				PCVS1256		PCVS2256		PHDT5404 (3)			PSVS2551	PSVS2571	PSVS2591					PCVS1258		PCVS2258					
					PCVS1256	PCVS2256		PHDT5426			PSVS2550	PSVS2570	PSVS2590						PCVS1258	PCVS2258					
					PCVS1256	PCVS2256		PHDT5426											PCVS1258	PCVS2258					
							PCVS3256	PHDT5409 (3)			PSVS2553	PSVS2573	PSVS2593								PCVS3258				
	PLVS3052	PLVS3072	PLVS3092		PCVS1306	PCVS2306		PHDT5314	PPVS2300	PSHS1908	PSVS3050	PSVS3070	PSVS3090	PRVS3081	PLVS3052	PLVS3072	PLVS3092		PCVS1308	PCVS2308					
					PCVS1306	PCVS2306		PHDT5314											PCVS1308	PCVS2308					
							PCVS3306	PHDT5312 (3)			PSVS3051	PSVS3071	PSVS3091								PCVS3308				
	PLVS3552	PLVS3572	PLVS3592		PCVS1356	PCVS2356		PHDT5414	PPVS2350	PSHS1908	PSVS3550	PSVS3570	PSVS3590	PRVS3581	PLVS3552	PLVS3572	PLVS3592		PCVS1358	PCVS2358					
					PCVS1356	PCVS2356		PHDT5414											PCVS1358	PCVS2358					
							PCVS3356	PHDT5412 (3)			PSVS3551	PSVS3571	PSVS3591								PCVS3358				
								-	PPVS2600	PSHS1908															
								-																	
								PHDT5431 (3)																	
								PHDT5432 (3)																	
								PHDT5425 (3)																	
								PHDT5411 (3)																	

Key:

F	fixed	F & F - I	fixed and fixed interlocked	W	withdrawable
F - I	fixed interlocked	P	plug-in	W - I	withdrawable interlocked
F - I-MO	fixed interlocked motor-operated	P - I	plug-in interlocked	W - I-MO	withdrawable interlocked motor-operated
F - MO	fixed motor-operated	P - I-MO	plug-in interlocked motor-operated	W - MO	withdrawable motor-operated
F - RC	fixed with residual current	P - MO	plug-in motor-operated	W - RC	withdrawable with residual current
F - RHD	fixed with Direct Rotary Handle	P - RC	plug-in with residual current	W - RHD	withdrawable with Direct Rotary Handle
		P - RHD	plug-in with Direct Rotary Handle	W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax T5 400A
VERTICAL INSTALLATION

				W=400mm												W=600mm			
				Segregation form												Segregation form			
				F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*			
						Terminals separator			Vertical rear segregation			Vertical side segregation							
										With upright									
						D (mm)						D (mm)							
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900	Without upright	Bars side	Exits side	500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	
Front/Rear terminals																			
350	3/4	F	1	PVBT5406	PPVS2350	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS1740	PRVS1741		PLVS1752	PLVS1772	PLVS1792	PVCT5406	PPVS2350	PSHS1906	
	3/4	F - RHD	1	PVBT5406												PVCT5406			
	3/4	F - MO [1]	1	PVBT5404 [2]												PVCT5404 [2]			
	3/4	P	1	PVBT5426			PSHS4050	PSHS4070	PSHS4090	PRVS1740	PRVS1741		PLVS1752	PLVS1772	PLVS1792	PVCT5426			
	3/4	P - RHD	1	PVBT5426												PVCT5426			
	3/4	W	3	-												-			
	3	W	4	-												-			
	3/4	W	2	-												-			
	3/4	W	1	PVBT5414												PVCT5414			
	3/4	W - RHD	1	PVBT5414												PVCT5414			
	3/4	W - MO [1]	1	PVBT5412 [2]												PVCT5412 [2]			
	3/4	F	2	-												-			
	3/4	F	3	-												-			
	3/4	W - MO [1]	2	-												-			
	3/4	W - MO [1]	3	-												-			
	3	W - MO [1]	4	-												-			
450	4	F - RC	1	PVBT5423	PPVS2450	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS2240	PRVS2241		PLVS2252	PLVS2272	PLVS2292	PVCT5423	PPVS2450	PSHS1906	
	4	P - RC	1	PVBT5428												PVCT5428			

[1] kit with recessed mounting plate.
[2] Only rear terminals.
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.

										W=800mm												W=1000mm		
											Segregation form												Segregation form	
	F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*	
	Terminals separator			Vertical rear segregation			Vertical side segregation						Terminals separator			Vertical rear segregation			Vertical side segregation					
				Without upright	With upright											Without upright	With upright							
	D (mm)						D (mm)						D (mm)						D (mm)					
	500	700	900		Bars side	Exits side	500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900		Bars side	Exits side	500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf
	PSHS6050	PSHS6070	PSHS6090	PRVS1760	PRVS1761	PRVS1762	PLVS1752	PLVS1772	PLVS1792	PVDT5406	PPVS2350	PSHS1908	PSHS8050	PSHS8070	PSHS8090	PRVS1780	PRVS1781	PRVS1782	PLVS1752	PLVS1772	PLVS1792	-	PPVS2350	PSHS1901
										PVDT5406												-		
										PVDT5404 (2)												-		
	PSHS6050	PSHS6070	PSHS6090	PRVS1760	PRVS1761	PRVS1762	PLVS1752	PLVS1772	PLVS1792	PVDT5426			PSHS8050	PSHS8070	PSHS8090	PRVS1780	PRVS1781	PRVS1782	PLVS1752	PLVS1772	PLVS1792	-		
										PVDT5426												-		
										-												PVFT5710		
										-												PVFT5810		
										PVDT5610												-		
										PVDT5414			PSHS8050	PSHS8070	PSHS8090	PRVS1780	PRVS1781	PRVS1782	PLVS1752	PLVS1772	PLVS1792	-		
										PVDT5414												-		
										PVDT5412 (2)												-		
										PVDT5601												-		
										PVDT5813												-		
										PVDT5612 (2)												-		
										-												PVFT5712		
										-												PVFT5812		
	PSHS6050	PSHS6070	PSHS6090	PRVS2260	PRVS2261	PRVS2262	PLVS2252	PLVS2272	PLVS2292	PVDT5423	PPVS2450	PSHS1908	PSHS8050	PSHS8070	PSHS8090	PRVS2280	PRVS2281	PRVS2282	PLVS2252	PLVS2272	PLVS2292	-		
										PVDT5428												-		

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax T5 630A
HORIZONTAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	W=400mm Base kit (segregation form 1)	Segregation form F 2a - 3a* Cell side closing	Segregation form F 2a - 3a* Universal horizontal shelf	Segregation form F 3b Terminals separator D (mm) 500	700	900	Segregation form F 3b Rear segregation bars side	Segregation form F 4b Side rear segregation D (mm) 500	700	900	Segregation form F 4b Rear cubicle Mounting position P0/P1 Breaker terminals Front	P0 Rear	P1	P2**	W=600mm Base kit (segregation form 1)	Segregation form F 2a - 3a* Cell side closing	Segregation form F 2a - 3a* Universal horizontal shelf	Segregation form F 3b Terminals separator D (mm) 500	700	900	Segregation form F 3b Rear segregation bars side
Front/Rear terminals																								
200	3	F	1	PHBT5306 (2)	PPVS2200	PSHS1904	PSVS2050	PSVS2070	PSVS2090	PRVS2041	PLVS2052	PLVS2072	PLVS2092	PCVS0204		PCVS1204	PCVS2204	PHCT5306	PPVS2200	PSHS1906	PSVS2050	PSVS2070	PSVS2090	PRVS2061
	3	F - RHD	1	PHBT5306 (2)										PCVS0204		PCVS1204	PCVS2204	PHCT5306						
	3	F - MO (1)	1	PHBT5304 (3)			PSVS2051	PSVS2071	PSVS2091					PCVS1204			PCVS2204	PHCT5304 (3)			PSVS2051	PSVS2071	PSVS2091	
250	3/4	F	1	PHBT5406 (2)	PPVS2250	PSHS1904	PSVS2550	PSVS2570	PSVS2590	PRVS2541	PLVS2552	PLVS2572	PLVS2592	PCVS0254		PCVS1254	PCVS2254	PHCT5406	PPVS2250	PSHS1906	PSVS2550	PSVS2570	PSVS2590	PRVS2561
	4	F - RC	1	-														PHCT5423						
	3/4	F - RHD	1	PHBT5406 (2)										PCVS0254		PCVS1254	PCVS2254	PHCT5406						
	3/4	F - MO (1)	1	PHBT5404 (3)			PSVS2551	PSVS2571	PSVS2591					PCVS1254			PCVS2254	PHCT5404 (3)			PSVS2551	PSVS2571	PSVS2591	
	3/4	P	1	-														PHCT5407			PSVS2550	PSVS2570	PSVS2590	
	3/4	P - MO (1)	1	-														PHCT5427 (3)			PSVS2553	PSVS2573	PSVS2593	
350	3/4	W	1															PHCT5416	PPVS2350	PSHS1906	PSVS3550	PSVS3570	PSVS3590	PRVS3561
600	3/4	F - I	2	-														PHCT5402	PPVS2600	PSHS1906				
	3/4	F - I-MO (1)	2	-														PHCT5403 (3)						
	3/4	P - I (1)	2	-														PHCT5431 (3)						
	3/4	P - I-MO (1)	2	-														PHCT5432 (3)						
	3/4	W - I (1)	2	-														PHCT5425 (3)	PPVS2600	PSHS1906				
	3/4	W - I-MO (1)	2	-														PHCT5411 (3)						

Attention: for interlocked circuit breakers kits the interlocking plate is not included.

(1) kit with recessed mounting plate.
(2) Not compatible with high terminal covers. Front only in form 1.
(3) Only rear terminals.
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.
** Alternatively, can be ordered cubicle P3; for details see page 5-50.

								W=800													
									Segregation form												
			F 4b						F 2a - 3a*		F 3b							F 4b			
			Rear cubicle															Rear cubicle			
	Side rear segregation			Mounting position							Terminals separator				Side rear segregation			Mounting position			
				P0/P1	P1	P2**	P3											P0/P1	P1	P2**	P3
	D (mm)			Breaker terminals							D (mm)				D (mm)			Breaker terminals			
	500	700	900	Front	Rear			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900	Rear segregation bars side	500	700	900	Front	Rear		
	PLVS2052	PLVS2072	PLVS2092	PCVS0206	PCVS1206	PCVS2206		PHDT5306	PPVS2200	PSHS1908	PSVS2050	PSVS2070	PSVS2090	PRVS2081	PLVS2052	PLVS2072	PLVS2092	PCVS0208	PCVS1208	PCVS2208	
				PCVS0206	PCVS1206	PCVS2206		PHDT5306										PCVS0208	PCVS1208	PCVS2208	
				PCVS1206		PCVS2206		PHDT5304 (3)			PSVS2051	PSVS2071	PSVS2091					PCVS1208		PCVS2208	
	PLVS2552	PLVS2572	PLVS2592	PCVS0256	PCVS1256	PCVS2256		PHDT5406	PPVS2250	PSHS1908	PSVS2550	PSVS2570	PSVS2590	PRVS2581	PLVS2552	PLVS2572	PLVS2592	PCVS0258	PCVS1258	PCVS2258	
				PCVS0256	PCVS1256	PCVS2256		PHDT5423										PCVS0258	PCVS1258	PCVS2258	
				PCVS0256	PCVS1256	PCVS2256		PHDT5406										PCVS0258	PCVS1258	PCVS2258	
				PCVS1256		PCVS2256		PHDT5404 (3)			PSVS2551	PSVS2571	PSVS2591					PCVS1258		PCVS2258	
					PCVS1256	PCVS2256		PHDT5407			PSVS2550	PSVS2570	PSVS2590						PCVS1258	PCVS2258	
							PCVS3256	PHDT5428 (3)			PSVS2553	PSVS2573	PSVS2593								PCVS3258
	PLVS3552	PLVS3572	PLVS3592		PCVS1356	PCVS2356															
								-	PPVS2600	PSHS1908											
								-													
								PHDT5431 (3)													
								PHDT5432 (3)													
								PHDT5425 (3)	PPVS2600	PSHS1908											
								PHDT5411 (3)													

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax T5 630A
VERTICAL INSTALLATION

				W=400mm												W=600mm		
					Segregation form												Segregation form	
					F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*	
										Vertical rear segregation			Vertical side segregation					
											With upright							
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator D (mm) 500	700	900	Without upright	Bars side	Exits side	D (mm) 500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf
Front/Rear terminals																		
350	3/4	F	1	PVBT5406	PPVS2350	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS1740	PRVS1741		PLVS1752	PLVS1772	PLVS1792	PVCT5406	PPVS2350	PSHS1906
	3/4	F - RHD	1	PVBT5406												PVCT5406		
	3/4	F - MO [1]	1	PVBT5404 [2]												PVCT5404 [2]		
	3/4	W	2	-												-		
	3/4	W	3	-												-		
	3	W	4	-												-		
	3/4	W - MO [1]	3	-												-		
	3	W - MO [1]	4	-												-		
400	3/4	P	1	-	PPVS2400	PSHS1904										PVCT5407	PPVS2400	PSHS1906
	3/4	P - MO [1]	1	PVBT5409 [2]												PVCT5409 [2]		
	3/4	W - MO [1]	1	-												PVCT5430 [2]		

[1] kit with recessed mounting plate.
[2] Only rear terminals.
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.

W=800mm																					W=1000mm		
										Segregation form												Segregation form	
F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*	
Terminals separator			Vertical rear segregation			Vertical side segregation			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator			Vertical rear segregation			Vertical side segregation			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf
D (mm)			Without upright	With upright		D (mm)						D (mm)			Without upright	With upright		D (mm)					
500	700	900		Bars side	Exits side	500	700	900				500	700	900		Bars side	Exits side	500	700	900			
PSHS6050	PSHS6070	PSHS6090	PRVS1760	PRVS1761	PRVS1762	PLVS1752	PLVS1772	PLVS1792	PVDT5406	PPVS2350	PSHS1908	PSHS8050	PSHS8070	PSHS8090	PRVS1780	PRVS1781	PRVS1782	PLVS1752	PLVS1772	PLVS1792	-	PPVS2350	PSHS1901
									PVDT5406												-		
									PVDT5404 [2]												-		
									PVDT5610												-		
									-												PVFT5710		
									-												PVFT5810		
									-												PVFT5712		
									-												PVFT5812		
PSHS6050	PSHS6070	PSHS6090	PRVS2060	PRVS2061	PRVS2062	PLVS2052	PLVS2072	PLVS2092	PVDT5407	PPVS2400	PSHS1908	PSHS8050	PSHS8070	PSHS8090	PRVS2080	PRVS2081	PRVS2082	PLVS2052	PLVS2072	PLVS2092	-		
									PVDT5409 [2]														
									PVDT5430 [2]												-		

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax T6
HORIZONTAL INSTALLATION

				W=400mm														W=600mm							
					Segregation form														Segregation form						
					F 2a - 3a*		F 3b							F 4b					F 2a - 3a*		F 3b				
														Rear cubicle										
														Mounting position										
														P0/P1	P0	P1	P2**							
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side	Side rear segregation			Breaker terminals				Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side
							D (mm)				D (mm)										D (mm)			
							500	700	900		500	700	900	Front	Rear						500	700	900	
Front/Rear terminals																								
300	3	F	1															PHCT6301	PPVS2300	PSHS1906	PSVS3050	PSVS3070	PSVS3090	PRVS3061
	3	F - RHD	1															PHCT6305						
	3	F - MO (1)	1															PHCT6304 (3)			PSVS5053	PSVS5073	PSVS5093	
350	3/4	F	1															PHCT6401	PPVS2350	PSHS1906	PSVS3550	PSVS3570	PSVS3590	PRVS3561
	3/4	F - RHD	1															PHCT6405						
	3/4	F - MO (1)	1															PHCT6404 (3)			PSVS3553	PSVS3573	PSVS3593	
	3	W (2)	1															PHCT6314			PSVS3550	PSVS3570	PSVS3590	
	3	W - RHD (2)	1															PHCT6314						
	3	W - MO (1) (2)	1															PHCT6312 (3)			PSVS3551	PSVS3571	PSVS3591	
500	3/4	W (2)	1															PHCT6410	PPVS2500	PSHS1906	PSVS5050	PSVS5070	PSVS5090	PRVS5061
	3/4	W - RHD (2)	1															PHCT6400						
	3/4	W - MO (1) (2)	1															PHCT6412 (3)			PSVS5052	PSVS5072	PSVS5092	
700	3/4	F - I	2															PHCT6402	PPVS2700	PSHS1906				
	3/4	F - I-MO (1)	2															PHCT6403 (3)						
	3/4	W - I (1) (2)	2															PHCT6425 (3)						
	3/4	W - I-MO (1) (2)	2															PHCT6411 (3)						

Attention: for interlocked circuit breakers kits the interlocking plate is not included.

(1) kit with recessed mounting plate.
(2) Front terminals only in Form 1, high terminal cover not available.
(3) Only rear terminals.
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.
** Alternatively, can be ordered cubicle P3; for details see page 5-50.

								W=800													
									Segregation form												
			F 4b						F 2a - 3a*		F 3b							F 4b			
			Rear cubicle															Rear cubicle			
Side rear segregation			Mounting position												Side rear segregation			Mounting position			
			P0/P1	P1	P2**	P3												P0/P1	P1	P2**	P3
D (mm)			Breaker terminals								D (mm)				D (mm)			Breaker terminals			
500	700	900	Front	Rear			Base kit (segregation form 1)		Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side							
											500	700	900		500	700	900				
PLVS3052	PLVS3072	PLVS3092	PCVS0306	PCVS1306	PCVS2306		PHDT6301		PPVS2300	PSHS1908	PSVS3050	PSVS3070	PSVS3090	PRVS3081	PLVS3052	PLVS3072	PLVS3092	PCVS0308	PCVS1308	PCVS2308	
			PCVS0306	PCVS1306	PCVS2306		PHDT6305											PCVS0308	PCVS1308	PCVS2308	
			PCVS1306		PCVS2306		PHDT6304 (3)				PSVS5053	PSVS5073	PSVS5093					PCVS1308		PCVS2308	
PLVS3552	PLVS3572	PLVS3592	PCVS0356	PCVS1356	PCVS2356		PHDT6401		PPVS2350	PSHS1908	PSVS3550	PSVS3570	PSVS3590	PRVS3581	PLVS3552	PLVS3572	PLVS3592	PCVS0358	PCVS1358	PCVS2358	
			PCVS0356	PCVS1356	PCVS2356		PHDT6405											PCVS0358	PCVS1358	PCVS2358	
			PCVS1356		PCVS2356		PHDT6404 (3)				PSVS3553	PSVS3573	PSVS3593					PCVS1358		PCVS2358	
				PCVS1356	PCVS2356		PHDT6314				PSVS3550	PSVS3570	PSVS3590						PCVS1358	PCVS2358	
				PCVS1356	PCVS2356		PHDT6314												PCVS1358	PCVS2358	
						PCVS3356	PHDT6312 (3)				PSVS3551	PSVS3571	PSVS3591								PCVS3358
PLVS5052	PLVS5072	PLVS5092		PCVS1506	PCVS2506		PHDT6414		PPVS2500	PSHS1908	PSVS5050	PSVS5070	PSVS5090	PRVS5081	PLVS5052	PLVS5072	PLVS5092		PCVS1508	PCVS2508	
				PCVS1506	PCVS2506		PHDT6414												PCVS1508	PCVS2508	
						PCVS3506	PHDT6412 (3)				PSVS5052	PSVS5072	PSVS5092								PCVS3508
							PHDT6402		PPVS2700	PSHS1908											
							PHDT6403 (3)														
							-														
							-														

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax T6
VERTICAL INSTALLATION

				W=400mm												W=600mm			
					Segregation form												Segregation form		
					F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*		
										Vertical rear segregation			Vertical side segregation						
											With upright								
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator D (mm) 500	700	900	Without upright	Bars side	Exits side	D (mm) 500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	
Front/Rear terminals																			
400	3/4	F	1	PVBT6401	PPVS2400	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS2040	PRVS2041		PLVS2052	PLVS2072	PLVS2092	PVCT6401	PPVS2400	PSHS1906	
	3/4	F - RHD	1	PVBT6405												PVCT6405			
	3/4	F - MO [1]	1	PVBT6404 [3]												PVCT6404 [3]			
450	3/4	W [2]	2	-	PPVS2450	PSHS1904										-	PPVS2450	PSHS1906	
	3/4	W - MO [1] [2]	2	-												-			
	3	W [2]	1	PVBT6314			PSHS4050	PSHS4070	PSHS4090	PRVS2240	PRVS2241		PLVS2252	PLVS2272	PLVS2292	-			
	3	W - MO [1] [2]	1	PVBT6312 [3]												-			
	3	W - RHD [2]	1	PVBT6314			PSHS4050	PSHS4070	PSHS4090	PRVS2240	PRVS2241		PLVS2252	PLVS2272	PLVS2292	-			
	3/4	W [2]	1	-												PVCT6414			
	3/4	W - MO [1] [2]	1	-												PVCT6412 [3]			
	3/4	W - RHD [2]	1	-												PVCT6414			

[1] kit with recessed mounting plate.
[2] Front terminals only in Form 1, high terminal cover not available.
[3] Only rear terminals.
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.

										W=800mm												W=1000mm		
											Segregation form												Segregation form	
	F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*	
	Terminals separator			Vertical rear segregation			Vertical side segregation						Terminals separator			Vertical rear segregation			Vertical side segregation					
					With upright												With upright							
	D (mm)			Without upright			D (mm)			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	D (mm)			Without upright			D (mm)			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf
	500	700	900		Bars side	Exits side	500	700	900				500	700	900		Bars side	Exits side	500	700	900			
	PSHS6050	PSHS6070	PSHS6090	PRVS2060	PRVS2061	PRVS2062	PLVS20 2	PLVS2072	PLVS2092	PVDT6401	PPVS2400	PSHS1908	PSHS8050	PSHS8070	PSHS8090	PRVS2080	PRVS2081	PRVS2082	PLVS2052	PLVS2072	PLVS2092	-		
										PVDT6405												-		
										PVDT6404 (3)												-		
										-	PPVS2450	PSHS1908										PVFT6610	PPVS2450	PSHS1901
										-												PVFT6612		
	PSHS6050	PSHS6070	PSHS6090	PRVS2260	PRVS2261	PRVS2262	PLVS2252	PLVS2272	PLVS2292	-			PSHS8050	PSHS8070	PSHS8090	PRVS2280	PRVS2281	PRVS2282	PLVS2252	PLVS2272	PLVS2292	-		
										-												-		
	PSHS6050	PSHS6070	PSHS6090	PRVS2260	PRVS2261	PRVS2262	PLVS2252	PLVS2272	PLVS2292	-			PSHS8050	PSHS8070	PSHS8090	PRVS2280	PRVS2281	PRVS2282	PLVS2252	PLVS2272	PLVS2292	-		
										PVDT6414												-		
										PVDT6412 (3)												-		
										PVDT6414												-		

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Tmax T7

HORIZONTAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	W=400mm Base kit (segregation form 1)	Segregation form F 2a - 3a* Cell side closing	Universal horizontal shelf	F 3b Terminals separator D (mm) 500	700	900	Rear segregation bars side	Side rear segregation D (mm) 500	700	900	F 4b Rear cubicle Mounting position P0/P1 Breaker terminals Front	Rear	P0	P1	P2	W=600mm Base kit (segregation form 1)	Segregation form F 2a - 3a* Cell side closing	Universal horizontal shelf	F 3b Terminals separator D (mm) 500	700	900	Rear segregation bars side
Front/Rear terminals																									
300	3	F	1																PHCT7329	PPVS2300	PSHS1906	PSVS3050	PSVS3070	PSVS3090	PRVS3061
	3	F - I	1																PHCT7329						
	3	F - I-MO	1																PHCT7329						
	3	F - MO	1																PHCT7329						
	3	F - RHD	1																PHCT7329						
350	3/4	F	1																PHCT7420	PPVS2350	PSHS1906	PSVS3550	PSVS3570	PSVS3590	PRVS3561
	3/4	F - MO	1																PHCT7420						
	3/4	F - RHD	1																PHCT7420						
400	3/4	F - I	1																PHCT7418	PPVS2400	PSHS1906	PSVS4050	PSVS4070	PSVS4090	PRVS4061
	3/4	F - I-MO	1																PHCT7418						
500	3/4	W [2]	1																PHCT7430	PSHW5061			PSVS0055	PSVS0057	PRVS5061
	3/4	W - I [2]	1																PHCT7430						
	3/4	W - I-MO [2]	1																PHCT7430						
	3/4	W - MO [2]	1																PHCT7430						
	3/4	W - RHD [2]	1																PHCT7430						

VERTICAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	W=400mm Base kit (segregation form 1)	Segregation form F 2a - 3a* Cell side closing	Universal horizontal shelf	F 3b (for form 4b order the double of the vertical rear and side segregations) Terminals separator D (mm) 500	700	900	Vertical rear segregation Without upright	With upright Bars side	Exits side	Vertical side segregation D (mm) 500	700	900	W=600mm Base kit (segregation form 1)	Segregation form F 2a - 3a* Cell side closing	Universal horizontal shelf
Front/Rear terminals																		
450	3/4	F	1													PVCT7419	PPVS2450	PSHS1906
	3/4	F - I	1													PVCT7419		
	3/4	F - I-MO	1													PVCT7419		
	3/4	F - MO	1													PVCT7419		
500	3/4	W [2]	2													-	PSVW5061	
	3/4	W - MO [2]	2													-		
	3/4	W [2]	1													PVCT7413		
	3/4	W - I [2]	1													PVCT7413		
	3/4	W - I-MO [2]	1													PVCT7413		
	3/4	W - MO [2]	1													PVCT7413		

[2] Only rear terminals.

* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b..

** Alternatively, can be ordered cubicle P3; for details see page 5-50.

W=800																								
								Segregation form																
			F 4b					F 2a - 3a*		F 3b											F 4b			
			Rear cubicle																		Rear cubicle			
Side rear segregation			Mounting position							Terminals separator				Side rear segregation							Mounting position			
D (mm)			P0/P1	P0	P1	P2**				D (mm)				D (mm)							P0/P1	P0	P1	P2**
			Breaker terminals																		Breaker terminals			
500	700	900	Front	Rear			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900	Rear segregation bars side	500	700	900	Front	Rear						
	PLVS3052		PCVS0306		PCVS1306	PCVS2306	PHDT7329	PPVS2300	PSHS1908		PSVS3070	PSVS3090	PRVS3081		PLVS3072		PCVS0308		PCVS1308	PCVS2308				
			PCVS0306		PCVS1306	PCVS2306	PHDT7329			PSVS3050				PLVS3052		PLVS3092	PCVS0308		PCVS1308	PCVS2308				
			PCVS0306		PCVS1306	PCVS2306	PHDT7329										PCVS0308		PCVS1308	PCVS2308				
			PCVS0306		PCVS1306	PCVS2306	PHDT7329										PCVS0308		PCVS1308	PCVS2308				
			PCVS0306		PCVS1306	PCVS2306	PHDT7329										PCVS0308		PCVS1308	PCVS2308				
	PLVS3552		PCVS0356		PCVS1356	PCVS2356	PHDT7420	PPVS2350	PSHS1908		PSVS3570	PSVS3590	PRVS3581		PLVS3572		PCVS0358		PCVS1358	PCVS2358				
			PCVS0356		PCVS1356	PCVS2356	PHDT7420			PSVS3550				PLVS3552		PLVS3592	PCVS0358		PCVS1358	PCVS2358				
			PCVS0356		PCVS1356	PCVS2356	PHDT7420										PCVS0358		PCVS1358	PCVS2358				
	PLVS4052		PCVS0406		PCVS1406	PCVS2406	PHDT7418	PPVS2400	PSHS1908		PSVS4070	PSVS4090	PRVS4081		PLVS4072		PCVS0408		PCVS1408	PCVS2408				
			PCVS0406		PCVS1406	PCVS2406	PHDT7418			PSVS4050				PLVS4052		PLVS4092	PCVS0408		PCVS1408	PCVS2408				
					PCVS5060		PHDT7430												PCVS5080					
		PLVS5072			PCVS5060		PHDT7430												PCVS5080					
					PCVS5060		PHDT7430	PSHW5081			PSVS0055	PSVS0057	PRVS5081		PLVS5072				PCVS5080					
					PCVS5060		PHDT7430												PCVS5080					
					PCVS5060		PHDT7430												PCVS5080					

W=800mm																								W=1000mm		
									Segregation form																Segregation form	
F 3b (for form 4b order the double of the vertical rear and side segregations)									F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)														F 2a - 3a*	
			Vertical rear segregation			Vertical side segregation								Vertical rear segregation			Vertical side segregation									
Terminals separator				With upright							Terminals separator				With upright											
D (mm)			Without upright			D (mm)					D (mm)			Without upright			D (mm)									
500	700	900		Bars side	Exits side	500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900		Bars side	Exits side	500	700	900					Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf
	PSHS6050		PRVS2260	PRVS2261	PRVS2262	PLVS2252	PLVS2272	PLVS2292	PVDT7419	PPVS2450	PSHS1908	PSHS8050	PSHS8070	PSHS8090	PRVS2280	PRVS2251	PRVS2282	PLVS2252	PLVS2272	PLVS2292					-		
									PVDT7419																-		
									PVDT7419																-		
									PVDT7419																-		
	PSHW6051		PRVS2560	PRVS2561	PRVS2562	PLVS2552	PLVS2572	PLVS2592	-	PSVW5081		PSHW8051	PSHW8071	PSHW8091	PRVS2580	PRVS2581	PRVS2582	PLVS2552	PLVS2572	PLVS2592					PVFT7633		
									-																PVFT7633		
									PVDT7413																-		
									PVDT7413																-		
									PVDT7413																-		
									PVDT7413																-		

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Emax E1.2
HORIZONTAL INSTALLATION

				W=400mm														W=600mm						
				Segregation form														Segregation form						
				F 2a - 3a*		F 3b						F 4b						F 2a - 3a*		F 3b				
												Rear cubicle												
												Mounting position												
												P0/P1	P0		P1	P2**								
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator D (mm) 500	700	900	Rear segregation bars side	Side rear segregation D (mm) 500	700	900	Breaker terminals Front	Rear			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator D (mm) 500	700	900	Rear segregation bars side
Front/Rear terminals																								
400	3/4	F	1															PHCE1241	PPVS2400	PSHS1906	PSVS4050	PSVS4070	PSVS4090	PRVS4061
	3/4	F - I	1															PHCE1241						
500	3/4	W [2]	1															PHCE1240	PSHW5061			PSVS0055	PSVS0057	PRVS5061
	3/4	W - I [2]	1															PHCE1240						

VERTICAL INSTALLATION

				W=400mm														W=600mm						
				Segregation form														Segregation form						
				F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)												F 2a - 3a*						
										Vertical rear segregation				Vertical side segregation										
											With upright													
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator D (mm) 500	700	900	Without upright	Bars side	Exits side		D (mm) 500	700	900		Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf				
Front/Rear terminals																								
450	3/4	F	2	-	PPVS2450	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS2240	PRVS2241			PLVS2252	PLVS2272	PLVS2292		-	PPVS2450	PSHS1906				
	3/4	F	1	PVBE1241														PVCE1241						
	3/4	F - I	1	PVBE1241														PVCE1241						
500	3/4	W [2]	2	-														-	PSVW5061					
	3/4	W [2]	1	-														PVCE1240						
	3/4	W - I [2]	1	-														PVCE1240						

[2] Only rear terminals.
* Obbligatorio ogni volta che i kit interruttori hanno piastre distanti più di 38mm o per segregazioni Forma 4b.
** Alternatively, can be ordered cubicle P3; for details see page 5-50.

W=800																								
								Segregation form																
			F 4b					F 2a - 3a*		F 3b					F 4b									
			Rear cubicle												Rear cubicle									
Side rear segregation			Mounting position											Side rear segregation			Mounting position							
			P0/P1	P0	P1	P2**				Terminals separator							P0/P1	P0	P1	P2**				
D (mm)			Breaker terminals							D (mm)				D (mm)			Breaker terminals							
500	700	900	Front	Rear			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900	Rear segregation bars side	500	700	900	Front	Rear			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	
PLVS4052	PLVS4072	PLVS4092	PCVS0406		PCVS1406	PCVS2406	PHDE1241	PPVS2400	PSHS1908	PSVS4050	PSVS4070	PSVS4090	PRVS4081	PLVS4052	PLVS4072	PLVS4092	PCVS0408		PCVS1408	PCVS2408	PHDE1241	PPVS2400	PSHS1908	
			PCVS0406		PCVS1406	PCVS2406	PHDE1241										PCVS0408		PCVS1408	PCVS2408	PHDE1241			
	PLVS5072	PLVS5092			PCVS5060		PHDE1240	PSHW5081			PSVS0055	PSVS0057	PRVS5081		PLVS5072	PLVS5092			PCVS5080		PHDE1240	PSHW5081		
					PCVS5060		PHDE1240												PCVS5080		PHDE1240			

W=800mm																					W=1000mm			
									Segregation form													Segregation form		
F 3b (for form 4b order the double of the vertical rear and side segregations)									F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)											F 2a - 3a*		
Terminals separator			Vertical rear segregation			Vertical side segregation					Terminals separator			Vertical rear segregation			Vertical side segregation						
				With upright											With upright									
D (mm)						D (mm)					D (mm)						D (mm)							
500	700	900	Without upright	Bars side	Exits side	500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	500	700	900	Without upright	Bars side	Exits side	500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf
PSHS6050	PSHS6070	PSHS6090	PRVS2260	PRVS2261	PRVS2262	PLVS2252	PLVS2272	PLVS2292	PVDE1262												-		
									PVDE1241	PPVS2450	PSHS1908	PSHS8050	PSHS8070	PSHS8090	PRVS2280	PRVS2251	PRVS2282	PLVS2252	PLVS2272	PLVS2292	-		
									PVDE1241												-		
PSHW6051	PSHW6071	PSHW6091	PRVS2560	PRVS2561	PRVS2562	PLVS2552	PLVS2572	PLVS2592	-	PSVW5081		PSHW8051	PSHW8071	PSHW8091	PRVS2580	PRVS2581	PRVS2582	PLVS2552	PLVS2572	PLVS2592	PVFE1263		
									PVDE1240												-		
									PVDE1240												-		

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Emax E2.2
VERTICAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	W=400mm												W=600mm		
				Segregation form													Segregation form	
				F 2a - 3a*	F 3b (for form 4b order the double of the vertical rear and side segregations)												F 2a - 3a*	
					Terminals separator			Vertical rear segregation			Vertical side segregation							
					D (mm)				With upright			D (mm)						
				Base kit (segregation form 1)	No.2 horizontal shelves No.1 back plate No.2 side shelves	500	700	900	Without upright	Bars side	Exits side	500	700	900	Base kit (segregation form 1)	No.2 horizontal shelves No.1 back plate No.2 side shelves	
Front/Rear terminals																		
600	3/4	F	1												PVCE2441	PSVF6062	
	3/4	F - I	1												PVCE2441		
	3/4	W	1												PVCE2450	PSVW6062	
	3/4	W - I	1												PVCE2450		

Emax E4.2
VERTICAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	W=400mm												W=600mm		
				Segregation form													Segregation form	
				F 2a - 3a*	F 3b (for form 4b order the double of the vertical rear and side segregations)												F 2a - 3a*	
					Terminals separator			Vertical rear segregation			Vertical side segregation							
					D (mm)				With upright			D (mm)						
				Base kit (segregation form 1)	No.2 horizontal shelves No.1 back plate No.2 side shelves	500	700	900	Without upright	Bars side	Exits side	500	700	900	Base kit (segregation form 1)	No.2 horizontal shelves No.1 back plate No.2 side shelves	
Front/Rear terminals																		
600	3/4	F	1												PVCE2442	PSVF6062	
	3/4	F - I	1												-		
	3	W	1												PVCE4350	PSVW6062	
	3	W - I	1												PVCE4350		
	3/4	W	1												-		
	3/4	W - I	1												-		

* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.

										W=800mm											W=1000mm			
											Segregation form											Segregation form		
	F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)									F 2a - 3a*		
	Terminals separator			Vertical rear segregation			Vertical side segregation						Terminals separator			Vertical rear segregation			Vertical side segregation					
					With upright												With upright							
	D (mm)			Without upright			D (mm)			Base kit (segregation form 1)	No.2 horizontal shelves No.1 back plate No.2 side shelves		D (mm)			Without upright			D (mm)			Base kit (segregation form 1)	No.2 horizontal shelves No.1 back plate No.2 side shelves	
	500	700	900		Bars side	Exits side	500	700	900				500	700	900		Bars side	Exits side	500	700	900			
		PSHF6072	PSHF6092	PRVS3060	PRVS3061	PRVS3062		PLVS3072	PLVS3092	PVDE2441	PSVF6082			PSHF8072	PSHF8092	PRVS3080	PRVS3081	PRVS3082		PLVS3072	PLVS3092			
										PVDE2441														
		PSHW6072	PSHW6092							PVDE2440	PSVW6082			PSHW8072	PSHW8092									
										PVDE2440														

										W=800mm											W=1000mm			
											Segregation form											Segregation form		
	F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*		F 3b (for form 4b order the double of the vertical rear and side segregations)									F 2a - 3a*		
	Terminals separator			Vertical rear segregation			Vertical side segregation						Terminals separator			Vertical rear segregation			Vertical side segregation					
					With upright												With upright							
	D (mm)			Without upright			D (mm)			Base kit (segregation form 1)	No.2 horizontal shelves No.1 back plate No.2 side shelves		D (mm)			Without upright			D (mm)			Base kit (segregation form 1)	No.2 horizontal shelves No.1 back plate No.2 side shelves	
	500	700	900		Bars side	Exits side	500	700	900				500	700	900		Bars side	Exits side	500	700	900			
		PSHF6072	PSHF6092	PRVS3060	PRVS3061	PRVS3062		PLVS3072	PLVS3092	PVDE2441	PSVF6082			PSHF8072	PSHF8092	PRVS3080	PRVS3081	PRVS3082		PLVS3072	PLVS3092			
										PVDE2441														
		PSHW6074	PSHW6094							-	PSVW6082			PSHW8074	PSHW8094									
										-														
										PVDE2440														
										PVDE2440														

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Emax E6.2
VERTICAL INSTALLATION

				W=1000mm												W=1250mm											
					Segregation form												Segregation form										
					F 2a - 3a*	F 3b (for form 4b order the double of the vertical rear and side segregations)											F 2a - 3a*	F 3b (for form 4b order the double of the vertical rear and side segregations)									
						Terminals separator			Vertical rear segregation			Vertical side segregation						Terminals separator			Vertical rear segregation			Vertical side segregation		
										With upright												With upright				
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	No.2 horizontal shelves No.1 back plate No.2 side shelves	D (mm)			Without upright	Bars side	Exits side	D (mm)			Base kit (segregation form 1)	No.2 horizontal shelves No.1 back plate No.2 side shelves	D (mm)			Without upright	Bars side	Exits side	D (mm)			
						500	700	900				500	700	900			500	700	900				500	700	900		
Front/Rear terminals																											
700	3/4 HS	F	1	PVFE6231	PSVF7016			PSHF1096	PRVS3510					PLVS3592	-	PSVF7126			PSHF1296	PRVS3501					PLVS3592		
	4 FS	F	1	-											PVGE6231												
	3	F - I	1	PVFE6231				PSHF1096							-				PSHF1296								
	4 HS/FS	F - I	1	-											PVGE6231												
	3	W	1	PVFE6230	PSVW7016			PSHW1096							-	PSVW7126			PSHW1296								
	4 HS/FS	W	1	-											PVGE6230												
	3	W - I	1	PVFE6230				PSHW1096							-				PSHW1296								
	4 HS/FS	W - I	1	-											PVGE6230												

* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.
HS = Neutral 50%
FS = Neutral 100%

OT
VERTICAL INSTALLATION

									W=600mm				W=800mm			
											Segregation form				Segregation form	
											F 2a - 3a*				F 2a - 3a*	
Cell height (mm)	Switch	No. of poles	Execution	Accessory	No. of switches per cell	Handle maximum lenght (mm)	Shaft minimum lenght (mm)	Lever position	Base kit (segregation form 1)	High terminals covers	Cell side closing	Universal horizontal shelf	Base kit (segregation form 1)	High terminals covers	Cell side closing	Universal horizontal shelf
Attacchi Front																
250	OT160EV	3/4	F	RHE	1	80 (Ø6)	130 (Ø6)	E03-E04	PKOH1660	SI	PPVS2250	PSHS1906	PKOH1680	SI	PPVS2250	PSHS1908
	OT200	3/4	F	RHE	1	80 (Ø6)	130 (Ø6)	E03-E04	PKOH1660	SI	PPVS2250	PSHS1906	PKOH1680	SI	PPVS2250	PSHS1908
	OT250	3/4	F	RHE	1	80 (Ø6)	130 (Ø6)	E03-E04	PKOH1660	SI	PPVS2250	PSHS1906	PKOH1680	SI	PPVS2250	PSHS1908
300	OT315	3/4	F	RHE	1	175 (Ø12)	95 (Ø12)	E03-E04	PKOH3160	SI	PPVS2300	PSHS1906	PKOH3180	SI	PPVS2300	PSHS1908
	OT400	3/4	F	RHE	1	175 (Ø12)	95 (Ø12)	E03-E04	PKOH3160	SI	PPVS2300	PSHS1906	PKOH3180	SI	PPVS2300	PSHS1908
500	OT630	3/4	F	RHE	1	175 (Ø12)	70 (Ø12)	E03-E04	PKOH6360	SI	PPVS2500	PSHS1906	PKOH6380	SI	PPVS2500	PSHS1908
	OT800	3/4	F	RHE	1	175 (Ø12)	70 (Ø12)	E03-E04	PKOH6360	SI	PPVS2500	PSHS1906	PKOH6380	SI	PPVS2500	PSHS1908
600	OT1000	3/4	F [1]	RHE	1	175 (Ø12)	170 (Ø12)	E12-E22	PKOH1060	NO			PKOH1080	SI	PPVS2600	PSHS1908
	OT1250	3/4	F [1]	RHE	1	175 (Ø12)	170 (Ø12)	E12-E22	PKOH1060	NO			PKOH1080	SI	PPVS2600	PSHS1908
	OT1600	3/4	F [1]	RHE	1	175 (Ø12)	170 (Ø12)	E12-E22	PKOH1060	NO			PKOH1080	SI	PPVS2600	PSHS1908

HORIZONTAL INSTALLATION

									W=600mm				W=800mm			
											Segregation form				Segregation form	
											F 2a - 3a*				F 2a - 3a*	
Cell height (mm)	Switch	No. of poles	Execution	Accessory	No. of switches per cell	Handle maximum lenght (mm)	Shaft minimum lenght (mm)	Lever position	Base kit (segregation form 1)	High terminals covers	Cell side closing	Universal horizontal shelf	Base kit (segregation form 1)	High terminals covers	Cell side closing	Universal horizontal shelf
Attacchi Front																
250	OT160EV	3/4	F	RHE	1	80 (Ø6)	130 (Ø6)	E03-E04	PKOV1660	SI	PPVS2350	PSHS1906	PKOV1680	SI	PPVS2350	PSHS1908
	OT200	3/4	F	RHE	1	80 (Ø6)	130 (Ø6)	E03-E04	PKOV1660	SI	PPVS2350	PSHS1906	PKOV1680	SI	PPVS2350	PSHS1908
	OT250	3/4	F	RHE	1	80 (Ø6)	130 (Ø6)	E03-E04	PKOV1660	SI	PPVS2350	PSHS1906	PKOV1680	SI	PPVS2350	PSHS1908
300	OT315	3/4	F	RHE	1	175 (Ø12)	95 (Ø12)	E03-E04	PKOV3160	SI	PPVS2450	PSHS1906	PKOV3180	SI	PPVS2450	PSHS1908
	OT400	3/4	F	RHE	1	175 (Ø12)	95 (Ø12)	E03-E04	PKOV3160	SI	PPVS2450	PSHS1906	PKOV3180	SI	PPVS2450	PSHS1908
500	OT630	3/4	F	RHE	1	175 (Ø12)	70 (Ø12)	E03-E04	PKOV6360	SI	PPVS2500	PSHS1906	PKOV6380	SI	PPVS2500	PSHS1908
	OT800	3/4	F	RHE	1	175 (Ø12)	70 (Ø12)	E03-E04	PKOV6360	SI	PPVS2500	PSHS1906	PKOV6380	SI	PPVS2500	PSHS1908
600	OT1000	3/4	F [1]	RHE	1	175 (Ø12)	170 (Ø12)	E12-E22	PKOV1060	SI	PPVS2600	PSHS1906	PKOV1080	SI	PPVS2600	PSHS1908
	OT1250	3/4	F [1]	RHE	1	175 (Ø12)	170 (Ø12)	E12-E22	PKOV1060	SI	PPVS2600	PSHS1906	PKOV1080	SI	PPVS2600	PSHS1908
	OT1600	3/4	F [1]	RHE	1	175 (Ø12)	170 (Ø12)	E12-E22	PKOV1060	SI	PPVS2600	PSHS1906	PKOV1080	SI	PPVS2600	PSHS1908

[1] kit with recessed mounting plate.
* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

GUIDA DIN

SEGREGATION IN STRUCTURE WITH HORIZONTAL BREAKERS

	W=400mm											W=600mm				
			Segregation form											Segregation form		
			F 2a - 3a*		F 3b									F 2a - 3a*		
Cell height (mm)	Panel	DIN rail kit (Segregation form 1)	Cell side closing Front segregations	Universal horizontal shelf	Terminals separator D (mm) 500	Terminals separator D (mm) 700	Terminals separator D (mm) 900	Rear segregation bars side	Side rear segregation D (mm) 500	Side rear segregation D (mm) 700	Side rear segregation D (mm) 900	Panel	DIN rail kit (Segregation form 1)	Cell side closing Front segregations	Universal horizontal shelf horzontal	
150	PPMF1540	PDRS0400										PPMF1560	PDRS0600			
200	PPMF2040	PDRS0400	PPDS0200 + PFVS2042	PSHS1904	PSVS2070	PSVS2070	PSVS2070	PRVS2041	PLVS2052	PLVS2072	PLVS2092	PPMF2060	PDRS0600	PPDS0200 + PFVS2062	PSHS1906	
300												PPMU3060	PDRS0600			
	PPMF3040	2xPDRS0400										PPMF3060	2xPDRS0600			
	PPMD3040	PDRS0400										PPMD3060	PDRS0600			

SEGREGATION IN STRUCTURE WITH VERTICAL BREAKERS

	W=400mm										W=600mm				
			Segregation form										Segregation form		
			F 2a - 3a*		F 3b								F 2a - 3a*		
					Vertical rear segregation			Vertical side segregation							
						With upright									
								D (mm)							
Cell height (mm)	Panel	DIN rail kit (Segregation form 1)	Cell side closing Front segregations	Universal horizontal shelf	Without upright	Bars side	Exits side	500	700	900	Panel	DIN rail kit (Segregation form 1)	Cell side closing Front segregations	Universal horizontal shelf	
150	PPMF1540	PDRS0400									PPMF1560	PDRS0600			
200	PPMF2040	PDRS0400	PPDS0200 + PFVS2042	PSHS1904	PRVS2040	PRVS2041		PLVS2052	PLVS2072	PLVS2092	PPMF2060	PDRS0600	PPDS0200 + PFVS2062	PSHS1906	
300											PPMU3060	PDRS0600			
	PPMF3040	2xPDRS0400									PPMF3060	2xPDRS0600			
	PPMD3040	PDRS0400									PPMD3060	PDRS0600			

* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.

								W=800mm											
										Segregation form									
	F 3b									F 2a - 3a*		F 3b							
	Terminals separator			Rear segregation bars side	Side rear segregation							Terminals separator			Rear segregation bars side	Side rear segregation			
	D (mm)				D (mm)							D (mm)				D (mm)			
	500	700	900		500	700	900	Panel	DIN rail kit (Segregation form 1)	Cell side closing Front segregations	Universal horizontal shelf	500	700	900		500	700	900
								PPMF1580	PDRS0800									
	PSVS2050	PSVS2070	PSVS2090	PRVS2061	PLVS2052	PLVS2072	PLVS2092	PPMF2080	PDRS0800	PPDS0200 + PFVS2082	PSHS1908	PSVS2050	PSVS2070	PSVS2090	PRVS2081	PLVS2052	PLVS2072	PLVS2092
								PPMU3080	PDRS0800									
								PPMF3080	2xPDRS0800									
								PPMD3080	PDRS0800									

								W=800mm											
										Segregation form									
	F 3b									F 2a - 3a*		F 3b							
	Vertical rear segregation				Vertical side segregation							Vertical rear segregation				Vertical side segregation			
		With upright											With upright						
	Without upright	Bars side	Exits side		D (mm)			Panel	DIN rail kit (Segregation form 1)	Cell side closing Front segregations	Universal horizontal shelf	Without upright	Bars side	Exits side		D (mm)		
					500	700	900									500	700	900
								PPMF1580	PDRS0800									
	PRVS2060	PRVS2061	PRVS2062		PLVS2052	PLVS2072	PLVS2092	PPMF2080	PDRS0800	PPDS0200 + PFVS2082	PSHS1908	PRVS2080	PRVS2081	PRVS2082		PLVS2052	PLVS2072	PLVS2092
								PPMU3080	PDRS0800									
								PPMF3080	2xPDRS0800									
								PPMD3080	PDRS0800									

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Blind mounting plate
HORIZONTAL SEGREGATION

Cell height (mm)	W=400mm									W=600mm									W=800mm					
	Segregation form									Segregation form									Segregation form					
	F 2a - 3a*		F 3b							F 2a - 3a*		F 3b							F 2a - 3a*		F 3b			
	Plate (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side	Side rear segregation		Plate (Segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side	Side rear segregation		Plate (Segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator		
				D (mm)				D (mm)					D (mm)				D (mm)					D (mm)		
				500	700	900		500	700	900				500	700	900		500	700	900			500	700	900
150	PPMB1540	2xPPRS0150	PSHS1904								PPMB1560	2xPPRS0150	PSHS1906							PPMB1580	2xPPRS0150	PSHS1908			
200	PPMB2040	PPVS2200	PSHS1904	PSVS2050	PSVS2070	PSVS2090	PRVS2041	PLVS2052	PLVS2072	PLVS2092	PPMB2060	PPVS2200	PSHS1906	PSVS2050	PSVS2070	PSVS2090	PRVS2061	PLVS2052	PLVS2072	PLVS2092	PPMB2080	PPVS2200	PSHS1908	PSVS2050	PSVS2070	PSVS2090
250	PPMB2540	PPVS2250	PSHS1904	PSVS2550	PSVS2570	PSVS2590	PRVS2541	PLVS2552	PLVS2572	PLVS2592	PPMB2560	PPVS2250	PSHS1906	PSVS2550	PSVS2570	PSVS2590	PRVS2561	PLVS2552	PLVS2572	PLVS2592	PPMB2580	PPVS2250	PSHS1908	PSVS2550	PSVS2570	PSVS2590
300	PPMB3040	PPVS2300	PSHS1904	PSVS3050	PSVS3070	PSVS3090	PRVS3041	PLVS3052	PLVS3072	PLVS3092	PPMB3060	PPVS2300	PSHS1906	PSVS3050	PSVS3070	PSVS3090	PRVS3061	PLVS3052	PLVS3072	PLVS3092	PPMB3080	PPVS2300	PSHS1908	PSVS3050	PSVS3070	PSVS3090
350																										
400	PPMB4040	PPVS2400	PSHS1904	PSVS4050	PSVS4070	PSVS4090	PRVS4041	PLVS4052	PLVS4072	PLVS4092	PPMB4060	PPVS2400	PSHS1906	PSVS4050	PSVS4070	PSVS4090	PRVS4061	PLVS4052	PLVS4072	PLVS4092	PPMB4080	PPVS2400	PSHS1908	PSVS4050	PSVS4070	PSVS4090
500	PPBM5004	PPVS2500	PSHS1904	PSVS5050	PSVS5070	PSVS5090	PRVS5041	PLVS5052	PLVS5072	PLVS5092	PPBM5006	PPVS2500	PSHS1906	PSVS5050	PSVS5070	PSVS5090	PRVS5061	PLVS5052	PLVS5072	PLVS5092	PPBM5008	PPVS2500	PSHS1908	PSVS5050	PSVS5070	PSVS5090
600	PPMB6040	PPVS2600	PSHS1904	PSVS6050	PSVS6070	PSVS6090	PRVS6041	PLVS6052	PLVS6072	PLVS6092	PPMB6060	PPVS2600	PSHS1906	PSVS6050	PSVS6070	PSVS6090	PRVS6061	PLVS6052	PLVS6072	PLVS6092	PPMB6080	PPVS2600	PSHS1908	PSVS6050	PSVS6070	PSVS6090

* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.

					W=1000mm									W=1250mm								
						Segregation form									Segregation form							
						F 2a - 3a*	F 3b							F 2a - 3a*	F 3b							
	Rear segregation bars side	Side rear segregation			Plate (Segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side	Side rear segregation			Plate (Segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side	Side rear segregation		
		D (mm)						D (mm)				D (mm)						D (mm)				D (mm)		
		500	700	900				500	700	900		500	700	900				500	700	900		500	700	900
	PRVS2081	PLVS2052	PLVS2072	PLVS2092	PPMB2010	PPVS2200	PSHS1901	PSVS2050	PSVS2070	PSVS2090		PLVS2052	PLVS2072	PLVS2092	PPMB2012	PPVS2200		PSVS2050	PSVS2070	PSVS2090		PLVS2052	PLVS2072	PLVS2092
	PRVS2581	PLVS2552	PLVS2572	PLVS2592											PPMB2512	PPVS2250		PSVS2550	PSVS2570	PSVS2590		PLVS2552	PLVS2572	PLVS2592
	PRVS3081	PLVS3052	PLVS3072	PLVS3092	PPMB3010	PPVS2300	PSHS1901	PSVS3050	PSVS3070	PSVS3090		PLVS3052	PLVS3072	PLVS3092	PPMB3012	PPVS2300		PSVS3050	PSVS3070	PSVS3090		PLVS3052	PLVS3072	PLVS3092
															PPMB3512	PPVS2350		PSVS3550	PSVS3570	PSVS3590		PLVS3552	PLVS3572	PLVS3592
	PRVS4081	PLVS4052	PLVS4072	PLVS4092	PPMB4010	PPVS2400	PSHS1901	PSVS4050	PSVS4070	PSVS4090		PLVS4052	PLVS4072	PLVS4092										
	PRVS5081	PLVS5052	PLVS5072	PLVS5092	PPBM5001	PPVS2500	PSHS1901	PSVS5050	PSVS5070	PSVS5090		PLVS5052	PLVS5072	PLVS5092										
	PRVS6081	PLVS6052	PLVS6072	PLVS6092	PPMB6010	PPVS2600	PSHS1901	PSVS6050	PSVS6070	PSVS6090		PLVS6052	PLVS6072	PLVS6092										

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Blind mounting plate
VERTICAL SEGREGATION

	W=400mm									W=600mm									W=800mm			
	Segregation form									Segregation form									Segregation form			
	F 2a - 3a*		F 3b							F 2a - 3a*		F 3b							F 2a - 3a*			
			Vertical rear segregation				Vertical side segregation					Vertical rear segregation				Vertical side segregation						
				With upright									With upright									
						D (mm)								D (mm)								
Cell height (mm)	Plate (Segregation form 1)	Cell side closing	Universal horizontal shelf	Without upright	Bars side	Exits side	500	700	900	Plate (Segregation form 1)	Cell side closing	Ripiano universale orizzontale	Without upright	Bars side	Exits side	500	700	900	Plate (Segregation form 1)	Cell side closing	Universal horizontal shelf	
150	PPMB1540	2xPPRS0150	PSHS1904	PRVS1582			PLVS1552	PLVS1572	PLVS1592	PPMB1560	2xPPRS0150	PSHS1906	PRVS1560	PRVS1561	PRVS1562	PLVS1552	PLVS1572	PLVS1592	PPMB1580	2xPPRS0150	PSHS1908	
200	PPMB2040	PPVS2200	PSHS1904	PRVS2040			PLVS2052	PLVS2072	PLVS2092	PPMB2060	PPVS2200	PSHS1906	PRVS2060	PRVS2061	PRVS2062	PLVS2052	PLVS2072	PLVS2092	PPMB2080	PPVS2200	PSHS1908	
250	PPMB2540	PPVS2250	PSHS1904				PLVS2552	PLVS2572	PLVS2592	PPMB2560	PPVS2250	PSHS1906	PRVS2560	PRVS2561	PRVS2562	PLVS2552	PLVS2572	PLVS2592	PPMB2580	PPVS2250	PSHS1908	
300	PPMB3040	PPVS2300	PSHS1904				PLVS3052	PLVS3072	PLVS3092	PPMB3060	PPVS2300	PSHS1906	PRVS3060	PRVS3061	PRVS3062	PLVS3052	PLVS3072	PLVS3092	PPMB3080	PPVS2300	PSHS1908	
350																						
400	PPMB4040	PPVS2400	PSHS1904				PLVS4052	PLVS4072	PLVS4092	PPMB4060	PPVS2400	PSHS1906				PLVS4052	PLVS4072	PLVS4092	PPMB4080	PPVS2400	PSHS1908	
500	PPBM5004	PPVS2500	PSHS1904				PLVS5052	PLVS5072	PLVS5092	PPBM5006	PPVS2500	PSHS1906				PLVS5052	PLVS5072	PLVS5092	PPBM5008	PPVS2500	PSHS1908	
600	PPMB6040	PPVS2600	PSHS1904				PLVS6052	PLVS6072	PLVS6092	PPMB6060	PPVS2600	PSHS1906				PLVS6052	PLVS6072	PLVS6092	PPMB6080	PPVS2600	PSHS1908	

* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.

	W=1000mm												W=1250mm											
	Segregation form												Segregation form											
	F 3b						F 2a - 3a*		F 3b					F 2a - 3a*		F 3b								
	Vertical rear segregation			Vertical side segregation					Vertical rear segregation			Vertical side segregation				Vertical rear segregation			Vertical side segregation				
		With upright								With upright								With upright						
				D (mm)							D (mm)								D (mm)					
	Without upright	Bars side	Exits side	500	700	900	Plate (Segregation form 1)	Cell side closing	Ripiano universale orizzontale	Without upright	Bars side	Exits side	500	700	900	Plate (Segregation form 1)	Cell side closing	Ripiano universale orizzontale	Without upright	Bars side	Exits side	500	700	900
	PRVS1580	PRVS1581	PRVS1582	PLVS1552	PLVS1572	PLVS1592																		
	PRVS2080	PRVS2081	PRVS2082	PLVS2052	PLVS2072	PLVS2092	PPMB2010	PPVS2200	PSHS1901	PRVS2010			PLVS2052	PLVS2072	PLVS2092	PPMB2012	PPVS2200		PRVS2125			PLVS2052	PLVS2072	PLVS2092
	PRVS2580	PRVS2581	PRVS2582	PLVS2552	PLVS2572	PLVS2592										PPMB2512	PPVS2250		PRVS2512			PLVS2552	PLVS2572	PLVS2592
	PRVS3080	PRVS3081	PRVS3082	PLVS3052	PLVS3072	PLVS3092	PPMB3010	PPVS2300	PSHS1901	PRVS3010			PLVS3052	PLVS3072	PLVS3092	PPMB3012	PPVS2300		PRVS3125			PLVS3052	PLVS3072	PLVS3092
																PPMB3512	PPVS2350		PRVS3501			PLVS3552	PLVS3572	PLVS3592
				PLVS4052	PLVS4072	PLVS4092	PPMB4010	PPVS2400	PSHS1901				PLVS4052	PLVS4072	PLVS4092									
				PLVS5052	PLVS5072	PLVS5092	PPBM5001	PPVS2500	PSHS1901				PLVS5052	PLVS5072	PLVS5092									
				PLVS6052	PLVS6072	PLVS6092	PPMB6010	PPVS2600	PSHS1901				PLVS6052	PLVS6072	PLVS6092									

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Blind cell for segregation
HORIZONTAL SEGREGATION

	W=400mm										W=600mm									
	Segregation form										Segregation form									
	F 3a*	F 3b									F 3a*	F 3b								
Cell height (mm)	Cell (Segregation form 2a)	Universal horizontal shelf	Side shelf	Terminals separator D (mm) 500	700	900	Rear segregation bars side	Side rear segregation D (mm) 500	700	900	Cell (Segregation form 2a)	Universal horizontal shelf	Side shelf	Terminals separator D (mm) 500	700	900	Rear segregation bars side	Side rear segregation D (mm) 500	700	900
50	PCBS5040	PSHS1904	PPBS0050								PCBS5060	PSHS1906	PPBS0050							
100	PCBS1040	PSHS1904	PPBS0100								PCBS1060	PSHS1906	PPBS0100							
150	PCBS1540	PSHS1904	PPBS0150								PCBS1560	PSHS1906	PPBS0150							
200	PCBS2040	PSHS1904	PPBS0200	PSVS2050	PSVS2070	PSVS2090	PRVS2041	PLVS2052	PLVS2072	PLVS2092	PCBS2060	PSHS1906	PPBS0200	PSVS2050	PSVS2070	PSVS2090	PRVS2061	PLVS2052	PLVS2072	PLVS2092
250	PCBS2540	PSHS1904	PPBS0250	PSVS2550	PSVS2570	PSVS2590	PRVS2541	PLVS2552	PLVS2572	PLVS2592	PCBS2560	PSHS1906	PPBS0250	PSVS2550	PSVS2570	PSVS2590	PRVS2561	PLVS2552	PLVS2572	PLVS2592
300	PCBS3040	PSHS1904	PPBS0300	PSVS3050	PSVS3070	PSVS3090	PRVS3041	PLVS3052	PLVS3072	PLVS3092	PCBS3060	PSHS1906	PPBS0300	PSVS3050	PSVS3070	PSVS3090	PRVS3061	PLVS3052	PLVS3072	PLVS3092

* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.

	W=800mm										W=1000mm									
		Segregation form										Segregation form								
		F 3a*	F 3b									F 3a*	F 3b							
	Cell (Segregation form 2a)	Universal horizontal shelf	Side shelf	Terminals separator D (mm)			Rear segregation bars side	Side rear segregation D (mm)			Cella (Segregation form 2a)	Universal horizontal shelf	Side shelf	Terminals separator D (mm)			Rear segregation bars side	Side rear segregation D (mm)		
				500	700	900		500	700	900				500	700	900		500	700	900
	PCBS5080	PSHS1908	PPBS0050								PCBS5010	PSHS1901	PPBS0050							
	PCBS1080	PSHS1908	PPBS0100								PCBS1010	PSHS1901	PPBS0100							
	PCBS1580	PSHS1908	PPBS0150								PCBS1510	PSHS1901	PPBS0150							
	PCBS2080	PSHS1908	PPBS0200	PSVS2050	PSVS2070	PSVS2090	PRVS2081	PLVS2052	PLVS2072	PLVS2092	PCBS2010	PSHS1901	PPBS0200	PSVS2050	PSVS2070	PSVS2090		PLVS2052	PLVS2072	PLVS2092
	PCBS2580	PSHS1908	PPBS0250	PSVS2550	PSVS2570	PSVS2590	PRVS2581	PLVS2552	PLVS2572	PLVS2592	PCBS2510	PSHS1901	PPBS0250	PSVS2550	PSVS2570	PSVS2590		PLVS2552	PLVS2572	PLVS2592
	PCBS3080	PSHS1908	PPBS0300	PSVS3050	PSVS3070	PSVS3090	PRVS3081	PLVS3052	PLVS3072	PLVS3092	PCBS3010	PSHS1901	PPBS0300	PSVS3050	PSVS3070	PSVS3090		PLVS3052	PLVS3072	PLVS3092

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

Blind cell for segregation
VERTICAL SEGREGATION

Cell height (mm)	W=400mm										W=600mm									
	Cell (Segregation form 2a)	Segregation form									Cell (Segregation form 2a)	Segregation form								
		F 3a*	F 3b									F 3a*	F 3b							
		Universal horizontal shelf	Side shelf	Vertical rear segregation			Vertical side segregation					Universal horizontal shelf	Side shelf	Vertical rear segregation			Vertical side segregation			
				Without upright	With upright									Without upright	With upright					
							D (mm)										D (mm)			
					Bars side	Exits side	500	700	900						Bars side	Exits side	500	700	900	
50	PCBS5040	PSHS1904	PPBS0050	PRVS0541		PRVS0582	PLVS0552	PLVS0572	PLVS0592		PCBS5060	PSHS1906	PPBS0050	PRVS0561	PRVS0562	PRVS0560	PLVS0552	PLVS0572	PLVS0592	
100	PCBS1040	PSHS1904	PPBS0100	PRVS0141		PRVS0182	PLVS1052	PLVS1072	PLVS1092		PCBS1060	PSHS1906	PPBS0100	PRVS0161	PRVS0162	PRVS1006	PLVS1052	PLVS1072	PLVS1092	
150	PCBS1540	PSHS1904	PPBS0150	PRVS1541		PRVS1582	PLVS1552	PLVS1572	PLVS1592		PCBS1560	PSHS1906	PPBS0150	PRVS1561	PRVS1562	PRVS1560	PLVS1552	PLVS1572	PLVS1592	
200	PCBS2040	PSHS1904	PPBS0200	PRVS2041		PRVS2040	PLVS2052	PLVS2072	PLVS2092		PCBS2060	PSHS1906	PPBS0200	PRVS2061	PRVS2062	PRVS2060	PLVS2052	PLVS2072	PLVS2092	
250	PCBS2540	PSHS1904	PPBS0250	PRVS2541			PLVS2552	PLVS2572	PLVS2592		PCBS2560	PSHS1906	PPBS0250	PRVS2561	PRVS2562	PRVS2560	PLVS2552	PLVS2572	PLVS2592	
300	PCBS3040	PSHS1904	PPBS0300	PRVS3041			PLVS3052	PLVS3072	PLVS3092		PCBS3060	PSHS1906	PPBS0300	PRVS3061	PRVS3062	PRVS3060	PLVS3052	PLVS3072	PLVS3092	

* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b.

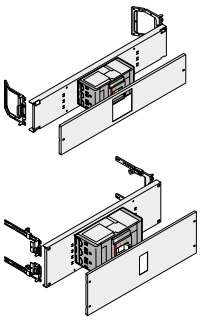
W=800mm										W=1000mm									
	Segregation form										Segregation form								
	F 3a*	F 3b									F 3a*	F 3b							
			Vertical rear segregation				Vertical side segregation						Vertical rear segregation				Vertical side segregation		
				With upright										With upright					
						D (mm)									D (mm)				
Cell (Segregation form 2a)	Universal horizontal shelf	Side shelf	Without upright	Bars side	Exits side	500	700	900	Cell (Segregation form 2a)	Universal horizontal shelf	Side shelf	Without upright	Bars side	Exits side	500	700	900	
PCBS5080	PSHS1908	PPBS0050	PRVS0581	PRVS0582	PRVS0580	PLVS0552	PLVS0572	PLVS0592	PCBS5010	PSHS1901	PPBS0050				PLVS0552	PLVS0572	
PCBS1080	PSHS1908	PPBS0100	PRVS0181	PRVS0182	PRVS1008	PLVS1052	PLVS1072	PLVS1092	PCBS1010	PSHS1901	PPBS0100				PLVS1052	PLVS1072	
PCBS1580	PSHS1908	PPBS0150	PRVS1581	PRVS1582	PRVS1580	PLVS1552	PLVS1572	PLVS1592	PCBS1510	PSHS1901	PPBS0150				PLVS1552	PLVS1572	
PCBS2080	PSHS1908	PPBS0200	PRVS2081	PRVS2082	PRVS2080	PLVS2052	PLVS2072	PLVS2092	PCBS2010	PSHS1901	PPBS0200			PRVS2010	PLVS2052	PLVS2072	
PCBS2580	PSHS1908	PPBS0250	PRVS2581	PRVS2582	PRVS2580	PLVS2552	PLVS2572	PLVS2592	PCBS2510	PSHS1901	PPBS0250			PRVS2510	PLVS2552	PLVS2572	
PCBS3080	PSHS1908	PPBS0300	PRVS3081	PRVS3082	PRVS3080	PLVS3052	PLVS3072	PLVS3092	PCBS3010	PSHS1901	PPBS0300			PRVS3010	PLVS3052	PLVS3072	

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

Internal kits

Quick selection guides

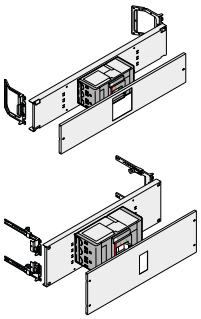


Tmax XT horizontal installation

To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/XX.

NON-ACCESSORIZED CIRCUIT-BREAKERS

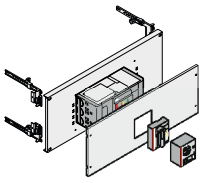
Front or rear CB connections	No. poles	Dimensions (mm) H	W	No. CB per compart.	FIXED	PLUG-IN	WITHDRAWABLE
XT1	3P 4P	150	400	1	PHBX1401		
	3P 4P	150	600	1	PHCX1401		
	3P 4P	150	800	1	PHDX1301		
	3P 4P	200	400	1	PHBX1101	PHBX1407	
	3P 4P	200	600	1	PHCX1101	PHCX1407	
	3P 4P	200	800	1	PHDX1401	PHDX1407	
XT2	3P	150	400	1	PHBX2301		
	3P	150	600	1	PHCX2301		
	3P 4P	200	400	1	PHBX2401	PHBX2407	PHBX2310 (1)
	3P 4P	200	600	1	PHCX2401	PHCX2407	PHCX2310 (1)
	3P 4P	200	800	1	PHDX2401	PHDX2407	
	3P 4P	250	400	1			PHBX2410
	3P 4P	250	600	1			PHCX2410
	3P 4P	250	800	1			PHDX2410
XT3	3P	150	400	1	PHBX3301(2)		
	3P	150	600	1	PHCX3301		
	3P 4P	200	400	1	PHBX3401(2)	PHBX3407	
	3P 4P	200	600	1	PHCX3401	PHCX3407	
	3P 4P	200	800	1	PHDX3401	PHDX3407	
XT4	3P	150	400	1	PHBX4301(2)		
	3P	150	600	1	PHCX4301		
	3P 4P	200	400	1	PHBX4401(2)	PHBX4407	
	3P 4P	200	600	1	PHCX4401	PHCX4407	
	3P 4P	200	800	1	PHDX4401	PHDX4407	
	3P 4P	250	400	1			PHBX4410
	3P 4P	250	600	1			PHCX4410
	3P 4P	250	800	1			PHDX4410
XT5 400A	3P	200	400	1		PHBX5307	
	3P	200	600	1		PDCX5308	
	3P	200	800	1		PHDX5307	
	3P	300	600	1			PHCX5310*
	3P 4P	250	400	1		PHBX5427	
	3P 4P	250	600	1		PHCX5428	
	3P 4P	250	800	1		PHDX5429	
XT5 400/630A	3P	200	400	1	PHBX5329 (2)		
	3P	200	600	1	PHCX5320		
	3P	200	800	1	PHDX5320		
	3P 4P	250	400	1	PHBX5420 (2)		
	3P 4P	250	600	1	PHCX5420		
	3P 4P	250	800	1	PHDX5420		
XT5 630A	3P	200	600	1		PHCX5307*	
	3P 4P	250	600	1		PHCX5407	
	3P 4P	250	800	1		PHDX5407	
XT6	3P	300	600	1	PHCX6301 (3)		
	3P	300	800	1	PHDX6301		
	3P 4P	350	600	1	PHCX6401 (3)		PHCX6314 (1) ■
	3P 4P	350	800	1	PHDX6401 (3)		PHDX6314 (1) ■
	3P 4P	500	600	1			PHCX6410 ■
	3P 4P	500	800	1			PHCX6414 ■



NON-ACCESSORIZED CIRCUIT-BREAKERS

Front or rear CB connections	No. poles	Dimensions (mm) H	W	No. CB per compart.	FIXED	PLUG-IN	WITHDRAWABLE
XT7	3P	300	600	1	PHGT7329		
	3P	300	800	1	PHIT7329		
	3P 4P	350	600	1	PHGT7420		
	3P 4P	350	800	1	PHIT7420		
	3P 4P	500	600	1	PHGT7418		PHGT7430**
	3P 4P	500	800	1	PHIT7418		PHIT7430**

* Front terminals, only Form 1
** Only rear terminals
(1) Only 3 poles.
(2) Not compatible with high terminal covers.
(3) XT6 1000A front terminals in width 800mm.
■ Front terminals, only Form 1



ACCESSORIZED CIRCUIT-BREAKERS

Front or rear CB connections	No. poles	Dimensions (mm) H	W	No. CB per compart.	Residual current device	Direct Rotary Handle	Motor operator	Interlocked	Interlocked motor-operated
FIXED									
XT1	3P	200	400	1	PHBX1323				
	3P	200	600	1	PHCX1323				
	3P 4P	150	400	1		PHBX1405			
	3P 4P	150	600	1		PHCX1405			
	3P 4P	200	400	1	PHBX1423(2)	PHBX1105	PHBX1404		
	3P 4P	200	600	1	PHCX1423(2)	PHCX1105	PHCX1404		
	3P 4P	500	400	2				PHBX1422	PHBX1424 (5)
	3P 4P	500	600	2				PHCX1422	PHCX1424 (5)
	4P	200	800	1	PHDX1423				
	3P 4P	200	800	1		PHDX1105	PHDX1404		
	3P 4P	500	800	2				PHDX1402	PHDX1403 (5)
XT2	3P 4P	200	400	1	PHBX2423(2)	PHBX2405	PHBX2404		
	3P 4P	200	600	1	PHCX2423(2)	PHCX2405	PHCX2404		
XT2	3P 4P	200	800	1	PHDX2423(2)	PHDX2405	PHDX2404		
	3P 4P	500	400	2				PHBX2402	PHBX2424 (5)
	3P 4P	500	600	2				PHCX2402	PHCX2424 (5)
	3P 4P	250	800	1					
	3P 4P	500	800	2				PHDX2402	PHDX2403 (5)
XT3	3P	150	400	1		PHBX3305			
	3P	150	600	1		PHCX3305			
	3P 4P	200	400	1		PHBX3405	PHBX3404		
	3P 4P	200	600	1		PHCX3405	PHCX3404		
	3P 4P	500	400	2				PHBX3422	PHBX3424 (5)
	3P 4P	500	600	2				PHCX3422	PHCX3424 (5)
	4P	250	400	1	PHBX3423(4)				
	4P	250	600	1	PHCX3423				
	3P 4P	200	800	1	PHDX3423(2)	PHDX3405	PHDX3404		
	3P 4P	500	800	2			PHDX3402		PHDX3403 (5)
XT4	3P 4P	200	400	1	PHBX4423(2) (4)	PHBX4405	PHBX4404		
	3P 4P	200	600	1	PHCX4423(2)	PHCX4405	PHCX4404		
	3P 4P	200	800	1	PHDX4423(2)	PHDX4405	PHDX4404		
	3P 4P	500	400	2				PHBX4402	PHBX4424 (5)
	3P 4P	500	600	2				PHCX4402	PHCX4424 (5)
	3P 4P	500	800	2				PHDX4402	PHDX4403 (5)

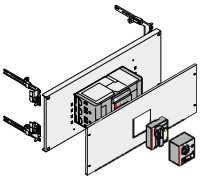
(1) Only 3 poles.
(2) Only 4 poles.
(3) Compatible residual current devices: RC Inst. XT1-XT3, RC Sel. XT1-XT3 and RC Sel.. XT2-XT4 Type A. For XT1-XT3 fixed with residual current device high terminal covers are not available.
(4) Not compatible with high terminal covers.
(5) Kit with recessed mounting plate. Only rear terminals.

For fixed and withdrawable 3P breakers Tmax XT, non accessorized and mounted on 3/4P kit, it is necessary to order the dedicated cover flanges: AD3305 flange for XT1 3P mounted on plate, AD3306 flange for XT2 3P mounted on plate, AD3307 flange for XT3 3P mounted on plate, AD3308 flange for XT4 3P mounted on plate. With interlocked or interlocked motor-operated kits, it is necessary to order the quantity of flanges equal to the quantity of breakers.

Internal kits

Quick selection guides

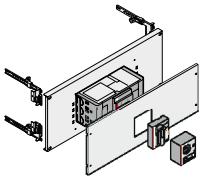
Tmax XT horizontal installation
To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/XX.



ACCESSORIZED CIRCUIT-BREAKERS

Front or rear CB connections	No. poles	Dimensions (mm) H	W	No. CB per compart.	Residual current device	Direct Rotary Handle	Motor operator	Interlocked	Interlocked motor-operated
XT5 400A	**4P**	**250**	**600**	**1**	**PHCX5423**				
	4P	250	800	1	PHDX5423				
XT5 400/630A	3P	200	400	1		PHBX5306 (3)	PHBX5304 (5)		
	3P	200	600	1		PHCX5306	PHCX5304 (5)		
	3P	200	800	1		PHDX5306	PHDX5304 (5)		
	3P 4P	250	400	1		PHBX5406 (3)	PHBX5404 (5)		
	3P 4P	250	600	1		PHCX5406	PHCX5404 (5)		
	3P 4P	250	800	1		PHDX5406	PHDX5404 (5)		
	3P 4P	600	600	2				PHCX5402	PHCX5403 (5)
XT6	3P	300	600	1		PHCX6305 (4)	PHCX6304 (4) (5)		
	3P	300	800	1		PHDX6305	PHDX6304 (5)		
	3P 4P	350	600	1		PHCX6405	PHCX6404 (5)		
	3P 4P	350	800	1		PHDX6405	PHDX6404 (5)		
	3P 4P	700	600	2				PHCX6402	PHCX6403 (5)
	3P 4P	700	800	2				PHDX6402	PHDX6403 (5)
XT7	3P	300	600	1		PHGT7329	PHGT7329	PHGT7329	PHGT7329
	3P	300	800	1		PHIT7329	PHIT7329	PHIT7329	PHIT7329
	3P 4P	350	600	1		PHGT7420	PHGT7420		
	3P 4P	350	800	1		PHIT7420	PHIT7420		
	3P 4P	500	600	1				PHGT7418	PHGT7418
	3P 4P	500	800	1				PHIT7418	PHIT7418
PLUG-IN									
XT1	3P 4P	200	400	1		PHBX1427	PHBX1409 (5)		
	3P 4P	200	600	1		PHCX1427	PHCX1409 (5)		
	3P 4P	500	400	2				PHBX1422	PHBX1424 (5)
	3P 4P	500	600	2				PHCX1422	PHCX1424 (5)
	3P 4P	200	800	1		PHDX1427	PHDX1409 (5)		
	3P 4P	500	800	2				PHDX1422	PHDX1424
XT2	3P 4P	200	400	1		PHBX2427	PHBX2409 (5)		
	3P 4P	200	600	1		PHCX2427	PHCX2409 (5)		
	3P 4P	200	800	1		PHDX2427	PHDX2409		
	3P 4P	250	400	1	PHBX2428(2)				
	3P 4P	500	400	2				PHBX2431(5)	PHBX2424 (5)
	3P 4P	500	600	2				PHCX2431(5)	PHCX2424 (5)
	3P 4P	250	800	1	PHDX2428(2)				
XT3	3P 4P	200	400	1		PHBX3427	PHBX3409		
	3P 4P	200	600	1		PHCX3427	PHCX3409		
	3P 4P	500	400	2				PHBX3422	PHBX3424 (5)
	3P 4P	500	600	2				PHCX3422	PHCX3424 (5)
	3P 4P	200	800	1		PHDX3427	PHDX3409		

ACCESSORIZED CIRCUIT-BREAKERS



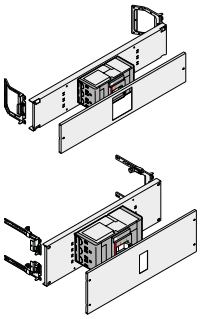
Front or rear CB connections	No. poles	Dimensions (mm) H	W	No. CB per compart.	Residual current device	Direct Rotary Handle	Motor operator	Interlocked	Interlocked motor-operated
	3P 4P	500	800	2				PHDX2432(5)	
XT4	3P 4P	200	400	1		PHBX4427	PHBX4409 (5)		
	3P 4P	200	600	1		PHCX4427	PHCX4409 (5)		
	3P 4P	200	800	1		PHDX4427	PHDX4409 (5)		
	3P 4P	250	400	1	PHBX4428(2)				
	3P 4P	500	400	2				PHBX4431 (5)	PHBX4424 (5)
	3P 4P	500	600	2				PHCX4431 (5)	PHCX4424 (5)
	3P 4P	250	800	1	PHDX4428(2)				
	3P 4P	500	800	2				PHDX4422 (5)	
XT5 400A	3P	200	400	1		PHBX5326	PHBX5309 (5)		
	3P	200	600	1		PHCX5326	PHCX5309 (5)		
	3P	200	800	1		PHDX5326	PHDX5309 (5)		
	3P 4P	250	400	1		PHBX5426	PHBX5409 (5)		
	3P 4P	250	600	1		PHCX5426	PHCX5409 (5)		
	3P 4P	250	800	1		PHDX5426	PHDX5409 (5)		
XT5 400/630A	3P 4P	250	600	1			PHCX5427 (1)		
	3P 4P	250	800	1			PHDX5428 (1)		
	3P 4P	600	600	2				PHCX5431 (5)	PHCX5432 (5)
	3P 4P	600	800	2				PHDX5431 (5)	PHDX5432 (5)
WITHDRAWABLE									
XT2	3P 4P	200	400	1		PHBX2300(1)	PHBX2312(1) (5)		
	3P 4P	200	600	1		PHCX2300(1)	PHCX2312(1) (5)		
	3P 4P	200	800	1			PHDX2409		
	3P 4P	250	400	1		PHBX2400	PHBX2412 (5)		
	3P 4P	250	600	1	PHCX2417(2)(3)	PHCX2400	PHCX2412 (5)		
	3P 4P	500	400	2				PHBX2425 (5)	PHBX2425 (5)
	3P 4P	500	600	2				PHCX2425 (5)	PHCX2425 (5)
	3P 4P	250	800	1	PHDX2417(2)(3)	PHDX2400	PHDX2412 (5)		
	3P 4P	500	800	2					PHDX2425 (5)
XT4	3P 4P	250	400	1		PHBX4400	PHBX4412 (5)		
	3P 4P	250	600	1	PHCX4417(2)(3)	PHCX4400	PHCX4412 (5)		
	3P 4P	500	400	2				PHBX4425 (5)	PHBX4425 (5)
	3P 4P	500	600	2				PHCX4425 (5)	PHCX4425 (5)
	3P 4P	250	800	1	PHDX4417(2)(3)	PHDX4400	PHDX4412 (5)		
	3P 4P	500	800	2					PHDX4425 (5)
XT5 400A	3P	300	400	1		PHBX5314	PHBX5312 (5)		
	3P	300	600	1		PHCX5314	PHCX5312 (5)		
	3P	300	800	1		PHDX5314	PHDX5312 (5)		
	3P 4P	350	400	1		PHBX5414	PHBX5412 (5)		
	3P 4P	350	600	1		PHCX5414	PHCX5412 (5)		
	3P 4P	350	800	1		PHDX5414	PHDX5412 (5)		
XT5 400/630A	3P 4P	600	600	2				PHCX5425 (5)	PHCX5411 (5)
	3P 4P	600	800	2				PHDX5425 (5)	PHDX5411 (5)
XT6	3P 4P	350	600	1		PHCX6315(5)■	PHCX6312(5)■		
	3P 4P	350	800	1		PHDX6315(5)■	PHDX6312(5)■		
	3P 4P	500	600	1		PHCX6400■	PHCX6412(5)■		
	3P 4P	500	800	1		PHDX6415■	PHDX6412 (5)■		
	3P 4P	700	600	1				PHCX6425(5)■	PHCX6411(5)■
XT7	3P 4P	500	600	1	PHGT7430*	PHGT7430*	PHCE1240*	PHGT7430*	PHDE1240*
	3P 4P	500	800	1	PHIT7430*	PHIT7430*	PHDE1240*	PHIT7430*	PHDE1240*

■ Front terminals, only Form 1
(1) Only 3 poles.
(2) Only 4 poles.
(3) Compatible residual current devices: RC Inst. XT1-XT3, RC Sel. XT1-XT3 and RC Sel.. XT2-XT4 Type A. For XT1-XT3 fixed with residual current device high terminal covers are not available.
(4) Not compatible with high terminal covers.
(5) Kit with recessed mounting plate. Only rear terminals.

For fixed and withdrawable 3P breakers Tmax XT, non accessorized and mounted on 3/4P kit, it is necessary to order the dedicated cover flanges: AD3305 flange for XT1 3P mounted on plate, AD3306 flange for XT2 3P mounted on plate, AD3307 flange for XT3 3P mounted on plate, AD3308 flange for XT4 3P mounted on plate. With interlocked or interlocked motor-operated kits, it is necessary to order the quantity of flanges equal to the quantity of breakers.

Internal kits

Quick selection guides



Tmax T horizontal installation

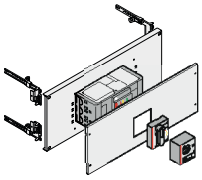
To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/21.

NON-ACCESSORIZED CIRCUIT-BREAKERS

Front or rear CB connections		No. poles	Dimensions (mm) H	W	No. CB per compart.	FIXED	PLUG-IN	WITHDRAWABLE
T4		3P	150	400	1	PHBT4301[2]		
		3P	150	600	1	PHCT4301		
		3P 4P	200	400	1	PHBT4406[2]		
		3P 4P	200	600	1	PHCT4406		
T5	400A	3P	200	400	1		PHBT5326	
		3P	200	600	1		PHCT5326	
		3P	200	800	1		PHDT5326	
		3P	300	400	1			PHBT5314
		3P	300	600	1			PHCT5314
		3P	300	800	1			PHDT5314
	400/630A	3P	200	400	1	PHBT5306[2]		
		3P	200	600	1	PHCT5306		
		3P	200	800	1	PHDT5306		
	400A	3P 4P	250	400	1		PHBT5426	
		3P 4P	250	600	1		PHCT5426	
		3P 4P	250	800	1		PHDT5426	
		3P 4P	350	400	1			PHBT5414
		3P 4P	350	600	1			PHCT5414
		3P 4P	350	800	1			PHDT5414
	400/630A	3P 4P	250	400	1	PHBT5406[2]		
		3P 4P	250	600	1	PHCT5406		
		3P 4P	250	800	1	PHDT5406		
	630A	3P	200	600	1		PHCT5307 ■	
		3P 4P	250	600	1		PHCT5407	
		3P 4P	250	800	1		PHDT5407	
		3P	300	600	1			PHCT5310 ■
T6		3P	300	600	1	PHCT6301[3]		
		3P	300	800	1	PHDT6301		
		3P 4P	350	600	1	PHCT6401[3]		PHCT6314 [1] ■
		3P 4P	350	800	1	PHDT6401[3]		PHDT6314 [1] ■
		3P 4P	500	600	1			PHCT6410 ■
		3P 4P	500	800	1			PHDT6414 ■
T7		3P	300	600	1	PHCT7329		
		3P	300	800	1	PHDT7329		
		3P 4P	350	600	1	PHCT7420		
		3P 4P	350	800	1	PHDT7420		
		3P 4P	500	600	1			PHCT7430 *
		3P 4P	500	800	1			PHDT7430 *

[1] Only 3 poles
[2] Not compatible with high terminal covers.
[3] T6 1000A front terminals in width 800mm.

■ Front terminals, only Form 1
* Only rear terminals



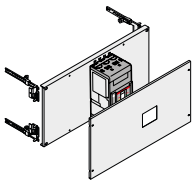
ACCESSORIZED CIRCUIT-BREAKERS

Front or rear CB connections		No. poles	Dimensions (mm) H	W	No. CB per compart.	Residual current device	Direct Rotary Handle	Motor operator	Interlocked	Interlocked motor-operated
FIXED										
T4		3P 4P	200	400	1		PHBT4406(3)	PHBT4404(5)		
		3P 4P	200	600	1	PHCT4423(2)	PHCT4406	PHCT4404(5)		
		3P 4P	600	400	2				PHBT4402	
		3P 4P	600	600	2				PHCT4402	PHCT4403 (5)
		3P 4P	600	800	2				PHDT4402	PHDT4403 (5)
T5	400A/630A	3P	200	400	1		PHBT5306(3)	PHBT5304 (5)		
		3P	200	600	1		PHCT5306	PHCT5304 (5)		
		3P	200	800	1		PHDT5306	PHDT5304 (5)		
		3P 4P	250	400	1		PHBT5406(3)	PHBT5404 (5)		
		3P 4P	250	600	1		PHCT5406	PHCT5404 (5)		
		3P 4P	250	800	1		PHDT5406	PHDT5404 (5)		
		3P 4P	600	600	2				PHCT5402	PHCT5403 (5)
		3P 4P	600	800	2					
	400A	4P	250	600	1	PHCT5423				
		4P	250	800	1	PHDT5423				
T6		3P	300	600	1		PHCT6305	PHCT6304 (5)		
		3P	300	800	1		PHDT6305	PHDT6304 (5)		
		3P 4P	350	600	1		PHCT6405	PHCT6404 (5)		
		3P 4P	350	800	1		PHDT6405	PHDT6404 (5)		
		3P 4P	700	600	2				PHCT6402	PHCT6403 (5)
		3P 4P	700	800	2				PHDT6402	PHDT6403 (5)
T7		3P	300	600	1		PHCT7329	PHCT7329	PHCT7329	PHCT7329
		3P	300	800	1		PHDT7329	PHDT7329	PHDT7329	PHDT7329
		3P 4P	350	600	1		PHCT7420	PHCT7420		
		3P 4P	350	800	1		PHDT7420	PHDT7420		
		3P 4P	400	600	1				PHCT7418	PHCT7418
		3P 4P	400	800	1				PHDT7418	PHDT7418
PLUG-IN										
T5	400A	3P	200	400	1		PHBT5326	PHBT5309 (5)		
		3P	200	600	1		PHCT5326	PHCT5309 (5)		
		3P	200	800	1		PHDT5326	PHDT5309 (5)		
		3P 4P	250	400	1		PHBT5426	PHBT5409 (5)		
		3P 4P	250	600	1		PHCT5426	PHCT5409 (5)		
		3P 4P	250	800	1		PHDT5426	PHDT5409 (5)		
	400A/630A	3P 4P	250	600	1			PHCT5427 (5)		
		3P 4P	250	800	1			PHDT5428 (5)		
		3P 4P	600	600	2				PHCT5431(5)	PHCT5432(5)
		3P 4P	600	800	2				PHDT5431(5)	PHDT5432(5)
WITHDRAWABLE										
T5	400A	3P	300	400	1		PHBT5314	PHBT5312 (5)		
		3P	300	600	1		PHCT5314	PHCT5312 (5)		
		3P	300	800	1		PHDT5314	PHDT5312 (5)		
		3P 4P	350	400	1		PHBT5414	PHBT5412 (5)		
		3P 4P	350	600	1		PHCT5414	PHCT5412 (5)		
		3P 4P	350	800	1		PHDT5414	PHDT5412 (5)		
		3P 4P	250	400	1					
	400A/630A	3P 4P	250	600	1				PHCT5425 (5)	PHDT5411(5)
		3P 4P	250	800	1				PHCT5425 (5)	PHDT5411(5)
T6		3P 4P	350	600	1		PHCT6314(1)■	PHCT6312(1)■		
		3P 4P	350	800	1		PHDT6314(1)■	PHDT6312(1)■		
		3P 4P	500	600	1		PHCT6410■	PHCT6412(1)■		
		3P 4P	500	800	1		PHDT6414■	PHDT6412(1)■		
		3P 4P	700	600	2				PHCT6425■(5)	PHCT6411(5)
T7		3P 4P	500	600	1		PHCT7430*	PHCT7430*	PHCT7430*	PHCT7430*
		3P 4P	500	800	1		PHDT7430*	PHDT7430*	PHDT7430*	PHDT7430*

(1) Only 3 poles
(2) Only 4 poles
(3) Not compatible with high terminal covers.
(4) T6 1000A front terminals in width 800mm.
(5) Kit with recessed mounting plate. Only rear terminals.
■ Front terminals, only Form 1
* Only rear terminals

Internal kits

Quick selection guides

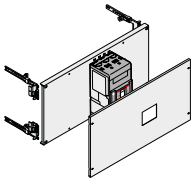


Tmax XT vertical installation

To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/21.

NON-ACCESSORIZED CIRCUIT-BREAKERS

Front or rear CB connections	No. poles	Dimensions (mm) H	W	No. CB per compart.	FIXED	PLUG-IN	WITHDRAWABLE
XT1	3P 4P	300	400	1	PVBX1401	PVBX1407	
	3P 4P	300	600	1	PVCX1401	PVCX1407	
	3P	300	600	3	PVCX1301	PVCX1707	
	3P 4P	300	800	4		PVDX1807	
XT2	3P 4P	300	400	1	PVBX2401	PVBX2407	
	3P 4P	300	600	1	PVCX2401	PVCX2407	
	3P 4P	300	600	3	PVCX2701	PVCX2707	
	3P 4P	300	800	4	PVDX2801	PVDX2807	
XT3	3P 4P	300	400	1	PVBX3401	PVBX3407	
	3P	300	600	3		PVCX3707	
	3P 4P	300	600	1	PVCX3401	PVCX3407	
	3P	300	600	3	PVCX3301	PVCX3607	
	3P	300	600	3	PVCX3301		
	3P	300	800	4		PVDX3807	
	3P 4P	300	800	3		PVDX3707	
XT4	3P 4P	300	400	1	PVBX4401		
	3P 4P	300	600	1	PVCX4401		
	3P 4P	300	600	2	PVCX4601		
	3P	300	600	3	PVCX4701		
	3P 4P	300	800	3	PVDX4701		
	3P	300	800	4	PVDX4801		
	3P 4P	350	400	1		PVBX4407	
	3P	350	600	3		PVCX4707	
	3P 4P	350	600	1		PVCX4407	
	3P 4P	350	600	2		PVCX4607	
	3P	350	800	4		PVDX4807	
	3P 4P	350	800	3		PVDX4707	
XT5 400A	3P 4P	350	400	1		PVBX5407	
	3P 4P	350	600	1		PVCX5427	
	3P 4P	350	800	1		PVDX5429	
XT5 400/630A	3P 4P	350	800	2	PVDX5601		PVDX5610
	3P	350	1000	4			PVFX5810
	3P 4P	350	1000	3			PVFX5710
	3P 4P	350	400	1	PVBX5420		
	3P 4P	350	600	1	PVCX5420		
	3P 4P	350	800	1	PVDX5420		
	3P 4P	350	600	2	PVCX5712 (1)		
	3P 4P	350	800	3	PVDX5813 (1)		
XT5 630A(1)	3P 4P	400	600	1		PVCX5429	
	3P 4P	400	800	1		PVDX5427	
	3P	450	600	2			PVCX5601
	3P	450	800	3			PVDX5701
	3P	450	400	1			PVBX5319
	3P	450	600	1		PVCX5307 (1)	

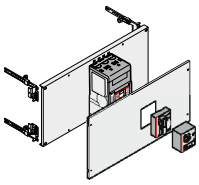


NON-ACCESSORIZED CIRCUIT-BREAKERS

Front or rear CB connections	No. poles	Dimensions (mm) H	W	No. CB per compart.	FIXED	PLUG-IN	WITHDRAWABLE
XT6	3P 4P	400	600	1	PVCX6401		
	3P 4P	400	800	1	PVDX6401		
	3P 4P	450	800	1			PVCX6414 (1)
	3P 4P	450	800	1			PVDX6414 (1)
	3P 4P	450	1000	2			PVFX6610 (1)
XT7	3P 4P	450	400	1	PVBE1241*		
	3P 4P	450	600	1	PVGT7419		
	3P 4P	450	800	1	PVIT7419		
	3P 4P	500	600	1			PVGT7413 (2)
	3P 4P	500	800	1			PVIT7413 (2)
	3P 4P	500	1000	2			PVLT7633 (2)

*only IP3x without door
(1) only front terminals not segregated

XT1-XT3 and RC Sel..XT2-XT4 Type A. For XT1-XT3 fixed with residual current device high terminal covers are not available.



ACCESSORIZED CIRCUIT-BREAKERS

Front or rear CB connections	No. poles	Dimensions (mm) H	W	No. CB per compart.	Residual current device	Direct Rotary Handle	Motor operator	Interlocked	Interlocked motor-operated
FIXED									
XT1	3P 4P	300	400	1	PVBX1423 (1)	PVBX1405	PVBX1404		
	3P 4P	300	600	1	PVCX1423 (1)	PVCX1405	PVCX1404		
XT2	3P 4P	300	400	1		PVBX2405	PVBX2404		
	3P 4P	300	600	1		PVCX2405	PVCX2404		
	4P	350	400	1	PVBX2423				
	4P	350	600	1	PVCX2423				
XT3	3P 4P	300	400	1		PVBX3405	PVBX3404		
	3P 4P	300	600	1		PVCX3405	PVCX3404		
	4P	400	400	1	PVBX3423				
	4P	400	600	1	PVCX3423				
XT4	3P 4P	300	400	1		PVBX4405	PVBX4404		
	3P 4P	300	600	1		PVCX4405	PVCX4404		
	4P	400	400	1	PVBX4423				
	4P	400	600	1	PVCX4423				
XT5 400A	4P	450	400	1	PVBX5423				
	4P	450	600	1	PVCX5423				
	4P	450	800	1	PVDT5423				
XT5 400/630A	3P 4P	350	400	1		PVBX5406	PVBX5404 (3)		
	3P 4P	350	600	1		PVCX5406	PVCX5404 (3)		
	3P 4P	350	800	1		PVDX5406	PVDX5404 (3)		
XT6	3P 4P	400	600	1		PVCX6405	PVCX6404 (3)		
	3P 4P	400	800	1		PVDX6405	PVDX6404 (3)		
XT7	3P 4P	450	400	1			PVBE1241		
	3P 4P	450	600	1			PVCE1241	PVGT7419	PVCE1241
	3P 4P	450	800	1			PVDE1241	PVIT7419	PVDE1241
PLUG-IN									
XT1	3P 4P	300	400	1		PVBX1427	PVBX1409 (3)		
	3P 4P	300	600	1		PVCX1427	PVCX1409 (3)		
XT2	3P 4P	300	400	1		PVBX2427	PVBX2409 (3)		
	3P 4P	300	600	1		PVCX2427	PVCX2409 (3)		
XT3	3P 4P	300	400	1		PVBX3427	PVBX3409 (3)		
	3P 4P	300	600	1		PVCX3427	PVCX3409 (3)		

(1) Only 4 poles.
(2) Compatible residual current devices: RC Inst. XT1-XT3, RC Sel.
(3) Kit with recessed mounting plate. Only rear terminals.
XT1-XT3 and RC Sel..XT2-XT4 Type A. For XT1-XT3 fixed with residual current device high terminal covers are not available.

For fixed and withdrawable 3P breakers Tmax XT, non accessorized and mounted on 3/4P kit, it is necessary to order the dedicated cover flanges: AD3305 flange for XT1 3P mounted on plate, AD3306 flange for XT2 3P mounted on plate, AD3307 flange for XT3 3P mounted on plate, AD3308 flange for XT4 3P mounted on plate. With interlocked or interlocked motor-operated kits, it is necessary to order the quantity of flanges equal to the quantity of breakers

Internal kits

Quick selection guides

Tmax XT vertical installation

To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/21.

ACCESSORIZED CIRCUIT-BREAKERS

Front or rear CB connections	No. poles	Dimensions (mm) H	W	No. CB per compart.	Residual current device	Direct Rotary Handle	Motor operator	Interlocked	Interlocked motor-operated
XT4	3P 4P	350	400	1		PVBX4427	PVBX4409 (3)		
	3P 4P	350	600	1		PVCX4427	PVCX4409 (3)		
XT5 400A	3P 4P	350	400	1		PVBX5426			
	3P 4P	350	600	1		PVCX5426			
	3P 4P	350	800	1		PVDX5426			
	4P	450	400	1	PVBX5428				
	4P	450	600	1	PVCX5428				
	4P	450	800	1	PVDX5428				
XT5 630A	3P	450	600	1		PVCX5326 (1)			
	3P 4P	400	400	1			PVBX5409 (2)		
	3P 4P	400	600	1		PVCX5407	PVCX5409 (2)		
	3P 4P	400	800	1		PVDX5407	PVDX5409 (2)		
WITHDRAWABLE									
XT2	3P 4P	300	400	1		PVBX2400	PVBX2412 (3)		
	3P 4P	300	600	1		PVCX2400	PVCX2412 (3)		
	4P	350	400	1	PVBX2417				
	4P	350	600	1	PVCX2417				
XT4	3P 4P	350	400	1		PVBX4400	PVBX4412 (3)		
	3P 4P	350	600	1		PVCX4400	PVCX4412 (3)		
	4P	400	400	1	PVBX4417				
	4P	400	600	1	PVCX4417				
XT5 400A	3P 4P	350	800	2			PVDX5612 (3)		
	3P 4P	350	400	1		PVBX5414	PVBX5412 (3)		
	3P 4P	350	600	1		PVCX5414	PVCX5412 (3)		
	3P 4P	350	800	1		PVDX5414	PVDX5412 (3)		
XT5 400/630A	3P	350	1000	4			PVFX5812		
	3P 4P	350	1000	3			PVFX5712		
XT5 630A	3P 4P	400	600	1			PVCX5430 (2)(3)		
	3P 4P	400	800	1			PVDX5430 (2)(3)		
XT6	3P 4P	450	600	1		PVCX6415■	PVCX6412 (3)■		
	3P 4P	450	800	1		PVDX6415■	PVDX6412 (3)■		
	3P 4P	450	1000	2		PVFX6615■	PVFX6612■		
XT7	3P 4P	500	600	1			PVCE1240*	PVGT7413*	PVCE1240*
	3P 4P	500	800	1			PVDE1240*	PVIT7413*	PVDE1240*
	3P 4P	500	1000	2			PVFE1263*		

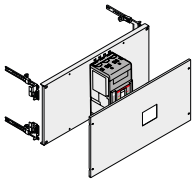
■ Front terminals, only Form 1
* Only rear terminals

(1) Only 4 poles.
(2) Compatible residual current devices: RC Inst. XT1-XT3, RC Sel.
(3) Kit with recessed mounting plate. Only rear terminals.
XT1-XT3 and RC Sel..XT2-XT4 Type A. For XT1-XT3 fixed with residual current device high terminal covers are not available.

For fixed and withdrawable 3P breakers Tmax XT, non accessorized and mounted on 3/4P kit, it is necessary to order the dedicated cover flanges: AD3305 flange for XT1 3P mounted on plate, AD3306 flange for XT2 3P mounted on plate, AD3307 flange for XT3 3P mounted on plate, AD3308 flange for XT4 3P mounted on plate. With interlocked or interlocked motor-operated kits, it is necessary to order the quantity of flanges equal to the quantity of breakers

Tmax T vertical installation

To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/21.



NON-ACCESSORIZED CIRCUIT-BREAKERS

Front or rear CB connections		No. poles	Dimensions (mm) H	W	No. CB per compart.	FIXED	PLUG-IN	WITHDRAWABLE
T4		3P 4P	350	400	1	PVBT4406		
		3P 4P	350	600	1	PVCT4406		
T5		3P 4P	350	800	2	PVDT5601		PVDT5610
		3P	350	1000	4			PVFT5810
		3P 4P	350	1000	3			PVFT5710
	400A	3P 4P	350	400	1		PVBT5426	PVBT5414
		3P 4P	350	600	1		PVCT5426	PVCT5414
		3P 4P	350	800	1		PVDT5426	PVDT5414
	400/630A	3P 4P	350	400	1	PVBT5406		
		3P 4P	350	600	1	PVCT5406		
		3P 4P	350	800	1	PVDT5406		
		3P 4P	350	600	2	PVCT5712		
		3P 4P	350	800	3	PVDT5813		
		3P 4P	400	600	1		PVCT5407(2)	
		3P 4P	400	800	1		PVDT5407(2)	
	630A[1]	3P	450	600	3	PVCT5710		
		3P	450	800	4	PVDT5810		
		3P	450	600	2			PVCT5601
		3P	450	800	3			PVDT5701
		3P	450	400	1			PVBT5319
		3P	450	600	1		PVCT5307	
T6		3P	450	400	1			PVBT6314
		3P 4P	400	400	1	PVBT6401		
		3P 4P	400	600	1	PVCT6401		
		3P 4P	400	800	1	PVDT6401		
		3P 4P	450	600	1			PVCT6414■
		3P 4P	450	800	1			PVDT6414■
		3P 4P	450	1000	2			PVFT6610■
T7		3P 4P	450	600	1	PVCT7419		
		3P 4P	450	800	1	PVDT7419		
		3P 4P	500	600	1			PVCT7413 *
		3P 4P	500	800	1			PVDT7413 *
		3P 4P	500	1000	2			PVFT7633 *

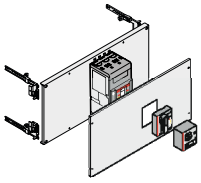
[1] Only front terminals not segregated.
[2] Only 630A.
[3] Kit with recessed mounting plate. Only rear terminals.
■ Front terminals, only Form 1

Internal kits

Quick selection guides

Tmax T vertical installation

To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/21.



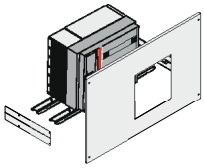
ACCESSORIZED CIRCUIT-BREAKERS

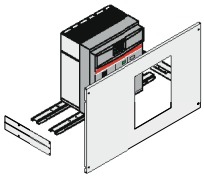
Front or rear CB connections		No. poles	Dimensions (mm) H	W	No. CB per compart.	Residual current device[2]	Direct Rotary Handle	Motor operator	Interlocked	Interlocked motor-operated
FIXED										
T4		3P 4P	350	400	1		PVBT4406	PVBT4404 [1]		
		3P 4P	350	600	1		PVCT4406	PVCT4404 [1]		
		4P	450	400	1	PVBT4423				
		4P	450	600	1	PVCT4423				
T5	400A	4P	450	400	1	PVBT5423				
		4P	450	600	1	PVCT5423				
		4P	450	800	1	PVDT5423				
	400A/630A	3P 4P	350	400	1		PVBT5406	PVBT5404 [1]		
		3P 4P	350	600	1		PVCT5406	PVCT5404 [1]		
		3P 4P	350	800	1		PVDT5406	PVDT5404 [1]		
T6		3P 4P	400	400	1		PVBT6405	PVBT6404 [1]		
		3P 4P	400	600	1		PVCT6405	PVCT6404 [1]		
		3P 4P	400	800	1		PVDT6405	PVDT6404 [1]		
T7		3P 4P	450	600	1			PVCT7419	PVCT7419	PVCT7419
		3P 4P	450	800	1			PVDT7419	PVDT7419	PVDT7419
PLUG-IN										
T5	400A	3P 4P	350	400	1		PVBT5426			
		3P 4P	350	600	1		PVCT5426			
		3P 4P	350	800	1		PVDT5426			
		3P 4P	400	400	1			PVBT5409 [1] [2]		
		3P 4P	400	600	1			PVCT5409 [1] [2]		
		3P 4P	400	800	1			PVDT5409 [1] [2]		
		4P	450	400	1	PVBT5428				
		4P	450	600	1	PVCT5428				
		4P	450	800	1	PVDT5428				
WITHDRAWABLE										
T5		3P 4P	350	800	2			PVDT5612 [1]		
		3P	350	1000	4			PVFT5812		
		3P 4P	350	1000	3			PVFT5712		
	400A	3P 4P	350	400	1		PVBT5414	PVBT5412 [1]		
		3P 4P	350	600	1		PVCT5414	PVCT5412 [1]		
		3P 4P	350	800	1		PVDT5414	PVDT5412 [1]		
		3P 4P	400	600	1			PVCT5430 [1] [2]		
		3P 4P	400	800	1			PVDT5430 [1] [2]		
T6		3P	450	400	1		PVBT6314	PVBT6312 [1]		
		3P 4P	450	600	1		PVCT6414 ■	PVCT6412 [1] ■		
		3P 4P	450	800	1		PVDT6414 ■	PVDT6412 [1] ■		
		3P 4P	450	1000	2		PVFT6610	PVFT6612 ■		
T7		3P 4P	500	600	1			PVCT7413 *	PVCT7413 *	PVCT7413 *
		3P 4P	500	800	1			PVDT7413 *	PVDT7413 *	PVDT7413 *
		3P 4P	500	1000	2			PVFT7633 *		

[1] Kit with recessed mounting plate. Only rear terminals.
[2] Compatible residual current devices: RC222 for T4 and T5.
■ Front terminals, only Form 1
* Only rear terminals

Emax 2 horizontal / vertical installation
To assemble these kits, order the dedicated intermediate depth upright PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm.

Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels.





NON-ACCESSORIZED CIRCUIT-BREAKERS

Front or rear CB connections	No. poles	Dimensions (mm) H	W	FIXED	WITHDRAWABLE
Front or rear connections, horizontal installation					
E1.2	3P 4P	400	600	PHCE1241	
	3P 4P	400	800	PHDE1241	
	3P 4P	500	600		PHCE1240 *
	3P 4P	500	800		PHDE1240 *
Front or rear connections, vertical installation					
E1.2	3P 4P	450	400	PVBE1241	
	3P 4P	450	600	PVCE1241	
	3P 4P	450	800	PVDE1241	
	3P 4P	450	800	PVDE1262(1)	
	3P 4P	500	600		PVCE1240*
	3P 4P	500	800		PVDE1240*
	3P 4P	500	1000		PVFE1263(1)*
Rear connections, vertical installation					
E2.2	3P 4P	600	600	PVCE2441	PVCE2450
	3P 4P	600	800	PVDE2441	PVDE2440
E4.2	3P 4P	600	600	PVCE2442	PVCE4350(2)
	3P 4P	600	800	PVDE2441	PVDE2440
E6.2	3P	700	1000		PVFE6230
E6.2 Neutral 50%	3P 4P	700	1000	PVFE6231	
E6.2 Neutral 50/100%	4P	700	1250		PVGE6230
E6.2 Neutral 50/100%	4P	700	1250	PVGE6231	

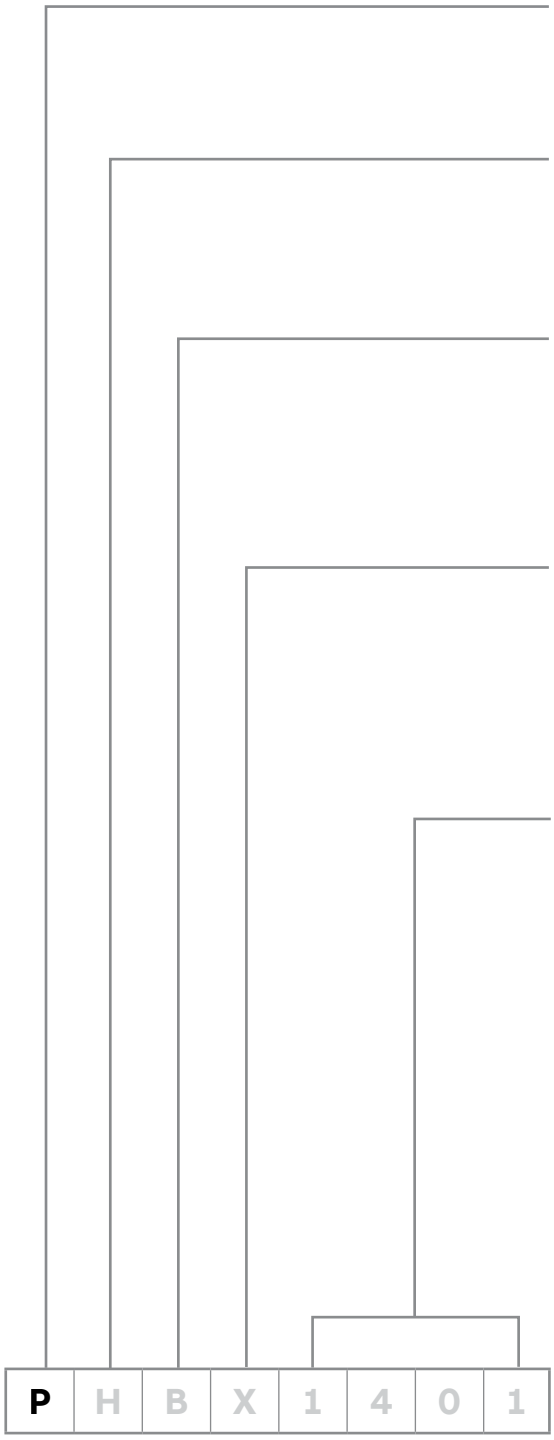
ACCESSORIZED CIRCUIT-BREAKERS

Front or rear CB connections	No. poles	Dimensions (mm) H	W	FIXED INTERLOCKED	WITHDRAWABLE INTERLOCKED
Front or rear connections, horizontal installation					
E1.2	3P 4P	400	600	PHCE1241	
	3P 4P	400	800	PHDE1241	
	3P 4P	500	600		PHCE1240
	3P 4P	500	800		PHDE1240
Front or rear connections, vertical installation					
E1.2	3P 4P	450	400	PVBE1241	
	3P 4P	450	600	PVCE1241	
	3P 4P	450	800	PVDE1241	
	3P 4P	500	600		PVCE1240 *
	3P 4P	500	800		PVDE1240 *
Rear connections, vertical installation					
E2.2	3P 4P	600	600	PVCE2441	PVCE2450
	3P 4P	600	800	PVDE2441	PVDE2440
E4.2	3P	600	600		PVCE4350
	3P 4P	600	800	PVDE2441	PVDE2440
E6.2	3P	700	1000	PVFE6231	PVFE6230
E6.2 50/100% Neutral	4P	700	1250	PVGE6231	PVGE6230

For 3200A busbar systems use structures with D=700mm, for 4000A busbar systems use structures with D=900mm.
(1) Kit for 2 adjacent circuit-breakers.
(2) Only 3 poles.
* Only rear terminals.

Internal kits
Guide to the order codes

The new code is formed by 4 letters standing for English terms and 4 numbers, without spaces in between.



RANGE IDENTIFIER
The first letter of all the codes of the new main distribution switchboard "P" stands for "power". Thus the new product is clearly identified by the same initial used for all new components of ABB's System pro E power

H = Horizontal
V = Vertical
D = DIN-rail
P = Panel
K = Kit
F = Frame

B = 400mm - **C** = 600mm - **D** = 800mm - **F** = 1000mm - **G** = 1250mm (Compartment width)
R = Rail
M = System pro M, Mounting
O = OT
P = Panel
F = Flat
B = Blind

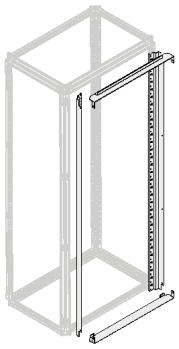
X = Tmax XT
T = Tmax T
E = Emax 2
S = Standard, Swing
F = Front, Fixed
H = Horizontal
V = Vertical
R = Recessed
B = Blind

Tmax
For Tmax, the first out of the four digits combined with the last letter, gives the breakers type. The second digit refers to the number of poles or side-by-side breakers. The last two digits specify the execution as below indicated.
3 = 3 Poles / 4 = 4/3-4 Poles / 6 = 2 Breakers / 7 = 3 Breakers / 8 = 4 Breakers / 9 = 5 Breakers

00 = W - RHD / 01 = F / 02 = F - I / 03 = F - I-MO / 04 = F - MO
05 = F - RHD / 06 = F, F - RHD / 07 = P / 09 = P - MO / 10 = W / 11 = W - I-MO / 12 = W - MO / 13 = W, W - I, W - I-MO, W - MO / 14 = W, W - RHD / 17 = W - RC / 18 = F - I, F - I-MO / 19 = F, F - I, F - I-MO, F - MO / 20 = F, F - RHD, F - MO / 22 = F - I, P - I / 23 = F - RC / 24 = F - I-MO, P - I-MO / 25 = W - I 26 = P, P - RHD / 27 = P - RHD / 28 = P - RC
29 = F, F - I, F - I-MO, F - MO, F – RHD / 30 = W, W - I, W - I-MO, W - MO, W – RHD 31 = P - I, P - I-MO / 32 = P - I-MO / 33 = W, W – MO / 36 = W, W – MO / 46 = W / 56 = W - MO

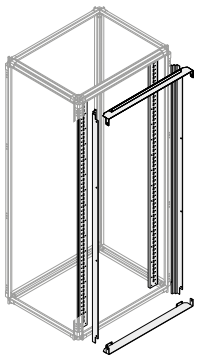
Emax 2
For Emax 2, the first two digits, combined with the last letter, gives the breakers type. The last digit specifies the execution as below indicated.
3 = 3 Poli / 4 = 4 Poli, 3-4 Poli / 5 = 3 o 3-4 Poli / 6 = 4 Poli, 3-4 Poli Cell height=600mm
0 = W, W – I / 1 = F, F – I / 2 = F / 3 = W / 6 = W

Internal kits
Order codes - Internal kits



Fixed frame for panels
fixed frame for internal panels, reduces the available useful space by 135mm, the useful height of the switchboard can be used to full advantage With fixed frame for panels, maximum wiring ducts dimension is 80x60mm.

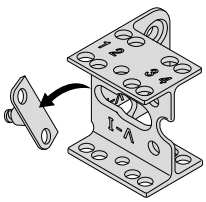
Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Fixed frame for panels	1800	400	PFPF1840	1STQ007449A0000	1/1
Fixed frame for panels	1800	600	PFPF1860	1STQ007450A0000	1/1
Fixed frame for panels	1800	800	PFPF1880	1STQ007451A0000	1/1
Fixed frame for panels	1800	1000	PFPF1810	1STQ007452A0000	1/1
Fixed frame for panels	1800	1250	PFPF1812	1STQ007453A0000	1/1
Fixed frame for panels	2000	400	PFPF2040	1STQ007454A0000	1/1
Fixed frame for panels	2000	600	PFPF2060	1STQ007455A0000	1/1
Fixed frame for panels	2000	800	PFPF2080	1STQ007456A0000	1/1
Fixed frame for panels	2000	1000	PFPF2010	1STQ007457A0000	1/1
Fixed frame for panels	2000	1250	PFPF2012	1STQ007458A0000	1/1



Special fixed frame for panels
fixed frame for internal panels, reduces the available useful space by 135mm, the useful height of the switchboard can be used to full advantage With fixed frame for panels, maximum wiring ducts dimension is 80x60mm. The main advantage of the special fixed frame isto permit the addition of MCCBS kit or Din rail kits without having to remove the entire frame with the front panels already installed.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Special fixed frame for panels	1800	400	PFFA1840	1STQ001889B0000	1/1
Special fixed frame for panels	1800	600	PFFA1860	1STQ001890B0000	1/1
Special fixed frame for panels	1800	800	PFFA1880	1STQ001891B0000	1/1
Special fixed frame for panels	1800	1000	PFFA1810	1STQ001892B0000	1/1
Special fixed frame for panels	1800	1250	PFFA1825	1STQ001893B0000	1/1
Special fixed frame for panels	2000	400	PFFA2040	1STQ001894B0000	1/1
Special fixed frame for panels	2000	600	PFFA2060	1STQ001895B0000	1/1
Special fixed frame for panels	2000	800	PFFA2080	1STQ001896B0000	1/1
Special fixed frame for panels	2000	1000	PFFA2010	1STQ001897B0000	1/1
Special fixed frame for panels	2000	1250	PFFA2025	1STQ001898B0000	1/1

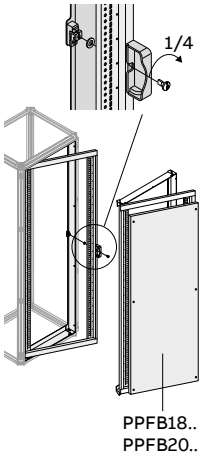
If the distribution system is fixed vertically on the side of the structure without intermediate upright, remove the precut of plate PBBU0008 situated on the front of the structure when a fixed front frame is present.



• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

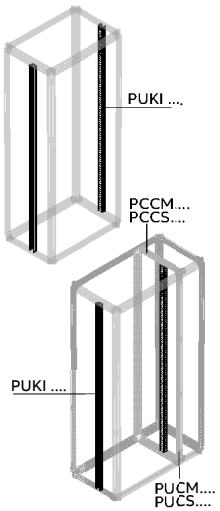
Order codes - Internal kits



Swing frame for panels and counter door application

Swing frame for panels, reduces the available useful space by 136mm. After its opening, it is possible to remove all the internal panels at once or one by one. In structures without intermediate upright, swing frame PFPS.... cannot be installed with horizontal busbars at all height. In combination with flat blind panel H=1800mm or H=2000mm operates or counterdoor application.

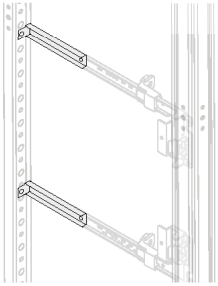
Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Swing frame for panels	1800	400	PFPS1840	1STQ007459A0000	1/1
Swing frame for panels	1800	600	PFPS1860	1STQ007460A0000	1/1
Swing frame for panels	1800	800	PFPS1880	1STQ007461A0000	1/1
Swing frame for panels	2000	400	PFPS2040	1STQ007462A0000	1/1
Swing frame for panels	2000	600	PFPS2060	1STQ007463A0000	1/1
Swing frame for panels	2000	800	PFPS2080	1STQ007464A0000	1/1



Intermediate upright for internal kit assembly

Intermediate depth upright for assembling kits for Tmax and Emax 2. The intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in nonsegregated structures. Order 2 uprights for the kits.

Description	Dimensions (mm) H	Type	Order code	Pkg/ No. pcs
Intermediate upright for internal kits	1800	PUKI1800	1STQ008039A0000	1/1
Intermediate upright for internal kits	2000	PUKI2000	1STQ008040A0000	1/1



Extension kit for D=300mm structures

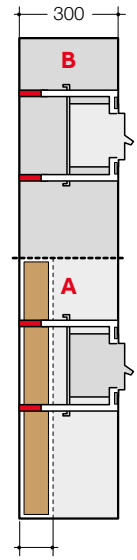
To be used as an alternative to the intermediate upright in D=300mm structures.
The extension kit PKEK0004 cannot be mounted on the first cell at the top or at the bottom of the enclosure, but a minimum H=50mm space must be left empty from the top or the bottom. It consists of 4 parts that connect the ends of the kit fixing brackets to the structural rear uprights of D=300mm structures.
The extension kit can be used for the following applications:
- assembly of circuit-breakers according to the table on page 3-65;
- assembly of OT switch-disconnectors: OT200, OT250, OT160EV, OT315, OT400, OT630 and OT800.

Description	Type	Order code	Pkg/ No. pcs
Extension kit	PKEK0004	1STQ008198A0000	1/1

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits



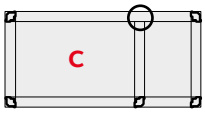
150mm
Maximum encumbrance

Circuit-breakers and busbars that can be installed in D=300mm structures
Only use extension kit PKE0004 with circuit-breakers with terminals with Front connections.

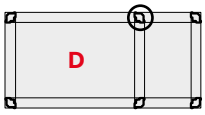
Circuit-breaker version	XT1	XT2	XT3	XT4	T4	XT5/T5	XT6/T6	XT7/T7	E1.1
Fixed	■	■	■	■	■	■	■	●	●
Fixed with Direct Rotary Handle (RHD)	■	◆	■	◆	●	●	●	●	
Fixed with motor operator (MO)	●	●	●	●	●	●	●	●	
Fixed interlocked	●	●	●	●	●	●	●	●	●
Fixed interlocked motor-operated								●	●
Plug-in	◆	●	◆	●	●	●			
Plug-in with Direct Rotary Handle (RHD)	●	●	●	●	●	●			
Plug-in with motor operator (MO)	●	●	●	●					
Plug-in interlocked	●		●						
Plug-in interlocked motor-operated									
Withdrawable		●		●	●	●	●		
Withdrawable with Direct Rotary Handle (RHD)		●		●	●	●	●		
Withdrawable with motor operator (MO)		●		●					
Withdrawable interlocked									
Withdrawable interlocked motor-operated									

Key
● Circuit-breaker for installation with extension in position B
■ Circuit-breaker for installation without extension in position A and B
◆ Circuit-breaker for installation with extension in position A and B

D=300mm structure and cable container without rear upright



D=300mm structure and cable container without rear upright



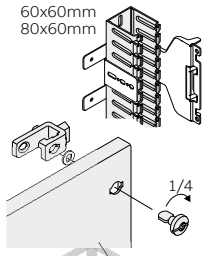
Circuit-breakers and busbars that can be installed in D=300mm structures with cable container
Only use circuit-breakers with front terminals.

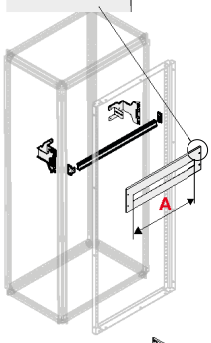
Circuit-breaker version	XT1	XT2	XT3	XT4	T4	XT5/T5	XT6/T6	XT7/T7	E1.1
Fixed	■	■	■	■	■	■	■	●	●
Fixed with Direct Rotary Handle (RHD)	■	●	■	●	●	●	●	●	
Fixed with motor operator (MO)	●	●	●	●	●	●	●	●	
Fixed interlocked	●	●	●	●	●	●	●	●	●
Fixed interlocked motor-operated								●	●
Plug-in	●	●	●	●	●	●			
Plug-in with Direct Rotary Handle (RHD)	●	●	●	●	●	●			
Plug-in with motor operator (MO)	●	●	●	●					
Plug-in interlocked	●		●						
Plug-in interlocked motor-operated									
Withdrawable		●		●	●	●	●		
Withdrawable with Direct Rotary Handle (RHD)		●		●	●	●	●		
Withdrawable with motor operator (MO)		●		●					
Withdrawable interlocked									
Withdrawable interlocked motor-operated									

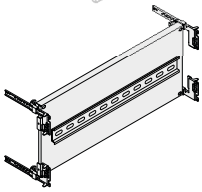
Legenda
■ Circuit-breaker for installation without extension in C structures
● Circuit-breaker for installation with extension in D structures

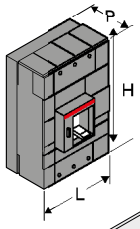
Internal kits

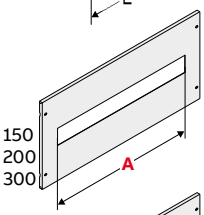
Order codes - Internal kits

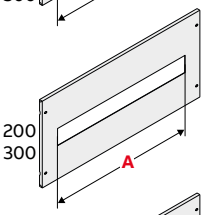


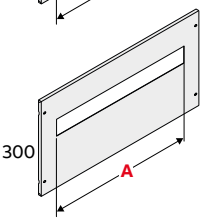












Kits for DIN rail

Swing frame for panels, reduces the available useful space by 100mm. After its opening, it is possible to remove all the internal panels at once or one by one. In structures without intermediate upright, swing frame PFPS.... cannot be installed with horizontal busbars at all height. In combination with flat blind panel H=1800mm or H=2000mm operates or counterdoor application.

Description	Dimensions (mm) W	Tipo	Codice d'ordine	Conf./ N°pezzi
Standard DIN rail				
Standard DIN rail	400	PDRS0400	1STQ008041A0000	1/1
Standard DIN rail	600	PDRS0600	1STQ008042A0000	1/1
Standard DIN rail	800	PDRS0800	1STQ008043A0000	1/1
Pre-assembled DIN rail				
Pre-assembled DIN rail	400	PDRM0400	1STQ002549A0000	1/1
Pre-assembled DIN rail	600	PDRM0600	1STQ002550A0000	1/1
Pre-assembled DIN rail	800	PDRM0800	1STQ002551A0000	1/1

Mounting cable duct: with fixed frame 60x60mm; with swing frame 80x60mm (height x length)

Reinforced Din rail NEW*

Description	Dimensions (mm) H	W	Tipo	Codice d'ordine	Conf./ N°pezzi
Reinforced DiIN rail	200	400	PDRR0400	1STQ002138B0000	1/1
Reinforced DiIN rail	200	600	PDRR0600	1STQ002139B0000	1/1
Reinforced DiIN rail	200	800	PDRR0800	1STQ002140B0000	1/1

Mounting cable duct: with fixed frame 60x60mm; with swing frame 80x60mm (height x length)

No. of Tmax XT1 and XT3 circuit breakers that can be installed per DIN row.

Tmax XT1 and XT3 fixed

Tmax	No. poles	Circuit breaker dimensions W	H	D	12 mod.DIN Panel hole A (mm)	12 mod.DIN Max. number of circuit breakers per row	24 mod.DIN Panel hole A (mm)	24 mod.DIN Max. number of circuit breakers per row	36 mod.DIN Panel hole A (mm)	36 mod.DIN Max. number of circuit breakers per row
XT1	3	76,2	130	70	**250**	3	450	5	650	8
XT1	4	101,6	130	70	**250**	2	450	4	650	6
XT3	3	105	150	70	**250**	2	450	4	650	6
XT3	4	140	140	70	**250**	1	450	3	650	4

Tmax XT1 fixed + RC sel 200

Tmax	No. poles	Circuit breaker dimensions W	H	D	12 mod.DIN Panel hole A (mm)	12 mod.DIN Max. number of circuit breakers per row	24 mod.DIN Panel hole A (mm)	24 mod.DIN Max. number of circuit breakers per row	36 mod.DIN Panel hole A (mm)	36 mod.DIN Max. number of circuit breakers per row
XT1	4	153,2	130	70	**250**	1	450	2	650	4

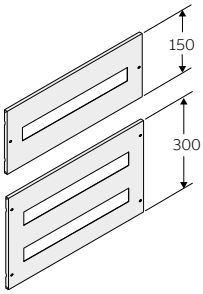
Tmax XT1 e XT3 fixed + Rc Inst/Rc sel

Tmax	No. poles	Dimensioni interruttore (mm) W	H	D	12 mod.DIN Panel hole A (mm)	12 mod.DIN Max. number of circuit breakers per row	24 mod.DIN Panel hole A (mm)	24 mod.DIN Max. number of circuit breakers per row	36 mod.DIN Panel hole A (mm)	36 mod.DIN Max. number of circuit breakers per row
XT1	3	106,2	130	70	**250**	2	450	4	650	6
XT1	4	131,2	130	70	**250**	1	450	3	650	5
XT3	3	135	150	70	**250**	1	450	3	650	4
XT3	4	170	150	70	**250**	1	450	2	650	3

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits

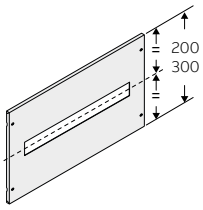


XT1 3/4P F
XT3 3/4P F

Panels for System Pro-M modular circuit-breakers

Panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Panel with 12 DIN modules	150	400	PPMF1540	1STQ008044A0000	1/1
Panel with 24 DIN modules	150	600	PPMF1560	1STQ008045A0000	1/1
Panel with 36 DIN modules	150	800	PPMF1580	1STQ008046A0000	1/1
Panel with 12x2 DIN modules	300	400	PPMF3040	1STQ008050A0000	1/1
Panel with 24x2 DIN modules	300	600	PPMF3060	1STQ008051A0000	1/1
Panel with 36x2 DIN modules	300	800	PPMF3080	1STQ008052A0000	1/1



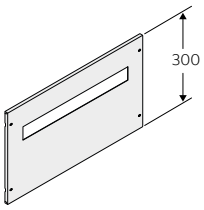
XT1 3/4P F
XT3 3/4P F
XT1 4P F+RC Sel 200

Panels for System Pro-M modular circuit-breakers and Tmax XT1 and Tmax XT3 moulded-case circuit-breakers not accessored or with differential module side RC sel 200[1]

Panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Panel with 12 DIN modules	200	400	PPMF2040	1STQ008047A0000	1/1
Panel with 24 DIN modules	200	600	PPMF2060	1STQ008048A0000	1/1
Panel with 36 DIN modules	200	800	PPMF2080	1STQ008049A0000	1/1
Panel with 24 DIN modules	300	600	PPMU3060	1STQ008299A0000	1/1
Panel with 36 DIN modules	300	800	PPMU3080	1STQ008300A0000	1/1

[1] The bracket and glossy plate kit can be ordered from the circuit-breaker catalogue. The sole glossy plate is available among the accessories in this catalogue.



XT1 3/4P F
XT3 3/4P F
XT1 4P F+RC Sel 200
XT1 3/4P F+ Rc Inst/Rc sel
XT3 3/4P F+ Rc Inst/Rc sel

Panels for Tmax XT1 and Tmax XT3 moulded-case circuit-breakers with differential module underplace RC [1]

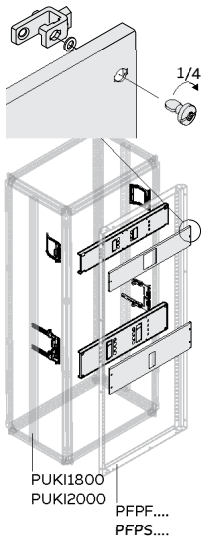
Panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Panel with 12 DIN modules	300	400	PPMD3040	1STQ001560B0000	1/1
Panel with 24 DIN modules	300	600	PPMD3060	1STQ001561B0000	1/1
Panel with 36 DIN modules	300	800	PPMD3080	1STQ001562B0000	1/1

[1] The bracket and glossy plate kit can be ordered from the circuit-breaker catalogue. The sole glossy plate is available among the accessories in this catalogue.

Internal kits

Order codes - Internal kits



Kits for installation of Tmax circuit-breakers

HORIZONTAL INSTALLATION (front or rear connections)

The kit includes the dedicated fixing brackets, the mounting plate and panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
12 DIN modules - W=400mm							
XT1	3	F - RC	200	1	PHBX1323	1STQ001442B0000	1/1
XT1	3/4	F	150	1	PHBX1401	1STQ007757A0000	1/1
XT1	3/4	F - RHD	150	1	PHBX1405	1STQ007761A0000	1/1
XT1	3/4	F	200	1	PHBX1101	1STQ008473A0000	1/1
XT1	3/4	F - MO	200	1	PHBX1404	1STQ007759A0000	1/1
XT1	3/4	P	200	1	PHBX1407	1STQ007763A0000	1/1
XT1	3/4	P - MO	200	1	PHBX1409 (1)	1STQ007765A0000	1/1
XT1	3/4	P - RHD	200	1	PHBX1427	1STQ007767A0000	1/1
XT1	3/4	F - RHD	200	1	PHBX1105	1STQ008475A0000	1/1
XT1	3/4	F - I	500	2	PHBX1422	1STQ008410A0000	1/1
XT1	3/4	F - I-MO	500	2	PHBX1424 (1)	1STQ008411A0000	1/1
XT1	3/4	P - I	500	2	PHBX1422	1STQ008410A0000	1/1
XT1	3/4	P - I-MO	500	2	PHBX1424 (1)	1STQ008411A0000	1/1
XT1	4	F - RC	200	1	PHBX1423	1STQ007769A0000	1/1
XT2	3	F	150	1	PHBX2301	1STQ007771A0000	1/1
XT2	3	W	200	1	PHBX2310	1STQ007787A0000	1/1
XT2	3	W - MO	200	1	PHBX2312 (1)	1STQ007789A0000	1/1
XT2	3	W - RHD	200	1	PHBX2300	1STQ007791A0000	1/1
XT2	3/4	F	200	1	PHBX2401	1STQ007773A0000	1/1
XT2	3/4	F - MO	200	1	PHBX2404	1STQ007775A0000	1/1
XT2	3/4	F - RHD	200	1	PHBX2405	1STQ007779A0000	1/1
XT2	3/4	P	200	1	PHBX2407	1STQ007781A0000	1/1
XT2	4	P - RC	250	1	PHBX2428	1STQ001450B0000	1/1
XT2	3/4	P - MO	200	1	PHBX2409 (1)	1STQ007783A0000	1/1
XT2	3/4	P - RHD	200	1	PHBX2427	1STQ007785A0000	1/1
XT2	3/4	W	250	1	PHBX2410	1STQ007793A0000	1/1
XT2	3/4	W - MO	250	1	PHBX2412 (1)	1STQ007795A0000	1/1
XT2	3/4	W - RHD	250	1	PHBX2400	1STQ007799A0000	1/1
XT2	3/4	F - I	500	2	PHBX2402	1STQ008412A0000	1/1
XT2	3/4	F - I-MO	500	2	PHBX2424 (1)	1STQ008415A0000	1/1
XT2	3/4	P - I	500	2	PHBX2431 (1)	1STQ008413A0000	1/1
XT2	3/4	P - I-MO	500	2	PHBX2424 (1)	1STQ008415A0000	1/1
XT2	3/4	W - I	500	2	PHBX2425 (1)	1STQ008414A0000	1/1
XT2	3/4	W - I-MO	500	2	PHBX2425 (1)	1STQ008414A0000	1/1
XT2	4	F - RC	200	1	PHBX2423	1STQ007777A0000	1/1
XT3	3	F	150	1	PHBX3301*	1STQ007801A0000	1/1
XT3	3	F - RHD	150	1	PHBX3305	1STQ007803A0000	1/1
XT3	3/4	F	200	1	PHBX3401*	1STQ007805A0000	1/1
XT3	3/4	F - MO	200	1	PHBX3404	1STQ007807A0000	1/1
XT3	3/4	F - RHD	200	1	PHBX3405	1STQ007809A0000	1/1
XT3	3/4	P	200	1	PHBX3407	1STQ007811A0000	1/1
XT3	3/4	P - MO	200	1	PHBX3409	1STQ007813A0000	1/1
XT3	3/4	P - RHD	200	1	PHBX3427	1STQ007815A0000	1/1
XT3	3/4	F - I	500	2	PHBX3422	1STQ008417A0000	1/1
XT3	3/4	F - I-MO	500	2	PHBX3424 (1)	1STQ008418A0000	1/1

Attention: for interlocked circuit breakers kits the interlocking plate is not included.

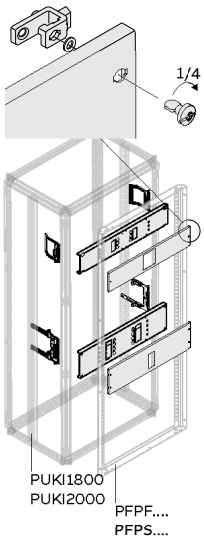
(1) Kit with recessed mountin plate. Only rear terminals.

* Not compatible with high terminal covers.

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits



Kits for installation of Tmax circuit-breakers

HORIZONTAL INSTALLATION (front or rear connections)

The kit includes the dedicated fixing brackets, the mounting plate and panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
12 DIN modules - W=400mm							
XT3	3/4	P - I	500	2	PHBX3422	1STQ008417A0000	1/1
XT3	3/4	P - I-MO	500	2	PHBX3424 (1)	1STQ008418A0000	1/1
XT3	4	F - RC	250	1	PHBX3423*	1STQ007817A0000	1/1
XT4	3	F	150	1	PHBX4301*	1STQ007819A0000	1/1
XT4	3/4	F	200	1	PHBX4401*	1STQ007821A0000	1/1
XT4	3/4	F - MO	200	1	PHBX4404	1STQ007823A0000	1/1
XT4	3/4	F - RHD	200	1	PHBX4405	1STQ007827A0000	1/1
XT4	3/4	P	200	1	PHBX4407	1STQ007829A0000	1/1
XT4	4	P - RC	250	1	PHBX4428	1STQ001451B0000	1/1
XT4	3/4	P - MO	200	1	PHBX4409 (1)	1STQ007831A0000	1/1
XT4	3/4	P - RHD	200	1	PHBX4427	1STQ007833A0000	1/1
XT4	3/4	W	250	1	PHBX4410	1STQ007835A0000	1/1
XT4	3/4	W - MO	250	1	PHBX4412 (1)	1STQ007837A0000	1/1
XT4	3/4	W - RHD	250	1	PHBX4400	1STQ007841A0000	1/1
XT4	3/4	F - I	500	2	PHBX4402	1STQ008419A0000	1/1
XT4	3/4	F - I-MO	500	2	PHBX4424 (1)	1STQ008422A0000	1/1
XT4	3/4	P - I	500	2	PHBX4431 (1)	1STQ008420A0000	1/1
XT4	3/4	P - I-MO	500	2	PHBX4424 (1)	1STQ008422A0000	1/1
XT4	3/4	W - I	500	2	PHBX4425 (1)	1STQ008421A0000	1/1
XT4	3/4	W - I-MO	500	2	PHBX4425 (1)	1STQ008421A0000	1/1
XT4	4	F - RC	200	1	PHBX4423	1STQ007825A0000	1/1

Attention: for interlocked circuit breakers kits the interlocking plate is not included.
(1) Kit with recessed mounting plate. Only rear terminals.

* Not compatible with high terminal covers.

To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/21. For fixed and withdrawable 3P breakers Tmax XT, non accessorized and mounted on 3/4P kit, it is necessary to order the dedicated cover flanges: AD3305 flange for XT1 3P mounted on plate, AD3306 flange for XT2 3P mounted on plate, AD3307 flange for XT3 3P mounted on plate, AD3308 flange for XT4 3P mounted on plate. With interlocked or interlocked motor-operated kits, it is necessary to order the quantity of flanges equal to the quantity of breakers.

Compatible residual current devices:
Tmax XT
RC Inst XT1-XT3, RC Sel. XT1-XT3 and RC Sel.. XT2-XT4 Type A. For XT1-XT3 fixed with residual current device high terminal covers are not available.
Tmax T
RC222 for T4 and T5.

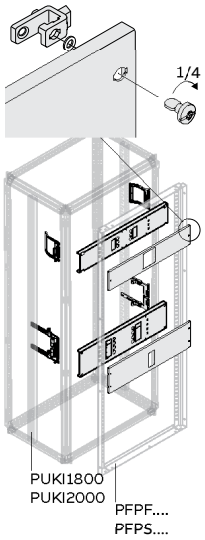
Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motoroperated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits



Kits for installation of Tmax circuit-breakers

HORIZONTAL INSTALLATION (attacchi Front o Rear)

The kit includes the dedicated fixing brackets, the mounting plate and panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
12 DIN modules - W=400mm							
XT5 **NEW**	3	F - RHD 400/630A	200	1	PHBX5306*	1STQ007071B0000	1/1
XT5 **NEW**	3	F - 400/630A	200	1	PHBX5329*	1STQ007616B0000	1/1
XT5 **NEW**	3/4	F - RHD 400/630A	250	1	PHBX5406*	1STQ007074B0000	1/1
XT5 **NEW**	3/4	F - 400/630A	250	1	PHBX5420*	1STQ007618B0000	1/1
XT5 **NEW**	3	F - MO 400/630A	200	1	PHBX5304 (1)	1STQ007079B0000	1/1
XT5 **NEW**	3/4	F - MO 400/630A	250	1	PHBX5404 (1)	1STQ007082B0000	1/1
XT5 **NEW**	3	P - RHD 400A	200	1	PHBX5326	1STQ007087B0000	1/1
XT5 **NEW**	3	P - 400A	200	1	PHBX5307	1STQ007617B0000	1/1
XT5 **NEW**	3/4	P - RHD 400A	250	1	PHBX5426	1STQ007090B0000	1/1
XT5 **NEW**	3/4	P - 400A	250	1	PHBX5427	1STQ007619B0000	1/1
XT5 **NEW**	3	P - MO 400A	200	1	PHBX5309 (1)	1STQ007096B0000	1/1
XT5 **NEW**	3/4	P - MO 400A	250	1	PHBX5409 (1)	1STQ007099B0000	1/1
XT5 **NEW**	3	W - RHD 400A	300	1	PHBX5314	1STQ007108B0000	1/1
XT5 **NEW**	3/4	W - RHD 400A	350	1	PHBX5414	1STQ007111B0000	1/1
XT5 **NEW**	3	W - MO 400A	300	1	PHBX5312 (1)	1STQ007115B0000	1/1
XT5 **NEW**	3/4	W - MO 400A	350	1	PHBX5412 (1)	1STQ007118B0000	1/1
T4	3	F	150	1	PHBT4301*	1STQ007843A0000	1/1
T4	3/4	F	200	1	PHBT4406*	1STQ007845A0000	1/1
T4	3/4	F - MO	200	1	PHBT4404 (1)	1STQ007847A0000	1/1
T4	3/4	F - RHD	200	1	PHBT4406*	1STQ007845A0000	1/1
T4	3/4	F - I	600	2	PHBT4402	1STQ008424A0000	1/1
T5	3	F 400A/630A	200	1	PHBT5306*	1STQ007850A0000	1/1
T5	3	F - MO 400A/630A	200	1	PHBT5304 (1)	1STQ007852A0000	1/1
T5	3	F - RHD 400A/630A	200	1	PHBT5306*	1STQ007850A0000	1/1
T5	3	P 400A	200	1	PHBT5326	1STQ007854A0000	1/1
T5	3	P - MO 400A	200	1	PHBT5309 (1)	1STQ008406A0000	1/1
T5	3	P - RHD 400A	200	1	PHBT5326	1STQ007854A0000	1/1
T5	3	W 400A	300	1	PHBT5314	1STQ007862A0000	1/1
T5	3	W - MO 400A	300	1	PHBT5312 (1)	1STQ008408A0000	1/1
T5	3	W - RHD 400A	300	1	PHBT5314	1STQ007862A0000	1/1
T5	3/4	F 400A/630A	250	1	PHBT5406*	1STQ007856A0000	1/1
T5	3/4	F - MO 400A/630A	250	1	PHBT5404 (1)	1STQ007858A0000	1/1
T5	3/4	F - RHD 400A/630A	250	1	PHBT5406*	1STQ007856A0000	1/1
T5	3/4	P 400A	250	1	PHBT5426	1STQ007860A0000	1/1
T5	3/4	P - MO 400A	250	1	PHBT5409 (1)	1STQ008407A0000	1/1
T5	3/4	P - RHD 400A	250	1	PHBT5426	1STQ007860A0000	1/1
T5	3/4	W 400A	350	1	PHBT5414	1STQ007864A0000	1/1
T5	3/4	W - MO 400A	350	1	PHBT5412 (1)	1STQ008409A0000	1/1
T5	3/4	W - RHD 400A	350	1	PHBT5414	1STQ007864A0000	1/1

* Not compatible with high terminal covers.

(1) Kit with recessed mounting plate. Only rear terminals.

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
24 DIN modules - W=600mm							
XT1	3/4	F	200	1	PHCX1101	1STQ008474A0000	1/1
XT1	3	F - RC	200	1	PHCX1323	1STQ001443B0000	1/1
XT1	3/4	F	150	1	PHCX1401	1STQ007758A0000	1/1
XT1	3/4	F - RHD	150	1	PHCX1405	1STQ007762A0000	1/1
XT1	3/4	F - RHD	200	1	PHCX1105	1STQ008476A0000	1/1
XT1	3/4	F - MO	200	1	PHCX1404	1STQ007760A0000	1/1
XT1	3/4	P	200	1	PHCX1407	1STQ007764A0000	1/1
XT1	3/4	P - MO	200	1	PHCX1409	1STQ007766A0000	1/1
XT1	3/4	P - RHD	200	1	PHCX1427	1STQ007768A0000	1/1
XT1	3/4	F - I	500	2	PHCX1422	1STQ008432A0000	1/1
XT1	3/4	F - I-MO	500	2	PHCX1424 (1)	1STQ008433A0000	1/1
XT1	3/4	P - I	500	2	PHCX1422	1STQ008432A0000	1/1
XT1	3/4	P - I-MO	500	2	PHCX1424 (1)	1STQ008433A0000	1/1
XT1	4	F - RC	200	1	PHCX1423	1STQ007770A0000	1/1
XT2	3	F	150	1	PHCX2301	1STQ007772A0000	1/1
XT2	3	W	200	1	PHCX2310	1STQ007788A0000	1/1
XT2	3	W - MO	200	1	PHCX2312 (1)	1STQ007790A0000	1/1
XT2	3	W - RHD	200	1	PHCX2300	1STQ007792A0000	1/1
XT2	3/4	F	200	1	PHCX2401	1STQ007774A0000	1/1
XT2	3/4	F - MO	200	1	PHCX2404	1STQ007776A0000	1/1
XT2	3/4	F - RHD	200	1	PHCX2405	1STQ007780A0000	1/1
XT2	3/4	P	200	1	PHCX2407	1STQ007782A0000	1/1
XT2	3/4	P - MO	200	1	PHCX2409 (1)	1STQ007784A0000	1/1
XT2	3/4	P - RHD	200	1	PHCX2427	1STQ007786A0000	1/1
XT2	3/4	W	250	1	PHCX2410	1STQ006245A0000	1/1

Attention: for interlocked circuit breakers kits the interlocking plate is not included.

(1) Kit with recessed mounting plates. Only rear terminal

To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/21. For fixed and withdrawable 3P breakers Tmax XT, non accessorized and mounted on 3/4P kit, it is necessary to order the dedicated cover flanges: AD3305 flange for XT1 3P mounted on plate, AD3306 flange for XT2 3P mounted on plate, AD3307 flange for XT3 3P mounted on plate, AD3308 flange for XT4 3P mounted on plate. With interlocked or interlocked motor-operated kits, it is necessary to order the quantity of flanges equal to the quantity of breakers.

Compatible residual current devices:
Tmax XT
RC Inst XT1-XT3, RC Sel. XT1-XT3 and RC Sel.. XT2-XT4 Type A. For XT1-XT3 fixed with residual current device high terminal covers are not available.
Tmax T
RC222 for T4 and T5.

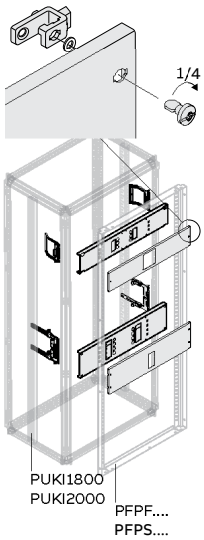
Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motoroperated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits



Kits for installation of Tmax circuit-breakers

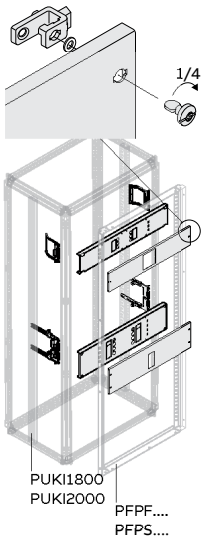
HORIZONTAL INSTALLATION (front or rear connections)

The kit includes the dedicated fixing brackets, the mounting plate and panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.
The kit for T7 W can only be assembled in one direction, with neutral at the bottom.

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
24 DIN modules - W=600mm							
XT2 NEW*	4	P-RC	250	1	PHCX2428	1STQ006245B0000	1/1
XT2	3/4	W - MO	250	1	PHCX2412 (1)	1STQ007796A0000	1/1
XT2	3/4	W - RHD	250	1	PHCX2400	1STQ007800A0000	1/1
XT2	3/4	F - I	500	2	PHCX2402	1STQ008434A0000	1/1
XT2	3/4	F - I-MO	500	2	PHCX2424 (1)	1STQ008437A0000	1/1
XT2	3/4	P - I	500	2	PHCX2431 (1)	1STQ008435A0000	1/1
XT2	3/4	P - I-MO	500	2	PHCX2424 (1)	1STQ008437A0000	1/1
XT2	3/4	W - I	500	2	PHCX2425 (1)	1STQ008436A0000	1/1
XT2	3/4	W - I-MO	500	2	PHCX2425 (1)	1STQ008436A0000	1/1
XT2	4	F - RC	200	1	PHCX2423	1STQ007778A0000	1/1
XT2	4	W - RC	250	1	PHCX2417	1STQ007798A0000	1/1
XT3	3	F	150	1	PHCX3301	1STQ007802A0000	1/1
XT3	3	F - RHD	150	1	PHCX3305	1STQ007804A0000	1/1
XT3	3/4	F	200	1	PHCX3401	1STQ007806A0000	1/1
XT3	3/4	F - MO	200	1	PHCX3404	1STQ007808A0000	1/1
XT3	3/4	F - RHD	200	1	PHCX3405	1STQ007810A0000	1/1
XT3	3/4	P	200	1	PHCX3407	1STQ007812A0000	1/1
XT3	3/4	P - MO	200	1	PHCX3409	1STQ007814A0000	1/1
XT3	3/4	P - RHD	200	1	PHCX3427	1STQ007816A0000	1/1
XT3	3/4	F - I	500	2	PHCX3422	1STQ008439A0000	1/1
XT3	3/4	F - I-MO	500	2	PHCX3424 (1)	1STQ008440A0000	1/1
XT3	3/4	P - I	500	2	PHCX3422	1STQ008439A0000	1/1
XT3	3/4	P - I-MO	500	2	PHCX3424 (1)	1STQ008440A0000	1/1
XT3	4	F - RC	250	1	PHCX3423	1STQ007818A0000	1/1
XT4	3	F	150	1	PHCX4301	1STQ007820A0000	1/1
XT4	3/4	F	200	1	PHCX4401	1STQ007822A0000	1/1
XT4	3/4	F - MO	200	1	PHCX4404	1STQ007824A0000	1/1
XT4	3/4	F - RHD	200	1	PHCX4405	1STQ007828A0000	1/1
XT4	3/4	P	200	1	PHCX4407	1STQ007830A0000	1/1
XT4	3/4	P - MO	200	1	PHCX4409 (1)	1STQ007832A0000	1/1
XT4	3/4	P - RHD	200	1	PHCX4427	1STQ007834A0000	1/1
XT4	3/4	W	250	1	PHCX4410	1STQ007836A0000	1/1
XT4	3/4	W - MO	250	1	PHCX4412 (1)	1STQ007838A0000	1/1
XT4	3/4	W - RHD	250	1	PHCX4400	1STQ007842A0000	1/1
XT4	3/4	F - I	500	2	PHCX4402	1STQ008441A0000	1/1
XT4	3/4	F - I-MO	500	2	PHCX4424 (1)	1STQ008444A0000	1/1
XT4	3/4	P - I	500	2	PHCX4431 (1)	1STQ008442A0000	1/1
XT4	3/4	P - I-MO	500	2	PHCX4424 (1)	1STQ008444A0000	1/1
XT4	3/4	W - I	500	2	PHCX4425 (1)	1STQ008443A0000	1/1
XT4	3/4	W - I-MO	500	2	PHCX4425 (1)	1STQ008443A0000	1/1
XT4	4	F - RC	200	1	PHCX4423	1STQ007826A0000	1/1

Internal kits

Order codes - Internal kits



Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
24 DIN modules - W=600mm							
XT4 **NEW**	4	P-RC	250	1	PHCX4428	1STQ006246B0000	1/1
XT4	4	W - RC	250	1	PHCX4417	1STQ007840A0000	1/1
XT5 **NEW**	3	F - RHD 400/630A	200	1	PHCX5306	1STQ007072B0000	1/1
XT5 **NEW**	3	F - 400/630A	200	1	PHCX5320	1STQ007620B0000	1/1
XT5 **NEW**	3/4	F - RHD 400/630A	250	1	PHCX5406	1STQ007075B0000	1/1
XT5 **NEW**	3/4	F - 400/630A	250	1	PHCX5420	1STQ007622B0000	1/1
XT5 **NEW**	4	F - RC 400A	250	1	PHCX5423	1STQ007077B0000	1/1
XT5 **NEW**	3	F - MO 400/630A	200	1	PHCX5304 (1)	1STQ007080B0000	1/1
XT5 **NEW**	3/4	F - MO 400/630A	250	1	PHCX5404 (1)	1STQ007083B0000	1/1
XT5 **NEW**	3/4	F - I 400/630A	600	2	PHCX5402	1STQ007085B0000	1/1
XT5 **NEW**	3/4	F - I - MO 400/630A	600	2	PHCX5403 (1)	1STQ007086B0000	1/1
XT5 **NEW**	3	P - RHD 400A	200	1	PHCX5326	1STQ007088B0000	1/1
XT5 **NEW**	3	P - 400A	200	1	PHCX5308	1STQ007621B0000	1/1
XT5 **NEW**	3/4	P - RHD 400A	250	1	PHCX5426	1STQ007091B0000	1/1
XT5 **NEW**	3/4	P - 400A	250	1	PHCX5428	1STQ007624B0000	1/1
XT5 **NEW**	3	P - 630A	200	1	PHCX5307*	1STQ007093B0000	1/1
XT5 **NEW**	3/4	P - 630A	250	1	PHCX5407	1STQ007094B0000	1/1
XT5 **NEW**	3	P - MO 400A	200	1	PHCX5309 (1)	1STQ007097B0000	1/1
XT5 **NEW**	3/4	P - MO 400A	250	1	PHCX5409 (1)	1STQ007100B0000	1/1
XT5 **NEW**	3/4	P - MO 630A	250	1	PHCX5427 (1)	1STQ007102B0000	1/1
XT5 **NEW**	3/4	P - I 400/603A	600	2	PHCX5431 (1)	1STQ007104B0000	1/1
XT5 **NEW**	3/4	P - I - MO 400/603A	600	2	PHCX5432 (1)	1STQ007106B0000	1/1
XT5 **NEW**	3	W - RHD	300	1	PHCX5314	1STQ007109B0000	1/1
XT5 **NEW**	3/4	W - RHD 400A	350	1	PHCX5414	1STQ007112B0000	1/1
XT5 **NEW**	3	W - 630A	300	1	PHCX5310*	1STQ007114B0000	1/1
XT5 **NEW**	3	W - MO 400A	300	1	PHCX5312 (1)	1STQ007116B0000	1/1
XT5 **NEW**	3/4	W - MO 400A	350	1	PHCX5412 (1)	1STQ007119B0000	1/1

Attention: for interlocked circuit breakers kits the interlocking plate is not included.
(1) Kit with recessed mounting plate. Only rear terminals.

** T6 1000A front terminals in width 800mm.
■ Front terminals, only Form 1
(1) Kit with recessed mounting plate. Only rear terminals.

To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/21. For fixed and withdrawable 3P breakers Tmax XT, non accessorized and mounted on 3/4P kit, it is necessary to order the dedicated cover flanges: AD3305 flange for XT1 3P mounted on plate, AD3306 flange for XT2 3P mounted on plate, AD3307 flange for XT3 3P mounted on plate, AD3308 flange for XT4 3P mounted on plate. With interlocked or interlocked motor-operated kits, it is necessary to order the quantity of flanges equal to the quantity of breakers.

Compatible residual current devices:
Tmax XT
RC Inst XT1-XT3, RC Sel. XT1-XT3 and RC Sel.. XT2-XT4 Type A. For XT1-XT3 fixed with residual current device high terminal covers are not available.
Tmax T
RC222 for T4 and T5.

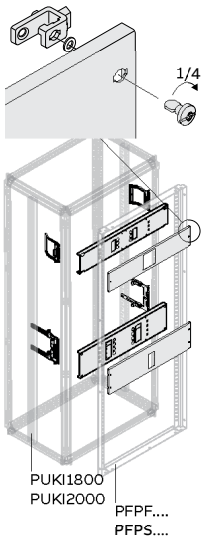
Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motoroperated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits



Kits for installation of Tmax circuit-breakers

HORIZONTAL INSTALLATION (front or rear connections)

The kit includes the dedicated fixing brackets, the mounting plate and panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
24 DIN modules - W=600mm							
XT5 **NEW**	3/4	W - I 400/630A	600	2	PHCX5425 (1)	1STQ007121B0000	1/1
XT5 **NEW**	3/4	W - I - MO 400/630A	600	2	PHCX5411 (1)	1STQ007123B0000	1/1
XT6 **NEW**	3	F	300	1	PHCX6301	1STQ007924B0000	1/1
XT6 **NEW**	3	F - MO	300	1	PHCX6304 (1)	1STQ007926B0000	1/1
XT6 **NEW**	3	F - RHD	300	1	PHCX6305	1STQ007928B0000	1/1
XT6 **NEW**	3/4	F - MO	350	1	PHCX6404 (1)	1STQ007931B0000	1/1
XT6 **NEW**	3/4	F - RHD	350	1	PHCX6405	1STQ007933B0000	1/1
XT6 **NEW**	3	W - MO	350	1	PHCX6312 (1)	1STQ007935B0000	1/1
XT6 **NEW**	3	W	350	1	PHCX6314*	1STQ007937B0000	1/1
XT6 **NEW**	3/4	W	500	1	PHCX6410*	1STQ007939B0000	1/1
XT6 **NEW**	3/4	W - MO	500	1	PHCX6412 (1)	1STQ007940B0000	1/1
XT6 **NEW**	3/4	W - RHD	500	1	PHCX6400*	1STQ007942B0000	1/1
XT6 **NEW**	3/4	F - I	700	2	PHCX6402	1STQ007958B0000	1/1
XT6 **NEW**	3/4	F - I - MO	700	2	PHCX6403 (1)	1STQ007959B0000	1/1
XT6 **NEW**	3/4	W - I	700	2	PHCX6425 (1)	1STQ007960B0000	1/1
XT6 **NEW**	3/4	W - I - MO	700	2	PHCX6411 (1)	1STQ007961B0000	1/1
XT6 **NEW**	3/4	F	350	1	PHCX6401	1STQ007964B0000	1/1
XT6 **NEW**	3	W - RHD	350	1	PHCX6315*	1STQ008039B0000	1/1
XT7 **NEW**	3	F	300	1	PHGT7329	1STQ006175B0000	1/1
XT7 **NEW**	3	F - I	300	1	PHGT7329	1STQ006175B0000	1/1
XT7 **NEW**	3	F - I-MO	300	1	PHGT7329	1STQ006175B0000	1/1
XT7 **NEW**	3	F - MO	300	1	PHGT7329	1STQ006175B0000	1/1
XT7 **NEW**	3	F - RHD	300	1	PHGT7329	1STQ006175B0000	1/1
XT7 **NEW**	3/4	F	350	1	PHGT7420	1STQ006177B0000	1/1
XT7 **NEW**	3/4	F - MO	350	1	PHGT7420	1STQ006177B0000	1/1
XT7 **NEW**	3/4	F - RHD	350	1	PHGT7420	1STQ006177B0000	1/1
XT7 **NEW**	3/4	F - I	500	1	PHGT7418	1STQ006179B0000	1/1
XT7 **NEW**	3/4	F - I-MO	500	1	PHGT7418	1STQ006179B0000	1/1
XT7 **NEW**	3/4	W	500	1	PHGT7430 *	1STQ006183B0000	1/1
XT7 **NEW**	3/4	W - I	500	1	PHGT7430 *	1STQ006183B0000	1/1
XT7 **NEW**	3/4	W - I-MO	500	1	PHCE1240 *	1STQ008164A0000	1/1
XT7 **NEW**	3/4	W - MO	500	1	PHCE1240 *	1STQ008164A0000	1/1
XT7 **NEW**	3/4	W - RHD	500	1	PHGT7430 *	1STQ006183B0000	1/1
T4	3	F	150	1	PHCT4301	1STQ007844A0000	1/1
T4	3/4	F	200	1	PHCT4406	1STQ007846A0000	1/1
T4	3/4	F - MO	200	1	PHCT4404 (1)	1STQ007848A0000	1/1
T4	3/4	F - RHD	200	1	PHCT4406	1STQ007846A0000	1/1
T4	3/4	F - I	600	2	PHCT4402	1STQ008446A0000	1/1
T4	3/4	F - I-MO	600	2	PHCT4403 (1)	1STQ008447A0000	1/1
T4	4	F - RC	200	1	PHCT4423	1STQ007849A0000	1/1
T5	3	F 400A/630A	200	1	PHCT5306	1STQ007851A0000	1/1
T5	3	F - MO 400A/630A	200	1	PHCT5304 (1)	1STQ007853A0000	1/1

* Only rear terminals

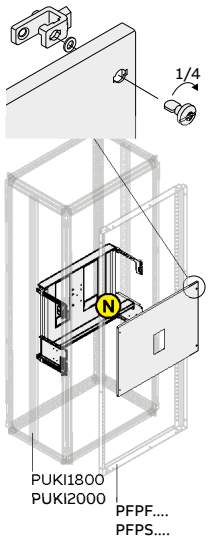
(1) Kit with recessed mounting plate. Only rear terminals.

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits

Tmax T7 W



Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
24 DIN modules - W=600mm							
T5	3	F - RHD 400A/630A	200	1	PHCT5306	1STQ007851A0000	1/1
T5	3	P 400A	200	1	PHCT5326	1STQ007855A0000	1/1
T5	3/4	P 630A	250	1	PHCT5407	1STQ002113B0000	1/1
T5	3	P - MO 400A	200	1	PHCT5309 (1)	1STQ008428A0000	1/1
T5	3	P - RHD 400A	200	1	PHCT5326	1STQ007855A0000	1/1
T5	3	W 400A	300	1	PHCT5314	1STQ007863A0000	1/1
T5	3	W - MO 400A	300	1	PHCT5312 (1)	1STQ008430A0000	1/1
T5	3/4	P - MO 630A	250	1	PHCT5427 (1)	1STQ002114A0000	1/1
T5	3	W - RHD 400A	300	1	PHCT5314	1STQ007863A0000	1/1
T5	3/4	F 400A/630A	250	1	PHCT5406	1STQ007857A0000	1/1
T5	3/4	F - MO 400A/630A	250	1	PHCT5404 (1)	1STQ007859A0000	1/1
T5	3/4	F - RHD 400A/630A	250	1	PHCT5406	1STQ007857A0000	1/1
T5	3/4	P 400A	250	1	PHCT5426	1STQ007861A0000	1/1
T5	3/4	P - MO 400A	250	1	PHCT5409 (1)	1STQ008429A0000	1/1
T5	3/4	P - RHD 400A	250	1	PHCT5426	1STQ007861A0000	1/1
T5	3/4	W 400A	350	1	PHCT5414	1STQ007865A0000	1/1
T5	3/4	W - MO 400A	350	1	PHCT5412 (1)	1STQ008431A0000	1/1
T5	3/4	W - RHD 400A	350	1	PHCT5414	1STQ007865A0000	1/1
T5 **NEW**	3/4	W-630A	350	1	PHCT5416	1STQ006247B0000	1/1
T5	3/4	F - I 400A/630A	600	2	PHCT5402	1STQ007868A0000	1/1
T5	3/4	F - I-MO 400A/630A	600	2	PHCT5403 (1)	1STQ008448A0000	1/1
T5	3/4	P - I 400/630A	600	2	PHCT5431 (1)	1STQ008449A0000	1/1
T5	3/4	P - I-MO 400/630A	600	2	PHCT5432 (1)	1STQ008450A0000	1/1
T5	3/4	W - I 400/630A	600	2	PHCT5425 (1)	1STQ008451A0000	1/1
T5	3/4	W - I-MO 400/630A	600	2	PHCT5411 (1)	1STQ008452A0000	1/1
T5	4	F - RC	250	1	PHCT5423	1STQ007866A0000	1/1
T6	3	F	300	1	PHCT6301**	1STQ007877A0000	1/1
T6	3	F - MO	300	1	PHCT6304 (1) **	1STQ007879A0000	1/1

Attention: for interlocked circuit breakers kits the interlocking plate is not included.
(1) Kit with recessed mounting plate. Only rear terminals.
** T6 1000A front terminals in width 800mm.
■ Front terminals, only Form 1.

To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/21. For fixed and withdrawable 3P breakers Tmax XT, non accessorized and mounted on 3/4P kit, it is necessary to order the dedicated cover flanges: AD3305 flange for XT1 3P mounted on plate, AD3306 flange for XT2 3P mounted on plate, AD3307 flange for XT3 3P mounted on plate, AD3308 flange for XT4 3P mounted on plate. With interlocked or interlocked motor-operated kits, it is necessary to order the quantity of flanges equal to the quantity of breakers.

Compatible residual current devices:
Tmax XT
RC Inst XT1-XT3, RC Sel. XT1-XT3 and RC Sel.. XT2-XT4 Type A. For XT1-XT3 fixed with residual current device high terminal covers are not available.
Tmax T
RC222 for T4 and T5.

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motoroperated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits

Kits for installation of Tmax circuit-breakers

HORIZONTAL INSTALLATION (front or rear connections)

The kit includes the dedicated fixing brackets, the mounting plate and panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.

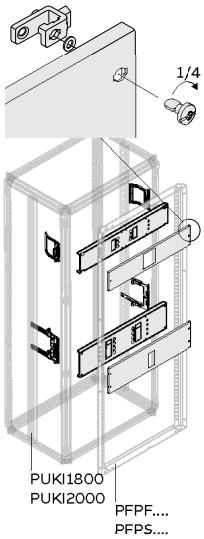
Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
24 DIN modules - W=600mm							
T6	3	F - RHD	300	1	PHCT6305**	1STQ007881A0000	1/1
T6	3	W	350	1	PHCT6314 ■	1STQ007891A0000	1/1
T6	3	W - MO	350	1	PHCT6312 (1) ■	1STQ007889A0000	1/1
T6	3	W - RHD	350	1	PHCT6314 ■	1STQ007891A0000	1/1
T6	3/4	F	350	1	PHCT6401**	1STQ007883A0000	1/1
T6	3/4	F - MO	350	1	PHCT6404 (1)	1STQ007885A0000	1/1
T6	3/4	F - RHD	350	1	PHCT6405	1STQ007887A0000	1/1
T6	3/4	W	500	1	PHCT6410 ■	1STQ007893A0000	1/1
T6	3/4	W - MO	500	1	PHCT6412 (1) ■	1STQ007894A0000	1/1
T6 **NEW**	3/4	W - RHD	500	1	PHCT6400 ■	1STQ007896A0000	1/1
T6	3/4	F - I	700	2	PHCT6402	1STQ008453A0000	1/1
T6	3/4	F - I-MO	700	2	PHCT6403 (1)	1STQ008454A0000	1/1
T6	3/4	W - I	700	2	PHCT6425 (1) ■	1STQ008455A0000	1/1
T6	3/4	W - I-MO	700	2	PHCT6411 (1)	1STQ008456A0000	1/1
T7	3	F	300	1	PHCT7329	1STQ007898A0000	1/1
T7	3	F - I	300	1	PHCT7329	1STQ007898A0000	1/1
T7	3	F - I-MO	300	1	PHCT7329	1STQ007898A0000	1/1
T7	3	F - MO	300	1	PHCT7329	1STQ007898A0000	1/1
T7	3	F - RHD	300	1	PHCT7329	1STQ007898A0000	1/1
T7	3/4	F	350	1	PHCT7420	1STQ007899A0000	1/1
T7	3/4	F - MO	350	1	PHCT7420	1STQ007899A0000	1/1
T7	3/4	F - RHD	350	1	PHCT7420	1STQ007899A0000	1/1
T7	3/4	F - I	400	1	PHCT7418	1STQ007900A0000	1/1
T7	3/4	F - I-MO	400	1	PHCT7418	1STQ007900A0000	1/1
T7	3/4	W	500	1	PHCT7430 *	1STQ007902A0000	1/1
T7	3/4	W - I	500	1	PHCT7430 *	1STQ007902A0000	1/1
T7	3/4	W - I-MO	500	1	PHCT7430 *	1STQ007902A0000	1/1
T7	3/4	W - MO	500	1	PHCT7430 *	1STQ007902A0000	1/1
T7	3/4	W - RHD	500	1	PHCT7430 *	1STQ007902A0000	1/1

(1) Kit with recessed mounting plate. Only rear terminals.
* Only rear terminals
■ Front terminals, only Form 1

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits



Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
36 DIN modules - W=800mm							
XT1	3/4	F	150	1	PHDX1301	1STQ002098B0000	1/1
XT1	3/4	F	200	1	PHDX1401	1STQ002097B0000	1/1
XT1	3/4	F - MO	200	1	PHDX1404	1STQ002427B0000	1/1
XT1	4	F - RC	200	1	PHDX1423	1STQ001472B0000	1/1
XT1	3/4	F - RHD	200	1	PHDX1105	1STQ002426B0000	1/1
XT1	3/4	P	200	1	PHDX1407	1STQ002428B0000	1/1
XT1	3/4	P - MO	200	1	PHDX1409 (1)	1STQ002430B0000	1/1
XT1	3/4	P - RHD	200	1	PHDX1427	1STQ002429B0000	1/1
XT1	3/4	P - I	500	2	PHDX1422	1STQ002432B0000	1/1
XT1	3/4	P - I - MO	500	2	PHDX1403 (1)	1STQ002431B0000	1/1
XT1	3/4	F - I	500	2	PHDX1422	1STQ002125B0000	1/1
XT1	3/4	F - I - MO	500	2	PHDX1403 (1)	1STQ002126B0000	1/1
XT2	3/4	F	200	1	PHDX2401	1STQ001444B0000	1/1
XT2	3/4	P	200	1	PHDX2407	1STQ002099B0000	1/1
XT2	3/4	F - MO	200	1	PHDX2404	1STQ001445B0000	1/1
XT2	4	F - RC	200	1	PHDX2423	1STQ001446B0000	1/1
XT2	3/4	F - RHD	200	1	PHDX2405	1STQ002433B0000	1/1
XT2	3/4	P - RHD	200	1	PHDX2427	1STQ002434B0000	1/1
XT2	4	P - RC	250	1	PHDX2428	1STQ001464B0000	1/1
XT2	3/4	P - MO	200	1	PHDX2409 (1)	1STQ002100B0000	1/1
XT2	3/4	W	250	1	PHDX2410	1STQ002435B0000	1/1
XT2	3/4	W - RHD	250	1	PHDX2400	1STQ002436B0000	1/1
XT2	3/4	W - RC	250	1	PHDX2417	1STQ002437B0000	1/1
XT2	3/4	W - MO	250	1	PHDX2412 (1)	1STQ002438B0000	1/1
XT2	3/4	W - I - MO	500	2	PHDX2425 (1)	1STQ002439B0000	1/1
XT2	3/4	F - I	500	2	PHDX2402	1STQ002127B0000	1/1
XT2	3/4	F - I - MO	500	2	PHDX2403 (1)	1STQ002128B0000	1/1
XT2	3/4	P - I	500	2	PHDX2432 (1)	1STQ002129B0000	1/1

Attention: for interlocked circuit breakers kits the interlocking plate is not included.

(1) kit with recessed mounting plate. Only rear terminals,
■ Front terminals, only Form 1

To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/21. For fixed and withdrawable 3P breakers Tmax XT, non accessorized and mounted on 3/4P kit, it is necessary to order the dedicated cover flanges: AD3305 flange for XT1 3P mounted on plate, AD3306 flange for XT2 3P mounted on plate, AD3307 flange for XT3 3P mounted on plate, AD3308 flange for XT4 3P mounted on plate. With interlocked or interlocked motor-operated kits, it is necessary to order the quantity of flanges equal to the quantity of breakers.

Compatible residual current devices:
Tmax XT
RC Inst XT1-XT3, RC Sel. XT1-XT3 and RC Sel.. XT2-XT4 Type A. For XT1-XT3 fixed with residual current device high terminal covers are not available.
Tmax T
RC222 for T4 and T5.

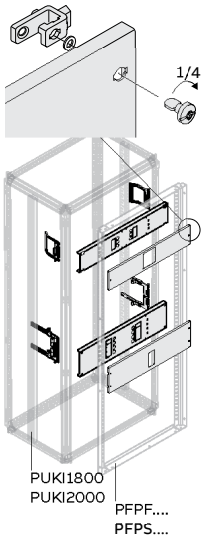
Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motoroperated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits



Kits for installation of Tmax circuit-breakers

HORIZONTAL INSTALLATION (front or rear connections)

The kit includes the dedicated fixing brackets, the mounting plate and panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.
The kit for T7 W can only be assembled in one direction, with neutral at the bottom.

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
36 DIN modules - W=800mm							
XT3	3/4	F	200	1	PHDX3401	1STQ002101B0000	1/1
XT3	3/4	F - MO	200	1	PHDX3404	1STQ002441B0000	1/1
XT3	3/4	F - RHD	200	1	PHDX3405	1STQ002440B0000	1/1
XT3	3/4	P	200	1	PHDX3407	1STQ002106B0000	1/1
XT3	3/4	P - RHD	200	1	PHDX3427	1STQ002442B0000	1/1
XT3	3/4	P - MO	200	1	PHDX3409	1STQ002443B0000	1/1
XT3	3/4	F - I	500	2	PHDX3402	1STQ002102B0000	1/1
XT3	3/4	F - I - MO	500	2	PHDX3403 (1)	1STQ002104B0000	1/1
XT3	4	F - RC	250	1	PHDX3423	1STQ001473B0000	1/1
XT4	3/4	F	200	1	PHDX4401	1STQ001447B0000	1/1
XT4	3/4	F - RHD	200	1	PHDX4405	1STQ002131B0000	1/1
XT4	3/4	F - MO	200	1	PHDX4404	1STQ001448B0000	1/1
XT4	4	F - RC	200	1	PHDX4423	1STQ001449B0000	1/1
XT4	3/4	P	200	1	PHDX4407	1STQ002110B0000	1/1
XT4	3/4	P - RHD	200	1	PHDX4427	1STQ002444B0000	1/1
XT4	4	P - RC	250	1	PHDX4428	1STQ001451B0000	1/1
XT4	3/4	P-MO	200	2	PHDX4409 (1)	1STQ002111B0000	1/1
XT4	3/4	W	250	1	PHDX4410	1STQ002445B0000	1/1
XT4	3/4	W - RHD	250	1	PHDX4400	1STQ002446B0000	1/1
XT4	3/4	W - RC	250	1	PHDX4417	1STQ002447B0000	1/1
XT4	3/4	W - MO	250	1	PHDX4412 (1)	1STQ002448B0000	1/1
XT4	3/4	W - I - MO	500	2	PHDX4425 (1)	1STQ002449B0000	1/1
XT4	3/4	F - I	500	2	PHDX4402	1STQ002107B0000	1/1
XT4	3/4	F - I - MO	500	2	PHDX4403 (1)	1STQ002108B0000	1/1
XT4	3/4	P - I	500	2	PHDX4422 (1)	1STQ002112B0000	1/1
XT5 **NEW**	3	F - RHD 400/630A	200	1	PHDX5306	1STQ007073B0000	1/1
XT5 **NEW**	3	F - 400/630A	200	1	PHDX5320	1STQ007626B0000	1/1
XT5 **NEW**	3/4	F - RHD 400/630A	250	1	PHDX5406	1STQ007076B0000	1/1
XT5 **NEW**	3/4	F - 400/630A	250	1	PHDX5420	1STQ007628B0000	1/1
XT5 **NEW**	4	F - RC 400A	250	1	PHDX5423	1STQ007078B0000	1/1
XT5 **NEW**	3	F - MO 400/630A	200	1	PHDX5304 (1)	1STQ007081B0000	1/1
XT5 **NEW**	3/4	F - MO 400/630A	250	1	PHDX5404 (1)	1STQ007084B0000	1/1
XT5 **NEW**	3	P - RHD 400A	200	1	PHDX5326	1STQ007089B0000	1/1
XT5 **NEW**	3	P - 400A	200	1	PHDX5307	1STQ007627B0000	1/1
XT5 **NEW**	3/4	P - RHD 400A	250	1	PHDX5426	1STQ007092B0000	1/1
XT5 **NEW**	3/4	P - 400A	250	1	PHDX5429	1STQ007630B0000	1/1
XT5 **NEW**	3/4	P - 630A	250	1	PHDX5407	1STQ007095B0000	1/1
XT5 **NEW**	3	P - MO 400A	200	1	PHDX5309 (1)	1STQ007098B0000	1/1
XT5 **NEW**	3/4	P - MO 400A	250	1	PHDX5409 (1)	1STQ007101B0000	1/1
XT5 **NEW**	3/4	P- MO 630A	250	1	PHDX5428 (1)	1STQ007103B0000	1/1
XT5 **NEW**	3/4	P - I 400/630A	600	2	PHDX5431 (1)	1STQ007105B0000	1/1

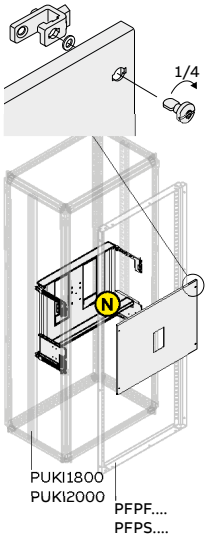
(1) Kit with recessed mounting plate. Only rear terminals.
* Only rear terminals
■ Front terminals, only Form 1

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits

Tmax T7 W



Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
36 DIN modules - W=800mm							
XT5 NEW	3/4	P - I - MO 400/630A	600	2	PHDX5432 (1)	1STQ007107B0000	1/1
XT5 NEW	3	W - RHD 400A	300	1	PHDX5314	1STQ007110B0000	1/1
XT5 NEW	3/4	W - RHD 400A	350	1	PHDX5414	1STQ007113B0000	1/1
XT5 NEW	3	W - MO 400A	300	1	PHDX5312 (1)	1STQ007117B0000	1/1
XT5 NEW	3/4	W - MO 400A	350	1	PHDX5412 (1)	1STQ007120B0000	1/1
XT5 NEW	3/4	W - I 400/630A	600	2	PHDX5425 (1)	1STQ007122B0000	1/1
XT5 NEW	3/4	W - I - MO 400/630A	600	2	PHDX5411 (1)	1STQ007124B0000	1/1
XT6 NEW	3	F	300	1	PHDX6301	1STQ007925B0000	1/1
XT6 NEW	3	F - MO	300	1	PHDX6304 (1)	1STQ007927B0000	1/1
XT6 NEW	3	F - RHD	300	1	PHDX6305	1STQ007929B0000	1/1
XT6 NEW	3/4	F	350	1	PHDX6401	1STQ007930B0000	1/1
XT6 NEW	3/4	F - MO	350	1	PHDX6404 (1)	1STQ007932B0000	1/1
XT6 NEW	3/4	F - RHD	350	1	PHDX6405	1STQ007934B0000	1/1
XT6 NEW	3	W - MO	350	1	PHDX6312 (1)	1STQ007936B0000	1/1
XT6 NEW	3	W	350	1	PHDX6314*	1STQ007938B0000	1/1
XT6 NEW	3/4	W - MO	500	1	PHDX6412 (1)	1STQ007941B0000	1/1
XT6 NEW	3/4	W	500	1	PHDX6414*	1STQ007943B0000	1/1
XT6 NEW	3/4	F - I	700	2	PHDX6402	1STQ007966B0000	1/1
XT6 NEW	3/4	F - I - MO	700	2	PHDX6403 (1)	1STQ007967B0000	1/1
XT6 NEW	3	W - RHD	350	1	PHDX6315*	1STQ008040B0000	1/1
XT6 NEW	3/4	W - RHD	500	1	PHDX6415*	1STQ008041B0000	1/1
XT7 NEW	3	F	300	1	PHIT7329	1STQ006176B0000	1/1
XT7 NEW	3	F - I	300	1	PHIT7329	1STQ006176B0000	1/1
XT7 NEW	3	F - I-MO	300	1	PHIT7329	1STQ006176B0000	1/1
XT7 NEW	3	F - MO	300	1	PHIT7329	1STQ006176B0000	1/1
XT7 NEW	3	F - RHD	300	1	PHIT7329	1STQ006176B0000	1/1
XT7 NEW	3/4	F	350	1	PHIT7420	1STQ006178B0000	1/1
XT7 NEW	3/4	F - MO	350	1	PHIT7420	1STQ006178B0000	1/1
XT7 NEW	3/4	F - RHD	350	1	PHIT7420	1STQ006178B0000	1/1
XT7 NEW	3/4	F - I	500	1	PHIT7418	1STQ006180B0000	1/1

Attention: for interlocked circuit breakers kits the interlocking plate is not included.

(1) Kit with recessed mounting plate. Only rear terminals.
* Only rear terminals
■ Front terminals, only Form 1, High terminals covers not available.

To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/21. For fixed and withdrawable 3P breakers Tmax XT, non accessorized and mounted on 3/4P kit, it is necessary to order the dedicated cover flanges: AD3305 flange for XT1 3P mounted on plate, AD3306 flange for XT2 3P mounted on plate, AD3307 flange for XT3 3P mounted on plate, AD3308 flange for XT4 3P mounted on plate. With interlocked or interlocked motor-operated kits, it is necessary to order the quantity of flanges equal to the quantity of breakers.

Compatible residual current devices:
Tmax XT
RC Inst XT1-XT3, RC Sel. XT1-XT3 and RC Sel.. XT2-XT4 Type A. For XT1-XT3 fixed with residual current device high terminal covers are not available.
Tmax T
RC222 for T4 and T5.

Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motoroperated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits

Kits for installation of Tmax circuit-breakers

HORIZONTAL INSTALLATION (front or rear connections)

The kit includes the dedicated fixing brackets, the mounting plate and panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.
The kit for T7 W can only be assembled in one direction, with neutral at the bottom.

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
36 DIN modules - W=800mm							
XT7 **NEW**	3/4	F - I-MO	500	1	PHIT7418	1STQ006180B0000	1/1
XT7 **NEW**	3/4	W	500	1	PHIT7430 *	1STQ006184B0000	1/1
XT7 **NEW**	3/4	W - I	500	1	PHIT7430 *	1STQ006184B0000	1/1
XT7 **NEW**	3/4	W - I-MO	500	1	PHDE1240 *	1STQ008386A0000	1/1
XT7 **NEW**	3/4	W - MO	500	1	PHDE1240 *	1STQ008386A0000	1/1
XT7 **NEW**	3/4	W - RHD	500	1	PHIT7430 *	1STQ006184B0000	1/1
T4	3/4	F - I	600	2	PHDT4402	1STQ008463A0000	1/1
T4	3/4	F - I-MO	600	2	PHDT4403 (1)	1STQ008464A0000	1/1
T5	3	F 400A/630A	200	1	PHDT5306	1STQ007869A0000	1/1
T5	3	F - MO 400A/630A	200	1	PHDT5304 (1)	1STQ007870A0000	1/1
T5	3	F - RHD 400A/630A	200	1	PHDT5306	1STQ007869A0000	1/1
T5	3P	P - MO 400A	200	1	PHDT5309 (1)	1STQ008457A0000	1/1
T5	3	P 400A	200	1	PHDT5326	1STQ007871A0000	1/1
T5	3P	P - MO 400A	200	1	PHDT5309 (1)	1STQ008457A0000	1/1
T5	3	P - RHD 400A	200	1	PHDT5326	1STQ007871A0000	1/1
T5	3	W 400A	300	1	PHDT5314	1STQ007875A0000	1/1
T5	3P	W - MO 400A	300	1	PHDT5312 (1)	1STQ008459A0000	1/1
T5	3	W - RHD 400A	300	1	PHDT5314	1STQ007875A0000	1/1
T5	3/4	F 400A/630A	250	1	PHDT5406	1STQ007872A0000	1/1
T5	3/4	F - MO 400A/630A	250	1	PHDT5404 (1)	1STQ007873A0000	1/1
T5	3/4	F - RHD 400A/630A	250	1	PHDT5406	1STQ007872A0000	1/1
T5	3/4	P 400A	250	1	PHDT5426	1STQ007874A0000	1/1
T5	3/4	P 630A	250	1	PHDT5407	1STQ002115B0000	1/1
T5	3/4	P - MO 400A	250	1	PHDT5409 (1)	1STQ008458A0000	1/1
T5	3/4	P - MO 630A	250	1	PHDT5428 (1)	1STQ002116B0000	1/1
T5	3/4	P - RHD 400A	250	1	PHDT5426	1STQ007874A0000	1/1
T5	3/4	W 400A	350	1	PHDT5414	1STQ007876A0000	1/1
T5	3/4	W - MO 400A	350	1	PHDT5412 (1)	1STQ008460A0000	1/1
T5	3/4	W - RHD 400A	350	1	PHDT5414	1STQ007876A0000	1/1
T5	3/4	W - I 400/630A	600	2	PHDT5425 (1)	1STQ008461A0000	1/1
T5	3/4	W - I - MO 400/630A	600	2	PHDT5411 (1)	1STQ008462A0000	1/1
T5	3/4	P - I 400/630A	600	2	PHDT5431 (1)	1STQ002119B0000	1/1
T5	3/4	P - I - MO 400/630A	600	2	PHDT5432 (1)	1STQ002120B0000	1/1
T5	4	F - RC 400A	250	1	PHDT5423	1STQ007867A0000	1/1
T5	4	F - RC	250	1	PHDT5423	1STQ007867A0000	1/1
T6	3	F	300	1	PHDT6301	1STQ007878A0000	1/1
T6	3	F - MO	300	1	PHDT6304 (1)	1STQ007880A0000	1/1
T6	3	F - RHD	300	1	PHDT6305	1STQ007882A0000	1/1
T6	3	W	350	1	PHDT6314 ■	1STQ007892A0000	1/1
T6	3	W - MO	350	1	PHDT6312 (1) ■	1STQ007890A0000	1/1
T6	3	W - RHD	350	1	PHDT6314 ■	1STQ007892A0000	1/1
T6	3/4	F	350	1	PHDT6401	1STQ007884A0000	1/1
T6	3/4	F - MO	350	1	PHDT6404 (1)	1STQ007886A0000	1/1
T6	3/4	F - RHD	350	1	PHDT6405	1STQ007888A0000	1/1
T6	3/4	W	500	1	PHDT6414 ■	1STQ007897A0000	1/1
T6	3/4	W - MO	500	1	PHDT6412 (1) ■	1STQ007895A0000	1/1

* Only rear terminals
■ Front terminals, only Form 1, High terminals covers not available.
(1) Kit with recessed mounting plate. Only rear terminals.

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
36 DIN modules - W=800mm							
T6	3/4	W - RHD	500	1	PHDT6414 ■	1STQ007897A0000	1/1
T6	3/4	F - I	700	2	PHDT6402	1STQ002121B0000	1/1
T6	3/4	F - I - MO	700	2	PHDT6403 (1)	1STQ002122B0000	1/1
T7	3	F	300	1	PHDT7329	1STQ007903A0000	1/1
T7	3	F - I	300	1	PHDT7329	1STQ007903A0000	1/1
T7	3	F - I-MO	300	1	PHDT7329	1STQ007903A0000	1/1
T7	3	F - MO	300	1	PHDT7329	1STQ007903A0000	1/1
T7	3	F - RHD	300	1	PHDT7329	1STQ007903A0000	1/1
T7	3/4	F	350	1	PHDT7420	1STQ007904A0000	1/1
T7	3/4	F - MO	350	1	PHDT7420	1STQ007904A0000	1/1
T7	3/4	F - RHD	350	1	PHDT7420	1STQ007904A0000	1/1
T7	3/4	F - I	400	1	PHDT7418	1STQ007905A0000	1/1
T7	3/4	F - I-MO	400	1	PHDT7418	1STQ007905A0000	1/1
T7	3/4	W	500	1	PHDT7430 *	1STQ007907A0000	1/1
T7	3/4	W - I	500	1	PHDT7430 *	1STQ007907A0000	1/1
T7	3/4	W - I-MO	500	1	PHDT7430 *	1STQ007907A0000	1/1
T7	3/4	W - MO	500	1	PHDT7430 *	1STQ007907A0000	1/1
T7	3/4	W - RHD	500	1	PHDT7430 *	1STQ007907A0000	1/1

Attention: for interlocked circuit breakers kits the interlocking plate is not included.

* Only rear terminals
■ Front terminals, only Form 1, High terminals covers not available.
(1) Kit with recessed mounting plate. Only rear terminals.

To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/21. For fixed and withdrawable 3P breakers Tmax XT, non accessorized and mounted on 3/4P kit, it is necessary to order the dedicated cover flanges: AD3305 flange for XT1 3P mounted on plate, AD3306 flange for XT2 3P mounted on plate, AD3307 flange for XT3 3P mounted on plate, AD3308 flange for XT4 3P mounted on plate. With interlocked or interlocked motor-operated kits, it is necessary to order the quantity of flanges equal to the quantity of breakers.

Compatible residual current devices:
Tmax XT
RC Inst XT1-XT3, RC Sel. XT1-XT3 and RC Sel.. XT2-XT4 Type A. For XT1-XT3 fixed with residual current device high terminal covers are not available.
Tmax T
RC222 for T4 and T5.

Key:

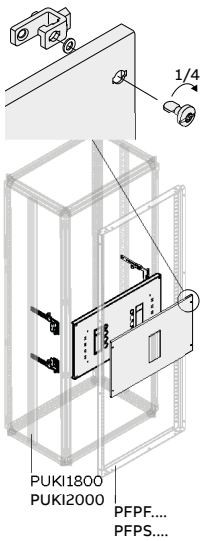
F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motoroperated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits

Emax E1.2 F



Kit per installazione interruttori Emax 2

HORIZONTAL INSTALLATION (attacchi Front o Rear)

The kit includes the dedicated fixing brackets, the mounting plate and panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.
The kit for E1.2 W can only be assembled in one direction, with neutral at the bottom.

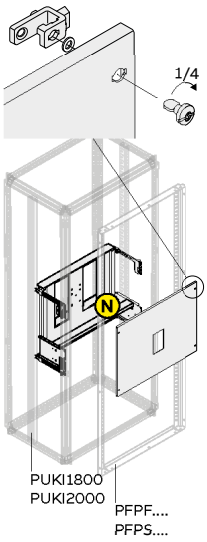
Tmax	N. poli	Versione	Dimensioni H (mm)	N° interr. per cella	Tipo	Codice d'ordine	Conf./ N°pezzi
24 moduli DIN - W=600mm							
E1.2	3/4	F	400	1	PHCE1241	1STQ008151A0000	1/1
E1.2	3/4	F - I	400	1	PHCE1241	1STQ008151A0000	1/1
E1.2	3/4	W	500	1	PHCE1240 *	1STQ008164A0000	1/1
E1.2	3/4	W - I	500	1	PHCE1240 *	1STQ008164A0000	1/1
36 moduli DIN - W=800mm							
E1.2	3/4	F	400	1	PHDE1241	1STQ008150A0000	1/1
E1.2	3/4	F - I	400	1	PHDE1241	1STQ008150A0000	1/1
E1.2	3/4	W	500	1	PHDE1240 *	1STQ008386A0000	1/1
E1.2	3/4	W - I	500	1	PHDE1240 *	1STQ008386A0000	1/1

Attention: for interlocked circuit breakers kits the interlocking plate is not included.

* Only rear terminals

To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels.

Emax E1.2 W

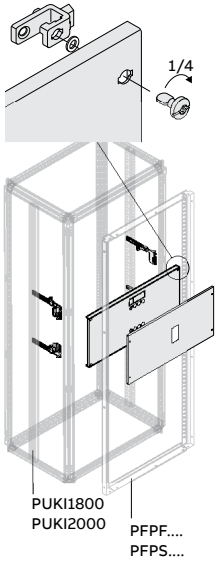


To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/21. For fixed and withdrawable 3P breakers Tmax XT, non accessorized and mounted on 3/4P kit, it is necessary to order the dedicated cover flanges: AD3305 flange for XT1 3P mounted on plate, AD3306 flange for XT2 3P mounted on plate, AD3307 flange for XT3 3P mounted on plate, AD3308 flange for XT4 3P mounted on plate. With interlocked or interlocked motor-operated kits, it is necessary to order the quantity of flanges equal to the quantity of breakers.

Compatible residual current devices:
Tmax XT
RC Inst XT1-XT3, RC Sel. XT1-XT3 and RC Sel.. XT2-XT4 Type A. For XT1-XT3 fixed with residual current device high terminal covers are not available.
Tmax T
RC222 for T4 and T5.

Internal kits

Order codes - Internal kits



Kits for installation of Tmax circuit-breakers

VERTICAL INSTALLATION (front or rear connections

The kit includes the dedicated fixing brackets, the mounting plate and panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
12 DIN modules - W=400mm							
XT1	3/4	F	300	1	PVBX1401	1STQ007908A0000	1/1
XT1	3/4	F - MO	300	1	PVBX1404	1STQ008465A0000	1/1
XT1	3/4	F - RHD	300	1	PVBX1405	1STQ007912A0000	1/1
XT1	3/4	P	300	1	PVBX1407	1STQ007914A0000	1/1
XT1	3/4	P - MO	300	1	PVBX1409 (1)	1STQ007916A0000	1/1
XT1	3/4	P - RHD	300	1	PVBX1427	1STQ007918A0000	1/1
XT1	4	F - RC	300	1	PVBX1423	1STQ007910A0000	1/1
XT1	3/4	F - MO	300	1	PVBX1404	1STQ008465A0000	1/1
XT2	3/4	F - MO	300	1	PVBX2404	1STQ008466A0000	1/1
XT2	3/4	F	300	1	PVBX2401	1STQ007921A0000	1/1
XT2	3/4	F - RHD	300	1	PVBX2405	1STQ007925A0000	1/1
XT2	3/4	P	300	1	PVBX2407	1STQ007927A0000	1/1
XT2	3/4	P - MO	300	1	PVBX2409 (1)	1STQ007931A0000	1/1
XT2	3/4	P - RHD	300	1	PVBX2427	1STQ007933A0000	1/1
XT2	3/4	W	300	1	PVBX2410	1STQ007935A0000	1/1
XT2	3/4	W - MO	300	1	PVBX2412 (1)	1STQ007937A0000	1/1
XT2	3/4	W - RHD	300	1	PVBX2400	1STQ007939A0000	1/1
XT2	4	F - RC	350	1	PVBX2423	1STQ007941A0000	1/1
XT2	4	W - RC	350	1	PVBX2417	1STQ007943A0000	1/1
XT3	3/4	F	300	1	PVBX3401	1STQ007945A0000	1/1
XT3	3/4	F - MO	300	1	PVBX3404	1STQ008467A0000	1/1
XT3	3/4	F - RHD	300	1	PVBX3405	1STQ007947A0000	1/1
XT3	3/4	P	300	1	PVBX3407	1STQ007949A0000	1/1
XT3	3/4	P - MO	300	1	PVBX3409 (1)	1STQ007952A0000	1/1
XT3	3/4	P - RHD	300	1	PVBX3427	1STQ007954A0000	1/1
XT3	4	F - RC	400	1	PVBX3423	1STQ007956A0000	1/1
XT4	3/4	F	300	1	PVBX4401	1STQ007960A0000	1/1

(1) Kit with recessed plate. Only rear terminals.

To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/21. For fixed and withdrawable 3P breakers Tmax XT, non accessorized and mounted on 3/4P kit, it is necessary to order the dedicated cover flanges: AD3305 flange for XT1 3P mounted on plate, AD3306 flange for XT2 3P mounted on plate, AD3307 flange for XT3 3P mounted on plate, AD3308 flange for XT4 3P mounted on plate. With interlocked or interlocked motor-operated kits, it is necessary to order the quantity of flanges equal to the quantity of breakers.

Compatible residual current devices:
Tmax XT
RC Inst XT1-XT3, RC Sel. XT1-XT3 and RC Sel.. XT2-XT4 Type A. For XT1-XT3 fixed with residual current device high terminal covers are not available.
Tmax T
RC222 for T4 and T5.

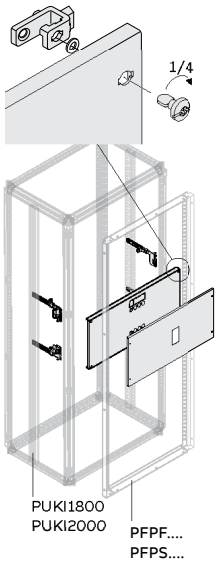
Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motoroperated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits



Kits for installation of Tmax circuit-breakers

VERTICAL INSTALLATION (front or rear connections

The kit includes the dedicated fixing brackets, the mounting plate and panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
12 DIN modules - W=400mm							
XT4	3/4	F - MO	300	1	PVBX4404	1STQ008468A0000	1/1
XT4	3/4	F - RHD	300	1	PVBX4405	1STQ007964A0000	1/1
XT4	3/4	P	350	1	PVBX4407	1STQ007966A0000	1/1
XT4	3/4	P - MO	350	1	PVBX4409 (3)	1STQ007970A0000	1/1
XT4	3/4	P - RHD	350	1	PVBX4427	1STQ007972A0000	1/1
XT4	3/4	W	350	1	PVBX4410	1STQ007974A0000	1/1
XT4	3/4	W - MO	350	1	PVBX4412 (3)	1STQ007976A0000	1/1
XT4	3/4	W - RHD	350	1	PVBX4400	1STQ007978A0000	1/1
XT4	4	F - RC	400	1	PVBX4423	1STQ007958A0000	1/1
XT4	4	W - RC	400	1	PVBX4417	1STQ007980A0000	1/1
XT5 **NEW**	3	W - 630A	450	1	PVBX5319 (1)	1STQ007125B0000	1/1
XT5 **NEW**	3/4	F - MO 400/630A	350	1	PVBX5404 (3)	1STQ007126B0000	1/1
XT5 **NEW**	3/4	F - RHD 400/630A	350	1	PVBX5406	1STQ007127B0000	1/1
XT5 **NEW**	3/4	F - 400/630A	350	1	PVBX5420	1STQ007607B0000	1/1
XT5 **NEW**	3/4	P - MO 630A	400	1	PVBX5409 (3)	1STQ007128B0000	1/1
XT5 **NEW**	3/4	W - MO 400A	350	1	PVBX5412 (3)	1STQ007129B0000	1/1
XT5 **NEW**	3/4	W - RHD 400A	350	1	PVBX5414	1STQ007130B0000	1/1
XT5 **NEW**	4	F - RC 400A	450	1	PVBX5423 (2)	1STQ007131B0000	1/1
XT5 **NEW**	3/4	P - RHD 400A	350	1	PVBX5426	1STQ007132B0000	1/1
XT5 **NEW**	3/4	P - 400A	350	1	PVBX5407	1STQ007608B0000	1/1
XT5 **NEW**	4	P - RC 400A	450	1	PVBX5428 (2)	1STQ007133B0000	1/1
XT7 **NEW**	3/4	F-MO	450	1	PVBE1241	1STQ008179A0000	1/1
XT7 **NEW**	3/4	F	450	1	PVBE1241 (4)	1STQ008179A0000	1/1
T4	3/4	F	350	1	PVBT4406	1STQ007982A0000	1/1
T4	3/4	F - MO	350	1	PVBT4404 (3)	1STQ007984A0000	1/1
T4	3/4	F - RHD	350	1	PVBT4406	1STQ007982A0000	1/1
T4	4	F - RC	450	1	PVBT4423	1STQ007986A0000	1/1
T5	3/4	F 400A/630A	350	1	PVBT5406	1STQ007988A0000	1/1
T5	3/4	F - MO 400A/630A	350	1	PVBT5404 (3)	1STQ007990A0000	1/1
T5	3/4	F - RHD 400A/630A	350	1	PVBT5406	1STQ007988A0000	1/1
T5	3/4	P 400A	350	1	PVBT5426	1STQ007992A0000	1/1
T5	3/4	P - MO 630A	400	1	PVBT5409 (2)(3)	1STQ002132B0000	1/1
T5	3/4	P - RHD 400A	350	1	PVBT5426	1STQ007992A0000	1/1
T5	3/4	W 400A	350	1	PVBT5414	1STQ007993A0000	1/1
T5	3/4	W - MO 400A	350	1	PVBT5412 (3)	1STQ007995A0000	1/1
T5	3/4	W - RHD 400A	350	1	PVBT5414	1STQ007993A0000	1/1
T5	4	F - RC 400A	450	1	PVBT5423	1STQ007998A0000	1/1
T5	4	P - RC 400A	450	1	PVBT5428	1STQ008001A0000	1/1
T5	3	W 630A	450	1	PVBT5319	1STQ001470B0000	1/1
T6	3	W	450	1	PVBT6314 ■	1STQ008024A0000	1/1
T6	3	W - MO	450	1	PVBT6312 (3) ■	1STQ008025A0000	1/1
T6	3	W - RHD	450	1	PVBT6314 ■	1STQ008024A0000	1/1
T6	3/4	F	400	1	PVBT6401	1STQ008015A0000	1/1
T6	3/4	F - MO	400	1	PVBT6404 (3)	1STQ008018A0000	1/1
T6	3/4	F - RHD	400	1	PVBT6405	1STQ008021A0000	1/1

■ Front terminals, only Form 1, high terminal covers not available.
(1) only front terminals not segregated
(2) compatible residual current devices: RC222 for XT5
(3) Kit with recessed mounting plate. Only rear terminals.
(4) Only for IP3X without door

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
24 DIN modules - W=600mm							
XT1	3/4	F	300	1	PVCX1401	1STQ007909A0000	1/1
XT1	3	F	300	3	PVCX1301	1STQ001885B0000	1/1
XT1	3/4	F - MO	300	1	PVCX1404	1STQ008469A0000	1/1
XT1	3/4	F - RHD	300	1	PVCX1405	1STQ007913A0000	1/1
XT1	3/4	P	300	1	PVCX1407	1STQ007915A0000	1/1
XT1	3/4	P	300	3	PVCX1707	1STQ009146A0000	1/1
XT1	3/4	P - MO	300	1	PVCX1409 (1)	1STQ007917A0000	1/1
XT1	3/4	P - RHD	300	1	PVCX1427	1STQ007919A0000	1/1
XT1	4	F - RC	300	1	PVCX1423	1STQ007911A0000	1/1
XT2	3/4	F	300	3	PVCX2701	1STQ007923A0000	1/1
XT2	3/4	F	300	1	PVCX2401	1STQ007922A0000	1/1
XT2	3/4	F - MO	300	1	PVCX2404	1STQ008470A0000	1/1
XT2	3/4	F - RHD	300	1	PVCX2405	1STQ007926A0000	1/1
XT2	3/4	P	300	3	PVCX2707	1STQ007929A0000	1/1
XT2	3/4	P	300	1	PVCX2407	1STQ007928A0000	1/1
XT2 **NEW**	3/4	P	300	2	PVCX2706	1STQ005638B0000	1/1
XT2	3/4	P - MO	300	1	PVCX2409 (1)	1STQ007932A0000	1/1
XT2	3/4	P - RHD	300	1	PVCX2427	1STQ007934A0000	1/1
XT2	3/4	W	300	1	PVCX2410	1STQ007936A0000	1/1
XT2	3/4	W - MO	300	1	PVCX2412 (1)	1STQ007938A0000	1/1
XT2	3/4	W - RHD	300	1	PVCX2400	1STQ007940A0000	1/1
XT2	4	F - RC	350	1	PVCX2423	1STQ007942A0000	1/1
XT2	4	W - RC	350	1	PVCX2417	1STQ007944A0000	1/1
XT3	3	P	300	3	PVCX3707	1STQ009149A0000	1/1
XT3	3/4	F	300	1	PVCX3401	1STQ007946A0000	1/1
XT3	3	F	300	3	PVCX3301	1STQ001886B0000	1/1
XT3	3/4	F - MO	300	1	PVCX3404	1STQ008471A0000	1/1
XT3	3/4	F - RHD	300	1	PVCX3405	1STQ007948A0000	1/1
XT3	3/4	P	300	1	PVCX3407	1STQ007950A0000	1/1
XT3	3/4	P	300	2	PVCX3607	1STQ009148A0000	1/1
XT3	3/4	P - MO	300	1	PVCX3409 (1)	1STQ007953A0000	1/1

(1) Kit with recessed mounting plate. Only rear terminals.

To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/21. For fixed and withdrawable 3P breakers Tmax XT, non accessorized and mounted on 3/4P kit, it is necessary to order the dedicated cover flanges: AD3305 flange for XT1 3P mounted on plate, AD3306 flange for XT2 3P mounted on plate, AD3307 flange for XT3 3P mounted on plate, AD3308 flange for XT4 3P mounted on plate. With interlocked or interlocked motor-operated kits, it is necessary to order the quantity of flanges equal to the quantity of breakers.

Compatible residual current devices:
Tmax XT
RC Inst XT1-XT3, RC Sel. XT1-XT3 and RC Sel.. XT2-XT4 Type A. For XT1-XT3 fixed with residual current device high terminal covers are not available.
Tmax T
RC222 for T4 and T5.

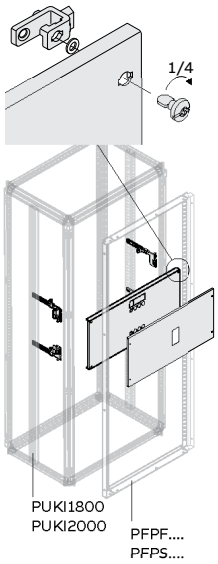
Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motoroperated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits



Kits for installation of Tmax circuit-breakers

VERTICAL INSTALLATION (front or rear connections

The kit includes the dedicated fixing brackets, the mounting plate and panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.
The kit for T7 W requires the neutral to be installed on the left.

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
24 DIN modules - W=600mm							
XT3	3/4	P - RHD	300	1	PVCX3427	1STQ007955A0000	1/1
XT3	4	F - RC	400	1	PVCX3423	1STQ007957A0000	1/1
XT4	3/4	F	300	1	PVCX4401	1STQ007961A0000	1/1
XT4	3/4	F	300	2	PVCX4601	1STQ009142A0000	1/1
XT4	3	F	300	3	PVCX4701	1STQ007962A0000	1/1
XT4	3/4	F - MO	300	1	PVCX4404	1STQ008472A0000	1/1
XT4	3/4	F - RHD	300	1	PVCX4405	1STQ007965A0000	1/1
XT4	3	P	350	3	PVCX4707	1STQ007968A0000	1/1
XT4	3/4	P	350	1	PVCX4407	1STQ007967A0000	1/1
XT4	3/4	P	350	2	PVCX4607	1STQ009144A0000	1/1
XT4	3/4	P - MO	350	1	PVCX4409 (1)	1STQ007971A0000	1/1
XT4	3/4	P - RHD	350	1	PVCX4427	1STQ007973A0000	1/1
XT4	3/4	W	350	1	PVCX4410	1STQ007975A0000	1/1
XT4	3/4	W - MO	350	1	PVCX4412 (2)	1STQ007977A0000	1/1
XT4	3/4	W - RHD	350	1	PVCX4400	1STQ007979A0000	1/1
XT4	4	F - RC	400	1	PVCX4423	1STQ007959A0000	1/1
XT4	4	W - RC	400	1	PVCX4417	1STQ007981A0000	1/1
XT5 **NEW**	3/4	F - MO 400/630A	350	1	PVCX5404 (3)	1STQ007134B0000	1/1
XT5 **NEW**	3/4	F - RHD 400/630A	350	1	PVCX5406	1STQ007135B0000	1/1
XT5 **NEW**	3/4	F - 400/630A	350	1	PVCX5420	1STQ007609B0000	1/1
XT5 **NEW**	3/4	P - RHD 630A	400	1	PVCX5407	1STQ007136B0000	1/1
XT5 **NEW**	3/4	P - 630A	400	1	PVCX5429	1STQ007610B0000	1/1
XT5 **NEW**	3/4	P - MO 630A	400	1	PVCX5409 (3)	1STQ007137B0000	1/1
XT5 **NEW**	3/4	W - MO 400A	350	1	PVCX5412 (3)	1STQ007138B0000	1/1
XT5 **NEW**	3/4	W - RHD 400A	350	1	PVCX5414	1STQ007139B0000	1/1
XT5 **NEW**	4	F - RC 400A	450	1	PVCX5423 (2)	1STQ007140B0000	1/1
XT5 **NEW**	3/4	P - RHD 400A	350	1	PVCX5426	1STQ007141B0000	1/1
XT5 **NEW**	3/4	P - 400A	350	1	PVCX5427	1STQ007611B0000	1/1
XT5 **NEW**	4	P - RC 400A	450	1	PVCX5428 (2)	1STQ007142B0000	1/1
XT5 **NEW**	3/4	W - MO 630A	400	1	PVCX5430 (3)	1STQ007143B0000	1/1
XT5 **NEW**	3	W - 630A	450	2	PVCX5601 (1)	1STQ007144B0000	1/1
XT5 **NEW**	3/4	F - 400/630A	350	2	PVCX5712 (1)	1STQ007146B0000	1/1
XT5 **NEW**	3	P - 630A	450	1	PVCX5307 (1)	1STQ007168B0000	1/1
XT5 **NEW**	3	P - RHD 630A	450	1	PVCX5326 (1)	1STQ007615B0000	1/1
XT6 **NEW**	3/4	F - MO	400	1	PVCX6404 (1)	1STQ007947B0000	1/1
XT6 **NEW**	3/4	F - RHD	400	1	PVCX6405	1STQ007950B0000	1/1
XT6 **NEW**	3/4	W	450	1	PVCX6414*	1STQ007954B0000	1/1
XT6 **NEW**	3/4	W - MO	450	1	PVCX6412 (3)	1STQ007956B0000	1/1
XT6 **NEW**	3/4	F	400	1	PVCX6401	1STQ007965B0000	1/1
XT6 **NEW**	3/4	W - RHD	450	1	PVCX6415*	1STQ008043B0000	1/1
XT7 **NEW**	3/4	F	450	1	PVGT7419	1STQ006181B0000	1/1

* Only rear terminals
■ Front terminals, only Form 1, high terminal covers not available.
(1) Only front terminals not segregated
(2) Compatible residual current devices: RC222 for XT5
(3) Kit with recessed mounting plate. Only rear terminals.

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
24 DIN modules - W=600mm							
XT7 NEW	3/4	F - I	450	1	PVGT7419	1STQ006181B0000	1/1
XT7 NEW	3/4	F - I-MO	450	1	PVCE1241	1STQ008184A0000	1/1
XT7 NEW	3/4	F - MO	450	1	PVCE1241	1STQ008184A0000	1/1
XT7 NEW	3/4	W - I	500	1	PVGT7413 (1)	1STQ006185B0000	1/1
XT7 NEW	3/4	W - MO	500	1	PVCE1240 *	1STQ008185A0000	1/1
XT7 NEW	3/4	W - I-MO	500	1	PVCE1240 *	1STQ008185A0000	1/1
XT7 NEW	3/4	W	500	1	PVGT7413 *	1STQ006185B0000	1/1
T4	3/4	F	350	1	PVCT4406	1STQ007983A0000	1/1
T4	3/4	F - MO	350	1	PVCT4404 (1)	1STQ007985A0000	1/1
T4	3/4	F - RHD	350	1	PVCT4406	1STQ007983A0000	1/1
T4	4	F - RC	450	1	PVCT4423	1STQ007987A0000	1/1
T5	3	P	200	1	PHCT5307 ■	1STQ001467B0000	1/1
T5	3	W	300	1	PHCT5310 ■	1STQ001469B0000	1/1
T5	3/4	F 400A/630A	350	1	PVCT5406	1STQ007989A0000	1/1
T5	3/4	F - MO 400A/630A	350	1	PVCT5404 (1)	1STQ007991A0000	1/1
T5	3/4	F - RHD 400A/630A	350	1	PVCT5406	1STQ007989A0000	1/1
T5	3/4	F 400/630A	350	2	PVCT5712	1STQ005221B0000	1/1
T5	3/4	P 400A	350	1	PVCT5426	1STQ008004A0000	1/1
T5	3/4	P - RHD 400A	350	1	PVCT5426	1STQ008004A0000	1/1
T5	3/4	W 400A	350	1	PVCT5414	1STQ007994A0000	1/1
T5	3/4	W - MO 400A	350	1	PVCT5412 (1)	1STQ007996A0000	1/1
T5	3/4	W - RHD 400A	350	1	PVCT5414	1STQ007994A0000	1/1
T5	4	F - RC 400A	450	1	PVCT5423	1STQ007999A0000	1/1
T5	4	P - RC 400A	450	1	PVCT5428	1STQ008002A0000	1/1
T5	3	P 630A	450	1	PVCT5307 ■	1STQ001468B0000	1/1
T5	3/4	P 630A	400	1	PVCT5407	1STQ002123B0000	1/1
T5	3/4	P - MO 630A	400	1	PVCT5409 (1) (2)	1STQ002133B0000	1/1
T5	3/4	W - MO 630A	400	1	PVCT5430 (1) (2)	1STQ002135B0000	1/1
T5	3	F 630A	450	3	PVCT5710 ■	1STQ001438B0000	1/1
T5	3	W 630A	450	2	PVCT5601 ■	1STQ001440B0000	1/1
T6	3/4	F	400	1	PVCT6401	1STQ008016A0000	1/1

* Oly rear terminal.
(1) Kit with recessed mounting plate. Only rear terminals.
(2) Compatible residual current devices: RC222 for XT5

To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/21. For fixed and withdrawable 3P breakers Tmax XT, non accessorized and mounted on 3/4P kit, it is necessary to order the dedicated cover flanges: AD3305 flange for XT1 3P mounted on plate, AD3306 flange for XT2 3P mounted on plate, AD3307 flange for XT3 3P mounted on plate, AD3308 flange for XT4 3P mounted on plate. With interlocked or interlocked motor-operated kits, it is necessary to order the quantity of flanges equal to the quantity of breakers.

Compatible residual current devices:
Tmax XT
RC Inst XT1-XT3, RC Sel. XT1-XT3 and RC Sel.. XT2-XT4 Type A. For XT1-XT3 fixed with residual current device high terminal covers are not available.
Tmax T
RC222 for T4 and T5.

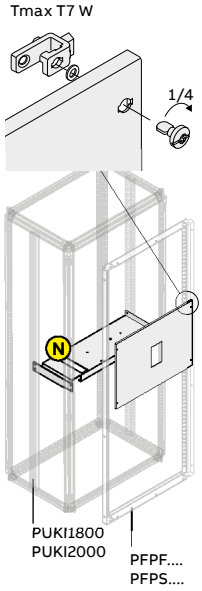
Key:

F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motoroperated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits

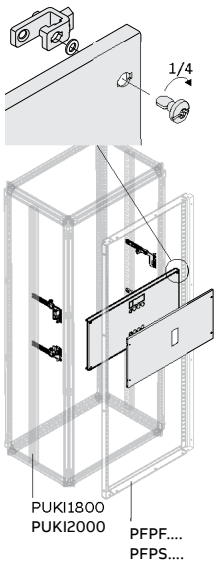


Kits for installation of Tmax circuit-breakers

VERTICAL INSTALLATION (front or rear connections

The kit includes the dedicated fixing brackets, the mounting plate and panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.
The kit for T7 W requires the neutral to be installed on the left.

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
24 DIN modules - W=600mm							
T6	3/4	F - MO	400	1	PVCT6404 (1)	1STQ008019A0000	1/1
T6	3/4	F - RHD	400	1	PVCT6405	1STQ008022A0000	1/1
T6	3/4	W	450	1	PVCT6414 ■	1STQ008026A0000	1/1
T6	3/4	W - MO	450	1	PVCT6412 (3) ■	1STQ008028A0000	1/1
T6	3/4	W - RHD	450	1	PVCT6414 ■	1STQ008026A0000	1/1
T7	3/4	F	450	1	PVCT7419	1STQ008034A0000	1/1
T7	3/4	F - I	450	1	PVCT7419	1STQ008034A0000	1/1
T7	3/4	F - I-MO	450	1	PVCT7419	1STQ008034A0000	1/1
T7	3/4	F - MO	450	1	PVCT7419	1STQ008034A0000	1/1
T7	3/4	W	500	1	PVCT7413 *	1STQ008035A0000	1/1
T7	3/4	W - I	500	1	PVCT7413 *	1STQ008035A0000	1/1
T7	3/4	W - I-MO	500	1	PVCT7413 *	1STQ008035A0000	1/1
T7	3/4	W - MO	500	1	PVCT7413 *	1STQ008035A0000	1/1



Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
36 DIN modules - W=800mm							
XT1	3/4	P	300	4	PVDX1807	1STQ009147A0000	1/1
XT2	3/4	F	300	4	PVDX2801	1STQ007924A0000	1/1
XT2	3/4	P	300	4	PVDX2807	1STQ007930A0000	1/1
XT3	3	P	300	4	PVDX3807	1STQ009151A0000	1/1
XT3	3/4	P	300	3	PVDX3707	1STQ009150A0000	1/1
XT4	3/4	F	300	3	PVDX4701	1STQ009143A0000	1/1
XT4	3	F	300	4	PVDX4801	1STQ007963A0000	1/1
XT4	3	P	300	4	PVDX4807	1STQ007969A0000	1/1
XT4	3/4P	P	350	3	PVDX4707	1STQ009145A0000	1/1
XT5 **NEW**	3/4	F - MO 400/630A	350	1	PVDX5404 (3)	1STQ007147B0000	1/1
XT5 **NEW**	3/4	F - RHD 400/630A	350	1	PVDX5406	1STQ007148B0000	1/1
XT5 **NEW**	3/4	F - 400/630A	350	1	PVDX5420	1STQ007612B0000	1/1
XT5 **NEW**	3/4	P - RHD 630A	400	1	PVDX5407	1STQ007149B0000	1/1
XT5 **NEW**	3/4	P - 630A	400	1	PVDX5427	1STQ007613B0000	1/1
XT5 **NEW**	3/4	P - MO 630A	400	1	PVDX5409 (3)	1STQ007150B0000	1/1
XT5 **NEW**	3/4	W - MO 400A	350	1	PVDX5412 (3)	1STQ007151B0000	1/1
XT5 **NEW**	3/4	W - RHD 400A	350	1	PVDX5414	1STQ007152B0000	1/1
XT5 **NEW**	4	F - RC 400A	450	1	PVDX5423 (2)	1STQ007153B0000	1/1
XT5 **NEW**	3/4	P - RHD 400A	350	1	PVDX5426	1STQ007154B0000	1/1
XT5 **NEW**	3/4	P - 400A	350	1	PVDX5429	1STQ007614B0000	1/1

■ Front terminals, only Form 1, high terminal covers not available.
(1) only front terminals not segregated
(2) compatible residual current devices: RC222 for XT5
(3) Kit with recessed mounting plate. Only rear terminals.

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
36 DIN modules - W=800mm							
XT5 **NEW**	4	P - RC 400A	450	1	PVDX5428 (2)	1STQ007155B0000	1/1
XT5 **NEW**	4/4	W - MO 630A	400	1	PVDX5430 (3)	1STQ007156B0000	1/1
XT5 **NEW**	3/4	W - 400/630A	350	2	PVDX5610	1STQ007157B0000	1/1
XT5 **NEW**	3/4	W - MO 400A	350	2	PVDX5612 (3)	1STQ007158B0000	1/1
XT5 **NEW**	3	W - 630A	450	3	PVDX5701 (1)	1STQ007159B0000	1/1
XT5 **NEW**	3/4	F - 400/630A	350	3	PVDX5813 (1)	1STQ007161B0000	1/1
XT5 **NEW**	3/4	F - 400/630A	350	2	PVDX5601	1STQ007169B0000	1/1
XT6 **NEW**	3/4	F	400	1	PVDX6401	1STQ007945B0000	1/1
XT6 **NEW**	3/4	F - MO	400	1	PVDX6404 (3)	1STQ007948B0000	1/1
XT6 **NEW**	3/4	F - RHD	400	1	PVDX6405	1STQ007951B0000	1/1
XT6 **NEW**	3/4	W	450	1	PVDX6414*	1STQ007955B0000	1/1
XT6 **NEW**	3/4	W - MO	450	1	PVDX6412 (3)	1STQ007957B0000	1/1
XT6 **NEW**	3/4	W - RHD	450	1	PVDX6415*	1STQ008044B0000	1/1
XT7 **NEW**	3/4	F	450	1	PVIT7419	1STQ006182B0000	1/1
XT7 **NEW**	3/4	F - MO	450	1	PVDE1241	1STQ008188A0000	1/1
XT7 **NEW**	3/4	F - I-MO	450	1	PVDE1241	1STQ008188A0000	1/1
XT7 **NEW**	3/4	F - I	450	1	PVIT7419	1STQ006182B0000	1/1
XT7 **NEW**	3/4	W	500	1	PVIT7413 (3)	1STQ006186B0000	1/1
XT7 **NEW**	3/4	W - I	500	1	PVIT7413 (3)	1STQ006186B0000	1/1
XT7 **NEW**	3/4	W - I-MO	500	1	PVDE1240 *	1STQ008189A0000	1/1
XT7 **NEW**	3/4	W - MO	500	1	PVDE1240 *	1STQ008189A0000	1/1
T5	3/4	F 400A/630A	350	1	PVDT5406	1STQ008006A0000	1/1
T5	3/4	F 400/630A	350	3	PVDT5813	1STQ005222B0000	1/1
T5	3/4	F - MO 400A/630A	350	1	PVDT5404 (3)	1STQ008007A0000	1/1
T5	3/4	F - RHD 400A/630A	350	1	PVDT5406	1STQ008006A0000	1/1
T5	3/4	P 400A	350	1	PVDT5426	1STQ008005A0000	1/1

■ Front terminals, only Form 1, high terminal covers not available.
(1) only front terminals not segregated
(2) compatible residual current devices: RC222 for XT5
(3) Kit with recessed mounting plate. Only rear terminals.

* Only rear terminals.

To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/21. For fixed and withdrawable 3P breakers Tmax XT, non accessorized and mounted on 3/4P kit, it is necessary to order the dedicated cover flanges: AD3305 flange for XT1 3P mounted on plate, AD3306 flange for XT2 3P mounted on plate, AD3307 flange for XT3 3P mounted on plate, AD3308 flange for XT4 3P mounted on plate. With interlocked or interlocked motor-operated kits, it is necessary to order the quantity of flanges equal to the quantity of breakers.

Compatible residual current devices:
Tmax XT
RC Inst XT1-XT3, RC Sel. XT1-XT3 and RC Sel.. XT2-XT4 Type A. For XT1-XT3 fixed with residual current device high terminal covers are not available.
Tmax T
RC222 for T4 and T5.

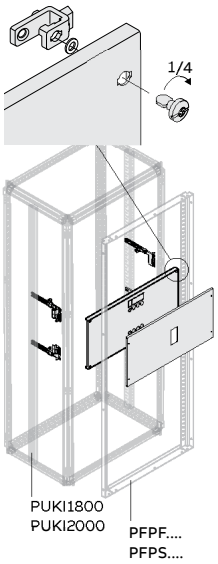
Key:

F	fixed	P - I	plug-in interlocked	W - MO	withdrawable motor-operated
F - I	fixed interlocked	P - I-MO	plug-in interlocked motoroperated	W - RC	withdrawable with residual current
F - I-MO	fixed interlocked motor-operated	P - MO	plug-in motor-operated	W - RHD	withdrawable with Direct Rotary Handle
F - MO	fixed motor-operated	P - RC	plug-in with residual current	W & W - I	withdrawable and withdrawable interlocked
F - RC	fixed with residual current	P - RHD	plug-in with Direct Rotary Handle		
F - RHD	fixed with Direct Rotary Handle	W	withdrawable		
F & F - I	fixed and fixed interlocked	W - I	withdrawable interlocked		
P	plug-in	W - I-MO	withdrawable interlocked motor-operated		

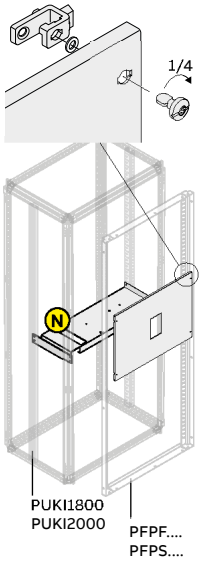
• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits



Tmax T7 W



Kits for installation of Tmax circuit-breakers

VERTICAL INSTALLATION (front or rear connections

The kit includes the dedicated fixing brackets, the mounting plate and panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.
The kit for T7 W requires the neutral to be installed on the left.

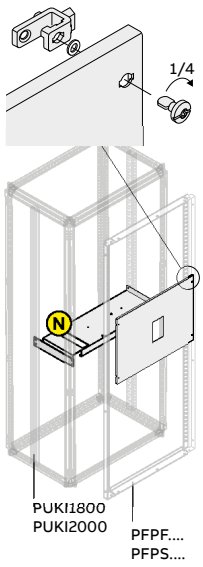
Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
36 DIN modules - W=800mm							
T5	3/4	P 630A	400	1	PVDT5407	1STQ002124B0000	1/1
T5	3/4	P - MO 630A	400	1	PVDT5409 (2) (3)	1STQ002134B0000	1/1
T5	3/4	P - RHD 400A	350	1	PVDT5426	1STQ008005A0000	1/1
T5 **NEW**	3/4	F	350	2	PVDT5601	1STQ005067B0000	1/1
T5	3/4	W	350	2	PVDT5610	1STQ008480A0000	1/1
T5	3/4	W 400A	350	1	PVDT5414	1STQ008008A0000	1/1
T5	3/4	W - MO	350	2	PVDT5612 (1)	1STQ008481A0000	1/1
T5	3/4	W - MO 400A	350	1	PVDT5412 (1)	1STQ007997A0000	1/1
T5	3/4	W - MO 630A	400	1	PVDT5430 (1) (2)	1STQ002136B0000	1/1
T5	3/4	W - RHD 400A	350	1	PVDT5414	1STQ008008A0000	1/1
T5	4	F - RC 400A	450	1	PVDT5423	1STQ008000A0000	1/1
T5	4	P - RC 400A	450	1	PVDT5428	1STQ008003A0000	1/1
T6	3/4	F	400	1	PVDT6401	1STQ008017A0000	1/1
T6	3/4	F - MO	400	1	PVDT6404 (3)	1STQ008020A0000	1/1
T6	3/4	F - RHD	400	1	PVDT6405	1STQ008023A0000	1/1
T6	3/4	W	450	1	PVDT6414 ■	1STQ008027A0000	1/1
T6	3/4	W - MO	450	1	PVDT6412 (3) ■	1STQ008029A0000	1/1
T6	3/4	W - RHD	450	1	PVDT6414 ■	1STQ008027A0000	1/1
T7	3/4	F	450	1	PVDT7419	1STQ008036A0000	1/1
T7	3/4	F - I	450	1	PVDT7419	1STQ008036A0000	1/1
T7	3/4	F - I-MO	450	1	PVDT7419	1STQ008036A0000	1/1
T7	3/4	F - MO	450	1	PVDT7419	1STQ008036A0000	1/1
T7	3/4	W	500	1	PVDT7413 *	1STQ008037A0000	1/1
T7	3/4	W - I	500	1	PVDT7413 *	1STQ008037A0000	1/1
T7	3/4	W - I-MO	500	1	PVDT7413 *	1STQ008037A0000	1/1
T7	3/4	W - MO	500	1	PVDT7413 *	1STQ008037A0000	1/1

■ Front terminals, only Form 1, high terminal covers not available.
* Only rear terminals.
(1) only front terminals not segregated
(2) compatible residual current devices: RC222 for XT5
(3) Kit with recessed mounting plate. Only rear terminals.

Internal kits

Order codes - Internal kits

Tmax T7 W



Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
48 DIN modules - W=1000mm							
XT5 **NEW**	3/4	W - 400/630	350	3	PVFX5710	1STQ007162B0000	1/1
XT5 **NEW**	3/4	W - MO- 400/630	350	3	PVFX5712	1STQ007163B0000	1/1
XT5 **NEW**	3	W - 400/630	350	4	PVFX5810	1STQ007164B0000	1/1
XT5 **NEW**	3	W - MO - 400/630	350	4	PVFX5812	1STQ007165B0000	1/1
XT6 **NEW**	3/4	W	450	2	PVFX6610*	1STQ007962B0000	1/1
XT6 **NEW**	3/4	W - MO	450	2	PVFX6612*	1STQ007963B0000	1/1
XT6 **NEW**	3/4	W - RHD	450	2	PVFX6615	1STQ008045B0000	1/1
XT7 **NEW**	3/4	W	500	2	PVLT7633 *	1STQ006187B0000	1/1
XT7 **NEW**	3/4	W - MO	500	2	PVFE1263 *	1STQ008486A0000	1/1
T5	3	W	350	4	PVFT5810	1STQ008013A0000	1/1
T5	3	W - MO	350	4	PVFT5812	1STQ008014A0000	1/1
T5	3/4	W	350	3	PVFT5710	1STQ008482A0000	1/1
T5	3/4	W - MO	350	3	PVFT5712	1STQ008483A0000	1/1
T6	3/4	W	450	2	PVFT6610 ■	1STQ008478A0000	1/1
T6	3/4	W - RHD	450	2	PVFT6610	1STQ008478A0000	1/1
T6	3/4	W - MO	450	2	PVFT6612 ■	1STQ008479A0000	1/1
T7	3/4	W	500	2	PVFT7633 *	1STQ008477A0000	1/1
T7	3/4	W - MO	500	2	PVFT7633 *	1STQ008477A0000	1/1

■ Front terminals, only Form 1, high terminal covers not available.
* Only rear terminals.

To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/21. For fixed and withdrawable 3P breakers Tmax XT, non accessorized and mounted on 3/4P kit, it is necessary to order the dedicated cover flanges: AD3305 flange for XT1 3P mounted on plate, AD3306 flange for XT2 3P mounted on plate, AD3307 flange for XT3 3P mounted on plate, AD3308 flange for XT4 3P mounted on plate. With interlocked or interlocked motor-operated kits, it is necessary to order the quantity of flanges equal to the quantity of breakers.

Compatible residual current devices:
Tmax XT
RC Inst XT1-XT3, RC Sel. XT1-XT3 and RC Sel.. XT2-XT4 Type A. For XT1-XT3 fixed with residual current device high terminal covers are not available.
Tmax T
RC222 for T4 and T5.

Key:

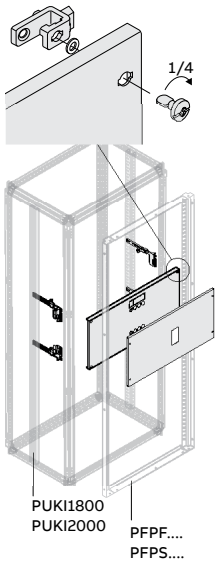
F	fixed
F - I	fixed interlocked
F - I-MO	fixed interlocked motor-operated
F - MO	fixed motor-operated
F - RC	fixed with residual current
F - RHD	fixed with Direct Rotary Handle
F & F - I	fixed and fixed interlocked
P	plug-in
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motoroperated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated
W - MO	withdrawable motor-operated
W - RC	withdrawable with residual current
W - RHD	withdrawable with Direct Rotary Handle
W & W - I	withdrawable and withdrawable interlocked

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

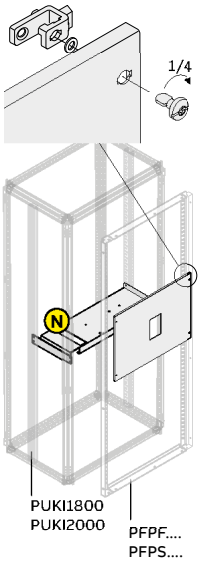
Internal kits

Order codes - Internal kits

Emax E1.2 F



Emax E1.2 W



Kit for installing Emax 2 breakers

VERTICAL INSTALLATION (front or rear connections)

The kit includes the dedicated fixing brackets, the mounting plate and panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.

Front or rear connections

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
12 DIN modules - W=400mm							
E1.2	3/4	F	450	1	PVBE1241	1STQ008179A0000	1/1
E1.2	3/4	F - I	450	1	PVBE1241	1STQ008179A0000	1/1
24 DIN modules - W=600mm							
E1.2	3/4	F	450	1	PVCE1241	1STQ008184A0000	1/1
E1.2	3/4	F - I	450	1	PVCE1241	1STQ008184A0000	1/1
E1.2	3/4	W	500	1	PVCE1240*	1STQ008185A0000	1/1
E1.2	3/4	W - I	500	1	PVCE1240*	1STQ008185A0000	1/1
36 DIN modules - W=800mm							
E1.2	3/4	F	450	1	PVDE1241	1STQ008188A0000	1/1
E1.2	3/4	F - I	450	1	PVDE1241	1STQ008188A0000	1/1
E1.2	3/4	F	450	2	PVDE1262	1STQ008485A0000	1/1
E1.2	3/4	W	500	1	PVDE1240*	1STQ008189A0000	1/1
E1.2	3/4	W - I	500	1	PVDE1240*	1STQ008189A0000	1/1
48 DIN modules - W=1000mm							
E1.2	3/4	W	500	2	PVFE1263*	1STQ008486A0000	1/1

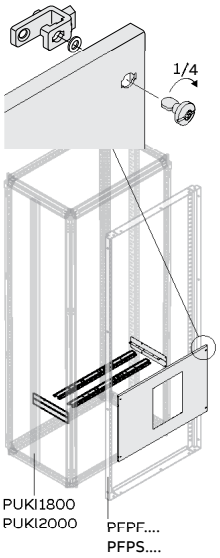
To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm.
Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels.

Key:

F	fixed
F - I	fixed interlocked
W	withdrawable
W - I	withdrawable interlocked
HS	50% neutral
FS	100% neutral

Internal kits

Order codes - Internal kits



Kit for installing Emax 2 circuit-breakers

Vertical installation (front or rear connections)

The kit includes the dedicated fixing brackets, the mounting plate and panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.

Only rear connections

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
24 DIN modules - W=600mm							
E2.2	3/4	F	600	1	PVCE2441	1STQ008186A0000	1/1
E2.2	3/4	F - I	600	1	PVCE2441	1STQ008186A0000	1/1
E2.2	3/4	W	600	1	PVCE2450	1STQ008187A0000	1/1
E2.2	3/4	W - I	600	1	PVCE2450	1STQ008187A0000	1/1
E4.2	3	W	600	1	PVCE4350	1STQ009991A0000	1/1
E4.2	3	W - I	600	1	PVCE4350	1STQ009991A0000	1/1
E4.2	3/4	F	600	1	PVCE2442	1STQ008484A0000	1/1
36 DIN modules - W=800mm							
E2.2	3/4	F	600	1	PVDE2441	1STQ008190A0000	1/1
E2.2	3/4	F - I	600	1	PVDE2441	1STQ008190A0000	1/1
E2.2	3/4	W	600	1	PVDE2440	1STQ008191A0000	1/1
E2.2	3/4	W - I	600	1	PVDE2440	1STQ008191A0000	1/1
E4.2	3/4	F	600	1	PVDE2441	1STQ008190A0000	1/1
E4.2	3/4	F - I	600	1	PVDE2441	1STQ008190A0000	1/1
E4.2	3/4	W	600	1	PVDE2440	1STQ008191A0000	1/1
E4.2	3/4	W - I	600	1	PVDE2440	1STQ008191A0000	1/1
48 DIN modules - W=1000mm							
E6.2	3/4 HS	F	700	1	PVFE6231	1STQ008192A0000	1/1
E6.2	3	F - I	700	1	PVFE6231	1STQ008192A0000	1/1
E6.2	3	W	700	1	PVFE6230	1STQ008193A0000	1/1
E6.2	3	W - I	700	1	PVFE6230	1STQ008193A0000	1/1
62 DIN modules - W=1250mm							
E2.2	3/4	W	600	1	PVGE2440	1STQ004225B0000	1/1
E6.2	4 HS/FS	F	700	1	PVGE6231	1STQ008194A0000	1/1
E6.2	4 HS/FS	F - I	700	1	PVGE6231	1STQ008194A0000	1/1
E6.2	4 HS/FS	W	700	1	PVGE6230	1STQ008195A0000	1/1
E6.2	4 HS/FS	W - I	700	1	PVGE6230	1STQ008195A0000	1/1

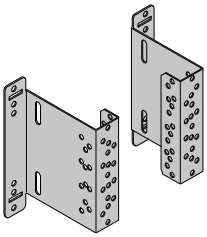
To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm.
Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels.

Key:

F	fixed
F - I	fixed interlocked
W	withdrawable
W - I	withdrawable interlocked
HS	50% neutral
FS	100% neutral

Internal kits

Order codes - Internal kits



NEW Brackets for fastening connections towards busbars or to terminate cables for horizontal moulded-case circuit-breakers

These brackets allow the first anchor plate to be fastened to horizontal circuit-breakers. Note that the Instructions for installing the circuit-breakers contain indications about the recommended maximum distance (in mm) within which the first anchor plate should be positioned with respect to the permissible maximum peak current of the circuit-breaker and the section of the cable/connections with busbars.

Description	Type	Order code	Pack./ No.pcs
2 (two) brackets 3/4P XT1-XT2-XT3-XT4-T4 H=150mm (pitch 25-30-35mm)	PBBX0151N	1STQ006919B0000	1/2
2 (two) brackets 3/4P XT1-XT2-XT3-XT4-T4 H=200/250mm (pitch 25-30-35mm)	PBBX2250N	1STQ006920B0000	1/2
2 (two) brackets 3P XT5-T5 H=200mm (pitch 46.5mm)	PBBT0200N	1STQ007034B0000	1/2
2 (two) brackets 3/4P XT5-T5 H=250/300/350mm (pitch 46.5mm)	PBBT0300N	1STQ006921B0000	1/2
2 (two) brackets 3/4P XT6-T6-XT7-T7-E1.2 H=300/350mm (pitch 70mm)	PBBT0300N	1STQ006922B0000	1/2
2 (two) brackets 3/4P XT6-T6-XT7-T7-E1.2 H=400/500mm (pitch 70mm)	PBBT0345N	1STQ006923B0000	1/2

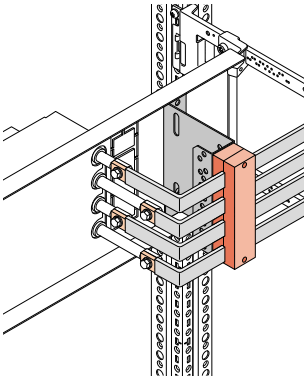
Cubicle P3 - Form 4b must be used if the bracket is used with flanged plates. The bracket can only be used with minimum cubicle P1 - Form 4b with kits in Fixed versions XT1 XT2 XT3 XT4. In all other cases, use the bracket with cubicle P2 - Form 4b.
For details about use consul Chapter 7 - Examples of brackets used for horizontal moulded-case circuit-breakers.

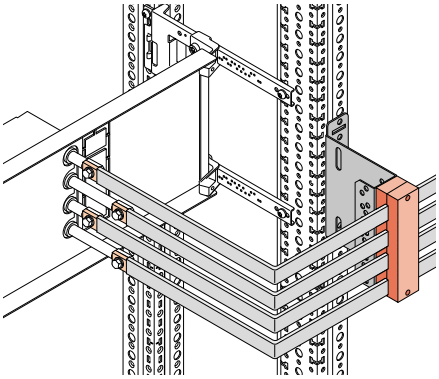
Example of brackets used with flexible busbars and insulators in GPO3

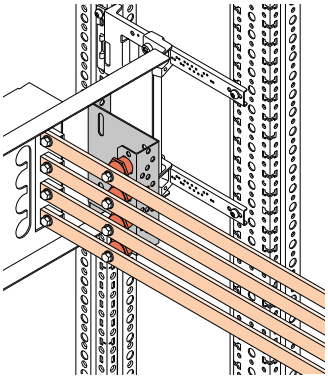
Description	GPO3 insulator Code	GPO3 height (mm)
1 (one) GPO3 insulator for XT1-XT2-XT3-XT4-T4 H=200-250mm and T5 H=200mm (horizontal installation)	PITH1234	157
1 (one) GPO3 insulator for XT5-T5 H=250-300-350mm and XT6-T6-XT7-T7 H=300mm (horizontal installation)	PITH5000	207
1 (one) GPO3 insulator for XT6-T6H=350-500mm (HORIZONTAL INSTALLATION)	PITH6000	307
1 (one) GPO3 insulator for XT7-T7-E1.2 H=350-400-500mm (HORIZONTAL INSTALLATION)	PITE7120	307

Example of brackets used with copper busbars and hexagonal insulators

Description	Bracket Code	Hexagonal insulators
2 (two) brackets XT2-XT3-XT4-T4 H150 (pitch 25-30-35mm)	PBBX0150	EV1122 - 50 insulators 30x30xM6
2 (two) brackets XT2-XT3-XT4-T4 H=200/250mm (pitch 25-30-35mm)	PBBX2250	EV1122 - 50 insulators 30x30xM6
2 (two) brackets XT5-T5 H=200mm (pitch 46.5mm)	PBBT0200	EV1123 - 50 insulators 30x30xM8
2 (two) brackets XT5-T5 H=250/300/350mm (pitch 46.5mm)	PBBT0250	EV1123 - 50 insulators 30x30xM8
2 (two) brackets XT6-T6-XT7-T7-E1.2 H=300mm (pitch 70mm)	PBBT0300	EV1123 - 50 insulators 30x30xM8
2 (two) brackets XT6-T6-XT7-T7-E1.2 H=350/400/550mm (pitch 70mm)	PBBT0345	EV1123 - 50 insulators 30x30xM8



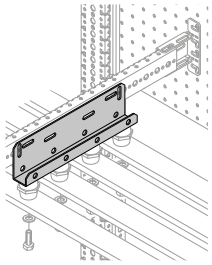




• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits



NEW Bracket for anchor plates for Emax and Tmax T7 circuit-breaker connections

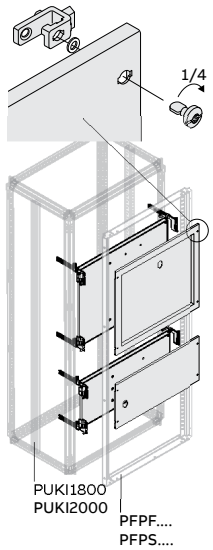
These brackets are designed to facilitate the creation (using screws and hexagonal insulators) of bus-bar anchor plates from the terminals of the circuit-breakers towards the main omnibus busbar system.

Description	Type	Order code	Pack/ No. pcs
Bracket for anchor plates for XT7-T6 -T7- E1.2 VERTICAL INSTALLATION (pitch 70 mm)	PBBE0712	1STQ005077B0000	1/1
Bracket for anchor plates for E2.2 - E 4.2VERTICAL INSTALLATION 90-126 mm (pitch 90-126mm)	PBBE2242	1STQ005078B0000	1/1
Bracket for anchor plates for E6.2 VERTICAL INSTALLATION 252 mm (pitch 252mm)	PBBE0062	1STQ005079B0000	1/1

For details about use and how to select the screws and anchor plates, consult Chapter 7 - Examples of connections from circuit-breaker towards omnibus busbars.

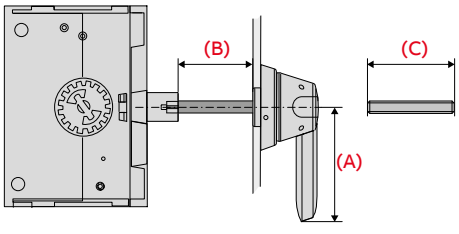
Kits for OT

Kit for OT switch-disconnectors available up to 1600A both in horizontal and vertical version. The kit includes the dedicated fixing brackets, the mounting plate and panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit. For structure with intermediate upright.



Description	Dimensions (mm) H	W	Dimensions maximum handle (A) (mm)	Lever position	Type	Order code	Pack/ No. pcs
Vertical installation kit 3/4 poles							
OT 160, 200, 250, OT160EV	350	600	80	E03-E04	PKOV1660	1STQ007437A0000	1/1
OT 160, 200, 250 OT160EV	350	800	80	E03-E04	PKOV1680	1STQ007440A0000	1/1
OT 315, 400	450	600	175	E03-E04	PKOV3160	1STQ008399A0000	1/1
OT 315, 400	450	800	175	E03-E04	PKOV3180	1STQ008400A0000	1/1
OT 630, 800	500	600	175	E03-E04	PKOV6360	1STQ007438A0000	1/1
OT 630, 800	500	800	175	E03-E04	PKOV6380	1STQ007441A0000	1/1
OT 1000, 1250, 1600*	600	600	175	E12-E22	PKOV1060	1STQ007439A0000	1/1
OT 1000, 1250, 1600*	600	800	175	E12-E22	PKOV1080	1STQ007442A0000	1/1
Horizontal installation kit 3/4 poles							
OT 160, 200, 250, OT160EV	250	600	80	E03-E04	PKOH1660	1STQ007443A0000	1/1
OT 160, 200, 250, OT160EV	250	800	80	E03-E04	PKOH1680	1STQ007446A0000	1/1
OT 315, 400	300	600	175	E03-E04	PKOH3160	1STQ008401A0000	1/1
OT 315, 400	300	800	175	E03-E04	PKOH3180	1STQ008402A0000	1/1
OT 630, 800	500	600	175	E03-E04	PKOH6360	1STQ007444A0000	1/1
OT 630, 800	500	800	175	E03-E04	PKOH6380	1STQ007447A0000	1/1
OT 1000, 1250, 1600*	600	600	175	E12-E22(1)	PKOH1060	1STQ007445A0000	1/1
OT 1000, 1250, 1600*	600	800	175	E12-E22	PKOH1080	1STQ007448A0000	1/1

*Circuit breakers with recessed mounting plate. (1) Only low terminal covers.
Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels.
The intermediate upright must always be used. Use extension kit PKEK004 in structures where D=300mm



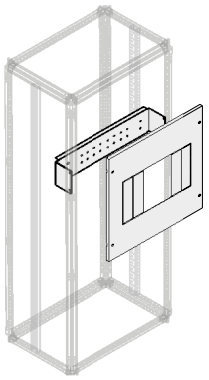
Description	(B) * Screw distance from Panel edge (mm)	(C) Length ofrecommended shaft type (mm)
OT 160, 200, 250, OT160EV	130 Ø6	150
OT 315, 400	95 Ø12	166
OT 630, 800	70 Ø12	166
OT 1000, 1250, 1600	170 Ø12	250

*Add 20mm to dimension for shaft assembly.

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

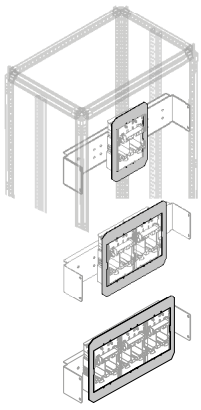
Order codes - Internal kits



NEW Kits for Easy Line XLP

Kit for Easy Line Fuse Switch Disconnector XLP up to 630A 3P vertical mountuing.
The kit includes the dedicated fixing brackets, the mounting plate and panels with 1/4 turn screws.
For each device type and quantity per kit order the frontframe cover as table below.

	Dimensions (mm)					
Description	**H**	**W**	**N. XLP per KIT**	**Type**	**Order code**	**Pkg/ No. pcs**
Kit for XLP00 up to 2 devices	300	400	up to 2	PXLP0040	1STQ005299B0000	1/1
Kit for XLP00 up to 3 devices		600	up to 3	PXLP0060	1STQ005300B0000	1/1
Kit for XLP01 for 1 device	400	400	1	PXLP0140	1STQ005301B0000	1/1
Kit for XLP01 up to 2 devices		600	up to 2	PXLP0160	1STQ005302B0000	1/1
Kit for XLP02 for 1 device	450	400	1	PXLP0240	1STQ005303B0000	1/1
Kit for XLP02 up to 2 devices		600	up to 2	PXLP0260	1STQ005304B0000	1/1
Kit for XLP03 for 1 device	550	400	1	PXLP0340	1STQ005305B0000	1/1
Kit for XLP03 for 1 device		600	1	PXLP0360	1STQ005306B0000	1/1

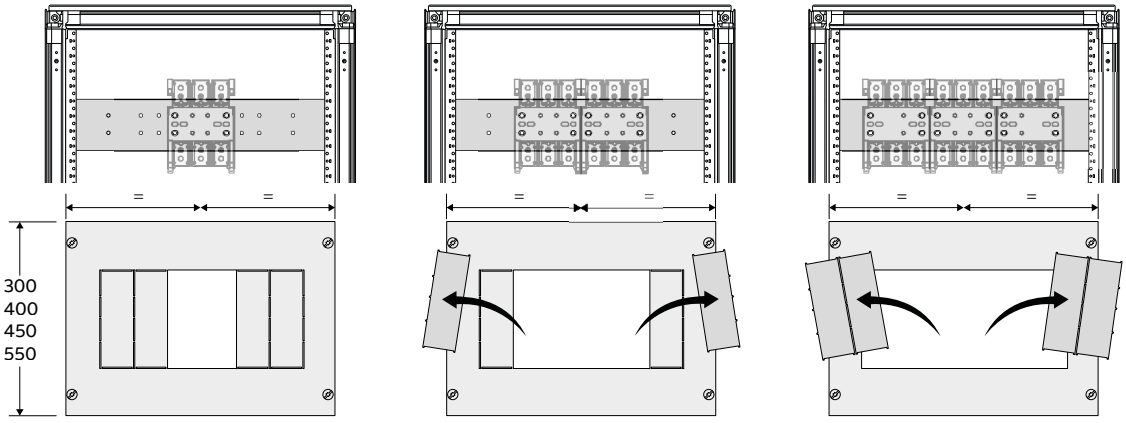


Frontframe for XLP

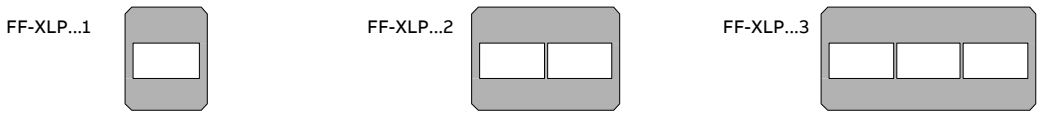
For each device type and quantity per kit order the frontframe cover as table below.

	Dimensioni (mm)			
Descrizione	**H**	**Tipo**	**Codice d'ordine**	**Conf./ N°pezzi**
Frontframe for 1 XLP00	300	FF-XLP00-3P1	1SEP407792R0001	1/1
Frontframe for 2 XLP00		FF-XLP00-3P2	1SEP407792R0002	1/1
Frontframe for 3 XLP00		FF-XLP00-3P3	1SEP407792R0003	1/1
Frontframe for 1 XLP1	400	FF-XLP1-3P1	1SEP407815R0001	1/1
Frontframe for 1 XLP1		FF-XLP1-3P2	1SEP407815R0002	1/1
Frontframe for 1 XLP2	450	FF-XLP2-3P1	1SEP407951R0001	1/1
Frontframe for 2 XLP2		FF-XLP2-3P2	1SEP407951R0002	1/1
Frontframe for 1 XLP3	550	FF-XLP3-3P1	1SEP407955R0001	1/1

Kit for Easy Line XLP



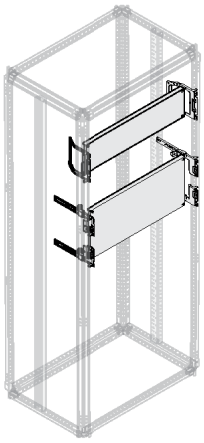
Front frames for Easy Line XLP



• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits

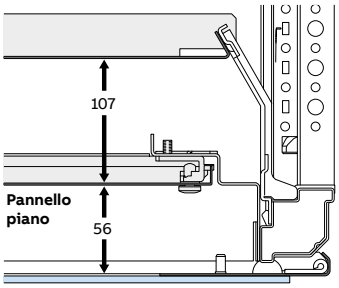


Blind mounting plates

The kit includes the dedicated fixing brackets and the mounting plate.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Blind assembly plate	150	400	PPMB1540	1STQ007521A0000	1/1
Blind assembly plate	200	400	PPMB2040	1STQ007522A0000	1/1
Blind assembly plate	250	400	PPMB2540	1STQ007523A0000	1/1
Blind assembly plate	300	400	PPMB3040	1STQ007524A0000	1/1
Blind assembly plate	350	400	PPMB3540	1STQ002009B0000	1/1
Blind assembly plate	400	400	PPMB4040	1STQ007525A0000	1/1
Blind assembly plate	450	400	PPMB4540	1STQ002010B0000	1/1
Blind assembly plate	500	400	PPMB5004	1STQ007526A0000	1/1
Blind assembly plate	600	400	PPMB6040	1STQ007527A0000	1/1
Blind assembly plate	150	600	PPMB1560	1STQ007533A0000	1/1
Blind assembly plate	200	600	PPMB2060	1STQ007534A0000	1/1
Blind assembly plate	250	600	PPMB2560	1STQ007535A0000	1/1
Blind assembly plate	300	600	PPMB3060	1STQ007536A0000	1/1
Blind assembly plate	350	600	PPMB3560	1STQ002011B0000	1/1
Blind assembly plate	400	600	PPMB4060	1STQ007537A0000	1/1
Blind assembly plate	450	600	PPMB4560	1STQ002012B0000	1/1
Blind assembly plate	500	600	PPMB5006	1STQ007538A0000	1/1
Blind assembly plate	600	600	PPMB6060	1STQ007539A0000	1/1
Blind assembly plate	150	800	PPMB1580	1STQ007545A0000	1/1
Blind assembly plate	200	800	PPMB2080	1STQ007546A0000	1/1
Blind assembly plate	250	800	PPMB2580	1STQ007547A0000	1/1
Blind assembly plate	300	800	PPMB3080	1STQ007548A0000	1/1
Blind assembly plate	350	800	PPMB3580	1STQ002013B0000	1/1
Blind assembly plate	400	800	PPMB4080	1STQ007549A0000	1/1
Blind assembly plate	450	800	PPMB4580	1STQ002014B0000	1/1
Blind assembly plate	500	800	PPMB5008	1STQ007550A0000	1/1
Blind assembly plate	600	800	PPMB6080	1STQ007551A0000	1/1
Blind assembly plate	150	1000	PPMB1510	1STQ001587B0000	1/1
Blind assembly plate	200	1000	PPMB2010	1STQ007556A0000	1/1
Blind assembly plate	300	1000	PPMB3010	1STQ007557A0000	1/1
Blind assembly plate	400	1000	PPMB4010	1STQ007558A0000	1/1
Blind assembly plate	500	1000	PPMB5001	1STQ007559A0000	1/1
Blind assembly plate	600	1000	PPMB6010	1STQ007560A0000	1/1
Blind assembly plate	200	1250	PPMB2012	1STQ007565A0000	1/1
Blind assembly plate	250	1250	PPMB2512	1STQ009156A0000	1/1
Blind assembly plate	300	1250	PPMB3012	1STQ007566A0000	1/1
Blind assembly plate	350	1250	PPMB3512	1STQ009157A0000	1/1

PPMB1540 - PPMB1580



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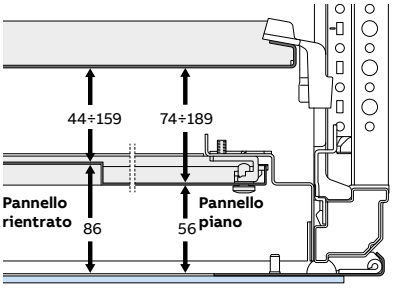
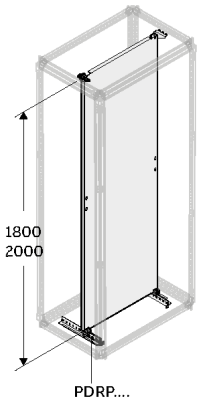


• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

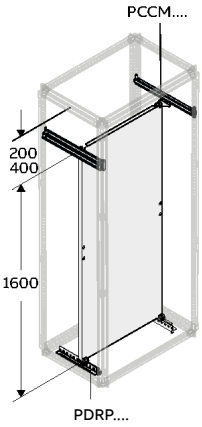
Internal kits

Order codes - Internal kits



Blind mounting plates total height

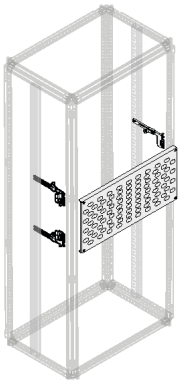
Description	Dimensions (mm) H	W	D	Type	Order code	Pkg/ No. pcs
Blind mounting plate	1600	400		PWRP1640	1STQ001965B0000	1/1
Blind assembly plate	1600	600		PWRP1660	1STQ001966B0000	1/1
Blind assembly plate	1600	800		PWRP1680	1STQ001967B0000	1/1
Blind assembly plate	1800	400		PWRP1840	1STQ001899B0000	1/1
Blind assembly plate	1800	600		PWRP1860	1STQ001900B0000	1/1
Blind assembly plate	1800	800		PWRP1880	1STQ001901B0000	1/1
Blind assembly plate	2000	400		PWRP2040	1STQ001902B0000	1/1
Blind assembly plate	2000	600		PWRP2060	1STQ001903B0000	1/1
Blind assembly plate	2000	800		PWRP2080	1STQ001904B0000	1/1
Tracks for front insertion						
Pair of tracks for total height mounting plate			300	PDRP0300	1STQ002335B0000	1/1
Pair of tracks for total height mounting plate			500	PDRP0500	1STQ002336B0000	1/1
Pair of tracks for total height mounting plate			700	PDRP0700	1STQ002337B0000	1/1
Pair of tracks for total height mounting plate			900	PDRP0900	1STQ002338B0000	1/1



Crosspieces for mounting blind total height plate

Description	Dimensions (mm) D	Type	Order code	Pkg/ No. pcs
No.2 crosspieces	200	PCCM0200	1STQ007744A0000	1/2
No.2 crosspieces	300	PCCM0300	1STQ007745A0000	1/2
No.2 crosspieces	500	PCCM0500	1STQ007746A0000	1/2
No.2 crosspieces	700	PCCM0700	1STQ007747A0000	1/2
No.2 crosspieces	900	PCCM0900	1STQ007748A0000	1/2

If the enclosure is higher than total height mounting plate, order no. 1 PCCM.... to mount the total height blind plate.



Motor Control Center Fixed plate

The System Pro E Power MCC fixed plate allows the installation of command and control devices for the operation of motors in a reliable, secure and efficient manner. Typical devices are: Magnetic only circuit-breakers, Contactors, External thermal relays, switch-disconnectors, thermal-magnetic circuit breakers, soft starters. Each code comprehends one plate in galvanized sheet metal, two supports per side and the fixing elements. The end user will be able to install the devices on the plate before assembling it in the enclosure.

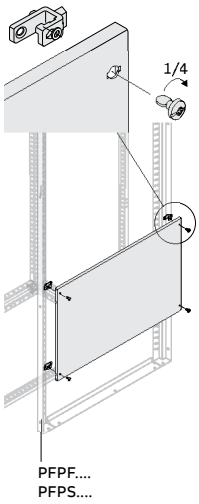
Description	Plate Width (mm)	Plate Height (mm)	Type	Order code	Pkg/ No. pcs
Asolated plate MCC	600	200	PMCC2060	1STQ005521B0000	
Asolated plate MCC	600	300	PMCC3060	1STQ005522B0000	
Asolated plate MCC	600	400	PMCC4060	1STQ005523B0000	
Asolated plate MCC	600	600	PMCC6060	1STQ005524B0000	
Asolated plate MCC	600	800	PMCC8060	1STQ005525B0000	

For devices selection, please go to the following ABB link: https://applications.it.abb.com/SOC/Page/Selection.aspx

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits



Flat blind panels

Panels with 1/4 turn screws, hinged on the right or left with the dedicated PHFP0020 kit.

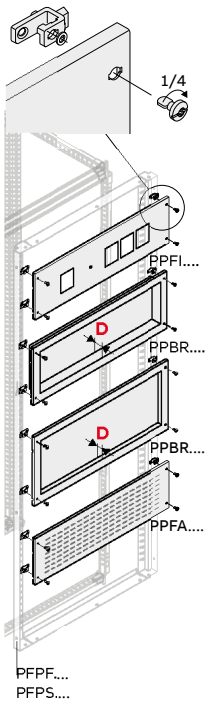
Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Flat blind panel	50	400	PPFB5040	1STQ007465A0000	1/1
Flat blind panel	100	400	PPFB1040	1STQ007466A0000	1/1
Flat blind panel	150	400	PPFB1540	1STQ007467A0000	1/1
Flat blind panel	200	400	PPFB2040	1STQ007468A0000	1/1
Flat blind panel	250	400	PPFB2540	1STQ007469A0000	1/1
Flat blind panel	300	400	PPFB3040	1STQ007470A0000	1/1
Flat blind panel	350	400	PPFB3540	1STQ002015B0000	1/1
Flat blind panel	400	400	PPFB4040	1STQ007471A0000	1/1
Flat blind panel	450	400	PPFB4540	1STQ002016B0000	1/1
Flat blind panel	500	400	PPFB5004	1STQ007472A0000	1/1
Flat blind panel	600	400	PPFB6040	1STQ007473A0000	1/1
Flat blind panel	800	400	PPFB8040	1STQ007474A0000	1/1
Flat blind panel	1800	400	PPFB1840*	1STQ007475A0000	1/1
Flat blind panel	2000	400	PPFB2004*	1STQ007476A0000	1/1
Flat blind panel	50	600	PPFB5060	1STQ007477A0000	1/1
Flat blind panel	100	600	PPFB1060	1STQ007478A0000	1/1
Flat blind panel	150	600	PPFB1560	1STQ007479A0000	1/1
Flat blind panel	200	600	PPFB2060	1STQ007480A0000	1/1
Flat blind panel	250	600	PPFB2560	1STQ007481A0000	1/1
Flat blind panel	300	600	PPFB3060	1STQ007482A0000	1/1
Flat blind panel	350	600	PPFB3560	1STQ002017B0000	1/1
Flat blind panel	400	600	PPFB4060	1STQ007483A0000	1/1
Flat blind panel	450	600	PPFB4560	1STQ002018B0000	1/1
Flat blind panel	500	600	PPFB5006	1STQ007484A0000	1/1
Flat blind panel	600	600	PPFB6060	1STQ007485A0000	1/1
Flat blind panel	800	600	PPFB8060	1STQ007486A0000	1/1
Flat blind panel	1800	600	PPFB1860*	1STQ007487A0000	1/1
Flat blind panel	2000	600	PPFB2006*	1STQ007488A0000	1/1
Flat blind panel	50	800	PPFB5080	1STQ007489A0000	1/1
Flat blind panel	100	800	PPFB1080	1STQ007490A0000	1/1
Flat blind panel	150	800	PPFB1580	1STQ007491A0000	1/1
Flat blind panel	200	800	PPFB2080	1STQ007492A0000	1/1
Flat blind panel	250	800	PPFB2580	1STQ007493A0000	1/1
Flat blind panel	300	800	PPFB3080	1STQ007494A0000	1/1
Flat blind panel	350	800	PPFB3580	1STQ002019B0000	1/1
Flat blind panel	400	800	PPFB4080	1STQ007495A0000	1/1
Flat blind panel	450	800	PPFB4580	1STQ002020B0000	1/1
Flat blind panel	500	800	PPFB5008	1STQ007496A0000	1/1
Flat blind panel	600	800	PPFB6080	1STQ007497A0000	1/1
Flat blind panel	800	800	PPFB8080	1STQ007498A0000	1/1
Flat blind panel	1800	800	PPFB1880*	1STQ007499A0000	1/1
Flat blind panel	2000	800	PPFB2008*	1STQ007500A0000	1/1
Flat blind panel	100	1000	PPFB1010	1STQ007501A0000	1/1
Flat blind panel	150	1000	PPFB1510	1STQ001479B0000	1/1
Flat blind panel	200	1000	PPFB2010	1STQ007502A0000	1/1
Flat blind panel	300	1000	PPFB3010	1STQ007503A0000	1/1
Flat blind panel	400	1000	PPFB4010	1STQ007504A0000	1/1
Flat blind panel	500	1000	PPFB5001	1STQ007505A0000	1/1
Flat blind panel	600	1000	PPFB6010	1STQ007506A0000	1/1
Flat blind panel	800	1000	PPFB8010	1STQ007507A0000	1/1
Flat blind panel	100	1250	PPFB1013	1STQ004229B0000	1/1
Flat blind panel	200	1250	PPFB2012	1STQ007511A0000	1/1
Flat blind panel	250	1250	PPFB2512	1STQ009154A0000	1/1
Flat blind panel	300	1250	PPFB3012	1STQ007512A0000	1/1
Flat blind panel	350	1250	PPFB3512	1STQ009155A0000	1/1

Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels.
* Only for swing frame PFPS.... Not compatible with the hinges accessory PHFP0020.

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits



Panels for square measuring instruments

Panels with 1/4 turn screws, hinged on the right or left with the dedicated PHFP0020 kit.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Panel 2 instruments 72x72	200	600	PPFI2726	1STQ008092A0000	1/1
Panel 2 instruments 72x72	200	800	PPFI2728	1STQ008093A0000	1/1
Panel 2 instruments 96x96	200	600	PPFI2966	1STQ008094A0000	1/1
Panel 2 instruments 96x96	200	800	PPFI2968	1STQ008095A0000	1/1
Panel 4 instruments 72x72	200	600	PPFI4726	1STQ008096A0000	1/1
Panel 4 instruments 72x72	200	800	PPFI4728	1STQ008097A0000	1/1
Panel 4 instruments 96x96	200	800	PPFI4968	1STQ008098A0000	1/1

Recessed blind panels

Description	Dimensions (mm) H	W	D	Type	Order code	Pkg/ No. pcs
Recessed blind panel	200	400	30	PPBR2040	1STQ007723A0000	1/1
Recessed blind panel	400	400	30	PPBR4040	1STQ007724A0000	1/1
Recessed blind panel	600	400	30	PPBR6040	1STQ007725A0000	1/1
Recessed blind panel	200	600	30	PPBR2060	1STQ007726A0000	1/1
Recessed blind panel	200	600	80	PPBR2068	1STQ001399B0000	1/1
Recessed blind panel	400	600	30	PPBR4060	1STQ007727A0000	1/1
Recessed blind panel	600	600	30	PPBR6060	1STQ007728A0000	1/1
Recessed blind panel	200	800	80	PPBR2080	1STQ007729A0000	1/1
Recessed blind panel	200	800	30	PPBR2088	1STQ001400B0000	1/1
Recessed blind panel	400	800	30	PPBR4080	1STQ007730A0000	1/1
Recessed blind panel	600	800	30	PPBR6080	1STQ007731A0000	1/1

Ventilated panels

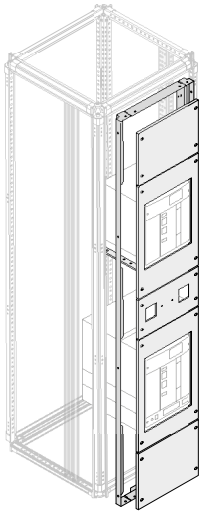
Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Ventilated panel	100	400	PPFA1040	1STQ007732A0000	1/1
Ventilated panel	200	400	PPFA2040	1STQ007733A0000	1/1
Ventilated panel	100	600	PPFA1060	1STQ007734A0000	1/1
Ventilated panel	200	600	PPFA2060	1STQ007735A0000	1/1
Ventilated panel	100	800	PPFA1080	1STQ007736A0000	1/1
Ventilated panel	200	800	PPFA2080	1STQ007737A0000	1/1
Ventilated panel	100	1000	PPFA1010	1STQ007738A0000	1/1
Ventilated panel	200	1000	PPFA2010	1STQ007739A0000	1/1

Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels.

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

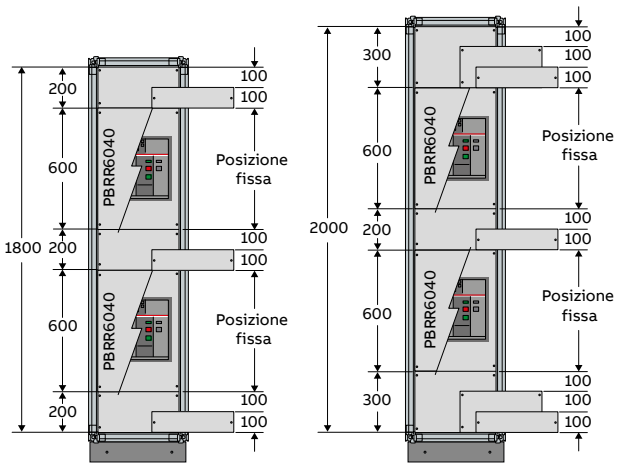
Order codes - Internal kits



“Space-saving” column W=400mm

The “space-saving” column is composed of one reduced fixed frame (H=1800mm or H=2000mm) for W=400mm columns with two fixed positions for the kit exclusively dedicated to: E1.2 3/4P W; E2.2 3P F; E2.2 3P W. In order to complete this solution: blind panel H=100, 200, 300 and 600mm; modular or instrument panels H=200mm. In this column type, it is not possible to mount kits for air-circuit breakers, moulded-case circuit breakers or modular breakers. The only possible configurations are the following ones.

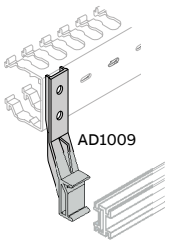
Description	Dimensions (mm) H	W	D	Type	Order code	Pkg/ No. pcs
Frame						
Reduced fixed frame	1800	400		PFRF1840	1STQ009283A0000	1/1
Reduced fixed frame	2000	400		PFRF2040	1STQ009284A0000	1/1
Kit for reduced frame						
XT7 3/4 P W MO vertical - with out lever	600	400		PRBE1243	1STQ009285A0000	1/1
XT7 3/4 W vertical - with lever , with out door	600	400		PRBE1243	1STQ009285A0000	1/1
E1.2 3/4 P W vertical	600	400		PRBE1243	1STQ009285A0000	1/1
E2.2 3 P F vertical	600	400		PRBE2232	1STQ009286A0000	1/1
E2.2 3 P W vertical	600	400		PRBE2233	1STQ009287A0000	1/1
Recessed blind mounting plate	600	400		PBRR6040	1STQ001565B0000	1/1
Panel for reduced frame						
Blind panel	100	400		PBRP1040	1STQ009288A0000	1/1
Blind panel	200	400		PBRP2040	1STQ009289A0000	1/1
Blind panel	300	400		PBRP3040	1STQ009290A0000	1/1
Blind panel	600	400		PBRP6040	1STQ009291A0000	1/1
Blind recessed panel	600	400		PPRR6040	1STQ001566B0000	1/1
Modular panel	200	400		PMRP2040	1STQ009292A0000	1/1
Standard DIN Rail		400		PDRS0400	1STQ008041A0000	1/1
Panel 2 instruments 72x72	200	400		PIRP2040	1STQ009293A0000	1/1
Segregation Form 2a-3a						
E1.2 W	600	400		PSVW6041	1STQ001568B0000	1/1
E2.2 F	600	400		PSVF6042	1STQ001569B0000	1/1
E2.2 W	600	400		PSVW6042	1STQ001570B0000	1/1
Segregation Form 3b						
E1.2 W	400		500	PSHW4051	1STQ001571B0000	1/1
E1.2 W	400		700	PSHW4071	1STQ001572B0000	1/1
E1.2 W	400		900	PSHW4091	1STQ001573B0000	1/1
E2.2 F	400		700	PSHF4072	1STQ001574B0000	1/1
E2.2 F	400		900	PSHF4092	1STQ001575B0000	1/1
E2.2 W	400		700	PSHW4072	1STQ001576B0000	1/1
E2.2 W	400		900	PSHW4092	1STQ001577B0000	1/1

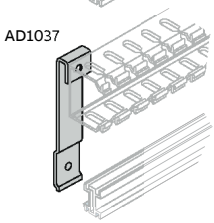


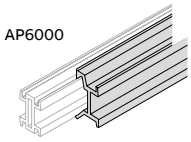
• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Order codes - Internal kits





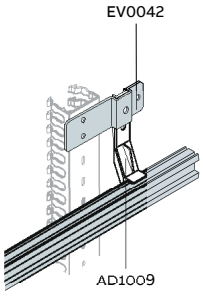


DIN rail accessories

With fixed frame for panels, maximum wiring ducts dimension is 60x60mm.

Description	Type	Order code	Pkg/ No. pcs
Supports for horizontal wiring ducts			
No.4 plastic supports for horizontal wiring ducts	AD1009*	1STQ008200A0000	1/4
No.4 plastic supports for horizontal wiring ducts	AD1037*	1STQ008201A0000	1/4
No.4 metal supports reduced wiring ducts	PSRM1515**	1STQ009164A0000	1/4
Depth adapter			
Depth adapter for Tmax T1-T2-T3-XT1-XT3 W=600mm	AP6000	1STQ008202A0000	1/1

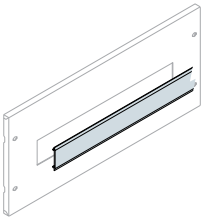
* To be used in case of not segregated DIN rail with panels H≥200mm.
** To be used in case of DIN rail with panels H=300mm (2 DIN rail) or always in case of segregated DIN rail.



Din rail and support for cable duct

With fixed frame for panels, maximum wiring ducts dimension is 60x60mm.

Description	Type	Order code	Pkg/ No. pcs
No.4 horizontal/vertical support for cable duct	EV0042	1STQ006589A0000	1/4
No. 4 plastic supports for horizontal wiring ducts	AD1009	1STQ008200A0000	1/4



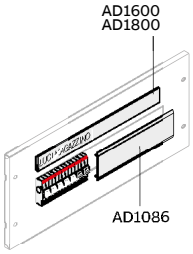
Holes covering strip RAL7035 colour

Description	Type	Order code	Pkg/ No. pcs
No. 10 hole covers W=2000mm, grey	AD1086	1STQ009173A0000	1/10

• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Internal kits

Codici per l'ordinazione - Accessori e ricambi

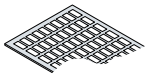


Panel Accessories

Description	Type	Order code	Pkg/ No. pcs
No. 20 label holders 24 DIN mod	AD1600	1STQ008205A0000	1/20
No. 20 label holders 36 DIN mod	AD1800	1STQ008206A0000	1/20
No.10 hole covers W=2000mm, grey	AD1086	1STQ009173A0000	1/10
No. 288 labels 1 DIN mod. 15x17mm (HxW)	AD1101*	1STQ008207A0000	1/288
No. 192 labels 2 DIN mod. 15x27mm (HxW)	AD1102*	1STQ008208A0000	1/192
No. 96 labels 3 DIN mod. 15x50mm (HxW)	AD1103*	1STQ008209A0000	1/96
No. 96 labels 4 DIN mod. 15x67mm (HxW)	AD1104*	1STQ008210A0000	1/96

* labels can be written using compatible Grafoplast system.

AD1101÷AD1104

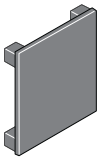




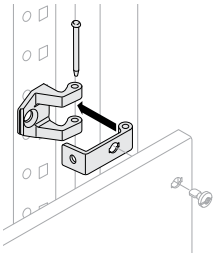
EV1137

Closing plug for instrument holder panels

Description	Type	Order code	Pkg/ No. pcs
No.10 closing plug for instrument holder panels 72x72mm	EV1135	1STQ001023A0000	1/10
No.5 closing plug for instrument holder panels 96x96mm	EV1136	1STQ001024A0000	1/5
No.50 closing plugs for pushbuttons Ø22mm	EV1137	1STQ001025A0000	1/50



EV1135
EV1136



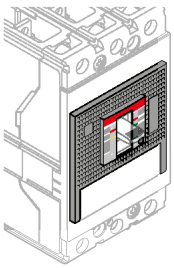
Hinges for panels

Hinges kit for panels (blind, instruments, recessed and vented panels). Not suitable for blind panels H=1800/2000mm.

Description	Type	Order code	Pkg/ No. pcs
No. 20 hinges for frontal panels	PHFP0020	1STQ008111A0000	1/20

For the mounting of the internal panels order the fixed PFPF.... or swing PFPS.... dedicated frame

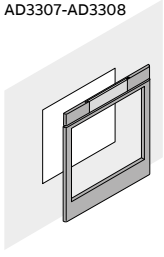
AD3301-AD3302
AD3303-AD3304



Spare parts Tmax XT cover plate for DIN rail

Description	Type	Order code	Pkg/ No. pcs
Cover plate for Tmax XT1 3P mounted on DIN rail	AD3301	1STQ008301A0000	1/1
Cover plate for Tmax XT1 4P mounted on DIN rail	AD3302	1STQ008302A0000	1/1
Cover plate for Tmax XT3 3P mounted on DIN rail	AD3303	1STQ008303A0000	1/1
Cover plate for Tmax XT3 4P mounted on DIN rail	AD3304	1STQ008304A0000	1/1
Cover for panel XT1 3P mounted on plate	AD3305	1STQ009216A0000	1/1
Cover for panel XT2 3P mounted on plate	AD3306	1STQ009217A0000	1/1
Cover for panel XT3 3P mounted on plate	AD3307	1STQ009218A0000	1/1
Cover for panel XT4 3P mounted on plate	AD3308	1STQ009219A0000	1/1

AD3305-AD3306
AD3307-AD3308



• Quick selection guides page **3**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Chapter 4
Main distribution systems

4–2 **General information**

4–6 **Selection tables**

4–8 **Example of use**

4–12 **Selection guides**

4–32 **Guide to the order codes**

4–33 **Order codes**

Main distribution systems
General information

The distribution systems that can be used inside System pro E power switchboards meet the requirements of all applications, with 250A to 6300A configurations.

—
01 The crosspieces that fix to the structure are for universal use for both linear and scaled busbar holders.
—
02 The linear and scaled insulating supports house 5mm flat busbar systems on one side, while the other side houses shaped profile or 10mm section flat busbar systems.
—
03 One single tie rod in different lengths is used to fasten all types of busbars.

The new System pro E power distribution system has been designed for improved flexibility and simple busbar connections.
Linear and scaled solutions are available and allow the busbars to be installed in any position: horizontally, under the top, on the bottom and at each height; vertically, along the side or at the rear and in the cable compartment. The structural components include:

- insulating support and tie rods
- crosspieces and brackets

The main advantages are:

- same construction philosophy for 250A to 6300A applications
- same multifunction insulating supports able to house flat busbars 5 and 10mm thick and shaped busbars (“click in” installation method for the linear version)
- the center distance between phases can be increased for the linear version by simply sliding the insulation support fastenings along the crosspieces
- same fixing crosspieces for both linear and scaled solutions
- stainless steel crosspieces for applications with In ≥ at 4000A to limit the effect of stray currents

The main advantages are:

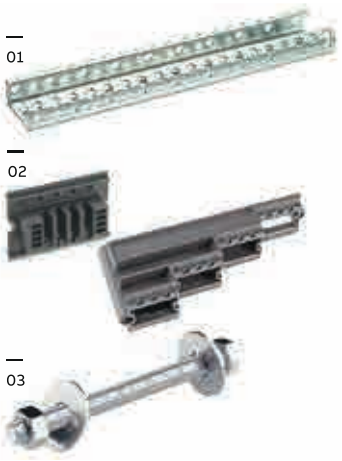
- flat copper busbars up to 6300A
- shaped profile busbars up to 2500A

Air and moulded-case circuit-breakers can be connected to the busbars by means of prefabricated rigid or flexible connections.

Number of busbars installable per insulator

	Linear System		Scaled System	
Flat busbars	1,2,3 or 4 bars per phase	50mm block 2000A	1,2,3 or 4 bars per phase	2000A
		75mm block 3200A		
		100mm block 6300A		
Shaped busbars	1 per phase	50mm block 1600A	1 per phase	1600A
		75mm block 2000A		
		75mm block 2500A		





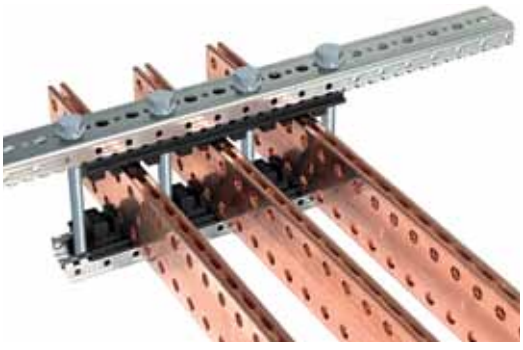


The linear busbar holder is formed by inserting, with a “click”, the insulating supports onto the crosspieces, which are fixed directly inside the switchboard by means of simple brackets.

LINEAR SYSTEM

The new busbar holder consists of:

- a polyamide insulating support (maximum operating temperature 130 °C) featuring shaped grooves for the busbars and pins for fixing to the crosspieces, able to house both flat and shaped profile busbars;
- crosspieces available in different lengths, made of hot-dip galvanized steel sheet for In <4000A current values or crosspieces in AISI 304 stainless steel for In ≥4000A current values.

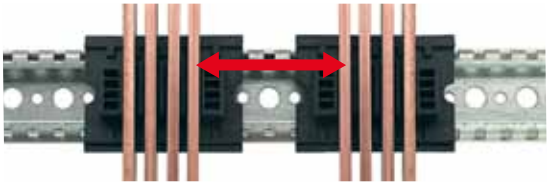


The crosspiece is an integral part of the busbar holder and is fixed directly inside the cubicle with the purpose-made brackets.
In addition, it can also be used as a universal crosspiece thanks to 5.5mm diameter round holes on the side and 10mm diameter holes for fixing the cage nuts.

Lastly, the crosspieces can be coupled on the external side to make the busbar system sturdier. Since the insulating supports are modular, the center distance between the phases can be increased by spacing them at a 12.5mm pitch.

The tie rods that fix the insulating supports are made of steel (for In < 4000A current values). They are available in four different lenght according to the busbars' crossection installed.
The AISI 304 stainless steel tie rods (for In ≥4000A current values) are available for 120mm, 160mm and 200mm busbars.

The linear system can house flat busbars (5 and 10mm thick) and shaped profile busbars in copper.



The center distance between phases can be increased by 12.5mm by simply sliding the insulation supports along the crosspieces. When the distance between phases is increased, the length of the closing crosspiece must also be increased.
For details consult: Chapter 7 - Examples of connections from circuit-breaker towards omnibus busbars

Main distribution systems
General information



—
01 All the insulators are reversible and can house:
5mm and 10mm flat busbars and all shaped profile busbars
—
02 The scaled insulating supports house 5mm flat busbar systems on one side, while the other side houses 10mm flat busbars and all shaped profile busbars.

Advantages

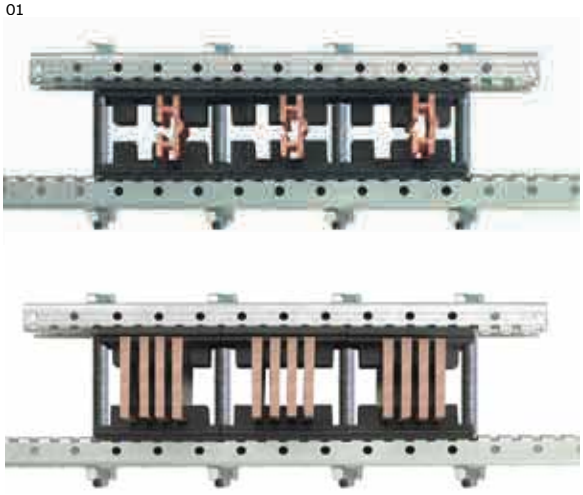
- scalability: structure with modular insulating supports for 3P or 4P
- saving: the 4P system does not always have a full section neutral: the insulating supports allow structures of different sizes or with fewer insulating supports to be created, thus reducing costs.
- modularity: the linear system allows the center distance between the phases to be increased by spacing them at a 12.5mm pitch instead of installing them one against the other.
- sturdiness: the crosspieces can be coupled on the external side to make the busbar system sturdier.

Busbars installable with the insulating supports of the linear system

Length of insulating support	Notes	No. Flat busbars per phase	Slot dimensions	Maximum busbar H	Minimum busbar H
50mm	can house busbars on both sides	1x10mm	12mm slot	120x10	25x10
		2x5mm	9.5mm slot	120x5	20x5
75mm	can house busbars on both sides	2x10mm	12mm slot	120x10	25x10
		4x5mm	12mm slot	125x5	25x5
100mm	can house busbars on both sides	3x10mm	1mm slot	120x10	25x10
		2x10mm	12mm slot	120x10	25x10

All the shaped busbars can be housed in the insulating supports on a level with the slots for 10mm busbars.

—
01





The scaled busbar holder can house flat busbars up to 2000A or shaped busbars up to 1600A.

SCALED SYSTEM

The insulating support is a single unit that can be screwed onto the crosspiece with the aid of a threaded spacer. The linear system is connected to the distribution busbars with tie rods, which are the same for all types of busbars.

—
02





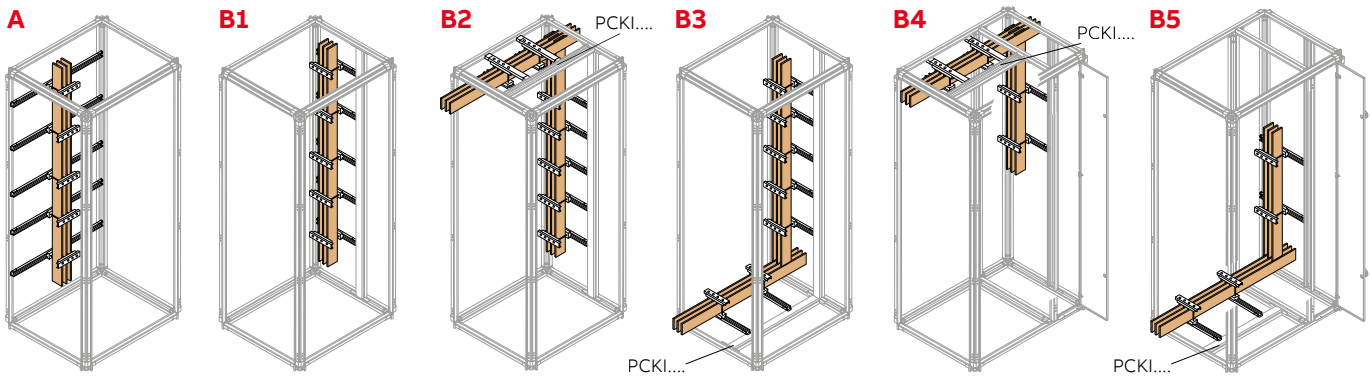
Busbars installable with the insulating supports of the scaled system

Insulating support	Notes	No. Flat busbars per phase	Slot dimensions	Maximum busbar H	Minimum busbar H
One type of insulating support	can house busbars on both side	1x10mm	12mm slot	120x10	30x10
		2x5mm	9.5mm slot	125x5	20x5

All the shaped busbars can be housed in the insulating supports on a level with the slots for 10mm busbars.

Main distribution systems
Selection guides

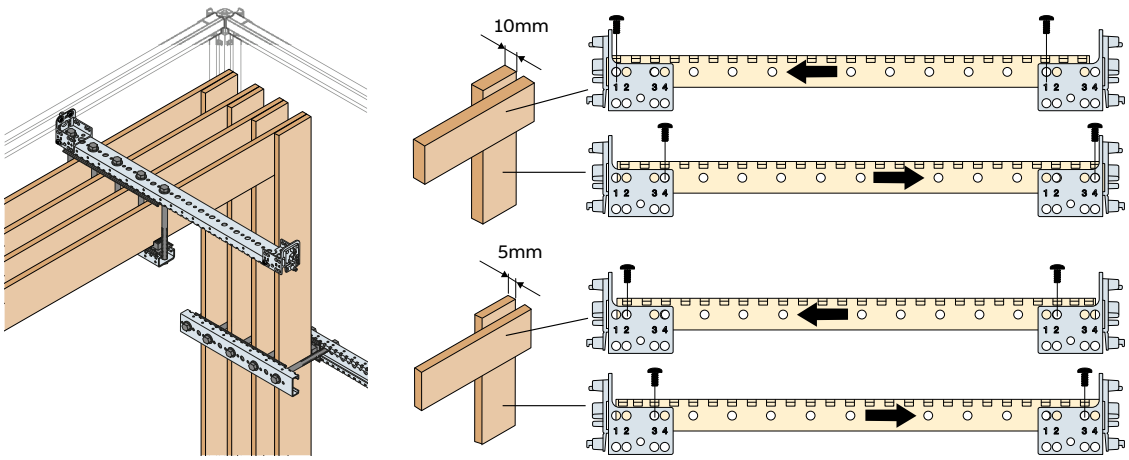
LINEAR SYSTEM - FLAT BU SBARS AND SHAPED BU SBARS
Fixing busbar holders to the structure.

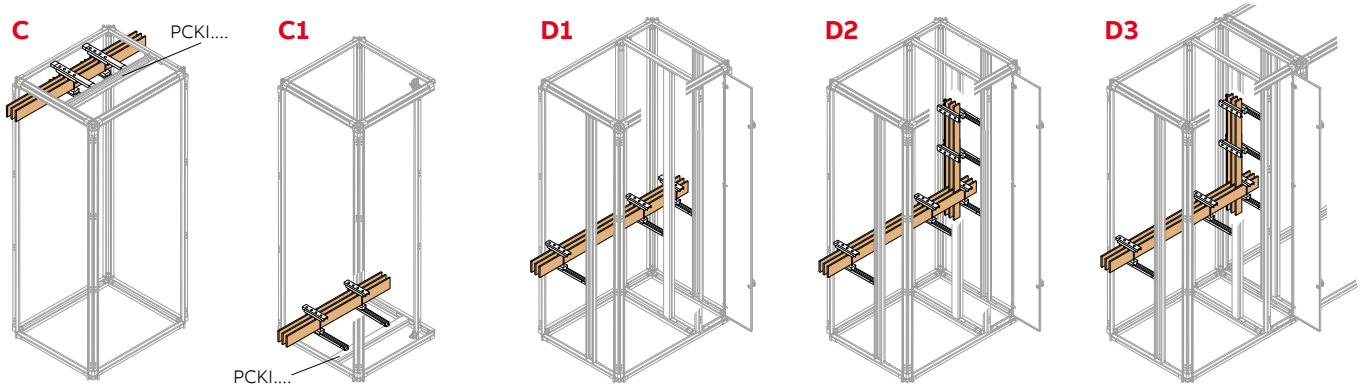


For vertical busbars in structure D>=500mm, the intermediate upright is always necessary

	A - Vertical busbars at the rear of the structure			**B1 - vertical busbars on the side of the structure B2/B3 - vertical busbars with orizontal busbars in the structure under the top/on the bottom B4/B5 - vertical busbars in the cable compartment with orizontal busbars top/bottom [1]**			
	CROSSPIECES FOR BUSBAR HOLDERS (1 piece per busbar holder)						
SUPPORTS FOR FIXING CROSSPIECES TO THE STRUCTURE * (2 pieces per crosspiece)	**Structure W (mm)**	**Crosspiece in galvanized sheet metal**	**Crosspiece in stainless steel for In≥4000A****	**Structure D (mm)**	**Crosspiece in galvanized sheet metal**	**Crosspiece in galvanized sheet metal + interme-diate upright**	**Crosspiece in stainless steel for In≥4000A[5]**	**Crosspiece in stainless steel** for In≥4000A + intermediate upright**
				200	PCRM0188			
	300	PCRM0288		300	PCRM0288			
	400	PCRM0388	PCRS0388					
				500	PCRM0488	PCRM0238		
	600	PCRM0588	PCRS0588					
				700	PCRM0688	PCRM0438		PCRS0438
	800	PCRM0788	PCRS0788					
				900	PCRM0888	PCRM0638	PCRS0888	PCRS0638
	1000	PCRM0988	PCRS0988					
See example page 5/8-5/9	1250	PCRM1238	PCRS1238					

[1] Use busbars with 100x10mm maximum section for structures with internal cable compartment L=200mm with orizontal busbars top/bottom.





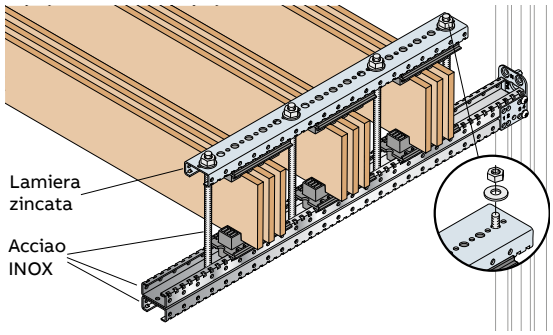
C/C1 - - Horizontal busbars under the top or on the bottom of the structure [2]

D1 - Horizontal busbars at any height of the structure and internal cable compartment
D2 - Vertical busbars in the cable compartment with orizontal busbars in the structure at any hight [3]
D3 - Horizontal busbars at any hight in side by side structures and vertical busbars in the internal cable compartment

Structure D (mm)	Crosspiece in galvanized sheet metal + intermediate crosspiece PCKI....	Crosspiece in stainless steel **[4] + intermediate crosspiece PCKI....	Structure D (mm)	Crosspiece in galvanized sheet metal [5]	Crosspiece in galvanized sheet metal + intermediate upright	Crosspiece in stainless steel **[4]	Crosspiece in stainless steel ** + intermediate upright
			200	PCRM0188			
			300	PCRM0288			
500	PCRM0238		500	PCRM0488	PCRM0238		
700	PCRM0438	PCRS0438	700	PCRM0688	PCRM0438		2xPCRS0438
900	PCRM0638	PCRS0638	900	PCRM0888	PCRM0638	2xPCRS0888	2xPCRS0638

[2] Order crosspieces PCKI.... to assemble busbars under the top or on the bottom, for assembly in D>300mm structures with internal cable compartment, order PCCM.... cable compartment depth crosspieces as well.
[3] Use busbars with 80x10mm maximum section for structures with internal cable compartment L=200mm. With orizontal busbars in the structure at any hight.
[4] Only flat busbars.

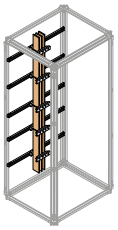
[5] In structures without intermediate upright, swing frame PFPS.... cannot be installed with horizontal busbars at all height.
* The new bracket, PBBU0008 is not compatible with the old ones (PBBT0008, PBBV0008, PBBH0004), on the same busbar system, both horizontal and vertical, it is not possible the coexisting between old and new ones. The fixing of the crosspieces for busbar system must be done with only one kind of bracket.
** In the case of:
- In=4000A with section 120x10/160x10/200x10 busbar system,
- In>4000A to counteract the effect of stray currents.
2 (two) crosspieces are required only for horizontal busbar systems installed at each height D1, D2 and D3.



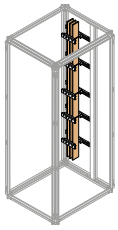
Main distribution systems
Examples of use

LINEAR SYSTEM - FLAT BU SBARS AND SHAPED BU SBARS
Fixing busbar holders to the structure.

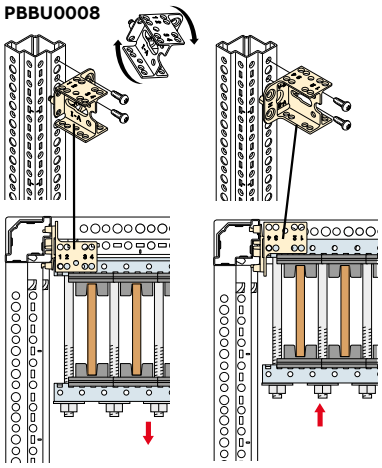
A
Vertical busbars at the rear of the structure



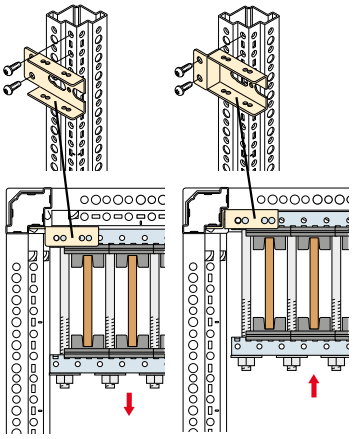
B1
vertical busbars on the side of the structure



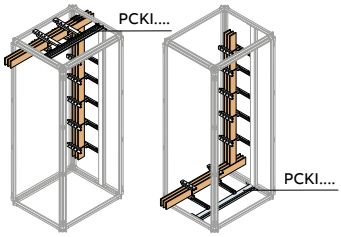
PBBU0008



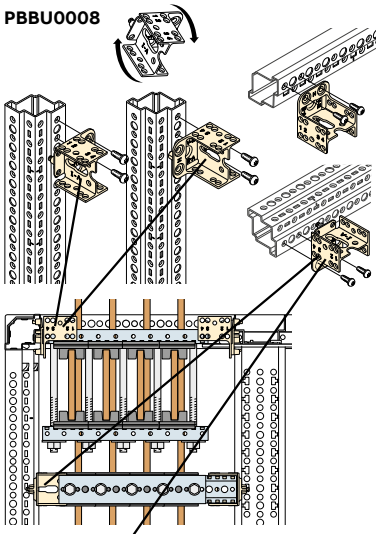
PBBT0008 **PBBV0008**



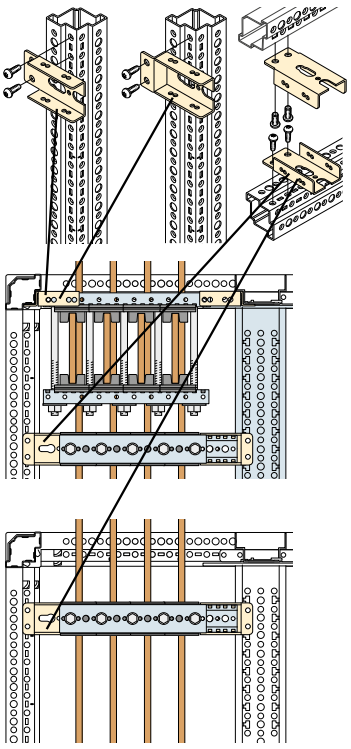
B2/B3
Vertical busbars with orizontal busbars in the structure



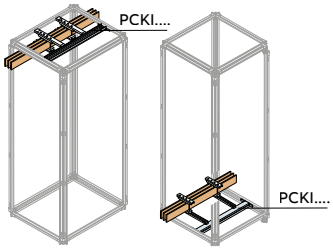
PBBU0008

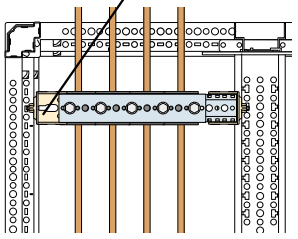


PBBT0008 **PBBV0008** **PBBT0008**

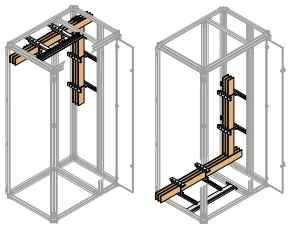


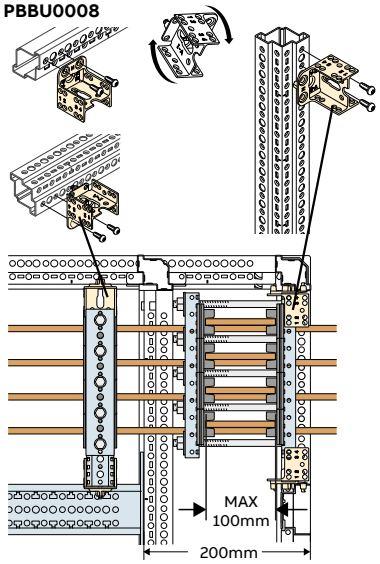
C/C1
Horizontal busbars under the top or on the bottom of the structure

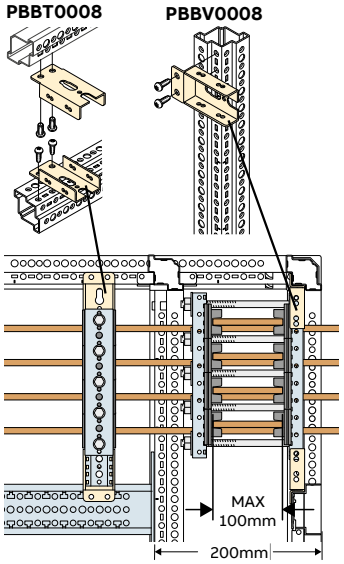




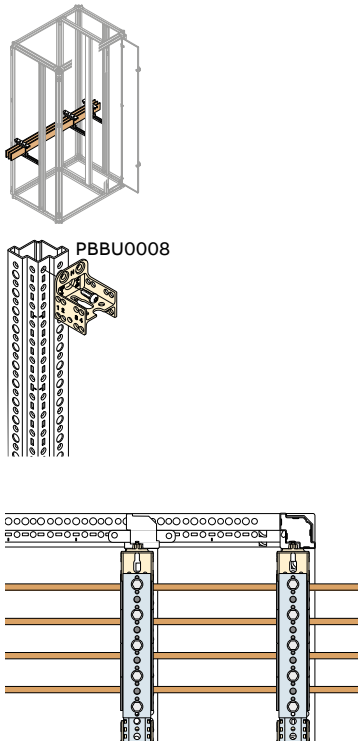
B4/B5
vertical busbars in the cable compartment with orizontal busbars in the structure



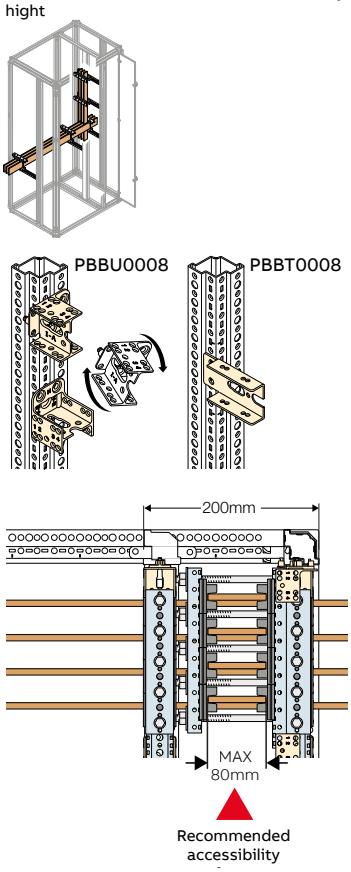




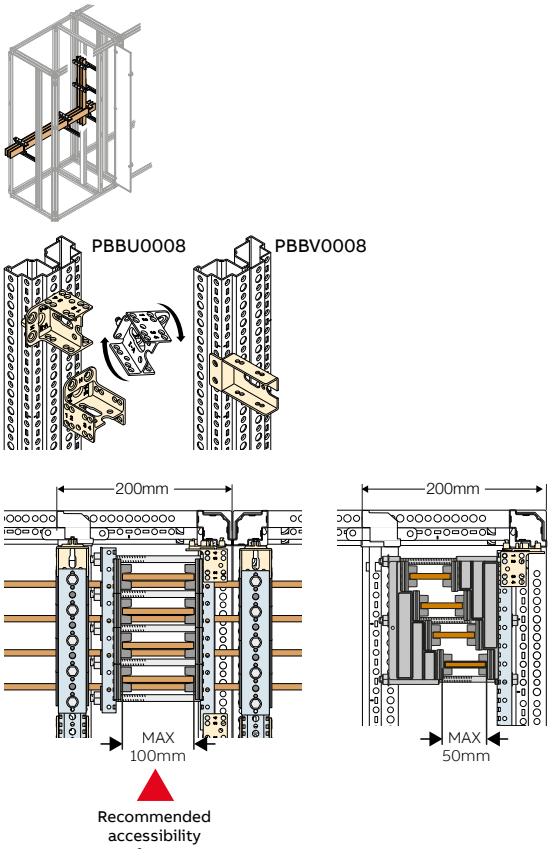
D1
Horizontal busbars at any height of the structure and internal cable compartment



D2
Vertical busbars in the cable compartment with orizontal busbars in the structure at any hight

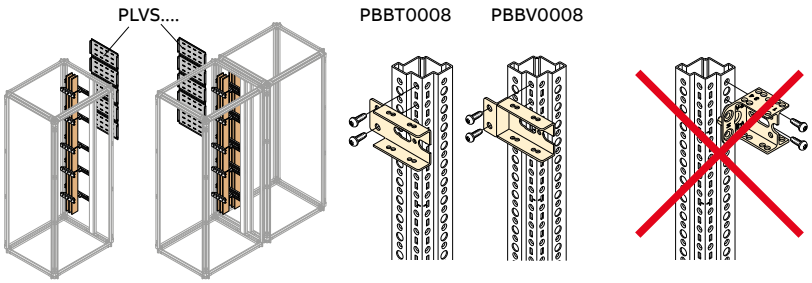


D3
Horizontal busbars at any hight in side by side structures and vertical busbars in the internal cable compartment



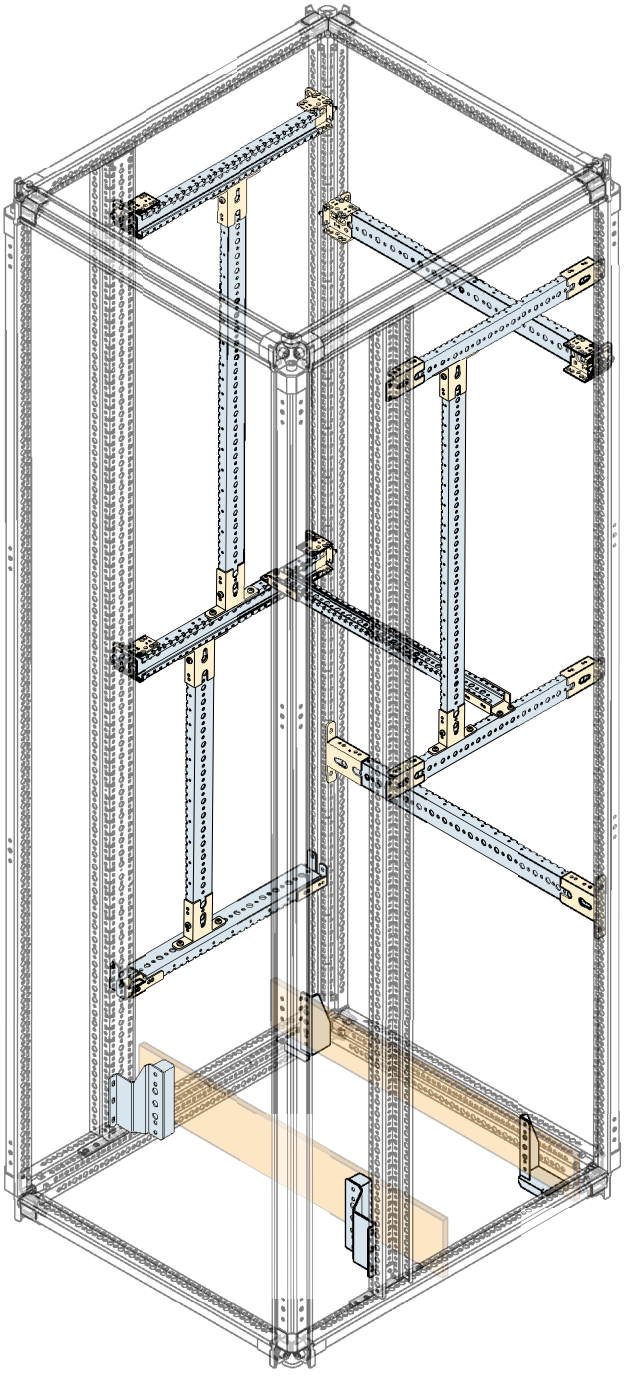
Lateral segregation

Plates PBBT0008 or PBBV0008 must necessarily be used if lateral segregations PLVS...., are used with the busbar system installed at the side.



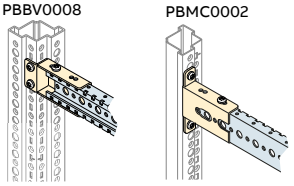
Main distribution systems
Examples of use

Example use of crosspieces

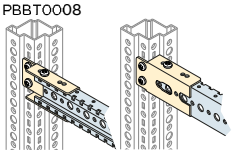


Fixing between uprights and crosspieces

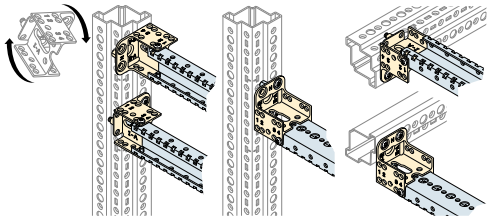
PBBV0008 PBMC0002



PBBT0008

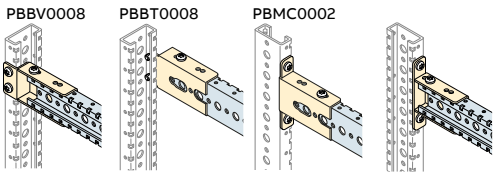


PBBU0008



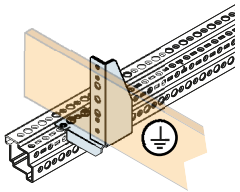
Fixing between crosspieces

PBBV0008 PBBT0008 PBMC0002



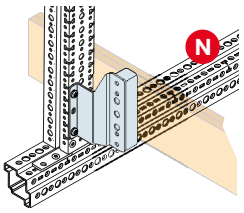
Earth fixing

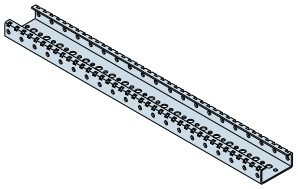
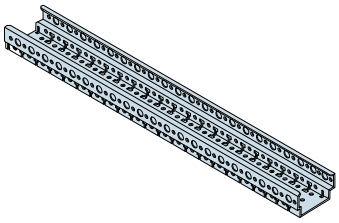
PBRP0002



Neutral fixing

PBRN0002



Description	Enclosure	Length [mm]	To be fitted in the following functional dimensions	Code (No. 2 crosspieces by code)
Crosspieces with “C” profile 	Structure without intermediate upright	188	200	PCRM0188
		288	300	PCRM0288
		388	400	PCRM0388
		488	500	PCRM0488
		588	600	PCRM0588
		688	700	PCRM0688
		788	800	PCRM0788
		888	900	PCRM0888
		988	1000	PCRM0988
		1238	1250	PCRM1238
	Structure with vertical intermediate upright	238	500 with intermediate upright	PCRM0238
		338	600 with intermediate upright	PCRM0338
		438	700 with intermediate upright	PCRM0438
		538	800 with intermediate upright	PCRM0538
		638	900 with intermediate upright	PCRM0638
		738	1000 with intermediate upright	PCRM0738
		1788	1800	PCRM1788
		1988	2000	PCRM1988
	Any type	2013	To be cut according to the need	PCRM2013
Crosspieces with intermediate upright profile 	Any type	300	300	PCKI0300
		400	400	PCKI0400
		600	600	PCKI0600
		800	800	PCKI0800
		1000	1000	PCKI1000
		1250	1250	PCKI1250
		1800	1800	PUKI1800
		2000	2000	PUKI2000

* With the exception of internal cable compartment width; a PCRM.... type of crosspiece must be cut for this application

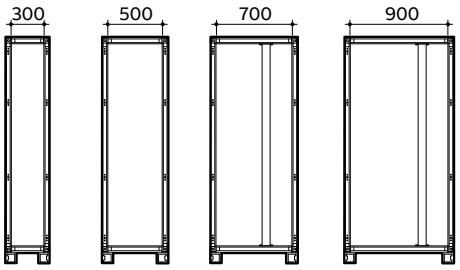
Main distribution systems

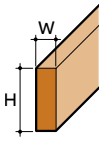
Selection guides

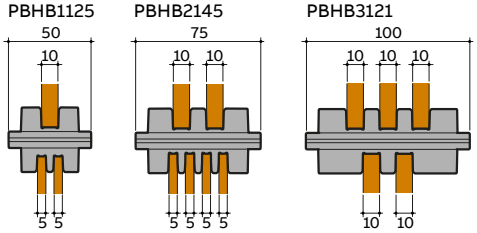
LINEAR SYSTEM - FLAT COPPER BUSBARS, NON-SPACED INSULATORS

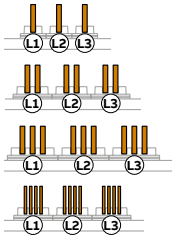
Choice of busbar holders and closing crosspieces in relation to the rated current In (A) and IP protection class.

Structure depth (mm)

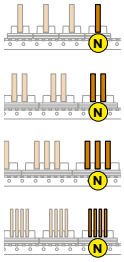




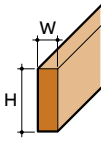




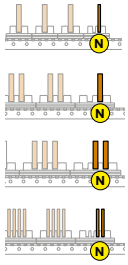
300	500	700	900		Insulators 3 poles 6 pieces 4 poles 8 pieces		Qty Busbar per phase	3 Poles, Busbars L1 L2 L3
Recomended minimum enclosure functional depth 3/4 poles busbar system, insulators in packed configuration				**Section busbar H x W (mm)**	**code**		**No.**	**code**
In (A) IP30/31 Aerated								
292	292	292	292	20X5	PBHB1125		1	3xPBFC2005
365	365	365	365	25X5	PBHB1125		1	3xPBFC2505
467	467	467	467	32X5	PBHB1125		1	3xPBFC3205
584	584	584	584	40X5	PBHB1125		1	3xPBFC4005
730	730	730	730	50X5	PBHB1125		1	3xPBFC5005
788	788	788	788	63X5	PBHB1125		1	3xPBFC6305
876	876	876	876	30X10	PBHB1125		1	3xPBFC3010
1000	1000	1000	1000	80X5	PBHB1125		1	3xPBFC8005
1168	1168	1168	1168	40X10	PBHB1125		1	3xPBFC4010
1168	1168	1168	1168	40X5	PBHB1125		2	6xPBFC4005
1460	1460	1460	1460	50X10	PBHB1125		1	3xPBFC5010
1460	1460	1460	1460	100X5	PBHB1125		1	3xPBFC1005
1600	1600	2000	2000	80X10	PBHB1125		1	3xPBFC8010
1600	1600	2000	2000	80X5	PBHB1125		2	6xPBFC8005
1600	1600	2120	2120	100X5	PBHB1125		2	6xPBFC1005
-	-	2120	2120	50X10	PBHB2145		2	6xPBFC5010
-	-	2400	2400	60X10	PBHB2145		2	6xPBFC6010
-	-	3200	3200	80X10	PBHB2145		2	6xPBFC8010
-	-	3200	3200	80X5	PBHB2145		4	12xPBFC8005
-	-	3200	3900	100X10	PBHB2145		2	6xPBFC1001
-	-	3200	4100	100X5	PBHB2145		4	12xPBFC1005
-	-	3200	4200	120X10	PBHB3121		3	9xPBFC1201
-	-	3200	5600	160X10	PBHB3121		3	9xPBFC1601
-	-	3200	7000	200X10	PBHB3121		3	9xPBFC2001
In (A) IP40/41 Blind & IP65								
250	250	250	250	20X5	PBHB1125		1	3xPBFC2005
313	313	313	313	25X5	PBHB1125		1	3xPBFC2505
400	400	400	400	32X5	PBHB1125		1	3xPBFC3205
500	500	500	500	40X5	PBHB1125		1	3xPBFC4005
625	625	625	625	50X5	PBHB1125		1	3xPBFC5005
713	713	713	713	30X10	PBHB1125		1	3xPBFC3010
788	788	788	788	63X5	PBHB1125		1	3xPBFC6305
950	950	950	950	40X10	PBHB1125		1	3xPBFC4010
950	950	950	950	40X5	PBHB1125		2	6xPBFC4005
1000	1000	1000	1000	80X5	PBHB1125		1	3xPBFC8005
1188	1188	1188	1188	50X10	PBHB1125		1	3xPBFC5010
1250	1250	1250	1250	100X5	PBHB1125		1	3xPBFC1005
1600	1600	1900	1900	80X10	PBHB1125		1	3xPBFC8010
1600	1600	1900	1900	100X10	PBHB1125		1	3xPBFC1001
1600	1600	1900	1900	80X5	PBHB1125		2	6xPBFC8005
1600	1600	1900	1900	100X5	PBHB1125		2	6xPBFC1005
-	-	1875	1875	50X10	PBHB2145		2	6xPBFC5010
-	-	2250	2250	60X10	PBHB2145		2	6xPBFC6010
-	-	2500	2720	80X5	PBHB2145		4	12xPBFC8005
-	-	2500	3000	80X10	PBHB2145		2	6xPBFC8010
-	-	2500	3400	100X10	PBHB2145		2	6xPBFC1001
-	-	2500	3400	100X5	PBHB2145		4	12xPBFC1005
-	-	2500	4052	120X10	PBHB3121		3	9xPBFC1201

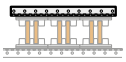


4 Poles
Busbar for N at 100%

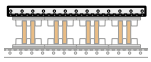


4 Poles
Busbar for N at 50%

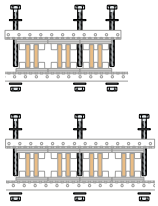




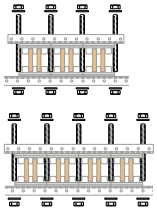
Closing crosspiece
3-pole busbar
holders 1 piece



Closing crosspiece
4-pole busbar
holders 1 piece



Tie rods steel
3 poles 3 pieces
4 poles 3 pieces



Tie rods in AISI 304
stainless steel
3 poles 4 pieces
4 poles 5 pieces

Qty Busbar No.	code	Section busbar H x W (mm)	Qty Busbar No.	code	code	code	code	code
No.	1xPBFC2005	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBFC2505	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBFC3205	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBFC4005	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBFC5005	-	-	-	PCRM0188	PCRM0238	PTRA0075	-
1	1xPBFC6305	-	-	-	PCRM0188	PCRM0238	PTRA0075	-
1	1xPBFC3010	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBFC8005	-	-	-	PCRM0188	PCRM0238	PTRA0100	-
1	1xPBFC4010	40X5	1	1xPBFC4005	PCRM0188	PCRM0238	PTRA0045	-
2	2xPBFC4005	40X5	1	1xPBFC4005	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBFC5010	50X5	1	1xPBFC5005	PCRM0188	PCRM0238	PTRA0075	-
1	1xPBFC1005	-	-	-	PCRM0188	PCRM0238	PTRA0100	-
1	1xPBFC8010	80X5	1	1xPBFC8005	PCRM0188	PCRM0238	PTRA0100	-
2	2xPBFC8005	-	-	-	PCRM0188	PCRM0238	PTRA0100	-
2	2xPBFC1005	100X5	1	1xPBFC1005	PCRM0188	PCRM0238	PTRA0100	-
2	2xPBFC5010	50X10	1	1xPBFC5010	PCRM0288	PCRM0338	PTRA0075	-
2	2xPBFC6010	60X10	1	1xPBFC6010	PCRM0288	PCRM0338	PTRA0075	-
2	2xPBFC8010	80X10	1	1xPBFC8010	PCRM0288	PCRM0338	PTRA0100	-
4	4xPBFC8005	80X5	2	1xPBFC8005	PCRM0288	PCRM0338	PTRA0100	-
2	2xPBFC1001	100X10	1	1xPBFC1001	PCRM0288	PCRM0338	PTRA0100	-
4	4xPBFC1005	100X5	2	2xPBFC1005	PCRM0288	PCRM0338	PTRA0100	-
3	3xPBFC1201	120X10	2	2xPBFC1201	PCRS0338	PCRS0438	-	PTRS 1201
3	3xPBFC1601	160X10	2	2xPBFC1601	PCRS0338	PCRS0438	-	PTRS1601
3	3xPBFC2001	200X10	2	2xPBFC2001	PCRS0338	PCRS0438	-	PTRS2001
1	1xPBFC2005	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBFC2505	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBFC3205	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBFC4005	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBFC5005	-	-	-	PCRM0188	PCRM0238	PTRA0075	-
1	1xPBFC3010	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBFC6305	-	-	-	PCRM0188	PCRM0238	PTRA0075	-
1	1xPBFC4010	40X5	1	1xPBFC4005	PCRM0188	PCRM0238	PTRA0045	-
2	2xPBFC4005	40X5	1	1xPBFC4005	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBFC8005	-	-	-	PCRM0188	PCRM0238	PTRA0100	-
1	1xPBFC5010	50X5	1	1xPBFC5005	PCRM0188	PCRM0238	PTRA0075	-
1	1xPBFC1005	-	-	-	PCRM0188	PCRM0238	PTRA0100	-
1	1xPBFC8010	80X5	1	1xPBFC8005	PCRM0188	PCRM0238	PTRA0100	-
1	1xPBFC1001	100X5	1	1xPBFC1005	PCRM0188	PCRM0238	PTRA0100	-
2	2xPBFC8005	-	-	-	PCRM0188	PCRM0238	PTRA0100	-
2	2xPBFC1005	100X5	1	1xPBFC1005	PCRM0188	PCRM0238	PTRA0100	-
2	2xPBFC5010	50X10	1	1xPBFC5010	PCRM0288	PCRM0338	PTRA0075	-
2	2xPBFC6010	60X10	1	1xPBFC6010	PCRM0288	PCRM0338	PTRA0075	-
4	4xPBFC8005	80X5	2	2xPBFC8005	PCRM0288	PCRM0338	PTRA0100	-
2	2xPBFC8010	80X10	1	1xPBFC8010	PCRM0288	PCRM0338	PTRA0100	-
2	2xPBFC1001	100X10	1	1xPBFC1001	PCRM0288	PCRM0338	PTRA0100	-
4	4xPBFC1005	100X5	2	2xPBFC1005	PCRM0288	PCRM0338	PTRA0100	-
3	3xPBFC1201	120X10	2	2xPBFC1201	PCRS0338	PCRS0438	-	PTRS 1201

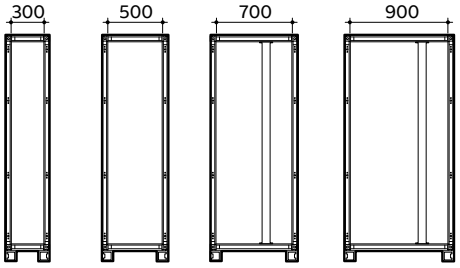
Main distribution systems

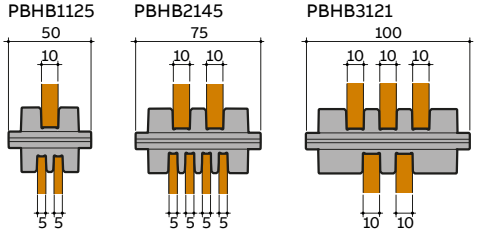
Selection guides

LINEAR SYSTEM - FLAT COPPER BUSBARS, SPACED INSULATORS

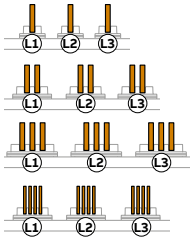
Choice of busbar holders and closing crosspieces in relation to the rated current In (A) and IP protection class.

Structure depth (mm)





Insulators
3 poles 6 pieces
4 poles 8 pieces

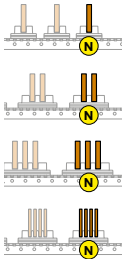


Qty Busbar per phase

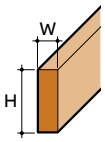
3 Poles, Busbars L1 L2 L3

300	500	700	900				
Recomended minimum enclosure functional depth 3/4 poles busbar system, insulators in spaced configuration [4]				**Section busbar H x W (mm)**	**code**	**No.**	**code**
In (A) IP30/31 Aerated							
292 [1]	292 [1]	292	292	20X5	PBHB1125	1	3xPBFC2005
365 [1]	365 [1]	365	365	25X5	PBHB1125	1	3xPBFC2505
467 [1]	467 [1]	467	467	32X5	PBHB1125	1	3xPBFC3205
584 [1]	584 [1]	584	584	40X5	PBHB1125	1	3xPBFC4005
730 [1]	730 [1]	730	730	50X5	PBHB1125	1	3xPBFC5005
788 [1]	788 [1]	788	788	63X5	PBHB1125	1	3xPBFC6305
876 [1]	876 [1]	876	876	30X10	PBHB1125	1	3xPBFC3010
1000 [1]	1000 [1]	1000	1000	80X5	PBHB1125	1	3xPBFC8005
1168 [1]	1168 [1]	1168	1168	40X10	PBHB1125	1	3xPBFC4010
1168 [1]	1168 [1]	1168	1168	40X5	PBHB1125	2	6xPBFC4005
1460 [1]	1460 [1]	1460	1460	50X10	PBHB1125	1	3xPBFC5010
1460 [1]	1460 [1]	1460	1460	100x5	PBHB1125	1	3xPBFC1005
1600 [1]	1600 [1]	2000	2000	80X10	PBHB1125	1	3xPBFC8010
1600 [1]	1600 [1]	2000	2000	80X5	PBHB1125	2	6xPBFC8005
1600 [1]	1600 [1]	2120	2120	100X5	PBHB1125	2	6xPBFC1005
-	-	2120	2120	50X10	PBHB2145	2	6xPBFC5010
-	-	2400	2400	60X10	PBHB2145	2	6xPBFC6010
-	-	3200	3200	80X10	PBHB2145	2	6xPBFC8010
-	-	3200	3200	80X5	PBHB2145	4	12xPBFC8005
-	-	3200 [1]	3900	100X10	PBHB2145	2	6xPBFC1001
-	-	3200 [1]	4100	100X5	PBHB2145	4	12xPBFC1005
-	-	3200 [1]	4200	120X10	PBHB3121	3	9xPBFC1201
-	-	3200 [1]	5600	160X10	PBHB3121	3	9xPBFC1601
-	-	3200 [1]	7000	200X10	PBHB3121	3	9xPBFC2001
In (A) IP40/41 Blind & IP65							
250 [1]	250 [1]	250	250	20X5	PBHB1125	1	3xPBFC2005
313 [1]	313 [1]	313	313	25X5	PBHB1125	1	3xPBFC2505
400 [1]	400 [1]	400	400	32X5	PBHB1125	1	3xPBFC3205
500 [1]	500 [1]	500	500	40X5	PBHB1125	1	3xPBFC4005
625 [1]	625 [1]	625	625	50X5	PBHB1125	1	3xPBFC5005
713 [1]	713 [1]	713	713	30X10	PBHB1125	1	3xPBFC3010
788 [1]	788 [1]	788	788	63X5	PBHB1125	1	3xPBFC6305
950 [1]	950 [1]	950	950	40X10	PBHB1125	1	3xPBFC4010
950 [1]	950 [1]	950	950	40X5	PBHB1125	2	6xPBFC4005
1000 [1]	1000 [1]	1000	1000	80X5	PBHB1125	1	3xPBFC8005
1188 [1]	1188 [1]	1188	1188	50X10	PBHB1125	1	3xPBFC5010
1250 [1]	1250 [1]	1250	1250	100x5	PBHB1125	1	3xPBFC1005
1600 [1]	1600 [1]	1900	1900	80X10	PBHB1125	1	3xPBFC8010
1600 [1]	1600 [1]	1900	1900	100X10	PBHB1125	1	3xPBFC1001
1600 [1]	1600 [1]	1900	1900	80X5	PBHB1125	2	6xPBFC8005
1600 [1]	1600 [1]	1900	1900	100X5	PBHB1125	2	6xPBFC1005
-	-	1875	1875	50X10	PBHB2145	2	6xPBFC5010
-	-	2250	2250	60X10	PBHB2145	2	6xPBFC6010
-	-	2500	2720	80X5	PBHB2145	4	12xPBFC8005
-	-	2500	3000	80X10	PBHB2145	2	6xPBFC8010
-	-	2500	3400	100X10	PBHB2145	2	6xPBFC1001
-	-	2500	3400	100X5	PBHB2145	4	12xPBFC1005
-	-	2500 [1]	4052	120X10	PBHB3121	3	9xPBFC1201

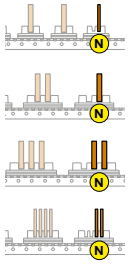
[1] only 3 poles configuration fits, 4 poles does not fit. [2] only for In below 4000A otherwise use PCRS0338. [3] only for In below 4000A otherwise use PCRS0438.
[4] Insulator clearances pag 4-24.

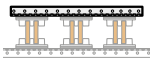


4 Poles
Busbar for N at 100%

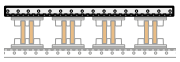


4 Poles
Busbar for N at 50%

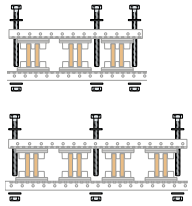




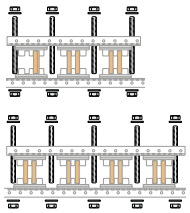
Closing crosspiece
3-pole busbar
holders 1 piece



Closing crosspiece
4-pole busbar
holders 1 piece



Tie rods steel
3 poles 3 pieces
4 poles 3 pieces



Tie rods in AISI 304
stainless steel
3 poles 4 pieces
4 poles 5 pieces

Qty Busbar No.	code	Section busbar H x W (mm)	Qty Busbar No.	code	code	code	code	code
1	PCRM0238	-	-	1xPBFC2005	-	PCRM0338	PTRA0045	-
1	PCRM0238	-	-	1xPBFC2505	-	PCRM0338	PTRA0045	-
1	PCRM0238	-	-	1xPBFC3205	-	PCRM0338	PTRA0045	-
1	PCRM0238	-	-	1xPBFC4005	-	PCRM0338	PTRA0045	-
1	PCRM0238	-	-	1xPBFC5005	-	PCRM0338	PTRA0075	-
1	PCRM0238	-	-	1xPBFC6305	-	PCRM0338	PTRA0075	-
1	PCRM0238	-	-	1xPBFC3010	-	PCRM0338	PTRA0045	-
1	PCRM0238	-	-	1xPBFC8005	-	PCRM0338	PTRA0100	-
1	PCRM0238	40X5	1	1xPBFC4010	1xPBFC4005	PCRM0338	PTRA0045	-
2	PCRM0238	40X5	1	2xPBFC4005	1xPBFC4005	PCRM0338	PTRA0045	-
1	PCRM0238	50X5	1	1xPBFC5010	1xPBFC5005	PCRM0338	PTRA0075	-
1	PCRM0238	-	-	1xPBFC1005	-	PCRM0338	PTRA0100	-
1	PCRM0238	80X5	1	1xPBFC8010	1xPBFC8005	PCRM0338	PTRA0100	-
2	PCRM0238	-	-	2xPBFC8005	-	PCRM0338	PTRA0100	-
2	PCRM0238	100X5	1	2xPBFC1005	1xPBFC1005	PCRM0338	PTRA0100	-
2	PCRM0338	50X10	1	2xPBFC5010	1xPBFC5010	PCRM0438	PTRA0075	-
2	PCRM0338	60X10	1	2xPBFC6010	1xPBFC6010	PCRM0438	PTRA0075	-
2	PCRM0338	80X10	1	2xPBFC8010	1xPBFC8010	PCRM0438	PTRA0100	-
4	PCRM0338	80X5	2	4xPBFC8005	1xPBFC8005	PCRM0438	PTRA0100	-
2	PCRM0338	100X10	1	2xPBFC1001	1xPBFC1001	PCRM0438	PTRA0100	-
4	PCRM0338 [2]	100X5	2	4xPBFC1005	2xPBFC1005	PCRM0438	PTRA0100	-
3	PCRM0438 [3]	120X10	2	3xPBFC1201	2xPBFC1201	PCRS0588	-	PTRS 1201
3	PCRM0438 [3]	160X10	2	3xPBFC1601	2xPBFC1601	PCRS0588	-	PTRS1601
3	PCRM0438 [3]	200X10	2	3xPBFC2001	2xPBFC2001	PCRS0588	-	PTRS2001

1	PCRM0238	-	-	1xPBFC2005	-	PCRM0338	PTRA0045	-
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1	PCRM0238	-	-	1xPBFC3205	-	PCRM0338	PTRA0045	-
1	PCRM0238	-	-	1xPBFC4005	-	PCRM0338	PTRA0045	-
1	PCRM0238	-	-	1xPBFC5005	-	PCRM0338	PTRA0075	-
1	PCRM0238	-	-	1xPBFC3010	-	PCRM0338	PTRA0045	-
1	PCRM0238	-	-	1xPBFC6305	-	PCRM0338	PTRA0075	-
1	PCRM0238	40X5	1	1xPBFC4010	1xPBFC4005	PCRM0338	PTRA0045	-
2	PCRM0238	40X5	1	2xPBFC4005	1xPBFC4005	PCRM0338	PTRA0045	-
1	PCRM0238	-	-	1xPBFC8005	-	PCRM0338	PTRA0100	-
1	PCRM0238	50X5	1	1xPBFC5010	1xPBFC5005	PCRM0338	PTRA0075	-
1	PCRM0238	-	-	1xPBFC1005	-	PCRM0338	PTRA0100	-
1	PCRM0238	80X5	1	1xPBFC8010	1xPBFC8005	PCRM0338	PTRA0100	-
1	PCRM0238	100X5	1	1xPBFC1001	1xPBFC1005	PCRM0338	PTRA0100	-
2	PCRM0238	-	-	2xPBFC8005	-	PCRM0338	PTRA0100	-
2	PCRM0238	100X5	1	2xPBFC1005	1xPBFC1005	PCRM0338	PTRA0100	-
2	PCRM0338	50X10	1	2xPBFC5010	1xPBFC5010	PCRM0438	PTRA0075	-
2	PCRM0338	60X10	1	2xPBFC6010	1xPBFC6010	PCRM0438	PTRA0075	-
4	PCRM0338	80X5	2	4xPBFC8005	2xPBFC8005	PCRM0438	PTRA0100	-
2	PCRM0338	80X10	1	2xPBFC8010	1xPBFC8010	PCRM0438	PTRA0100	-
2	PCRM0338	100X10	1	2xPBFC1001	1xPBFC1001	PCRM0438	PTRA0100	-
4	PCRM0338	100X5	2	4xPBFC1005	2xPBFC1005	PCRM0438	PTRA0100	-
3	PCRM0438 [3]	120X10	2	3xPBFC1201	2xPBFC1201	PCRS0588	-	PTRS 1201

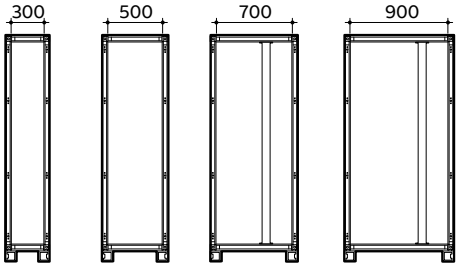
Main distribution systems

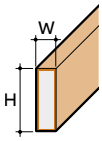
Selection guides

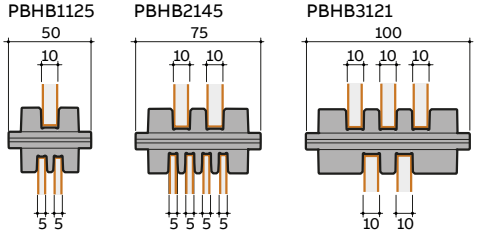
LINEAR SYSTEM - CUPONAL FLAT COPPER BUSBARS, NON-SPACED INSULATORS

Choice of busbar holders and closing crosspieces in relation to the rated current In (A) and IP protection class.

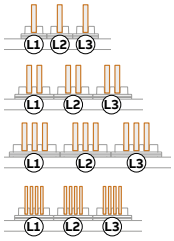
Structure depth (mm)







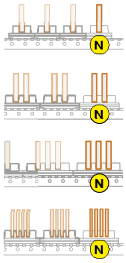
Insulators
3 poles 6 pieces
4 poles 8 pieces

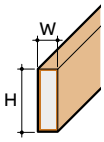


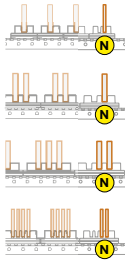
Qty Busbar per phase

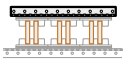
3 Poles, Busbars L1 L2 L3

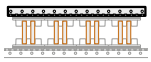
300	500	700	900				
Recomended minimum enclosure functional depth 3/4 poles busbar system, insulators in packed configuration				**Section busbar H x W (mm)**	**code**	**No.**	**code**
In (A) IP30/31 Aerated							
250	250	250	250	20x5	PBHB1125	1	3xPFBA2005
400	400	400	400	30x5	PBHB1125	1	3xPFBA3005
630	630	630	630	50x5	PBHB1125	1	3xPFBA5005
800	800	800	800	40x10	PBHB1125	1	3xPFBA4010
1000	1000	1000	1000	50x10	PBHB1125	1	3xPFBA5010
1000	1000	1000	1000	40x5	PBHB1125	2	6xPFBA4005
1250	1250	1250	1250	75x10	PBHB1125	1	3xPFBA7510
1250	1250	1250	1250	60x5	PBHB1125	2	6xPFBA6005
1600	1600	1600	1600	80x5	PBHB1125	2	6xPFBA8005
1600	1600	2000	2000	120x10	PBHB1125	1	3xPFBA1201
-	-	2000	2000	50x5	PBHB2145	4	12xPFBA5005
-	-	2500	2500	80x10	PBHB2145	2	6xPFBA8010
-	-	2500	2500	80x5	PBHB2145	4	12xPFBA8005
-	-	3200	3200	120x10	PBHB2145	2	6xPFBA1201
In (A) IP40/41 Blind & IP65							
250	250	250	250	25x5	PBHB1125	1	3xPFBA2505
400	400	400	400	40x5	PBHB1125	1	3xPFBA4005
630	630	630	630	60x5	PBHB1125	1	3xPFBA6005
800	800	800	800	80x5	PBHB1125	1	3xPFBA8005
1000	1000	1000	1000	50x5	PBHB1125	2	6xPFBA5005
1250	1250	1250	1250	80x10	PBHB1125	1	3xPFBA8010
1600	1600	1600	1600	100x10	PBHB1125	1	3xPFBA1001
-	-	2000	2000	75x10	PBHB2145	2	6xPFBA7510
-	-	2500	2500	100x10	PBHB2145	2	6xPFBA1001
-	-	2500	3200	100x10	PBHB3121	3	9xPFBA1001

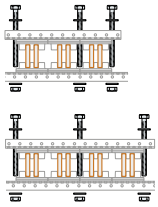












4 Poles Busbar for N at 100%		4 Poles Busbar for N at 50%			Closing crosspiece 3-pole busbar holders 1 piece	Closing crosspiece 4-pole busbar holders 1 piece	Tie rods steel 3 poles 3 pieces 4 poles 3 pieces	Tie rods in AISI 304 stainless steel 3 poles 4 pieces 4 poles 5 pieces
Qty Busbar No.	code	Section busbar H x W (mm)	Qty Busbar No.	code	code	code	code	code
1	1xPFBA2005	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPFBA3005	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPFBA5005	-	-	-	PCRM0188	PCRM0238	PTRA0075	-
1	1xPFBA4010	40x5	1	1xPBFA4005	PCRM0188	PCRM0238	PTRA0045	-
1	1xPFBA5010	50x5	1	1xPBFA5005	PCRM0188	PCRM0238	PTRA0075	-
2	2xPFBA4005	40x5	1	1xPBFA4005	PCRM0188	PCRM0238	PTRA0045	-
1	1xPFBA7510	-	-	-	PCRM0188	PCRM0238	PTRA0075	-
2	2xPFBA6005	60x5	1	1xPBFA6005	PCRM0188	PCRM0238	PTRA0075	-
2	2xPFBA8005	80x5	1	1xPBFA8005	PCRM0188	PCRM0238	PTRA0100	-
1	1xPFBA1201	-	-	-	PCRM0188	PCRM0238	PTRA0120	-
4	4xPFBA5005	50x5	2	2xPBFA5005	PCRM0288	PCRM0338	PTRA0075	-
2	2xPFBA8010	80x10	1	1xPBFA8010	PCRM0288	PCRM0338	PTRA0100	-
4	4xPFBA8005	80x5	2	2xPBFA8005	PCRM0288	PCRM0338	PTRA0100	-
2	2xPFBA1201	120x10	1	1xPBFA1201	PCRM0288	PCRM0338	PTRA0120	-
1	1xPFBA2505	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPFBA4005	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPFBA6005	-	-	-	PCRM0188	PCRM0238	PTRA0075	-
1	1xPFBA8005	-	-	-	PCRM0188	PCRM0238	PTRA0100	-
2	2xPFBA5005	50x5	1	1xPFBA5005	PCRM0188	PCRM0238	PTRA0075	-
1	1xPFBA8010	80x5	1	1xPFBA8005	PCRM0188	PCRM0238	PTRA0100	-
1	1xPFBA1001	-	-	-	PCRM0188	PCRM0238	PTRA0100	-
2	2xPFBA7510	75x10	1	1xPFBA7510	PCRM0288	PCRM0338	PTRA0075	-
2	2xPFBA1001	100x10	1	1xPFBA1001	PCRM0288	PCRM0338	PTRA0100	-
3	3xPFBA1001	100x10	2	2xPFBA1001	PCRM0388	PCRM0438	PTRA0100	-

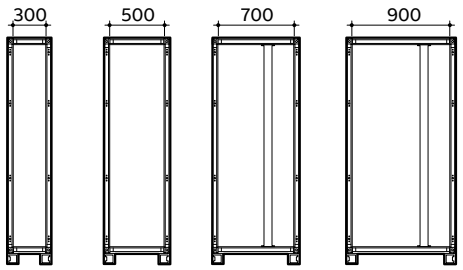
Main distribution systems

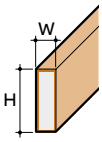
Selection guides

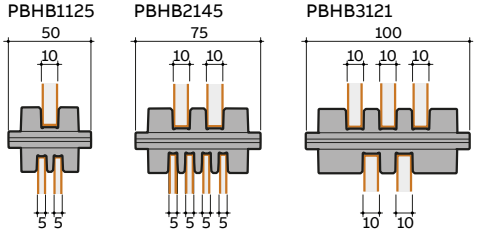
LINEAR SYSTEM - CUPONAL FLAT COPPER BUSBARS, SPACED INSULATORS

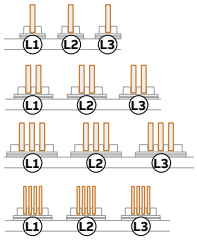
Choice of busbar holders and closing crosspieces in relation to the rated current In (A) and IP protection class.

Structure depth (mm)



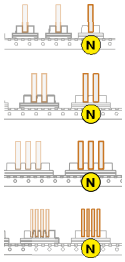




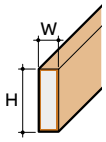


300	500	700	900		Insulators 3 poles 6 pieces 4 poles 8 pieces	Qty Busbar per phase	3 Poles, Busbars L1 L2 L3
Recomended minimum enclosure functional depth 3/4 poles busbar system, insulators in spaced configuration [2]				**Section busbar H x W (mm)**	**code**	**No.**	**code**
In (A) IP30/31 Aerated							
250 [1]	250 [1]	250	250	20x5	PBHB1125	1	3xPFBA2005
400 [1]	400 [1]	400	400	30x5	PBHB1125	1	3xPFBA3005
630 [1]	630 [1]	630	630	50x5	PBHB1125	1	3xPFBA5005
800 [1]	800 [1]	800	800	40x10	PBHB1125	1	3xPFBA4010
1000 [1]	1000 [1]	1000	1000	50x10	PBHB1125	1	3xPFBA5010
1000 [1]	1000 [1]	1000	1000	40x5	PBHB1125	2	6xPFBA4005
1250 [1]	1250 [1]	1250	1250	75x10	PBHB1125	1	3xPFBA7510
1250 [1]	1250 [1]	1250	1250	60x5	PBHB1125	2	6xPFBA6005
1600 [1]	1600 [1]	1600	1600	80x5	PBHB1125	2	6xPFBA8005
1600 [1]	1600 [1]	2000	2000	120x10	PBHB1125	1	3xPFBA1201
-	-	2000	2000	50x5	PBHB2145	4	12xPFBA5005
-	-	2500	2500	80x10	PBHB2145	2	6xPFBA8010
-	-	2500	2500	80x5	PBHB2145	4	12xPFBA8005
-	-	3200	3200	120x10	PBHB2145	2	6xPFBA1201
In (A) IP40/41 Blind & IP65							
250 [1]	250 [1]	250	250	25x5	PBHB1125	1	3xPFBA2505
400 [1]	400 [1]	400	400	40x5	PBHB1125	1	3xPFBA4005
630 [1]	630 [1]	630	630	60x5	PBHB1125	1	3xPFBA6005
800 [1]	800 [1]	800	800	80x5	PBHB1125	1	3xPFBA8005
1000 [1]	1000 [1]	1000	1000	50x5	PBHB1125	2	6xPFBA5005
1250 [1]	1250 [1]	1250	1250	80x10	PBHB1125	1	3xPFBA8010
1600 [1]	1600 [1]	1600	1600	100x10	PBHB1125	1	3xPFBA1001
-	-	2000	2000	75x10	PBHB2145	2	6xPFBA7510
-	-	2500	2500	100x10	PBHB2145	2	6xPFBA1001
-	-	2500 [1]	3200	100x10	PBHB3121	3	9xPFBA1001

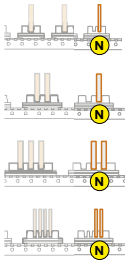
[1] only 3 poles configuration fits, 4 poles does not fit. [2] Insulator clearances pag 4-24.

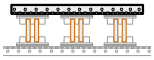


4 Poles
Busbar for N at 100%

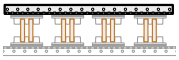


4 Poles
Busbar for N at 50%

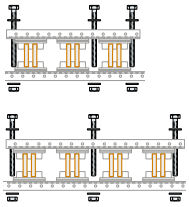




Closing crosspiece
3-pole busbar
holders 1 piece



Closing crosspiece
4-pole busbar
holders 1 piece



Tie rods steel
3 poles 3 pieces
4 poles 3 pieces

Tie rods in AISI 304
stainless steel
3 poles 4 pieces
4 poles 5 pieces

Qty Busbar No.	code	Section busbar H x W (mm)	Qty Busbar No.	code	code	code	code	code
1	1xPFBA2005	-	-	-	PCRM0238	PCRM0338	PTRA0045	-
1	1xPFBA3005	-	-	-	PCRM0238	PCRM0338	PTRA0045	-
1	1xPFBA5005	-	-	-	PCRM0238	PCRM0338	PTRA0075	-
1	1xPFBA4010	40x5	1	1xPBFA4005	PCRM0238	PCRM0338	PTRA0045	-
1	1xPFBA5010	50x5	1	1xPBFA5005	PCRM0238	PCRM0338	PTRA0075	-
2	2xPFBA4005	40x5	1	1xPBFA4005	PCRM0238	PCRM0338	PTRA0045	-
1	1xPFBA7510	-	-	-	PCRM0238	PCRM0338	PTRA0075	-
2	2xPFBA6005	60x5	1	1xPBFA6005	PCRM0238	PCRM0338	PTRA0075	-
2	2xPFBA8005	80x5	1	1xPBFA8005	PCRM0238	PCRM0338	PTRA0100	-
1	1xPFBA1201	-	-	-	PCRM0238	PCRM0338	PTRA0120	-
4	4xPFBA5005	50x5	2	2xPBFA5005	PCRM0338	PCRM0438	PTRA0075	-
2	2xPFBA8010	80x10	1	1xPBFA8010	PCRM0338	PCRM0438	PTRA0100	-
4	4xPFBA8005	80x5	2	2xPBFA8005	PCRM0338	PCRM0438	PTRA0100	-
2	2xPFBA1201	120x10	1	1xPBFA1201	PCRM0338	PCRM0438	PTRA0120	-
1	1xPFBA2505	-	-	-	PCRM0238	PCRM0338	PTRA0045	-
1	1xPFBA4005	-	-	-	PCRM0238	PCRM0338	PTRA0045	-
1	1xPFBA6005	-	-	-	PCRM0238	PCRM0338	PTRA0075	-
1	1xPFBA8005	-	-	-	PCRM0238	PCRM0338	PTRA0100	-
2	2xPFBA5005	50x5	1	1xPFBA5005	PCRM0238	PCRM0338	PTRA0075	-
1	1xPFBA8010	80x5	1	1xPFBA8005	PCRM0238	PCRM0338	PTRA0100	-
1	1xPFBA1001	-	-	-	PCRM0238	PCRM0338	PTRA0100	-
2	2xPFBA7510	75x10	1	1xPFBA7510	PCRM0338	PCRM0438	PTRA0075	-
2	2xPFBA1001	100x10	1	1xPFBA1001	PCRM0338	PCRM0438	PTRA0100	-
3	3xPFBA1001	100x10	2	2xPFBA1001	PCRM0438	PCRM0588	PTRA0100	-

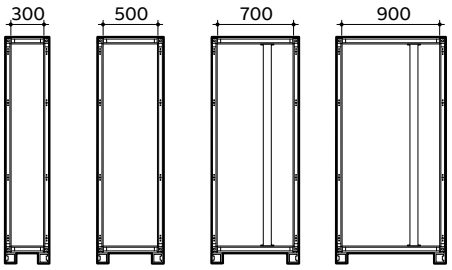
Main distribution systems

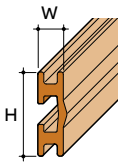
Selection guides

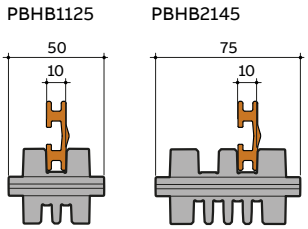
LINEAR SYSTEM - SHAPED BUSBARS, NON-SPACED INSULATORS

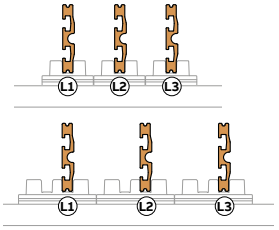
Choice of busbar holders and closing crosspieces in relation to the rated current In (A) and IP protection class.

Structure depth (mm)

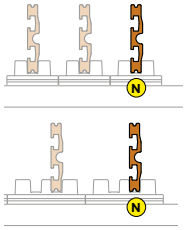


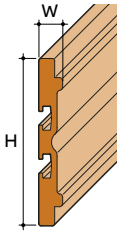


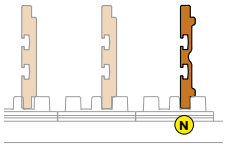


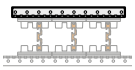


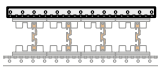
300	500	700	900			Insulators 3 poles 6 pieces 4 poles 8 pieces	Qty Busbar per phase	3 Poles, Busbars L1 L2 L3
Recomended minimum enclosure functional depth 3/4 poles busbar system, insulators in packed configuration				**Section busbar H x W (mm)**	**mm²**	**code**	**No.**	**code**
In (A) IP30/31 Aerated								
475	475	475	475	30x10	165	PBHB1125	1	3xPBSC0400
655	655	655	655	35x10	208	PBHB1125	1	3xPBSC0630
958	958	958	958	45x10	325	PBHB1125	1	3xPBSC0800
1342	1342	1342	1342	67x10	455	PBHB1125	1	3xPBSC1000
1418	1418	1418	1418	70x10	520	PBHB1125	1	3xPBSC1250
1600	1600	1857	1857	95x10	775	PBHB1125	1	3xPBSC1600
-	-	2354	2354	105x15	995	PBHB2145	1	3xPBSC2000
-	-	2860	2860	105x15	1250	PBHB2145	1	3xPBSC2500
In (A) IP40/41 Blind								
440	440	440	440	30x10	165	PBHB1125	1	3xPBSC0400
643	643	643	643	35x10	208	PBHB1125	1	3xPBSC0630
840	840	840	840	45x10	325	PBHB1125	1	3xPBSC0800
1220	1220	1220	1220	67x10	455	PBHB1125	1	3xPBSC1000
1338	1338	1338	1338	70x10	520	PBHB1125	1	3xPBSC1250
1600	1600	1744	1744	95x10	775	PBHB1125	1	3xPBSC1600
-	-	2200	2200	105x15	995	PBHB2145	1	3xPBSC2000
-	-	2500	2750	105x15	1250	PBHB2145	1	3xPBSC2500
In (A) IP65								
400	400	400	400	30x10	165	PBHB1125	1	3xPBSC0400
630	630	630	630	35x10	208	PBHB1125	1	3xPBSC0630
800	800	800	800	45x10	325	PBHB1125	1	3xPBSC0800
1000	1000	1000	1000	67x10	455	PBHB1125	1	3xPBSC1000
1250	1250	1250	1250	70x10	520	PBHB1125	1	3xPBSC1250
1600	1600	1600	1600	95x10	775	PBHB1125	1	3xPBSC1600
-	-	2000	2000	105x15	995	PBHB2145	1	3xPBSC2000
-	-	2500	2500	105x15	1250	PBHB2145	1	3xPBSC2500

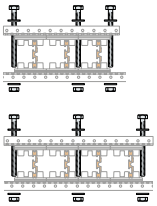












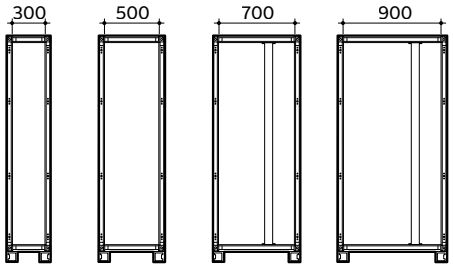
4 Poles Busbar for N at 100%		4 Poles Busbar for N at 50%			Closing crosspiece 3-pole busbar holders 1 piece	Closing crosspiece 4-pole busbar holders 1 piece	Tie rods steel 3 poles 3 pieces 4 poles 3 pieces	Tie rods in AISI 304 stainless steel 3 poles 4 pieces 4 poles 5 pieces
Qty Busbar No.	code	Section busbar H x W (mm)	Qty Busbar No.	code	code	code	code	code
1	1xPBSC0400	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBSC0630	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBSC0800	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBSC1000	-	-	-	PCRM0188	PCRM0238	PTRA0075	-
1	1xPBSC1250	-	-	-	PCRM0188	PCRM0238	PTRA0075	-
1	1xPBSC1600	-	-	-	PCRM0188	PCRM0238	PTRA0100	-
1	1xPBSC2000	-	-	-	PCRM0288	PCRM0338	PTRA0120	-
1	1xPBSC2500	105x15	1	1xPBSC2000	PCRM0288	PCRM0338	PTRA0120	-
1	1xPBSC0400	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBSC0630	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBSC0800	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBSC1000	-	-	-	PCRM0188	PCRM0238	PTRA0075	-
1	1xPBSC1250	-	-	-	PCRM0188	PCRM0238	PTRA0075	-
1	1xPBSC1600	-	-	-	PCRM0188	PCRM0238	PTRA0100	-
1	1xPBSC2000	-	-	-	PCRM0288	PCRM0338	PTRA0120	-
1	1xPBSC2500	105x15	1	1xPBSC2000	PCRM0288	PCRM0338	PTRA0120	-
1	1xPBSC0400	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBSC0630	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBSC0800	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBSC1000	-	-	-	PCRM0188	PCRM0238	PTRA0075	-
1	1xPBSC1250	-	-	-	PCRM0188	PCRM0238	PTRA0075	-
1	1xPBSC1600	-	-	-	PCRM0188	PCRM0238	PTRA0100	-
1	1xPBSC2000	-	-	-	PCRM0288	PCRM0338	PTRA0120	-
1	1xPBSC2500	105x15	1	1xPBSC2000	PCRM0288	PCRM0338	PTRA0120	-

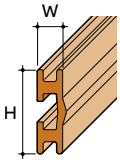
Main distribution systems

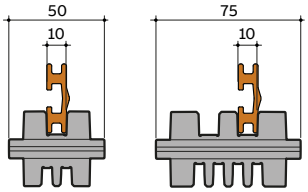
Selection guides

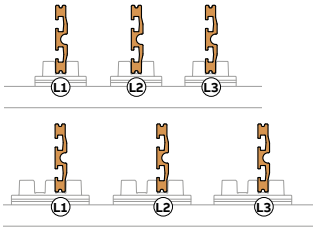
LINEAR SYSTEM - SHAPED BUSBARS, SPACED INSULATORS

Choice of busbar holders and closing crosspieces in relation to the rated current In (A) and IP protection class.



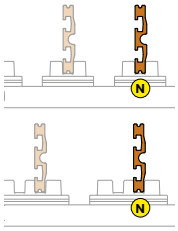


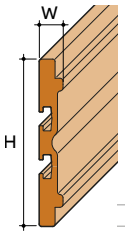


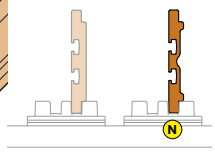


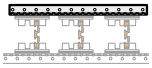
Structure depth (mm)						Insulators 3 poles 6 pieces 4 poles 8 pieces	Qty Busbar per phase	3 Poles, Busbars L1 L2 L3
300	500	700	900					
Recomended minimum enclosure functional depth 3/4 poles busbar system, insulators in spaced configuration [2]				**Section busbar H x W (mm)**	**mm²**	**code**	**No.**	**code**
In (A) IP30/31 Aerated								
475 [1]	475 [1]	475	475	30x10	165	PBHB1125	1	3xPBSC0400
655 [1]	655 [1]	655	655	35x10	208	PBHB1125	1	3xPBSC0630
958 [1]	958 [1]	958	958	45x10	325	PBHB1125	1	3xPBSC0800
1342 [1]	1342 [1]	1342	1342	67x10	455	PBHB1125	1	3xPBSC1000
1418 [1]	1418 [1]	1418	1418	70x10	520	PBHB1125	1	3xPBSC1250
1600 [1]	1600 [1]	1857	1857	95x10	775	PBHB1125	1	3xPBSC1600
-	-	2354	2354	105x15	995	PBHB2145	1	3xPBSC2000
-	-	2860	2860	105x15	1250	PBHB2145	1	3xPBSC2500
In (A) IP40/41 Blind								
440 [1]	440 [1]	440	440	30x10	165	PBHB1125	1	3xPBSC0400
643 [1]	643 [1]	643	643	35x10	208	PBHB1125	1	3xPBSC0630
840 [1]	840 [1]	840	840	45x10	325	PBHB1125	1	3xPBSC0800
1220 [1]	1220 [1]	1220	1220	67x10	455	PBHB1125	1	3xPBSC1000
1338 [1]	1338 [1]	1338	1338	70x10	520	PBHB1125	1	3xPBSC1250
1600 [1]	1600 [1]	1744	1744	95x10	775	PBHB1125	1	3xPBSC1600
-	-	2200	2200	105x15	995	PBHB2145	1	3xPBSC2000
-	-	2500	2750	105x15	1250	PBHB2145	1	3xPBSC2500
In (A) IP65								
400 [1]	400 [1]	400	400	30x10	165	PBHB1125	1	3xPBSC0400
630 [1]	630 [1]	630	630	35x10	208	PBHB1125	1	3xPBSC0630
800 [1]	800 [1]	800	800	45x10	325	PBHB1125	1	3xPBSC0800
1000 [1]	1000 [1]	1000	1000	67x10	455	PBHB1125	1	3xPBSC1000
1250 [1]	1250 [1]	1250	1250	70x10	520	PBHB1125	1	3xPBSC1250
1600 [1]	1600 [1]	1600	1600	95x10	775	PBHB1125	1	3xPBSC1600
-	-	2000	2000	105x15	995	PBHB2145	1	3xPBSC2000
-	-	2500	2500	105x15	1250	PBHB2145	1	3xPBSC2500

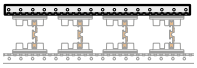
[1] only 3 poles configuration fits, 4 poles does not fit. [2] Insulator clearances pag 4-24.

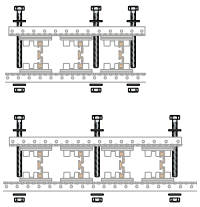










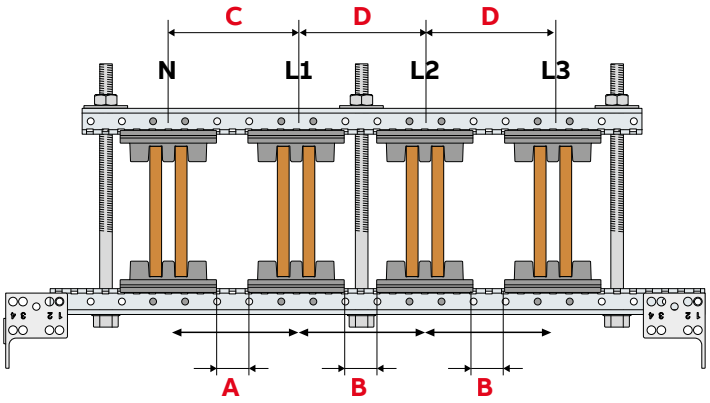


4 Poles Busbar for N at 100%		4 Poles Busbar for N at 50%			Closing crosspiece 3-pole busbar holders 1 piece	Closing crosspiece 4-pole busbar holders 1 piece	Tie rods steel 3 poles 3 pieces 4 poles 3 pieces	Tie rods in AISI 304 stainless steel 3 poles 4 pieces 4 poles 5 pieces
Qty Busbar No.	code	Section busbar H x W (mm)	Qty Busbar No.	code	code	code	code	code
1	1xPBSC0400	-	-	-	PCRM0238	PCRM0338	PTRA0045	-
1	1xPBSC0630	-	-	-	PCRM0238	PCRM0338	PTRA0045	-
1	1xPBSC0800	-	-	-	PCRM0238	PCRM0338	PTRA0045	-
1	1xPBSC1000	-	-	-	PCRM0238	PCRM0338	PTRA0075	-
1	1xPBSC1250	-	-	-	PCRM0238	PCRM0338	PTRA0075	-
1	1xPBSC1600	-	-	-	PCRM0238	PCRM0338	PTRA0100	-
1	1xPBSC2000	-	-	-	PCRM0338	PCRM0438	PTRA0120	-
1	1xPBSC2500	105x15	1	1xPBSC2000	PCRM0338	PCRM0438	PTRA0120	-
1	1xPBSC0400	-	-	-	PCRM0238	PCRM0338	PTRA0045	-
1	1xPBSC0630	-	-	-	PCRM0238	PCRM0338	PTRA0045	-
1	1xPBSC0800	-	-	-	PCRM0238	PCRM0338	PTRA0045	-
1	1xPBSC1000	-	-	-	PCRM0238	PCRM0338	PTRA0075	-
1	1xPBSC1250	-	-	-	PCRM0238	PCRM0338	PTRA0075	-
1	1xPBSC1600	-	-	-	PCRM0238	PCRM0338	PTRA0100	-
1	1xPBSC2000	-	-	-	PCRM0338	PCRM0438	PTRA0120	-
1	1xPBSC2500	105x15	1	1xPBSC2000	PCRM0338	PCRM0438	PTRA0120	-
1	1xPBSC0400	-	-	-	PCRM0238	PCRM0338	PTRA0045	-
1	1xPBSC0630	-	-	-	PCRM0238	PCRM0338	PTRA0045	-
1	1xPBSC0800	-	-	-	PCRM0238	PCRM0338	PTRA0045	-
1	1xPBSC1000	-	-	-	PCRM0238	PCRM0338	PTRA0075	-
1	1xPBSC1250	-	-	-	PCRM0238	PCRM0338	PTRA0075	-
1	1xPBSC1600	-	-	-	PCRM0238	PCRM0338	PTRA0100	-
1	1xPBSC2000	-	-	-	PCRM0338	PCRM0438	PTRA0120	-
1	1xPBSC2500	105x15	1	1xPBSC2000	PCRM0338	PCRM0438	PTRA0120	-

Main distribution systems
Selection guides

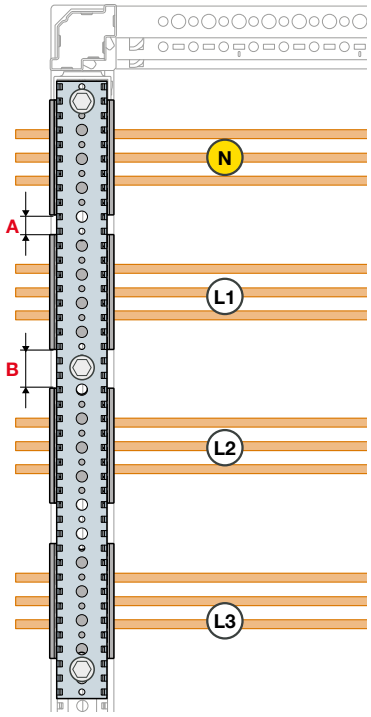
Insulator clearances and choice of end crosspieces in relation to busbar holders
The recommended distances of the insulator blocks of the busbar system are outlined below:

- to facilitate the connections from the circuit-breaker terminals towards the omnibus busbar system;
- For details consult Chapter 7- Examples of connections from circuit-breaker towards omnibus busbars.
- to securely hold the junctions of omnibus busbars in place by gussets for transport purposes, see fig.1.;
- note that the insulator block of the Neutral is always installed 25 mm away, while the phases are spaced apart from each other as indicated in the table below (for any IP protection class).

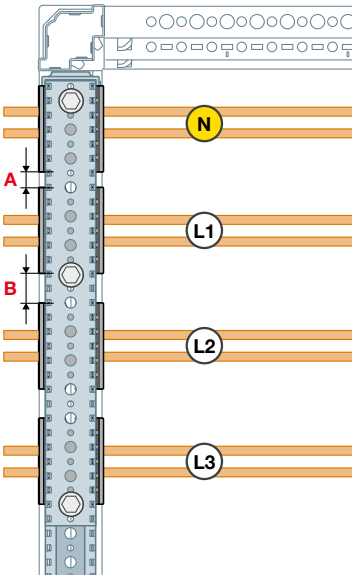


Omnibus rated current [A]	Number of busbars per phase/thickness 10 mm	Recommended useful depth of structure [mm]	Insulator	Neutral Insulator clearance - A [mm]	Neutral-L1 Pitch between Neutral and L1 - C [mm]	Phases - L1 L2 L3 Insulator clearance - B [mm]	Phases - L1 L2 L3 Pitch between phases - D [mm]
800	1	700	PBHB1125	25	75	25	75
1000	1	700	PBHB1125	25	75	25	75
1250	1	700	PBHB1125	25	75	25	75
1600	1	700	PBHB1125	25	75	25	75
2000	2	900	PBHB2145	25	100	37.5	112.5
2500	2	900	PBHB2145	25	100	37.5	112.5
3200	2	900	PBHB2145	25	100	37.5	112.5
3200	3	900	PBHB3121	25	125	50	150
4000	3	900	PBHB3121	25	125	50	150
5000	3	900	PBHB3121	25	125	50	150
6300	3	900	PBHB3121	25	125	50	150

D=900 mm 100 mm block
PBHB3121



D=900mm 75 mm block
PBHB2125



D=700mm 50 mm block
PBHB1125

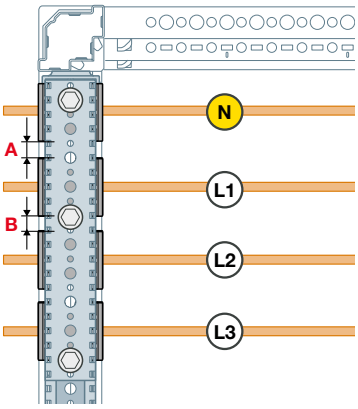
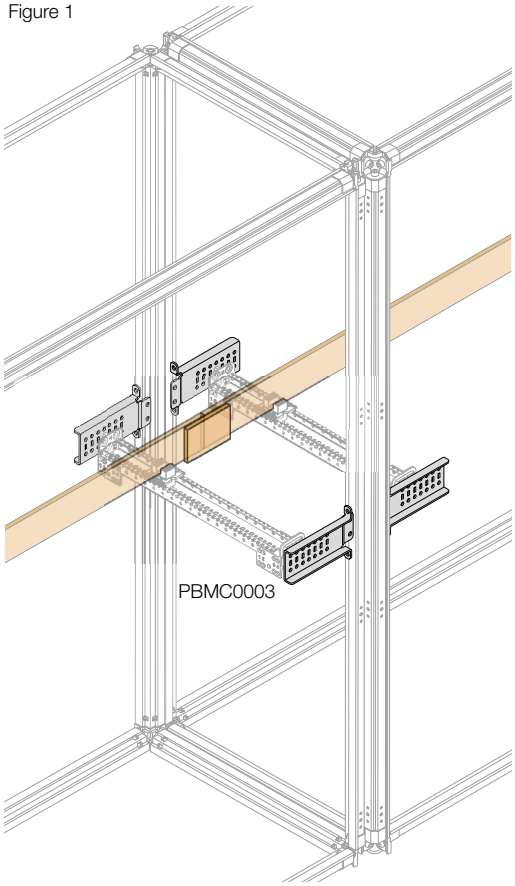
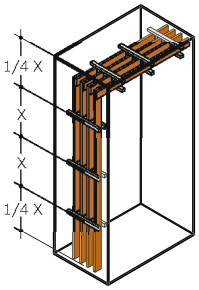


Figure 1



Main distribution systems
Selection guides



The distance between the first busbar holder and the end of the busbar must not exceed 1/4 of “X”, where "x" is the lenght of the busbar.

LINEAR SYSTEM - FLAT BU SBARS AND SHAPED BUSBARS
Choice and assembly of the number of busbar holders, in relation to maximum Icw

Use of the correct number of busbar holders guarantees electrodynamic stress withstand in the event of a short-circuit. Establish the maximum distance (X max) which must not be exceeded between two consecutive busbar holders, in relation to the maximum Icw.

Copper busbars

Description								No. busbar holders Lenght =1750mm in relation to Icw max				
Capacity In (A)			Number	Section				15 kA	20 kA	25 kA	36 kA	50 kA
IP30/31 Areato	IP40/41 Cieco	IP65	of busbars per phase	Busbar (mm)x(mm)	mm²	Busbar	Insulators	X max (mm)	X max (mm)	X max (mm)	X max (mm)	X max (mm)
FLAT BUSBAR In(A)												
292	250	250	1	20X5	100	PBFC2005	PBHB1125	275	-	-	-	-
365	313	313	1	25X5	125	PBFC2505	PBHB1125	275	200	200	-	-
467	400	400	1	32X5	160	PBFC3205	PBHB1125	375	225	225	-	-
584	500	500	1	40X5	200	PBFC4005	PBHB1125	500	275	275	200	-
730	625	625	1	50X5	250	PBFC5005	PBHB1125	500	325	325	225	-
788	788	788	1	63X5	315	PBFC6305	PBHB1125	600	350	350	250	-
876	713	713	1	30X10	300	PBFC3010	PBHB1125	750	425	425	300	-
1000	1000	1000	1	80X5	400	PBFC8005	PBHB1125	750	425	425	300	-
1168	950	950	1	40X10	400	PBFC4010	PBHB1125	900	525	525	350	-
1168	950	950	2	40X5	400	PBFC4005	PBHB1125	700	400	400	275	-
1460	1188	1188	1	50X10	500	PBFC5010	PBHB1125	1000	650	650	450	325
1460	1250	1250	1	100X5	500	PBFC1005	PBHB1125	950	550	550	375	275
-	1900	1900	1	100X10	1000	PBFC1001	PBHB1125	1000	800	800	550	375
2000	1900	1900	2	80X5	800	PBFC8005	PBHB1125	1000	600	600	425	275
2000	1900	1900	1	80X10	800	PBFC8010	PBHB1125	1000	700	700	500	350
2120	1875	1875	2	50X10	1000	PBFC5010	PBHB2145	1000	800	800	550	375
2120	1900	1900	2	100X5	1000	PBFC1005	PBHB1125	1000	725	725	500	350
2400	2250	2250	2	60X10	1200	PBFC6010	PBHB2145	1000	850	850	600	400
3200	2720	2720	4	80X5	1600	PBFC8005	PBHB2145	1000	750	750	525	350
3200	3000	3000	2	80X10	1600	PBFC8010	PBHB2145	1000	1000	1000	700	475
3900	3400	3400	2	100X10	2000	PBFC1001	PBHB2145	1000	925	925	650	425
3900	3400	3400	3	100X10	3000	PBFC1001	PBHB3121	1000	1000	1000	700	500
4100	3400	3400	4	100X5	2000	PBFC1005	PBHB2145	1000	800	800	550	375
4200	4052	4052	3	120X10	3600	PBFC1201	PBHB3121	1000	1000	1000	800	550
5600	-	-	3	160X10	4800	PBFC1601	PBHB3121	1000	1000	1000	700	475
7000	-	-	3	200X10	6000	PBFC2001	PBHB3121	1000	1000	1000	850	550
SHAPED BUSBARS												
475	**440**	**400**	1	30x10	165	PBSC0400	PBHB1125	750	550	450		-
655	**643**	**630**	1	35x10	208	PBSC0630	PBHB1125	750	550	450	300	-
958	**840**	**800**	1	45x10	325	PBSC0800	PBHB1125	900	650	525	375	-
1342	**1220**	**1000**	1	67x10	455	PBSC1000	PBHB1125	800	575	450	325	225
1418	**1338**	**1250**	1	70x10	520	PBSC1250	PBHB1125	900	650	525	350	250
1857	**1744**	**1600**	1	95x10	775	PBSC1600	PBHB1125	1000	650	550	375	250
2354	**2200**	**2000**	1	105x15	995	PBSC2000	PBHB1125	1000	750	600	425	300
2860	**2750**	**2500**	1	105x15	1250	PBSC2500	PBHB1125	1000	800	600	425	300

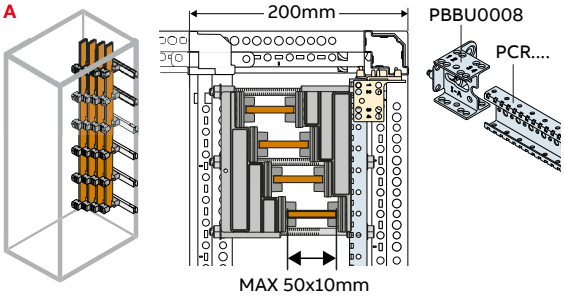
65 kA X max (mm)	75 kA X max (mm)	85 kA X max (mm)	100 kA X max (mm)	120 kA X max (mm)
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
250	-	-	-	-
-	-	-	-	-
300	-	-	-	-
225	-	-	-	-
275	-	-	-	-
300	-	-	-	-
275	-	-	-	-
325	-	-	-	-
275	-	-	-	-
375	-	-	-	-
325	275	250	225	-
375	325	275	250	-
300	-	-	-	-
425	350	325	275	-
375	325	275	225	200
450	400	350	300	250
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
-	-	-	-	-
200	-	-	-	-
225	200	-	-	-
225	200	-	-	-

Cuponal busbars

Description					No. busbar holders Lenght =1750mm in relation to Icw max				
Capacity In (A)	Number of busbars per phase	WxW (mm)	Busbar	Insulators	X max 15 kA (mm)	X max 25 kA (mm)	X max 36 kA (mm)	X max 50 kA (mm)	X max 65 kA (mm)
IP30/31 Aerated									
250	1	20x5	PBFA2005	PBHB1125	225	-	-	-	
400	1	30x5	PBFA3005	PBHB1125	225	175	-	-	-
630	1	50x5	PBFA5005	PBHB1125	275	225	175	-	-
800	1	40x10	PBFA4010	PBHB1125	325	275	225	-	-
1000	1	50x10	PBFA5010	PBHB1125	325	275	250	175	-
1000	2	40x5	PBFA4005	PBHB1125	325	275	250	175	-
1250	1	75x10	PBFA7510	PBHB1125	500	325	250	225	-
1250	2	60x5	PBFA6005	PBHB1125	500	325	250	200	175
1600	2	80x5	PBFA8005	PBHB1125	500	325	275	225	175
2000	1	120x10	PBFA1201	PBHB1125	500	325	325	250	175
2000	4	50x5	PBFA5005	PBHB2145	500	325	250	200	175
2500	2	80x10	PBFA8010	PBHB2145	600	500	325	275	225
2500	4	80x5	PBFA8005	PBHB2145	600	500	325	275	225
3200	2	120x10	PBFA1201	PBHB2145	600	500	325	275	225
IP40/41 Blind & IP65									
250	1	25x5	PBFA2505	PBHB1125	225	-	-	-	-
400	1	40x5	PBFA4005	PBHB1125	275	225	-	-	-
630	1	60x5	PBFA6005	PBHB1125	275	225	175	-	-
800	1	80x5	PBFA8005	PBHB1125	325	275	250	-	-
1000	2	50x5	PBFA5005	PBHB1125	325	275	250	-	-
1250	1	80x10	PBFA8010	PBHB1125	500	325	250	225	-
1600	1	100x10	PBFA1001	PBHB1125	500	325	325	250	175
2000	2	75x10	PBFA7510	PBHB2145	500	325	250	200	175
2500	2	100x10	PBFA1001	PBHB2145	600	500	325	275	225
3200	3	100x10	PBFA1001	PBHB3121	600	500	500	325	275

Main distribution systems
Selection guides

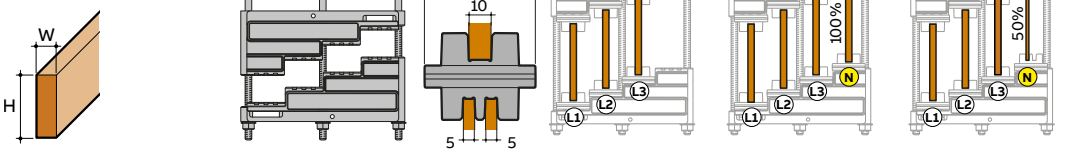
SCALED SYSTEM-FLAT BUSBARS
Fixing busbar holders to the structure.



SUPPORTS FOR FIXING CROSSPIECES TO THE STRUCTURE (2 pieces per crosspiece)		
A - Vertical busbars at the side of the structure		
PBBV0008 [1]		
PBBU0008		
CROSSPIECES FOR BUSBAR HOLDERS (1 piece per busbar holder)		
Structure P (mm)	**Crosspiece in galvanized sheet metal**	**Crosspiece in galvanized sheet metal + intermediate upright**
300	PCRM0288	
500	PCRM0488	PCRM0238
700	PCRM0688	PCRM0438
900	PCRM0888	PCRM0638

[1] Use busbars with 50x10mm maximum section for structures with internal cable compartment W=200mm.

Choice of busbar holders in relation to rated current In (A) and IP protection class. Copper busbars.

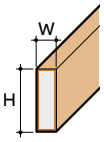


Capacity In (A)	Number of busbars per phase	HxW (mm)	Switchboard installation Minimum depth (mm) D≥300	D≥700	3/4-pole insulator complete with tie rods[1]	Insulators 6 pieces for 3 poles 8 pieces for 4 poles [2]	3 poles Busbars L1 L2 L3	4 poles Busbars L1 L2 L3+ x100% Neutral	Busbars L1 L2 L3+ x50% Neutral
IP30 / IP31									
250A	1	20x5	✓		PBHS1125	PBHB1125	3xPBFC2005	4xPBFC2005	
400A	1	25x5	✓		PBHS1125	PBHB1125	3xPBFC2505	4xPBFC2505	
630A	1	40x5	✓		PBHS1125	PBHB1125	3xPBFC4005	4xPBFC4005	
800A	1	30x10	✓		PBHS1125	PBHB1125	3xPBFC3010	4xPBFC3010	
1000A	1	80x5	✓		PBHS1125	PBHB1125	3xPBFC8005	4xPBFC8005	
1000A	1	40x10	✓		PBHS1125	PBHB1125	3xPBFC4010	4xPBFC4010	3xPBFC4010+1xPBFC4005
1250A	1	100x5	✓		PBHS1125	PBHB1125	3xPBFC1005	4xPBFC1005	
1250A	1	50x10	✓		PBHS1125	PBHB1125	3xPBFC5010	4xPBFC5010	3xPBFC5010+1xPBFC5005
1600A	2	80x5	✓		PBHS1125	PBHB1125	6xPBFC8005	8xPBFC8005	7xPBFC8005
1600A	1	80x10	✓		PBHS1125	PBHB1125	3xPBFC8010	4xPBFC8010	3xPBFC8010+1xPBFC8005
2000A	2	100x5		✓	PBHS1125	PBHB1125	6xPBFC1005	8xPBFC1005	7xPBFC1005
IP40 / IP41 / 65									
250A	1	20x5	✓		PBHS1125	PBHB1125	3xPBFC2005	4xPBFC2005	
400A	1	32x5	✓		PBHS1125	PBHB1125	3xPBFC3205	4xPBFC3205	
630A	1	50x5	✓		PBHS1125	PBHB1125	3xPBFC5005	4xPBFC5005	
800A	1	63x5	✓		PBHS1125	PBHB1125	3xPBFC6305	4xPBFC6305	
1000A	2	40x5	✓		PBHS1125	PBHB1125	6xPBFC4005	8xPBFC4005	7xPBFC4005
1250A	1	100x5	✓		PBHS1125	PBHB1125	3xPBFC1005	4xPBFC1005	
1600A	1	100x10	✓		PBHS1125	PBHB1125	3xPBFC1001	4xPBFC1001	3xPBFC1001+1xPBFC1005
2000A	1	120x10		✓	PBHS1125	PBHB1125	3xPBFC1201	4xPBFC1201	

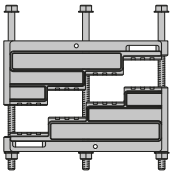
[1] The Pkg contains 1 scaled busbar holder provided with nylon tie-rods.
[2] The Pkg contains 24 pieces.

SCALED SYSTEM-FLAT BUSBARS

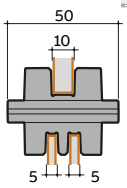
Choice of busbar holders in relation to rated current In (A) and IP protection class. Cuponal busbars.

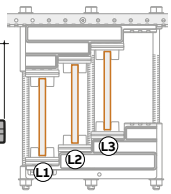


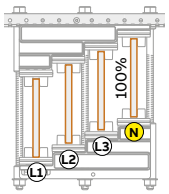
PBHS1125

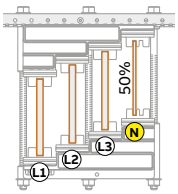


PBHB1125







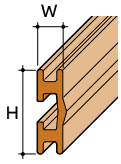


Capacity In (A)	Number of busbars per phase	HxW (mm)	Switchboard installation Minimum depth (mm) D≥300	D≥700	3/4-pole insulator complete with tie rods[1]	Insulators 6 pieces for 3 poles 8 pieces for 4 poles [2]	3 poles Busbars L1 L2 L3	4 poles Busbars L1 L2 L3+ 100% Neutral	Busbars L1 L2 L3+ x50% Neutral
IP30 / IP31									
250	1	20x5	✓		PBHS1125	PBHB1125	3xPBFA2005	4xPBFA2005	
400	1	30x5	✓		PBHS1125	PBHB1125	3xPBFA3005	4xPBFA3005	
630	1	50x5	✓		PBHS1125	PBHB1125	3xPBFA5005	4xPBFA5005	
800	1	40x10	✓		PBHS1125	PBHB1125	3xPBFA4010	4xPBFA4010	3xPBFA4010+1xPBFA4005
1000	1	50x10	✓		PBHS1125	PBHB1125	3xPBFA5010	4xPBFA5010	3xPBFA5010+1xPBFA5005
1000	2	40x5	✓		PBHS1125	PBHB1125	6xPBFA4005	8xPBFA4005	7xPBFA4005
1250	1	75x10	✓		PBHS1125	PBHB1125	3xPBFA7510	4xPBFA7510	
1250	2	60x5	✓		PBHS1125	PBHB1125	6xPBFA6005	8xPBFA6005	7xPBFA6005
1600	2	80x5	✓		PBHS1125	PBHB1125	6xPBFA8005	8xPBFA8005	7xPBFA8005
2000	1	120x10		✓	PBHS1125	PBHB1125	3xPBFA1201	4xPBFA1201	
IP40 / IP41 / 65									
250	1	25x5	✓		PBHS1125	PBHB1125	3xPBFA2505	4xPBFA2505	
400	1	40x5	✓		PBHS1125	PBHB1125	3xPBFA4005	4xPBFA4005	
630	1	60x5	✓		PBHS1125	PBHB1125	3xPBFA6005	4xPBFA6005	
800	1	80x5	✓		PBHS1125	PBHB1125	3xPBFA8005	4xPBFA8005	
1000	2	50x5	✓		PBHS1125	PBHB1125	6xPBFA5005	8xPBFA5005	7xPBFA5005
1250	1	80x10	✓		PBHS1125	PBHB1125	3xPBFA8010	4xPBFA8010	3xPBFA8010+1xPBFA8005
1600	1	100x10	✓		PBHS1125	PBHB1125	3xPBFA1001	4xPBFA1001	

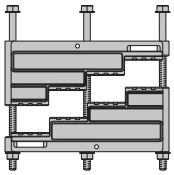
[1] The Pkg contains 1 scaled busbar holder provided with nylon tie-rods.
[2] The Pkg contains 24 pieces.

SCALED SYSTEM - SHAPED BUSBARS

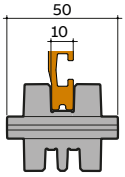
Choice of busbar holders in relation to rated current In (A) and IP protection class.

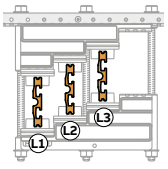


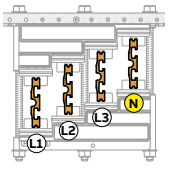
PBHS1125



PBHB1125







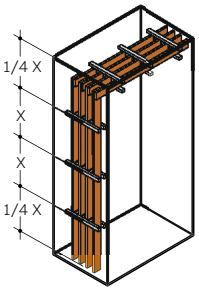
Capacity In (A)			Number of busbars per phase	H xW (mm)	Section (mm²)	Switchboard installation Minimum depth (mm) D≥300	3/4-pole insulator complete with tie rods[1]	Insulators 6 pieces for 3 poles 8 pieces for 4 poles [2]	3 poles Busbars L1 L2 L3	4 polies Busbars L1 L2 L3+100% Neutral
IP30/31	**IP40/41**	**IP65**								
475	**440**	**400**	1	30x10	165	✓	PBHS1125	PBHB1125	3xPBSC0400	4xPBSC0400
655	**643**	**630**	1	35x10	204	✓	PBHS1125	PBHB1125	3xPBSC0630	4xPBSC0630
958	**840**	**800**	1	45x10	324	✓	PBHS1125	PBHB1125	3xPBSC0800	4xPBSC0800
1342	**1220**	**1000**	1	67x10	454	✓	PBHS1125	PBHB1125	3xPBSC1000	4xPBSC1000
1418	**1338**	**1250**	1	70x10	516	✓	PBHS1125	PBHB1125	3xPBSC1250	4xPBSC1250
1857	**1744**	**1600**	1	95x10	758	✓	PBHS1125	PBHB1125	3xPBSC1600	4xPBSC1600

[1] The Pkg contains 1 scaled busbar holder provided with nylon tie-rods.
[2] The Pkg contains 24 pieces.

Main distribution systems
Selection guides

SCALED SYSTEM - FLAT BUSBARS AND SHAPED BUSBARS
Choice and assembly of the number of busbar holders, in relation to maximum Icw

Use of the correct number of busbar holders guarantees electrodynamic stress withstand in the event of a short-circuit. Establish the maximum distance (X max) which must not be exceeded between two consecutive busbar holders, in relation to the maximum Icw.



The distance between the first busbar holder and the end of the busbar must not exceed $^1/_4$ of “X”, where "x" is the lenght of the busbar.

Copper busbars

Description							No. busbar holders Lenght =1750mm in relation to Icw max							
Capacity In (A)			Number of busbars per phase	WxW (mm)	BUSBAR	Insulators	15 kA	X max	25 kA	X max	36 kA	X max	50 kA	X max
IP30/31	IP40/41	IP65												
FLAT BUSBARS														
250	**250**	**250**	1	20x5	PBFC2005	PBHS1125	9	200	-	-	-	-	-	-
400	**-**	**-**	1	25x5	PBFC2505	PBHS1125	7	300	-	-	-	-	-	-
-	**400**	**400**	1	32x5	PBFC3205	PBHS1125	7	300	9	200	-	-	-	-
630	**-**	**-**	1	40x5	PBFC4005	PBHS1125	7	300	9	200	-	-	-	-
-	**630**	**630**	1	50x5	PBFC5005	PBHS1125	5	450	7	275	9	200	-	-
800	**-**	**-**	1	30x10	PBFC3010	PBHS1125	5	450	6	375	9	225	-	-
-	**800**	**800**	1	63x5	PBFC6305	PBHS1125	4	525	5	425	6	325	9	200
1000	**-**	**-**	1	40x10	PBFC4010	PBHS1125	4	525	5	450	6	375	9	200
-	**1000**	**1000**	2	40x5	PBFC4005	PBHS1125	4	525	5	475	7	300	-	-
1000	**-**	**-**	1	80x5	PBFC8005	PBHS1125	4	525	5	475	6	375	9	200
1250	**1250**	**1250**	1	100x5	PBFC1005	PBHS1125	4	525	4	525	6	375	8	250
1250	**-**	**-**	1	50x10	PBFC5010	PBHS1125	4	525	4	525	6	375	8	250
-	**1600**	**1600**	1	100x10	PBFC1001	PBHS1125	4	550	4	550	5	475	6	325
1600	**-**	**-**	1	80x10	PBFC8010	PBHS1125	4	525	4	525	5	475	7	300
1600	**-**	**-**	2	80x5	PBFC8005	PBHS1125	4	525	4	525	6	375	-	-
2000	**-**	**-**	2	100x5	PBFC1005	PBHS1125	4	550	5	425	6	375	-	-
-	**2000**	**2000**	1	120x10	PBFC1201	PBHS1125	4	550	4	550	5	475	7	300
SHAPED BUSBARS														
475	**440**	**400**	1	30x10	PBSC0400	PBHS1125	5	450	6	375	9	225	-	-
655	**643**	**630**	1	35x10	PBSC0630	PBHS1125	5	450	6	375	9	225	-	-
958	**840**	**800**	1	45x10	PBSC0800	PBHS1125	4	525	5	425	6	325	9	200
1342	**1220**	**1000**	1	67x10	PBSC1000	PBHS1125	4	525	5	450	6	375	9	200
1418	**1338**	**1250**	1	70x10	PBSC1250	PBHS1125	4	525	4	525	6	375	8	250
1857	**1744**	**1600**	1	95x10	PBSC1600	PBHS1125	4	550	4	550	5	475	6	325

Cuponal busbars

Description					No. busbar holders Lenght =1750mm in relation to Icw max							
Capacity In (A) IP30/31	Number of busbars per phase	WxW (mm)	BUSBAR	Insulators	15 kA	X max	25 kA	X max	36 kA	X max	50 kA	X max
FLAT BUSBARS IP30/31												
250	1	20x5	PBFA2005	PBHS1125	13	175						
400	1	30x5	PBFA3005	PBHS1125	10	225						
630	1	50x5	PBFA5005	PBHS1125	10	225	13	175				
800	1	40x10	PBFA4010	PBHS1125	7	275	9	250	13	175		
1000	1	50x10	PBFA5010	PBHS1125	6	325	7	275	9	250	13	175
1000	2	40x5	PBFA4005	PBHS1125	6	325	7	275	9	250	13	175
1250	1	75x10	PBFA7510	PBHS1125	6	325	6	325	9	250	12	200
1250	2	60x5	PBFA6005	PBHS1125	6	325	6	325	9	250	12	200
1600	2	80x5	PBFA8005	PBHS1125	6	325	6	325	9	250		
2000	1	120x10	PBFA1201	PBHS1125	6	325	7	275	9	250		
FLAT BUSBARS IP40/41/65												
250	1	25x5	PBFA2505	PBHS1125	13	175						
400	1	40x5	PBFA4005	PBHS1125	10	225	13	175				
630	1	60x5	PBFA6005	PBHS1125	7	275	10	225	13	175		
800	1	80x5	PBFA8005	PBHS1125	6	325	7	275	9	250	13	175
1000	2	50x5	PBFA5005	PBHS1125	6	325	7	275	10	225		
1250	1	80x10	PBFA8010	PBHS1125	6	325	6	325	9	250	12	200
1600	1	100x10	PBFA1001	PBHS1125	6	325	6	325	7	275	9	250

Connection to the circuit breaker

Choice of the copper bars to be used for the connection to the breakers' terminals.

Breaker type	Cross section and amount of the connected copper bars
Tmax XT7 Iu=1000A, Tmax T7 Iu=1000A, Emax E1.2 Iu=1000A	1x50x10
Tmax XT7 Iu=1250A, Tmax T7 Iu=1250A, Emax E1.2 Iu=1250A	2x50x10
Tmax XT7 Iu=1600A, Tmax T7 Iu=1600A, Emax E1.2 Iu=1600A	2x50x10
Emax E2.2 Iu=2000A	2x60x10
Emax E2.2 Iu=2500A	3x60x10
Emax E4.2 Iu=3200A	3x100x10
Emax E4.2 Iu=4000A	4x100x10
Emax E6.2 Iu=5000A	5x100x10
Emax E6.2 Iu=6300A	7x100x10 (terminals) + 4x160x10 (connection)

Please note that the cross section of the horizontal main busbar system might have the different size and configuration than the connection to the breaker of the same current. Double check with the connection's drawings is requested.

Main distribution systems
Selection guides

Compensators and connections for flat and shaped busbar

		Shaped busnbars							
	In	400A	630A	800A	1000A	1250A	1600A	2000A	2500A
	In								
Shaped busbars	400A	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080
	630A	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080
	800A	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080
	1000A				PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016
	1250A				PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016
	1600A						PFCB1016	PFCB2025	PFCB2025
	2000A							2x PFCB2025	2x PFCB2025
	2500A								2x PFCB2025

PFCB4080 – Connections between shaped busbar/shaped busbar or shaped busbar/flat busbar for 400A, 630A, 800A

PFCB1016 – Connections between shaped busbar/shaped busbar or shaped busbar/flat busbar for 1000A, 1250A, 1600A

PFCB2025 – Connections between shaped busbar/shaped busbar or shaped busbar/flat busbar for 2000A, 2500A

PFCC0023 – Compensator for configurations compose of no. of busbar per phase>1

The connections can be used also for joining flat busbar/ shaped busbar (as per the chart above) if the following conditions are fulfilled:

- use of insulating support of the same size both in H and in V
- use of flat busbar with 10mm thickness

In case of joining a main flat busbar system composed of more than one busbar per phase and shaped busbar distribution system, it is recommended to align the shaped busbar to the flat busbar in the most rearward position.

The number of code for connection shall be multiplied by the number of phases included into the busbars system.

—

Example

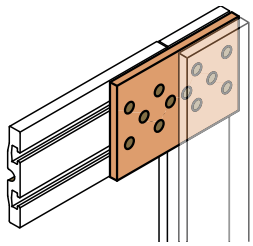
Connection between shaped busbars 2500A and flat busbars 2500A

3P busbars system	6 x PFCB2025 + 3 x PFCC0029
4P busbars system	8 x PFCB2025 + 4 x PFCC0029

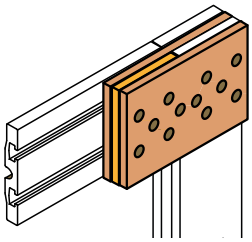
Flat busbars											
800A	1000A	1250A	1600A	2000A	2000A	2500A	3200A	3200A	4000A	5000A	6300A
1 Busbar for phase					2 Busbars for phase			3 Busbars for phase			
PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080 +PFCC0023	PFCB4080 +PFCC0023	PFCB4080 +PFCC0023	PFCB4080 +PFCC0023
PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080 +PFCC0023	PFCB4080 +PFCC0023	PFCB4080 +PFCC0023	PFCB4080 +PFCC0023
PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080 +PFCC0023	PFCB4080 +PFCC0023	PFCB4080 +PFCC0023	PFCB4080 +PFCC0023
	PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016 +PFCC0023	PFCB1016 +PFCC0023	PFCB1016 +PFCC0023	PFCB1016 +PFCC0023
		PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016 +PFCC0023	PFCB1016 +PFCC0023	PFCB1016 +PFCC0023	PFCB1016 +PFCC0023
			PFCB2025	PFCB2025	PFCB2025	PFCB2025	PFCB2025	PFCB2025 +PFCC0023	PFCB2025 +PFCC0023	PFCB2025 +PFCC0023	PFCB2025 +PFCC0023
					2x PFCB2025 +PFCC0023	2x PFCB2025 +PFCC0023	2x PFCB2025 +PFCC0023	2x PFCB2025 +PFCC0023	2x PFCB2025 +PFCC0023	2x PFCB2025 +PFCC0023	2x PFCB2025 +PFCC0023
						2x PFCB2025 + PFCC0023	2x PFCB2025 + PFCC0023	2x PFCB2025 + PFCC0023	2x PFCB2025 + PFCC0023	2x PFCB2025 + PFCC0023	2x PFCB2025 + PFCC0023

Examples of use

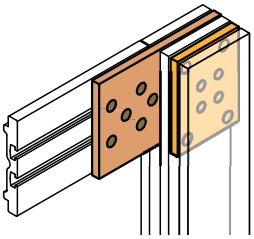
Flat busbars 2 for phase
Shaped busbar ≤ 2000A
PFCB4080 or PFCB1016 or PFCB2025



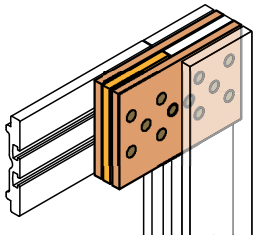
Flat busbars 2 for phase
Shaped busbar ≥ 2000A
2 x PFCB2025 + PFCC0023



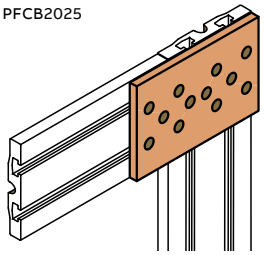
Flat busbars 3 for phase
Shaped busbar ≤ 1600A
PFCB4080 or PFCB1016 or PFCB2025 + PFCC0023



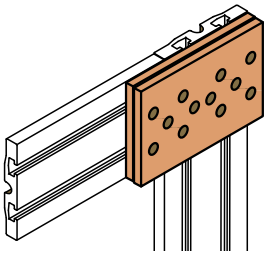
Flat busbars 3 for phase
Shaped busbar ≥ 2000A
2 x PFCB2025 + PFCC0023

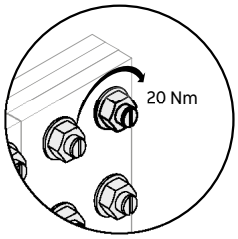


Shaped bar with
shaped bar ≤ 1600A
PFCB4080 or PFCB1016 or PFCB2025

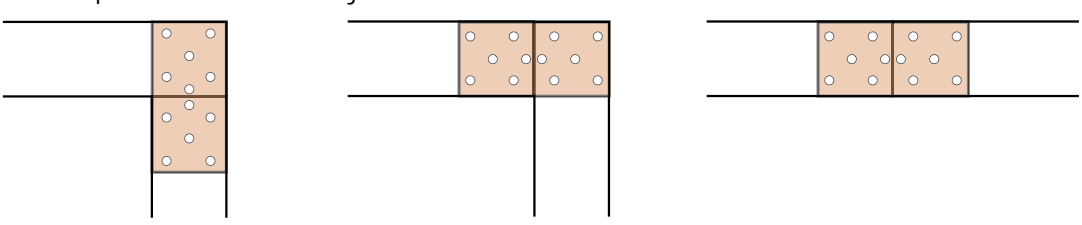


Shaped bar with
shaped bar > 1600A
2 x PFCB2025



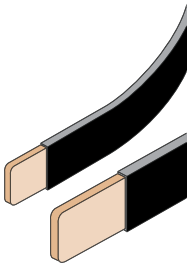


Examples of busbars junction



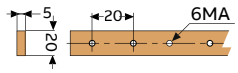
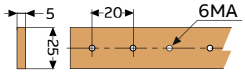
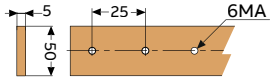
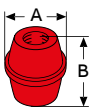
Main distribution systems
Selection guides

Flexible busbars up to 1250A



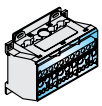
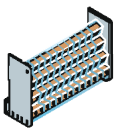
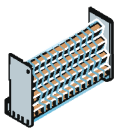
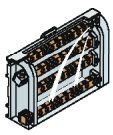
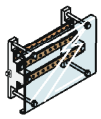
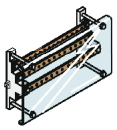
In (A)	Code	No. busbar/ phase	Capacity (A)			Dimensions			
			IP31	IP41	IP65	LxW (mm)	Section dimensions (mm²)	Lenght (mm)	Weight (kg)
160	PBFC0160	1			160	15.5x3	46.5	2000	
250	BF1602	1	395	323	250	20x3	60	2000	1,42
400	BF2502	1	498	460	400	20x5	100	2000	2,15
500	BF4002	1	660	620	500	24x6	144	2000	3
630	BF4012	1	758	702	630	32x5	160	2000	3,36
1000	BF6302	1	1203	1140	1000	40x8	320	2000	6,33
1250	BF8002	1	1515	1390	1250	50x10	500	2000	9,68

Flat drilled and threaded busbars for earthing connection

Cross-section	Code	Threading	Pitch (mm)	WxW (mm)	Lenght (mm)	AxB (mm)
	EV1119	6 MA	20	20x5	2000	
	EV1120	6 MA	20	25x5	2000	
	EV1121	6MA	25	50x5	2000	
	EV1122	6MA				30x30
	EV1123	8MA				30x30
	EV1124	6MA				36x50
	EV1125	8MA				36x50

Modular dividers

Three-poles

Code		AD1004	AD1028	AD1029	AD1027	AD1034	AD1053
In	(A)	125	125	125	160	250	250
Icw	(kA)	10	4.2	4.2	6.2	15	15
Ipk	(kA)	24	25	25	20	30	30
Version	pole	4.2	4	4	4	30	30
Installation		DIN35/plate	DIN35/plate	DIN35/plate	DIN35	4	4
power supply Ø cable (mm^2)	min.	6	6	6	10	with PBR3453 brackets	with PBR3453 brackets
	max	35	25 with cable terminal	25 with cable terminal	50		
No. outgoing feeder Ø cable (mm^2)		1/6 5/phase				No. 22 holes M5 with 17,5mm pitch per phase (threaded busb. 20x5mm)	No. 32 holes M5 with 17,5mm pitch per phase (threaded busb. 20x5mm)
		1.5/6 4/neutral					
		1.5/10 2/phase	7	9			
		6/neutral					
		1.5/16		2			
		2.5/16			8		
		6/25	2	2	3		
Dimensions HxWxD	(mm)	74.5x98x45	93x89x48	96x126x48	90x160.5x50	150x600x70	150x800x70
No. DIN modules		5,5	5	7	9	24	36
Rated service voltage Ue	(V)	1000 Vac 1500 Vdc	440	440	440	500	500
Degree of protection	IP	20	20	20	20		
Mark		UL	UL	UL	UL	UL	UL

Main distribution systems
Selection guides

Unifix system

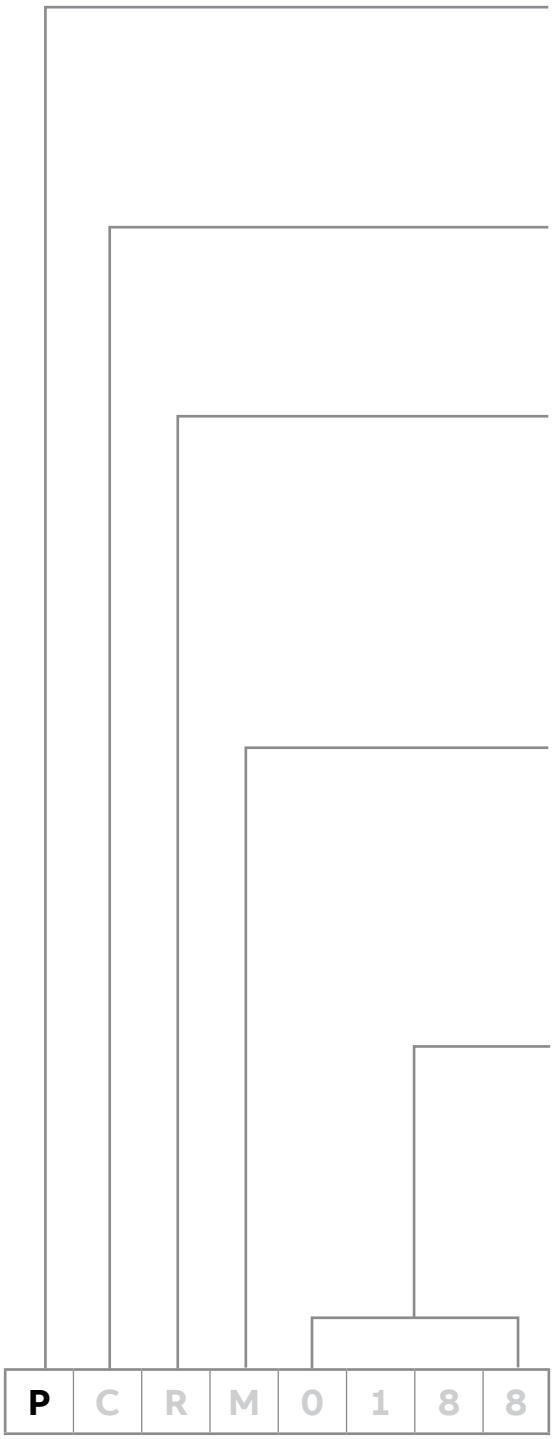
Technical characteristics		Unifix H	Unifix L
Nominal operating voltage (Ue)		690V AC/DC	500V AC/DC
Rated insulation voltage (Ui)		1000V AC/DC	500V AC/DC
Rated pulse voltage (Uimp)		8kV	6kV
Rated frequency		50/60Hz	50/60Hz
Nominal current (In)	central power supply	400A	100A
	side power supply	320A	80A
Rated short-time withstand current (Icw)		25kA	
Rated peak withstand current (Ipk)		52,5kA-400V	
Maximum size of installable breaker		250A	100A
Rated conditional short-circuit current (Icc)	Tmax XT1	50kA-400V	
	Tmax XT3	50kA-400V	
	S200/DS200	6kA-400V	6kA-400V
	S200M	10kA-400V	10kA-400V
	S200P	25kA-400V	25kA-400V
	S800	25kA-400V	
Degree of protection		IP20 with accessory	IP20
Characteristics of the insulating material		Self-extinguishing thermoplastic V1 (UL94)	Self-extinguishing thermoplastic V1 (UL94)
Characteristics of conductive material		Electrolytic copper	Electrolytic copper
Width (no. of modules/mm)		24/600 36/800	12/400 24/600 36/800
Unifix system installation			
Frame for Tmax T e Tmax XT	300x600mm (hxl)	ED2183	
	300x800mm (hxl)	ED2191	
Fixing supports H=300mm		PBUF0002	
bars 4P	12 mod.		ED2944
	18 mod.		ED2951
	24 mod.		ED2969
	36 mod.		ED2977
Fixing support	12 mod.		PDRS0400
	24 mod.		PDRS0600
	36 mod.		PDRS0800

Unifix system - Connections selection according to the breaker

Breakers serie		Unifix H	Unifix L
		(supply from above)	
SN201 DS901L		ED2654 L1/N 40A	ED3272 L1/N 40A
		ED2662 L2/N 40A	ED3280 L2/N 40A
		ED2670 L3/N 40A	ED3298 L3/N 40A
		(supply from above)	
S200 - DS200 F200 up to 63A (Unifix L)		ED2531 L1 63A	ED3033 L1 100A
		ED2549 L2 63A	ED3041 L2 100A
		ED2556 L3 63A	ED3058 L3 100A
		ED2564 N 63A	ED3066 N 100A
		ED2845 base module false pole	
		(supply from above)	
S800		ED2557 L1 ≤32A	
		ED2558 L2 ≤32A	
		ED2559 L3 ≤32A	
		ED2560 N ≤32A	
		ED2551 L1 125A	
		ED2552 L2 125A	
		ED2553 L3 125A	
		ED2554 N 125A	
		ED2550 base module false pole	
		(supply from above)	
S200 (80-100A) E200 up to 100A - F200 80/100A (Unifix H)		ED2720 L1 100A	ED3132 cables supply L1/L2/L3/N - 350mm
		ED2738 L2 100A	ED0026 cables supply L1/L2/L3/N - 1500mm
		ED2746 L3 100A	ED0025 cables supply L1/L2/L3/N - 2500mm
		ED2753 N 100A	
		(supply from above)	ED3355 No.2 cables supply L1/N 40A
MDRC - Various equipment		ED2894 L1/N 16A	ED3363 No.3 cables supply L1/L2/L3 40A
		ED2902 L1/L2 16A	ED3371 No.4 cables supply L1/L2/L3/N 71A
		(supply from above/ below)	
Tmax XT1	Breaker	ED2217 L1 above/L2 below	
		ED2225 L2 above/L1 below	
		ED2233 L3 above/N below	
		ED2241 N above/L3 below	
	Differential	ED2373 module false pole	
	Solenoid control	ED2381 module false pole	
		(supply from above)	
Tmax XT3	Breaker	ED2290 L1	
		ED2308 L2	
		ED2316 L3	
		ED2324 N	
	Differential	ED2373 module false pole	

Main distribution systems
Guide to the order codes

The new code is formed by 4 letters standing for English terms and 4 numbers, without spaces in between.



RANGE IDENTIFIER
The first letter of all the codes of the new main distribution switchboard “P” stands for “power”. Thus the new product is clearly identified by the same initial used for all new components of ABB’s System pro E power

TYPE OF PRODUCT AND CHARACTERISTICS
The second letter in the code indicates the type of product or component of the switchboard. The third and fourth letters describe the characteristics or material in more detail.

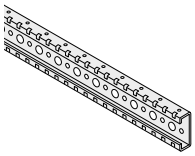
C = Crosspieces
B = Busbar holder, Busbar, Brackets
T = Tie rods

R = Crosspieces, Tie rods
H = Busbar holder
F = Flat
S = Shaped
B = Busbar, Bottom

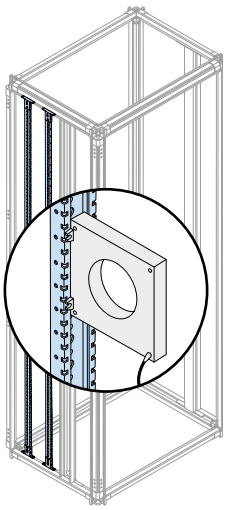
M = Metal
S = Stainless steel
B = Linear
S = Scaled
N = Nylon
C = Copper
V = Vertical
H = Horizontal
T = Top

MEASUREMENTS
The last 4 numbers usually refer to a measurement of the component or several dimensions pertaining to the code.

Main distribution systems
Order codes



Crosspieces – Galvanzied sheet metal
Crosspieces in 20/10 thick hot-dip galvanized sheet metal, for < than 4000A current values. They are fixed directly inside the cubicle using a purpose-made bracket to form busbar holders or as universal crosspieces. Equipped with 12.5mm pitch rectangular holes, they are able to house insulating supports for thermoplastic busbar holders with snap-fit mechanism.

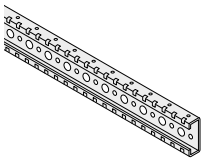


Description	Dimensions (mm) D	W	H	Type	Order code	Pkg/ No. pcs
Depth galvanized sheet metal crosspieces for structures without intermediate upright						
No.2 crosspieces	200			PCRM0188	1STQ007375A0000	1/2
No.2 crosspieces	300			PCRM0288	1STQ007376A0000	1/2
No.2 crosspieces	500			PCRM0488	1STQ007378A0000	1/2
No.2 crosspieces	700			PCRM0688	1STQ007380A0000	1/2
No.2 crosspieces	900			PCRM0888	1STQ007382A0000	1/2
Depth galvanized sheet metal crosspieces for structures with intermediate upright or PCKI.... crosspieces						
No.2 crosspieces	500			PCRM0238	1STQ007384A0000	1/2
No.2 crosspieces	700			PCRM0438	1STQ007386A0000	1/2
No.2 crosspieces	900			PCRM0638	1STQ007388A0000	1/2
Width galvanized sheet metal crosspieces for structures with or without intermediate upright						
No.2 crosspieces		300		PCRM0288	1STQ007376A0000	1/2
No.2 crosspieces		400		PCRM0388	1STQ007377A0000	1/2
No.2 crosspieces		600		PCRM0588	1STQ007379A0000	1/2
No.2 crosspieces		800		PCRM0788	1STQ007381A0000	1/2
No.2 crosspieces		1000		PCRM0988	1STQ007383A0000	1/2
No.2 crosspieces		1250		PCRM1238	1STQ007390A0000	1/2
Width galvanized sheet metal crosspieces for structures with rear intermediate upright						
No.2 crosspieces	600			PCRM0338	1STQ007385A0000	1/2
No.2 crosspieces	800			PCRM0538	1STQ007387A0000	1/2
No.2 crosspieces	1000			PCRM0738	1STQ007389A0000	1/2
Crosspieces total height						
No.2 galvanized sheet metal crosspieces for total height of enclosures			1800	PCRM1788*	1STQ002007B0000	1/2
No.2 galvanized sheet metal crosspieces for total height of enclosures			2000	PCRM1988*	1STQ002006B0000	1/2
Universal crosspieces						
No.2 galvanized sheet metal - Length 2013mm				PCRM2013	1STQ007391A0000	1/2

*To be mounted with PBMC0002 brackets.

Main distribution system

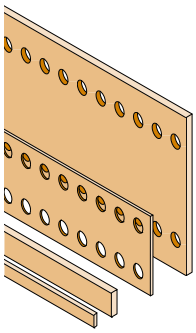
Order codes



Crosspieces – AISI 304 stainless steel

Crosspieces in 25/10 thick AISI 304 stainless steel for ≥ than 4000A current values. They are fixed directly inside the cubicle using a purpose-made bracket to form busbar holders or as universal crosspieces.Equipped with 12.5mm pitch rectangular holes, they are able to house insulating supports for thermoplastic busbar holders with snap-fit mechanism. Since the components are modular, the center distance between the phases can be increased by spacing the insulating supports at a 12.5mm pitch.

Description	Dimensions (mm) W	H	Type	Order code	Pkg/ No. pcs
Depth stainless steel crosspieces for structures without intermediate upright					
No. 2 crosspieces	900		PCRS0888	1STQ007395A0000	1/2
Depth stainless steel crosspieces for structures with intermediate upright or PCKI.... crosspieces					
No. 2 crosspieces	700		PCRS0438	1STQ007398A0000	1/2
No. 2 crosspieces	900		PCRS0638	1STQ007399A0000	1/2
Width stainless steel crosspieces for structures with or without intermediate upright					
No. 2 crosspieces		400	PCRS0388	1STQ007392A0000	1/2
No. 2 crosspieces		600	PCRS0588	1STQ007393A0000	1/2
No. 2 crosspieces		800	PCRS0788	1STQ007394A0000	1/2
No. 2 crosspieces		1000	PCRS0988	1STQ007396A0000	1/2
No. 2 crosspieces		1250	PCRS1238	1STQ007400A0000	1/2
Closing stainless steel crosspieces					
No. 2 crosspieces			PCRS0338	1STQ007397A0000	1/2
No. 2 crosspieces			PCRS0438	1STQ007398A0000	1/2
1/2 Universal crosspieces					
No. 2 crosspieces L=2013mm			PCRS2013	1STQ001335B0000	1/2



Flat copper busbars

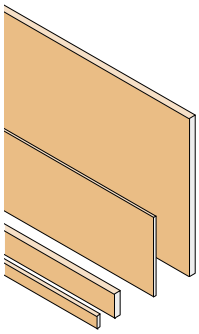
Flat busbars Lenght =1750mm.

Description	LxW (mm)	No. row drillings	Ø drilling (mm)	Type	Order code	Pkg/ No. pcs
Flat copper busbar	20x5	1	6.5	PBFC2005	1STQ007401A0000	1/1
Flat copper busbar	25x5	1	6.5	PBFC2505	1STQ007402A0000	1/1
Flat copper busbar	32x5	1	6.5	PBFC3205	1STQ007403A0000	1/1
Flat copper busbar	40x5	1	6.5	PBFC4005	1STQ007404A0000	1/1
Flat copper busbar	50x5	2	10.5	PBFC5005	1STQ007405A0000	1/1
Flat copper busbar	63x5	2	10.5	PBFC6305	1STQ007406A0000	1/1
Flat copper busbar	80x5	2	10.5	PBFC8005	1STQ007407A0000	1/1
Flat copper busbar	100x5	2	10.5	PBFC1005	1STQ007408A0000	1/1
Flat copper busbar	30x10	1	10.5	PBFC3010	1STQ007409A0000	1/1
Flat copper busbar	40x10	-	-	PBFC4010	1STQ007410A0000	1/1
Flat copper busbar	50x10	-	-	PBFC5010	1STQ007411A0000	1/1
Flat copper busbar	60x10	-	-	PBFC6010	1STQ007412A0000	1/1
Flat copper busbar	80x10	-	-	PBFC8010	1STQ007413A0000	1/1
Flat copper busbar	100x10	-	-	PBFC1001	1STQ007414A0000	1/1
Flat copper busbar	120x10	-	-	PBFC1201	1STQ007415A0000	1/1
Flat copper busbar	160x10	-	-	PBFC1601	1STQ007416A0000	1/1
Flat copper busbar	200x10	-	-	PBFC2001	1STQ007417A0000	1/1

• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Main distribution system

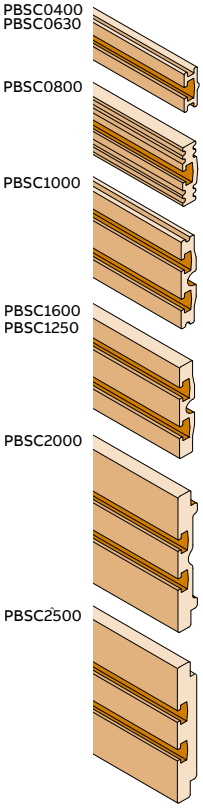
Order codes



Flat busbars in Cuponal

Flat busbars in Cuponal (co-extruded copper-clad aluminium busbars) for In up to 3200A.

Description	LxW (mm)	Lenght (mm)	Type	Order code	Pkg/ No. pcs
Flat busbars in Cuponal	20x5	1750	PBFA2005	1STQ009187A0000	1/1
Flat busbars in Cuponal	25x5	1750	PBFA2505	1STQ009188A0000	1/1
Flat busbars in Cuponal	30x5	1750	PBFA3005	1STQ009189A0000	1/1
Flat busbars in Cuponal	40x5	1750	PBFA4005	1STQ009190A0000	1/1
Flat busbars in Cuponal	50x5	1750	PBFA5005	1STQ009191A0000	1/1
Flat busbars in Cuponal	60x5	1750	PBFA6005	1STQ009192A0000	1/1
Flat busbars in Cuponal	80x5	1750	PBFA8005	1STQ009193A0000	1/1
Flat busbars in Cuponal	40x10	1750	PBFA4010	1STQ009194A0000	1/1
Flat busbars in Cuponal	50x10	1750	PBFA5010	1STQ009195A0000	1/1
Flat busbars in Cuponal	75x10	1750	PBFA7510	1STQ009196A0000	1/1
Flat busbars in Cuponal	80x10	1750	PBFA8010	1STQ009197A0000	1/1
Flat busbars in Cuponal	100x10	1750	PBFA1001	1STQ009198A0000	1/1
Flat busbars in Cuponal	120x10	1750	PBFA1201	1STQ009199A0000	1/1



Shaped profile copper busbar

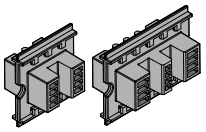
Shaped profile distribution busbars L=1750mm.

Description	LxW (mm)	mm²	Lenght (mm)	Type	Order code	Pkg/ No. pcs
Shaped copper busbar	30x10	165	1750	PBSC0400	1STQ007418A0000	1/1
Shaped copper busbar	35x10	208	1750	PBSC0630	1STQ007419A0000	1/1
Shaped copper busbar	45x10	325	1750	PBSC0800	1STQ007420A0000	1/1
Shaped copper busbar	67x10	455	1750	PBSC1000	1STQ007421A0000	1/1
Shaped copper busbar	70x10	520	1750	PBSC1250	1STQ007422A0000	1/1
Shaped copper busbar	95x10	775	1750	PBSC1600	1STQ007423A0000	1/1
Shaped copper busbar	105x15	995	1750	PBSC2000	1STQ007424A0000	1/1
Shaped copper busbar	105x15	1250	1750	PBSC2500	1STQ007425A0000	1/1

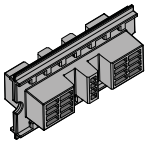
• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Main distribution system

Order codes



PBHB1125 PBHB2145



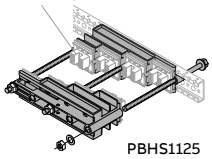
PBHB3121

Insulating supports for busbars

Insulating supports for busbars in polyamide 6.6 with 30% fiberglass, equipped with shaped grooves for housing busbars and pins for fixing to the crosspieces. Able to house both flat and shaped profile busbars.

Description	Dimensions W (mm)	Type	Order code	Pkg/ No. pcs
No.24 insulating supports for busbars	50	PBHB1125	1STQ007426A0000	1/24
No.24 insulating supports for busbars	75	PBHB2145	1STQ007427A0000	1/24
No.24 insulating supports for busbars	100	PBHB3121	1STQ007428A0000	1/24

PBHB1125



PBHS1125

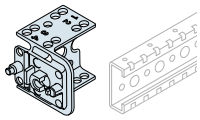
Scaled busbar holder

Scaled busbar holder for flat-shaped busbars complete with tie rods.

Description	Type	Order code	Pkg/ No. pcs
Scaled busbar holder	PBHS1125	1STQ007429A0000	1/1
No.24 insulating supports for busbars	PBHB1125*	1STQ007426A0000	1/24

For 4 poles it is needed n. 8 insulators for each scaled busbar holder. For 3 poles it is needed n. 6 insulators for each scaled busbar holder.
PBHB1125 contains n. 24 insulators.
* For structures with internal cable container W=200mm use bars with maximum section 50x10mm

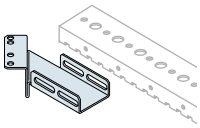
PBBU0008



Brackets for fixing vertical/horizontal busbars holder crosspieces

Description	Type	Order code	Pkg/ No. pcs
No. 8 brackets for crosspieces	PBBU0008	1STQ001588B0000	1/8

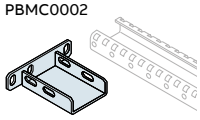
PBCB0002



Brackets for fixing horizontal top/bottom busbars in corner structure

Description	Type	Order code	Pkg/ No. pcs
No. 2 busbars backing brackets for corner structure	PBCB0002	1STQ009186A0000	1/2

PBMC0002



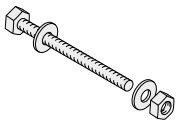
Brackets for connection module

Brackets for fixing the crosspieces on PMCS .... connection module

Description	Type	Order code	Pkg/ No. pcs
No.2 fixing brackets on connection module	PBMC0002	1STQ009215A0000	1/2

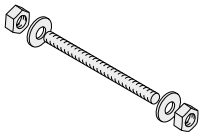
• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Main distribution system
Order codes



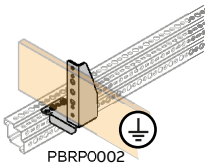
Tie rods in steel
Tie rods steel (for In <4000A current values).

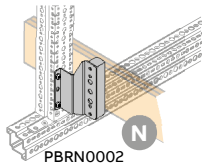
Description	Type	Order code	Pkg/ No. pcs
No.6 Tie rods in steel length = 120mm	PTRA0045	1STQ007231B0000	1/6
No.6 Tie rods in steel length = 150mm	PTRA0075	1STQ007232B0000	1/6
No.6 Tie rods in steel length = 180mm	PTRA0100	1STQ007233B0000	1/6
No.6 Tie rods in steel length = 200mm	PTRA0120	1STQ007234B0000	1/6



Tie rods in AISI 304 stainless steel
Tie rods in AISI 304 stainless steel (for In ≥4000A current values).

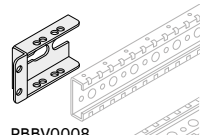
Description	Type	Order code	Pkg/ No. pcs
No. 10 Tie rods in AISI 304 stainless steel length=120mm	PTRS1201	1STQ007434A0000	1/10
No. 10 Tie rods in AISI 304 stainless steel length=160mm	PTRS1601	1STQ007435A0000	1/10
No. 10 Tie rods in AISI 304 stainless steel length=200mm	PTRS2001	1STQ007436A0000	1/10

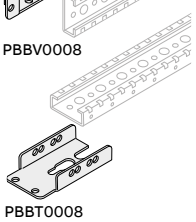




Brackets for earth and neutral fixing

Description	Type	Order code	Pkg/ No. pcs
No. 2 brackets for earth fixing	PBRP0002	1STQ001554B0000	1/2
No. 2 brackets for neutral fixing	PBRN0002	1STQ001555B0000	1/2





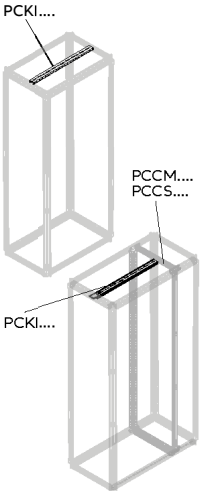
Crosspiece fixing brackets - vertical/horizontal

Description	Type	Order code	Pkg/ No. pcs
No. 8 brackets for crosspieces	PBBV0008	1STQ007430A0000	1/8
No. 8 brackets for crosspieces	PBBT0008	1STQ007432A0000	1/8

For application details see page 4-8.

Main distribution system

Order codes

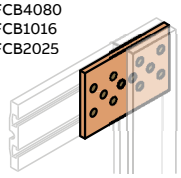


Crosspiece for horizontal busbar assembly under top or on bottom of structure

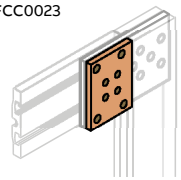
For assembly in D>300mm structures with internal cable compartment, order PCCM.... cable compartment depth crosspieces as well.

Description	Dimensions W (mm)	Type	Order code	Pkg/ No. pcs
Intermediate crosspiece for busbars under top/on bottom	300	PCKI0300	1STQ008099A0000	1/1
Intermediate crosspiece for busbars under top/on bottom	400	PCKI0400	1STQ008100A0000	1/1
Intermediate crosspiece for busbars under top/on bottom	600	PCKI0600	1STQ008101A0000	1/1
Intermediate crosspiece for busbars under top/on bottom	800	PCKI0800	1STQ008102A0000	1/1
Intermediate crosspiece for busbars under top/on bottom	1000	PCKI1000	1STQ008103A0000	1/1
Intermediate crosspiece for busbars under top/on bottom	1250	PCKI1250	1STQ008104A0000	1/1

PFCB4080
PFCB1016
PFCB2025

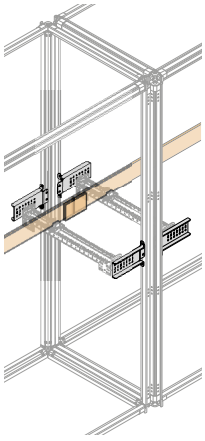


PFCC0023



Compensators and connections for flat and shaped busbar

Description	Type	Order code	Pkg/ No. pcs
Connections between shaped busbar/shaped busbar or shaped busbar/flat busbar for 400A, 630A, 800A	PFCB4080	1STQ009224A0000	1/1
Connections between shaped busbar/shaped busbar or shaped busbar/flat busbar for 1000A, 1250A, 1600A	PFCB1016	1STQ009225A0000	1/1
Connections between shaped busbar/shaped busbar or shaped busbar/flat busbar for 2000A, 2500A	PFCB2025	1STQ009226A0000	1/1
Compensator for configurations compose of no. of busbar per phase>1	PFCC0023	1STQ009227A0000	1/1



Plates for horizontal busbar connection

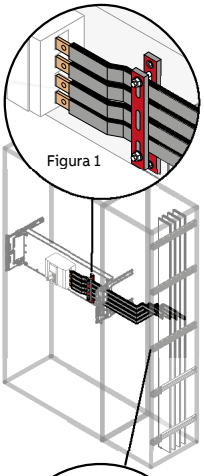
Plates for assembling busbar holders in a retracted position with respect to the uprights of the structure. This allows the busbars to be connected between one switchboard and the next and copper gussets to be fastened. Must not be used for busbars under the top or on the bottom.

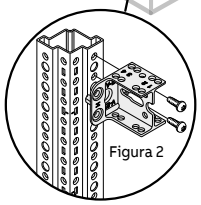
Description	Type	Order code	Pkg/ No. pcs
2 (two) plates for horizontal busbar connection	PBMC0003	1STQ002349B0000	1/2

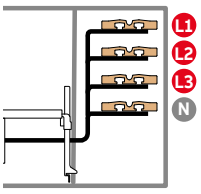
• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Main distribution system

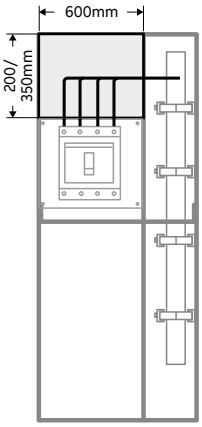
Order codes







Neutro 100%



Connections D=300mm for not accessorized fixed breakers (front terminals)
LINEAR BUSBAR HOLDER, SHAPED BUSBARS 1600A IN CABLE CONTAINER

For horizontal fixed breakers 3 P is necessary to use the relating 3/4 P mounting kit in order to assemble the connections. The busbar system must be build up with insulators W=50mm (PBHB1125).
The busbars must be mounted into the most rear and farther position from the circuit breaker with the neutral in the first position towards the front. Use brackets PBBU008 for fixing the busbar system (see picture 2). The code includes an insulator mounted on the plate (see picture 1).

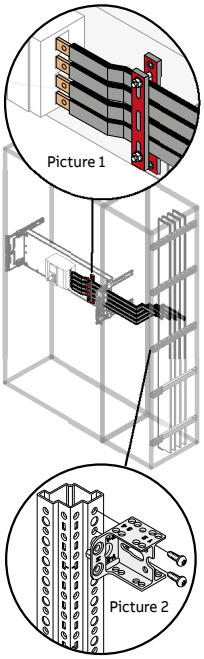
Circuit breakers	No. poles	In (A)	External cable container W=300mm	Internal cable container W=400mm	Type	Order code	Pkg/ No. pcs
Horizontal instllation							
XT1	3P	160A	400+300	400+400	PBPX1631	1STQ009229A0000	1/1
XT1	3P	160A	600+300	600+400	PBTX1631	1STQ009230A0000	1/1
XT1	4P	160A	400+300	400+400	PDPX1631	1STQ009231A0000	1/1
XT1	4P	160A	600+300	600+400	PDTX1631	1STQ009232A0000	1/1
XT2	3P	160A	400+300	400+400	PBPX2631	1STQ009233A0000	1/1
XT2	3P	160A	600+300	600+400	PBTX2631	1STQ009234A0000	1/1
XT2	4P	160A	400+300	400+400	PDPX2631	1STQ009235A0000	1/1
XT2	4P	160A	600+300	600+400	PDTX2631	1STQ009236A0000	1/1
XT3	3P	250A	400+300	400+400	PBPX3631	1STQ009237A0000	1/1
XT3	3P	250A	600+300	600+400	PBTX3631	1STQ009238A0000	1/1
XT3	4P	250A	400+300	400+400	PDPX3631	1STQ009239A0000	1/1
XT3	4P	250A	600+300	600+400	PDTX3631	1STQ009240A0000	1/1
XT4	3P	250A	400+300	400+400	PBPX4631	1STQ009241A0000	1/1
XT4	3P	250A	600+300	600+400	PBTX4631	1STQ009242A0000	1/1
XT4	4P	250A	400+300	400+400	PDPX4631	1STQ009243A0000	1/1
XT4	4P	250A	600+300	600+400	PDTX4631	1STQ009244A0000	1/1
T4	3P	320A	400+300	400+400	PBPT4631	1STQ009245A0000	1/1
T4	3P	320A	600+300	600+400	PBTT4631	1STQ009246A0000	1/1
T4	4P	320A	400+300	400+400	PDPT4631	1STQ009247A0000	1/1
T4	4P	320A	600+300	600+400	PDTT4631	1STQ009248A0000	1/1
T5	3P	400A	400+300	400+400	PBPT5631	1STQ009249A0000	1/1
T5	3P	400A	600+300	600+400	PBTT5631	1STQ009250A0000	1/1
T5	4P	400A	400+300	400+400	PDPT5631	1STQ009251A0000	1/1
T5	4P	400A	600+300	600+400	PDTT5631	1STQ009252A0000	1/1
XT6-T6	3P	800A	600+300	600+400	PBTT6631	1STQ009253A0000	1/1
XT6-T6	4P	800A	600+300	600+400	PDTT6631	1STQ009254A0000	1/1
XT7-T7	3P	1600A	600+300	600+400	PBTT7631	1STQ009255A0000	1/1
XT7-T7	4P	1600A	600+300	600+400	PDTT7631	1STQ009256A0000	1/1
E1.2	3P	1600A	600+300	600+400	PBTT7631	1STQ009255A0000	1/1
E1.2	4P	1600A	600+300	600+400	PDTT7631	1STQ009256A0000	1/1
Vertical instllation							
XT6-T6 [1]	3P	800A	600+300	600+400	PCTT6631	1STQ009259A0000	1/1
XT6-T6 [1]	4P	800A	600+300	600+400	PFTT6631	1STQ009260A0000	1/1
XT7-T7 [2]	3P	1600A	600+300	600+400	PCTT7631	1STQ009261A0000	1/1
XT7-T7 [2]	4P	1600A	600+300	600+400	PFTT7631	1STQ009262A0000	1/1
E1.2 [2]	3P	1600A	600+300	600+400	PCTT7631	1STQ009261A0000	1/1
E1.2 [2]	4P	1600A	600+300	600+400	PFTT7631	1STQ009262A0000	1/1

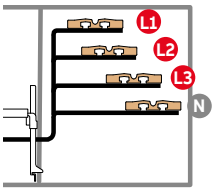
[1] For vertical T6 breakers it is necessary to leave a blind cell above H=200mm.
[2] For vertical T7 and E1.2 it is necessary to leave a blind cell above H=350mm. The connections are designed for the high side of the circuit breakers with busbars to the right.

• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

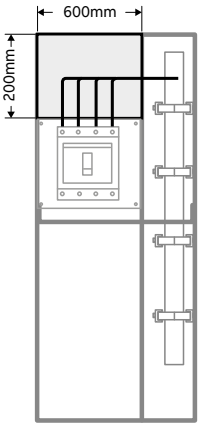
Main distribution system

Order codes





Neutro 100%



Connections D=300mm for not accessorized fixed breakers (front terminals)
LINEAR BUSBAR HOLDER, SHAPED BUSBARS 800A IN INTERNAL CABLE CONTAINER W=200mm
For horizontal fixed breakers 3 P is necessary to use the relating 3/4 P mounting kit in order to assembl the connections. The busbar system must be build up with insulators W=50mm (PBHB1125).
The busbars must be mounted into the most rear and farther position from the circuit breaker with the neutral in the first position towards the front. Use brackets PBBU008 for fixing the busbar system (see picture 2). The code includes an insulator mounted on the plate (see picture 1).

Circuit breakers	No. poles	In (A)	Structure width (mm)	Type	Order code	Pkg/ No. pcs
Horizontal instllation - Shaped busbars 800A						
XT1	3P	160A	400+200	PBGX1738	1STQ008663A0000	1/1
XT1	3P	160A	600+200	PBPX1738	1STQ009265A0000	1/1
XT1	4P	160A	400+200	PDGX1738	1STQ008664A0000	1/1
XT1	4P	160A	600+200	PDPX1738	1STQ009266A0000	1/1
XT2	3P	160A	400+200	PBGX2738	1STQ008667A0000	1/1
XT2	3P	160A	600+200	PBPX2738	1STQ009267A0000	1/1
XT2	4P	160A	400+200	PDGX2738	1STQ008668A0000	1/1
XT2	4P	160A	600+200	PDPX2738	1STQ009268A0000	1/1
XT3	3P	250A	400+200	PBGX3738	1STQ008671A0000	1/1
XT3	3P	250A	600+200	PBPX3738	1STQ009269A0000	1/1
XT3	4P	250A	400+200	PDGX3738	1STQ008672A0000	1/1
XT3	4P	250A	600+200	PDPX3738	1STQ009270A0000	1/1
XT4	3P	250A	400+200	PBGX4738	1STQ008675A0000	1/1
XT4	3P	250A	600+200	PBPX4738	1STQ009271A0000	1/1
XT4	4P	250A	400+200	PDGX4738	1STQ008676A0000	1/1
XT4	4P	250A	600+200	PDPX4738	1STQ009272A0000	1/1
T4	3P	320A	400+200	PBGT4738	1STQ008679A0000	1/1
T4	3P	320A	600+200	PBPT4738	1STQ009273A0000	1/1
T4	4P	320A	400+200	PDGT4738	1STQ008680A0000	1/1
T4	4P	320A	600+200	PDPT4738	1STQ009274A0000	1/1
T5	3P	400A	400+200	PBGT5738	1STQ008683A0000	1/1
T5	3P	400A	600+200	PBPT5738	1STQ009275A0000	1/1
T5	4P	400A	400+200	PDGT5738	1STQ008684A0000	1/1
T5	4P	400A	600+200	PDPT5738	1STQ009276A0000	1/1
T6/XT6	3P	800A	600+200	PBPT6738	1STQ009277A0000	1/1
T6/XT6	4P	800A	600+200	PDPT6738	1STQ009278A0000	1/1
Vertical instllation - Shaped busbars 800A						
T6/XT6 [1]	3P	800A	600+200	PCPT6738	1STQ009279A0000	1/1
T6/XT6 [1]	4P	800A	600+200	PFPT6738	1STQ009280A0000	1/1

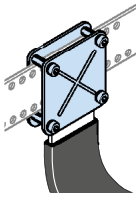
[1] For vertical XT6-T6 breakers it is necessary to leave a blind cell above H=200mm.

Insulator for connections

Description	Type	Order code	Pkg/ No. pcs
Horizontal insulator for XT1-XT2-XT3-XT4-T4	PITH1234	1STQ001474B0000	1/1
Horizontal insulator for T5	PITH5000	1STQ001475B0000	1/1
Horizontal insulator for T6/XT6	PITH6000	1STQ001476B0000	1/1
Vertical insulator for T6/XT6	PITV6000	1STQ001477B0000	1/1
Horizontal/Vertical insulator for T7-XT7-E1.2	PITE7120	1STQ001478B0000	1/1

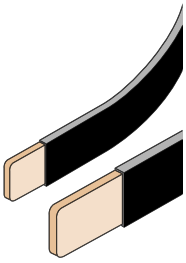
• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Main distribution system
Order codes



Busbar clamps
Kit for clamping flexible busbars to rigid busbars without forcing the flexible busbars.

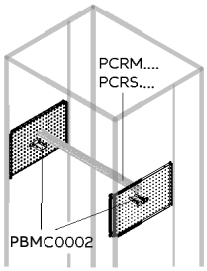
Description	Type	Order code	Pkg/ No.pcs
2 pairs of fixing plates for busbars H=40mm	BS3250	1STQ008219A0000	1/4
2 pairs of fixing plates for busbars H=50mm	BS5050	1STQ008220A0000	1/4
2 pairs of fixing plates for busbars H=63mm	BS6350	1STQ008221A0000	1/4



Busbar clamps
Kit for clamping flexible busbars to rigid busbars without forcing the flexible busbars.

Description	WxW (mm)	Dimensions (mm) L	In (A)	Type	Order code	Pkg/ No.pcs
No.2 flexible busbars	5x3	2000	160	PBFC0160	1STQ009175A0000	1/2
No.2 flexible busbars	20x3	2000	250	BF1602	1STQ008222A0000	1/2
No.2 flexible busbars	20x5	2000	400	BF2502	1STQ008223A0000	1/2
No.2 flexible busbars	24x6	2000	500	BF4002	1STQ008224A0000	1/2
No.2 flexible busbars	32x5	2000	630	BF4012[1]	1STQ008225A0000	1/2
No.2 flexible busbars	40x8	2000	1000	BF6302	1STQ008226A0000	1/2
No.2 flexible busbars	50x10	2000	1250	BF8002	1STQ008227A0000	1/2

[1] Only for circuit-breakers with extended front connections or rear connections.



Lateral connection module for terminal ditching
Lateral drilled module 25mm pitch for fixing the crosspieces with insulating supports in width from the intermediate upright up to the rear structural upright. In order to complete the terminals ditching it is necessary to order two lateral connection modules, which have to be fixed sideways.
The crosspieces PCRM .... or PCRS .... is fixed using the special fixing brackets for module connection PBMC0002. The crosspiece is to be chosen and ordered separately according to the width of the structure.

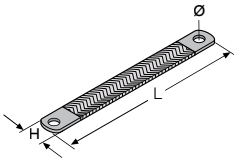
Description	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Lateral connection module	175	500	PMCS1755	1STQ009200A0000	1/1
Lateral connection module	200	500	PMCS2050	1STQ009201A0000	1/1
Lateral connection module	225	500	PMCS2255	1STQ009202A0000	1/1
Lateral connection module	250	500	PMCS2550	1STQ009203A0000	1/1
Lateral connection module	300	500	PMCS3050	1STQ009204A0000	1/1
Lateral connection module	175	700	PMCS1757	1STQ009205A0000	1/1
Lateral connection module	200	700	PMCS2070	1STQ009206A0000	1/1
Lateral connection module	225	700	PMCS2257	1STQ009207A0000	1/1
Lateral connection module	250	700	PMCS2570	1STQ009208A0000	1/1
Lateral connection module	300	700	PMCS3070	1STQ009209A0000	1/1
Lateral connection module	175	900	PMCS1759	1STQ009210A0000	1/1
Lateral connection module	200	900	PMCS2090	1STQ009211A0000	1/1
Lateral connection module	225	900	PMCS2259	1STQ009212A0000	1/1
Lateral connection module	250	900	PMCS2590	1STQ009213A0000	1/1
Lateral connection module	300	900	PMCS3090	1STQ009214A0000	1/1
No.2 fixing brackets connection module			PBMC0002	1STQ009215A0000	1/1

PMCS... not compatible with busbar connection bracket PBMC0003 or with the plate for busbar systems PBBU0008.
For details consult Chapter 7 - Examples of connections from circuit-breaker towards omnibus busbars.

• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

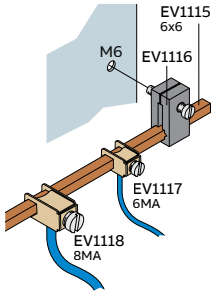
Main distribution system

Order codes



Cables for earthing

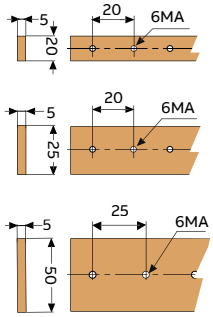
Description	Dimensions (mm) H	L	Type	Order code	Pkg/ No. pcs
No.5 earthing cables sect. 16mm	17	200	AA6840		1/5
No.5 earthing cables sect. 16mm	17	300	AA6850		1/5
No.5 earthing cables sect. 25mm	22	200	AA6880		1/5
No.5 earthing cables sect. 25mm	22	300	AA6890		1/5



Neutral/earthing copper busbars

Assembly by means of insulators EV1116 to uprights, cross-pieces, terminal box brackets and plates.

Description	Type	Order code	Pkg/ No. pcs
Neutral/earthing busbar 6x6mm W=2000mm	EV1115		1/1
No. 50 insulators for neutral/earthing busbar for EV1115	EV1116		1/50
No. 100 terminals for cable ø0.5-16mm2 for EV1115	EV1117		1/100
No. 100 terminals for cable ø4-35mm2 for EV1115	EV1118		1/100



Earthing copper busbars

Flat busbar, drilled and threated for earthing.

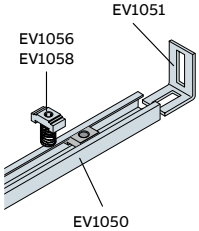
Description	Type	Order code	Pkg/ No.pcs
No. 2 drilled and threaded busbars 20x5mm L=2000mm	EV1119	1STQ001014A0000	1/2
No. 2 drilled and threaded busbars 25x5mm L=2000mm	EV1120	1STQ001015A0000	1/2
No. 2 drilled and threaded busbars 50x5mm L=2000mm	EV1121	1STQ001016A0000	1/2



EV1122-EV1123
EV1124-EV1125

Insulators

Description	Type	Order code	Pkg/ No.pcs
No.50 hexagonal insulators 30x30mm M6	EV1122	1STQ001017A0000	1/50
No.50 hexagonal insulators 30x30mm M8	EV1123	1STQ001018A0000	1/50
No.25 hexagonal insulators 36x50mm M6	EV1124	1STQ001019A0000	1/25
No.25 hexagonal insulators 36x50mm M8	EV1125	1STQ001020A0000	1/25



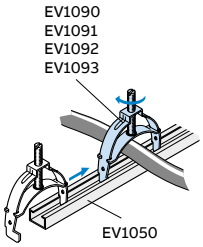
Sliding aluminium rails for general purposes

Description	Type	Order code	Pkg/ No.pcs
No. 10 aluminium sectionso 30x15x1,8 - L=2000mm	EV1050	1STQ000981A0000	1/10
No. 25 fixing brackets for EV1050	EV1051	1STQ000982A0000	1/25
No. 100 M6 aluminium nuts for EV1050	EV1056	1STQ000983A0000	1/100
No. 100 M8 aluminium nuts for EV1050	EV1058	1STQ000984A0000	1/100

• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Main distribution system

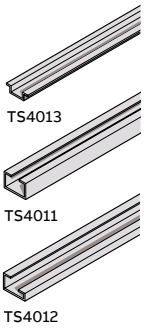
Order codes



Brackets for anchoring cables

Adjustable cable clamping bracket. Can be mounted on sections with 10mm slot EV1050.

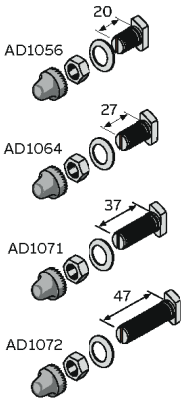
Description	Type	Order code	Pkg/ No.pcs
No.10 cable clamping brackets Ø9÷16mm min÷max	EV1090	1STQ000999A0000	1/10
No.10 cable clamping brackets Ø16÷30mm min÷max	EV1091	1STQ001000A0000	1/10
No.5 cable clamping brackets Ø30÷48mm min÷max	EV1092	1STQ001001A0000	1/5
No.5 cable clamping brackets Ø48÷72mm min÷max	EV1093	1STQ001002A0000	1/5



Profiles for accessories

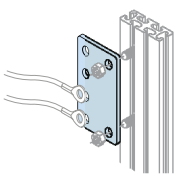
Universal profiles of different types for mounting any component or for cable locking.

Description	Dimensions (mm) L	Type	Order code	Pkg/ No.pcs
No. 2 EN sections 5002 C30	2000	TS4011	1STQ008211A0000	1/2
No. 2 EN sections G32	2000	TS4012	1STQ008212A0000	1/2
No. 2 DIN EN sections 5022 35x7.5	2000	TS4013	1STQ008213A0000	1/2



Hammer-head screws for shaped profile busbars

Description	Type	Order code	Pkg/ No.pcs
No.12 screws M8 - L=20mm for cable terminals	AD1056	1STQ008214A0000	1/12
No.12screws M8 - L=27mm for plates up to 10mm, complete with screw cap	AD1064	1STQ008215A0000	1/12
No.12 screws M8 - L=37mm for plates up to 20mm, complete with screw cap	AD1071	1STQ008216A0000	1/12
No.12 screws M8 - L=47mm for plates up to 30mm, complete with screw cap	AD1072	1STQ008217A0000	1/12



Couplings for shaped profile busbars

Description	Type	Order code	Pkg/ No.pcs
No.4 400A branch connectors in copper	AD1077	1STQ008218A0000	1/4

• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

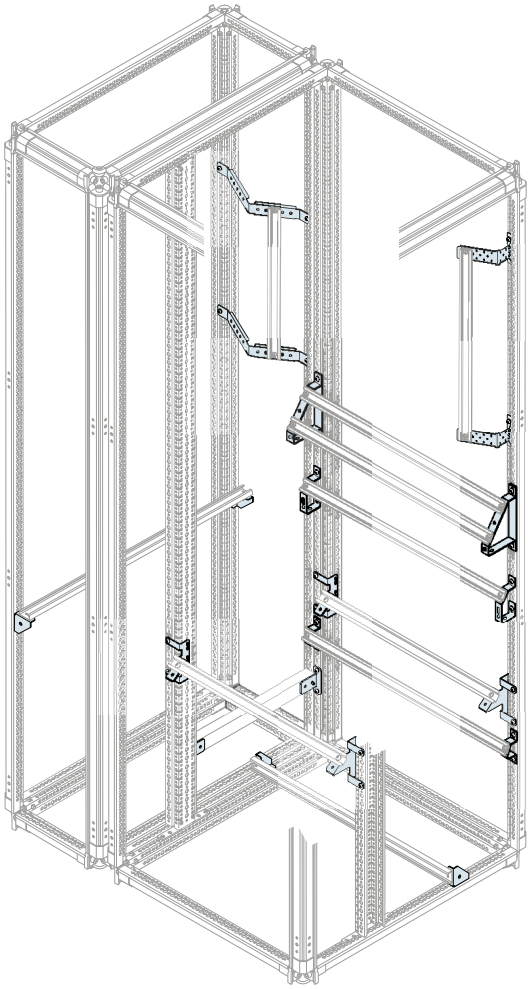
Main distribution system

Order codes

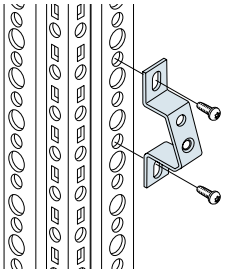
Plates for terminal boxes, earthing busbars and universal plates

Description	Type	Order code	Pkg/ No.pcs
No.10 angled supports 1 row of terminals	EV2110 (1)	1STQ003202A0000	1/10
No.50 angled supports 1 row of terminals	EV1110 (1)	1STQ001007A0000	1/50
No.2 angled supports 1 row of terminals + earth	EV1113 (1)	1STQ003737A0000	1/2
No.10 angled supports 1 row of terminals + earth	EV2112 (1)	1STQ003203A0000	1/10
No.50 angled supports 1 row of terminals + earth	EV1112 (1)	1STQ001009A0000	1/50
No.10 angled supports double row of terminals	EV1111 (1)	1STQ001008A0000	1/10
2 (two) supports for horizontal terminal box tilted 45° (assembly on structure uprights and intermediate upright)	AD1041	1STQ001459B0000	1/2
4 (four) supports for vertical terminal box (assembly on structure uprights and intermediate upright)	AD1055	1STQ001461B0000	1/4
2 (two) supports for vertical terminal box in D=300mm structure or external cable compartment L=300mm	AD1099 (2)		1/2
2 (two) supports for vertical terminal box in internal cable compartment L=200mm	AD1005 (3)		1/2
2 (two) universal "T" plates	PBBS0001	1STQ002146B0000	1/2
2 (two) universal "L" plates	PBBS0020	1STQ002333B0000	1/2

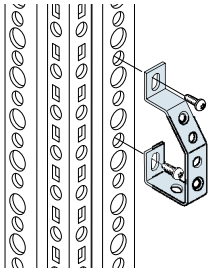
(1) Assembly on structure uprights and intermediate upright using external holes
(2) Assembly on structure upright using internal holes.
(3) Assembly on structure upright/internal cable compartment using external holes.



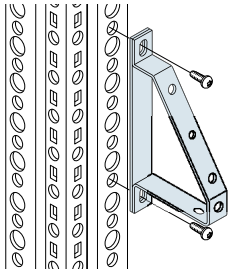
EV2110 - EV1110



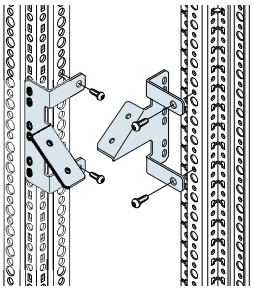
EV1113 - EV2112



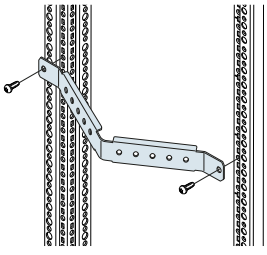
EV1111



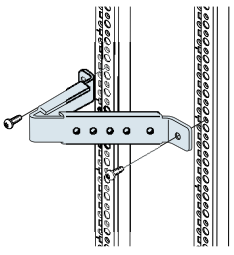
AD1041



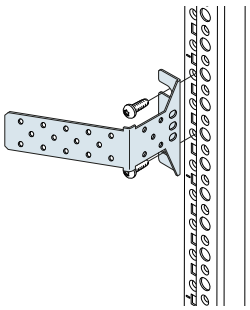
AD1099
Struttura P=300mm o vano cavi esterno L=300mm



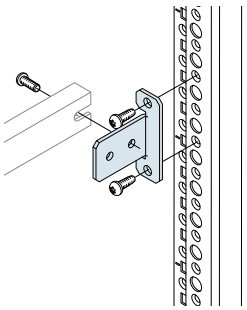
AD1005
Vano cavi interno L=200mm



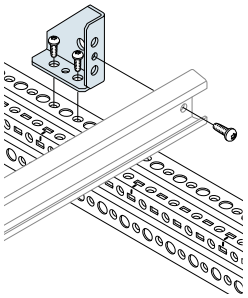
AD1055



PBBS0001

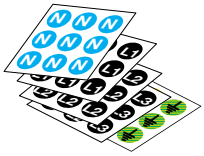


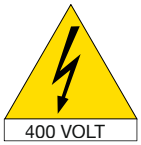
PBBS0020



• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Main distribution system
Order codes







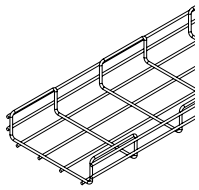
Labels

Description	Type	Order code	Pkg/ No.pcs
No.490 ø12mm adhesive labels with N symbol	EV1150	1STQ001033A0000	1/490
No.490 ø12mm adhesive labels with L1 symbol	EV1151	1STQ001034A0000	1/490
No.490 ø12mm adhesive labels with L2 symbol	EV1152	1STQ001035A0000	1/490
No.490 ø12mm adhesive labels with L3 symbol	EV1153	1STQ001036A0000	1/490
No.490 ø12mm adhesive labels with T symbol	EV1154	1STQ001037A0000	1/490
No.10 triangular 125mm adhesive labels with 400V lightning flash symbol	EV1155	1STQ001038A0000	1/10
No.300 triangular 20mm adhesive labels with lightning flash symbol	EV1156	1STQ001039A0000	1/300

• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

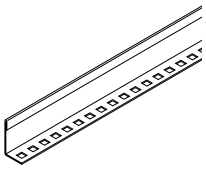
Main distribution system

Metal wiring ducts - Order codes



Steel wire sendzimir painted trays W=3000mm

Description	Type	Order code	Pkg/ No.pcs
H=35mm			
Straight element B 75mm	1SL9816A00	1SL9816A00	24
Straight element B 100mm	1SL9817A00	1SL9817A00	24
Straight element B 150 mm	1SL9818A00	1SL9818A00	24
Straight element B 200mm	1SL9819A00	1SL9819A00	12
Straight element B 300mm	1SL9820A00	1SL9820A00	12
H=50mm			
Straight element B 75mm	1SL9836A00	1SL9836A00	24
Straight element B 100mm	1SL9037A00	1SL9037A00	24
Straight element B 150 mm	1SL9838A00	1SL9838A00	24
Straight element B 200mm	1SL9839A00	1SL9839A00	12
Straight element B 300mm	1SL9840A00	1SL9840A00	12
Straight element B 400mm	1SL9841A00	1SL9841A00	6
Straight element B 500mm	1SL9842A00	1SL9842A00	6
H=75mm			
Straight element B 75mm	1SL9860A00	1SL9860A00	24
Straight element B 100mm	1SL9861A00	1SL9861A00	24
Straight element B 150 mm	1SL9862A00	1SL9862A00	24
Straight element B 200mm	1SL9863A00	1SL9863A00	12
Straight element B 300mm	1SL9864A00	1SL9864A00	12
Straight element B 400mm	1SL9865A00	1SL9865A00	6
Straight element B 500mm	1SL9866A00	1SL9866A00	6



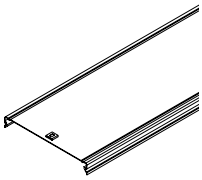
Straight sendzimir separator sections

Description	Type	Order code	Pkg/ No.pcs
Separator section W 2000 mm for trays H 35 mm	1SL9904A00	1SL9904A00	1/20
Separator section W 2000 mm for trays H 50 mm	06652	06652	1/20
Separator section W 2000 mm for trays H 75 mm	07855	07855	1/20

• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Main distribution system

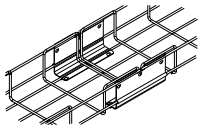
Metal wiring ducts - Order codes



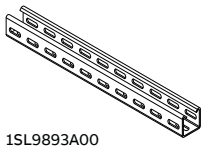
Sendzimir covers W=3000mm

Description	Type	Order code	Pkg/ No.pcs
Straight cover B 75mm	07241	07241	24
Straight cover B 100mm	07242	07242	24
Straight cover B 150mm	07243	07243	24
Straight cover B 200mm	07244	07244	12
Straight cover B 300mm	07245	07245	12
Straight cover B 400mm	07246	07246	6
Straight cover B 500mm	07247	07247	6

1SL9907A00-1SL9886A0
1SL9887A000



1SL9910A00÷1SL9915A00



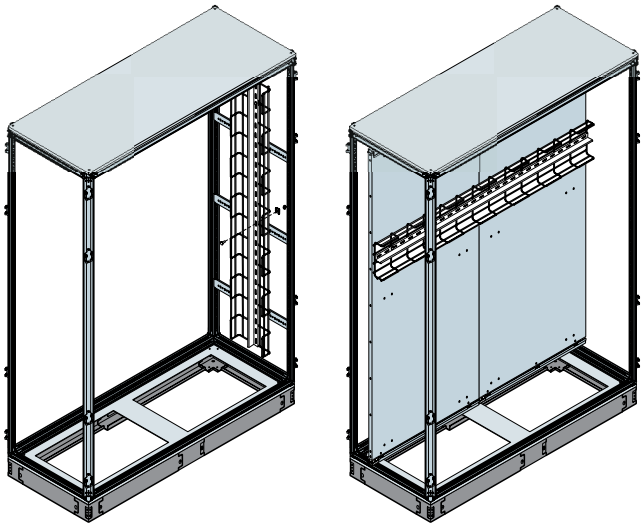
1SL9893A00



Accessori in Sendzimir

Description	Type	Order code	Pkg/ No.pcs
Linear joint	1SL9880A00	1SL9880A00	1/2
Snap-on linear joint for trays H 35mm	1SL9907A00	1SL9907A00	1/2
Snap-on linear joint for trays H 50mm	1SL9886A00	1SL9886A00	1/2
Snap-on linear joint for trays H 75mm	1SL9887A00	1SL9887A00	1/2
Fixing element for shelf complete with screws	1SL9893A00	1SL9893A00	1/10
Crosspiece L 150mm for trays B 75-100mm	1SL9910A00	1SL9910A00	1/10
Crosspiece L 200mm for trays B 150mm	1SL9911A00	1SL9911A00	1/10
Crosspiece L 250mm for trays B 200mm	1SL9912A00	1SL9912A00	1/10
Crosspiece L 350mm for trays B 300mm	1SL9913A00	1SL9913A00	1/10
Crosspiece L 450mm for trays B 400mm	1SL9914A00	1SL9914A00	1/10
Crosspiece L 550mm for trays B 500mm	1SL9915A00	1SL9915A00	1/10

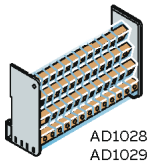
Note: The steel wire trays are also available in the following versions: unpainted sendzimir; electro-galvanisation; hot galvanisation after processing.

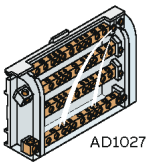


• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Main distribution system

Mounting accessories - Order codes

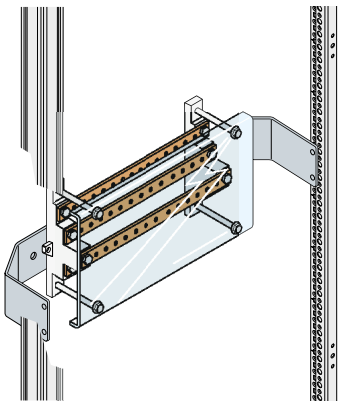

AD1028
AD1029


AD1027

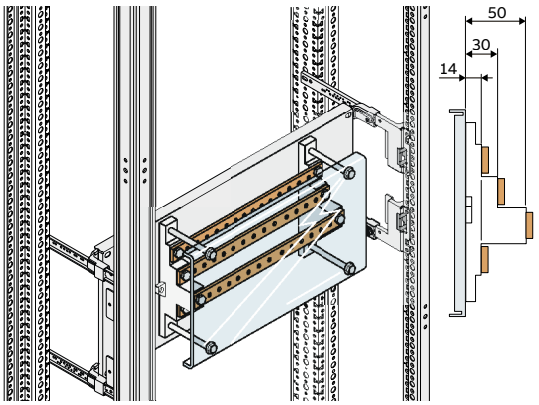
Modular dividers

Description	Type	Order code	Pkg/ No.pcs
Four-pole			
Modular 125A	AD1004	**1STQ008291A0000**	1/1
Modular 125A - 93x89x48mm (HxWxD)	AD1028	**1STQ008295A0000**	1/1
Modular 125A - 96x126x48mm (HxWxD)	AD1029	**1STQ008296A0000**	1/1
Modular 160A - 90x160.5x50mm (HxWxD)	AD1027	**1STQ008294A0000**	1/1
Horizontal 250A for structure W = 600mm	AD1034	**1STQ008345A0000**	1/1
Horizontal 250A for structure W = 800mm	AD1053	**1STQ008346A0000**	1/1
Fixing brakets			
No.2 Fixing brakets for AD1034-AD1053	PBRF3453	**1STQ0091840000**	1/2

AD1034 - AD1053
Assembly with fastening brackets PBRF3453

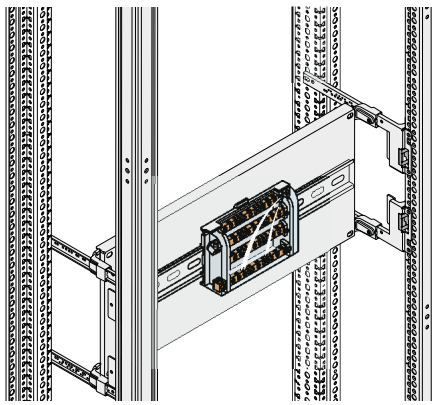


AD1034 - AD1053
Assembly on plate H=200/250/300mm



Maximum fixing position of hole plate n ° 11 of the bracket.

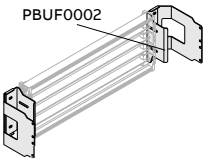
AD1027
Assembly on plate with DIN 35 rail

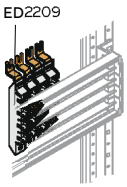


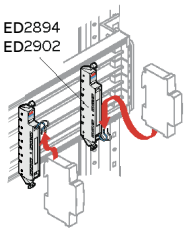
• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

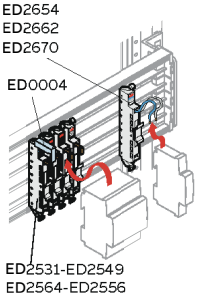
Main distribution system

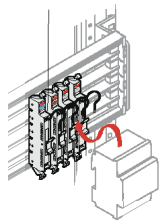
Unifix - Order codes

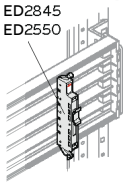












Unifix H

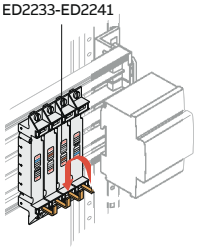
Description	Dimensions W (mm)	Type	Order code	Pkg/ No. pcs
No.2 brackets for fixing Unifix to structure		PBUF0002	1STQ008117A0000	1/2
Frames for Tmax and modular circuit-breakers - System pro M				
Frames with 24 busbars DIN modules	600	ED2183	1STQ008228A0000	1/1
Frames with 36 busbars DIN modules	800	ED2191	1STQ008229A0000	1/1
Feeder modules				
4P 400A feeder module (for ED2183-ED2191)		ED2209	1STQ008230A0000	1/1
MDRC-Various equipment- Basic module In 16A				
Basic module for auxiliaries DIN L1-N high 16A		ED2894	1STQ008255A0000	1/1
Basic module for auxiliaries DIN L1-L2 high 16A		ED2902	1STQ008256A0000	1/1
SN201 - DS901L - Basic module In 40A				
Basic module L1/Neutral high 40A		ED2654	1STQ008248A0000	1/1
Basic module L2/Neutral high 40A		ED2662	1STQ008249A0000	1/1
Basic module L3/Neutral high 40A		ED2670	1STQ008250A0000	1/1
S200 - DS200 - Basic module In 63A				
Basic module L1 high 63A		ED2531	1STQ008231A0000	1/1
Basic module L2 high 63A		ED2549	1STQ008232A0000	1/1
Basic module L3 high 63A		ED2556	1STQ008238A0000	1/1
Basic module Neutral high 63A		ED2564	1STQ008243A0000	1/1
S200 (80-100A) - E200 up to 100A - F200 80/100A (Unifix H) - Basic module In 100A				
Basic module with cable L1 high 100A		ED2720	1STQ008251A0000	1/1
Basic module with cable L2 high 100A		ED2738	1STQ008252A0000	1/1
Basic module with cable L3 high 100A		ED2746	1STQ008253A0000	1/1
Basic module with Neutral cable high 100A		ED2753	1STQ008254A0000	1/1
S800 - Basic modules ≤ In 40A				
Basic module L1 high ≤40A		ED2557	1STQ008239A0000	1/1
Basic module L2 high ≤40A		ED2558	1STQ008240A0000	1/1
Basic module L3 high ≤40A		ED2559	1STQ008241A0000	1/1
Basic module Neutral high ≤40A		ED2560	1STQ008242A0000	1/1
S800 - Basic modules ≤ In 125A				
Basic module L1 high 125A		ED2551	1STQ008234A0000	1/1
Basic module L2 high 125A		ED2552	1STQ008235A0000	1/1
Basic module L3 high 125A		ED2553	1STQ008236A0000	1/1
Basic module Neutral high 125A		ED2554	1STQ008237A0000	1/1
Basic module pole blank L=27mm		ED2550	1STQ008233A0000	1/1

• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

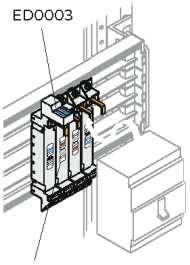
Main distribution system

Unifix - Order codes

ED2217-ED2225
ED2233-ED2241

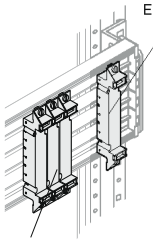


ED0003



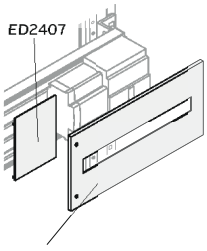
ED2290-ED2308
ED2316-ED2324

ED2373

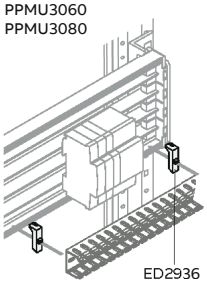


ED2381

ED2407



PPMU3060
PPMU3080



ED2936

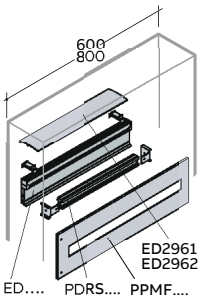
Unifix H

Description	Type	Order code	Pkg/ No. pcs
Basic modules ≤ In 160A Tmax XT1 (front terminals FCCuAl)			
Basic module L1 high L2 low	ED2217	1STQ008263A0000	1/1
Basic module L2 high L1 low	ED2225	1STQ008264A0000	1/1
Basic module L3 high Neutral low	ED2233	1STQ008265A0000	1/1
Basic module Neutral high L3 low	ED2241	1STQ008266A0000	1/1
Basic module pole blank for residual current release	ED2373	1STQ008279A0000	1/1
Basic module pole blank for solenoid operating mechanism	ED2381	1STQ008280A0000	1/1
Basic modules ≤ I 250A Tmax XT3			
Basic module L1 high	ED2290	1STQ008271A0000	1/1
Basic module L2 high	ED2308	1STQ008272A0000	1/1
Basic module L3 high	ED2316	1STQ008273A0000	1/1
Basic module N high	ED2324	1STQ008274A0000	1/1
Basic module pole blank for residual current release	ED2373	1STQ008279A0000	1/1
Accessories			
Basic module pole blank for DDA W=17.5mm	ED2845	1STQ008283A0000	1/1
Basic module pole blank for MDRC modular units	ED2852	1STQ008284A0000	1/1
No.2 IP20 covers (for ED2183-ED2191) W=173mm (10 DIN mod.)	ED2407	1STQ008282A0000	1/2
No. 6 duct supports 40x60mm (only with modular apparatus)	ED2936	1STQ008285A0000	1/6
Modular front panel 300x600mm (HxW)	PPMU3060	1STQ008299A0000	1/1
Modular front panel 300x800mm (HxW)	PPMU3080	1STQ008300A0000	1/1
Spare parts			
No.10 terminal covers for T3	ED0003	1STQ008261A0000	1/10
No.10 terminal covers for S200/F200	ED0004	1STQ008262A0000	1/10

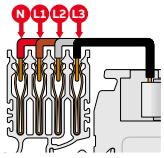
• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

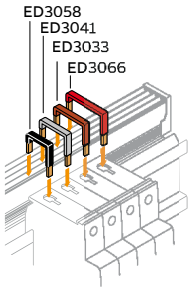
Main distribution system

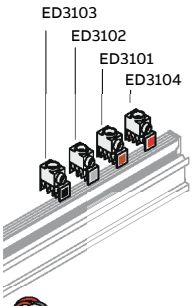
Unifix - Order codes

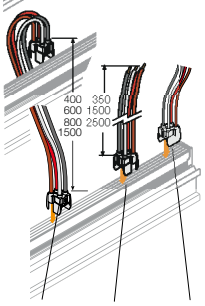


4 poles









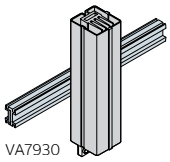
Unifix L

Description	Dimensions W (mm)	Type	Order code	Pkg/ No. pcs
4-pole busbars				
100A 4P busbar 12 modules	400	ED2944	1STQ008307A0000	1/1
100A 4P busbar 18 modules	450	ED2951	1STQ008308A0000	1/1
100A 4P busbar 24 modules	600	ED2969	1STQ008311A0000	1/1
100A 4P busbar 36 modules	800	ED2977	1STQ008312A0000	1/1
MDRC - Connections for various equipment				
CConnection with 2 conductors L1/N 40A		ED3355	1STQ008339A0000	1/6
Connection with 3 conductors L1/L2/L3 40A		ED3363	1STQ008340A0000	1/6
Connection with 4 conductors L1/L2/L3/N 40A		ED3371	1STQ008341A0000	1/1
SN201 - DS901L - Basic modules In 40A				
Connection L1-N 40 A		ED3272	1STQ008336A0000	1/10
Connection L2-N 40 A		ED3280	1STQ008337A0000	1/10
Connection L3-N 40 A		ED3298	1STQ008338A0000	1/10
S200 - DS200 - Basic modules In100A				
Connection L 1 100A		ED3033	1STQ008318A0000	1/10
Connection L 2 100A		ED3041	1STQ008319A0000	1/10
Connection L 3 100A		ED3058	1STQ008320A0000	1/10
Connection N 100A		ED3066	1STQ008321A0000	1/10
S200 (80-100A) - E200 up to 100A -Basic modules In 100A				
Feeder with cable 4P 100A (L=350mm)		ED3132	1STQ008335A0000	1/10
Feeder with cable 4P 100A (L=1500mm)		ED0026	1STQ008306A0000	1/10
Feeder with cable 4P 100A (L=2500mm)		ED0025	1STQ008305A0000	1/10
Feeder module with cable 16mm²				
4P 100A parallel module with cable (L=600mm)		ED3090	1STQ008323A0000	1/6
4P 100A parallel module with cable (L=800mm)		ED3413	1STQ008343A0000	1/6
4P 100A parallel module with cable (L=1500mm)		ED3439	1STQ008344A0000	1/6
Feeder module without cable In 100A				
Single-pole feeder modules L 1		ED3101	1STQ008324A0000	1/10
Single-pole feeder modules L 2		ED3102	1STQ008326A0000	1/10
Single-pole feeder modules L 3		ED3103	1STQ008328A0000	1/10
Single-pole feeder modules N		ED3104	1STQ008330A0000	1/10
Accessories				
No.10 busbar covers (L=600mm)		ED2961	1STQ008309A0000	1/10
No.2 busbar covers (L=800mm)		ED2962	1STQ008310A0000	1/2

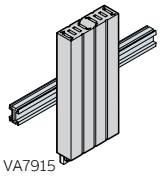
• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Main distribution system

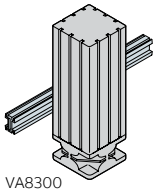
Temperature management - Order codes



VA7930
VA7950
VA7975
VA7910



VA7915



VA8300

Heater for IP20 electrical switchboards
Their use prevents condensation in the electric cabinets. They consist of a heating element (PTC thermistor) inserted in an aluminium alloy ground plate. The PTC thermistor is a component which modifies its impedance according to the operating temperature. It is intrinsically stable and ensures primary safety features for the heater and service stability.
The main qualities of the heaters using PTC are:

- electrical absorption (or dissipated power) which is almost constant in the range of power supply voltage between 100 and 250V;
- electrical absorption bound by inverse law to the trend of the ambient temperature.
- natural or forced ventilator with incorporated ventilator;
- ambient thermostad integrated in the heater (versions with forced ventilation).

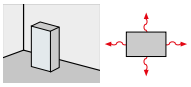
Snap-on assembly on 35 mm DIN rail. Requires a thermostat.

Description	Dimensions (mm) H	W	D	Type	Order code	Pkg/ No. pcs
Anti-condensation heater 30W, 110-240 Vac-dc	115	42	42	VA7930		1/1
Anti-condensation heater 50W, 110-240 Vac-dc	165	42	42	VA7950		1/1
Anti-condensation heater 75W, 110-240 Vac-dc	210	42	42	VA7975		1/1
Anti-condensation heater 100W, 110-240 Vac-dc	165	42	51	VA7910		1/1
Anti-condensation heater 150W, 110-240 Vac-dc	146	82	51	VA7915		1/1
Anti-condensation heater with fan 300W, 110-240 Vac 50-60H	148	82	91	VA8300		1/1

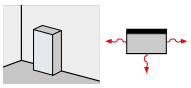
All the heaters with PTC absorb a higher power than the rated one on inrush according to a transitory which lasts a few tenths of a second.
If the heaters are to be supplied by means of an auxiliary transformer, its apparent power must be sized taking 1.5 times the rated power of the heaters with natural aeration and twice those with forced ventilation into consideration.

IEC 890 method for calculating the effective cooling surface (CEI 17-43 method)
The total power dissipation P of an enclosure is linked to the exchange effective dissipating surface S, the ΔT difference between the inner and outer temperature and the k coefficient of heat exchange relative to the material of the enclosure:
P = k * ΔT * S
k = 5,5 for painted steel
ΔT = T1-T2;
T1 = dew point temperature (on overage 25°C)
T2 = minimum ambient temperature.
The exchange surface S can be calculated using the following table taken from the CEI 17-43.

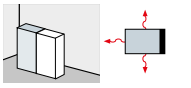
Detached, exposed on all sides



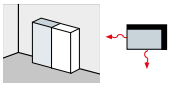
For closed to a wall structures



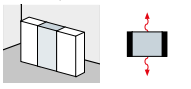
Left or right exposed structure



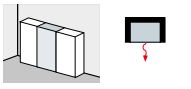
Left or right closed to a wall structure



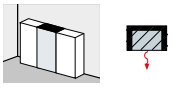
Central exposed structure



Central closed to a wall structure



Central closed to a wall structure, with covered roof



Disposition of the cabinet	Calculating the enclosure surface S (mm²)	Dimensions (m)
Detached, exposed on all sides	S = 1,8 x H x (L+P) + 1,4 x L x P	L = width H = height P = depth
For closed to a wall structures	S = 1,4 x L x (H+P) + 1,8 x P x H	
Left or right exposed structure	S = 1,4 x P x (H+L) + 1,8 x L x H	
Left or right closed to a wall structure	S = 1,4 x H x (P+L) + 1,4 x L x P	
Central exposed structure	S = 1,8 x L x H + 1,4 x L x P + P x H	
Central closed to a wall structure	S = 1,4 x L x (H+P) + P x H	
Central closed to a wall structure, with covered roof	S = 1,4 x L x H + 0,7 x L x P + P x H	

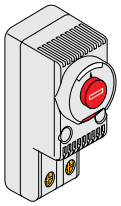
Using a ES1804K enclosure, in “for closed to a wall structures” case we will obtain:
T1 = 25 °C, T2 = 20 °C, K = 5,5, ΔT = (25-20) = 5 °C, S = 4,4m²

The total power dissipation P obtained will be:
P= k * ΔT * S = 121W
The recommended heater is VA7915 (150W).

• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Main distribution system

Temperature management - Order codes



IP20 Thermostat

Conforms to EN 60730-1, CE and cURus standards, IP20 degree of protection. Grey RAL 7035 colour; electrical life 100,000 cycles. Dimensions (HxWxD) 68x29x45mm, can be mounted on DIN rail. The version with NO (normally open) contact allows closure of a circuit activating ventilation, air conditioning, or alarms. The version with NC (normally closed) contact allows opening of a circuit, disconnecting any anti-condensation resistances.

Description	Standard power supply V~/50-60Hz		Type	Order code	Pkg/ No. pcs
NO ventilation thermostat	12-60 V d.c.; 110-250V a.c.		EN0101K		1/1
NC heating thermostat	12-60 V d.c.; 110-250V a.c.		EN0102K		1/1

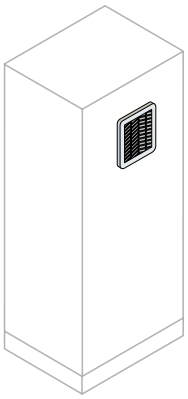
Technical information

		Contact capacity				
Type	Standard power supply ~ 50-60 Hz	Carico Ω	Carico L	Temperature scale	Type of contact	Weight
EN0101K	12-60 V d.c.; 110-250V a.c.	10A	2A	-10 +80 °C	NO	48g
EN0102K	12-60 V d.c.; 110-250V a.c.	10A	2A	-10 +80 °C	NO	48g

• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Main distribution system

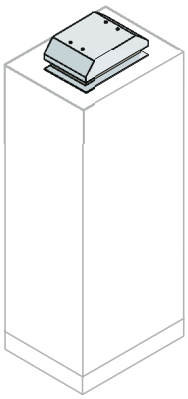
Temperature management - Order codes



Natural ventilation kit IP21 / 54 IP21/54
Grilles made of insulating material (ABS self-extinguishing UL94V-0) RAL7035 colour, complete with filter cloth with high dust accumulation capacity (600g/m2), able to reduce maintenance interventions (cleaning by washing with water or beating). IP21 degree of protection without filter, IP54 with filter according to CEI EN 60529 standard, Type 1 without filter, Type12 with filter according to UL approval 508 fitted with pre-mounted tightness gasket. CE and cURus (see mark) approval

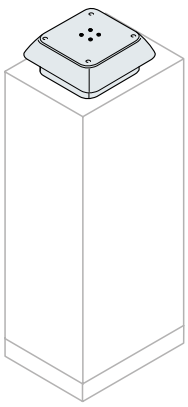
Air entry surface for ventilation		Dimensions (mm)					
Without filter cm²	With filter cm²	W	W		Type	Order code	Pkg/ No. pcs
Grille+air passage filter kit							
27	6	105	105		EN0105K		1/1
53	10	150	150		EN0150K		1/1
121	22	204	204		EN0204K		1/1
225	32	250	250		EN0250K		1/1
317	55	325	325		EN0325K*		1/1

* Per strutture L≥400mm o P≥500mm.



IP23 aeration hood
Structure made of steel painted RAL7035 colour, complete with selfadhesive gasket seal.
Useful aeration section 128 cm².

Description	Dimensions (mm) W	W	D	Type	Order code	Pkg/ No. pcs
Roof aeration kit	375	295	119	EN0481K		1/2

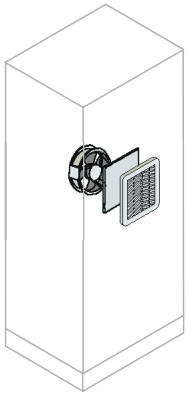


IP54 ventilation hood
Structure made up of plastic PC/ABS and aluminium (PC/ABS selfextinguishing according to UL 94V-0) painted RAL 7035 with polyuretanic foam gasket. CE and cURus approval.

Description	Dimensions (mm) W	W	D		Type	Order code	Pkg/ No. pcs
Roof aeration kit	375	295	119		EN0483K		1/2

Main distribution system

Temperature management - Order codes



Forced ventilation Kit IP21/54
Grilles made of insulating material (ABS self-extinguishing UL94V-0) RAL7035 colour, complete with filter cloth with high dust accumulation capacity (600g/m2), able to reduce maintenance interventions (cleaning by washing with water or beating). IP54 degree of protection with filter according to UL approval 508 fitted with pre-mounted tightness gasket.
Operating temperature -10 °C + 50 °C, for noise values see page 8-50. The fans allow reversible flow of air. CE and cURus (see mark) approval.

Assorbimento (W)	Portata (m^3/h)	Dimensions (mm) L	H		Type	Order code	Pkg/ No. pcs
Con ventilatore a 230V~							
10	23	105	105		EN1105K		1/1
20	57	150	150		EN1150K		1/1
23	120	204	204		EN1204K		1/1
59	240	250	250		EN1250K		1/1
59/72	520/580	325	325		EN2325K*		1/1
Con ventilatore a 115V~							
10	23	105	105		EN2105K		1/1
20	57	150	150		EN2150K		1/1
23	120	200	200		EN2204K		1/1
59	240	250	250		EN2250K		1/1
71/122	520/580	325	325		EN3325K*		1/1

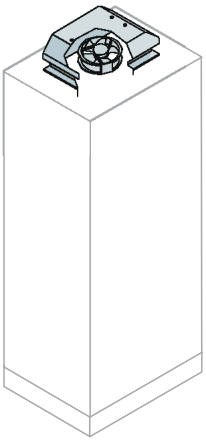
* For structures W≥400mm / D≥500mm.

In any forced ventilation kit, the fan wheel is balanced. In the larger sizes (cod. EN2325K and cod. EN3325K) there is the balancing clip.
The balanced fan wheel ensures less noise and absorption.

• Technical details page **7**–1 • Overall dimensions page **8**–1

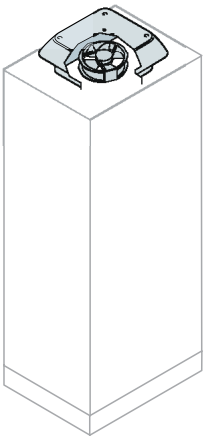
Main distribution system

Temperature management - Order codes



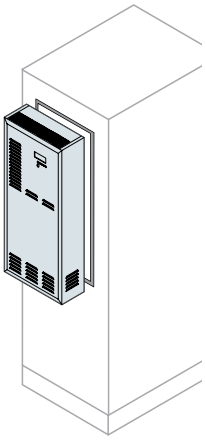
IP23 forced ventilation hood
Allows suction from the roof of the cabinet. RAL 7035 colour, complete with self-adhesive gasket; consumption 58/78W, capacity 550/590m3/h. Operating temperature from -20 °C to + 60 °C, noise 68/71dB(A).

Description	Dimensions (mm) L	P	H	Type	Order code	Pkg/ No. pcs
Ventilation hoods 230V - 50/60Hz	375	295	119	EN0480K		1/1
Ventilation hoods 115V - 50/60Hz	375	295	119	EN0482K		1/1



IP54 Forced ventilation hood
This hood allows the aspiration of the heat from the roof of the cabinet. Structure made up of plastic PC/ABS (PC/ ABS self-extinguishing according to UL 9V-0), with the top part in aluminium, painted RAL 7035 with polyuretanic foam gasket. CE omologation.

Description	Dimensions (mm) L	P	H	Type	Order code	Pkg/ No. pcs
Cappa di ventilazione 115V - 50/60Hz	324	324	94	EN0484K		1/1
Cappa di ventilazione 230V - 50/60Hz	324	324	94	EN0485K		1/1



Condizionatori per montaggio a parete IP54
Conditioners for structures W≥600mm.

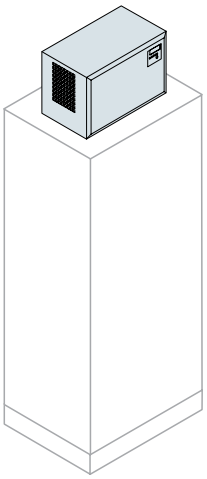
Dimensions (mm) H	W	D	Refrigerating yield (W)	Capacity (m^3/h) Evaporat.	Condens.	Assorbedpower (W)	Type	Order code	Pkg/ No. pcs
Wall mounting - Power supply 230V AC									
1025	380	198	605	380	400	330	VZ1550K		1/1
1025	380	198	810	350	400	400	VZ1850K		1/1
Wall mounting+switchboard - Power supply 230V AC									
1025	**380**	**198**	**1300**	**350**	**600**	**650**	VZ1400K		1/1
1200	**380**	**230**	**1926**	**500**	**950**	**800**	VZ2000K		1/1

The filters are not included.

• Technical details page **7**–1 • Overall dimensions page **8**–1

Main distribution system

Temperature management - Order codes

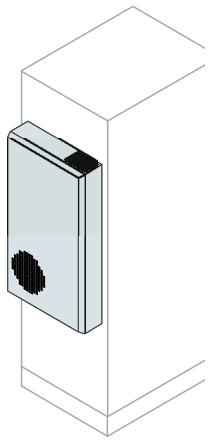


IP54 air conditioners for roof mounting

Conditioners for structures L≥800mm and P≥500mm.

Dimensions (mm)			Capacity (m^3/h)					Pkg/
H	W	D	Refrigerating yield (W)	Evaporat.	Condens.	Type	Order code	No. pcs
Roof mountingo- Power supply 230V AC								
350	600	400	810	350	400	VZ8501K		1/1
Roof mounting+switchboard- Power supply 230V AC								
350	600	400	1300	350	600	VZ1401K		1/1

The filters are not included.



IP54 heat exchangers (air-air) for wall mounting

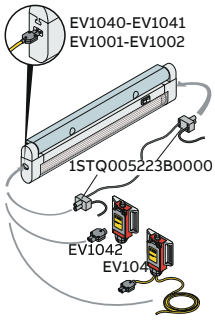
Dimensions (mm)			Refrigerating yield (W) internal	Flow rate (m^3/h) external			Pkg/
H	W	D			Type	Order code	No. pcs
Wall mounting- Power supply 230V AC							
710	370	130	35	200	VS4235K [1]		1/1
900	435	175	85	300	VS6285K [2]		1/1

[1] For structures W≥600mm
[2] For structures W≥600mm

• Technical details page **7**–1 • Overall dimensions page **8**–1

Main distribution system

Lighting - Order codes



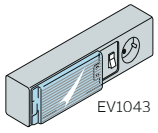
Led electronic lamp/fluorescent lamps

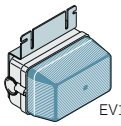
The electronic led lamps 3.6 W and 6.5 W and fluorescent lamps 8 W and 13 W are complete with mounting brackets and can be integrated with devices for voltage indicator.

The lamps have the following characteristics:

- Rotatable 180 degrees on the axis of the aluminum bracket
- Possibility of being mounted in series up to 5 elements (Fig. 1), the chain of lamps can be controlled by a single micro switch simplifying the installation and reducing the number of cables for connecting of the elements.

Moreover, the conformation of the electronic led lamps provides a very wide light emission and an increase of 70% compared to traditional lamps. So a lamp 8W is comparable with a 14W, and 13W with a version from 18/21W.





Description	Type	Order code	Pkg/ No. pcs
Led electronic lamp			
Led electronic lamp 3,6W-24V AC/DC L=342mm	EV1001		1/1
Led electronic lamp 6,5W-24V AC/DC L=574mm	EV1002		1/1
Fluorescent lamps			
Fluorescent lamp 8W-220/240V L=342mm	EV1040		1/1
Fluorescent lamp 13W-220/240V L=574mm	EV1041		1/1
Fluorescent lamp + socket 11W-230V L=355mm, complete with magnetic support	EV1043		1/1
Lamp holder			
Lamp holder E27 220V max 60W (without lamp)	EV1048		1/1

Accessories for lamps

Description	Type	Order code	Pkg/ No. pcs
System for positioning limit switch + connector (to be cabled) No.2 NC contacts	EV1042		1/1
No.5 universal bipolar power connectors	1STQ005223B0000		1/5
Two-pole cable L=10 metres	**EV1045**		1/1
Limit switch and cabled two-pole connector	EV1047*		1/1

* There are two cables L=1900mm and L=380mm in the pack.

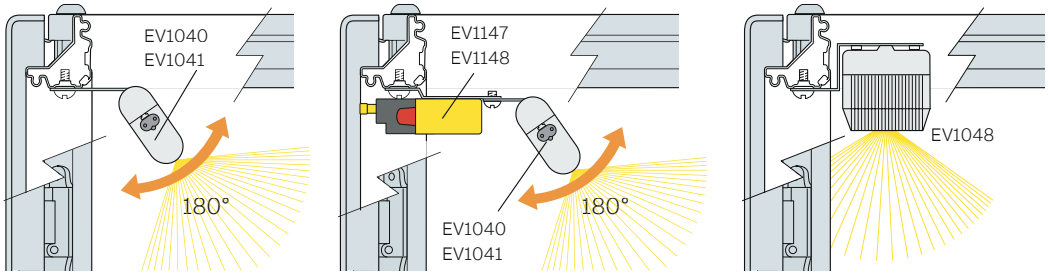
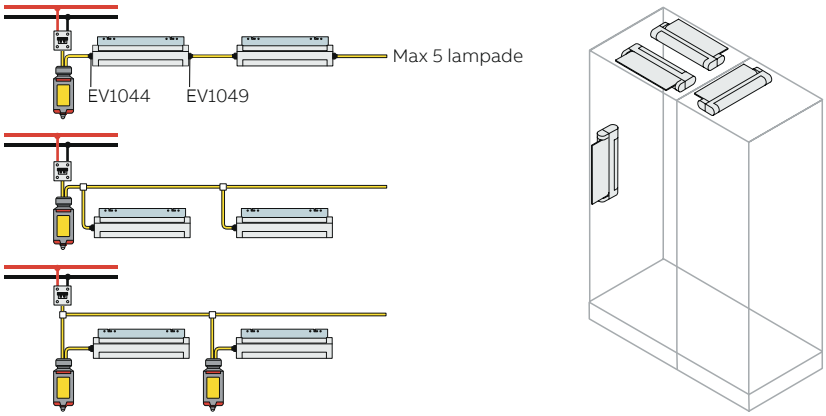


Fig. 1



• Quick selection guides page **4**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Chapter 5
Segregations

General information

5–2 **Segregations in accordance with Standard IEC 61459-1-2**

5–2 **Internal segregation kits**

5–4 **Segregation Form 2a - 3a**

5–6 **Segregation Form 2b -4a**

5–8 **Segregation Form 3b**

5–10 **Segregation Form 4b**

5–12 **Choice of segregation**

5–22 **Guide to the order codese**

5–23 **Order codes**

Segregation
General information

Segregations in accordance with Standard IEC 61439-1-2

Segregation form means the type of division inside the switchboard. Segregation by means of metal or insulating barriers or partitions may be required to:

- Provide protection against direct contacts (at least IPXXB) when a de-energized part of a switchboard must be accessed while the rest of it remains energized.
- Reduce the possibility of internal arc ignition and propagation.
- Prevent solid bodies from passing between different parts of the switchboard (protection class at least IP2X).

Partition means the element that separates two compartments while the barrier protects the operator from direct contact and from the effects of the arc of a switching device in the usual direction of access.

The partition can also be a casing that is an integral part of an apparatus, e.g. a moulded-case circuit-breaker.

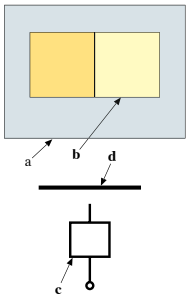
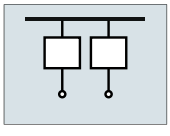
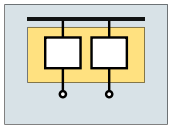
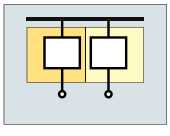
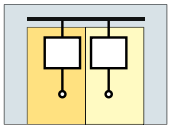
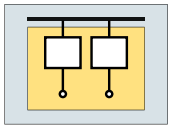
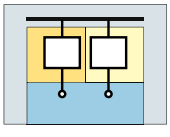
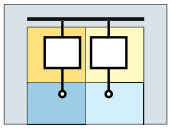
Internal segregation kits

The different segregation Forms, (Form 2a, 2b, 3a and 4b), that can be created in the new System pro E power main distribution switchboard are described in the following pages.
The descriptions include the following inFormation for each segregation Form:

- the basic conditions for its creation
- the various solutions
- the reference tables for the choice of codes

Generally speaking, the basic segregation Form of the circuit-breaker kits (Form 1) passes to Form 4b by adding different accessories in sequence, depending on the case in question.

The main innovation introduced by the new System pro E power segregation system concerns the kits for circuit-breakers with front (with high terminals*) and rear terminals for Form 2b.

Symbols	Form 1	Form 2	Form 3	Form 4
	No internal segregation	Segregation of busbars from all functional units	Segregation of busbars from all functional units. • Segregation of all functional units from each other • Segregation of the terminals for external conductors and the external conductors from the functional units, but not from the terminals of other functional units	Segregation of busbars from all functional units. • Segregation of all functional units from each other • Segregation of the terminals for external conductors associated with a functional unit from the terminals of any other functional unit and from the busbars • Segregation of the external conductors from the busbars • Segregation of the external conductors associated with a functional unit from other functional units and their terminals • The external conductors do not need to be separated from each other
		Form 2a The terminals for external conductors are not separated from the busbars	**Form 3a** The terminals for external conductors are not separated from the busbars	**Form 4a** he terminals for external conductors are in the same compartment as associated functional unit
				
		Form 2b The terminals for external conductors are separated from the busbars	**Form 3b** The terminals for external conductors and the external conductors are separated from the busbars	**Form 4b** The terminals for external conductors are not in the same compartment as associated functional unit but are in individual spaces or compartments, separated, enclosed and protected
Key a Empty enclosure b Internal segregation c Functional unit, including the terminals for the associated external conductors d Busbars, including the distribution busbars				



The segregation Form 2a - 3a, 3b and 4b can be reached with front terminals (with high terminal covers*) or rear terminals only for fixed circuit-breakers. With plug-in or withdrawable circuit-breakers the segregations can be built up with rear terminals. Using side by side moulded case circuit-breakers and moulded case circuit brackers with recessed mounting plate the highest segregation form reachable is Form 3a. The side by side air circuit-breakers are not segregated.**

The segregations mainly consist of horizontal or vertical shelves at the front or rear in relation to the intermediate upright, or throughout the width/depth of structures without the intermediate upright.

The intermediate upright is required for all segregation Forms differing from Form 2b, even when not needed by the circuit-breaker version.

Segregation **Forma 2a - 3a**, designed for structures with D≥500mm, is created with side closing elements for the compartment and universal horizontal shelves to install between kits with different depths (D≥38mm), and above and below the kit compositions (top and bottom). With IP3X protection degree and cable compartment internal door it is necessary to install a vertical segregation and the intermediate upright (1 pcs. for internal cable container, 2 pcs. for external cable container).

With IP65/IP4X and cable compartment internal door it is not necessary any further segregation. Blind compartments are specially created to fill the empty spaces inside the structure, while there are special closing segregations for DIN rails. The blind compartments are not suitable for fixing accessories. Install a blind bottom plate and panel if required. If the blind compartment is mounted in the first or in the last position into a column, the universal horizontal shelves cannot be mounted at the top or at the bottom.
Where the terminals are separated by the busbars, segregation **Form 2b** can be obtained by a combination of pre-cut or blind H=800/1000mm side walls that cover the structure at the side along its entire height and with horizontal and vertical shelves for busbar segregation in structures with or without intermediate upright, for external and internal cable compartments.
Some vertical walls are pre-cut so as to accommodate the busbars.
To guarantee protection class IP=20, they have TPV rubber seals that adhere perfectly to the removed parts. If the column requires the installation of intermediate uprights, the cable container shall have the intermediate upright (1 pcs. for internal cable container, 2 pcs. for external cable container). If the column does not require the installation of intermediate uprights, no intermediate uprights have to be mounted into the cable container.

Segregation **Form 3b** is obtained by segregating the busbars from all the functional units, adding dedicated accessories for the installation of horizontal or vertical circuit-breakers. The horizontal circuit-breakers are segregated by means of sliding vertical rear separators that divide the input and output terminals, while the vertical circuit-breakers have a modular horizontal separator. The busbar side is segregated by panels fixed to the sides and bottom of the structure between the uprights.
In case of segregation **Form 3b**, vertical breakers can be installed in the first available position under the top of the structure (top) or the last available position in the structure (bottom), with a maximum of two vertical breakers per column.

Segregation **Form 4b** is obtained for horizontal circuit-breakers by means of cubicles that completely isolate the circuit-breaker terminals. The rear part of the segregation is created by a Lexan panel fixed with a dedicated bshelfet and shelves, depending on the depth of the circuit-breaker.
Form 4b is obtained for vertical circuit-breakers by duplicating the codes of the vertical bottom segregations and vertical side segregations used for Form 3b, closing the circuit-breaker compartment and installing an additional vertical side segregation on the output side.

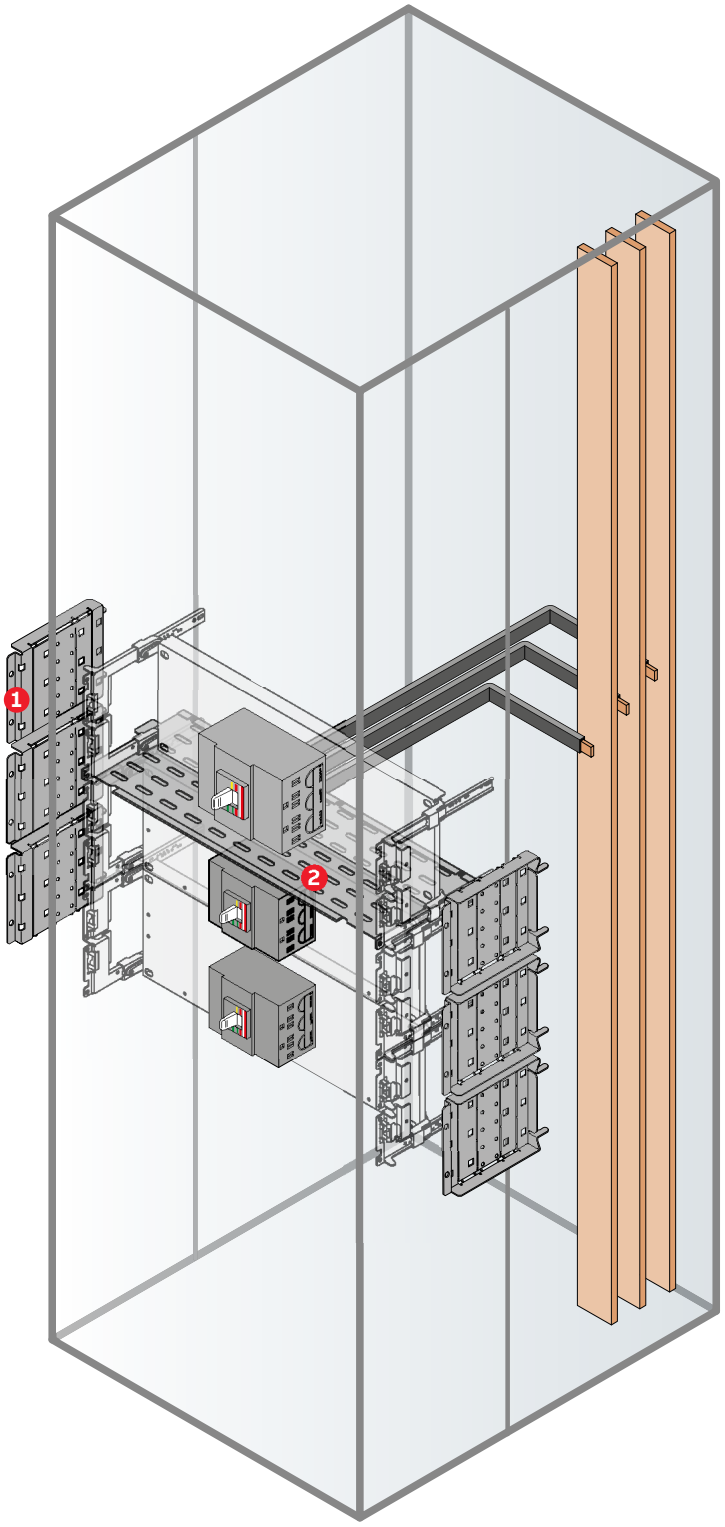
In **Form 3b** and **Form 4b** the intermediate upright is always mandatory (1 pcs. for internal cable container, 2 pcs. for external cable container).

* High terminal covers are available for all Tmax T/XT fixed and Emax E1.2 fixed, except for XT1, XT3 F-RC and kit PHBX3301, PHBX3401, PHBX4301, PHBX4401, PHBT4301, PHBT4406, PHBT5306, PHBT5406 and Tmax T6/T7 withdrawable and plug-in versions. For Tmax XT1/XT2/XT3/XT4 withdrawable and plug-in versions it is necessary to order the dedicated adapter covers for terminals. For Tmax T4/T5 withdrawable and plug-in versions it is necessary to order the dedicated high terminal covers for 3 or 4 poles.
** See table on pag. 3-16.

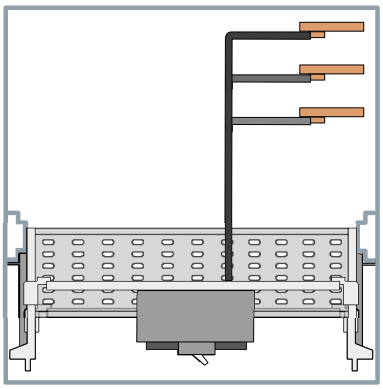


Structure
General information

Segregation Form 2a - 3a



1. Universal compartment side closing element PPVS....
2. Universal horizontal shelf PSHS.....



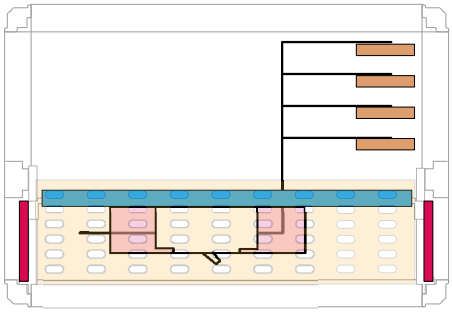
Examples of busbar use in the structure

— 01 Horizontal circuit-breaker with front terminals
— 02 Vertical circuit-breaker with front terminals
— 03 Horizontal cicuit-breaker with rear terminals
— 04 Vertical circuit-breaker with rear terminals
— 05 Horizontal circuit-breaker with front/rear terminals

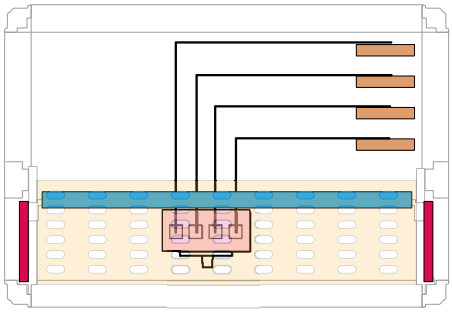
To obtain segregation Form 2a - 3a, use universal compartment side closing elements PPVS... and universal horizontal shelves PSHS.... under the

Structures with intermediate upright

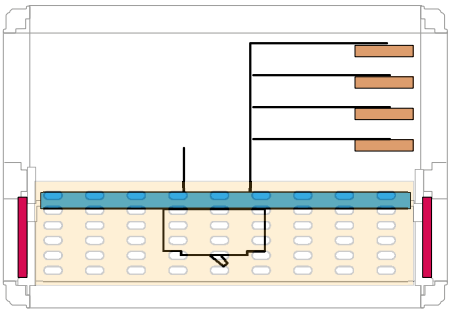
—
01



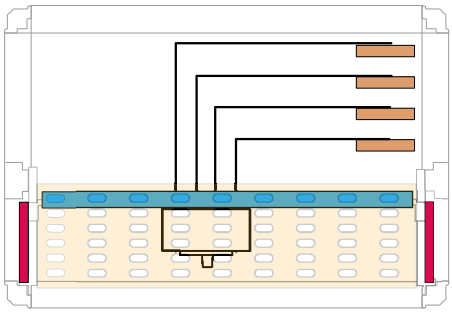
—
02



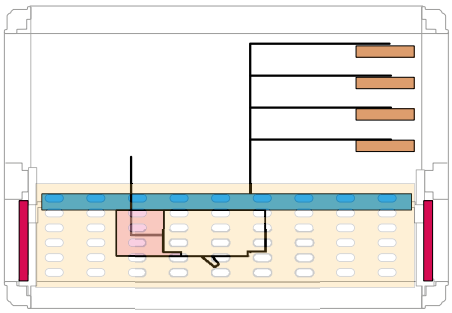
—
03



—
04



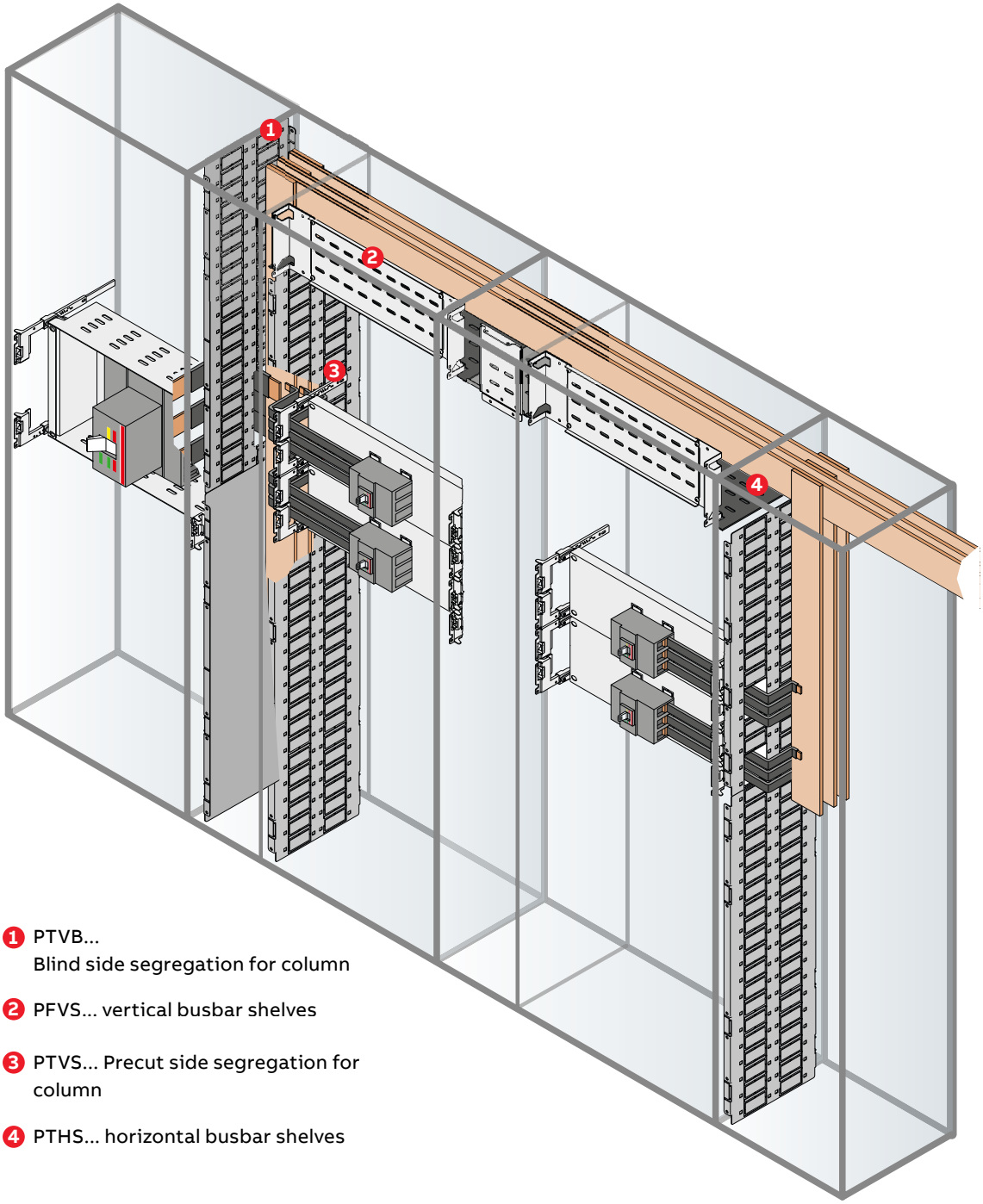
—
05



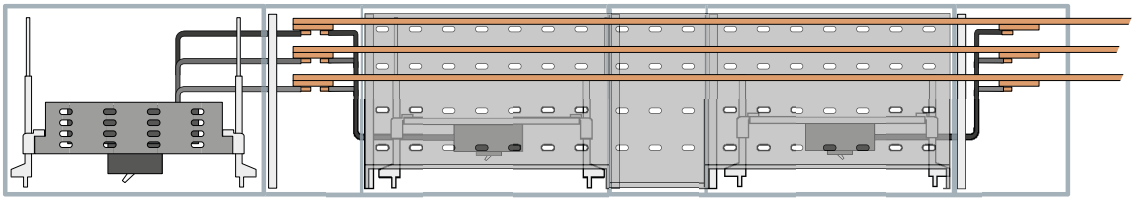
High terminal covers are available for all Tmax T/XT fixed and Emax E1.2 fixed, except for XT1, XT3 F-RC and kit PHBX3301, PHBX3401, PHBX4301, PHBX4401, PHBT4301, PHBT4406, PHBT5306, PHBT5406 and Tmax T6/T7 withdrawable and plug-in versions. For Tmax XT1/XT2/XT3/XT4 withdrawable and plug-in versions it is necessary to order the dedicated adapter covers for terminals. For Tmax T4/T5 withdrawable and plug-in versions it is necessary to order the dedicated high terminal covers for 3 or 4 poles.

Structure
General information

Segregation Form 2b/4a



1. PTVB...
   Blind side segregation for column
2. PFVS... vertical busbar shelves
3. PTVS... Precut side segregation for column
4. PTHS... horizontal busbar shelves

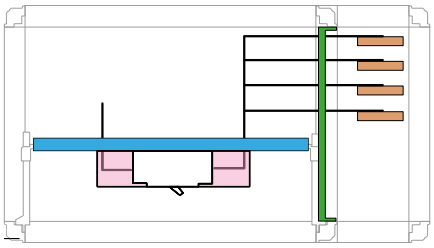


Examples of busbar use in the cable compartment

To obtain segregation Form 2b, use dedicated horizontal shelves PTHS.... and front segregations PFVS.... for the structure, internal cable compartment and external cable compartment. The busbars are segregated with precut PTVS... or blind PTVB... side segregations for columns, which can be full-depth for structures without intermediate uprights and divided into front and rear for structures with intermediate uprights. Terminal covers to be ordered with the circuit-breakers must be used for circuit-breakers with front terminals.

Structures with intermediate upright

—
01



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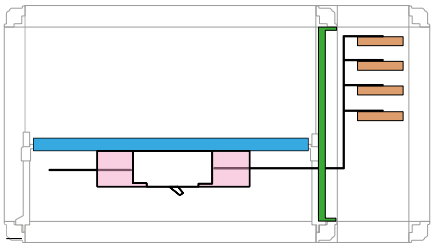
02



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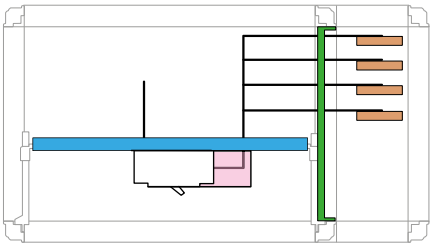
03



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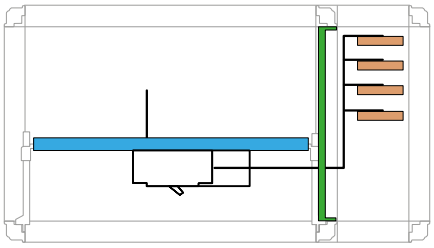
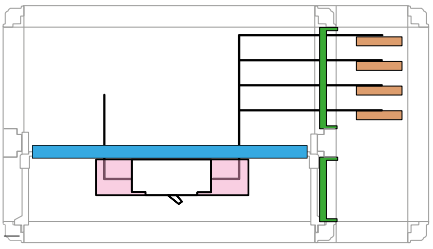
04

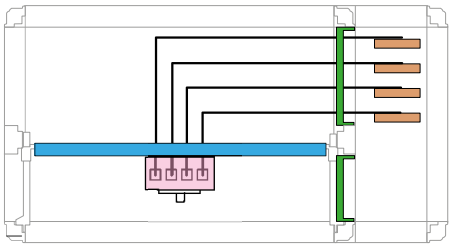


Structures with intermediate upright

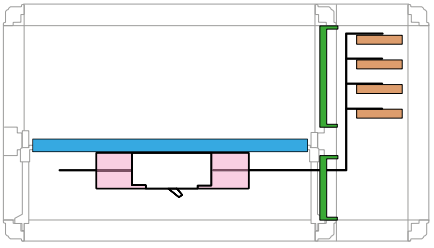
—
05



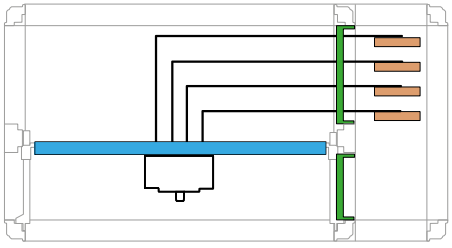
—
06



—
07



—
08



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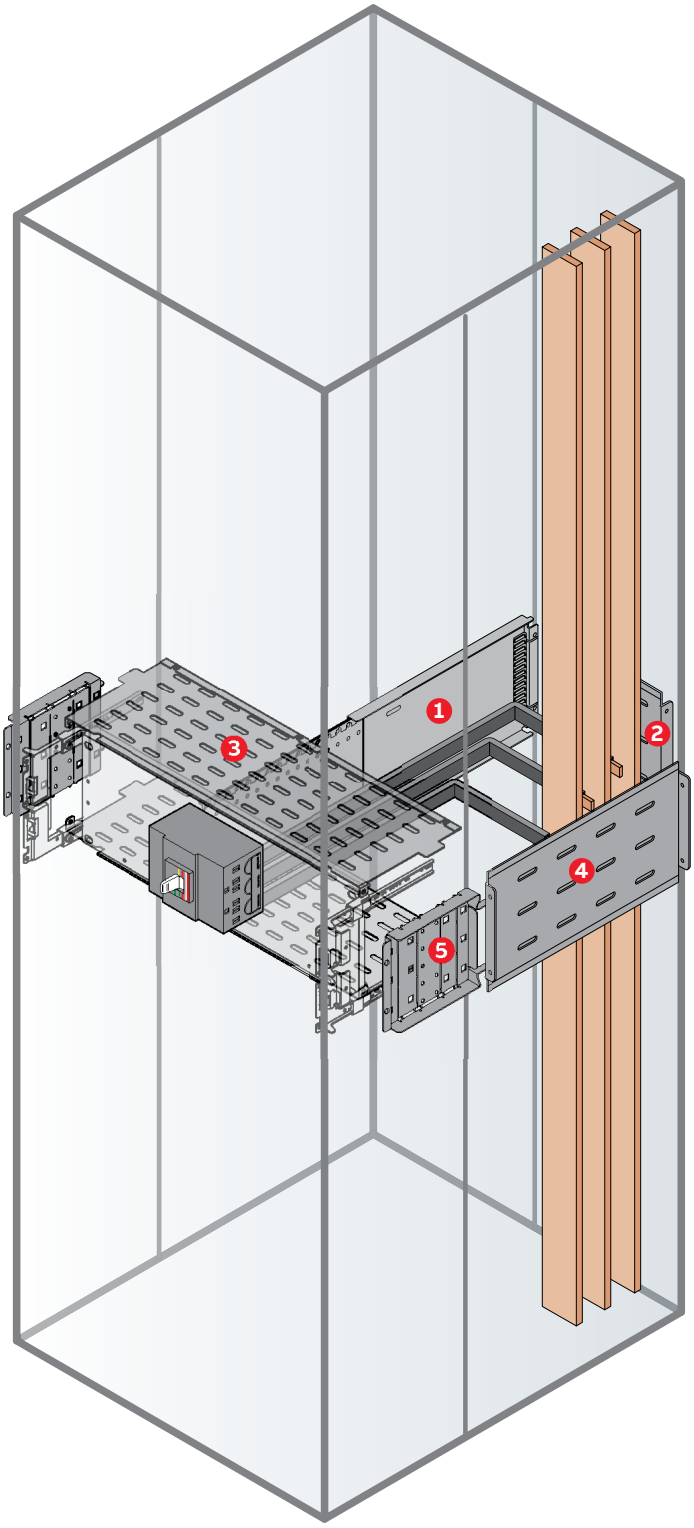
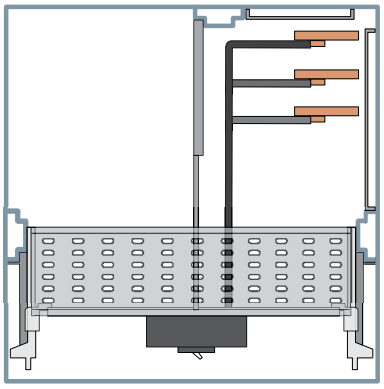
—
01 Horizontal circuit-breaker with front terminals rear outputs
—
02 Horizontal circuit-breaker with front terminals side outputs
—
03 Horizontal circuit-breaker with front/rear terminals
—
04 Horizontal circuit-breaker with front/rear terminals
—
05 Horizontal circuit-breaker with front terminals rear outputs
—
06 Vertical circuit-breaker with front terminals
—
07 Horizontal circuit-breaker with front terminals side outputs
—
08 Vertical circuit-breaker with rear terminals

Structure
General information

Segregation Form 3b



1. PSVS... Segregation for horizontal circuit-breaker
2. PSVS...1 Segregation for busbar side of horizontal circuit-breakers
3. PSHS... Universal horizontal shelf
4. PLVS... Vertical side segregation of horizontal circuit-breaker compartment
5. PPVS... Universal compartment side closing element



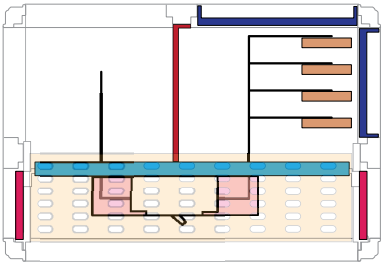
Examples of busbar use in the structure

3b segregation begins with the components used for Form 2a - 3a with the addition of elements to separate the circuit-breaker terminals: for horizontal circuit-breakers this is obtained by means of sliding plate PSVS... while for vertical circuit-breakers, a precut shelf, PSHS..., is used for the passage of busbars.
The busbar side must be isolated at the rear with PRVS...1 busbar side segregations and at the sides, with PLVS... side segregations.

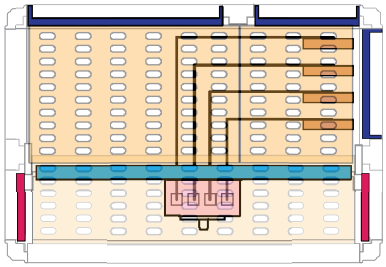
In case of segregation Form 3b, vertical breakers can be installed in the first available position under the top of the structure (top) or the last available position in the structure (bottom), with a maximum of two vertical breakers per column.

Structures with intermediate upright

—
03



—
02



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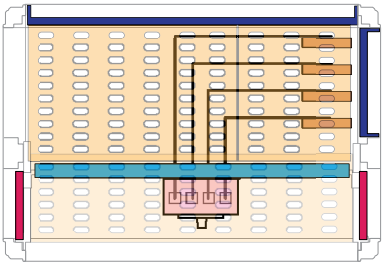

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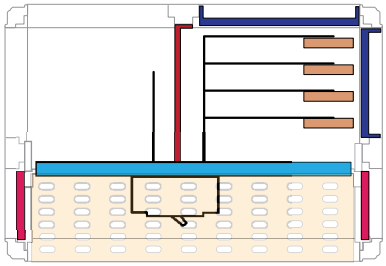

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05



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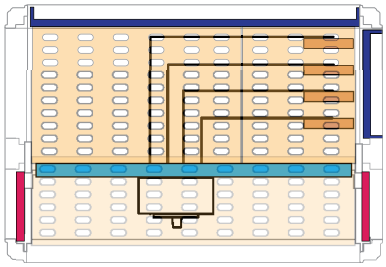
06



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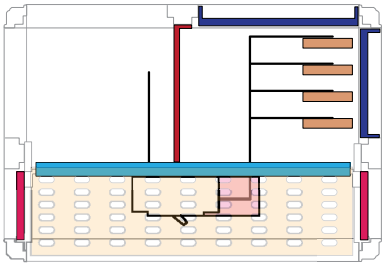


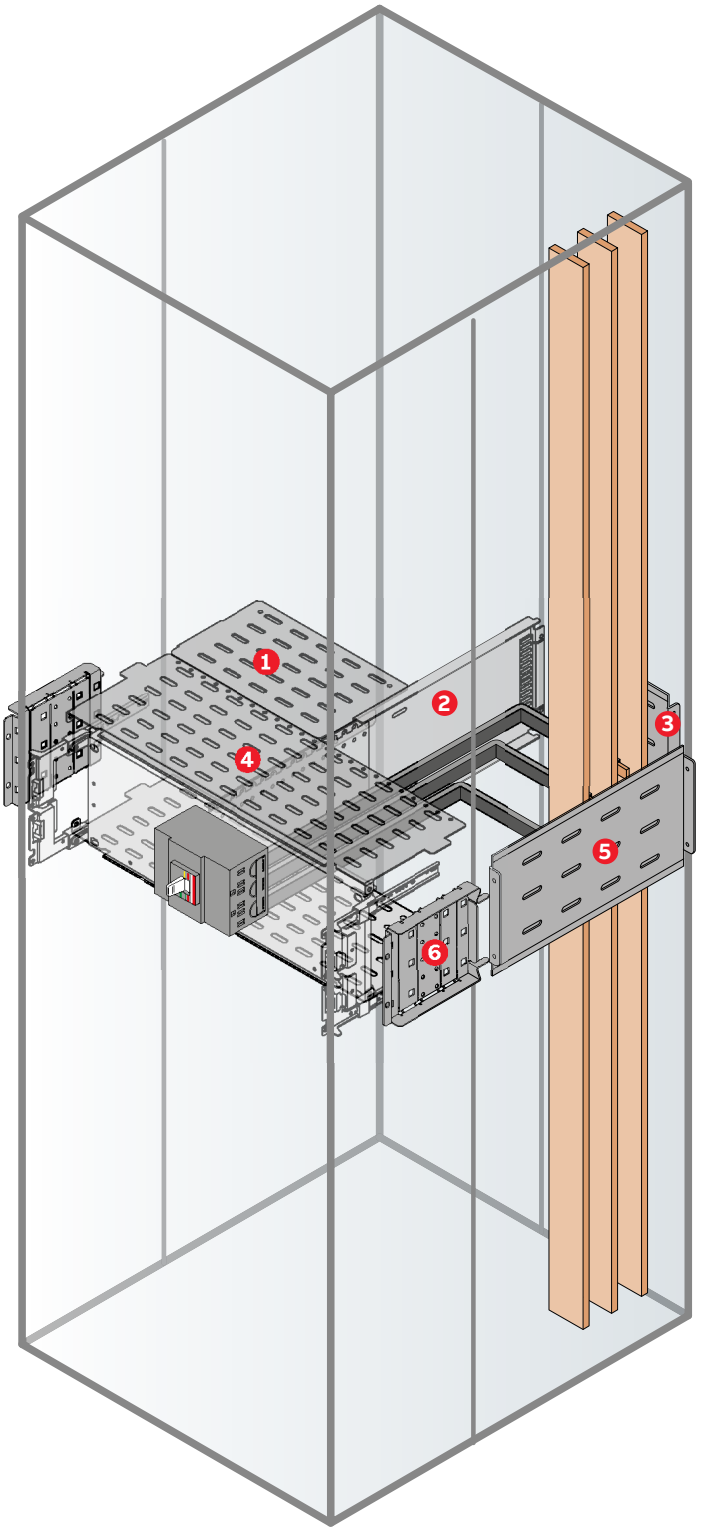
—
01 Horizontal circuit-breaker with front terminals
—
02 Vertical circuit-breaker with front terminals with rear intermediate upright*
—
03 Vertical circuit-breaker with front terminals
—
04 Horizontal circuit-breaker with rear terminals
—
05 Vertical circuit-breaker with rear terminals with rear intermediate upright*
—
06 Vertical circuit-breaker with rear terminals
—
07 Horizontal circuit-breaker with front/rear terminals

* The rear intermediate upright is used when with the vertical breaker also an horizontal breaker is installed in the same column.

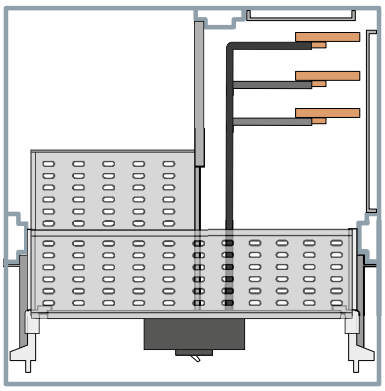
High terminal covers are available for all Tmax T/XT fixed and Emax E1.2 fixed, except for XT1, XT3 F-RC and kit PHBX3301, PHBX3401, PHBX4301, PHBX4401, PHBT4301, PHBT4406, PHBT5306, PHBT5406 and Tmax T6/T7 withdrawable and plug-in versions. For Tmax XT1/XT2/XT3/XT4 withdrawable and plug-in versions it is necessary to order the dedicated adapter covers for terminals. For Tmax T4/T5 withdrawable and plug-in versions it is necessary to order the dedicated high terminal covers for 3 or 4 poles.

Structure
General information

Segregation Form 4b



1. PCVS... Output closing cubicles, to create according to the depth and type of circuit-breaker
2. PSVS... Segregation for horizontal circuit-breaker
3. PSVS...1 Segregation for busbar side of horizontal circuit-breakers
4. PSHS... Universal horizontal shelf
5. PLVS... Vertical side segregation of horizontal circuit-breaker compartment
6. PPVS... Universal compartment side closing element



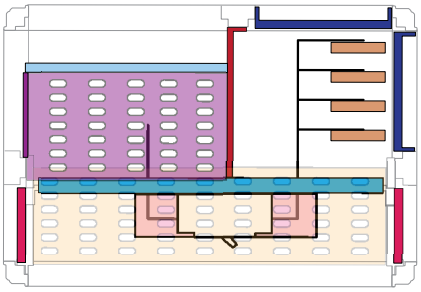
Examples of busbar use in the structure

4b segregation begins with the components used for Form 2a - 3a - 3b. It is obtained by means of dedicated PCVS... cubicles chosen to suit the depth of the circuit-breaker, and horizontal shelves PSHS... required for each depth change of the output closing cucibles in the same column. Use universal vertical shelf PSHS.... for each compartment in order to reach Form 4b.

Structures with intermediate upright

—
01 Horizontal circuit-breaker with front terminals
—
02 Horizontal circuit-breaker with rear terminals
—
03 Horizontal circuit-breaker with front/rear terminals
—
04 Horizontal circuit-breaker with front terminals

—
03



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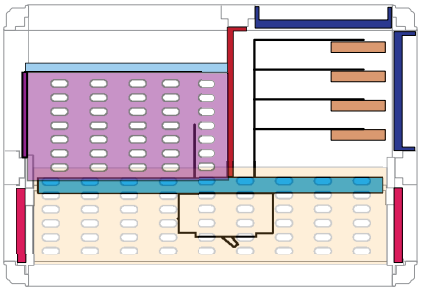
02



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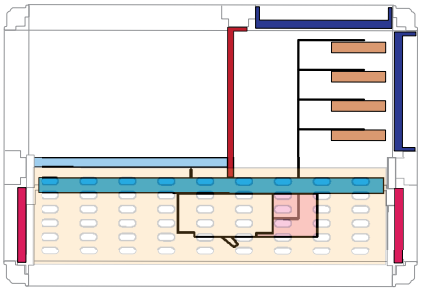
03



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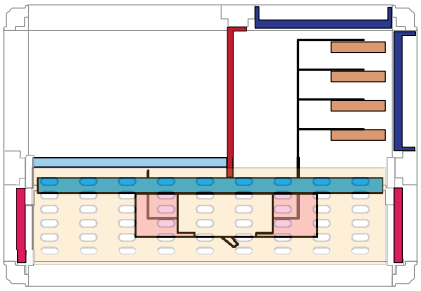
04



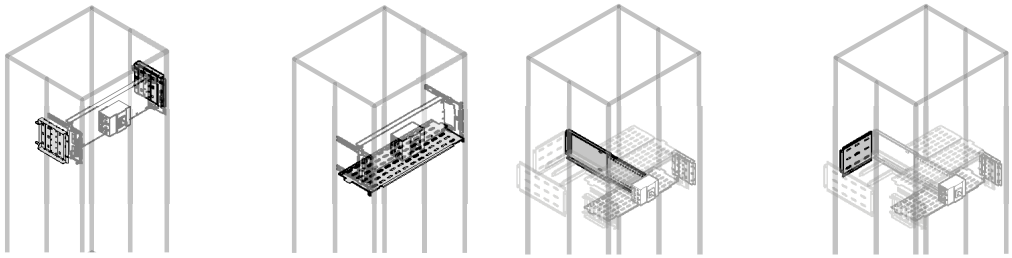
High terminal covers are available for all Tmax T/XT fixed and Emax E1.2 fixed, except for XT1, XT3 F-RC and kit PHBX3301, PHBX3401, PHBX4301, PHBX4401, PHBT4301, PHBT4406, PHBT5306, PHBT5406 and Tmax T6/T7 withdrawable and plug-in versions. For Tmax XT1/XT2/XT3/XT4 withdrawable and plug-in versions it is necessary to order the dedicated adapter covers for terminals. For Tmax T4/T5 withdrawable and plug-in versions it is necessary to order the dedicated high terminal covers for 3 or 4 poles.

Structure

General information

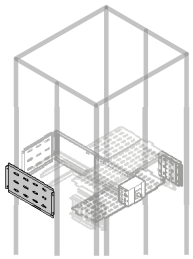
Choice of segregation to suit height of kits
Tmax T and Tmax XT moulded-case circuit-breakers

Horizontal installation

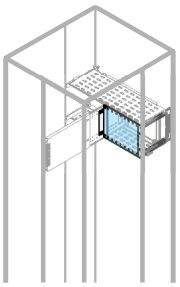


	Form 2a	Form 3a [2]		Form 3b					
		Universal horizontal shelf		Vertical segregation of terminals				Rear vertical bottom segregation on busbar side	
Height of kits (mm)	Universal compartment side closing element	Width of structure (mm)	For all depths	Width of structure (mm)	Depth of structure (mm) 500	700	900	Width of structure (mm)	For all depths
200	PPVS2200	400	PSHS1904	400	PSVS2050	PSVS2070	PSVS2090	400	PRVS2041
		600	PSHS1906	600	ù	PSVS2070	PSVS2090	600	PRVS2061
		800	PSHS1908	800	PSVS2050	PSVS2070	PSVS2090	800	PRVS2081
250	PPVS2250	400	PSHS1904	400	PSVS2550	PSVS2570	PSVS2590	400	PRVS2541
		600	PSHS1906	600	PSVS2550	PSVS2570	PSVS2590	600	PRVS2561
		800	PSHS1908	800	PSVS2550	PSVS2570	PSVS2590	800	PRVS2581
300	PPVS2300	400	PSHS1904	400	PSVS3050	PSVS3070	PSVS3090	400	PRVS3041
		600	PSHS1906	600	PSVS3050	PSVS3070	PSVS3090	600	PRVS3061
		800	PSHS1908	800	PSVS3050	PSVS3070	PSVS3090	800	PRVS3081
		1000	PSHS1901	1000	PSVS3050	PSVS3070	PSVS3090	1000	
350	PPVS2350	400	PSHS1904	400	PSVS3550	PSVS3570	PSVS3590	400	PRVS3541
		600	PSHS1906	600	PSVS3550	PSVS3570	PSVS3590	600	PRVS3561
		800	PSHS1908	800	PSVS3550	PSVS3570	PSVS3590	800	PRVS3581
400	PPVS2400	400	PSHS1904	400	PSVS4050	PSVS4070	PSVS4090	400	PRVS4041
		600 [1]	PSHS1906	600	PSVS4050	PSVS4070	PSVS4090	600	PRVS4061
		800 [1]	PSHS1908	800	PSVS4050	PSVS4070	PSVS4090	800	PRVS4081
500	PPVS2500	400	PSHS1904	400	PSVS5050	PSVS5070	PSVS5090	400	PRVS5041
		600 [3]	PSHS1906	600	PSVS5050	PSVS5070	PSVS5090	600	PRVS5061
		800 [3]	PSHS1908	800	PSVS5050	PSVS5070	PSVS5090	800	PRVS5081
		1000	PSHS1901	1000	PSVS5050	PSVS5070	PSVS5090	1000	
600	PPVS2600	400	PSHS1904	400	PSVS6050	PSVS6070	PSVS6090	400	PRVS6041
		600	PSHS1906	600	PSVS6050	PSVS6070	PSVS6090	600	PRVS6061
		800	PSHS1908	800	PSVS6050	PSVS6070	PSVS6090	800	PRVS6081
700	PPVS2700	600	PSHS1906						

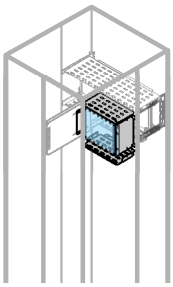
[1] Also for fixed/interlocked horizontal Emax 2 E1.2 for W=600mm and W=800mm.
[2] To install only between kits with different depths (D≥38mm) and above and below the kit compositions (top and bottom).
[3] For T7 withdrawable and withdrawable interloked use the segregations for horizontal E1.2 withdrawable for W=600mm and W=800mm.



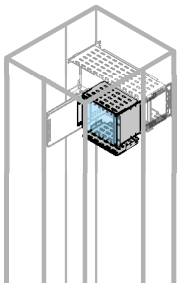
P0



P1



P2/P3



For the cubicles assembly position please refer to page 5-49 taking into consideration the breakers type.

Form 4b

	Side vertical segregation [3]			**Cubicles to suit depth of circuit-breaker**		
	Width of structure (mm)	**Depth of structure (mm)**			**Assembly position**	
		500	**700**	**900**	**P0**	**P1**	**P2***
	400	PLVS2052	PLVS2072	PLVS2092	PCVS0204	PCVS1204	PCVS2204
	600	PLVS2052	PLVS2072	PLVS2092	PCVS0206	PCVS1206	PCVS2206
	800	PLVS2052	PLVS2072	PLVS2092	PCVS0208	PCVS1208	PCVS2208
	400	PLVS2552	PLVS2572	PLVS2592	PCVS0254	PCVS1254	PCVS2254
	600	PLVS2552	PLVS2572	PLVS2592	PCVS0256	PCVS1256	PCVS2256
	800	PLVS2552	PLVS2572	PLVS2592	PCVS0258	PCVS1258	PCVS2258
	400	PLVS3052	PLVS3072	PLVS3092	PCVS0304	PCVS1304	PCVS2304
	600	PLVS3052	PLVS3072	PLVS3092	PCVS0306	PCVS1306	PCVS2306
	800	PLVS3052	PLVS3072	PLVS3092	PCVS0308	PCVS1308	PCVS2308
	1000						
	400	PLVS3552	PLVS3572	PLVS3592	PCVS0354	PCVS1354	PCVS2354
	600	PLVS3552	PLVS3572	PLVS3592	PCVS0356	PCVS1356	PCVS2356
	800	PLVS3552	PLVS3572	PLVS3592	PCVS0358	PCVS1358	PCVS2358
	400	PLVS4052	PLVS4072	PLVS4092	PCVS0404	PCVS1404	PCVS2404
	600	PLVS4052	PLVS4072	PLVS4092	PCVS0406	PCVS1406	PCVS2406
	800	PLVS4052	PLVS4072	PLVS4092	PCVS0408	PCVS1408	PCVS2408
	400	PLVS5052	PLVS5072	PLVS5092	PCVS0504	PCVS1504	PCVS2504
	600	PLVS5052	PLVS5072	PLVS5092	PCVS0506	PCVS1506	PCVS2506
	800	PLVS5052	PLVS5072	PLVS5092	PCVS0508	PCVS1508	PCVS2508
	1000						
	400	PLVS6052	PLVS6072	PLVS6092	PCVS0604	PCVS1604	PCVS2604
	600	PLVS6052	PLVS6072	PLVS6092	PCVS0606	PCVS1606	PCVS2606
	800	PLVS6052	PLVS6072	PLVS6092	PCVS0608	PCVS1608	PCVS2608

[3] Only required when columns are installed side by side, to separate the cable area and busbar area.

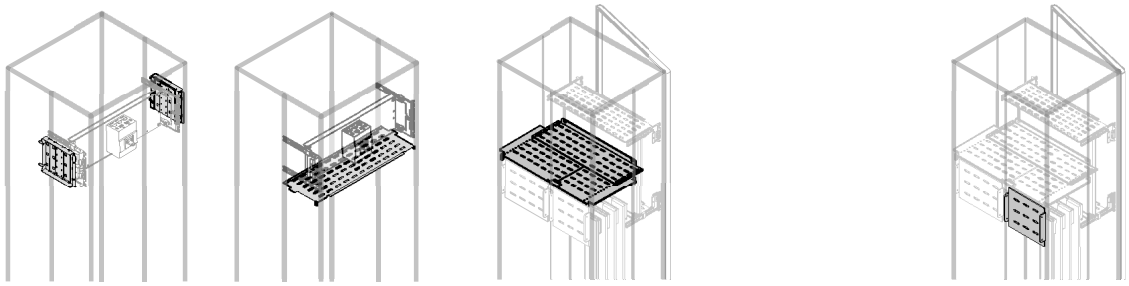
* Alternatively, cubicle P3 can be ordered; for details see p. 5-49.

Structure

General information

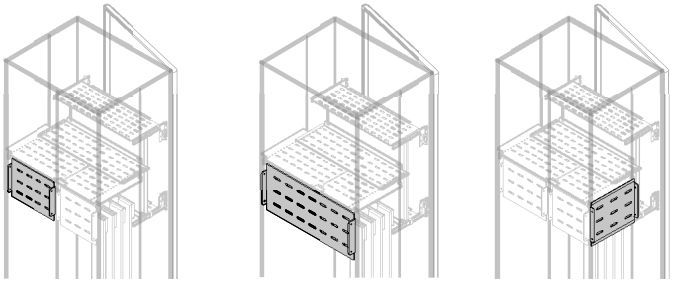
Choice of segregation to suit height of kits
Tmax T and Tmax XT moulded-case circuit-breakers

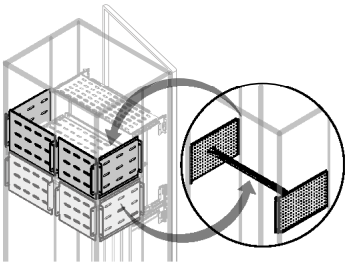
Vertical installation



	Form 2a	Form 3a [2]		Form 3b					
		Universal horizontal shelf		Horizontal segregation of terminals			Rear vertical bottom segregation on busbar side		
				Depth of structure (mm)					
Height of kits (mm)	Universal compartment side closing element	Width of structure (mm)	For all depths	500	700	900	Width of structure (mm)	For all depths	
200	PPVS2200	400	PSHS1904	PSHS4050	PSHS4070	PSHS4090	400		
		600	PSHS1906	PSHS6050	PSHS6070	PSHS6090	600		
		800	PSHS1908	PSHS8050	PSHS8070	PSHS8090	800		
		1000	PSHS1901				1000		
300	PPVS2300	400	PSHS1904	PSHS4050	PSHS4070	PSHS4090	400		
		600	PSHS1906	PSHS6050	PSHS6070	PSHS6090	600		
		800	PSHS1908	PSHS8050	PSHS8070	PSHS8090	800		
		1000	PSHS1901				1000		
350	PPVS2350	400	PSHS1904	PSHS4050	PSHS4070	PSHS4090	400	PRVS1741	
		600	PSHS1906	PSHS6050	PSHS6070	PSHS6090	600	PRVS1761	
		800	PSHS1908	PSHS8050	PSHS8070	PSHS8090	800	PRVS1781	
		1000	PSHS1901				1000		
400	PPVS2400	400	PSHS1904	PSHS4050	PSHS4070	PSHS4090	400	PRVS2041	
		600	PSHS1906	PSHS6050	PSHS6070	PSHS6090	600	PRVS2061	
		800	PSHS1908	PSHS8050	PSHS8070	PSHS8090	800	PRVS2081	
		1000	PSHS1901				1000		
450	PPVS2450	400 [1]	PSHS1904	PSHS4050	PSHS4070	PSHS4090	400	PRVS2241	
		600 [1]	PSHS1906	PSHS6050	PSHS6070	PSHS6090	600	PRVS2261	
		800 [1]	PSHS1908	PSHS8050	PSHS8070	PSHS8090	800	PRVS2251	
		1000	PSHS1901				1000		
500	PPVS2500	400	PSHS1904	PSHS4050	PSHS4070	PSHS4090	400	PRVS2541	
		600 [3]	PSHS1906	PSHS6050	PSHS6070	PSHS6090	600	PRVS2561	
		800 [3]	PSHS1908	PSHS8050	PSHS8070	PSHS8090	800	PRVS2581	
		1000	PSHS1901				1000		
600	PPVS2600	400	PSHS1904	PSHS4050	PSHS4070	PSHS4090	400	PRVS3041	
		600	PSHS1906	PSHS6050	PSHS6070	PSHS6090	600	PRVS3061	
		800	PSHS1908	PSHS8050	PSHS8070	PSHS8090	800	PRVS3081	
		1000	PSHS1901				1000		
		1250					1250		

[1] Also for fixed/interlocked vertical Emax 2 E1.2 for W=400mm, W=600mm and W=800mm.
[2] To install only between kits with different depths (D≥38mm) and above and below the kit compositions (top and bottom).
[3] For T7 withdrawable and withdrawable interloked use the segregations for vertical E1.2 withdrawable for W=600mm and W=800mm.





As an alternative to the PLVS... vertical side segregations, in the case of main circuit-breakers (Tmax T5, T6, T7), use the PMCS... side connection module for fixing terminal extensions and the relative fixing bshelfets PBMC0002 (page 4-36).

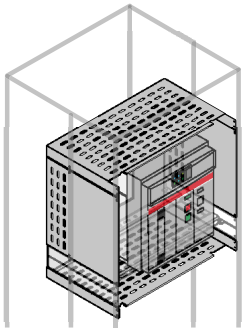
Form 4b
Form 4b is obtained by duplicating the codes of vertical bottom segregations PRVS... and vertical side segregations PLVS..., closing the circuit-breaker compartments over the entire height of the switchboard and installing an additional vertical side segregation on the output side.

	Vertical bottom segregation on busbar side		**Full width vertical bottom segregation**		**Vertical side segregation**		
					Depth of structure (mm)		
	Width of structure (mm)	**For all depths**	**Width of structure (mm)**	**For all depths**	**500**	**700**	**900**
	400		400				
	600		600				
	800		800				
	1000		1000				
	400		400				
	600		600				
	800		800				
	1000		1000				
	400		400	PRVS1740	PLVS1752	PLVS1772	PLVS1792
	600	PRVS1762	600	PRVS1760	PLVS1752	PLVS1772	PLVS1792
	800	PRVS1782	800	PRVS1780	PLVS1752	PLVS1772	PLVS1792
	1000		1000	PRVS1710	PLVS1752	PLVS1772	PLVS1792
	400		400	PRVS2040	PLVS2052	PLVS2072	PLVS2092
	600	PRVS2062	600	PRVS2060	PLVS2052	PLVS2072	PLVS2092
	800	PRVS2082	800	PRVS2080	PLVS2052	PLVS2072	PLVS2092
	1000		1000	PRVS2010	PLVS2052	PLVS2072	PLVS2092
	400		400	PRVS2240	PLVS2252	PLVS2272	PLVS2292
	600	PRVS2262	600	PRVS2260	PLVS2252	PLVS2272	PLVS2292
	800	PRVS2282	800	PRVS2280	PLVS2252	PLVS2272	PLVS2292
	1000		1000	PRVS2210	PLVS2252	PLVS2272	PLVS2292
	400		400		PLVS2552	PLVS2572	PLVS2592
	600	PRVS2562	600	PRVS2560	PLVS2552	PLVS2572	PLVS2592
	800	PRVS2582	800	PRVS2580	PLVS2552	PLVS2572	PLVS2592
	1000		1000	PRVS2510	PLVS2552	PLVS2572	PLVS2592
	400		400	PRVS3040	PLVS3052	PLVS3072	PLVS3092
	600	PRVS3062	600	PRVS3060	PLVS3052	PLVS3072	PLVS3092
	800	PRVS3082	800	PRVS3080	PLVS3052	PLVS3072	PLVS3092
	1000		1000	PRVS3010	PLVS3052	PLVS3072	PLVS3092
	1250		1250	PRVS3125			

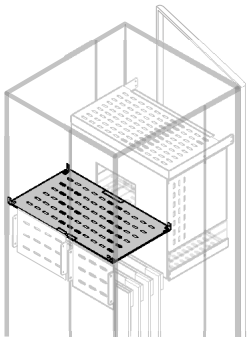
Structure

General information

Choice of segregation
Emax 2 air circuit-breakers *



E1.2 withdrawable -
E2.2 - E4.2 - E6.2 vertical



E1.2 withdrawable -
E2.2 - E4.2 - E6.2 verical

Vertical fixed Emax 2

Form 2a-3a				**Form 3b**					
	Segregation kit				**Horizontal terminal separator**				
	E2.2	**E4.2**	**E6.2**		**E2.2**	**E2.2**	**E4.2**	**E4.2**	**E6.2**
	Height of kits (mm)				Profondità (mm)				
Width of Kit/column (mm)	600	600	700	**Width of Kit/column (mm)**	700	900	700	900	900
600	PSVF6062	PSVF6064		**600**	PSHF6072	PSHF6092	PSHF6072	PSHF6092	
800	PSVF6082	PSVF6084		**800**	PSHF8072	PSHF8092	PSHF8072	PSHF8092	
1000			PSVF7016	**1000**					PSHF1096
1250			PSVF7126	**1250**					PSHF1296

Vertical withdrawable Emax 2

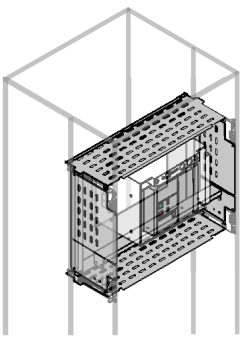
Form 2a-3a					**Form 3b**								
	Segregation kit					**Horizontal terminal separator**							
Width of Kit/ column (mm)	**E1.2**	**E2.2**	**E4.2**	**E6.2**	**Width of Kit/ column (mm)**	**E1.2**	**E1.2**	**E1.2**	**E2.2**	**E2.2**	**E4.2**	**E4.2**	**E6.2**
	Height of kits (mm)					**Depth (mm)**							
	500	**600**	**600**	**700**		**500**	**700**	**900**	**700**	**900**	**700**	**900**	**900**
600	PSVW5061[1]	PSVW6062	PSVW6064		**600**	PSHW6051[1]	PSHW6071[1]	PSHW6091	PSHW6072	PSHW6092	PSHW6074	PSHW6094	
800	PSVW5081[1]	PSVW6082	PSVW6084		**800**	PSHW8051[1]	PSHW8071[1]	PSHW8091	PSHW8072	PSHW8092	PSHW8074	PSHW8094	
1000				PSVW7016	**1000**								PSHW1096
1250		PSVW6126		PSVW7126	**1250**								PSHW1296

Horizontal withdrawable Emax 2

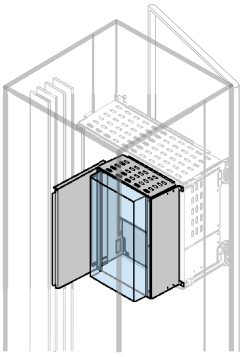
	Form 2a-3a		**Form 3b**		**Form 4b**	
	Segregation kit		**Vertical terminal separator**		**Rear cubicle**	
	E1.2		**E1.2**		**E1.2**	
	Width of kits (mm)		**Depth (mm)**		**Width of column (mm)**	
Height of kits (mm)	**600**	**800**	**700**	**900**	**600**	**800**
500	PSHW5061[2]	PSHW5081[2]	PSVS0055[2]	PSVS0057[2]	PCVS5060[2]	PCVS5080[2]

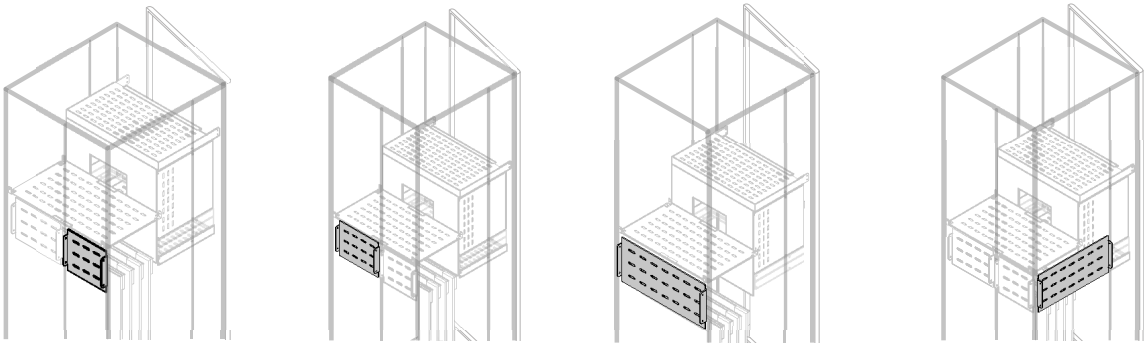
* For horizontal/vertica Emax E1.2 fixed see page 5-12 (kit H=400mm) and 5-14 (kit H=450mm).
[1] Also suitable for vertical T7 witdrawable and witdrawable interlocked.
[2] Also suitable for horizontal T7 witdrawable and witdrawable interlocked.

Form 2a-3a
E1.2 horizontal



Form 3b-4b

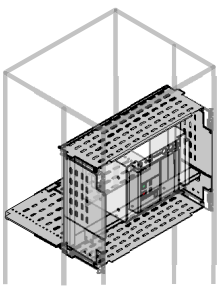




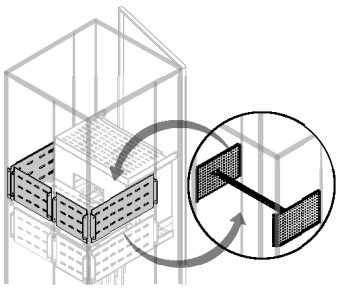
Bottom segregations					Side segregations		
	Structures with rear intermediate upright on busbar side	Structures with rear intermediate upright on output side	Structures without intermediate rear upright full-width segregation		Assembly between intermediate upright and rear structural upright		
	E2.2/E4.2	E2.2/E4.2	E2.2/E4.2	E6.2		E2.2/E4.2	E6.2
Width of Kit/column (mm)	Height of kits (mm)					Height of kits (mm)	
	600	600	600	700	Depth (mm)	600	700
600	PRVS3061	PRVS3062	PRVS3060		700	PLVS3072	PLVS3572
800	PRVS3081	PRVS3082	PRVS3080		900	PLVS3092	PLVS3592
1000			PRVS3010	PRVS3510			
1250			PRVS3125	PRVS3501			

Bottom segregations								Side segregations			
	Structures with rear intermediate upright on busbar side		Structures with rear intermediate upright on output side		Structures without intermediate rear upright full-width segregation			Assembly between intermediate upright and rear structural upright			
Width of Kit/ column (mm)	Height of kits (mm)							Height of kits (mm)	Depth (mm)		
	500	600	500	600	500	600	700		500	700	900
600	PRVS2561	PRVS3061	PRVS2562	PRVS3062	PRVS2560	PRVS3060		500	PLVS2552	PLVS2572	PLVS2592
800	PRVS2581	PRVS3081	PRVS2582	PRVS3082	PRVS2580	PRVS3080		600	PLVS3052	PLVS3072	PLVS3092
1000					PRVS2510	PRVS3010	PRVS3510	700	PLVS3552	PLVS3572	PLVS3592
1250					PRVS2512	PRVS3125	PRVS3501				

Form 2b
Breakers whit rear terminals.
use dedicated kit 2a-3a and shelf PTHS... page 5/31.



Vertical circuit-breakers Form 4b



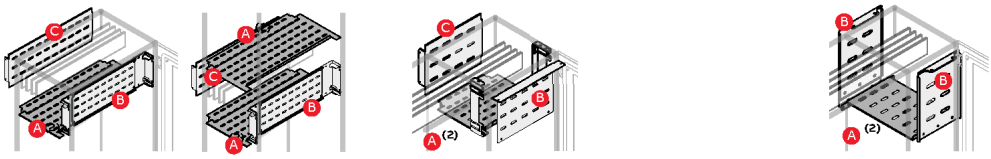
Form 4b is obtained by duplicating the codes of vertical bottom segregations PRVS... and vertical side segregations PLVS..., closing the circuit-breaker compartments over the entire height of the switchboard and installing an additional vertical side segregation on the output side.

As an alternative to the PLVS... vertical side segregations, in the case of main circuit-breakers, use the PMCS... side connection module for fixing terminal extensions and the relative fixing bshelfets PBMC0002 (page 4-36).

Structure

General information

Choice of busbars segregation

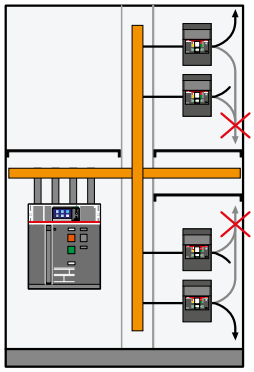


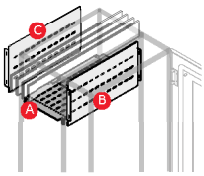
Horizontal busbars Form 2b, 4a, 3b, 4b

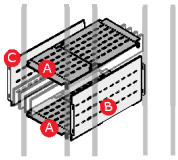
Width (mm)	Segregation for horizontal busbars (1)																	
	Structure					External cable compartment (under the top-bottom)						Internal cable compartment (under the top-bottom)						
	Without intermediate upright					Without intermediate upright						Without intermediate upright side structure						
				Segregation (3)						Segregation (3)						Segregation (3)		
	A			B	C	A				B	C	A				B		
	Horizontal shelves (2) D (mm)			fronte H (mm)	retro H (mm)	Horizontal shelves (2) D (mm)				Front H (mm)	Rear H (mm)	Horizontal shelves (2) P (mm)				Front/Rear H (mm)		
	300	500	700	200	200	300	500	700	900	200	200	300	500	700	900	200		
200												PTHS2030	PTHS2050	PTHS2070	PTHS2090	PFVS2220		
300						PTHS3030	PTHS3050	PTHS3070	PTHS3090	PFVS2130	PRVS2062							
400	PTHS4030	PTHS4050	PTHS4070	PFVS2040	PRVS2040	PTHS4030	PTHS4050	PTHS4070	PTHS4190	PFVS2140	PRVS2040	PTHS4230	PTHS4250	PTHS4270	PTHS4290	PFVS2240		
600	PTHS6030	PTHS6050	PTHS6070	PFVS2060	PRVS2060													
800	PTHS8030	PTHS8050	PTHS8070	PFVS2080	PRVS2080													
1000																		
1250																		

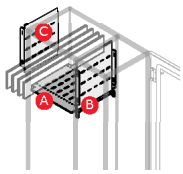
(1) Pay attention to the outputs of the starting cables which could interfere with the bars/bar segregation.
For details see chapter 7: Examples of use of the rear cable compartment.

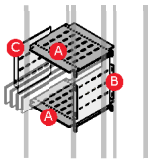
(2) The horizontal shelves are fixed on the front vertical ones; order both.

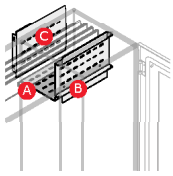


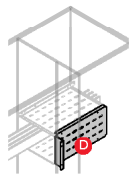












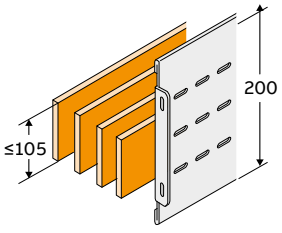
Segregation for horizontal busbars [1]

Structure							External cable compartment							Internal cable compartment							
With intermediate upright							With intermediate upright							With intermediate upright side structure							
			Segregation [3]							Segregation [3]							Segregation [3]				
A			B		C		A			B		C		A			B		C	D	
Horizontal shelves D (mm)			Front H (mm)		Rear		Horizontal shelves D (mm)			Front H (mm)		Rear H (mm)		Horizontal shelves D (mm)			fronte (tetto/ fondo) H (mm)		retro (tetto/ fondo) H (mm)	fronte ogni altezza H (mm)	
500	700	900	200	300	200	300	500	700	900	200	300	200	300	500	700	900	200	300	200	200 [2]	300 [3]
														PTHS2052	PTHS2072	PTHS2092	PFVS2222	PFVS3222	PFVS2220	PFVS2223	PFSV3223
							PTHS3052	PTHS3072	PTHS3092	PFVS2132	PFVS3132	PRVS2062	PRVS3062								
PTHS4052	PTHS4072	PTHS4092	PFVS2042	PFVS3042	PRVS2040		PTHS4152	PTHS4172	PTHS4192	PFVS2042	PFVS3042	PRVS2040	PRVS3082	PTHS4252	PTHS4272	PTHS4292	PFVS2242	PFVS3242	PFVS2240	PFVS2243	PFVS3243
PTHS6052	PTHS6072	PTHS6092	PFVS2062	PFVS3062	PRVS2060	PRVS3060															
PTHS8052	PTHS8072	PTHS8092	PFVS2082	PFVS3082	PRVS2080	PRVS3080															
PTHS1052	PTHS1072	PTHS1092	PFVS2012	PFVS3012	PRVS2010	PRVS3010															
		PTHS1292	PFVS2122	PFVS3122	PRVS2125	PRVS3125															

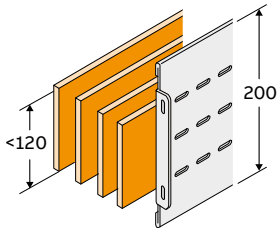
[3] Horizontal bar segregation H = 200mm for assembly of:
- bars at any height ≤105mm;
- under top/bottom bars <120mm.

Segregation for horizontal busbars H=200mm

Busbars at all heights
Overall dimensions of busbars



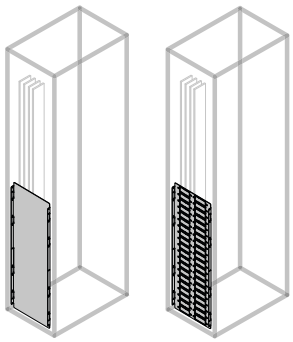
Busbars under top/at bottom
Overall dimensions of busbars

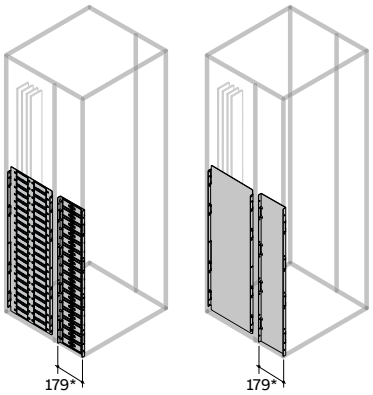


Structure

General information

Choice of busbars segregation



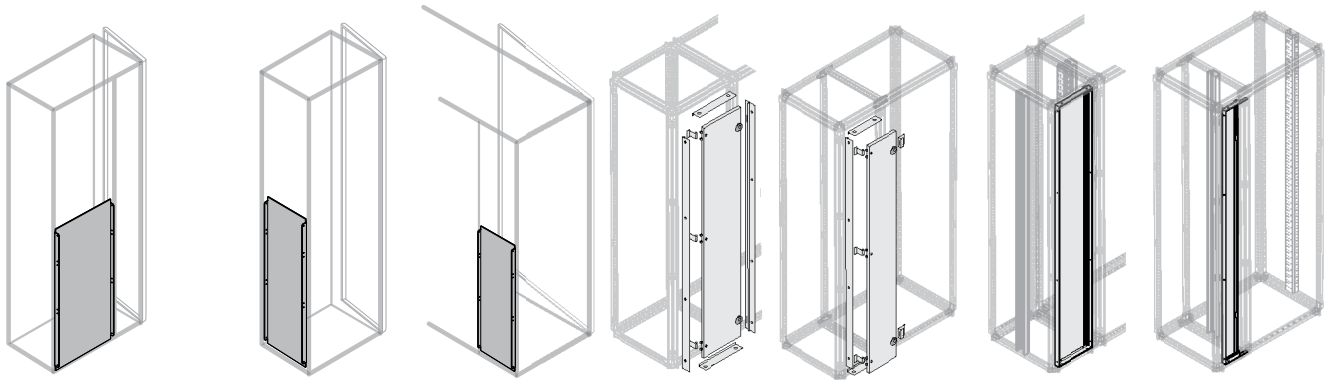


Vertical busbars

Height (mm)	Type	Side segregation for vertical busbars								
		Structure								
		Form 2b-4a					Form 2b-4a [1]	Form 2b-4a, 3b, 4b		
		Without intermediate upright					With intermediate upright			
							Front	Rear		
		Depht (mm)					Depth (mm)			
		200	300	500	700	900	179*	500	700	900
700	cieca							PLVS7052	PLVS7072	PLVS7092
800	cieca	PTBS8020	PTBS8030	PTBS8050	PTBS8070	PTBS8090	PTBS8001	PTBS8052	PTBS8072	PTBS8091
1000	cieca	PTBS1020	PTBS1030	PTBS1050	PTBS1070		PTBS1001	PTBS1052	PTBS1072	PTVB1091
800	pretranciata	PTVS8020	PTVS8030	PTVS8050	PTVS8070		PTVS8001	PTVS8052	PTVS8072	PTVS8091
1000	pretranciata	PTVS1020	PTVS1030	PTVS1050	PTVS1070	PTBS1090	PTVS1001	PTVS1052	PTVS1072	PTVS1091

For the closing at the back off the structure use Form 3b segregations PRVS.... busbars/outgoing side at whole height.

[1] Segregation Form 3b, 4b from the intermediate upright up to the front structural upright can be obtained only by means of lateral segregation closing Form 2a-3a.

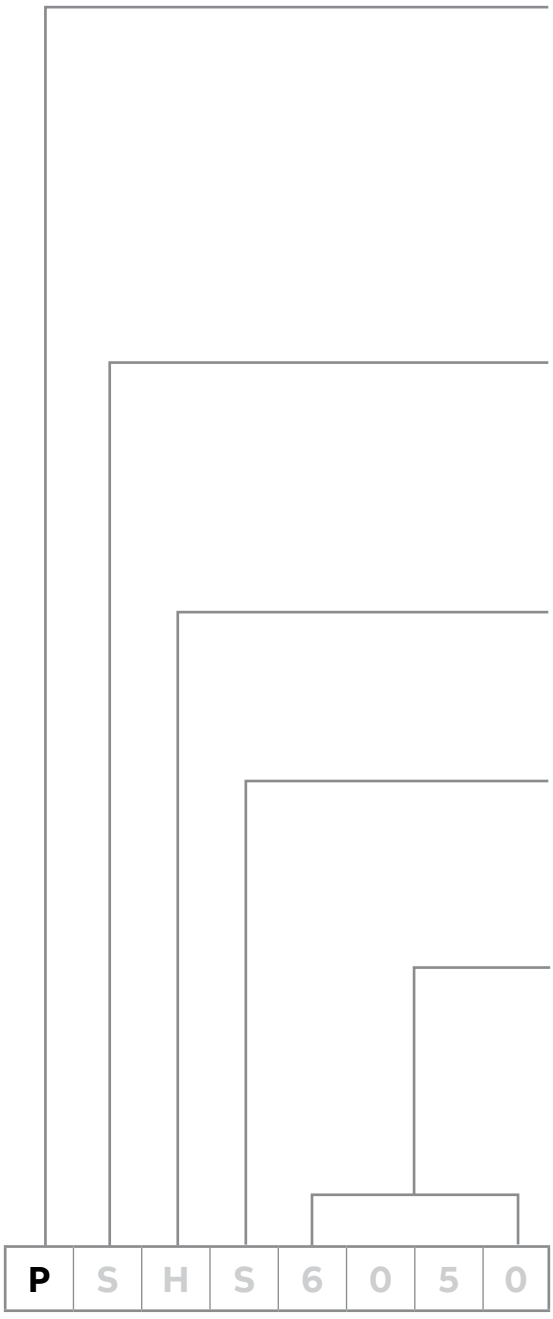


Cable compartment

	Blind side segregation for external cable compartment with intermediate upright			Rear segregation for external cable compartment		Rear segregation for internal cable compartment with rear intermediate upright		Internal door for external cable compartment		Internal door for internal cable compartment		Front vertical segregation for external cable compartment		Front vertical segregation for internal cable compartment	
	Depth (mm)			Width (mm)		Width (mm)		Width (mm)		Width (mm)		Width (mm)		Width (mm)	
Height (mm)	500	700	900	300	400	200	400	300	400	200	400	300	400	200	400
700	PLVS7052	PLVS7072	PLVS7092												
800	PTBS8052	PTBS8072	PTBS8091	PRVS8062	PRVS8082	PRBS8220	PRBS8240								
1000	PTBS1052	PTBS1072	PTVB1091	PRVS1062	PRVS1082	PRBS1220	PRBS1240								
1800								PDCB1830	PDCB1844	PDCB1820	PDCB1840	PFVS8030	PFVS8040	PFBS8020	PFBS8040
2000								PDCB2030	PDCB2044	PDCB2020	PDCB2040	PFVS1030	PFVS1040	PFBS1020	PFBS1040

Segregation
Guide to the order codes

The new code is formed by 4 letters standing for English terms and 4 numbers, without spaces in between.



RANGE IDENTIFIER
The first letter of all the codes of the new main distribution switchboard “P” stands for “power”. Thus the new product is clearly identified by the same initial used for all new components of ABB’s System pro E powerr

TYPE OF PRODUCT AND CHARACTERISTICS
The second letter in the code indicates the type of product or component of the switchboard. The third and fourth letters describe the characteristics

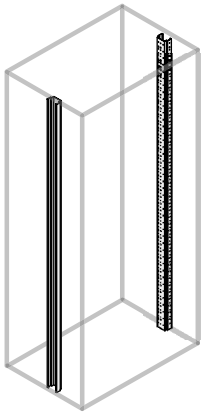
S = Segregation
R = Rears
L = Lateral
C = Crosspieces
P = Pre-cut
F = Frontal
C = Cell
T = Total

V = Vertical
H = Horizontal
B = Blind
R = Rubber
D = Nylon

S = Structure/Struttura Segregation/ Segregazione
F = Fixed/Fisso
W = Withdrawable/Estraibile

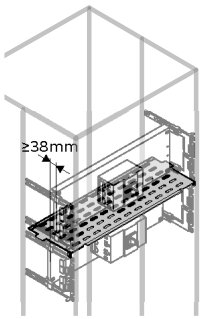
MEASUREMENTS
The last 4 numbers usually refer to a measurement of the component or several dimensions pertaining to the code.

Segregation
Order codes - Form 2a-3a segregations



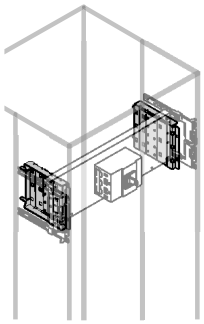
Intermediate side and rear upright for assembly of internal kits and segregations
The intermediate upright is the same as the one used for installing the kits and can be assembled both on the side and bottom of the structure.

Description	Dimensions (mm) H	Type	Order code	Pkg/ No. pcs
Intermediate upright	1800	PUKI1800	1STQ008039A0000	1/1
Intermediate upright	2000	PUKI2000	1STQ008040A0000	1/1



Universal horizontal shelf
Horizontal shelf to use whenever the plates of the circuit-breakers are further than 38mm , and above and below the kit compositions (top and bottom). For structures with intermediate uprights.

Description	Dimensions (mm) W	Type	Order code	Pkg/ No. pcs
Universal horizontal shelf	400	PSHS1904	1STQ008691A0000	1/1
Universal horizontal shelf	600	PSHS1906	1STQ008692A0000	1/1
Universal horizontal shelf	800	PSHS1908	1STQ008693A0000	1/1
Universal horizontal shelf	1000	PSHS1901	1STQ008694A0000	1/1
Universal horizontal shelf	1250	PSHS1912	1STQ001567B0000	1/1



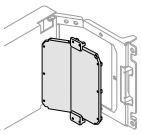
Universal compartment side closing element
Precut universal compartment side closing element for use with both horizontal and vertical circuit-breakers. Preengineered for housing compartment side closing elements in rubber.
For structures with intermediate uprights.

Description	Dimensions (mm) H	Type	Order code	Pkg/ No. pcs
2 compartment side closing elements	200	PPVS2200	1STQ008695A0000	1/2
2 compartment side closing elements	250	PPVS2250	1STQ008696A0000	1/2
2 compartment side closing elements	300	PPVS2300	1STQ008697A0000	1/2
2 compartment side closing elements	350	PPVS2350	1STQ008698A0000	1/2
2 compartment side closing elements	400	PPVS2400	1STQ008699A0000	1/2
2 compartment side closing elements	450	PPVS2450	1STQ008700A0000	1/2
2 compartment side closing elements	500	PPVS2500	1STQ008701A0000	1/2
2 compartment side closing elements	600	PPVS2600	1STQ008702A0000	1/2
2 compartment side closing elements	700	PPVS2700	1STQ009228A0000	1/2

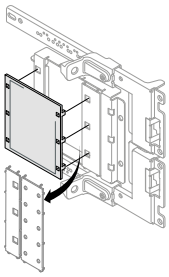
• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Segregation

Order codes - Form 2a-3a segregations



PPRS0150

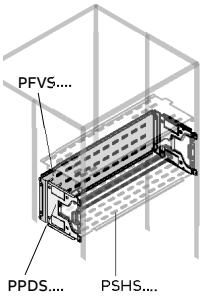


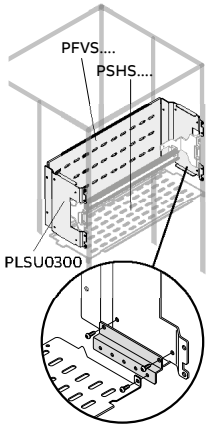
PPRS0200....
....PPRS0600

Rubber cover for closing compartments at the side

Rubber cover for closing compartments at the side and routing connections.
Order the rubber 50mm lower than the cell.

Description	Dimensions cella (mm) H	Rubber dimensions (mm) H	Type	Order code	Pkg/ No. pcs
Rubber cover	150	-	PPRS0150	1STQ008726A0000	1/1
Rubber cover	200	150	PPRS0200	1STQ008583A0000	1/1
Rubber cover	250	200	PPRS0250	1STQ008584A0000	1/1
Rubber cover	300	250	PPRS0300	1STQ008585A0000	1/1
Rubber cover	350	300	PPRS0350	1STQ008586A0000	1/1
Rubber cover	400	350	PPRS0400	1STQ008587A0000	1/1
Rubber cover	450	400	PPRS0450	1STQ008588A0000	1/1
Rubber cover	500	450	PPRS0500	1STQ008589A0000	1/1
Rubber cover	600	550	PPRS0600	1STQ008590A0000	1/1



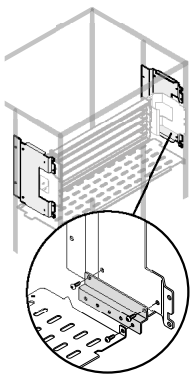


Segregation of modular assemblies

The code refers to two side walls. The segregation must be completed by ordering a front segregation and two PSHS... universal shelves, above and below. For structures with intermediate uprights.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Modular apparatus H=200mm					
No .2 Side closing elements for DIN rail	200		PPDS0200	1STQ009080A0000	1/2
Front segregation	200	400	PFVS2042	1STQ008539A0000	1/1
Front segregation	200	600	PFVS2062	1STQ008540A0000	1/1
Front segregation	200	800	PFVS2082	1STQ008541A0000	1/1
Modular apparatus H=300mm for centered panel					
No. 2 lateral closures + 2 horizontal shelf fixing brackets PSHS....	300		PLSU0300	1STQ001333B0000	1/2
Front segregation	300	600	PFVS3062	1STQ008544A0000	1/1
Front segregation	300	800	PFVS3082	1STQ008545A0000	1/1

The side closing elements pre-cuts for DIN rail measure H=50mm; from a rubber cover PPRS0200 it is possible to obtain 3 rubber covers for DIN rail H=50mm each.



Segregation for Unifix H

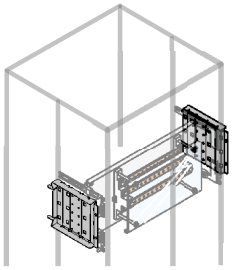
The code refers to two side walls. The segregation must be completed by ordering a front segregation and two PSHS... universal shelves, above and below. For structures with intermediate uprights.

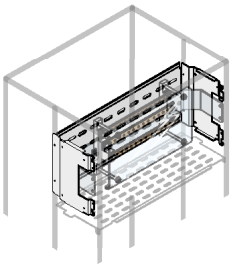
Description	Dimensions (mm) H	Type	Order code	Pkg/ No. pcs
° 2 lateral closures + 2 horizontal shelf fixing brackets PSHS....	300	PLSU0300	1STQ001333B0000	1/2

• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Segregation

Order codes - Form 2a-3a segregations





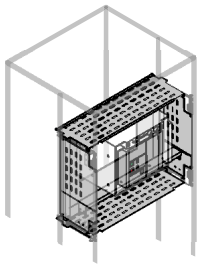
Segregation of modular distributors AD1034-AD1053

The code refers to two side walls. The segregation must be completed by ordering a front segregation and two PSHS... universal shelves, above and below. For structures with intermediate uprights.

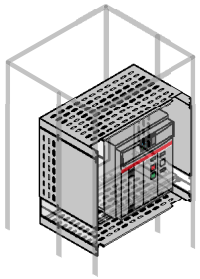
Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Plate mounting H=200/250/300mm					
N°2 Lateral closures	200		PPVS2200	1STQ008695A0000	1/2
N°2 Lateral closures	250		PPVS2250	1STQ008696A0000	1/2
N°2 Lateral closures	300		PPVS2300	1STQ008697A0000	1/2
Mounting on fixing brackets PBRF3453					
No. 2 lateral closures + 2 horizontal shelf fixing brackets PSHS....	300		PLSU0300	1STQ001333B0000	1/2
Frontal segregation	300	600	PFVS3062	1STQ008544A0000	1/1
Frontal segregation	300	800	PFVS3082	1STQ008545A0000	1/1

The side closing elements pre-cuts for DIN rail measure H=50mm; from a rubber cover PPRS0200 it is possible to obtain 3 rubber covers for DIN rail H=50mm each.

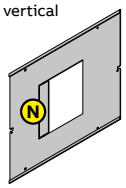
E1.2 horizontal



E1.2 - E2.2 - E4.2 - E6.2 vertical



T7 W - E1.2 W vertical



Segregation for the SACE Emax 2 circuit-breaker

The codes include two horizontal shelves, one rear plate and two side walls. For structures with intermediate uprights.

Circuit-breaker Emax 2	Version	Dimensione (mm) H	W	Type	Order code	Pkg/ No. pcs
Horizontal circuit-breakers						
E1.2	W	500	600	PSHW5061[1]	1STQ009281A0000	1/1
E1.2	W	500	800	PSHW5081[1]	1STQ009282A0000	1/1
Vertical circuit-breakers						
E1.2	W	500	600	PSVW5061[2]	1STQ009055A0000	1/1
E1.2	W	500	800	PSVW5081[2]	1STQ009056A0000	1/1
E2.2	F	600	600	PSVF6062	1STQ009057A0000	1/1
E2.2	F	600	800	PSVF6082	1STQ009058A0000	1/1
E2.2	W	600	600	PSVW6062	1STQ009059A0000	1/1
E2.2	W	600	800	PSVW6082	1STQ009060A0000	1/1
E2.2	W	600	1250	PSVW6126	1STQ004226B0000	1/1
E4.2	F	600	600	PSVF6064	1STQ009061A0000	1/1
E4.2	F	600	800	PSVF6084	1STQ009062A0000	1/1
E4.2	W	600	600	PSVW6064	1STQ009063A0000	1/1
E4.2	W	600	800	PSVW6084	1STQ009064A0000	1/1
E6.2	F	700	1000	PSVF7016	1STQ009065A0000	1/1
E6.2	F	700	1250	PSVF7126	1STQ009066A0000	1/1
E6.2	W	700	1000	PSVW7016	1STQ009067A0000	1/1
E6.2	W	700	1250	PSVW7126	1STQ009068A0000	1/1

[1] Also suitable for horizontal T7 witdrawable and witdrawable interlocked.
[2] Also suitable for vertical T7 witdrawable and witdrawable interlocked.

Key:
F fixed
W withdrawable

• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

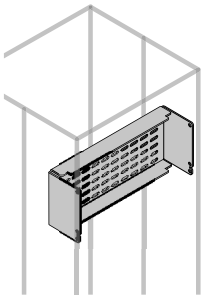
Segregation

Order codes - Form 2a-3a segregations

Segregation for the SACE Emax 2 circuit-breaker for space-saving column W=400mm
The codes include two horizontal shelves, one rear plate and two side walls. For structures with intermediate uprights.

		Dimensione (mm)				Pkg/
Emax 2 circuit-breaker	**Version**	**H**	**W**	**Type**	**Order code**	**No. pcs**
Vertical circuit-breakers						
E1.2	W	600	400	PSVW6041	1STQ001568B0000	1/1
E2.2	F	600	400	PSVF6042	1STQ001569B0000	1/1
E2.2	W	600	400	PSVW6042	1STQ001570B0000	1/1

Key:
F fixed
W withdrawable



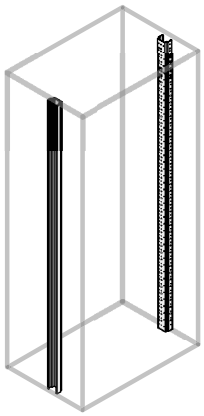
Blind compartment for segregations
Blind compartment for filling empty spaces inside the structure. The blind suitable for fixing accessories. For structures with intermediate uprights.
The horizontal racks cannot be installed under the top or at the bottom if the compartment occupies the first or last position in a column.

	Dimensions (mm)				Pkg/
Description	**H**	**W**	**Type**	**Order code**	**No. pcs**
Blind compartment	50	400	PCBS5040	1STQ008703A0000	1/1
Blind compartment	100	400	PCBS1040	1STQ008704A0000	1/1
Blind compartment	150	400	PCBS1540	1STQ008705A0000	1/1
Blind compartment	200	400	PCBS2040	1STQ008706A0000	1/1
Blind compartment	250	400	PCBS2540	1STQ008707A0000	1/1
Blind compartment	300	400	PCBS3040	1STQ009027A0000	1/1
Blind compartment	50	600	PCBS5060	1STQ008708A0000	1/1
Blind compartment	100	600	PCBS1060	1STQ008709A0000	1/1
Blind compartment	150	600	PCBS1560	1STQ008710A0000	1/1
Blind compartment	200	600	PCBS2060	1STQ008711A0000	1/1
Blind compartment	250	600	PCBS2560	1STQ008712A0000	1/1
Blind compartment	300	600	PCBS3060	1STQ009028A0000	1/1
Blind compartment	50	800	PCBS5080	1STQ008713A0000	1/1
Blind compartment	100	800	PCBS1080	1STQ008714A0000	1/1
Blind compartment	150	800	PCBS1580	1STQ008715A0000	1/1
Blind compartment	200	800	PCBS2080	1STQ008716A0000	1/1
Blind compartment	250	800	PCBS2580	1STQ008717A0000	1/1
Blind compartment	300	800	PCBS3080	1STQ009029A0000	1/1
Blind compartment	50	1000	PCBS5010	1STQ008718A0000	1/1
Blind compartment	100	1000	PCBS1010	1STQ008719A0000	1/1
Blind compartment	150	1000	PCBS1510	1STQ008720A0000	1/1
Blind compartment	200	1000	PCBS2010	1STQ008721A0000	1/1
Blind compartment	250	1000	PCBS2510	1STQ008722A0000	1/1
Blind compartment	300	1000	PCBS3010	1STQ009030A0000	1/1
Blind compartment	100	1250	PCBS1012	1STQ004228B0000	1/1

Not to mount above or below a kit with MO or a recessed external panels PPBR...
In this cases it is necessary using blind mounting plate and a blind flat panel to reach the segregation form 2A-3A.

Segregation

Order codes - Busbar segregations Form 2b-3b-4a-4b

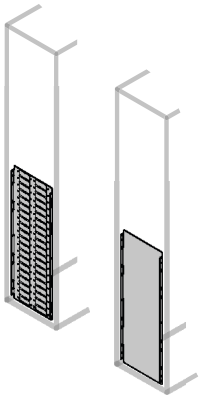


Intermediate side and rear upright for assembly of internal kits and segregations

The intermediate upright is the same as the one used for installing the kits and can be assembled both on the side and bottom of the structure.

Description	Dimensions (mm) H	Type	Order code	Pkg/ No. pcs
Intermediate upright	1800	PUKI1800	1STQ008039A0000	1/1
Intermediate upright	2000	PUKI2000	1STQ008040A0000	1/1

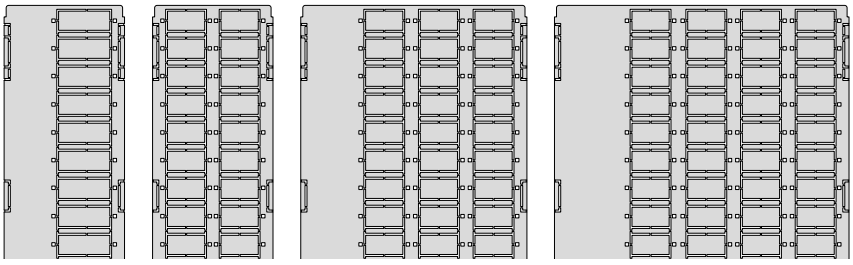
The intermediate upright is required for all segregation Forms differing from Form 2b, even when not needed by the circuit-breaker version.



Side segregation for structure without intermediate upright

Vertical side walls for assembly between front and rear structural uprights. To use for structures with fixed circuitbreakers that do not require the intermediate upright. The precuts in the segregations are at 50mm pitch. At least three vertical ones must be removed.

Description	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Precut					
Precut vertical side segregation	800	200	PTVS8020	1STQ009070A0000	1/1
Precut vertical side segregation	1000	200	PTVS1020	1STQ009071A0000	1/1
Precut vertical side segregation	800	300	PTVS8030	1STQ008487A0000	1/1
Precut vertical side segregation	1000	300	PTVS1030	1STQ008488A0000	1/1
Precut vertical side segregation	800	500	PTVS8050	1STQ008489A0000	1/1
Precut vertical side segregation	1000	500	PTVS1050	1STQ008490A0000	1/1
Precut vertical side segregation	800	700	PTVS8070	1STQ008491A0000	1/1
Precut vertical side segregation	1000	700	PTVS1070	1STQ008492A0000	1/1
Blind					
Blind vertical side segregation	800	200	PTBS8020	1STQ009072A0000	1/1
Blind vertical side segregation	1000	200	PTBS1020	1STQ009073A0000	1/1
Blind vertical side segregation	800	300	PTBS8030	1STQ008493A0000	1/1
Blind vertical side segregation	1000	300	PTBS1030	1STQ008494A0000	1/1
Blind vertical side segregation	800	500	PTBS8050	1STQ008495A0000	1/1
Blind vertical side segregation	1000	500	PTBS1050	1STQ008496A0000	1/1
Blind vertical side segregation	800	700	PTBS8070	1STQ008497A0000	1/1
Blind vertical side segregation	1000	700	PTBS1070	1STQ008498A0000	1/1
Blind vertical side segregation	800	900	PTBS8090	1STQ002004B0000	1/1
Blind vertical side segregation	1000	900	PTBS1090	1STQ002005B0000	1/1



PTVS8020
PTVS1020

PTVS8030
PTVS1030

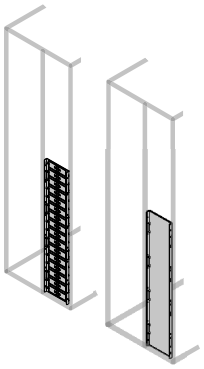
PTVS8050
PTVS1050

PTVS8070
PTVS1070

• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Segregation

Order codes - Busbar segregations Form 2b-3b-4a-4b

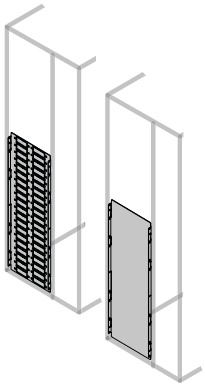


Front side segregation for structure with intermediate upright

Precut vertical front side wall for assembly between intermediate upright and front structural upright.

Description	Dimensions (mm) H	Type	Order code	Pkg/ No. pcs
Precut vertical front side segregation				
Vertical side segregation	800	PTVS8001	1STQ008511A0000	1/1
Vertical side segregation	1000	PTVS1001	1STQ008512A0000	1/1
Blind vertical front side segregation				
Vertical side segregation	800	PTBS8001	1STQ008513A0000	1/1
Vertical side segregation	1000	PTBS1001	1STQ008514A0000	1/1

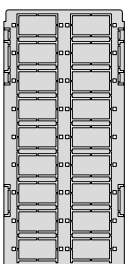
Segregation Form 3b, 4b from the intermediate upright up to the front structural upright can be obtained only by means of lateral segregation closing Form 2a-3a.



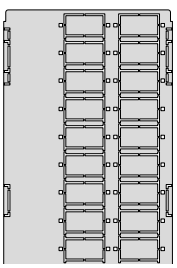
Rear side segregation for structure with intermediate upright

Precut vertical rear side wall for assembly between intermediate upright and rear structural upright.

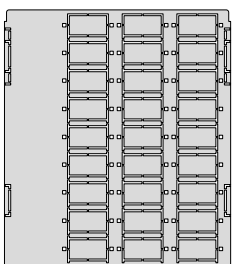
Description	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Vertical rear lateral segregation with precuts					
Vertical side segregation	800	500	PTVS8052	1STQ008515A0000	1/1
Vertical side segregation	1000	500	PTVS1052	1STQ008516A0000	1/1
Vertical side segregation	800	700	PTVS8072	1STQ008517A0000	1/1
Vertical side segregation	1000	700	PTVS1072	1STQ008518A0000	1/1
Vertical side segregation	800	900	PTVS8091	1STQ008519A0000	1/1
Vertical side segregation	1000	900	PTVS1091	1STQ008520A0000	1/1
Vertical rear lateral blind segregation					
Vertical side segregation	700	500	PLVS7052	1STQ009131A0000	1/1
Vertical side segregation	800	500	PTBS8052	1STQ008521A0000	1/1
Vertical side segregation	1000	500	PTBS1052	1STQ008522A0000	1/1
Vertical side segregation	700	700	PLVS7072	1STQ009132A0000	1/1
Vertical side segregation	800	700	PTBS8072	1STQ008523A0000	1/1
Vertical side segregation	1000	700	PTBS1072	1STQ008524A0000	1/1
Vertical side segregation	700	900	PLVS7092	1STQ009133A0000	1/1
Vertical side segregation	800	900	PTBS8091	1STQ008525A0000	1/1
Vertical side segregation	1000	900	PTVB1091	1STQ008526A0000	1/1



PTVS8052
PTVS1052



PTVS8072
PTVS1072

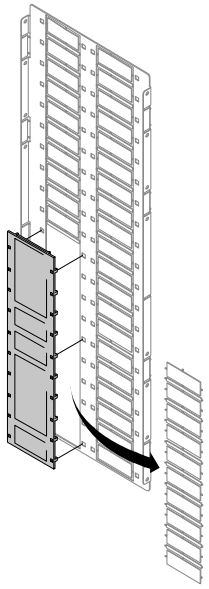


PTVS8091
PTVS1091

• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Segregation

Order codes - Busbar segregations Form 2b-3b-4a-4b



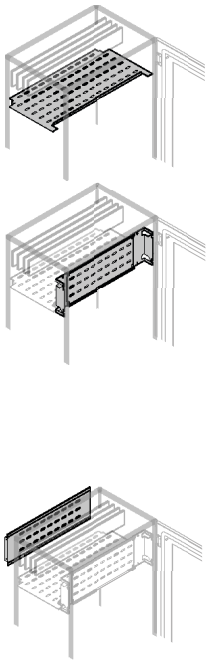
Rubber cover for precuts

Rubber cover for precut vertical segregation for routing the connections that can be installed on vertical segregations with precuts.

Order the rubber height equal to the size of the switch kit. In the case of 500mm height kits, order the 450mm height rubber.

Description	Dimensions (mm) H	Type	Order code	Pkg/ No. pcs
Rubber cover	150	PPRS0200	1STQ008583A0000	1/1
Rubber cover	200	PPRS0250	1STQ008584A0000	1/1
Rubber cover	250	PPRS0300	1STQ008585A0000	1/1
Rubber cover	300	PPRS0350	1STQ008586A0000	1/1
Rubber cover	350	PPRS0400	1STQ008587A0000	1/1
Rubber cover	400	PPRS0450	1STQ008588A0000	1/1
Rubber cover	450	PPRS0500	1STQ008589A0000	1/1
Rubber cover	550	PPRS0600	1STQ008590A0000	1/1

For precuts H = 800mm use No. 2 rubber cover H = 400mm PPRS0450
For precuts H = 1000mm use No. 1 rubber cover H = 450mm PPRS0500 and No. 1 rubber cover H = 550mm PPRS0600



Horizontal busbar segregation in structures without intermediate upright Form 2b

Full-width and full-depth horizontal segregations and full-width vertical segregations for routing busbars installed horizontally on the top, on the bottom, behind an empty compartment H=200mm, for structures without intermediate uprights.

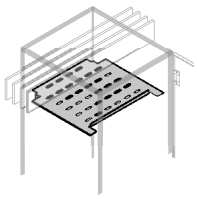
Description	Dimensions (mm) H	W	D	Type	Order code	Pkg/ No. pcs
Horizontal busbar shelves						
Horizontal shelf		400	300	PTHS4030	1STQ008499A0000	1/1
Horizontal shelf		400	500	PTHS4050	1STQ008500A0000	1/1
Horizontal shelf		400	700	PTHS4070	1STQ008501A0000	1/1
Horizontal shelf		600	300	PTHS6030	1STQ008502A0000	1/1
Horizontal shelf		600	500	PTHS6050	1STQ008503A0000	1/1
Horizontal shelf		600	700	PTHS6070	1STQ008504A0000	1/1
Horizontal shelf		800	300	PTHS8030	1STQ008505A0000	1/1
Horizontal shelf		800	500	PTHS8050	1STQ008506A0000	1/1
Horizontal shelf		800	700	PTHS8070	1STQ008507A0000	1/1
Front busbar segregations						
Front segregation	200	400		PFVS2040	1STQ008508A0000	1/1
Front segregation	200	600		PFVS2060	1STQ008509A0000	1/1
Front segregation	200	800		PFVS2080	1STQ008510A0000	1/1
Rear busbar segregations						
Rear segregation	200	400		PRVS2040	1STQ008845A0000	1/1
Rear segregation	200	600		PRVS2060	1STQ008855A0000	1/1
Rear segregation	200	800		PRVS2080	1STQ008865A0000	1/1

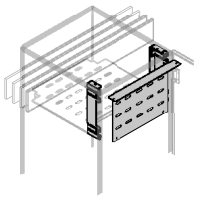
The horizontal shelves must be fixed to the vertical ones.

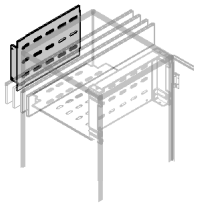
• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Segregation

Order codes - Busbar segregations Form 2b-3b-4a-4b





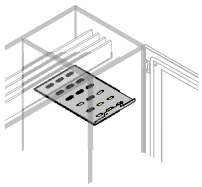


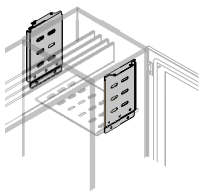
Horizontal busbar segregation for external cable compartment without intermediate upright Form 2b

Full-width and full-depth horizontal shelves and front busbar segregations for external cable compartments.

Description	Dimensions (mm) H	W	D	Type	Order code	Pkg/ No. pcs
Horizontal busbar shelves						
Horizontal shelf		300	300	PTHS3030	1STQ008547A0000	1/1
Horizontal shelf		300	500	PTHS3050	1STQ008548A0000	1/1
Horizontal shelf		300	700	PTHS3070	1STQ008549A0000	1/1
Horizontal shelf		300	900	PTHS3090	1STQ009077A0000	1/1
Horizontal shelf		400	300	PTHS4030	1STQ008499A0000	1/1
Horizontal shelf		400	500	PTHS4050	1STQ008500A0000	1/1
Horizontal shelf		400	700	PTHS4070	1STQ008501A0000	1/1
Horizontal shelf		400	900	PTHS4190	1STQ009078A0000	1/1
Front busbar segregations						
Front segregation	200	300		PFVS2130	1STQ008553A0000	1/1
Front segregation	200	400		PFVS2140	1STQ008554A0000	1/1
Rear busbar segregations						
Rear segregation	200	300		PRVS2040	1STQ008845A0000	1/1
Rear segregation	200	400		PRVS2062	1STQ008815A0000	1/1

The horizontal shelves must be fixed to the vertical ones.





Horizontal busbar segregation for internal cable compartment without intermediate upright Form 2b

Full-width and full-depth horizontal shelves and front busbar segregations for internal cable compartments.

Description	Dimensions (mm) H	W	D	Type	Order code	Pkg/ No. pcs
Horizontal busbar shelves						
Horizontal shelf		200	300	PTHS2030	1STQ008565A0000	1/1
Horizontal shelf		200	500	PTHS2050	1STQ008566A0000	1/1
Horizontal shelf		200	700	PTHS2070	1STQ008567A0000	1/1
Horizontal shelf		200	900	PTHS2090	1STQ009079A0000	1/1
Horizontal shelf		400	300	PTHS4230	1STQ008568A0000	1/1
Horizontal shelf		400	500	PTHS4250	1STQ008569A0000	1/1
Horizontal shelf		400	700	PTHS4270	1STQ008570A0000	1/1
Horizontal shelf		400	900	PTHS4290	1STQ009081A0000	1/1
Front/Rear busbar segregations						
Front/Rear segregation	200	300		PFVS2220	1STQ008571A0000	1/1
Front/Rear segregation	200	400		PFVS2240	1STQ008572A0000	1/1

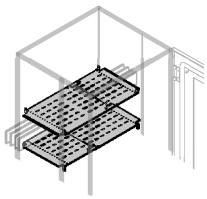
The horizontal shelves must be fixed to the vertical ones.

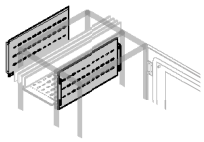
• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

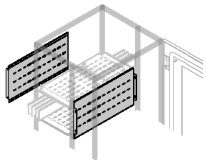
Segregation

Order codes - Busbar segregations Form 2b-3b-4a-4b









Horizontal busbar segregation in structures with intermediate upright
Horizontal shelves and front segregations for routing busbars installed horizontally on the top, on the bottom and at each heights. The busbar area can be 200 or 300mm in height.

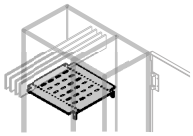
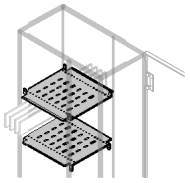
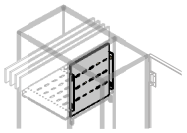
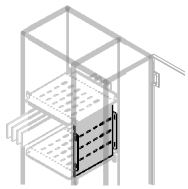
Description	Dimensions (mm) H	W	D	Type	Order code	Pkg/ No. pcs
Horizontal shelves for busbars under the top, on the bottom and at each heights						
Horizontal shelf		400	500	PTHS4052	1STQ008527A0000	1/1
Horizontal shelf		600	500	PTHS6052	1STQ008528A0000	1/1
Horizontal shelf		800	500	PTHS8052	1STQ008529A0000	1/1
Horizontal shelf		1000	500	PTHS1052	1STQ008530A0000	1/1
Horizontal shelf		400	700	PTHS4072	1STQ008531A0000	1/1
Horizontal shelf		600	700	PTHS6072	1STQ008532A0000	1/1
Horizontal shelf		800	700	PTHS8072	1STQ008533A0000	1/1
Horizontal shelf		1000	700	PTHS1072	1STQ008534A0000	1/1
Horizontal shelf		400	900	PTHS4092	1STQ008535A0000	1/1
Horizontal shelf		600	900	PTHS6092	1STQ008536A0000	1/1
Horizontal shelf		800	900	PTHS8092	1STQ008537A0000	1/1
Horizontal shelf		1000	900	PTHS1092	1STQ008538A0000	1/1
Horizontal shelf		1250	900	PTHS1292	1STQ009074A0000	1/1
Front segregation for busbars under the top, on the bottom and at each heights						
Front segregation	200	400		PFVS2042	1STQ008539A0000	1/1
Front segregation	200	600		PFVS2062	1STQ008540A0000	1/1
Front segregation	200	800		PFVS2082	1STQ008541A0000	1/1
Front segregation	200	1000		PFVS2012	1STQ008542A0000	1/1
Front segregation	200	1250		PFVS2122	1STQ009075A0000	1/1
Front segregation	250	600		PFVS2562	1STQ002360B0000	1/1
Front segregation	250	800		PFVS2582	1STQ002361B0000	1/1
Front segregation	300	400		PFVS3042	1STQ008543A0000	1/1
Front segregation	300	600		PFVS3062	1STQ008544A0000	1/1
Front segregation	300	800		PFVS3082	1STQ008545A0000	1/1
Front segregation	300	1000		PFVS3012	1STQ008546A0000	1/1
Front segregation	300	1250		PFVS3122	1STQ009076A0000	1/1
Rear segregation for busbars under the top, on the bottom and at each heights						
Rear segregation	200	400		PRVS2040	1STQ008845A0000	1/1
Rear segregation	200	600		PRVS2060	1STQ008855A0000	1/1
Rear segregation	200	800		PRVS2080	1STQ008865A0000	1/1
Rear segregation	200	1000		PRVS2010	1STQ008875A0000	1/1
Rear segregation	200	1250		PRVS2125	1STQ009139A0000	1/1
Rear segregation	250	400		PRVS2582	1STQ008827A0000	1/1
Rear segregation	250	600		PRVS2560	1STQ008857A0000	1/1
Rear segregation	250	800		PRVS2580	1STQ008867A0000	1/1
Rear segregation	250	1000		PRVS2510	1STQ008877A0000	1/1
Rear segregation	250	1250		PRVS2512	1STQ008837A0000	1/1
Rear segregation	300	600		PRVS306O	1STQ008858A0000	1/1
Rear segregation	300	800		PRVS3080	1STQ008868A0000	1/1
Rear segregation	300	1000		PRVS3010	1STQ008878A0000	1/1
Rear segregation	300	1250		PRVS3125	1STQ008884A0000	1/1

Busbars at each heights can be used only for segregation forms different from Form 2b.

• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Segregation

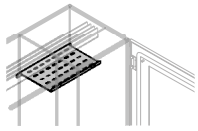
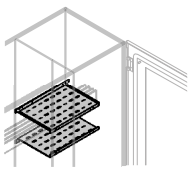
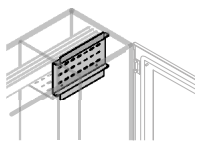
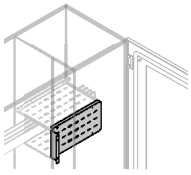
Order codes - Busbar segregations Form 2b-3b-4a-4b

Horizontal busbar segregation in external cable compartment with intermediate upright
Full-width rear horizontal shelves and front busbar segregations for assembly between intermediate upright and structural rear upright in external cable compartments.

Description	Dimensions (mm) H	W	D	Type	Order code	Pkg/ No. pcs
Horizontal shelves for busbars under the top, on the bottom and at each heights						
Horizontal shelf		300	500	PTHS3052	1STQ008555A0000	1/1
Horizontal shelf		300	700	PTHS3072	1STQ008556A0000	1/1
Horizontal shelf		300	900	PTHS3092	1STQ008557A0000	1/1
Horizontal shelf		400	500	PTHS4152	1STQ008558A0000	1/1
Horizontal shelf		400	700	PTHS4172	1STQ008559A0000	1/1
Horizontal shelf		400	900	PTHS4192	1STQ008560A0000	1/1
Front segregation for busbars under the top, on the bottom and at each heights						
Front segregation	200	300		PFVS2132	1STQ008561A0000	1/1
Front segregation	200	400		PFVS2042	1STQ008539A0000	1/1
Front segregation	300	300		PFVS3132	1STQ008563A0000	1/1
Front segregation	300	400		PFVS3042	1STQ008543A0000	1/1
Front segregation for busbars under the top, on the bottom and at each heights						
Rear segregation	200	400		PRVS2040	1STQ008845A0000	1/1
Rear segregation	200	300		PRVS2062	1STQ008815A0000	1/1
Rear segregation	300	400		PRVS3082	1STQ008828A0000	1/1
Rear segregation	300	300		PRVS3062	1STQ008818A0000	1/1

Busbars at each heights can be used only for segregation forms different from Form 2b.

Horizontal busbar segregation in internal cable compartments with intermediate upright
Full-width rear segregation for horizontal busbars. Assembly between intermediate upright and structural rear upright.

Description	Dimensions (mm) H	W	D	Type	Order code	Pkg/ No. pcs
Horizontal shelves for busbars under the top, on the bottom and at each heights						
Horizontal shelf		200	500	PTHS2052	1STQ008573A0000	1/1
Horizontal shelf		200	700	PTHS2072	1STQ008574A0000	1/1
Horizontal shelf		200	900	PTHS2092	1STQ008575A0000	1/1
Horizontal shelf		400	500	PTHS4252	1STQ008576A0000	1/1
Horizontal shelf		400	700	PTHS4272	1STQ008577A0000	1/1
Horizontal shelf		400	900	PTHS4292	1STQ008578A0000	1/1
Front rear segregation for busbars under the top or on the bottom						
Front segregation	200	200		PFVS2222	1STQ008579A0000	1/1
Front segregation	200	400		PFVS2242	1STQ008580A0000	1/1
Front segregation	300	200		PFVS3222	1STQ008581A0000	1/1
Front segregation	300	400		PFVS3242	1STQ008582A0000	1/1
Rear segregation for busbars at each heights						
Rear segregation	200	200		PFVS2220	1STQ008571A0000	1/1
Rear segregation	200	400		PFVS2240	1STQ008572A0000	1/1
Front segregation for busbars at each heights						
Front segregation	200	200		PFVS2223	1STQ009082A0000	1/1
Front segregation	200	400		PFVS2243	1STQ009083A0000	1/1
Front segregation	300	200		PFVS3223	1STQ009084A0000	1/1
Front segregation	300	400		PFVS3243	1STQ009085A0000	1/1

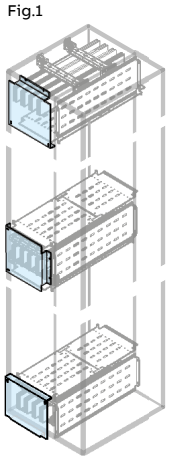
Busbars at each heights can be used only for segregation forms different from Form 2b.

• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Segregation

Order codes - Busbar segregations Form 2b-3b-4a-4b

Fig.1



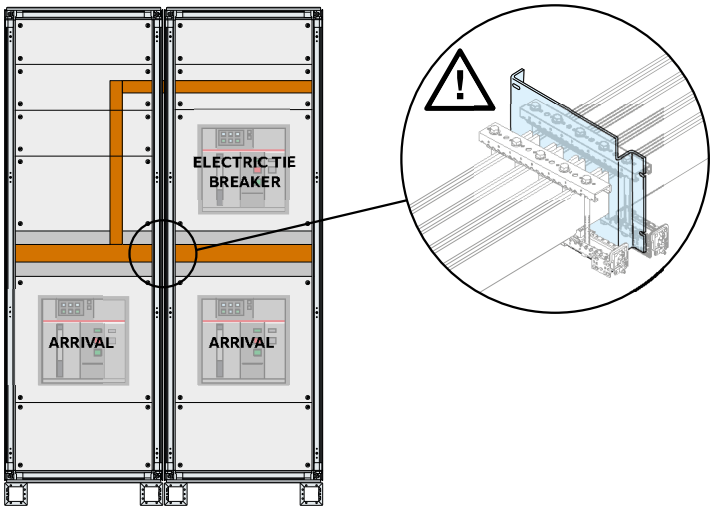
Lateral segregation for horizontal busbars system

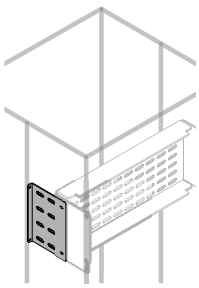
The Lexan side wall is used as segregation in the case of:

- side closing of horizontal busbars at the bottom of a bank of switchboards and in the presence of the side panel - fig.1
- joining of two structures crossed by separate horizontal busbars (incoming- bus-tie application); use of the Lexan side wall is mandatory for this application - fig.2

Description	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Side lexan bar closure	200	500	PLLS2050	1STQ001590B0000	1/1
Side lexan bar closure	200	700	PLLS2070	1STQ001591B0000	1/1
Side lexan bar closure	200	900	PLLS2090	1STQ001592B0000	1/1
Side lexan bar closure	250	700	PLLS2570	1STQ002358B0000	1/1
Side lexan bar closure	250	900	PLLS2590	1STQ002359B0000	1/1
Side lexan bar closure	300	500	PLLS3050	1STQ001593B0000	1/1
Side lexan bar closure	300	700	PLLS3070	1STQ001594B0000	1/1
Side lexan bar closure	300	900	PLLS3090	1STQ001595B0000	1/1

Fig.2





Side wall for input side. For blind compartment

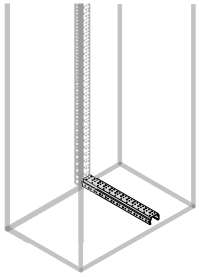
To be fitted from front upright to intermediate upright when there is an internal cable compartment alongside the blind compartment, with vertical busbars, or when the blind compartment is installed between a circuit-breaker and its feeder.

Description	Dimensions (mm) H	Type	Order code	Pkg/ No. pcs
Side wall for blind compartment	50	PPBS0050	1STQ009168A0000	1/1
Side wall for blind compartment	100	PPBS0100	1STQ009169A0000	1/1
Side wall for blind compartment	150	PPBS0150	1STQ001230B0000	1/1
Side wall for blind compartment	200	PPBS0200	1STQ009170A0000	1/1
Side wall for blind compartment	250	PPBS0250	1STQ009171A0000	1/1
Side wall for blind compartment	300	PPBS0300	1STQ009172A0000	1/1

• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Segregation

Order codes - Form 3b segregations

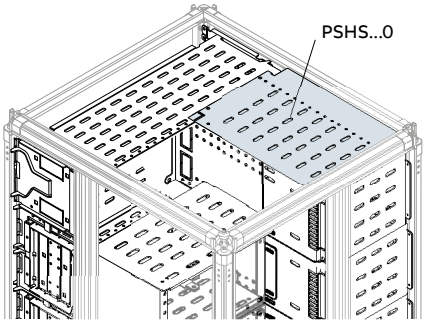


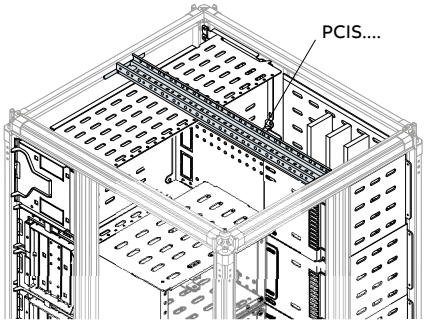
Intermediate crosspiece for rear intermediate uprights

The intermediate crosspiece is necessary only for horizontal breakers in order to assemble terminals segregations when the breakers is installed in the first available position in the structure (under the roof) or in the last available position of the structure (bottom).

The intermediate crosspieces can be used as an alternative to the PSHS... horizontal shelf.

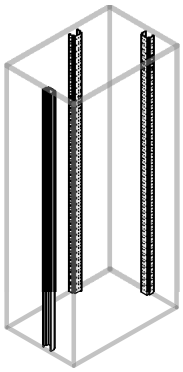
Description	Dimensions (mm) D	Type	Order code	Pkg/ No. pcs
Intermediate crosspiece	500	PCIS0500	1STQ009165A0000	1/1
Intermediate crosspiece	700	PCIS0700	1STQ009166A0000	1/1
Intermediate crosspiece	900	PCIS0900	1STQ009167A0000	1/1

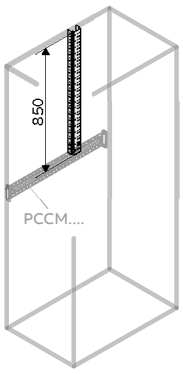




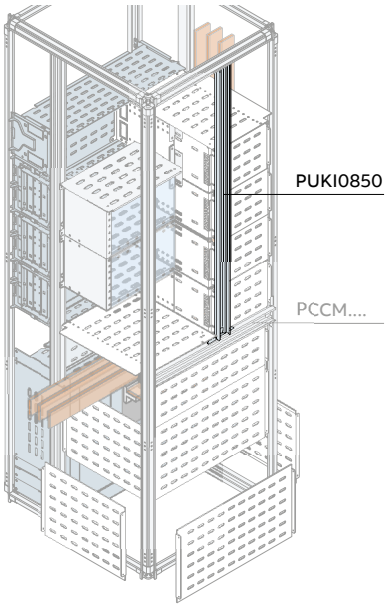
Intermediate side and rear upright for assembly of internal kits and segregations

The intermediate upright is the same as the one used for installing the kits and can be assembled both on the side and bottom of the structure. The intermediate upright is necessary for horizontal breakers in Form 3b.





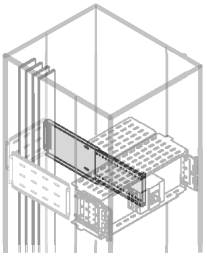
Description	Dimensions (mm) H	Type	Order code	Pkg/ No. pcs
Intermediate upright	1800	PUKI1800	1STQ008039A0000	1/1
Intermediate upright	2000	PUKI2000	1STQ008040A0000	1/1
Reduced rear intermediate upright	850	PUKI0850	1STQ002348B0000	1/1

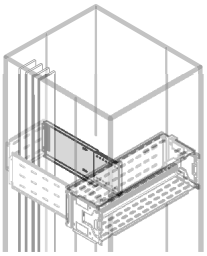


• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Segregation

Order codes - Form 3b segregations





Horizontal circuit-breaker segregation in structures with intermediate rear upright (for Tmax T e XT motorized)

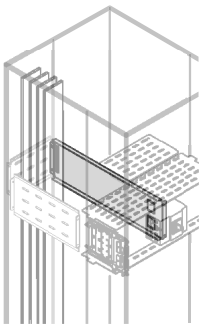
Rear vertical segregation with sliding plate at the same height as the circuit-breaker compartment. Assembly between the input and output terminals for horizontal circuit-breakers, from plate to rear intermediate upright.

Kit for installation of *Tmax* circuit-breakers	Dimensions (mm) H	P	Type	Order code	Pkg/ No. pcs
Vertical terminal separator with sliding plate					
XT1 3/4P F; F-RHD; F-MO; F-RC; P; P-RHD; **XT2** 3/4P F; F-RHD; F-MO; P; P-RHD; 4P F-RC; W; W-RHD **XT3** 3/4P F; F-RHD; F-MO; P; P-RHD; **XT4** 3/4P F; F-RHD; F-MO; P; P-RHD;4P F-RC; **T4** 3/4P F; F-RHD **T5** 3P F; F-RHD; P; P-RHD	200	500		1STQ008727A0000	1/1
XT2 3/4P W; W-RHD; 4P W-RC **XT3** 4P F-RC **XT4** 3/4P W;W-RHD; 4P W-RC **T5** 3/4P F; F-RHD; P; P-RHD; 4P F-RC;	250	500	PSVS2550	1STQ008728A0000	1/1
T5 3P W; W-RHD **T6** 3P F; F-RHD **XT7-T7** 3P F; F-I; F-I-MO; F-MO; F-RHD	300	500	PSVS3050	1STQ008729A0000	1/1
T5 3/4P W; W-RHD **T6** 3/4P F; F-RHD; 3P W; W-RHD **XT7-T7** 3P F; F-MO; F-RHD;	350	500	PSVS3550	1STQ008730A0000	1/1
XT7-T7 3/4P F-I; F-I-MO;E1.2 F; F-I	400	500	PSVS4050	1STQ008731A0000	1/1
T6 3/4P W; W-RHD;	500	500	PSVS5050	1STQ008733A0000	1/1
XT7-T7 3/4P W; W-I; W-I-MO; W-MO; W-RHD **E1.2** 3/4 P W; W-I	500	700	PSVS0055	1STQ009160A0000	1/1
	600	500	PSVS6050	1STQ008734A0000	1/1
XT1 3/4P F; F-RHD; F-MO; F-RC; P; P-RHD; **XT2** 3/4P F; F-RHD; F-MO; P; P-RHD; 4P F-RC; W; W-RHD **XT3** 3/4P F; F-RHD; F-MO; P; P-RHD; 4P F-RC **XT4** 3/4P F; F-RHD; F-MO; P; P-RHD;4P F-RC; **T4** 3/4P F; F-RHD; 4P F-RC **T5** 3P F; F-RHD; P; P-RHD	200	700	PSVS2070	1STQ008735A0000	1/1
XT2 3/4P W; W-RHD; 4P W-RC **XT3** 4P F-RC **XT4** 3/4P W;W-RHD; 4P W-RC **T5** 3/4P F; F-RHD; P; P-RHD; 4P F-RC;	250	700	PSVS2570	1STQ008736A0000	1/1
T5 3P W; W-RHD **T6** 3P F; F-RHD **XT7-T7** 3P F; F-I; F-I-MO; F-MO; ; F-RHD	300	700	PSVS3070	1STQ008737A0000	1/1
T5 3/4P W; W-RHD **T6** 3/4P F; F-RHD; 3P W; W-RHD **XT7-T7** 3P F; F-MO; F-RHD;	350	700	PSVS3570	1STQ008738A0000	1/1
XT7-T7 3/4P F-I; F-I-MO;E1.2 F; F-I	400	700	PSVS4070	1STQ008739A0000	1/1
T6 3/4P W; W-RHD;	500	700	PSVS5070	1STQ008741A0000	1/1
XT7-T7 3/4P W; W-I; W-I-MO;W-MO; W-RHD **E1.2** 3/4 P W; W-I	500	900	PSVS0057	1STQ009161A0000	1/1
	600	700	PSVS6070	1STQ008742A0000	1/1
XT1 3/4P F; F-RHD; F-MO; F-RC; P; P-RHD; **XT2** 3/4P F; F-RHD; F-MO; P; P-RHD; 4P F-RC; W; W-RHD **XT3** 3/4P F; F-RHD; F-MO; P; P-RHD; **XT4** 3/4P F; F-RHD; F-MO; P; P-RHD;4P F-RC; **T4** 3/4P F; F-RHD; 4P F-RC **T5** 3P F; F-RHD; P; P-RHD	200	900	PSVS2090	1STQ008743A0000	1/1
	250	900	PSVS2590	1STQ008744A0000	1/1
	300	900	PSVS3090	1STQ008745A0000	1/1
T5 3P W; W-RHD T6 3P F; F-RHD **XT7-T7** 3P F; F-I; F-I-MO; F-MO; F-RHD	350	900	PSVS3590	1STQ008746A0000	1/1
XT7-T7 3/4P F-I; F-I-MO;E1.2 F; F-I	400	900	PSVS4090	1STQ008747A0000	1/1
T6 3/4P W; W-RHD;	500	900	PSVS5090	1STQ008749A0000	1/1
	600	900	PSVS6090	1STQ008750A0000	1/1

• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Segregation

Order codes - Form 3b segregations



Horizontal circuit-breaker segregation in structures with intermediate rear upright (for Tmax T e XT motorized)

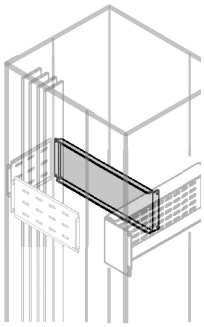
Rear vertical segregation with sliding plate at the same height as the circuit-breaker compartment. Assembly between the input and output terminals for horizontal circuit-breakers, from plate to rear intermediate upright.

Description	Kit for installation of Tmax circuit-breakers	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Vertical terminal separator	XT1-XT2-XT3-XT4 3/4 P MO T4 3/4P F MO T5 3P F MO 400/630A XT2 3P W MO	200	500	PSVS2051	1STQ002056B0000	1/1
	XT1-XT2-XT3-XT4 3/4 P MO T4 3/4P F MO T5 3P F MO 400/630A XT2 3P W MO	200	700	PSVS2071	1STQ002057B0000	1/1
	XT1-XT2-XT3-XT4 3/4 P MO T4 3/4P F MO T5 3P F MO 400/630A XT2 3P W MO	200	900	PSVS2091	1STQ002058B0000	1/1
	T5 3/4P F MO 400/630A XT2 XT4 3/4P W MO	250	500	PSVS2551	1STQ002059B0000	1/1
	T5 3/4P F MO 400/630A XT2 XT4 3/4P W MO	250	700	PSVS2571	1STQ002060B0000	1/1
	T5 3/4P F MO 400/630A XT2 XT4 3/4P W MO	250	900	PSVS2591	1STQ002061B0000	1/1
	T5 3P W MO	300	500	PSVS3051	1STQ002062B0000	1/1
	T5 3P W MO	300	700	PSVS3071	1STQ002063B0000	1/1
	T5 3P W MO	300	900	PSVS3091	1STQ002064B0000	1/1
	T5 3/4P W MO 400A T6 3P W MO	350	500	PSVS3551	1STQ002065B0000	1/1
	T5 3/4P W MO 400A T6 3P W MO	350	700	PSVS3571	1STQ002066B0000	1/1
	T5 3/4P W MO 400A T6 3P W MO	350	900	PSVS3591	1STQ002067B0000	1/1
	T6 3/4P W MO	500	500	PSVS5052	1STQ002379B0000	1/1
	T6 3/4P W MO	500	700	PSVS5072	1STQ002380B0000	1/1
	T6 3/4P W MO	500	900	PSVS5092	1STQ002381B0000	1/1
	T5 3/4P P MO	250	500	PSVS2553	1STQ002382B0000	1/1
	T5 3/4P P MO	250	700	PSVS2573	1STQ002383B0000	1/1
	T5 3/4P P MO	250	900	PSVS2593	1STQ002384B0000	1/1
	T6 3P F MO	300	500	PSVS5053	1STQ002385B0000	1/1
	T6 3P F MO	300	700	PSVS5073	1STQ002386B0000	1/1
	T6 3P F MO	300	900	PSVS5093	1STQ002387B0000	1/1
	T6 3/4P F MO	350	500	PSVS3553	1STQ002388B0000	1/1
	T6 3/4P F MO	350	700	PSVS3573	1STQ002389B0000	1/1
	T6 3/4P F MO	350	900	PSVS3593	1STQ002390B0000	1/1

Key:
F - MO fixed motor-operated
P - MO plug-in motor-operated
W - MO withdrawable motor-operated

Segregation

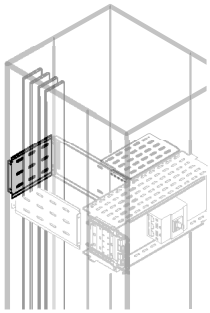
Order codes - Form 3b segregations



Rear segregation for blind compartment

Rear vertical segregation with plate for blind compartment.

Description	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Rear vertical separator blind compartment	50	500	PSVS0505	1STQ009086A0000	1/1
Rear vertical separator blind compartment	100	500	PSVS0105	1STQ009087A0000	1/1
Rear vertical separator blind compartment	150	500	PSVS0155	1STQ009088A0000	1/1
Rear vertical separator blind compartment	200	500	PSVS0205	1STQ009089A0000	1/1
Rear vertical separator blind compartment	250	500	PSVS0255	1STQ009090A0000	1/1
Rear vertical separator blind compartment	300	500	PSVS0305	1STQ009091A0000	1/1
Rear vertical separator blind compartment	50	700	PSVS0507	1STQ009092A0000	1/1
Rear vertical separator blind compartment	100	700	PSVS0107	1STQ009093A0000	1/1
Rear vertical separator blind compartment	150	700	PSVS0157	1STQ009094A0000	1/1
Rear vertical separator blind compartment	200	700	PSVS0207	1STQ009095A0000	1/1
Rear vertical separator blind compartment	250	700	PSVS0257	1STQ009096A0000	1/1
Rear vertical separator blind compartment	300	700	PSVS0307	1STQ009097A0000	1/1
Rear vertical separator blind compartment	50	900	PSVS0509	1STQ009098A0000	1/1
Rear vertical separator blind compartment	100	900	PSVS0109	1STQ009099A0000	1/1
Rear vertical separator blind compartment	150	900	PSVS0159	1STQ009100A0000	1/1
Rear vertical separator blind compartment	200	900	PSVS0209	1STQ009101A0000	1/1
Rear vertical separator blind compartment	250	900	PSVS0259	1STQ009102A0000	1/1
Rear vertical separator blind compartment	300	900	PSVS0309	1STQ009103A0000	1/1



Segregation for busbar side of horizontal circuit-breaker in structures with intermediate rear upright

Vertical rear bottom segregation with height equal to the compartment height and width equal to the distance between intermediate rear upright and structural rear upright on the busbar side.

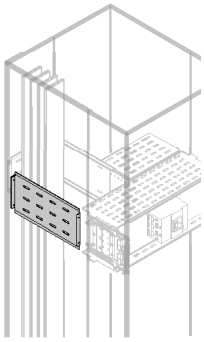
Description	Dimensions (mm) H	P	Type	Order code	Pkg/ No. pcs
Segregation bottom busbar side	200	400	PRVS2041	1STQ008765A0000	1/1
Segregation bottom busbar side	250	400	PRVS2541	1STQ008767A0000	1/1
Segregation bottom busbar side	300	400	PRVS3041	1STQ008768A0000	1/1
Segregation bottom busbar side	350	400	PRVS3541	1STQ008769A0000	1/1
Segregation bottom busbar side	400	400	PRVS4041	1STQ008770A0000	1/1
Segregation bottom busbar side	500	400	PRVS5041	1STQ008772A0000	1/1
Segregation bottom busbar side	600	400	PRVS6041	1STQ008773A0000	1/1
Segregation bottom busbar side	700	400	PRVS7041	1STQ009122A0000	1/1
Segregation bottom busbar side	200	600	PRVS2061	1STQ008775A0000	1/1
Segregation bottom busbar side	250	600	PRVS2561	1STQ008777A0000	1/1
Segregation bottom busbar side	300	600	PRVS3061	1STQ008778A0000	1/1
Segregation bottom busbar side	350	600	PRVS3561	1STQ008779A0000	1/1
Segregation bottom busbar side	400	600	PRVS4061	1STQ008780A0000	1/1
Segregation bottom busbar side	500	600	PRVS5061	1STQ008782A0000	1/1
Segregation bottom busbar side	600	600	PRVS6061	1STQ008783A0000	1/1
Segregation bottom busbar side	700	600	PRVS7061	1STQ009125A0000	1/1
Segregation bottom busbar side	50	800	PRVS0581	1STQ001970B0000	1/1
Segregation bottom busbar side	100	800	PRVS0181	1STQ001973B0000	1/1
Segregation bottom busbar side	300	800	PRVS3081	1STQ008788A0000	1/1
Segregation bottom busbar side	350	800	PRVS3581	1STQ008789A0000	1/1
Segregation bottom busbar side	400	800	PRVS4081	1STQ008790A0000	1/1
Segregation bottom busbar side	500	800	PRVS5081	1STQ008792A0000	1/1
Segregation bottom busbar side	600	800	PRVS6081	1STQ008793A0000	1/1
Segregation bottom busbar side	700	800	PRVS7081	1STQ009128A0000	1/1

For the closing of consecutive compartments it is possible to use the segregations at each height page 5-45.

• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Segregation

Order codes - Form 3b segregations

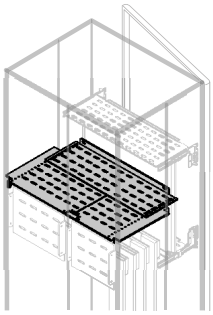


Side segregations for horizontal circuit-breakers in structures with intermediate upright and rear structural upright

Vertical rear side segregation with height equal to circuit-breaker compartment height. Assembly between intermediate upright and rear structural upright. H=800mm or H=1000mm segregations can be used as alternatives. When the installation of the busbars fixing crosspieces is needed with side segregations, use the PBBT0008 fixing brackets.

Description	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Side compartment segregation	200	500	PLVS2052	1STQ008886A0000	1/1
Side compartment segregation	250	500	PLVS2552	1STQ008888A0000	1/1
Side compartment segregation	300	500	PLVS3052	1STQ008889A0000	1/1
Side compartment segregation	350	500	PLVS3552	1STQ008890A0000	1/1
Side compartment segregation	400	500	PLVS4052	1STQ008891A0000	1/1
Side compartment segregation	500	500	PLVS5052	1STQ008893A0000	1/1
Side compartment segregation	600	500	PLVS6052	1STQ008894A0000	1/1
Side compartment segregation	200	700	PLVS2072	1STQ008896A0000	1/1
Side compartment segregation	250	700	PLVS2572	1STQ008898A0000	1/1
Side compartment segregation	300	700	PLVS3072	1STQ008899A0000	1/1
Side compartment segregation	350	700	PLVS3572	1STQ008900A0000	1/1
Side compartment segregation	400	700	PLVS4072	1STQ008901A0000	1/1
Side compartment segregation	500	700	PLVS5072	1STQ008903A0000	1/1
Side compartment segregation	600	700	PLVS6072	1STQ008904A0000	1/1
Side compartment segregation	200	900	PLVS2092	1STQ008906A0000	1/1
Side compartment segregation	250	900	PLVS2592	1STQ008908A0000	1/1
Side compartment segregation	300	900	PLVS3092	1STQ008909A0000	1/1
Side compartment segregation	350	900	PLVS3592	1STQ008910A0000	1/1
Side compartment segregation	400	900	PLVS4092	1STQ008911A0000	1/1
Side compartment segregation	500	900	PLVS5092	1STQ008913A0000	1/1
Side compartment segregation	600	900	PLVS6092	1STQ008914A0000	1/1

For the closing of consecutive compartments it is possible to use the segregations at each height page 5-45.



Vertical circuit-breaker segregation in structures with or without intermediate rear upright

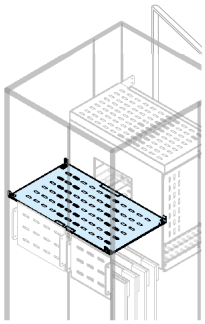
Horizontal rear segregation to fix behind plate as wide as the structure. In sheet metal for moulded-case Tmax T, XT and E1.2 fixed circuit-breakers. Useful for separating the terminals in vertical circuit-breakers. Pre-engineered for the presence/absence of an intermediate rear upright.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Horizontal terminal separator	400	500	PSHS4050	1STQ008751A0000	1/1
Horizontal terminal separator	600	500	PSHS6050	1STQ008752A0000	1/1
Horizontal terminal separator	800	500	PSHS8050	1STQ008753A0000	1/1
Horizontal terminal separator	400	700	PSHS4070	1STQ008755A0000	1/1
Horizontal terminal separator	600	700	PSHS6070	1STQ008756A0000	1/1
Horizontal terminal separator	800	700	PSHS8070	1STQ008757A0000	1/1
Horizontal terminal separator	400	900	PSHS4090	1STQ008759A0000	1/1
Horizontal terminal separator	600	900	PSHS6090	1STQ008760A0000	1/1
Horizontal terminal separator	800	900	PSHS8090	1STQ008761A0000	1/1

• Table selection guides page **5**–12 • Approval details page **7**–1 • Overall dimensions page **8**–1

Segregation

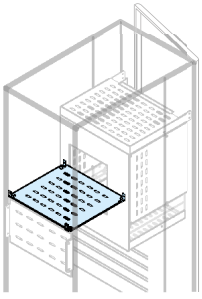
Order codes - Form 3b segregations



Segregation in Lexan for SACE Emax2 vertical circuit-breakers in structures with or without intermediate upright

Emax 2 circuit-breaker	Version	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
E1.2	W	600	500	PSHW6051[1]	1STQ009031A0000	1/1
E1.2	W	600	700	PSHW6071[1]	1STQ009032A0000	1/1
E1.2	W	600	900	PSHW6091[1]	1STQ009917A0000	1/1
E1.2	W	800	500	PSHW8051[1]	1STQ009033A0000	1/1
E1.2	W	800	700	PSHW8071[1]	1STQ009034A0000	1/1
E1.2	W	800	900	PSHW8091[1]	1STQ009918A0000	1/1
E2.2	F	600	700	PSHF6072	1STQ009035A0000	1/1
E2.2	F	600	900	PSHF6092	1STQ009036A0000	1/1
E2.2	F	800	700	PSHF8072	1STQ009037A0000	1/1
E2.2	F	800	900	PSHF8092	1STQ009038A0000	1/1
E2.2	W	600	700	PSHW6072	1STQ009039A0000	1/1
E2.2	W	600	900	PSHW6092	1STQ009040A0000	1/1
E2.2	W	800	700	PSHW8072	1STQ009041A0000	1/1
E2.2	W	800	900	PSHW8092	1STQ009042A0000	1/1
E2.2	W	1250	900	PSHW1292	1STQ004227B0000	1/1
E4.2	F	600	700	PSHF6072	1STQ009035A0000	1/1
E4.2	F	600	900	PSHF6092	1STQ009036A0000	1/1
E4.2	F	800	700	PSHF8072	1STQ009037A0000	1/1
E4.2	F	800	900	PSHF8092	1STQ009038A0000	1/1
E4.2	W	600	700	PSHW6074	1STQ009047A0000	1/1
E4.2	W	600	900	PSHW6094	1STQ009048A0000	1/1
E4.2	W	800	700	PSHW8074	1STQ009049A0000	1/1
E4.2	W	800	900	PSHW8094	1STQ009050A0000	1/1
E6.2	F	1000	900	PSHF1096	1STQ009051A0000	1/1
E6.2	F	1250	900	PSHF1296	1STQ009052A0000	1/1
E6.2	W	1000	900	PSHW1096	1STQ009053A0000	1/1
E6.2	W	1250	900	PSHW1296	1STQ009054A0000	1/1

[1] Also suitable for vertical T7 witdrawable and witdrawable interlocked.



Segregation in Lexan for the SACE Emax 2 circuit-breaker for space-saving column W=400mm

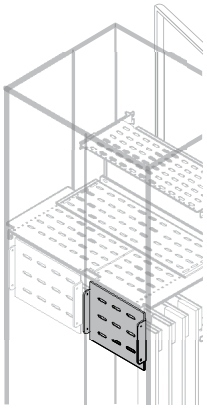
Emax 2 circuit-breaker	Version	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Vertical circuit-breakers						
E1.2	W	500	400	PSHW4051	1STQ001571B0000	1/1
E1.2	W	700	400	PSHW4071	1STQ001572B0000	1/1
E1.2	W	900	400	PSHW4091	1STQ001573B0000	1/1
E2.2	F	700	400	PSHF4072	1STQ001574B0000	1/1
E2.2	F	900	400	PSHF4092	1STQ001575B0000	1/1
E2.2	W	700	400	PSHW4072	1STQ001576B0000	1/1
E2.2	W	900	400	PSHW4092	1STQ001577B0000	1/1

Key:
F fixed
W withdrawable

• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Segregation

Order codes - Form 3b segregations

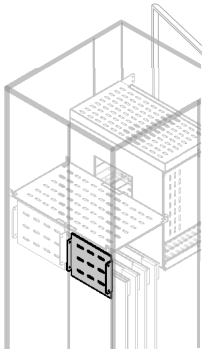


Vertical circuit-breaker segregation (segregation on busbar side) for fixed/ interlocked T5, T6, T7 and E1.2 in structures with intermediate rear uprights

Vertical rear bottom segregation with height equal to half the compartment height and width equal to the distance between intermediate rear upright and structural rear upright on the busbar side.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Segregation on bottom busbar side	175	400	PRVS1741	1STQ008764A0000	1/1
Segregation on bottom busbar side	200	400	PRVS2041	1STQ008765A0000	1/1
Segregation on bottom busbar side	225	400	PRVS2241	1STQ008766A0000	1/1
Segregation on bottom busbar side	300	400	PRVS3041	1STQ008768A0000	1/1
Segregation on bottom busbar side	175	600	PRVS1761	1STQ008774A0000	1/1
Segregation on bottom busbar side	200	600	PRVS2061	1STQ008775A0000	1/1
Segregation on bottom busbar side	225	600	PRVS2261	1STQ008776A0000	1/1
Segregation on bottom busbar side	250	600	PRVS2561	1STQ008777A0000	1/1
Segregation on bottom busbar side	300	600	PRVS3061	1STQ008778A0000	1/1
Segregation on bottom busbar side	175	800	PRVS1781	1STQ008784A0000	1/1
Segregation on bottom busbar side	200	800	PRVS2081	1STQ008785A0000	1/1
Segregation on bottom busbar side	225	800	PRVS2251	1STQ008786A0000	1/1
Segregation on bottom busbar side	250	800	PRVS2581	1STQ008787A0000	1/1
Segregation on bottom busbar side	300	800	PRVS3081	1STQ008788A0000	1/1

For the closing of consecutive compartments it is possible to use the segregations at each height page 5-45.



Vertical circuit-breaker segregation (segregation on busbar side) for Emax air circuit-breakers in structures with intermediate rear uprights

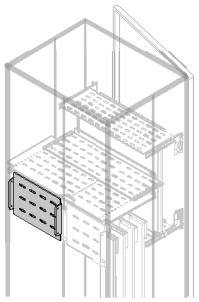
Vertical rear bottom segregation with height equal to half the compartment height and width equal to the distance between intermediate rear upright and structural rear upright on the busbar side.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Segregation on bottom busbar side	300	400	PRVS3041	1STQ008768A0000	1/1
Segregation on bottom busbar side	250	600	PRVS2561	1STQ008777A0000	1/1
Segregation on bottom busbar side	300	600	PRVS3061	1STQ008778A0000	1/1
Segregation on bottom busbar side	250	800	PRVS2581	1STQ008787A0000	1/1
Segregation on bottom busbar side	300	800	PRVS3081	1STQ008788A0000	1/1

For the closing of consecutive compartments it is possible to use the segregations at each height page 5-45.

Segregation

Order codes - Form 3b segregations

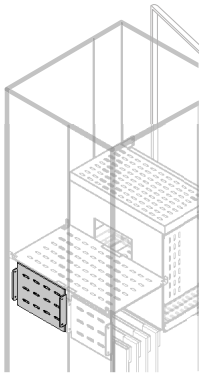


Vertical circuit-breaker segregation (segregation on output side) for fixed/ interlocked T5, T6, T7 and E1.2 in structures with intermediate rear uprights

Vertical rear bottom segregation with height equal to half the compartment height and width equal to the distance between intermediate rear upright and structural rear upright on the output side.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Segregation on bottom output side	175	600	PRVS1762	1STQ008814A0000	1/1
Segregation on bottom output side	200	600	PRVS2062	1STQ008815A0000	1/1
Segregation on bottom output side	225	600	PRVS2262	1STQ008816A0000	1/1
Segregation on bottom output side	250	600	PRVS2562	1STQ008817A0000	1/1
Segregation on bottom output side	175	800	PRVS1782	1STQ008824A0000	1/1
Segregation on bottom output side	200	800	PRVS2082	1STQ008825A0000	1/1
Segregation on bottom output side	225	800	PRVS2282	1STQ008826A0000	1/1
Segregation on bottom output side	250	800	PRVS2582	1STQ008827A0000	1/1

For the closing of consecutive compartments it is possible to use the segregations at each height page 5-45.



Vertical circuit-breaker segregation (segregation on output side) for SACE Emax 2 air circuit-breakers in structures with intermediate rear uprights

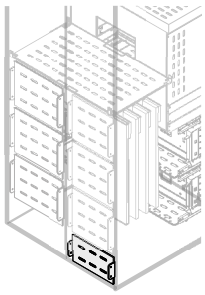
Vertical rear bottom segregation with height equal to half the compartment height and width equal to the distance between intermediate rear upright and structural rear upright on the output side.

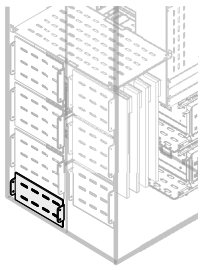
Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Segregazione posteriore lato uscite	250	600	PRVS2562	1STQ008817A0000	1/1
Segregazione posteriore lato uscite	300	600	PRVS3062	1STQ008818A0000	1/1
Segregazione posteriore lato uscite	250	800	PRVS2582	1STQ008827A0000	1/1
Segregazione posteriore lato uscite	300	800	PRVS3082	1STQ008828A0000	1/1

For the closing of consecutive compartments it is possible to use the segregations at each height page 5-45.

Segregation

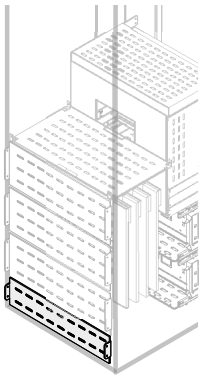
Order codes - Form 3b segregations





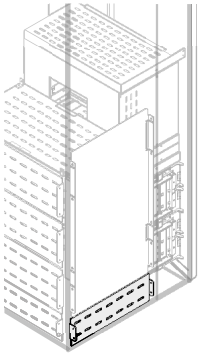
Vertical rear segregation in structures with intermediare rear upright

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
BUSBAR SIDE					
Segregation bottom busbar side	50	400	PRVS0541	1STQ001968B0000	1/1
Segregation bottom busbar side	100	400	PRVS0141	1STQ001971B0000	1/1
Segregation bottom busbar side	150	400	PRVS1541	1STQ001974B0000	1/1
Segregation bottom busbar side	50	600	PRVS0561	1STQ001969B0000	1/1
Segregation bottom busbar side	100	600	PRVS0161	1STQ001972B0000	1/1
Segregation bottom busbar side	150	600	PRVS1561	1STQ001975B0000	1/1
Segregation bottom busbar side	50	800	PRVS0581	1STQ001970B0000	1/1
Segregation bottom busbar side	100	800	PRVS0181	1STQ001973B0000	1/1
Segregation bottom busbar side	150	800	PRVS1581	1STQ001976B0000	1/1
BUSBAR SIDE					
Segregation on bottom output side	50	600	PRVS0562	1STQ001978B0000	1/1
Segregation on bottom output side	50	800	PRVS0582	1STQ001979B0000	1/1
Segregation on bottom output side	100	600	PRVS0162	1STQ001981B0000	1/1
Segregation on bottom output side	100	800	PRVS0182	1STQ001982B0000	1/1
Segregation on bottom output side	150	600	PRVS1562	1STQ001984B0000	1/1
Segregation on bottom output side	150	800	PRVS1582	1STQ001985B0000	1/1



Vertical rear segregation in structure without intermediate rear upright

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Full-width vertical segregation on bottom	50	600	PRVS0560	1STQ001996B0000	1/1
Full-width vertical segregation on bottom	100	800	PRVS1008	1STQ002000B0000	1/1
Full-width vertical segregation on bottom	150	600	PRVS1560	1STQ002002B0000	1/1
Full-width vertical segregation on bottom	50	800	PRVS0580	1STQ001997B0000	1/1
Full-width vertical segregation on bottom	100	600	PRVS1006	1STQ001999B0000	1/1
Full-width vertical segregation on bottom	150	800	PRVS1580	1STQ002003B0000	1/1
Full-width vertical segregation on bottom	50	400	PRVS0582	1STQ001979B0000	1/1
Full-width vertical segregation on bottom	100	400	PRVS0182	1STQ001982B0000	1/1
Full-width vertical segregation on bottom	150	400	PRVS1582	1STQ001985B0000	1/1



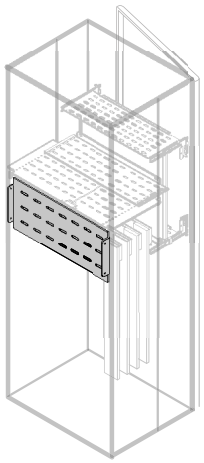
Lateral segregation in structure with intermediate upright

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Side compartment segregation	50	500	PLVS0552	1STQ001986B0000	1/1
Side compartment segregation	50	700	PLVS0572	1STQ001987B0000	1/1
Side compartment segregation	50	900	PLVS0592	1STQ001988B0000	1/1
Side compartment segregation	100	500	PLVS1052	1STQ001989B0000	1/1
Side compartment segregation	100	700	PLVS1072	1STQ001990B0000	1/1
Side compartment segregation	100	900	PLVS1092	1STQ001991B0000	1/1
Side compartment segregation	150	500	PLVS1552	1STQ001992B0000	1/1
Side compartment segregation	150	700	PLVS1572	1STQ001993B0000	1/1
Side compartment segregation	150	900	PLVS1592	1STQ001994B0000	1/1

• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Segregation

Order codes - Form 3b segregations

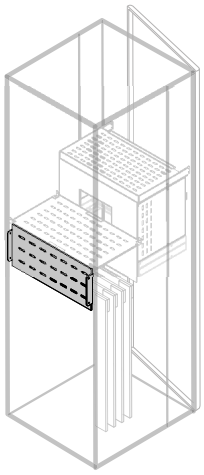


Segregation for vertical fixed/interlocked T5, T6, T7 and E1.2 circuit-breakers in structures without intermediate upright.

Vertical rear bottom segregation with height equal to half the compartment height and full-width.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Full-width segregation on bottom	175	400	PRVS1740	1STQ008844A0000	1/1
Full-width segregation on bottom	200	400	PRVS2040	1STQ008845A0000	1/1
Full-width segregation on bottom	225	400	PRVS2240	1STQ008846A0000	1/1
Full-width segregation on bottom	175	600	PRVS1760	1STQ008854A0000	1/1
Full-width segregation on bottom	200	600	PRVS2060	1STQ008855A0000	1/1
Full-width segregation on bottom	225	600	PRVS2260	1STQ008856A0000	1/1
Full-width segregation on bottom	250	600	PRVS2560	1STQ008857A0000	1/1
Full-width segregation on bottom	300	600	PRVS3060	1STQ008858A0000	1/1
Full-width segregation on bottom	175	800	PRVS1780	1STQ008864A0000	1/1
Full-width segregation on bottom	200	800	PRVS2080	1STQ008865A0000	1/1
Full-width segregation on bottom	225	800	PRVS2280	1STQ008866A0000	1/1
Full-width segregation on bottom	250	800	PRVS2580	1STQ008867A0000	1/1
Full-width segregation on bottom	300	800	PRVS3080	1STQ008868A0000	1/1
Full-width segregation on bottom	175	1000	PRVS1710	1STQ008874A0000	1/1
Full-width segregation on bottom	200	1000	PRVS2010	1STQ008875A0000	1/1
Full-width segregation on bottom	225	1000	PRVS2210	1STQ008876A0000	1/1
Full-width segregation on bottom	250	1000	PRVS2510	1STQ008877A0000	1/1
Full-width segregation on bottom	350	1000	PRVS3510	1STQ008879A0000	1/1
Full-width segregation on bottom	200	1250	PRVS2125	1STQ009139A0000	1/1
Full-width segregation on bottom	250	1250	PRVS2512	1STQ008837A0000	1/1

For the closing of consecutive compartments it is possible to use the segregations at each height page 5-45.



Segregation for SACE Emax2 vertical air circuit-breakers in structures without intermediate rear upright

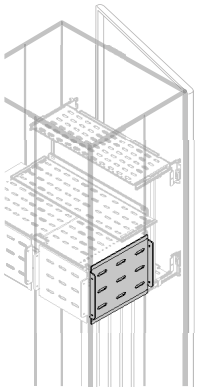
Vertical rear bottom segregation with height equal to half the compartment height and full-width.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Full-width vertical segregation on bottom	250	600	PRVS2560	1STQ008857A0000	1/1
Full-width vertical segregation on bottom	300	600	PRVS3060	1STQ008858A0000	1/1
Full-width vertical segregation on bottom	450	600	PRVS4560	1STQ008861A0000	1/1
Full-width vertical segregation on bottom	500	600	PRVS5060	1STQ008862A0000	1/1
Full-width vertical segregation on bottom	600	600	PRVS6060	1STQ008863A0000	1/1
Full-width vertical segregation on bottom	650	600	PRVS6560	1STQ002353A0000	1/1
Full-width vertical segregation on bottom	250	800	PRVS2580	1STQ008867A0000	1/1
Full-width vertical segregation on bottom	300	800	PRVS3080	1STQ008868A0000	1/1
Full-width vertical segregation on bottom	450	800	PRVS4580	1STQ008871A0000	1/1
Full-width vertical segregation on bottom	500	800	PRVS5080	1STQ008872A0000	1/1
Full-width vertical segregation on bottom	600	800	PRVS6080	1STQ008873A0000	1/1
Full-width vertical segregation on bottom	650	800	PRVS6580	1STQ002357A0000	1/1
Full-width vertical segregation on bottom	250	1000	PRVS2510	1STQ008877A0000	1/1
Full-width vertical segregation on bottom	300	1000	PRVS3010	1STQ008878A0000	1/1
Full-width vertical segregation on bottom	350	1000	PRVS3510	1STQ008879A0000	1/1
Full-width vertical segregation on bottom	250	1250	PRVS2512	1STQ008837A0000	1/1
Full-width vertical segregation on bottom	300	1250	PRVS3125	1STQ008884A0000	1/1
Full-width vertical segregation on bottom	350	1250	PRVS3501	1STQ009141A0000	1/1

For the closing of consecutive compartments it is possible to use the segregations at each height page 5/45.

Segregation

Order codes - Form 3b segregations

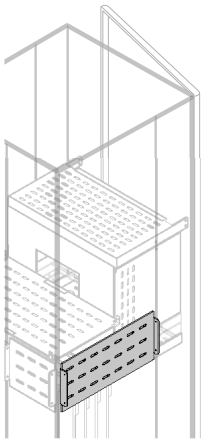


Segregation for vertical fixed/interlocked T5, T6, T7 and E1.2 circuit-breakers with intermediate upright and structural rear upright.

Vertical side segregation with height equal to half the circuit-breaker compartment height. Assembly between intermediate upright and structural rear upright. H=800mm or H=1000mm segregations can be used.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Side compartment segregation	175	500	PLVS1752	1STQ008885A0000	1/1
Side compartment segregation	200	500	PLVS2052	1STQ008886A0000	1/1
Side compartment segregation	225	500	PLVS2252	1STQ008887A0000	1/1
Side compartment segregation	250	500	PLVS2552	1STQ008888A0000	1/1
Side compartment segregation	175	700	PLVS1772	1STQ008895A0000	1/1
Side compartment segregation	200	700	PLVS2072	1STQ008896A0000	1/1
Side compartment segregation	225	700	PLVS2272	1STQ008897A0000	1/1
Side compartment segregation	250	700	PLVS2572	1STQ008898A0000	1/1
Side compartment segregation	175	900	PLVS1792	1STQ008905A0000	1/1
Side compartment segregation	200	900	PLVS2092	1STQ008906A0000	1/1
Side compartment segregation	225	900	PLVS2292	1STQ008907A0000	1/1
Side compartment segregation	250	900	PLVS2592	1STQ008908A0000	1/1

For the closing of consecutive compartments it is possible to use the segregations at each height page 5-45.



Segregation for SACE Emax2 vertical air circuit-breakers in structures without intermediate rear upright

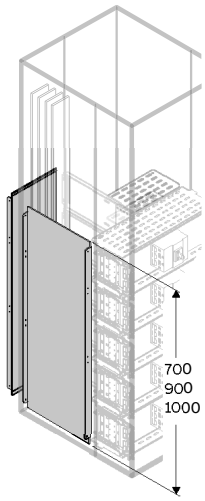
Vertical side segregation with height equal to half the circuit-breaker compartment height. Assembly between intermediate upright and rear structural upright. H=800mm or H=1000mm segregations can be used.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Side compartment segregation	250	500	PLVS2552	1STQ008888A0000	1/1
Side compartment segregation	300	500	PLVS3052	1STQ008889A0000	1/1
Side compartment segregation	350	500	PLVS3552	1STQ008890A0000	1/1
Side compartment segregation	250	700	PLVS2572	1STQ008898A0000	1/1
Side compartment segregation	300	700	PLVS3072	1STQ008899A0000	1/1
Side compartment segregation	350	700	PLVS3572	1STQ008900A0000	1/1
Side compartment segregation	250	900	PLVS2592	1STQ008908A0000	1/1
Side compartment segregation	300	900	PLVS3092	1STQ008909A0000	1/1
Side compartment segregation	350	900	PLVS3592	1STQ008910A0000	1/1

For the closing of consecutive compartments it is possible to use the segregations at each height page 5-45.

Segregation

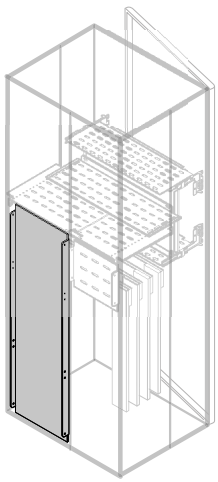
Order codes - Form 3b segregations



Vertical segregations at each height

To be used in alternative to (rear and side) cells vertical segregations, with different breakers combined together up to H=700-800-1000mm.

Description	Dimensions (mm) H	W	D	Type	Order code	Pkg/ No. pcs
Vertical segregatios at each height busbars side						
Segregation at each height busbars side	700	400		PRVS7041	1STQ009122A0000	1/1
Segregation at each height busbars side	800	400		PRVS8041	1STQ009123A0000	1/1
Segregation at each height busbars side	1000	400		PRVS1041	1STQ009124A0000	1/1
Segregation at each height busbars side	700	600		PRVS7061	1STQ009125A0000	1/1
Segregation at each height busbars side	800	600		PRVS8061	1STQ009126A0000	1/1
Segregation at each height busbars side	1000	600		PRVS1061	1STQ009127A0000	1/1
Segregation at each height busbars side	700	800		PRVS7081	1STQ009128A0000	1/1
Segregation at each height busbars side	800	800		PRVS8081	1STQ009129A0000	1/1
Segregation at each height busbars side	1000	800		PRVS1081	1STQ009130A0000	1/1
Vertical side segregatios at each height						
Side segregation at each height	700		500	PLVS7052	1STQ009131A0000	1/1
Side segregation at each height	800		500	PTBS8052	1STQ008521A0000	1/1
Side segregation at each height	1000		500	PTBS1052	1STQ008522A0000	1/1
Side segregation at each height	700		700	PLVS7072	1STQ009132A0000	1/1
Side segregation at each height	800		700	PTBS8072	1STQ008523A0000	1/1
Side segregation at each height	1000		700	PTBS1072	1STQ008524A0000	1/1
Side segregation at each height	700		900	PLVS7092	1STQ009133A0000	1/1
Side segregation at each height	800		900	PTBS8091	1STQ008525A0000	1/1
Side segregation at each height	1000		900	PTVB1091	1STQ008526A0000	1/1



Vertical circuit-breaker segregation in structures with intermediate rear upright

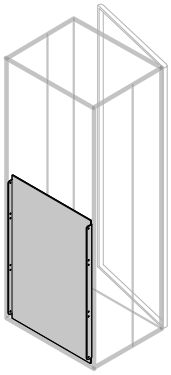
Vertical rear segregation 700/800/1000mm in height and width equal to the distance between intermediate upright and structural rear upright on the output side.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Rear segregation output side	700	600	PRVS7062	1STQ009104A0000	1/1
Rear segregation output side	800	600	PRVS8062	1STQ009105A0000	1/1
Rear segregation output side	1000	600	PRVS1062	1STQ009106A0000	1/1
Rear segregation output side	700	800	PRVS7082	1STQ009107A0000	1/1
Rear segregation output side	800	800	PRVS8082	1STQ009108A0000	1/1
Rear segregation output side	1000	800	PRVS1082	1STQ009109A0000	1/1

• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Segregation

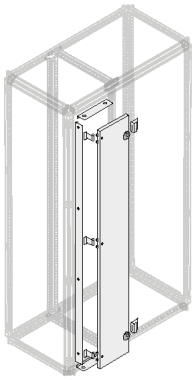
Order codes - Form 3b segregations



Full-width vertical segregation on bottom

Full-width vertical rear segregation on bottom for structures without intermediate rear upright.

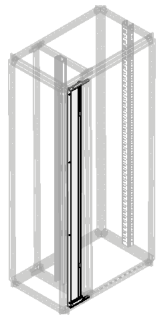
Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Full-width segregation on bottom	700	400	PRVS7040	1STQ009110A0000	1/1
Full-width segregation on bottom	800	400	PRVS8040	1STQ009111A0000	1/1
Full-width segregation on bottom	1000	400	PRVS1040	1STQ009112A0000	1/1
Full-width segregation on bottom	700	600	PRVS7060	1STQ009113A0000	1/1
Full-width segregation on bottom	800	600	PRVS8060	1STQ009114A0000	1/1
Full-width segregation on bottom	1000	600	PRVS1060	1STQ009115A0000	1/1
Full-width segregation on bottom	700	800	PRVS7080	1STQ009116A0000	1/1
Full-width segregation on bottom	800	800	PRVS8080	1STQ009117A0000	1/1
Full-width segregation on bottom	1000	800	PRVS1080	1STQ009118A0000	1/1
Full-width segregation on bottom	700	1000	PRVS7010	1STQ009119A0000	1/1
Full-width segregation on bottom	800	1000	PRVS8010	1STQ009120A0000	1/1
Full-width segregation on bottom	1000	1000	PRVS1010	1STQ009121A0000	1/1



Internal door for internal cable compartment – Pickled steel sheet

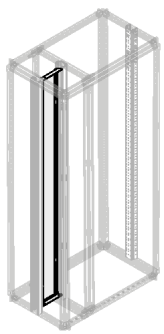
Internal door in pickled steel sheet for cable compartment IP30.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Blind door for internal cable compartment	1800	200	PDCB1820	1STQ007753A0000	1/1
Blind door for internal cable compartment	1800	400	PDCB1840	1STQ007754A0000	1/1
Blind door for internal cable compartment	2000	200	PDCB2020	1STQ007755A0000	1/1
Blind door for internal cable compartment	2000	400	PDCB2040	1STQ007756A0000	1/1



Vertical front segregation for internal cable compartment

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Vertical front segregation	1800	200	PFBS8020	1STQ001481B0000	1/1
Vertical front segregation	1800	400	PFBS8040	1STQ001483B0000	1/1
Vertical front segregation	2000	200	PFBS1020	1STQ001482B0000	1/1
Vertical front segregation	2000	400	PFBS1040	1STQ001484B0000	1/1



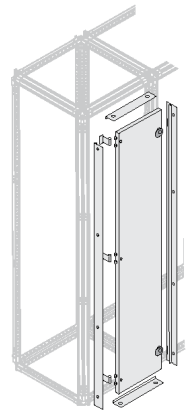
Vertical segregation at intermediate upright in internal cable container

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Vertical front segregation	1800	200	PFBS8021	1STQ002068B0000	1/1
Vertical front segregation	2000	200	PFBS1021	1STQ002069B0000	1/1
Vertical front segregation	1800	400	PFBS8041	1STQ002070B0000	1/1
Vertical front segregation	2000	400	PFBS1041	1STQ002071B0000	1/1

• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Segregation

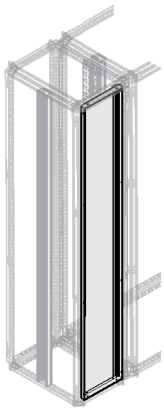
Order codes - Form 3b segregations



Internal door for external cable compartment – Pickled steel sheet

Internal door in pickled steel sheet for cable compartment IP30.

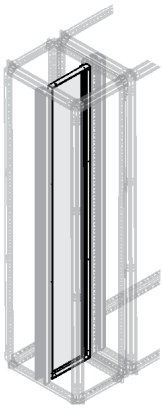
Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Blind door for external cable compartment	1800	300	PDCB1830	1STQ008086A0000	1/1
Blind door for external cable compartment	1800	400	PDCB1844	1STQ008087A0000	1/1
Blind door for external cable compartment	2000	300	PDCB2030	1STQ008088A0000	1/1
Blind door for external cable compartment	2000	400	PDCB2044	1STQ008089A0000	1/1



Vertical front segregation for external cable compartment

To be used in IP3X protections degree enclosures Form 2a-3a or in segregated enclosures from Form 3b.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Vertical front segregation	1800	300	PFVS8030	1STQ001485B0000	1/1
Vertical front segregation	1800	400	PFVS8040	1STQ001487B0000	1/1
Vertical front segregation	2000	300	PFVS1030	1STQ001486B0000	1/1
Vertical front segregation	2000	400	PFVS1040	1STQ001488B0000	1/1



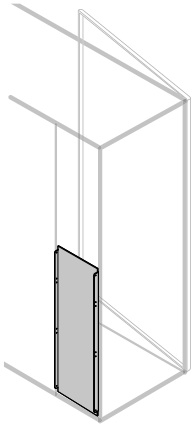
Vertical segregation at intermediate upright in external cable containert

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Vertical front segregation	1800	300	PFVS8032	1STQ002072B0000	1/1
Vertical front segregation	1800	400	PFVS8042	1STQ002073B0000	1/1
Vertical front segregation	2000	300	PFVS1032	1STQ002074B0000	1/1
Vertical front segregation	2000	400	PFVS1042	1STQ002075B0000	1/1

• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Segregation

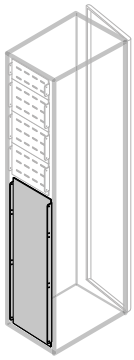
Order codes - Form 3b segregations



Vertical rear internal segregation

Blind rear vertical segregation for internal cable compartment.

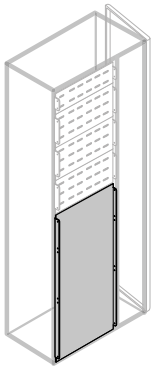
Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Vertical rear segregation	800	200	PRBS8220	1STQ008915A0000	1/1
Vertical rear segregation	1000	200	PRBS1220	1STQ008916A0000	1/1
Vertical rear segregation	800	400	PRBS8240	1STQ008919A0000	1/1
Vertical rear segregation	1000	400	PRBS1240	1STQ008920A0000	1/1



Vertical rear segregation of external cable compartment

Vertical blind rear segregation for external cable compartment.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Vertical rear segregation	800	300	PRVS8062	1STQ009105A0000	1/1
Vertical rear segregation	1000	300	PRVS1062	1STQ009106A0000	1/1
Vertical rear segregation	800	400	PRVS8040	1STQ009111A0000	1/1
Vertical rear segregation	1000	400	PRVS1040	1STQ009112A0000	1/1



Lateral segregation of the external cable compartment with intermediate upright

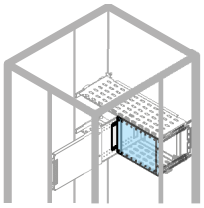
Side blind segregation for external cable compartment.

Description	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Vertical side segregation	700	500	PLVS7052	1STQ009131A0000	1/1
Vertical side segregation	800	500	PTBS8052	1STQ008521A0000	1/1
Vertical side segregation	1000	500	PTBS1052	1STQ008522A0000	1/1
Vertical side segregation	700	700	PLVS7072	1STQ009132A0000	1/1
Vertical side segregation	800	700	PTBS8072	1STQ008523A0000	1/1
Vertical side segregation	1000	700	PTBS1072	1STQ008524A0000	1/1
Vertical side segregation	700	900	PLVS7092	1STQ009133A0000	1/1
Vertical side segregation	800	900	PTBS8091	1STQ008525A0000	1/1
Vertical side segregation	1000	900	PTVB1091	1STQ008526A0000	1/1

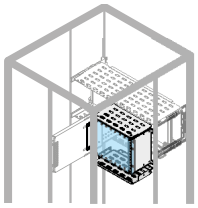
Codes PLVS... can also be mounted here.

Segregation

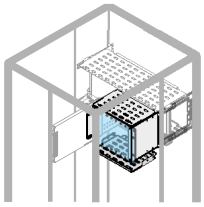
Order codes - Form 4b segregations



Position P0



Position P1



Position P2

Choice of segregation to suit depth of circuit-breaker

For segregation 4b, choose kits corresponding to the depth of each circuit-breaker in the required version, as indicated in the tables below.

Minimum cubicle depth for horizontal switches with front terminals and rear output

Circuit-breaker version	XT1	XT2	XT3	XT4	T4	T5	T6	T7	E1.2
Fixed	P0	P0	P0	P0	P0	P0	P0	P0	P0
Fixed with direct crank handle (RHD)	P0	P0	P0	P0	P0	P0	P0	P0	
Fixed with motor operator (MO)	P0	P0	P0	P0				P0	
Fixed interlocked	P0	P0	P0	P0	P0	P0	P0	P0	P0
Fixed interlocked motor-operated								P0	

Minimum cubicle depth as a function of the rear terminals of the horizontal switch.

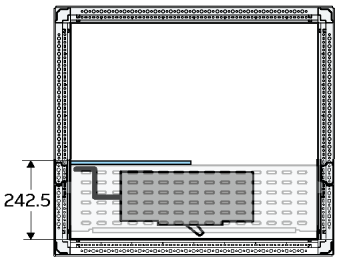
Circuit-breaker version	XT1	XT2	XT3	XT4	T4	T5	T6	T7	E1.2
Fixed	P0	P0	P0	P0	P1	P1	P1	P1	P1
Fixed with direct crank handle (RHD)	P1	P1	P1	P1	P1	P1	P1	P1	
Fixed with motor operator (MO)	P1	P1	P1	P1	P2	P2	P2	P1	
Fixed interlocked								P1	
Fixed interlocked motor-operated								P1	
Plug-in	P0	P1	P1	P1		P1			
Plug-in with direct crank handle (RHD)	P1	P1	P1	P1		P1			
Plug-in with motor operator (MO)	P2	P2	P2	P2					
Withdrawable		P1		P1		P1	P1	■	■
Withdrawable with direct crank handle (RHD)		P1		P1		P1	P1	■	■
Withdrawable with motor operator (MO)		P2		P2					

■ See codes on page 5-16.

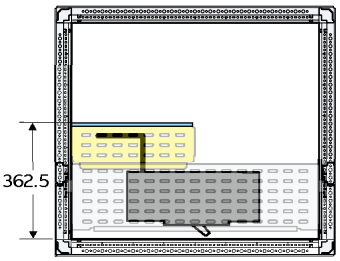
NOTE

Cubicles P0, P1, P2 and P3 are interchangeable, not only in terms of the circuit-breaker terminals but also of the switchboard depth or in the presence of CTs. Consult the table on page 8-23 for details (Overall Dimensions chapter).

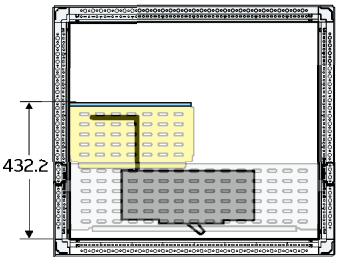
Assembly position P0



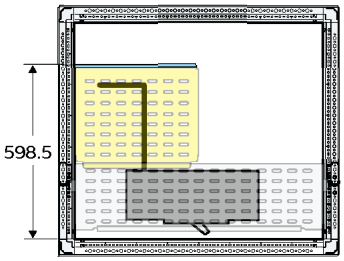
Assembly position P1



Assembly position P2

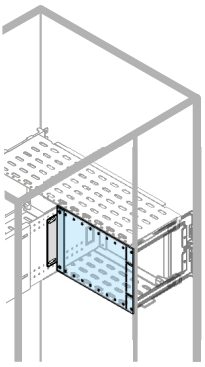


Assembly position P3



Segregation

Order codes - Form 4b segregations

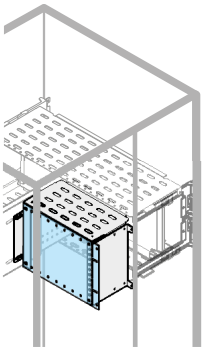


Position P0

Segregation for horizontal circuit-breakers in position 0

Sheet metal corner piece to fix to separator PSVS…. With vertical Lexan panel at compartment height.

Description	Assembly position	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Corner piece and panel in Lexan	P0	200	400	PCVS0204	1STQ008931A0000	1/1
Corner piece and panel in Lexan	P0	250	400	PCVS0254	1STQ008932A0000	1/1
Corner piece and panel in Lexan	P0	300	400	PCVS0304	1STQ008933A0000	1/1
Corner piece and panel in Lexan	P0	350	400	PCVS0354	1STQ008934A0000	1/1
Corner piece and panel in Lexan	P0	400	400	PCVS0404	1STQ008935A0000	1/1
Corner piece and panel in Lexan	P0	500	400	PCVS0504	1STQ008937A0000	1/1
Corner piece and panel in Lexan	P0	600	400	PCVS0604	1STQ008938A0000	1/1
Corner piece and panel in Lexan	P0	200	600	PCVS0206	1STQ008939A0000	1/1
Corner piece and panel in Lexan	P0	250	600	PCVS0256	1STQ008940A0000	1/1
Corner piece and panel in Lexan	P0	300	600	PCVS0306	1STQ008941A0000	1/1
Corner piece and panel in Lexan	P0	350	600	PCVS0356	1STQ008942A0000	1/1
Corner piece and panel in Lexan	P0	400	600	PCVS0406	1STQ008943A0000	1/1
Corner piece and panel in Lexan	P0	500	600	PCVS0506	1STQ008945A0000	1/1
Corner piece and panel in Lexan	P0	600	600	PCVS0606	1STQ008946A0000	1/1
Corner piece and panel in Lexan	P0	200	800	PCVS0208	1STQ008947A0000	1/1
Corner piece and panel in Lexan	P0	250	800	PCVS0258	1STQ008948A0000	1/1
Corner piece and panel in Lexan	P0	300	800	PCVS0308	1STQ008949A0000	1/1
Corner piece and panel in Lexan	P0	350	800	PCVS0358	1STQ008950A0000	1/1
Corner piece and panel in Lexan	P0	400	800	PCVS0408	1STQ008951A0000	1/1
Corner piece and panel in Lexan	P0	500	800	PCVS0508	1STQ008953A0000	1/1
Corner piece and panel in Lexan	P0	600	800	PCVS0608	1STQ008954A0000	1/1



Position P1

Segregation for horizontal circuit-breakers in position 1

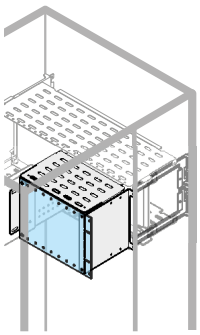
Sheet metal corner piece to fix on separator PSVS…. With vertical Lexan panel at compartment height, horizontal shelf and side wall.

Description	Assembly position	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Rear cubicle	P1	200	400	PCVS1204	1STQ008963A0000	1/1
Rear cubicle	P1	250	400	PCVS1254	1STQ008964A0000	1/1
Rear cubicle	P1	300	400	PCVS1304	1STQ008965A0000	1/1
Rear cubicle	P1	350	400	PCVS1354	1STQ008966A0000	1/1
Rear cubicle	P1	400	400	PCVS1404	1STQ008967A0000	1/1
Rear cubicle	P1	500	400	PCVS1504	1STQ008969A0000	1/1
Rear cubicle	P1	600	400	PCVS1604	1STQ008970A0000	1/1
Rear cubicle	P1	200	600	PCVS1206	1STQ008971A0000	1/1
Rear cubicle	P1	250	600	PCVS1256	1STQ008972A0000	1/1
Rear cubicle	P1	300	600	PCVS1306	1STQ008973A0000	1/1
Rear cubicle	P1	350	600	PCVS1356	1STQ008974A0000	1/1
Rear cubicle	P1	400	600	PCVS1406	1STQ008975A0000	1/1
Rear cubicle	P1	500	600	PCVS1506	1STQ008977A0000	1/1
Rear cubicle	P1	600	600	PCVS1606	1STQ008978A0000	1/1
Rear cubicle	P1	200	800	PCVS1208	1STQ008979A0000	1/1
Rear cubicle	P1	250	800	PCVS1258	1STQ008980A0000	1/1
Rear cubicle	P1	300	800	PCVS1308	1STQ008981A0000	1/1
Rear cubicle	P1	350	800	PCVS1358	1STQ008982A0000	1/1
Rear cubicle	P1	400	800	PCVS1408	1STQ008983A0000	1/1
Rear cubicle	P1	500	800	PCVS1508	1STQ008985A0000	1/1
Rear cubicle	P1	600	800	PCVS1608	1STQ008986A0000	1/1

• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Segregation

Order codes - Form 4b segregations



Segregation for horizontal circuit-breakers in position 2

Sheet metal corner piece to fix on separator PSVS.... With vertical Lexan panel at compartment height, horizontal shelf and side wall.

Description	Assembly position	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Rear cubicle	P2	200	400	PCVS2204	1STQ008995A0000	1/1
Rear cubicle	P2	250	400	PCVS2254	1STQ008996A0000	1/1
Rear cubicle	P2	300	400	PCVS2304	1STQ008997A0000	1/1
Rear cubicle	P2	350	400	PCVS2354	1STQ008998A0000	1/1
Rear cubicle	P2	400	400	PCVS2404	1STQ008999A0000	1/1
Rear cubicle	P2	500	400	PCVS2504	1STQ009001A0000	1/1
Rear cubicle	P2	600	400	PCVS2604	1STQ009002A0000	1/1
Rear cubicle	P2	200	600	PCVS2206	1STQ009003A0000	1/1
Rear cubicle	P2	250	600	PCVS2256	1STQ009004A0000	1/1
Rear cubicle	P2	300	600	PCVS2306	1STQ009005A0000	1/1
Rear cubicle	P2	350	600	PCVS2356	1STQ009006A0000	1/1
Rear cubicle	P2	400	600	PCVS2406	1STQ009007A0000	1/1
Rear cubicle	P2	500	600	PCVS2506	1STQ009009A0000	1/1
Rear cubicle	P2	600	600	PCVS2606	1STQ009010A0000	1/1
Rear cubicle	P2	200	800	PCVS2208	1STQ009011A0000	1/1
Rear cubicle	P2	250	800	PCVS2258	1STQ009012A0000	1/1
Rear cubicle	P2	300	800	PCVS2308	1STQ009013A0000	1/1
Rear cubicle	P2	350	800	PCVS2358	1STQ009014A0000	1/1
Rear cubicle	P2	400	800	PCVS2408	1STQ009015A0000	1/1
Rear cubicle	P2	500	800	PCVS2508	1STQ009017A0000	1/1
Rear cubicle	P2	600	800	PCVS2608	1STQ009018A0000	1/1

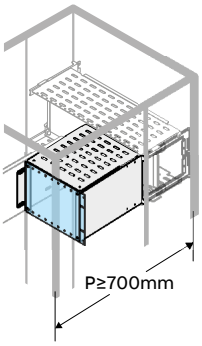
Posizion P2

The P2 segregations can replace the P0 and P1 segregation in order to obtain more useful space available inside the compartment.

• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Segregation

Order codes - Form 4b segregations



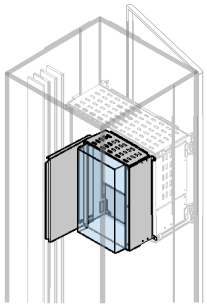
NEW Segregation for horizontal circuit-breakers in position 3

Sheet metal corner piece to fix on separator PSVS…. With vertical Lexan panel at compartment height, horizontal shelf and side wall.

Minimum installation depth 700mm

Description	Assembly position	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Rear cubicle	P3	200	400	PCVS3204	1STQ006898B0000	1/1
Rear cubicle	P3	250	400	PCVS3254	1STQ006899B0000	1/1
Rear cubicle	P3	300	400	PCVS3304	1STQ006900B0000	1/1
Rear cubicle	P3	350	400	PCVS3354	1STQ006901B0000	1/1
Rear cubicle	P3	400	400	PCVS3404	1STQ006902B0000	1/1
Rear cubicle	P3	500	400	PCVS3504	1STQ006903B0000	1/1
Rear cubicle	P3	600	400	PCVS3604	1STQ006904B0000	1/1
Rear cubicle	P3	200	600	PCVS3206	1STQ006905B0000	1/1
Rear cubicle	P3	250	600	PCVS3256	1STQ006906B0000	1/1
Rear cubicle	P3	300	600	PCVS3306	1STQ006907B0000	1/1
Rear cubicle	P3	350	600	PCVS3356	1STQ006908B0000	1/1
Rear cubicle	P3	400	600	PCVS3406	1STQ006909B0000	1/1
Rear cubicle	P3	500	600	PCVS3506	1STQ006910B0000	1/1
Rear cubicle	P3	600	600	PCVS3606	1STQ006911B0000	1/1
Rear cubicle	P3	200	800	PCVS3208	1STQ006912B0000	1/1
Rear cubicle	P3	250	800	PCVS3258	1STQ006913B0000	1/1
Rear cubicle	P3	300	800	PCVS3308	1STQ006914B0000	1/1
Rear cubicle	P3	350	800	PCVS3358	1STQ006915B0000	1/1
Rear cubicle	P3	400	800	PCVS3408	1STQ006916B0000	1/1
Rear cubicle	P3	500	800	PCVS3508	1STQ006917B0000	1/1
Rear cubicle	P3	600	800	PCVS3608	1STQ006918B0000	1/1

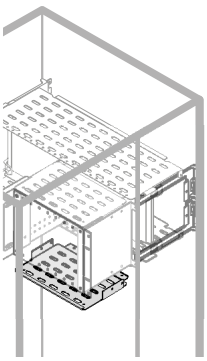
Position P3
The Segregations in position P3 can also replace the Segregations in positions P0, P1, P2 to obtain more space in the compartment. They can only be used in switchboards with 700 mm minimum depth.



Segregation for horizontal withdrawable Emax E1.2 and Tmax T7 circuit-breakers

The code includes corner piece, vertical Lexan panel, 2 horizontal shelves and side wall.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Rear cubicle	500	600	PCVS5060	1STQ009162A0000	1/1
Rear cubicle	500	800	PCVS5080	1STQ009163A0000	1/1



Horizontal segregation for cubicles

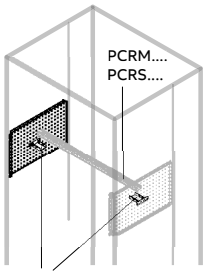
Horizontal shelf for cubicles for 4b segregation. Required for all depth changes in compartments in the same column. Order the length corresponding to the larger position between two consecutive compartments.

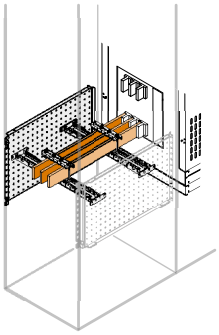
Description	Assembly position	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Horizontal shelf for cubicles	P1		400	PSHS1400	1STQ008923A0000	1/1
Horizontal shelf for cubicles	P1		600	PSHS1600	1STQ008924A0000	1/1
Horizontal shelf for cubicles	P1		800	PSHS1800	1STQ008925A0000	1/1
Horizontal shelf for cubicles	P2		400	PSHS2400	1STQ008927A0000	1/1
Horizontal shelf for cubicles	P2		600	PSHS2600	1STQ008928A0000	1/1
Horizontal shelf for cubicles	P2		800	PSHS2800	1STQ008929A0000	1/1
Horizontal shelf for cubicles	P3		400	PSHS3400	1STQ007507B0000	1/1
Horizontal shelf for cubicles	P3		600	PSHS3600	1STQ007509B0000	1/1
Horizontal shelf for cubicles	P3		800	PSHS3800	1STQ007510B0000	1/1

• Quick selection guides page **5**–12 • Technical details page **7**–1 • Overall dimensions page **8**–1

Segregation

Order codes - Form 4b segregations





Lateral connection module for terminal ditching

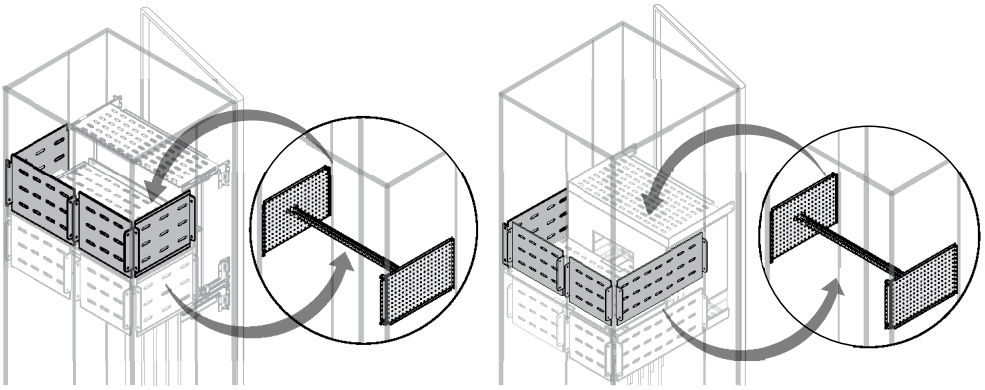
Lateral drilled module 25mm pitch for fixing the crosspieces with insulating supports in width from the intermediate upright up to the rear structural upright. In order to complete the terminals ditching it is necessary to order two lateral connection modules, which have to be fixed sideways.
The crosspieces PCRM .... or PCRS .... is fixed using the special fixing brackets for module connection PBMC0002. The crosspiece is to be chosen and ordered separately according to the width of the structure.

Description	Dimensions (mm) H	P	Type	Order code	Pkg/ No. pcs
Lateral connection module	175	500	PMCS1755	1STQ009200A0000	1/1
Lateral connection module	200	500	PMCS2050	1STQ009201A0000	1/1
Lateral connection module	225	500	PMCS2255	1STQ009202A0000	1/1
Lateral connection module	250	500	PMCS2550	1STQ009203A0000	1/1
Lateral connection module	300	500	PMCS3050	1STQ009204A0000	1/1
Lateral connection module	175	700	PMCS1757	1STQ009205A0000	1/1
Lateral connection module	200	700	PMCS2070	1STQ009206A0000	1/1
Lateral connection module	225	700	PMCS2257	1STQ009207A0000	1/1
Lateral connection module	250	700	PMCS2570	1STQ009208A0000	1/1
Lateral connection module	300	700	PMCS3070	1STQ009209A0000	1/1
Lateral connection module	175	900	PMCS1759	1STQ009210A0000	1/1
Lateral connection module	200	900	PMCS2090	1STQ009211A0000	1/1
Lateral connection module	225	900	PMCS2259	1STQ009212A0000	1/1
Lateral connection module	250	900	PMCS2590	1STQ009213A0000	1/1
Lateral connection module	300	900	PMCS3090	1STQ009214A0000	1/1
No.2 fixing brackets connection module			PBMC0002	1STQ009215A0000	1/1

PMCS... not compatible with busbar connection bracket PBMC0003 or with the plate for busbar systems PBBU0008.
For details consult Chapter 7 - Examples of connections from circuit-breaker towards omnibus busbars.

Segregations for vertical circuit-breakers

Form 4b of vertical circuit-breakers is obtained by duplicating the codes of vertical bottom segregations PRVS... and vertical side segregations PLVS..., closing the circuit-breaker compartments for the full height of the switchboard and installing an additional vertical side segregation on the output side.



As an alternative to the PLVS... vertical side segregations, in the case of main circuit-breakers, use the PMCS... side connection module for fixing terminal extensions and the relative fixing bshelfets PBMC0002 (*page* 4-36).

Chapter 6
Dedicated solution

CombiLine

6–2 **General information**

6–4 **Quick selection guide**

6–8 **Order codes**

InLine II

6–22 **General information**

6–24 **Quick selection guide**

6–26 **Order codes**

Capacitor Bank

6–38 **General information**

6–40 **Order codes**

6–44 **Declaration on thsted configuration and overall**

6–45 **Technical specification**

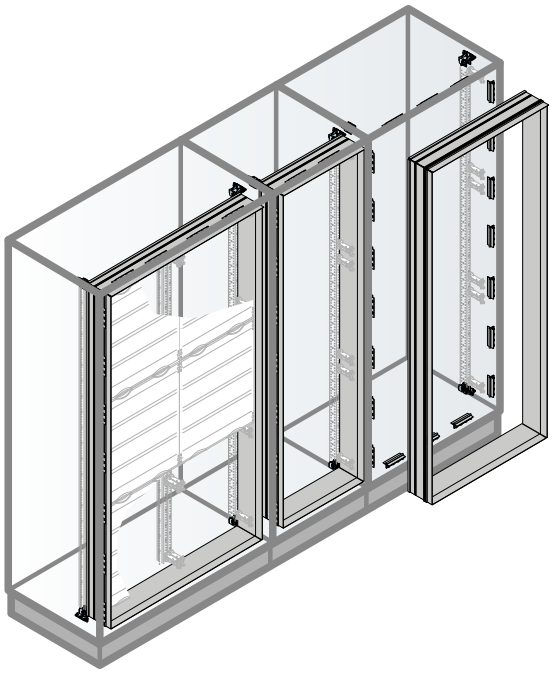
SmissLine

6–51 **Order code**

Dedicated solution
CombiLine-M - General information

Modular distribution panel system CombiLine-M

The right module for every type of application up to 850A.
The perfect expansion of the modular cabinet series is no problem with the CombiLine-M modular distribution panel system.

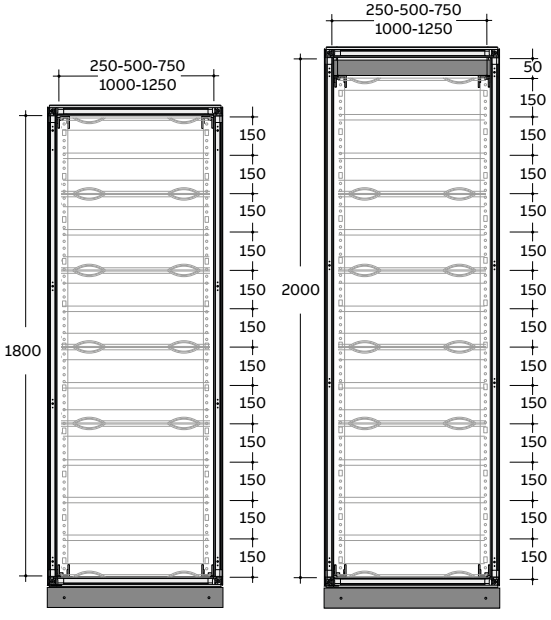


Fast, efficient and easy to combine - just three product features of this system that speak for themselves. The result: maximum options using a minimum of components.

Integration in System pro E power

CombiLine-M solutions can be fitted in five different columns widths and is compatible with any enclosure depth.

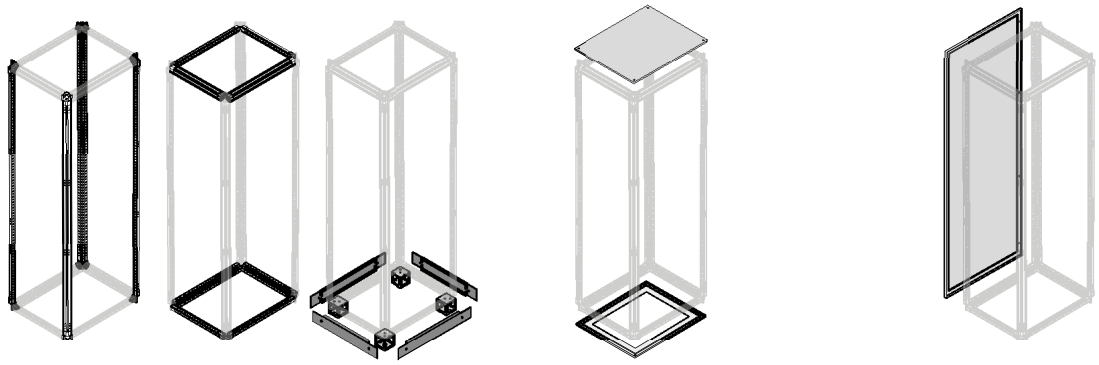
The fitting of CombiLine-M solutions is realized thanks to the use of a dedicated fixing set as well as a touchguard.
An additional cover is needed for the enclosures with functional height 2000mm.



GU-modules 12 **GU-modules 13**


ABB
ABB

Dedicated solution
CombiLine-M - Quick selection guide

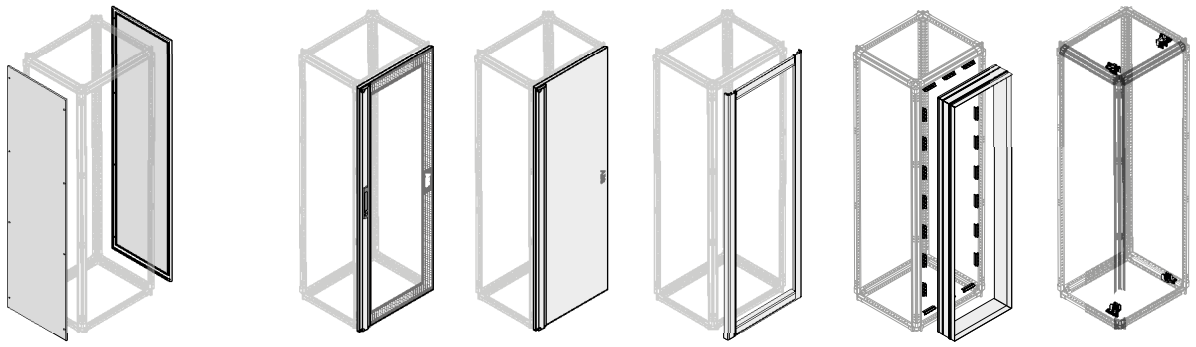


H=1800mm recommended installation solutions
GU-modules 12

Functional dimensions		Esternal dimensions *			FRAME						EXTERNAL COVERS					
					Uprights	Structure crosspieces		H=100mm plinth			Top/bottom panels				Front/rear/side panels	
						Galvanized sheet metal In≤4000A **		Galvanized sheet metal In≤4000A **			Top/Bottom			Bottom	Rear panel	
									Plinth flanges		Blind		Open[2]	Without plinth	Blind	
Height 1800mm		Height 2013mm			Galvanized sheet metal ** In≤4000A	Front/ Rear	Sides	Angle pieces	Front/ Rear	Sides	IP65	IP30[1] IP40[1]	IP65	IP40[3]	IP65	IP40[1]
W (mm)	D (mm)	W (mm)	D (mm)	PW-mod.												
250	200	350	316	1	PUPM1800	PCFM0250	PCFM0200	PPAM0100	PPFM1025	PPFM1020	PTBB2526	PTBB2520	PTBO2520	PBWP2520	PPEB1825	PPEB1827
	300		416				PCFM0300			PPFM1030	PTBB2536	PTBB2530	PTBO2530	PBWP2530		
	500		616				PCFM0500			PPFM1050	PTBB2556	PTBB2550	PTBO2550	PBWP2550		
	700		816				PCFM0700			PPFM1070	PTBB2576	PTBB2570	PTBO2570	PBWP2570		
	900		1016				PCFM0900			PPFM1090	PTBB2596	PTBB2590	PTBO2590	PBWP2590		
500	200	600	316	2	PUPM1800	PCFM0500	PCFM0200	PPAM0100	PPFM1050	PPFM1020	PTBB5026	PTBB5020	PTBO5020	PBWP5020	PPEB1856	PPEB1850
	300		416				PCFM0300			PPFM1030	PTBB3056	PTBB3050	PTBO3050	PBWP3050		
	500		616				PCFM0500			PPFM1050	PTBB5050	PTBB5057	PTBO5050	PBWP5050		
	700		816				PCFM0700			PPFM1070	PTBB5076	PTBB5070	PTBO5070	PBWP5070		
	900		1016				PCFM0900			PPFM1090	PTBB5096	PTBB5090	PTBO5090	PBWP5090		
750	200	850	316	3	PUPM1800	PCFM0750	PCFM0200	PPAM0100	PPFM1075	PPFM1020	PTBB7526	PTBB7520	PTBO7520	PBWP7520	PPEB1875	PPEB1877
	300		416				PCFM0300			PPFM1030	PTBB7536	PTBB7530	PTBO7530	PBWP7530		
	500		616				PCFM0500			PPFM1050	PTBB7556	PTBB7550	PTBO7550	PBWP7550		
	700		816				PCFM0700			PPFM1070	PTBB7576	PTBB7570	PTBO7570	PBWP7570		
	900		1016				PCFM0900			PPFM1090	PTBB7596	PTBB7590	PTBO7590	PBWP7590		
1000	200	1100	316	4	PUPM1800	PCFM1000	PCFM0200	PPAM0100	PPFM1010	PPFM1020	PTBB1026	PTBB1020			PPEB1816	PPEB1810
	300		416				PCFM0300			PPFM1030	PTBB1036	PTBB1030	PTBO1030	PBWP1030		
	500		616				PCFM0500			PPFM1050	PTBB1056	PTBB1050	PTBO1050	PBWP1050		
	700		816				PCFM0700			PPFM1070	PTBB1076	PTBB1070	PTBO1070	PBWP1070		
	900		1016				PCFM0900			PPFM1090	PTBB1096	PTBB1090	PTBO1090	PBWP1090		
1250	200	1350	316	5	PUPM1800	PCFM1250	PCFM0200	PPAM0100	PPFM1250	PPFM1020		PTBB1220				PPRB1820[4] PPLB1820[5]
	300		416				PCFM0300			PPFM1030		PTBB1230	PTBO1230	PBWP1230		
	500		616				PCFM0500			PPFM1050		PTBB1250	PTBO1250	PBWP1250		
	700		816				PCFM0700			PPFM1070		PTBB1270	PTBO1270	PBWP1270		
	900		1016				PCFM0900			PPFM1090		PTBB1290	PTBO1290	PBWP1290		

Consult page 2/12 and 7/2 for selection of the protection class.
* The external dimensions include the H=100mm plinth and the panels.
** Also available in stainless steel, see page 2/8.

[1] In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit, page 2/23.
[2] Use the dedicated incoming cable flanges to obtain protection class IP65.

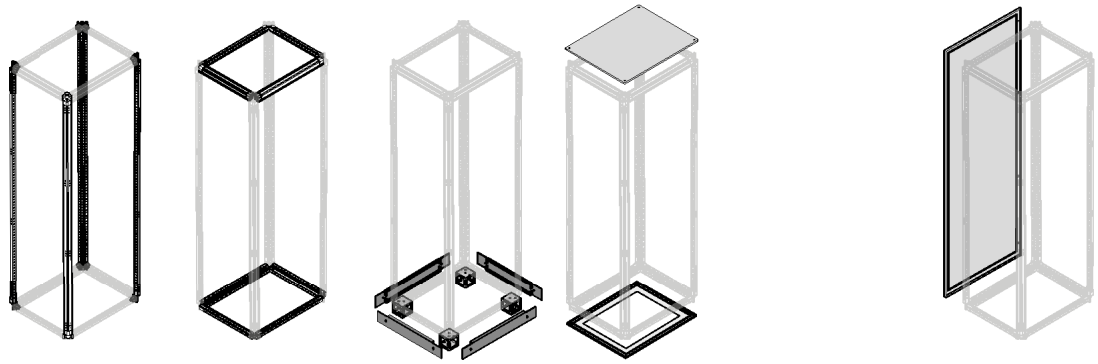


											COMBILINE			
									Finishing profiles IP30					
		Side panel			Glass door 12/24/36/48 mod. DIN		Blind door 12/24/36/48 mod. DIN							
	Vented	Blind		Vented										
	IP30[1]	IP65	IP40[1]	IP30[1]	IP65	IP30[1] IP40[1]	IP65	IP30[1] IP40[1]	Vertical profile	Horizontal profile	Touch-guard	Bracket	WR frame	Depth support[8]
		PPEB1826	PPEB1820				PDLB1826	PDLB1825	PPFV1800	PPFH0250	PCTG1825	PBCM0004	WR181	
		PPEB1836	PPEB1830	PPEA1830										
		PPEB1856	PPEB1850	PPEA1850										
		PPEB1876	PPEB1870	PPEA1870										
		PPEB1896	PPEB1890	PPEA1890										
		PPEB1826	PPEB1820		PDLG1856	PDLG1850	PDLB1856	PDLB1850	PPFV1800	PPFH0500	PCTG1850	PBCM0004	WR281	
		PPEB1836	PPEB1830	PPEA1830										
		PPEB1856	PPEB1850	PPEA1850										
		PPEB1876	PPEB1870	PPEA1870										
		PPEB1896	PPEB1890	PPEA1890										
	PPEA1875	PPEB1826	PPEB1820		PDLG1876	PDLG1870	PDLB1876	PDLB1875	PPFV1800	PPFH0750	PCTG1875	PBCM0004	WR381	
		PPEB1836	PPEB1830	PPEA1830										
		PPEB1856	PPEB1850	PPEA1850										
		PPEB1876	PPEB1870	PPEA1870										
		PPEB1896	PPEB1890	PPEA1890										
		PPEB1826	PPEB1820		PDLG1816	PDLG1810	PDLB1816	PDLB1810	PPFV1800	PPFH1000	PCTG1810	PBCM0004	WR281 WR381	PDFC0200
		PPEB1836	PPEB1830	PPEA1830										PDFC0300
		PPEB1856	PPEB1850	PPEA1850										PDFC0500
		PPEB1876	PPEB1870	PPEA1870										PDFC0700
		PPEB1896	PPEB1890	PPEA1890										PDFC0900
	PPRA1820[4] PPLA1820[5]	PPEB1826	PPEB1820			PDLB8120[6] PDLG8500[7]		PDLB8120[6] PDLB8500[7]	PPFV1800	PPFH1250	PCTG1812	PBCM0004	WR281 WR381	PDFC0200
		PPEB1836	PPEB1830	PPEA1830										PDFC0300
		PPEB1856	PPEB1850	PPEA1850										PDFC0500
		PPEB1876	PPEB1870	PPEA1870										PDFC0700
		PPEB1896	PPEB1890	PPEA1890										PDFC0900

[3] Bottom for switchboard without plinth complete with the dedicated set of brackets, which can be ordered separately.
[4] Right rear panel for structures W=1250mm.
[5] Left rear panel for structures W=1250mm.
[6] Door with overlapping for the double door version.
[7] Door with handle for the double door version.
[8] Order the RZ1P4 older for two frame.

Dedicated solution

CombiLine-M - Quick selection guide



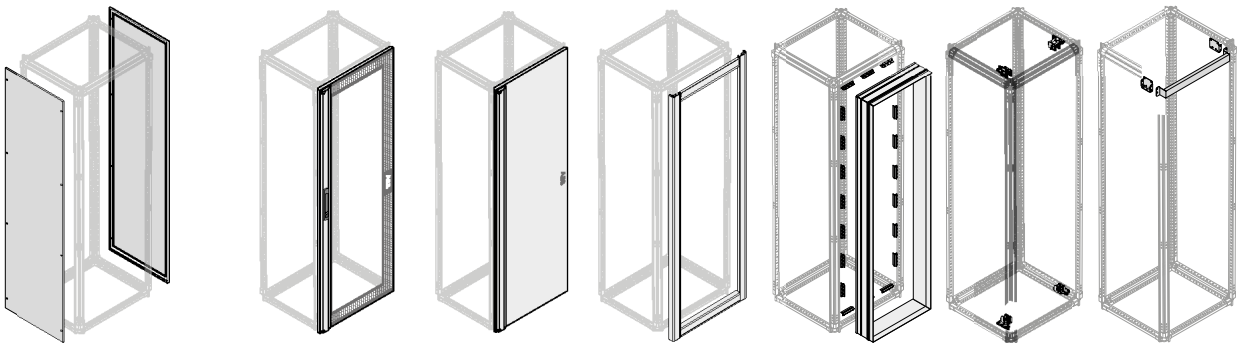
H=2000mm recommended installation solutions
GU-modules 13

Functional dimensions		Esternal dimensions *			FRAME						EXTERNAL COVERS					
					Uprights	Structure crosspieces		H=100mm plinth			Top/bottom panels				Front/rear/side panels	
						Galvanized sheet metal In≤4000A **		Galvanized sheet metal In≤4000A **			Top/Bottom			Bottom	Rear panel	
									Plinth flanges		Blind		Open[2]	Without plinth	Blind	
Height 1800mm		Height 2013mm			Galvanized sheet metal **							IP30[1]				
W (mm)	D (mm)	W (mm)	D (mm)	PW-mod.	In≤4000A	Front/ Rear	Sides	Angle pieces	Front/ Rear	Sides	IP65	IP40[1]	IP65	IP40[3]	IP65	IP40[1]
250	200	350	316	1	PUPM2000	PCFM0250	PCFM0200	PPAM0100	PPFM1025	PPFM1020	PTBB2526	PTBB2520	PTBO2520	PBWP2520	PPEB2025	PPEB2027
	300		416				PCFM0300			PPFM1030	PTBB2536	PTBB2530	PTBO2530	PBWP2530		
	500		616				PCFM0500			PPFM1050	PTBB2556	PTBB2550	PTBO2550	PBWP2550		
	700		816				PCFM0700			PPFM1070	PTBB2576	PTBB2570	PTBO2570	PBWP2570		
	900		1016				PCFM0900			PPFM1090	PTBB2596	PTBB2590	PTBO2590	PBWP2590		
500	200	600	316	2	PUPM2000	PCFM0250	PCFM0200	PPAM0100	PPFM1050	PPFM1020	PTBB5026	PTBB5020	PTBO5020	PBWP5020	PPEB2056	PPEB2050
	300		416				PCFM0300			PPFM1030	PTBB3056	PTBB3050	PTBO3050	PBWP3050		
	500		616				PCFM0500			PPFM1050	PTBB5050	PTBB5057	PTBO5050	PBWP5050		
	700		816				PCFM0700			PPFM1070	PTBB5076	PTBB5070	PTBO5070	PBWP5070		
	900		1016				PCFM0900			PPFM1090	PTBB5096	PTBB5090	PTBO5090	PBWP5090		
750	200	850	316	3	PUPM2000	PCFM0250	PCFM0200	PPAM0100	PPFM1075	PPFM1020	PTBB7526	PTBB7520	PTBO7520	PBWP7520	PPEB2075	PPEB2077
	300		416				PCFM0300			PPFM1030	PTBB7536	PTBB7530	PTBO7530	PBWP7530		
	500		616				PCFM0500			PPFM1050	PTBB7556	PTBB7550	PTBO7550	PBWP7550		
	700		816				PCFM0700			PPFM1070	PTBB7576	PTBB7570	PTBO7570	PBWP7570		
	900		1016				PCFM0900			PPFM1090	PTBB7596	PTBB7590	PTBO7590	PBWP7590		
1000	200	1100	316	4	PUPM2000	PCFM0250	PCFM0200	PPAM0100	PPFM1010	PPFM1020	PTBB1026	PTBB1020			PPEB2016	PPEB2010
	300		416				PCFM0300			PPFM1030	PTBB1036	PTBB1030	PTBO1030	PBWP1030		
	500		616				PCFM0500			PPFM1050	PTBB1056	PTBB1050	PTBO1050	PBWP1050		
	700		816				PCFM0700			PPFM1070	PTBB1076	PTBB1070	PTBO1070	PBWP1070		
	900		1016				PCFM0900			PPFM1090	PTBB1096	PTBB1090	PTBO1090	PBWP1090		
1250	200	1350	316	5	PUPM2000	PCFM0250	PCFM0200	PPAM0100	PPFM1250	PPFM1020		PTBB1220				PPRB2020[4] PPLB2020[5]
	300		416				PCFM0300			PPFM1030		PTBB1230	PTBO1230	PBWP1230		
	500		616				PCFM0500			PPFM1050		PTBB1250	PTBO1250	PBWP1250		
	700		816				PCFM0700			PPFM1070		PTBB1270	PTBO1270	PBWP1270		
	900		1016				PCFM0900			PPFM1090		PTBB1290	PTBO1290	PBWP1290		

Consult page 2/12 and 7/2 for selection of the protection class.
* The external dimensions include the H=100mm plinth and the panels.
** Also available in stainless steel, see page 2/8.

[1] In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit, page 2/23.
[2] Use the dedicated incoming cable flanges to obtain protection class IP65.

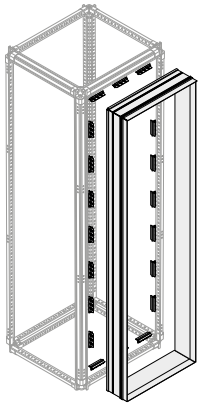
[1] Front terminals with rear exit, only Form 1. [2] Only Form 1.



											COMBILINE				
									Finishing profiles IP30						
		Side panel			Glass door 12/24/36/48 mod. DIN		Blind door 12/24/36/48 mod. DIN								
	Vented	Blind		Vented											
	IP30[1]	IP65	IP40[1]	IP30[1]	IP65	IP30[1] IP40[1]	IP65	IP30[1] IP40[1]	Vertical profile	Horizontal profile	Touch-guard	Bracket	Adaptor for height 2000mm	WR frame	Depth support[8]
		PPEB2026	PPEB2020				PDLB2026	PDLB2025	PPFV2000	PPFH0250	PCTG2025	PBCM0004	PCCM2025	WR191	
		PPEB2036	PPEB2030	PPEA2030											
		PPEB2056	PPEB2050	PPEA2050											
		PPEB2076	PPEB2070	PPEA2070											
		PPEB2096	PPEB2090	PPEA2090											
		PPEB2026	PPEB2020		PDLG2056	PDLG2050	PDLB2056	PDLB2050	PPFV2000	PPFH0500	PCTG2050	PBCM0004	PCCM2050	WR291	
		PPEB2036	PPEB2030	PPEA2030											
		PPEB2056	PPEB2050	PPEA2050											
		PPEB2076	PPEB2070	PPEA2070											
		PPEB2096	PPEB2090	PPEA2090											
	PPEA2075	PPEB2026	PPEB2020		PDLG2076	PDLG2070	PDLB2076	PDLB2075	PPFV2000	PPFH0750	PCTG2075	PBCM0004	PCCM2075	WR391	
		PPEB2036	PPEB2030	PPEA2030											
		PPEB2056	PPEB2050	PPEA2050											
		PPEB2076	PPEB2070	PPEA2070											
		PPEB2096	PPEB2090	PPEA2090											
		PPEB2026	PPEB2020		PDLG2016	PDLG2010	PDLB2016	PDLB2010	PPFV2000	PPFH1000	PCTG2010	PBCM0004	PCCM2010	WR291	PDFC0200
		PPEB2036	PPEB2030	PPEA2030										WR391	PDFC0300
		PPEB2056	PPEB2050	PPEA2050											PDFC0500
		PPEB2076	PPEB2070	PPEA2070											PDFC0700
		PPEB2096	PPEB2090	PPEA2090											PDFC0900
	PPRA2020[4] PPLA2020[5]	PPEB2026	PPEB2020			PDLB2120[6] PDLG2500[7]		PDLB2120[6] PDLB2500[7]	PPFV2000	PPFH1250	PCTG2012	PBCM0004	PCCM2012	WR291	PDFC0200
		PPEB2036	PPEB2030	PPEA2030										WR391	PDFC0300
		PPEB2056	PPEB2050	PPEA2050											PDFC0500
		PPEB2076	PPEB2070	PPEA2070											PDFC0700
		PPEB2096	PPEB2090	PPEA2090											PDFC0900

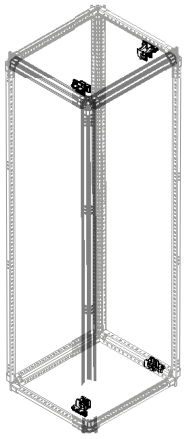
[3] Bottom for switchboard without plinth complete with the dedicated set of brackets, which can be ordered separately.
[4] Right rear panel for structures W=1250mm.
[5] Left rear panel for structures W=1250mm.
[6] Door with overlapping for the double door version.
[7] Door with handle for the double door version.
[8] Order the RZ1P4 older for two frame.

Dedicated solution
CombiLine-M - Order codes



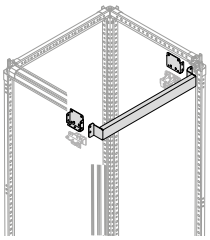
Touch guard profile - dedicated solution for CombiLine-M
Profile to guarantee IP30 touch protection with CombiLine-M modules installed.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Touch Guard profile	1800	250	PCTG1825	1STQ009368A0000	1/1
Touch Guard profile	1800	500	PCTG1850	1STQ009406A0000	1/1
Touch Guard profile	1800	750	PCTG1875	1STQ009385A0000	1/1
Touch Guard profile	1800	1000	PCTG1810	1STQ009928A0000	1/1
Touch Guard profile	1800	1250	PCTG1812	1STQ001319B0000	1/1
Touch Guard profile	2000	250	PCTG2025	1STQ009379A0000	1/1
Touch Guard profile	2000	500	PCTG2050	1STQ009417A0000	1/1
Touch Guard profile	2000	750	PCTG2075	1STQ009399A0000	1/1
Touch Guard profile	2000	1000	PCTG2010	1STQ009929A0000	1/1
Touch Guard profile	2000	1250	PCTG2012	1STQ001320B0000	1/1



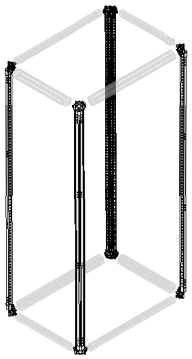
Fixing set - dedicated solution for CombiLine-M
Fixed set for the adaptation of standard WR frame on System pro E power structure.

Description	Type	Order code	Pkg/ No. pcs
CombiLine-M fixing set	PBCM0004	1STQ009354A0000	1/4
Depth support			
No.2 CombiLine crosspieces for frame D=200mm	PDFC0200	1STQ001929B0000	1/2
No.2 CombiLine crosspieces for frame D=300mm	PDFC0300	1STQ001930B0000	1/2
No.2 CombiLine crosspieces for frame D=500mm	PDFC0500	1STQ001931B0000	1/2
No.2 CombiLine crosspieces for frame D=700mm	PDFC0700	1STQ001932B0000	1/2
No.2 CombiLine crosspieces for frame D=900mm	PDFC0900	1STQ001933B0000	1/2
No.2 adaptor for Combiline H=2000mm	PBMC0001	1STQ001934B0000	1/2



Height adapters for 2000mm columns - dedicated solution for CombiLine-M
Adapters to use CombiLine-M modules in columns with functional height 2000mm. The components cover 50mm on the bottom and on the top.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
CombiLine-M adapter	2000	250	PCCM2025	1STQ009355A0000	1/2
CombiLine-M adapter	2000	500	PCCM2050	1STQ009356A0000	1/2
CombiLine-M adapter	2000	750	PCCM2075	1STQ009357A0000	1/2
CombiLine-M adapter	2000	1000	PCCM2010	1STQ009358A0000	1/2
CombiLine-M adapter	2000	1250	PCCM2012	1STQ001318B0000	1/2



Uprights – Galvanized sheet metal *
Upright formed by a closed profile made of galvanized sheet metal. The uprights include 8 already assembled 3-way joints, 8 already assembled axial screws and 16 loose axial screws. For applications with In ≤4000A.

Description	Dimensions (mm) H	Type	Order code	Pkg/ No. pcs
No.4 galvanized sheet metal uprights	1800	PUPM1800	1STQ007033A0000	1/4
No.4 galvanized sheet metal uprights	2000	PUPM2000	1STQ007034A0000	1/4

* Also available in stainless steel, see page 2/15.

Dedicated solution

CombiLine-M - Order codes



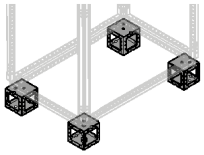
Structure crosspieces – Galvanized sheel metal *

Depth and width crosspieces for structures in galvanized sheet metal. For applications with In ≤4000A.

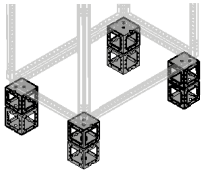
Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Width crosspieces					
No.4 width crosspieces galvanized sheet metal	250		PCFM0250	1STQ007036A0000	1/4
No.4 width crosspieces galvanized sheet metal	500		PCFM0500	1STQ007039A0000	1/4
No.4 width crosspieces galvanized sheet metal	750		PCFM0750	1STQ007041A0000	1/4
No.4 width crosspieces galvanized sheet metal	1000		PCFM1000	1STQ007043A0000	1/4
No.4 width crosspieces galvanized sheet metal	1250		PCFM1250	1STQ007044A0000	1/4
Depth crosspieces					
No.4 width crosspieces galvanized sheet metal		200	PCFM0200	1STQ007045A0000	1/4
No.4 width crosspieces galvanized sheet metal		300	PCFM0300	1STQ007037A0000	1/4
No.4 width crosspieces galvanized sheet metal		500	PCFM0500	1STQ007039A0000	1/4
No.4 width crosspieces galvanized sheet metal		700	PCFM0700	1STQ007046A0000	1/4
No.4 width crosspieces galvanized sheet metal		900	PCFM0900	1STQ007047A0000	1/4

* Also available in stainless steel, see page 2/15..

PPAM0100



PPAM0200

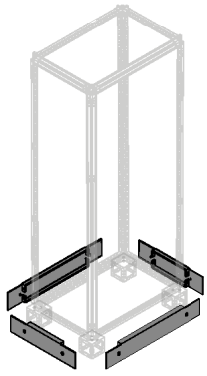


Universal angle pieces for plinths in galvanized sheet metal

Not pre-assembled to the structure. New angle piece with high mechanical strength. Can be fixed from the outside and from the inside of the structure even at a later date. Equipped with anti-rotation system and bottom that can be transported with a transpallet.

Description	Dimensions (mm) H	Type	Order code	Pkg/ No. pcs
No.4 plinth angle pieces	100	PPAM0100	1STQ007048A0000	1/4
No.8 plinth angle pieces H=100mm pre-assembled*	200	PPAM0200	1STQ007207A0000	1/4

*Order no. 2 pieces of H=100mm covering flange kits to complete the H=200mm plinth.



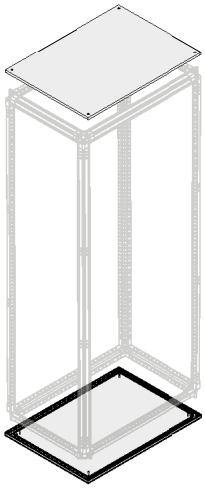
Plinth flanges

Side and front/rear plinth flanges H=100mm RAL 7012.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Front/rear plinth flanges					
No.2 plinth flanges	250		PPFM1025	1STQ007049A0000	1/2
No.2 plinth flanges	500		PPFM1050	1STQ007052A0000	1/2
No.2 plinth flanges	750		PPFM1075	1STQ007054A0000	1/2
No.2 plinth flanges	1000		PPFM1010	1STQ007056A0000	1/2
No.4 plinth flanges	1250		PPFM1250	1STQ007057A0000	1/4
Side plinth flanges					
No.2 plinth flanges		200	PPFM1020	1STQ007058A0000	1/2
No.2 plinth flanges		300	PPFM1030	1STQ007050A0000	1/2
No.2 plinth flanges		500	PPFM1050	1STQ007052A0000	1/2
No.2 plinth flanges		700	PPFM1070	1STQ007059A0000	1/2
No.2 plinth flanges		900	PPFM1090	1STQ007060A0000	1/2

Dedicated solution

CombiLine-M - Order codes



Blind Top/Bottom IP65 – Pickled sheet steel

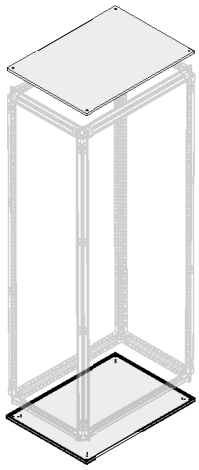
Pickled sheet steel with IP65 gasket. The article comprises one single component that can be used as either a top or bottom. In order to purchase both the top and the bottom, please order two quantities of the same code or two different top/bottom codes according to the desired design of the structure. The code includes four M12x20 screws.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
IP65 blind top/bottom	250	200	PTBB2526	1STQ001270B0000	1/1
IP65 blind top/bottom	250	300	PTBB2536	1STQ007071A0000	1/1
IP65 blind top/bottom	250	500	PTBB2556	1STQ007072A0000	1/1
IP65 blind top/bottom	250	700	PTBB2576	1STQ007073A0000	1/1
IP65 blind top/bottom	250	900	PTBB2596	1STQ001271B0000	1/1
IP65 blind top/bottom	500	200	PTBB5026	1STQ001284B0000	1/1
IP65 blind top/bottom	500	300	PTBB3056	1STQ007076A0000	1/1
IP65 blind top/bottom	500	500	PTBB5050	1STQ009179A0000	1/1
IP65 blind top/bottom	500	700	PTBB5076	1STQ007085A0000	1/1
IP65 blind top/bottom	500	900	PTBB5096	1STQ001286B0000	1/1
IP65 blind top/bottom	750	200	PTBB7526	1STQ001303B0000	1/1
IP65 blind top/bottom	750	300	PTBB7536	1STQ007091A0000	1/1
IP65 blind top/bottom	750	500	PTBB7556	1STQ007092A0000	1/1
IP65 blind top/bottom	750	700	PTBB7576	1STQ007093A0000	1/1
IP65 blind top/bottom	750	900	PTBB7596	1STQ001304B0000	1/1
Blind Top/Bottom IP65	1000	200	PTBB1026	1STQ009178A0000	1/1
Blind Top/Bottom IP65	1000	300	PTBB1036	1STQ007099A0000	1/1
Blind Top/Bottom IP65	1000	500	PTBB1056	1STQ007100A0000	1/1
Blind Top/Bottom IP65	1000	700	PTBB1076	1STQ007101A0000	1/1
Blind Top/Bottom IP65	1000	900	PTBB1096	1STQ007102A0000	1/1

• Quick selection guides page **6**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

CombiLine-M - Order codes



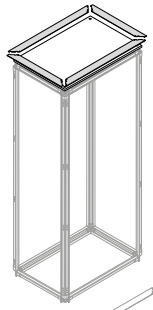
Blind Top/Bottom IP30, IP40 – Pickled sheet steel

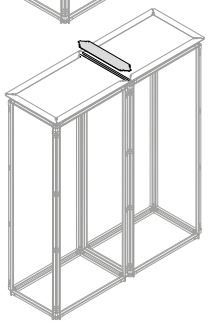
Pickled sheet steel without gasket. In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit, page 6-12. The article comprises one single component that can be used as either a top or bottom. In order to purchase both the top and the bottom, please order two quantities of the same code or two different top/bottom codes according to the desired design of the structure. The code includes four M12x20 screws.

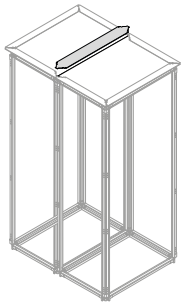
Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Blind Top/Bottom IP30, 40	250	200	PTBB2520	1STQ001267B0000	1/1
Blind Top/Bottom IP30, 40	250	300	PTBB2530	1STQ001268B0000	1/1
Blind Top/Bottom IP30, 40	250	500	PTBB2550	1STQ009370A0000	1/1
Blind Top/Bottom IP30, 40	250	700	PTBB2570	1STQ009423A0000	1/1
Blind Top/Bottom IP30, 40	250	900	PTBB2590	1STQ001269B0000	1/1
Blind Top/Bottom IP30, 40	500	200	PTBB5020	1STQ001281B0000	1/1
Blind Top/Bottom IP30, 40	500	300	PTBB3050	1STQ007109A0000	1/1
Blind Top/Bottom IP30, 40	500	500	PTBB5057	1STQ009407A0000	1/1
Blind Top/Bottom IP30, 40	500	700	PTBB5070	1STQ009435A0000	1/1
Blind Top/Bottom IP30, 40	500	900	PTBB5090	1STQ001283B0000	1/1
Blind Top/Bottom IP30, 40	750	200	PTBB7520	1STQ001300B0000	1/1
Blind Top/Bottom IP30, 40	750	300	PTBB7530	1STQ001301B0000	1/1
Blind Top/Bottom IP30, 40	750	500	PTBB7550	1STQ009387A0000	1/1
Blind Top/Bottom IP30, 40	750	700	PTBB7570	1STQ009429A0000	1/1
Blind Top/Bottom IP30, 40	750	900	PTBB7590	1STQ001302B0000	1/1
Blind Top/Bottom IP30, 40	1000	200	PTBB1020	1STQ009152A0000	1/1
Blind Top/Bottom IP30, 40	1000	300	PTBB1030	1STQ007127A0000	1/1
Blind Top/Bottom IP30, 40	1000	500	PTBB1050	1STQ007128A0000	1/1
Blind Top/Bottom IP30, 40	1000	700	PTBB1070	1STQ007129A0000	1/1
Blind Top/Bottom IP30, 40	1000	900	PTBB1090	1STQ007130A0000	1/1
Blind Top/Bottom IP30, 40	1250	200	PTBB1220	1STQ009153A0000	1/1
Blind Top/Bottom IP30, 40	1250	300	PTBB1230	1STQ001315B0000	1/1
Blind Top/Bottom IP30, 40	1250	500	PTBB1250	1STQ001316B0000	1/1
Blind Top/Bottom IP30, 40	1250	700	PTBB1270	1STQ001317B0000	1/1
Blind Top/Bottom IP30, 40	1250	900	PTBB1290	1STQ007131A0000	1/1

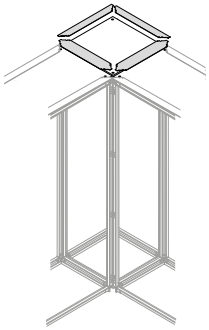
Dedicated solution

CombiLine-M - Order codes









Top sealing kit IP31/IP41

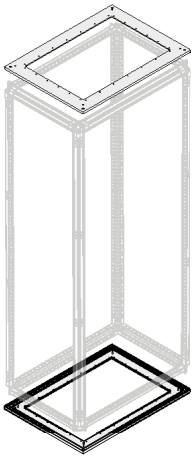
Profiles for IP31/IP41 for top.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
N.2 roof profiles for single column		200	PKST0200	1STQ001905B0000	1/2
N.2 roof profiles for single column		300	PKST0301	1STQ001935B0000	1/1
N.2 roof profiles for single column		500	PKST0501	1STQ001936B0000	1/1
N.2 roof profiles for single column		700	PKST0700	1STQ001911B0000	1/2
N.2 roof profiles for single column		900	PKST0900	1STQ001914B0000	1/2
N.2 roof profiles for single column	250		PKST0250	1STQ001906B0000	1/2
N.2 roof profiles for single column	300		PKST0300	1STQ001907B0000	1/2
N.2 roof profiles for single column	400		PKST0400	1STQ001908B0000	1/2
N.2 roof profiles for single column	500		PKST0500	1STQ001909B0000	1/2
N.2 roof profiles for single column	600		PKST0600	1STQ001910B0000	1/2
N.2 roof profiles for single column	750		PKST0750	1STQ001912B0000	1/2
N.2 roof profiles for single column	800		PKST0800	1STQ001913B0000	1/2
N.2 roof profiles for single column	1000		PKST1000	1STQ001915B0000	1/2
N.2 roof profiles for single column	1250		PKST1250	1STQ001916B0000	1/2
N.1 roof profile for side by side column		200	PKDT0200	1STQ001917B0000	1/1
N.1 roof profile for side by side column		300	PKDT0301	1STQ001937B0000	1/1
N.1 roof profile for side by side column		700	PKDT0700	1STQ001923B0000	1/1
N.1 roof profile for side by side column		900	PKDT0900	1STQ001926B0000	1/1
N.1 roof profile for side by side column		500	PKDT0501	1STQ001938B0000	1/1
N.1 roof profile for back to back column	250		PKDT0250	1STQ001918B0000	1/1
N.1 roof profile for back to back column	300		PKDT0300	1STQ001919B0000	1/1
N.1 roof profile for back to back column	400		PKDT0400	1STQ001920B0000	1/1
N.1 roof profile for back to back column	500		PKDT0500	1STQ001921B0000	1/1
N.1 roof profile for back to back column	600		PKDT0600	1STQ001922B0000	1/1
N.1 roof profile for back to back column	750		PKDT0750	1STQ001924B0000	1/1
N.1 roof profile for back to back column	800		PKDT0800	1STQ001925B0000	1/1
N.1 roof profile for back to back column	1000		PKDT1000	1STQ001927B0000	1/1
N.1 roof profile for back to back column	1250		PKDT1250	1STQ001928B0000	1/1
Roof profiles for corner structure	500	500	PKAT5050	1STQ001939B0000	1/4
Roof profiles for corner structure	700	700	PKAT7070	1STQ001941B0000	1/4
Roof profiles for corner structure	900	900	PKAT9090	1STQ001943B0000	1/4

• Quick selection guides page **6**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

CombiLine-M - Order codes



Open Top/Bottom

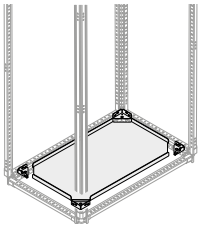
Pickled sheet steel with holes. The code comprises one single component that can be used as either a top or bottom. In order to purchase both the top and the bottom, please order two quantities of the same code or two different top/bottom codes according to the desired design of the structure.
In order to reach IP65 protection degree, use the dedicated fixed cable incoming flanges PFCF….; in order to reach IP40 protection degree, use the dedicated swinging cable incoming flanges PFCS…. at page 4/13-4/14. The use of the single open top/bottom without flanges does not guarantee any degree of protection IP. The open top/bottom, associated with sliding flanges, is incompatible with crosspieces assembled inside the cable compartment.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Open Top/Bottom	250	200	PTBO2520	1STQ001272B0000	1/1
Open Top/Bottom	250	300	PTBO2530	1STQ007132A0000	1/1
Open Top/Bottom	250	500	PTBO2550	1STQ007133A0000	1/1
Open Top/Bottom	250	700	PTBO2570	1STQ007134A0000	1/1
Open Top/Bottom	250	900	PTBO2590	1STQ001273B0000	1/1
Open Top/Bottom	500	200	PTBO5020	1STQ001287B0000	1/1
Open Top/Bottom	500	300	PTBO3050	1STQ007137A0000	1/1
Open Top/Bottom	500	500	PTBO5050	1STQ007145A0000	1/1
Open Top/Bottom	500	700	PTBO5070	1STQ007146A0000	1/1
Open Top/Bottom	500	900	PTBO5090	1STQ001289B0000	1/1
Open Top/Bottom	750	200	PTBO7520	1STQ001305B0000	1/1
Open Top/Bottom	750	300	PTBO7530	1STQ007152A0000	1/1
Open Top/Bottom	750	500	PTBO7550	1STQ007153A0000	1/1
Open Top/Bottom	750	700	PTBO7570	1STQ007154A0000	1/1
Open Top/Bottom	750	900	PTBO7590	1STQ001306B0000	1/1
Open Top/Bottom	1000	300	PTBO1030	1STQ007160A0000	1/1
Open Top/Bottom	1000	500	PTBO1050	1STQ007161A0000	1/1
Open Top/Bottom	1000	700	PTBO1070	1STQ007162A0000	1/1
Open Top/Bottom	1000	900	PTBO1090	1STQ007163A0000	1/1
Open Top/Bottom	1250	300	PTBO1230	1STQ007164A0000	1/1
Open Top/Bottom	1250	500	PTBO1250	1STQ007165A0000	1/1
Open Top/Bottom	1250	700	PTBO1270	1STQ007166A0000	1/1
Open Top/Bottom	1250	900	PTBO1290	1STQ007167A0000	1/1

• Quick selection guides page **6**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

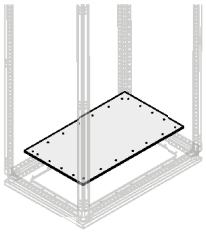
CombiLine-M - Order codes



Bottom without plinth IP40

Internal galvanized steel bottom with special brackets kit included (special brackets kit available also as spare part with the code PBRB0004). In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKPT..., page 6-12.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Bottom without plinth IP40	250	200	PBWP2520	1STQ001279B0000	1/1
Bottom without plinth IP40	250	300	PBWP2530	1STQ007168A0000	1/1
Bottom without plinth IP40	250	500	PBWP2550	1STQ007169A0000	1/1
Bottom without plinth IP40	250	700	PBWP2570	1STQ007170A0000	1/1
Bottom without plinth IP40	250	900	PBWP2590	1STQ001280B0000	1/1
Bottom without plinth IP40	500	200	PBWP5020	1STQ001297B0000	1/1
Bottom without plinth IP40	500	300	PBWP3050	1STQ007173A0000	1/1
Bottom without plinth IP40	500	500	PBWP5050	1STQ007181A0000	1/1
Bottom without plinth IP40	500	700	PBWP5070	1STQ007182A0000	1/1
Bottom without plinth IP40	500	900	PBWP5090	1STQ001299B0000	1/1
Bottom without plinth IP40	750	200	PBWP7520	1STQ001313B0000	1/1
Bottom without plinth IP40	750	300	PBWP7530	1STQ007188A0000	1/1
Bottom without plinth IP40	750	500	PBWP7550	1STQ007189A0000	1/1
Bottom without plinth IP40	750	700	PBWP7570	1STQ007190A0000	1/1
Bottom without plinth IP40	750	900	PBWP7590	1STQ001314B0000	1/1
Bottom without plinth IP40	1000	300	PBWP1030	1STQ007196A0000	1/1
Bottom without plinth IP40	1000	500	PBWP1050	1STQ007197A0000	1/1
Bottom without plinth IP40	1000	700	PBWP1070	1STQ007198A0000	1/1
Bottom without plinth IP40	1000	900	PBWP1090	1STQ007199A0000	1/1
Bottom without plinth IP40	1250	300	PBWP1230	1STQ007200A0000	1/1
Bottom without plinth IP40	1250	500	PBWP1250	1STQ007201A0000	1/1
Bottom without plinth IP40	1250	700	PBWP1270	1STQ007202A0000	1/1
Bottom without plinth IP40	1250	900	PBWP1290	1STQ007203A0000	1/1



Fixed incoming cable flange

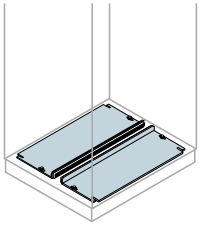
Fixed incoming cable flange in sheet metal to use in conjunction with the open bottom to guarantee IP65 protection class. With internal cable compartment crosspieces it is necessary to mount the fixed flange first.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Fixed incoming cable flange	250	200	PFCF2520	1STQ001274B0000	1/1
Fixed incoming cable flange	250	300	PFCF2530	1STQ007655A0000	1/1
Fixed incoming cable flange	250	500	PFCF2550	1STQ007656A0000	1/1
Fixed incoming cable flange	250	700	PFCF2570	1STQ007657A0000	1/1
Fixed incoming cable flange	250	900	PFCF2590	1STQ001275B0000	1/1
Fixed incoming cable flange	500	200	PFCF5020	1STQ001290B0000	1/1
Fixed incoming cable flange	500	300	PFCF3050	1STQ007660A0000	1/1
Fixed incoming cable flange	500	500	PFCF5050	1STQ007668A0000	1/1
Fixed incoming cable flange	500	700	PFCF5070	1STQ007669A0000	1/1
Fixed incoming cable flange	500	900	PFCF5090	1STQ001292B0000	1/1
Fixed incoming cable flange	750	200	PFCF7520	1STQ001307B0000	1/1
Fixed incoming cable flange	750	300	PFCF7530	1STQ007675A0000	1/1
Fixed incoming cable flange	750	500	PFCF7550	1STQ007676A0000	1/1
Fixed incoming cable flange	750	700	PFCF7570	1STQ007677A0000	1/1
Fixed incoming cable flange	750	900	PFCF7590	1STQ001308B0000	1/1
Fixed incoming cable flange	1000	300	PFCF1030	1STQ007683A0000	1/1
Fixed incoming cable flange	1000	500	PFCF1050	1STQ007684A0000	1/1
Fixed incoming cable flange	1000	700	PFCF1070	1STQ007685A0000	1/1
Fixed incoming cable flange	1000	900	PFCF1090	1STQ007686A0000	1/1
Fixed incoming cable flange	1250	900	2xPFCF6090	1STQ007674A0000	1/1

• Quick selection guides page **6**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

CombiLine-M - Order codes



Sliding incoming cable flanges in sheet metal

Sliding incoming cable flanges in sheet metal to use in conjunction with the open bottom to guarantee IP40 protection class. It is not possible to assemble the sliding flanges in structures with internal cable compartment.

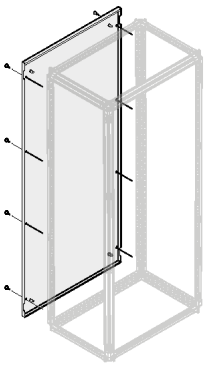
Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
No.2 sliding flanges	500	500	PFCS5050	1STQ007702A0000	1/2
No.2 sliding flanges	500	700	PFCS5070	1STQ007703A0000	1/2
No.2 sliding flanges	500	900	PFCS5090	1STQ001293B0000	1/2
No.2 sliding flanges	750	500	PFCS7550	1STQ007709A0000	1/2
No.2 sliding flanges	750	700	PFCS7570	1STQ007710A0000	1/2
No.2 sliding flanges	750	900	PFCS7590	1STQ001309B0000	1/2
No.2 sliding flanges	1000	500	PFCS1050	1STQ007716A0000	1/2
No.2 sliding flanges	1000	700	PFCS1070	1STQ007717A0000	1/2
No.2 sliding flanges	1000	900	PFCS1090	1STQ007718A0000	1/2
No.2 sliding flanges	1250	900	2xPFCS6090	1STQ007707A0000	1/2



External blind rear panel IP65

Pickled sheet steel with gasket and plugs IP65.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Blind rear panel IP65	1800	250	PPEB1825	1STQ007576A0000	1/1
Blind rear panel IP65	1800	500	PPEB1856	1STQ007579A0000	1/1
Blind rear panel IP65	1800	750	PPEB1875	1STQ007582A0000	1/1
Blind rear panel IP65	1800	1000	PPEB1816	1STQ007585A0000	1/1
Blind rear panel IP65	2000	250	PPEB2025	1STQ009380A0000	1/1
Blind rear panel IP65	2000	500	PPEB2056	1STQ008106A0000	1/1
Blind rear panel IP65	2000	750	PPEB2075	1STQ009400A0000	1/1
Blind rear panel IP65	2000	1000	PPEB2016	1STQ007596A0000	1/1



External blind rear panel IP40

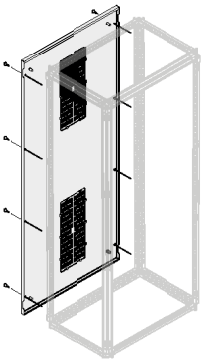
Pickled sheet steel without gasket. In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKPT..., page 6-12.

Description		Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Blind rear panel IP40		1800	250	PPEB1827	1STQ009375A0000	1/1
Blind rear panel IP40		1800	500	PPEB1850	1STQ007610A0000	1/1
Blind rear panel IP40		1800	750	PPEB1877	1STQ009393A0000	1/1
Blind rear panel IP40		1800	1000	PPEB1810	1STQ007615A0000	1/1
Blind rear panel IP40	right	1800	1250	PPRB1820	1STQ007616A0000	1/1
	left	1800	1250	PPLB1820	1STQ007617A0000	1/1
Blind rear panel IP40		2000	250	PPEB2027	1STQ009381A0000	1/1
Blind rear panel IP40		2000	500	PPEB2050	1STQ007621A0000	1/1
Blind rear panel IP40		2000	750	PPEB2077	1STQ009401A0000	1/1
Blind rear panel IP40		2000	1000	PPEB2010	1STQ007626A0000	1/1
Blind rear panel IP40	right	2000	1250	PPRB2020	1STQ007627A0000	1/1
	left	2000	1250	PPLB2020	1STQ007628A0000	1/1

• Quick selection guides page **6**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

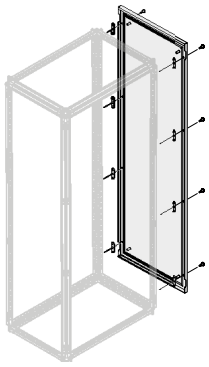
CombiLine-M - Order codes



External vented rear panel IP30

In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKPT...., page 6-12.

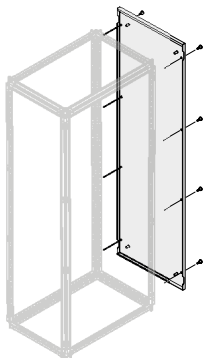
Description		No. Vented grates	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Vented rear panel IP30		2	1800	750	PPEA1875	1STQ007635A0000	1/1
Vented rear panel IP30/31 with gasket	right	6	1800	1250	PPRA1820	1STQ007639A0000	1/1
	left	6	1800	1250	PPLA1820	1STQ007640A0000	1/1
Vented rear panel IP30		2	2000	750	PPEA2075	1STQ009919A0000	1/1
Vented rear panel IP30 with gasket	right	4	2000	1250	PPRA2020	1STQ007649A0000	1/1
	left	4	2000	1250	PPLA2020	1STQ007650A0000	1/1



External blind side panel IP65

Pickled sheet steel with gasket and plugs IP65. The code refers to one single side panel.

Description	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Blind side panel IP65	1800	200	PPEB1826	1STQ007575A0000	1/1
Blind side panel IP65	1800	300	PPEB1836	1STQ007577A0000	1/1
Blind side panel IP65	1800	500	PPEB1856	1STQ007579A0000	1/1
Blind side panel IP65	1800	700	PPEB1876	1STQ007581A0000	1/1
Blind side panel IP65	1800	900	PPEB1896	1STQ007584A0000	1/1
Blind side panel IP65	2000	200	PPEB2026	1STQ007588A0000	1/1
Blind side panel IP65	2000	300	PPEB2036	1STQ007589A0000	1/1
Blind side panel IP65	2000	500	PPEB2056	1STQ008106A0000	1/1
Blind side panel IP65	2000	700	PPEB2076	1STQ008107A0000	1/1
Blind side panel IP65	2000	900	PPEB2096	1STQ008108A0000	1/1



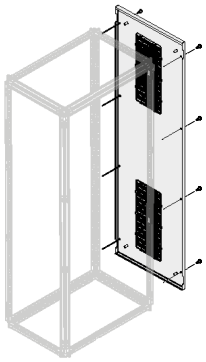
External blind side panel IP40

Pickled sheet steel with gasket. The code refers to one single side panel. In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKPT...., page 6-12.

Description	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Blind side panel IP40	1800	200	PPEB1820	1STQ007607A0000	1/1
Blind side panel IP40	1800	300	PPEB1830	1STQ007608A0000	1/1
Blind side panel IP40	1800	500	PPEB1850	1STQ007610A0000	1/1
Blind side panel IP40	1800	700	PPEB1870	1STQ007612A0000	1/1
Blind side panel IP40	1800	900	PPEB1890	1STQ007614A0000	1/1
Blind side panel IP40	2000	200	PPEB2020	1STQ007618A0000	1/1
Blind side panel IP40	2000	300	PPEB2030	1STQ007619A0000	1/1
Blind side panel IP40	2000	500	PPEB2050	1STQ007621A0000	1/1
Blind side panel IP40	2000	700	PPEB2070	1STQ007623A0000	1/1
Blind side panel IP40	2000	900	PPEB2090	1STQ007625A0000	1/1

Dedicated solution

CombiLine-M - Order codes



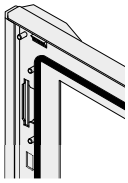
External vented rear panel IP30

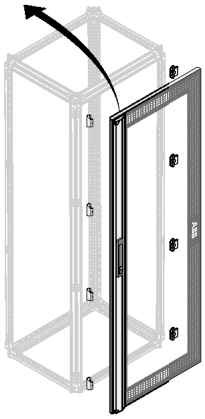
In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKPT...., page 6-12.

Description	No. Vented grates	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Vented side panel IP30	2	1800	300	PPEA1830	1STQ007630A0000	1/1
Vented side panel IP30	2	1800	500	PPEA1850	1STQ007632A0000	1/1
Vented side panel IP30	2	1800	700	PPEA1870	1STQ007634A0000	1/1
Vented side panel IP30	4	1800	900	PPEA1890	1STQ007637A0000	1/1
Vented side panel IP30	2	2000	300	PPEA2030	1STQ007641A0000	1/1
Vented side panel IP30	2	2000	500	PPEA2050	1STQ007643A0000	1/1
Vented side panel IP30	2	2000	700	PPEA2070	1STQ007645A0000	1/1
Vented side panel IP30	4	2000	900	PPEA2090	1STQ007647A0000	1/1

Dedicated solution

CombiLine-M - Order codes

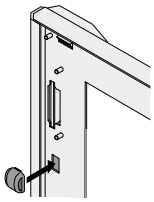


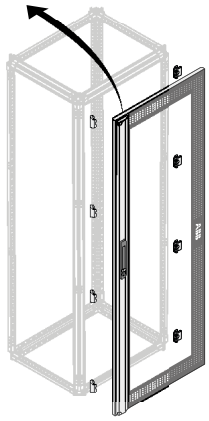


Glass door IP65

Pickled sheet steel with gasket. Opens through 135° (single column). Complete with 4 hinges to be screwed onto the uprights, 4 door closing brackets with cover and handle. Handle and hinges provided (not pre-assembled for complete reversibility). Doors can be mounted both on the front and on the back of the enclosures.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Glass door IP65	1800	500	PDLG1856	1STQ009414A0000	1/1
Glass door IP65	1800	750	PDLG1876	1STQ009396A0000	1/1
Glass door IP65	1800	1000	PDLG1816	1STQ007311A0000	1/1
Glass door IP65	2000	500	PDLG2056	1STQ009420A0000	1/1
Glass door IP65	2000	750	PDLG2066	1STQ007316A0000	1/1
Glass door IP65	2000	1000	PDLG2076	1STQ009404A0000	1/1





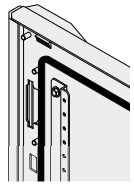
Glass door without gasket

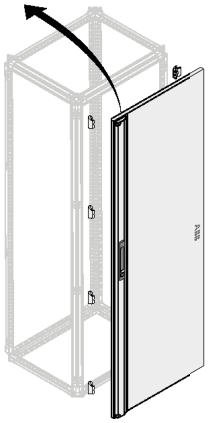
Suitable for IP30 and IP40 configuration. Pickled sheet steel without gasket and 4 rubber overlapping plugs. Opens through 135° (single column). Complete with 4 hinges to be screwed onto the uprights, 4 door closing brackets with cover and handle. Handle and hinges provided (not pre-assembled for complete reversibility). In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKPT...., page 6-12. Doors can be mounted both on the front and on the back of the enclosures.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Glass door IP40	1800	500	PDLG1850	1STQ009415A0000	1/1
Glass door IP40	1800	750	PDLG1870	1STQ009397A0000	1/1
Glass door IP40	1800	1000	PDLG1810	1STQ007333A0000	1/1
Glass door IP40	2000	500	PDLG2050	1STQ009421A0000	1/1
Glass door IP40	2000	750	PDLG2070	1STQ009405A0000	1/1
Glass door IP40	2000	1000	PDLG2010	1STQ007344A0000	1/1

Dedicated solution

CombiLine-M - Order codes

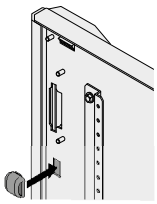


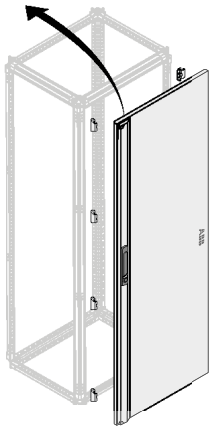


Blind door IP65

Pickled sheet steel with gasket. Opens through 135° (single column). Complete with 4 hinges to be screwed onto the uprights, 4 door closing brackets with cover and handle. Handle and hinges provided (not pre-assembled for complete reversibility). Doors can be mounted both on the front and on the back of the enclosures. Reinforcing tubes for W>400mm

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Blind door IP65	1800	250	PDLB1826	1STQ009376A0000	1/1
Blind door IP65	1800	500	PDLB1856	1STQ009412A0000	1/1
Blind door IP65	1800	750	PDLB1876	1STQ009427A0000	1/1
Blind door IP65	1800	1000	PDLB1816	1STQ007351A0000	1/1
Blind door IP65	2000	250	PDLB2026	1STQ009382A0000	1/1
Blind door IP65	2000	500	PDLB2056	1STQ009418A0000	1/1
Blind door IP65	2000	750	PDLB2076	1STQ009402A0000	1/1
Blind door IP65	2000	1000	PDLB2016	1STQ007358A0000	1/1





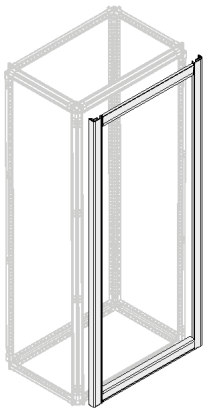
Blind door IP40 without gasket

Suitable for IP30 and IP40 configuration. Pickled sheet steel without gasket and 4 rubber overlapping plugs. Opens through 135° (single column). Complete with 4 hinges to be screwed onto the uprights, 4 door closing brackets with cover and handle. Handle and hinges provided (not pre-assembled for complete reversibility). In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKPT..., page 6-12. Doors can be mounted both on the front and on the back of the enclosures. Reinforcing tubes for W>400mm

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Blind door IP40/IP41	1800	250	PDLB1825	1STQ009377A0000	1/1
Blind door IP40/IP41	1800	500	PDLB1850	1STQ009413A0000	1/1
Blind door IP40/IP41	1800	750	PDLB1875	1STQ009395A0000	1/1
Blind door IP40/IP41	1800	1000	PDLB1810	1STQ007365A0000	1/1
Blind door IP40/IP41	2000	250	PDLB2025	1STQ009383A0000	1/1
Blind door IP40/IP41	2000	500	PDLB2050	1STQ009419A0000	1/1
Blind door IP40/IP41	2000	750	PDLB2075	1STQ009403A0000	1/1
Blind door IP40/IP41	2000	1000	PDLB2010	1STQ007372A0000	1/1

Dedicated solution

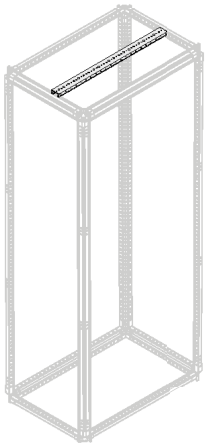
CombiLine-M - Order codes



Horizontal/vertical front closing profiles IP30

Profiles for IP30/IP31 pickled sheet painted RAL 7035. In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKPT...., page 6-12.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Finishing profiles vertical structure and external cable compartment					
No.2 vertical profiles IP30	1800		PPFV1800	1STQ008059A0000	1/2
No.2 vertical profiles IP30	2000		PPFV2000	1STQ008060A0000	1/2
Finishing profile vertical internal cable compartment					
No.1 profile vertical IP30	1800		PPCV1800	1STQ009294A0000	1/1
No.1 profile vertical IP30	2000		PPCV2000	1STQ009295A0000	1/1
Finishing profiles horizontal structure and external cable compartment					
No.2 horizontal profiles IP30		250	PPFH0250	1STQ009378A0000	1/2
No.2 horizontal profiles IP30		500	PPFH0500	1STQ009416A0000	1/2
No.2 horizontal profiles IP30		750	PPFH0750	1STQ009398A0000	1/2
No.2 horizontal profiles IP30		1000	PPFH1000	1STQ008057A0000	1/2
No.2 horizontal profiles IP30		1250	PPFH1250	1STQ008058A0000	1/2



Crosspiece for horizontal busbar assembly under top or on bottom of structure

For assembly in D>300mm structures with internal cable compartment, order PCCM.... cable compartment depth.

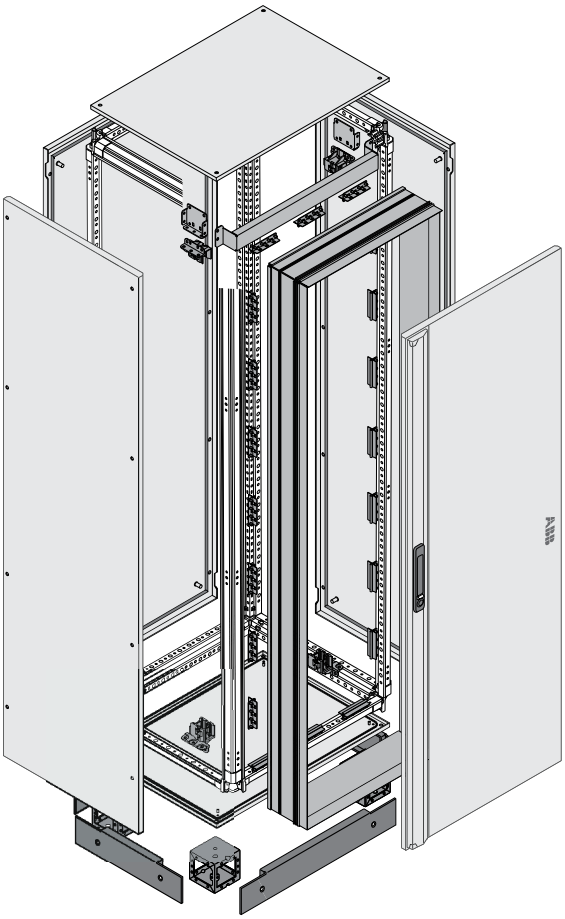
Description	Dimensions (mm) W	Type	Order code	Pkg/ No. pcs
Intermediate crosspiece for busbars under top/on bottom	250	PCKI0250	1STQ001328B0000	1/1
Intermediate crosspiece for busbars under top/on bottom	500	PCIS0500	1STQ009165A0000	1/1
Intermediate crosspiece for busbars under top/on bottom	750	PCKI0750	1STQ001330B0000	1/1
Intermediate crosspiece for busbars under top/on bottom	1000	PCKI1000	1STQ008103A0000	1/1
Intermediate crosspiece for busbars under top/on bottom	1250	PCKI1250	1STQ008104A0000	1/1

Dedicated solution

CombiLine-M - Order codes

Configuration example

Functional dimensions 2000x750x500mm (HxWxD) structure with H=100mm plinth, adapted to CombiLine-M fixing. WR frame and CombiLine-M modules to be added.



Quantity	Order code	Part	Description
1	PUPM2000	Structure	No. 4 galvanized sheet uprights H=2000mm
1	PCFM0750	Structure	No. 4 width stainless steel crosspieces W=750mm
1	PCFM0500	Structure	No. 4 depth galvanized sheet crosspieces D=500mm
1	PPAM0100	Structure	No. 4 corners plinth H=100mm
1	PPFM1075	Structure	No. 2 front/rear plinth flanges W=750mm
1	PPFM1050	Structure	No. 2 side plinth flanges D=500mm
2	PTBB7550	External covers	IP30/31, 40/41 blind top/bottom W=750mm D=500mm
1	PPEB2077	External covers	IP30/31, IP40/41 blind back panel H=2000mm W=750mm
2	PPEB2050	External covers	IP30/IP31, IP40/IP41 blind side panel H=2000mm D=500mm
1	PDLB2075	External covers	IP40/IP41 blind door H=2000mm W=750mm
1	PCTG2075	CombiLine-M adaptors	Touch Guard profile H2000 W750
1	PBCM0004	CombiLine-M adaptors	CombiLine-M fixing set
1	PCCM2075	CombiLine-M adaptors	CombiLine-M adapter H=2000 W=750

• Quick selection guides page **6**–4 • Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution
InLine II - General information

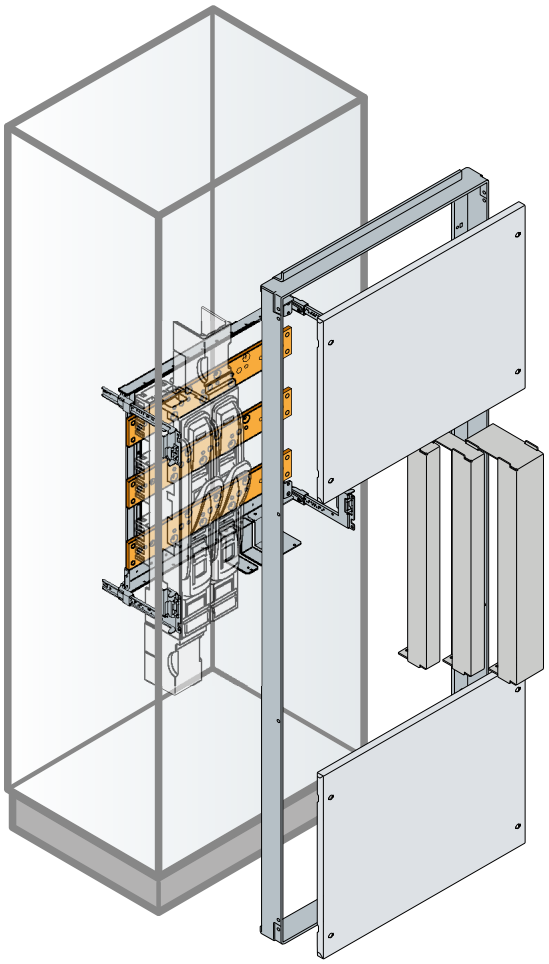
Introduction

The latest technology of Fuse Switch Disconnectors.
The new generation InLine II ensures the best stability and the highest safety in the power distribution network during operation and service.

With InLine II kits is possible to mount two types of modelss: ZLBM00/ZHBM whose width is 50mm and ZLBM123/ZHBM123 whose width it's 100mm.

Depending on the type of InLine to be used, it is necessary to provide the following busbar cross-section:

InLine In (A)	**Busbar cross-section (mm)**
800	**40x10**
1000	**50x10**
1250	**60x10**
1600	80x10



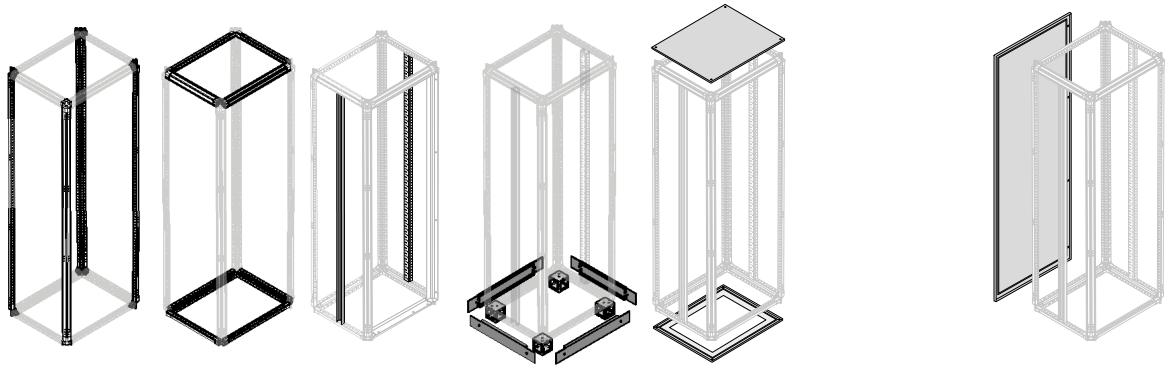
Technical features

Features		**InLine II ZLBM/ZHBM**
Rated operational voltage Ue	[V]	400 / 500 / 690
Rated operational current Ie	[A]	125...630



Dedicated solution

InLine II - Quick selection guide



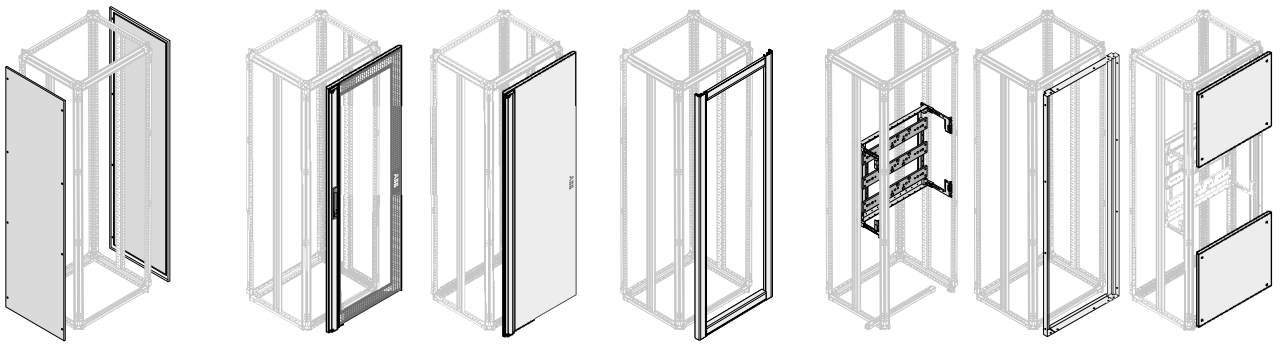
H=1800mm recommended installation solutions

Functional dimensions		Esternal dimensions		FRAME							EXTERNAL COVERS					
				Uprights	Structure crosspieces			H=100mm plinth			Top/bottom panels				Front/rear/side panels	
					Galvanized sheet metal In≤4000A *		Intermediate upright	Galvanized sheet metal In≤4000A *			Top/Bottom			Bottom	Rear panel	
									Plinth flanges		Blind		Open[2]	Without plinth	Blind	
Height 1800mm		Height 1913mm		Galvanized sheet metal * In≤4000A	Front/ Rear	Sides		Angle pieces	Front/ Rear	Sides	IP65	IP30[1] IP40[1]	IP65	IP40[3]	IP65	IP40[1]
W (mm)	D (mm)	W (mm)	D (mm)													
600	500	700	616	PUPM1800	PCFM0600	PCFM0500	PUKI1800	PPMA0100	PPFM1060	PPFM1050	PTBB6056	PTBB6050	PTBO6050	PBWP2550	PPEB1866	PPEB1860
	700		816			PCFM0700				PPFM1070	PTBB6076	PTBB6070	PTBO6070	PBWP2570		
	900		1016			PCFM0900				PPFM1090	PTBB6096	PTBB6090	PTBO6090	PBWP2590		
800	500	900	616	PUPM1800	PCFM0800	PCFM0500	PUKI1800	PPMA0100	PPFM1060	PPFM1050	PTBB8050	PTBB8050	PTBO5050	PBWP5050	PPEB1886	PPEB1880
	700		816			PCFM0700				PPFM1070	PTBB8076	PTBB8070	PTBO5070	PBWP5070		
	900		1016			PCFM0900				PPFM1090	PTBB8096	PTBB8090	PTBO5090	PBWP5090		
1000	500	1000	616	PUPM1800	PCFM1000	PCFM0500	PUKI1800	PPMA0100	PPFM1060	PPFM1050	PTBB1056	PTBB1050	PTBO1050	PBWP1050	PPEB1816	PPEB1810
	700		816			PCFM0700				PPFM1070	PTBB1076	PTBB1070	PTBO1070	PBWP1070		
	900		1016			PCFM0900				PPFM1090	PTBB1096	PTBB1090	PTBO1090	PBWP1090		

H=2000mm recommended installation solutions

Functional dimensions		Esternal dimensions		FRAME							EXTERNAL COVERS					
				Uprights	Structure crosspieces			H=100mm plinth			Top/bottom panels				Front/rear/side panels	
					Galvanized sheet metal In≤4000A *		Intermediate upright	Galvanized sheet metal In≤4000A *			Top/Bottom			Bottom	Rear panel	
									Plinth flanges		Blind		Open[2]	Without plinth	Blind	
Height 1800mm		Height 1913mm		Galvanized sheet metal * In≤4000A	Front/ Rear	Sides		Angle pieces	Front/ Rear	Sides	IP65	IP30[1] IP40[1]	IP65	IP40[3]	IP65	IP40[1]
W (mm)	D (mm)	W (mm)	D (mm)													
600	500	700	616	PUPM2000	PCFM0600	PCFM0500	PUKI2000	PPMA0100	PPFM1060	PPFM1050	PTBB6056	PTBB6050	PTBO6050	PBWP2550	PPEB2066	PPEB2060
	700		816			PCFM0700				PPFM1070	PTBB6076	PTBB6070	PTBO6070	PBWP2570		
	900		1016			PCFM0900				PPFM1090	PTBB6096	PTBB6090	PTBO6090	PBWP2590		
800	500	900	616	PUPM2000	PCFM0800	PCFM0500	PUKI2000	PPMA0100	PPFM1060	PPFM1050	PTBB8050	PTBB8050	PTBO5050	PBWP5050	PPEB2086	PPEB2080
	700		816			PCFM0700				PPFM1070	PTBB8076	PTBB8070	PTBO5070	PBWP5070		
	900		1016			PCFM0900				PPFM1090	PTBB8096	PTBB8090	PTBO5090	PBWP5090		
1000	500	1000	616	PUPM2000	PCFM1000	PCFM0500	PUKI2000	PPMA0100	PPFM1060	PPFM1050	PTBB1056	PTBB1050	PTBO1050	PBWP1050	PPEB2016	PPEB2010
	700		816			PCFM0700				PPFM1070	PTBB1076	PTBB1070	PTBO1070	PBWP1070		
	900		1016			PCFM0900				PPFM1090	PTBB1096	PTBB1090	PTBO1090	PBWP1090		

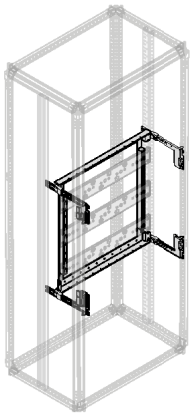
Also available in stainless steel, see page 2/8.
Consult page 2/12 and 7/2 for selection of the protection class.
[1] In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit, page 2/23.
[2] Use the dedicated incoming cable flanges to obtain protection class IP65.
[3] Bottom for switchboard without plinth complete with the dedicated set of brackets, which can be ordered separately.



											INLINE II		
									Finishing profiles IP30				
		Side panel			Glass door 24/36/48 mod. DIN		Blind door 24/36/48 mod. DIN						
	Vented	Blind		Vented									
	IP30[1]	IP65	IP40[1]	IP30[1]	IP65	IP30[1] P40[1]	IP65	IP30[1] P40[1]	Vertical profile	Horizontal profile	InLine II kit	Fixed frame	Front panels
	PPEA1860	PPEB1856	PPEB1850	PPEA1850	PDLG1866	PDLG1860	PDLB1866	PDLB1860	PPFV1800	PPFH0600	PKNL1260	PFNL1860	No.2 PPNL3060
		PPEB1876	PPEB1870	PPEA1870									
		PPEB1896	PPEB1890	PPEA1890									
	PPEA1880	PPEB1856	PPEB1850	PPEA1850	PDLG1886	PDLG1880	PDLB1886	PDLB1880	PPFV1800	PPFH0800	PKNL1280	PFNL1880	No.2 PPNL3080
		PPEB1876	PPEB1870	PPEA1870									
		PPEB1896	PPEB1890	PPEA1890									
	PPEA1810	PPEB1856	PPEB1850	PPEA1850	PDLG1816	PDLG1810	PDLB1816	PDLB1810	PPFV1800	PPFH1000	PKNL1210	PFNL1810	No.2 PPNL3010
		PPEB1876	PPEB1870	PPEA1870									
		PPEB1896	PPEB1890	PPEA1890									

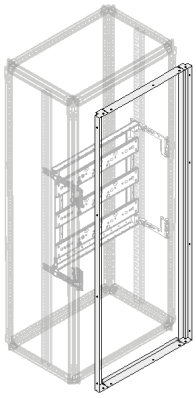
											INLINE II		
									Finishing profiles IP30				
		Side panel			Glass door 24/36/48 mod. DIN		Blind door 24/36/48 mod. DIN						
	Vented	Blind		Vented									
	IP30[1]	IP65	IP40[1]	IP30[1]	IP65	IP30[1] P40[1]	IP65	IP30[1] P40[1]	Vertical profile	Horizontal profile	InLine II kit	Fixed frame	Front panels
	PPEA2060	PPEB1856	PPEB1850	PPEA1850	PDLG2066	PDLG2060	PDLB2066	PDLB2060	PPFV2000	PPFH0600	PKNL1260	PFNL2060	No.2 PPNL4060
		PPEB1876	PPEB1870	PPEA1870									
		PPEB1896	PPEB1890	PPEA1890									
	PPEA2080	PPEB1856	PPEB1850	PPEA1850	PDLG2086	PDLG2080	PDLB2086	PDLB2080	PPFV2000	PPFH0800	PKNL1280	PFNL2080	No.2 PPNL4080
		PPEB1876	PPEB1870	PPEA1870									
		PPEB1896	PPEB1890	PPEA1890									
	PPEA2010	PPEB1856	PPEB1850	PPEA1850	PDLG2016	PDLG2010	PDLB2016	PDLB2010	PPFV2000	PPFH1000	PKNL1210	PFNL2010	No.2 PPNL4010
		PPEB1876	PPEB1870	PPEA1870									
		PPEB1896	PPEB1890	PPEA1890									

Dedicated solution
InLine II - Order codes



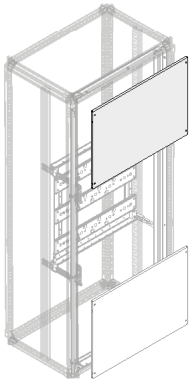
InLine II mounting kit
Kit for the fixing of InLine II fuseholders

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
InLine mounting kit + front panel	1200	600	PKNL1260	1STQ009823A0000	1/1
InLine mounting kit + front panel	1200	800	PKNL1280	1STQ009847A0000	1/1
InLine mounting kit + front panel	1200	1000	PKNL1210	1STQ009863A0000	1/1



Fixed frame for InLine II panels
fixed frame for InLine II for internal panels reduces the available useful space by 100mm. InLine II fixed frame allows to fit only InLine II panels listed below.

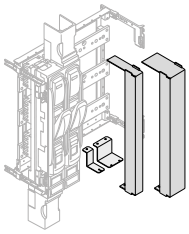
Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Fixed frame for panels in the InLine column	1800	600	PFNL1860	1STQ001372B0000	1/1
Fixed frame for panels in the InLine column	1800	800	PFNL1880	1STQ001374B0000	1/1
Fixed frame for panels in the InLine column	1800	1000	PFNL1810	1STQ001376B0000	1/1
Fixed frame for panels in the InLine column	2000	600	PFNL2060	1STQ001373B0000	1/1
Fixed frame for panels in the InLine column	2000	800	PFNL2080	1STQ001375B0000	1/1
Fixed frame for panels in the InLine column	2000	1000	PFNL2010	1STQ001377B0000	1/1



Flat blind panels for InLine II fixed frame
Panels with 1/4 turn screws, hinged on the right or left with the dedicated PHFP0020 kit.
These panels are dedicated to InLine II fixed frame only.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Blind flat panel for InLine column	300	600	PPNL3060	1STQ001378B0000	1/1
Blind flat panel for InLine column	300	800	PPNL3080	1STQ001379B0000	1/1
Blind flat panel for InLine column	300	1000	PPNL3010	1STQ001380B0000	1/1
Blind flat panel for InLine column	400	600	PPNL4060	1STQ001381B0000	1/1
Blind flat panel for InLine column	400	800	PPNL4080	1STQ001382B0000	1/1
Blind flat panel for InLine column	400	1000	PPNL4010	1STQ001383B0000	1/1

Order 2 pieces for a complete structure.



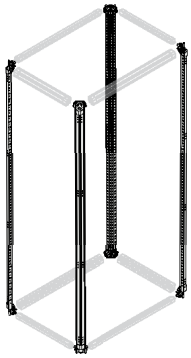
InLine II dummy modules
Dummy modules InLine II to cover free space in the enclosure and guarantee touch protection.

Description	Dimensions (mm) W	Type	Order code	Pkg/ No. pcs
InLine vertical compensator	50	PCNL0050	1STQ009406A0000	1/1
InLine vertical compensator	100	PCNL0100	1STQ009368A0000	1/1

• Quick selection guides page **6**–24 • Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

InLine II - Order codes



Uprights – Galvanized sheet metal *

Upright formed by a closed profile made of galvanized sheet metal. The uprights include 8 already assembled 3-way joints, 8 already assembled axial screws and 16 loose axial screws. For applications with In ≤4000A.

Description	Dimensions (mm) H	Type	Order code	Pkg/ No. pcs
No.4 galvanized sheet metal uprights	1800	PUPM1800	1STQ007033A0000	1/4
No.4 galvanized sheet metal uprights	2000	PUPM2000	1STQ007034A0000	1/4

* Also available in stainless steel, see page 2/15.

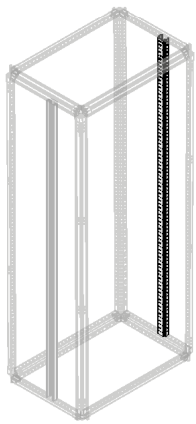


Structure crosspieces – Galvanized sheel metal *

Depth and width crosspieces for structures in galvanized sheet metal. For applications with ≤4000A.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Width crosspieces					
No.4 width crosspieces galvanized sheet metal	600		PCFM0600	1STQ007040A0000	1/4
No.4 width crosspieces galvanized sheet metal	800		PCFM0800	1STQ007042A0000	1/4
No.4 width crosspieces galvanized sheet metal	1000		PCFM1000	1STQ007043A0000	1/4
Depth crosspieces					
No.4 width crosspieces galvanized sheet metal		500	PCFM0500	1STQ007039A0000	1/4
No.4 width crosspieces galvanized sheet metal		700	PCFM0700	1STQ007046A0000	1/4
No.4 width crosspieces galvanized sheet metal		900	PCFM0900	1STQ007047A0000	1/4

* Also available in stainless steel, see page 2/15.



Intermediate upright for internal kit assembly

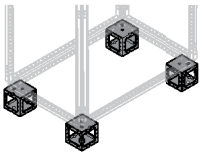
Intermediate depth upright for assembling kits for Tmax and Emax 2. The intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in nonsegregated structures. Order 2 uprights for the kits.

Description	Dimensions (mm) H	Type	Order code	Pkg/ No. pcs
Intermediate upright for internal kits	1800	PUKI1800	1STQ008039A0000	1/1
Intermediate upright for internal kits	2000	PUKI2000	1STQ008040A0000	1/1

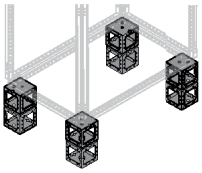
Dedicated solution

InLine II - Order codes

PPAM0100



PPAM0200

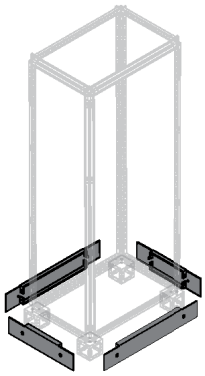


Universal angle pieces for plinths in galvanized sheet metal

Not pre-assembled to the structure. New angle piece with high mechanical strength. Can be fixed from the outside and from the inside of the structure even at a later date. Equipped with anti-rotation system and bottom that can be transported with a transpallet.

Description	Dimensions (mm) H	Type	Order code	Pkg/ No. pcs
No.4 plinth angle pieces	100	PPAM0100	1STQ007048A0000	1/4
No.8 plinth angle pieces H=100mm pre-assembled*	200	PPAM0200	1STQ007207A0000	1/4

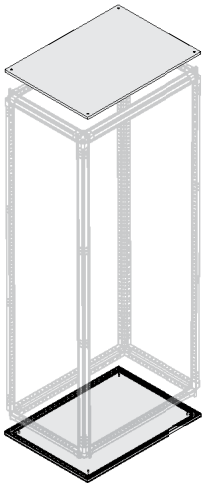
*Order no. 2 pieces of H=100mm covering flange kits to complete the H=200mm plinth.



Plinth flanges

Side and front/rear plinth flanges H=100mm RAL 7012.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Front/rear plinth flanges					
No.2 plinth flanges	600		PPFM1060	1STQ007053A0000	1/2
No.2 plinth flanges	800		PPFM1080	1STQ007055A0000	1/2
No.2 plinth flanges	1000		PPFM1010	1STQ007056A0000	1/2
Side plinth flanges					
No.2 plinth flanges		500	PPFM1050	1STQ007052A0000	1/2
No.2 plinth flanges		700	PPFM1070	1STQ007059A0000	1/2
No.2 plinth flanges		900	PPFM1090	1STQ007060A0000	1/2



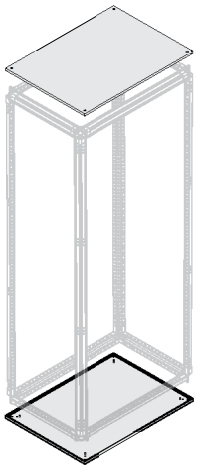
Blind Top/Bottom IP65 – Pickled sheet steel

Pickled sheet steel with IP65 gasket. The article comprises one single component that can be used as either a top or bottom. In order to purchase both the top and the bottom, please order two quantities of the same code or two different top/bottom codes according to the desired design of the structure. The code includes four M12x20 screws.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Blind Top/Bottom IP65	600	500	PTBB6056	1STQ007088A0000	1/1
Blind Top/Bottom IP65	600	700	PTBB6076	1STQ007089A0000	1/1
Blind Top/Bottom IP65	600	900	PTBB6096	1STQ007090A0000	1/1
Blind Top/Bottom IP65	800	500	PTBB8056	1STQ007096A0000	1/1
Blind Top/Bottom IP65	800	700	PTBB8076	1STQ007097A0000	1/1
Blind Top/Bottom IP65	800	900	PTBB8096	1STQ007098A0000	1/1
Blind Top/Bottom IP65	1000	500	PTBB1056	1STQ007100A0000	1/1
Blind Top/Bottom IP65	1000	700	PTBB1076	1STQ007101A0000	1/1
Blind Top/Bottom IP65	1000	900	PTBB1096	1STQ007102A0000	1/1

Dedicated solution

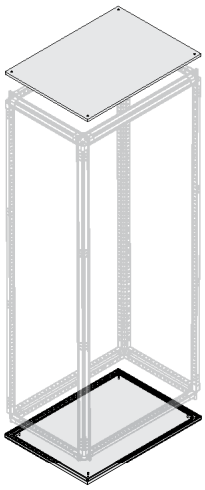
InLine II - Order codes



Blind Top/Bottom IP30, IP40 – Pickled sheet steel

Pickled sheet steel without gasket. In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit, page 6-12. The article comprises one single component that can be used as either a top or bottom. In order to purchase both the top and the bottom, please order two quantities of the same code or two different top/bottom codes according to the desired design of the structure. The code includes four M12x20 screws.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Blind Top/Bottom IP30, 40	600	500	PTBB6050	1STQ007119A0000	1/1
Blind Top/Bottom IP30, 40	600	700	PTBB6070	1STQ007120A0000	1/1
Blind Top/Bottom IP30, 40	600	900	PTBB6090	1STQ007121A0000	1/1
Blind Top/Bottom IP30, 40	800	500	PTBB8050	1STQ007124A0000	1/1
Blind Top/Bottom IP30, 40	800	700	PTBB8070	1STQ007125A0000	1/1
Blind Top/Bottom IP30, 40	800	900	PTBB8090	1STQ007126A0000	1/1
Blind Top/Bottom IP30, 40	1000	500	PTBB1050	1STQ007128A0000	1/1
Blind Top/Bottom IP30, 40	1000	700	PTBB1070	1STQ007129A0000	1/1
Blind Top/Bottom IP30, 40	1000	900	PTBB1090	1STQ007130A0000	1/1



Blind Top/Bottom IP65 – Pickled sheet steel

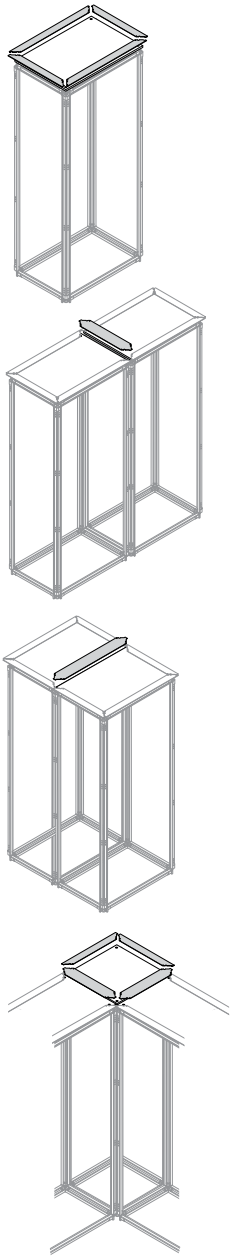
Pickled sheet steel with IP65 gasket. The article comprises one single component that can be used as either a top or bottom. In order to purchase both the top and the bottom, please order two quantities of the same code or two different top/bottom codes according to the desired design of the structure. The code includes four M12x20 screws.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
IP65 blind top/bottom	250	200	PTBB2526	1STQ001270B0000	1/1
IP65 blind top/bottom	250	300	PTBB2536	1STQ007071A0000	1/1
IP65 blind top/bottom	250	500	PTBB2556	1STQ007072A0000	1/1
IP65 blind top/bottom	250	700	PTBB2576	1STQ007073A0000	1/1
IP65 blind top/bottom	250	900	PTBB2596	1STQ001271B0000	1/1
IP65 blind top/bottom	500	200	PTBB5026	1STQ001284B0000	1/1
IP65 blind top/bottom	500	300	PTBB3056	1STQ007076A0000	1/1
IP65 blind top/bottom	500	500	PTBB5050	1STQ009179A0000	1/1
IP65 blind top/bottom	500	700	PTBB5076	1STQ007085A0000	1/1
IP65 blind top/bottom	500	900	PTBB5096	1STQ001286B0000	1/1
IP65 blind top/bottom	750	200	PTBB7526	1STQ001303B0000	1/1
IP65 blind top/bottom	750	300	PTBB7536	1STQ007091A0000	1/1
IP65 blind top/bottom	750	500	PTBB7556	1STQ007092A0000	1/1
IP65 blind top/bottom	750	700	PTBB7576	1STQ007093A0000	1/1
IP65 blind top/bottom	750	900	PTBB7596	1STQ001304B0000	1/1
Blind Top/Bottom IP65	1000	200	PTBB1026	1STQ009178A0000	1/1
Blind Top/Bottom IP65	1000	300	PTBB1036	1STQ007099A0000	1/1
Blind Top/Bottom IP65	1000	500	PTBB1056	1STQ007100A0000	1/1
Blind Top/Bottom IP65	1000	700	PTBB1076	1STQ007101A0000	1/1
Blind Top/Bottom IP65	1000	900	PTBB1096	1STQ007102A0000	1/1

• Quick selection guides page **6**–24 • Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

InLine II - Order codes



Top sealing kit IP31/IP41 *

Profiles for IP31/IP41 for top.

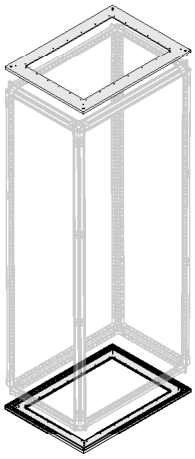
Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
N.2 roof profiles for single column		200	PKST0200	1STQ001905B0000	1/2
N.2 roof profiles for single column		300	PKST0301	1STQ001935B0000	1/1
N.2 roof profiles for single column		500	PKST0501	1STQ001936B0000	1/1
N.2 roof profiles for single column		700	PKST0700	1STQ001911B0000	1/2
N.2 roof profiles for single column		900	PKST0900	1STQ001914B0000	1/2
N.2 roof profiles for single column	250		PKST0250	1STQ001906B0000	1/2
N.2 roof profiles for single column	300		PKST0300	1STQ001907B0000	1/2
N.2 roof profiles for single column	400		PKST0400	1STQ001908B0000	1/2
N.2 roof profiles for single column	500		PKST0500	1STQ001909B0000	1/2
N.2 roof profiles for single column	600		PKST0600	1STQ001910B0000	1/2
N.2 roof profiles for single column	750		PKST0750	1STQ001912B0000	1/2
N.2 roof profiles for single column	800		PKST0800	1STQ001913B0000	1/2
N.2 roof profiles for single column	1000		PKST1000	1STQ001915B0000	1/2
N.2 roof profiles for single column	1250		PKST1250	1STQ001916B0000	1/2
N.1 roof profile for side by side column		200	PKDT0200	1STQ001917B0000	1/1
N.1 roof profile for side by side column		300	PKDT0301	1STQ001937B0000	1/1
N.1 roof profile for side by side column		700	PKDT0700	1STQ001923B0000	1/1
N.1 roof profile for side by side column		900	PKDT0900	1STQ001926B0000	1/1
N.1 roof profile for side by side column		500	PKDT0501	1STQ001938B0000	1/1
N.1 roof profile for back to back column	250		PKDT0250	1STQ001918B0000	1/1
N.1 roof profile for back to back column	300		PKDT0300	1STQ001919B0000	1/1
N.1 roof profile for back to back column	400		PKDT0400	1STQ001920B0000	1/1
N.1 roof profile for back to back column	500		PKDT0500	1STQ001921B0000	1/1
N.1 roof profile for back to back column	600		PKDT0600	1STQ001922B0000	1/1
N.1 roof profile for back to back column	750		PKDT0750	1STQ001924B0000	1/1
N.1 roof profile for back to back column	800		PKDT0800	1STQ001925B0000	1/1
N.1 roof profile for back to back column	1000		PKDT1000	1STQ001927B0000	1/1
N.1 roof profile for back to back column	1250		PKDT1250	1STQ001928B0000	1/1
Roof profiles for corner structure	500	500	PKAT5050	1STQ001939B0000	1/4
Roof profiles for corner structure	700	700	PKAT7070	1STQ001941B0000	1/4
Roof profiles for corner structure	900	900	PKAT9090	1STQ001943B0000	1/4

*Available from January 2016.

• Quick selection guides page **6**–24 • Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

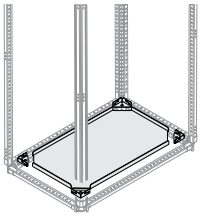
InLine II - Order codes



Open Top/Bottom

Pickled sheet steel with holes. The code comprises one single component that can be used as either a top or bottom. In order to purchase both the top and the bottom, please order two quantities of the same code or two different top/bottom codes according to the desired design of the structure.
In order to reach IP65 protection degree, use the dedicated fixed cable incoming flanges PFCF….; in order to reach IP40 protection degree, use the dedicated swinging cable incoming flanges PFCS…. at page 4/28-4/29. The use of the single open top/bottom without flanges does not guarantee any degree of protection IP. The open top/bottom, associated with sliding flanges, is incompatible with crosspieces assembled inside the cable compartment.

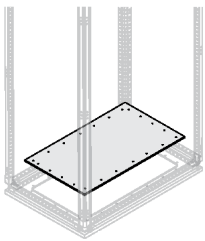
Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Open Top/Bottom	600	500	PTBO6050	1STQ007149A0000	1/1
Open Top/Bottom	600	700	PTBO6070	1STQ007150A0000	1/1
Open Top/Bottom	600	900	PTBO6090	1STQ007151A0000	1/1
Open Top/Bottom	800	500	PTBO8050	1STQ007157A0000	1/1
Open Top/Bottom	800	700	PTBO8070	1STQ007158A0000	1/1
Open Top/Bottom	800	900	PTBO8090	1STQ007159A0000	1/1
Open Top/Bottom	1000	500	PTBO1050	1STQ007161A0000	1/1
Open Top/Bottom	1000	700	PTBO1070	1STQ007162A0000	1/1
Open Top/Bottom	1000	900	PTBO1090	1STQ007163A0000	1/1



Internal bottom IP40

Internal galvanized steel bottom with special brackets kit included (special brackets kit available also as spare part with the code PBRB0004). In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKPT..., page 6-12.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Internal bottom	600	500	PBWP6050	1STQ007185A0000	1/1
Internal bottom	600	700	PBWP6070	1STQ007186A0000	1/1
Internal bottom	600	900	PBWP6090	1STQ007187A0000	1/1
Internal bottom	800	500	PBWP8050	1STQ007193A0000	1/1
Internal bottom	800	700	PBWP8070	1STQ007194A0000	1/1
Internal bottom	800	900	PBWP8090	1STQ007195A0000	1/1
Internal bottom	1000	500	PBWP1050	1STQ007197A0000	1/1
Internal bottom	1000	700	PBWP1070	1STQ007198A0000	1/1
Internal bottom	1000	900	PBWP1090	1STQ007199A0000	1/1



Fixed incoming cable flange

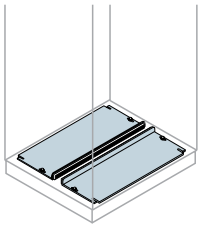
Fixed incoming cable flange in sheet metal to use in conjunction with the open bottom to guarantee IP65 protection class. With internal cable compartment crosspieces it is necessary to mount the fixed flange first.

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Fixed incoming cable flange	600	500	PFCF6050	1STQ007672A0000	1/1
Fixed incoming cable flange	600	700	PFCF6070	1STQ007673A0000	1/1
Fixed incoming cable flange	600	900	PFCF6090	1STQ007674A0000	1/1
Fixed incoming cable flange	800	500	PFCF8050	1STQ007680A0000	1/1
Fixed incoming cable flange	800	700	PFCF8070	1STQ007681A0000	1/1
Fixed incoming cable flange	800	900	PFCF8090	1STQ007682A0000	1/1
Fixed incoming cable flange	1000	500	PFCF1050	1STQ007684A0000	1/1
Fixed incoming cable flange	1000	700	PFCF1070	1STQ007685A0000	1/1
Fixed incoming cable flange	1000	900	PFCF1090	1STQ007686A0000	1/1

• Quick selection guides page **6**–24 • Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

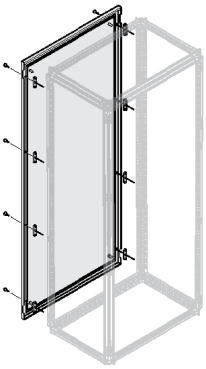
InLine II - Order codes



Sliding incoming cable flanges in sheet metal

Sliding incoming cable flanges in sheet metal to use in conjunction with the open bottom to guarantee IP40 protection class. It is not possible to assemble the sliding flanges in structures with internal cable compartment.

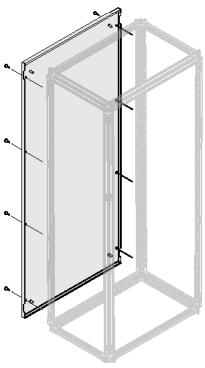
Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
No.2 sliding flanges	600	500	PFCS6050	1STQ007705A0000	1/2
No.2 sliding flanges	600	700	PFCS6070	1STQ007706A0000	1/2
No.2 sliding flanges	600	900	PFCS6090	1STQ007707A0000	1/2
No.2 sliding flanges	800	500	PFCS8050	1STQ007712A0000	1/2
No.2 sliding flanges	800	700	PFCS8070	1STQ007713A0000	1/2
No.2 sliding flanges	800	900	PFCS8090	1STQ007714A0000	1/2
No.2 sliding flanges	1000	500	PFCS1050	1STQ007716A0000	1/2
No.2 sliding flanges	1000	700	PFCS1070	1STQ007717A0000	1/2
No.2 sliding flanges	1000	900	PFCS1090	1STQ007718A0000	1/2



External blind rear panel IP65

Pickled sheet steel with gasket and plugs IP65.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Blind rear panel IP65	1800	600	PPEB1866	1STQ007580A0000	1/1
Blind rear panel IP65	1800	800	PPEB1886	1STQ007583A0000	1/1
Blind rear panel IP65	1800	1000	PPEB1816	1STQ007585A0000	1/1
Blind rear panel IP65	2000	600	PPEB2066	1STQ007592A0000	1/1
Blind rear panel IP65	2000	800	PPEB2086	1STQ007594A0000	1/1
Blind rear panel IP65	2000	1000	PPEB2016	1STQ007596A0000	1/1



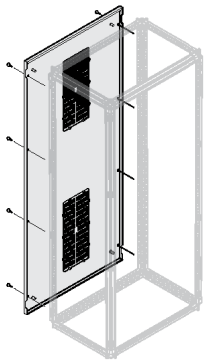
External blind rear panel IP40

Pickled sheet steel without gasket. In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKPT..., page 6-12.

Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Blind rear panel IP40	1800	600	PPEB1860	1STQ007611A0000	1/1
Blind rear panel IP40	1800	800	PPEB1880	1STQ007613A0000	1/1
Blind rear panel IP40	1800	1000	PPEB1810	1STQ007615A0000	1/1
Blind rear panel IP40	2000	600	PPEB2060	1STQ007622A0000	1/1
Blind rear panel IP40	2000	800	PPEB2080	1STQ007624A0000	1/1
Blind rear panel IP40	2000	1000	PPEB2010	1STQ007626A0000	1/1

Dedicated solution

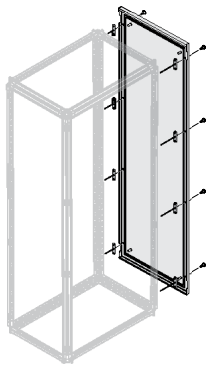
InLine II - Order codes



External vented rear panel IP30

In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKPT...., page 6-12.

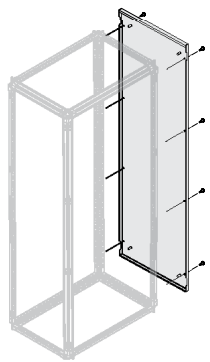
Description	No. Vented grates	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Vented rear panel IP30	2	1800	600	PPEA1860	1STQ007633A0000	1/1
Vented rear panel IP30	4	1800	800	PPEA1880	1STQ007636A0000	1/1
Vented rear panel IP30	6	1800	1000	PPEA1810	1STQ007638A0000	1/1
Vented rear panel IP30	2	2000	600	PPEA2060	1STQ007644A0000	1/1
Vented rear panel IP30	4	2000	800	PPEA2080	1STQ007646A0000	1/1
Vented rear panel IP30	6	2000	1000	PPEA2010	1STQ007648A0000	1/1



External blind side panel IP65

Pickled sheet steel with gasket and plugs IP65. The code refers to one single side panel.

Description	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Blind side panel IP65	1800	500	PPEB1856	1STQ007579A0000	1/1
Blind side panel IP65	1800	700	PPEB1876	1STQ007581A0000	1/1
Blind side panel IP65	1800	900	PPEB1896	1STQ007584A0000	1/1
Blind side panel IP65	2000	500	PPEB2056	1STQ008106A0000	1/1
Blind side panel IP65	2000	700	PPEB2076	1STQ008107A0000	1/1
Blind side panel IP65	2000	900	PPEB2096	1STQ008108A0000	1/1



External blind side panel IP40

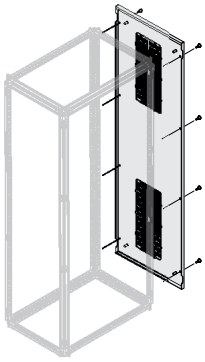
Pickled sheet steel with gasket. The code refers to one single side panel. In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKPT...., page 6-12.

Description	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Blind side panel IP40	1800	500	PPEB1850	1STQ007610A0000	1/1
Blind side panel IP40	1800	700	PPEB1870	1STQ007612A0000	1/1
Blind side panel IP40	1800	900	PPEB1890	1STQ007614A0000	1/1
Blind side panel IP40	2000	500	PPEB2050	1STQ007621A0000	1/1
Blind side panel IP40	2000	700	PPEB2070	1STQ007623A0000	1/1
Blind side panel IP40	2000	900	PPEB2090	1STQ007625A0000	1/1

• Quick selection guides page **6**–24 • Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

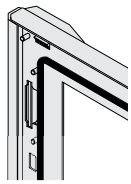
InLine II - Order codes



External vented side panel IP30

Pickled sheet steel without gasket. The code refers to one single side panel. In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKPT...., page 6-12.

Description	No. Vented grates	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Vented side panel IP30	2	1800	500	PPEA1850	1STQ007632A0000	1/1
Vented side panel IP30	2	1800	700	PPEA1870	1STQ007634A0000	1/1
Vented side panel IP30	4	1800	900	PPEA1890	1STQ007637A0000	1/1
Vented side panel IP30	2	2000	500	PPEA2050	1STQ007643A0000	1/1
Vented side panel IP30	2	2000	700	PPEA2070	1STQ007645A0000	1/1
Vented side panel IP30	4	2000	900	PPEA2090	1STQ007647A0000	1/1





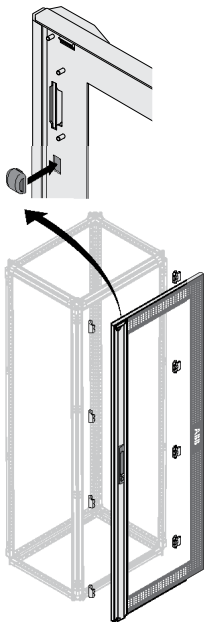
Glass door IP65

Pickled sheet steel with gasket. Opens through 135° (single column). Complete with 4 hinges to be screwed onto the uprights, 4 door closing brackets with cover and handle. Handle and hinges provided (not pre-assembled for complete reversibility). Doors can be mounted both on the front and on the back of the enclosures.

Description	No. DIN modules	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Glass door IP65	24	1800	600	PDLG1866	1STQ007305A0000	1/1
Glass door IP65	36	1800	800	PDLG1886	1STQ007308A0000	1/1
Glass door IP65	48	1800	1000	PDLG1816	1STQ007311A0000	1/1
Glass door IP65	24	2000	600	PDLG2066	1STQ007316A0000	1/1
Glass door IP65	36	2000	800	PDLG2086	1STQ007319A0000	1/1
Glass door IP65	48	2000	1000	PDLG2016	1STQ007322A0000	1/1

Dedicated solution

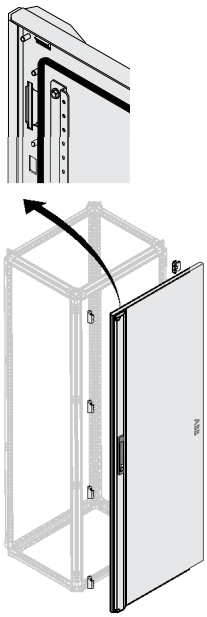
InLine II - Order codes



Glass door without gasket

Suitable for IP30 and IP40 configuration. Pickled sheet steel without gasket and 4 rubber overlapping plugs. Opens through 135° (single column). Complete with 4 hinges to be screwed onto the uprights, 4 door closing brackets with cover and handle. Handle and hinges provided (not pre-assembled for complete reversibility). In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKPT..., page 6-12. Doors can be mounted both on the front and on the back of the enclosures.

Description	No. Vented grates	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Glass door IP40	24	1800	600	PDLG1860	1STQ007327A0000	1/1
Glass door IP40	36	1800	800	PDLG1880	1STQ007330A0000	1/1
Glass door IP40	48	1800	1000	PDLG1810	1STQ007333A0000	1/1
Glass door IP40	24	2000	600	PDLG2060	1STQ007338A0000	1/1
Glass door IP40	36	2000	800	PDLG2080	1STQ007341A0000	1/1
Glass door IP40	48	2000	1000	PDLG2010	1STQ007344A0000	1/1



Blind door IP65

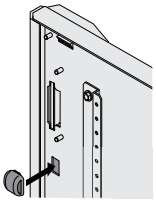
Pickled sheet steel with gasket. Opens through 135° (single column). Complete with 4 hinges to be screwed onto the uprights, 4 door closing brackets with cover and handle. Handle and hinges provided (not pre-assembled for complete reversibility). Doors can be mounted both on the front and on the back of the enclosures. Reinforcing tubes for W>400mm.

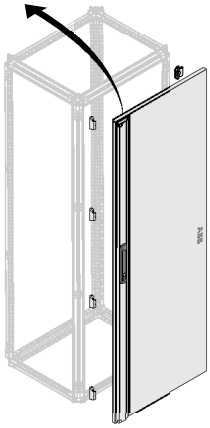
Description	No. DIN modules	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Blind door IP65	24	1800	600	PDLB1866	1STQ007349A0000	1/1
Blind door IP65	36	1800	800	PDLB1886	1STQ007350A0000	1/1
Blind door IP65	48	1800	1000	PDLB1816	1STQ007351A0000	1/1
Blind door IP65	24	2000	600	PDLB2066	1STQ007356A0000	1/1
Blind door IP65	36	2000	800	PDLB2086	1STQ007357A0000	1/1
Blind door IP65	48	2000	1000	PDLB2016	1STQ007358A0000	1/1

• Quick selection guides page **6**–24 • Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

InLine II - Order codes

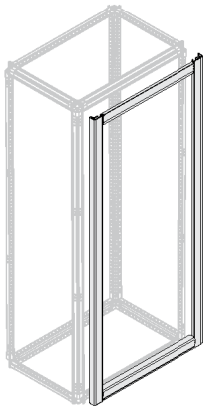




Blind door without gasket

Suitable for IP30 and IP40 configuration. Pickled sheet steel without gasket and 4 rubber overlapping plugs. Opens through 135° (single column). Complete with 4 hinges to be screwed onto the uprights, 4 door closing brackets with cover and handle. Handle and hinges provided (not pre-assembled for complete reversibility). In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKPT..., page 6-12. Doors can be mounted both on the front and on the back of the enclosures. Reinforcing tubes for W>400mm

Description	No. DIN modules	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Blind door IP40/IP41	24	1800	600	PDLB1860	1STQ007363A0000	1/1
Blind door IP40/IP41	36	1800	800	PDLB1880	1STQ007364A0000	1/1
Blind door IP40/IP41	48	1800	1000	PDLB1810	1STQ007365A0000	1/1
Blind door IP40/IP41	24	2000	600	PDLB2060	1STQ007370A0000	1/1
Blind door IP40/IP41	36	2000	800	PDLB2080	1STQ007371A0000	1/1
Blind door IP40/IP41	48	2000	1000	PDLB2010	1STQ007372A0000	1/1



Horizontal/vertical front closing profiles IP30

Profiles for IP30/IP31 pickled sheet painted RAL 7035. In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKPT..., page 6-12.

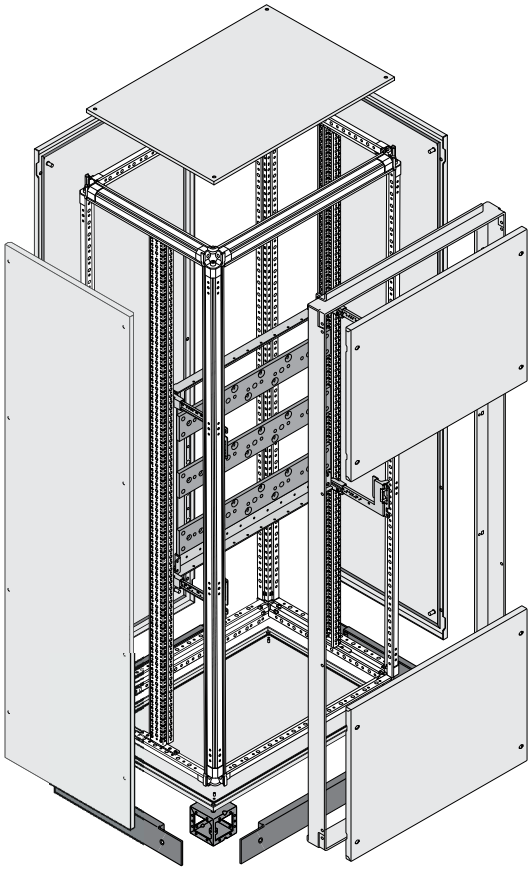
Description	Dimensions (mm) H	W	Type	Order code	Pkg/ No. pcs
Finishing profiles vertical structure and external cable compartment					
No.2 vertical profiles IP30	1800		PPFV1800	1STQ008059A0000	1/2
No.2 vertical profiles IP30	2000		PPFV2000	1STQ008060A0000	1/2
Finishing profile vertical internal cable compartment					
No.1 profile vertical IP30	1800		PPCV1800	1STQ009294A0000	1/1
No.1 profile vertical IP30	2000		PPCV2000	1STQ009295A0000	1/1
Finishing profiles horizontal structure and external cable compartment					
No.2 horizontal profiles IP30		600	PPFH0600	1STQ008055A0000	1/2
No.2 horizontal profiles IP30		800	PPFH0800	1STQ008056A0000	1/2
No.2 horizontal profiles IP30		1000	PPFH1000	1STQ008057A0000	1/2

Dedicated solution

InLine II - Order codes

Configuration example

Functional dimensions 1800x800x700mm (HxWxD) structure with H=100mm plinth, InLine II kits and front panels covers.



Quantity	Order code	Part	Description
1	PUPM1800	Structure	No. 4 galvanized sheet uprights H=1800mm
1	PCFM0800	Structure	No. 4 width galvanized sheet crosspieces W=800mm
1	PCFM0700	Structure	No. 4 depth galvanized sheet crosspieces D=700mm
1	PPAM0100	Structure	No. 4 corners plinth H=100mm
1	PPFM1080	Structure	No. 2 front/rear plinth flanges W=800mm
1	PPFM1070	Structure	No. 2 side plinth flanges D=700mm
2	PUKI2000	Kits	No. 1 Intermediate upright
1	PTBB8076	External covers	IP65 blind top/bottom W=800mm D=700mm
1	PPEB1886	External covers	IP65 blind back panel H=1800mm W=800mm
2	PPEB1876	External covers	IP65 blind side panel H=1800mm D=700mm
1	PDLG1886	External covers	IP65 36 DIN modules glass door H=1800mm W=800mm
1	PFNL1880	InLine II components	Fixed frame for panels in the InLine column H=1800mm W=800mm
2	PPNL3080	InLine II components	Blind flat panel for InLine column H=300mm W=800mm

• Quick selection guides page **6**–24 • Technical details page **7**–1 • Overall dimensions page **8**–1

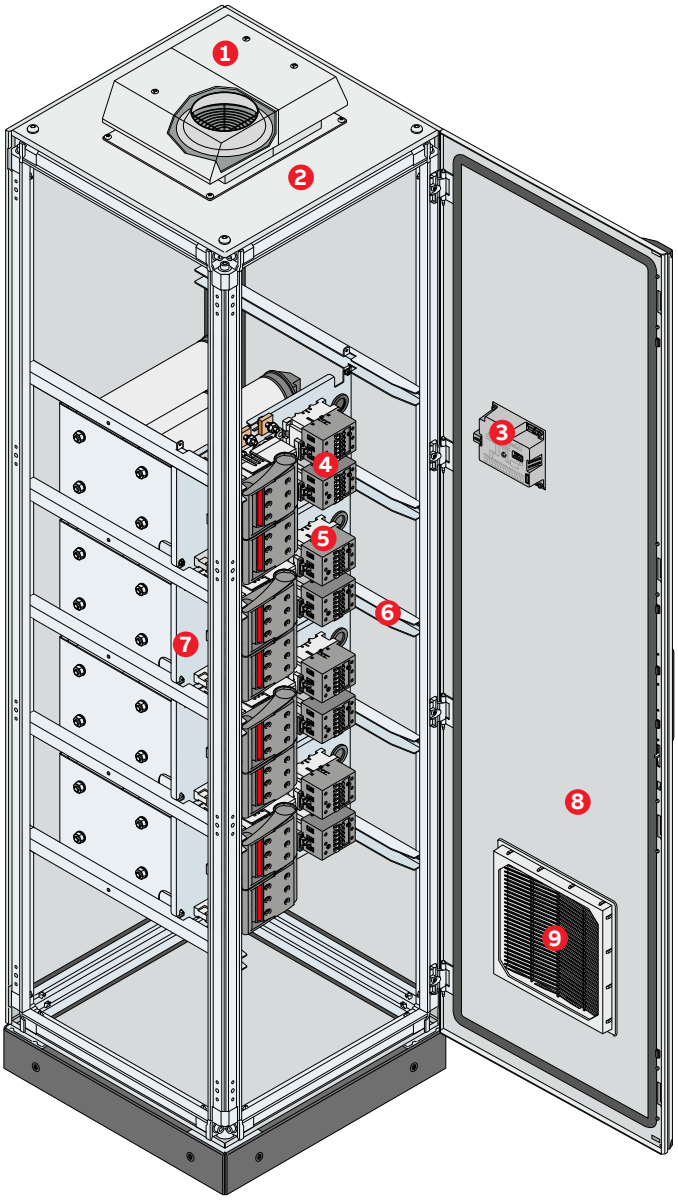
Dedicated solution
Capacitor bank application

General information

For the application, ABB provides preassembled capacitor unit ready for the installation with protection devices. So-called capacitor power module PMOD has a standard range from 220 until 690V and ratings starting from 6.25 kvar up to 100 kvar in one module (option with de-tuning reactor included up to 50 kvar).

The PMOD unit includes withdrawable shelve, capacitors, detuning reactor if specified, UA contactor and fuse protection device XLP00 EasyLine.

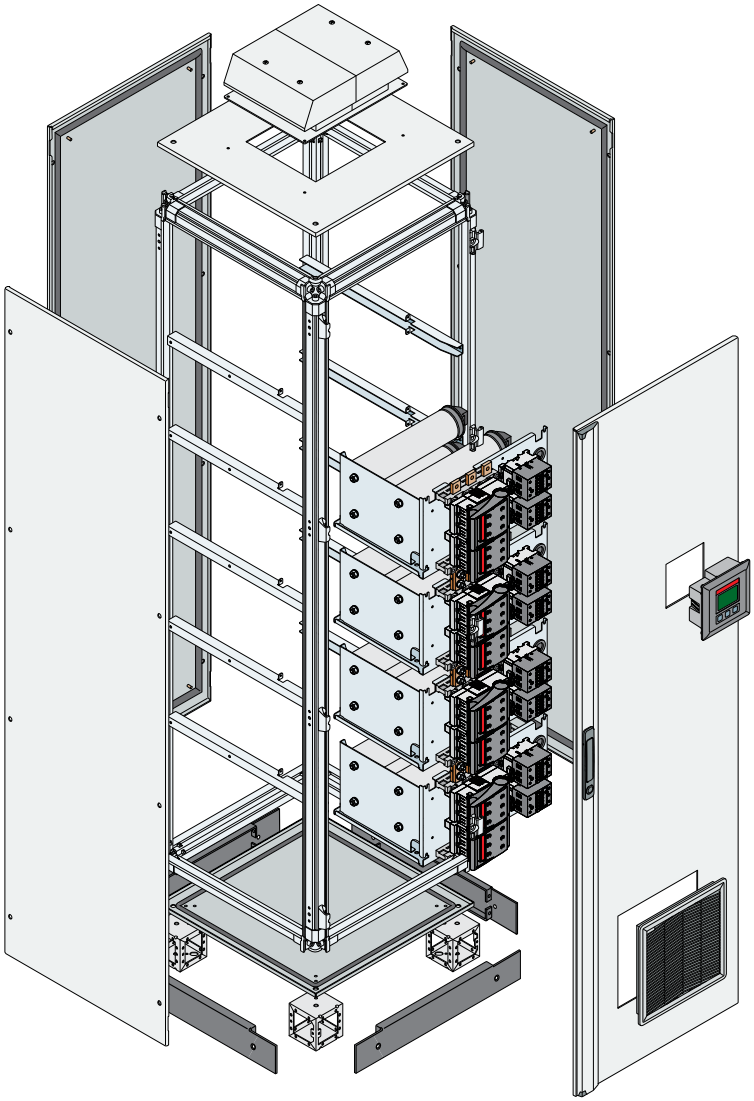
PMOD equipped with front insulators/busbar supports of 60mm inter-axial distance between the phases and with the maximum holding capacity of 30x10mm bar. It is mandatory to add supporting rails to fix the PMOD unit.



1. EN0480K-EN0482K forced ventilation outlet. Page 6-41
2. PTBO50.. top with the cutout for outlet. Page 6-40
3. RVC/RVT power factor controller. Page 6-40
4. XLP00-A60/60 fuse switch-disconnector. Page 6-42
5. UA..RA contactor. Page 6-42
6. PFRJ0500 rail for PMOD. Page 6-40
7. PMOD capacitor unit. Page 6-42
8. PDLB... door with cutout for EN0325K air inlet. Page 6-40
9. EN0325K natural ventilation inlet IP21/54. Page 6-41

Example of IP54 capacitor bank completing

Column 2000x500x500mm, 400kvar - 4x100kvar (8 steps of 50 kvar), 400V, standard clean network*, without de-tuning reactor.



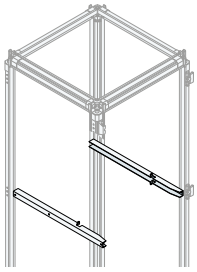
Quantity	Order code	Part	Description
1	PUPM2000	Structure	No.4 galvanized sheet metal uprights 2000mm
2	PCFM0500	Structure	No.4 width/depth crosspieces galvanized sheet metal
1	PTBB5050	Structure	IP65 blind bottom, W500/D500mm
1	PTBO5055	Structure	IP65 open bottom, W500/D500mm for "mushroom"
3	PPEB2056	Structure	Blind rear/side panel IP65, H2000/W500mm
1	PDLB2052	Structure	IP65 Door with the cutout for EN0325K air inlet
1	PPAM0100	Structure	No.4 plinth angle pieces
2	PPFM1050	Structure	No.2 front/rear plinth flanges W500mm
5	PFRJ0500	Kit	No.2 support rails for fixing capacitor bank drawer
1	EN0325K	Kit	IP21/54 natural ventilation inlet
1	EN0484K	Kit	IP54 forced ventilation outlet 230V 50/60Hz "mushroom"
1	EN0101K	Kit	NO ventilation thermostat
4	2GCA297404A0045	Equipment	PMOD XLP unit 100kvar (2 steps of 50), 400V
1	2GCA294985A0050	Equipment	RVC8 power factor controller, 8 steps

*suitable for installation when there are less than 15% of nonlinear loads and no resonance

Dedicated solution
Capacitor bank application - Order codes

Capacitor mounting set and System pro E power

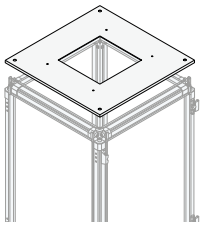
Compatible with the 500mm width of the structure. Can be combined with the horizontal main busbar system and depth more than or equal 500mm. The design is feasible with the any protection degree parts of the System, from IP40 to IP65 (the cubicle will be de-rated to IP23 or IP54).



Fixing rails for PMOD capacitor module

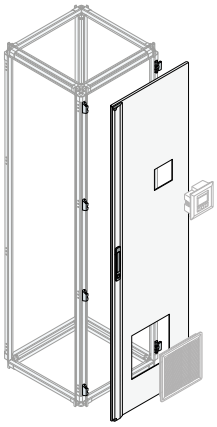
Mandatory to chose one pack for one module.

Description	Type	Order code	Pkg/ No. pcs
N.2 support rails for fixing capacitor bank drawer	PFRJ0500	1STQ005045B0000	1/2



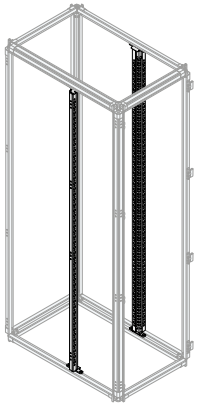
Open top prepared for the “mushroom” air outlet installation, forced ventilation

Description	Dimensions (mm) W	D	Type	Order code	Pkg/ No. pcs
Open top with cut-out for EN0480K air outlet IP23	500	500	PTBO5052	1STQ005037B0000	1/1
Open top with cut-out for EN0480K air outlet IP23	500	700	PTBO5072	1STQ005038B0000	1/1
Open top with cut-out for EN0480K air outlet IP23	500	900	PTBO5092	1STQ005039B0000	1/1
Open top with cut-out for EN0485K air outlet IP54	500	500	PTBO5055	1STQ005040B0000	1/1
Open top with cut-out for EN0485K air outlet IP54	500	700	PTBO5075	1STQ005041B0000	1/1
Open top with cut-out for EN0485K air outlet IP54	500	900	PTBO5095	1STQ005042B0000	1/1



Door with the cutout for the EN0325K air inlet and RVC/RVT controller

Description	Dimensions (mm) H	D	Type	Order code	Pkg/ No. pcs
Door with cutout for air inlet and controller	2000	2000	PDLB2052	1STQ005043B0000	1/1
Door with cutout for air inlet and controller	1800	1800	PDLB1852	1STQ005044B0000	1/1



Intermediate uprights

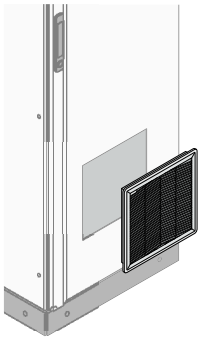
Mandatory to order 2 pieces for the structure of 700 and 900mm depth. It will provides additional fixing points for PFRJ0500 rails at the back.

Description	Dimensions (mm) H	Type	Order code	Pkg/ No. pcs
No.1 galv. sheet metal upright for cable compartment	1800	PUCM1800	1STQ007742A0000	1/1
No.1 galv. sheet metal upright for cable compartment	2000	PUCM2000	1STQ007743A0000	1/1

• Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

Capacitor bank application - Order codes

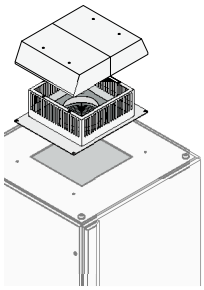


Accessories for the internal ventilation and hitting dissipation

Ventilation inlet IP21/54 to be placed on the frontal door

Gratings made of insulating material (self-extinguishing ABS UL94V-0) RAL7035 colour, complete with high dust collection capacity filter cloth (600g/m2), able to reduce maintenance interventions (cleaning by means of washing in water or by beating). Degree of protection IP21 without filter, IP54 with filter according to IEC 60529.parts of the System, from IP40 to IP65 (the cubicle will be de-rated to IP23 or IP54).

	Dimensions (mm)					Pkg/
Description	W	H		Type	Order code	No. pcs
IP21/54 natural ventilation inlet	325	325		EN0325K	-	1/1



Forced ventilation outlet “mushroom” IP23 to be placed on the roof

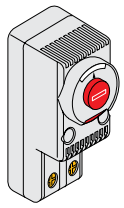
RAL 7035 colour, complete with self-adhesive gasket; consumption 58/78W, capacity 550/590m3/h. Operating temperature from -20 °C to + 60 °C, noise 68/71dB(A).

	Dimensions (mm)					Pkg/
Description	W	D	H	Type	Order code	No. pcs
IP23 forced ventilation outlet 230V 50/60Hz	375	295	119	EN0480K	-	1/1
IP23 forced ventilation outlet 230V 50/60Hz	375	295	119	EN0482K	-	1/1

Forced ventilation outlet “mushroom” IP54 to be placed on the roof

Structure made up of plastic PC/ABS (PC/ABS self-extinguishing according to UL 9V-0), with the top part in aluminium, painted RAL 7035 with polyuretanic foam gasket.

	Dimensions (mm)					Pkg/
Description	W	D	H	Type	Order code	No. pcs
IP54 forced ventilation outlet 230V 50/60Hz	324	324	94	EN0484K	-	1/1
IP54 forced ventilation outlet 230V 50/60Hz	324	324	94	EN0485K	-	1/1



IP20 Thermostat, NO - cooling

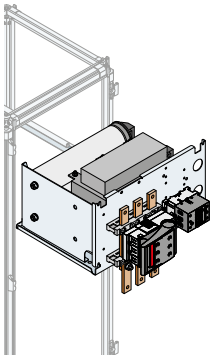
Grey RAL 7035 colour; electrical life 100,000 cycles. Dimensions (HxWxD) 68x29x45mm, can be mounted on DIN rail. Temperature scale: -10 / +80 °C. Power supply: 12-60VDC or 110-250VAC, 50/60Hz.

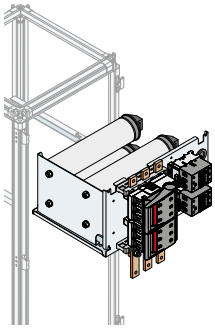
	Dimensions (mm)					Pkg/
Description	W	D	H	Type	Order code	No. pcs
NO ventilation thermostat	29	45	68	EN0101K	-	1/1

• Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

Capacitor bank application - Order codes





Power capacitors module PMOD QCap (preassembled by the factory)

QCap power module is all-in-one pre-wired power module, which includes capacitor – QCap type, contactor, fuses and reactors (if existing). QCap power module provides all advantages of QCap dry capacitor technology in a compact case, delivering high performance within a small footprint.

Connection between PMOD has to be realized by copper bars 30*10.

U network (V) (1)*	Detuning Reactor (%) (2)	Rated Power Qc (kvar) (4)	Net Output Power Q (kvar) (3)	Comments	Order code	Pkg/ No. pcs
50 Hz Network						
400	-	25	25	1 step	2GCA297400A0045	1/1
400	5,67	26,5	25	1 step	2GCA297405A0045	1/1
400	7	26,9	25	1 step	2GCA297406A0045	1/1
400	12,5	28,6	25	1 step	2GCA297407A0045	1/1
400	-	50	50	1 step	2GCA297401A0045	1/1
400	-	50	50	2 steps 25+25	2GCA297402A0045	1/1
400	5,67	53	50	1 step	2GCA297408A0045	1/1
400	7	53,8	50	1 step	2GCA297409A0045	1/1
400	12,5	57,2	50	1 step	2GCA297410A0045	1/1
400	-	75	75	2 steps 25+50	2GCA297403A0045	1/1
400	-	100	100	2 steps 50+50	2GCA297404A0045	1/1

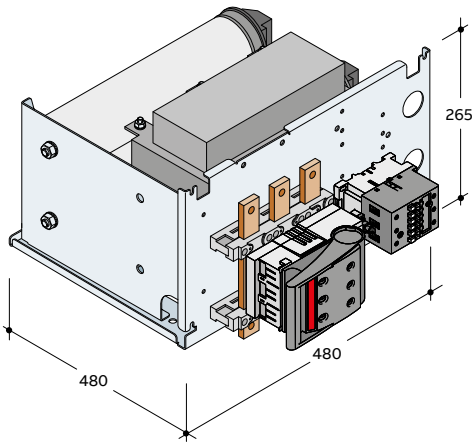
QCap power module offers a number of exceptional features like: high voltage withstand capability, excellent peak current handling capacity, high capacitance stability, long life even under high electrical stress, low losses, exceptional reliability and safety. More ratings and voltages available, please contact us.

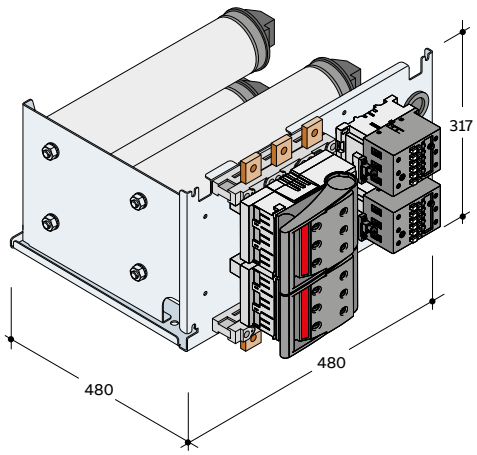
(1) U network is the nominal network voltage.

(2) Value of the reactor (if existing) connected in series with the capacitor.

(3) The net output power Q is the reactive power delivered to the network by both the capacitor and its detuning reactor (if existing) under nominal network voltage.

(4) Qc is the reactive power directly at capacitor terminals under nominal voltage (note: Qc ≥ Q due to reactor impact).





• Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

Capacitor bank application - Order codes



Power Factor Controller RVC & RVT

RVC controller - Accurate control and monitoring of capacitor banks

The RVC standard range of controllers can be used to control cos ϕ in industrial and commercial networks. Application examples include power factor control in buildings, mining steel industry, chemical, pulp and paper, cement, plastics, printing and food industries. The RVC operates at 100/440V - 50/60 Hz (automatic adjustment to voltage and network frequency). The RVC is available in 3, 6, 8, 10 and 12 outputs versions.back of the enclosures.

Description	Order code	Pkg/ No. pcs
RVC3 power factor controller programmable up to 3 outputs	2GCA294983A0050	1/1
RVC6 power factor controller programmable up to 6 outputs	2GCA294984A0050	1/1
RVC8 power factor controller programmable up to 8 outputs	2GCA294985A0050	1/1
RVC10 power factor controller programmable up to 10 outputs	2GCA294986A0050	1/1
RVC12 power factor controller programmable up to 12 outputs	2GCA294987A0050	1/1

Capacitor bank series is simple and easy to operate thanks to the automatic functions provided by the RVC controller:
- User-friendly interface
- Easy commissioning
- Complete automatic set-up
- Display of: Cos j , V, I, THDV, THDI
- Multiple built-in protections
- Not affected by harmonics
- Designed for hot environments (+60°C)
- Hardware and software switches
- Switching time between steps are programmable from 1s to 999s (independent of reactive load)
- Switching sequences are user defined
- Quick automatic disconnection in less than 20ms (50Hz) in case of power outage or voltage drop



RVT controller -The smart PFC for automatic capacitor bank

The RVT Touch Screen operates at 100/440V - 50/60 Hz (automatic Cos j adjustment to voltage and network frequency). Three phase model: RVT12-3P (for both balanced and unbalanced network) with 12 outputs.

Description	Order code	Pkg/ No. pcs
RVT6 Touch Screen power factor controller	2GCA291720A0050	1/1
RVT12 Touch Screen power factor controller	2GCA291721A0050	1/1
RVT12-3P Touch Screen power factor controller 3 phases	2GCA291722A0050	1/1

For enhanced functionality, ABB recommends its advanced RVT controller with the following features:
- Complete three-phase measurements of powers and harmonics
- Communication: Ethernet, USB, Modbus and Modbus TCP, complete graphical display, touchscreen
- Multi-language support
- Programmable warning/protection threshold
- Up to 8 temperature probes connections
- Real time clock

Options only for RVT

Description	Order code	Pkg/ No. pcs
Temperature probe (up to 8 connections with daisy chain)	2GCA291864A0050	1/1
IP 54 gasket	2GCA292040A0050	1/1
OPC Server Software	2GCA286141A0050	1/1
RS485 Modbus adapter	2GCA291880A0050	1/1
PQ LINK Software	2GCA292820A0050	1/1

• Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

Capacitor bank application - Declaration on thsted configuration and overall

Declaration on tested configuration and overall technical specificatio

Robust type tested design
Capacitor bank is considered as low voltage switchgear and needs to be verified by type tests and routine tests. The low-voltage System pro E power factor correction banks are type tested according to IEC 61921 and IEC61439-1. Particularly, the characteristics below are checked according to IEC61439 part 1 clause 10: Design verification:

- 10.10 Verification of temperature rise;
- 10.9 Dielectric properties;
- 10.11 Short-circuit withstand strength;
- 10.4 Clearances and creepage distances;
- 10.13 Mechanical operation;
- 10.3 Degree of protection;
- 10.5 Effectiveness of the protective circuit.

The Panelbuilder shall complete only routine tests. The routine tests shall be made on every assembly and are intended to detect faults in materials and workmanship. They shall be carried out on every new assembly after its construction, or on each transport unit (see IEC 61439-1 clause 11). Another routine test at the place of installation is not required. Routine tests include:
a) inspection of the assembly including inspection of wiring and, if necessary, an electrical operation test (see 7.3.1). See the relevant clauses of IEC 61439-1;
b) dielectric test (see 7.3.2). See the relevant clauses of IEC 61439-1;
c) checking of protective measures and of the electrical continuity of the protective circuit (see 7.3.3). See the relevant clauses of IEC 61439-1;
d) verification of insulation resistance (see 7.3.4). See the relevant clauses of IEC 61439-1.

These tests may be carried out in any order.

Technical specification

Working ambient temperature	-5°C (23°F)/+40°C (104°F) according to EN 61921
Connection	Three-phase, balanced network
Protection	IP23/IP54, protected against direct and accidental contact
Execution	Indoor
Ventilation	Forced air cooling
Power factor setting	From 0.7 inductive to 0.7 capacitive
Starting current setting (C/k)	From 0.01A to 3A for the RVC controller
	From 0.01A to 5A for the RVT controller
Operation	During operation, RVC (RVT) controller displays:
	- the number of active outputs
	- the inductive or capacitive power factor
	- the alarm conditions; target cos j, over/under voltage, THDV, over temperature
	- the demand for switching on/off a capacitor step
Losses at 400V 50 Hz	Without reactors: less than 1.5 Watt/kvar
	With reactors: less than 5.5 Watt/kvar
Capacitors QCap type	Dry type self-healing according to IEC 60831-1&2
	Dielectric: 2.15 Un between terminals during 10 sec at rated frequency
	Acceptable overvoltage: +10% max. (maximum 8h/day) as per IEC 60831-1
	Acceptable overcurrent: +30% permanently
	Temperature range: -25°C/+55°C (class D according to IEC 60831-1&2)
Reactors	Dry type resin embedded according to IEC 289, IEC 76
	Maximum harmonic pollution: 8% THDV with specific spectrum
Standards	IEC 61921, IEC 61439-1&2
	IEC 60831-1&2 (capacitors)
	CE marked

• Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

Capacitor bank - Technical specification

Technical characteristics of the components

Qcap capacitor technical specification

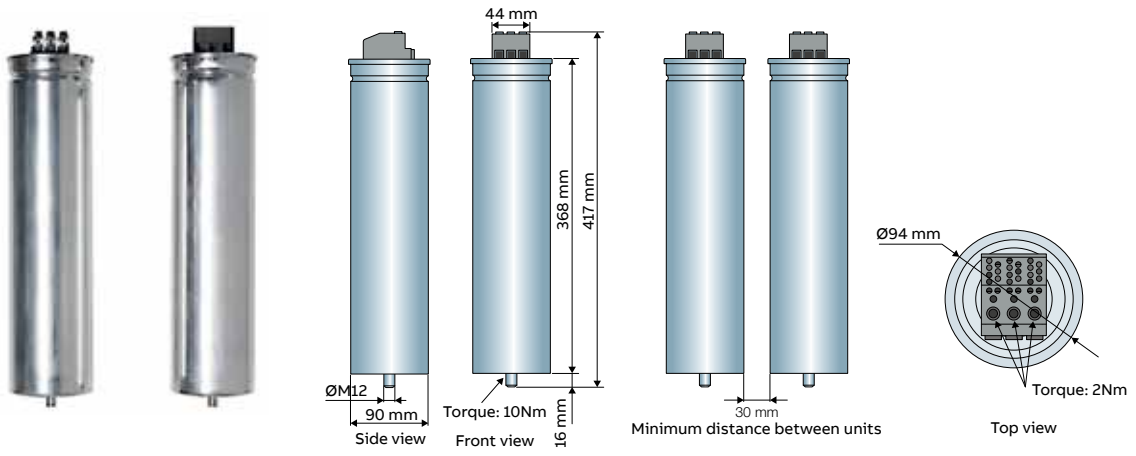
QCap is a cylindrical type capacitor. It is based on ABB's latest technologies and developments and is a result of more than a century's knowledge on electrical engineering and over 70 years of expertise on capacitor technologies.

Network voltage range	From 220 to 690 V.
Frequency	50 and 60 Hz
Connection	Three-phase
Net output power	From 2.5 to 30 kvar
Tolerance on capacitance	2.5-12.5 kvar (dieletric only)
	15-30 kvar: 0 % / + 10%
Losses	< 0.2 Watt/kvar (dielecrtic only)
	< 0.35 Watt/kvar (typical without discharge resistor)
	< 0.5 Watt/kvar (including discharge resistor)
Discharge resistor	Include. Discharge to 50 V in 1 minute
Maximum permissible current	1.3 x In for continuos operation
Tolerance on voltage	1.1 x Un for maximum 8 hours in every 24 hours (according to IEC 60831)
Case material	Recyclable aluminium
Color	Raw aluminium
Fixing	1 stud (M12). Recommended torque: 10 Nm
Dimensions (DxH)	90x417 mm
Weight	3 Kg
Terminals	Cage screws. Recommended torque: 2 Nm
Minimum distance above unit	20 mm
Minimum distance between capacitors	30 mm
Earth	Earth connection on the enclosure fixation
Execution	Indoor use only
Installation	Horizontal or vertical*
Temperature range	-25°C / +55°C (class D according to IEC 60831)
Altitude	Up to 2000 m without derating. For higher altitudes consult ABB.
Protection degree	IP20
Standards	CE and CSA (with US indicator complyng with UL810)

*In case of horizontal mounting, it is advised to add reinforcements to support the QCap in case of shock or vibrations during use. The same advice is applicable to transport conditions.

Dimensions

Total H	Can H	D	D fixation screw H	H fixation screw
401 mm	368 mm	90 mm	M12	16 mm



• Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

Capacitor bank - Technical specification

RVC power factor controller

Measuring system	Micro-processor system for balanced three-phase networks or sinle-phase networks.
Operating voltage	100V to 440V.
Voltage tolerance	±10% on indicated operating voltages.
Frequency range	50 or 60 Hz ±5% (automatic adjustments to network frequency).
Measurng circuit terminals (L2, L3 and k, l)	CAT III rated.
Current Input	1A or 5A (RSM)
Current Input impedance	<0.1 Ohm (recommended CT class 1.0, 10 VA min).
Consumption of the controller	8 VA max.
Output contact rating	Max. continuous current: 1.5A; Max. peak current: 5A. Max. voltage: 440 Vac. Terminal A is rated for a continuous current of 16A.
Alarm contact	Normally open contact. Max. continuous current: 5A. Rated/max. breaking voltage: 250Vac/440Vac.
Power factor setting	From 0.7 inductive to 0.7 capacitive.
Starting current setting (C/k)	0.01 to 3A. Automatic measurement of C/k.
Number of outputs	RCV-3: programmable up to 3 outputs - RCV-6: programmable up to 6 outputs RCV-8: programmable up to 8 outputs - RCV-10: programmable up to 10 outputs RCV-12: programmable up to 12 outputs
Switching time between step	Programmable from 1s tp 999s (independent of reactive load).
Switching sequences	Used defined
Mode of switching	The mode of switching for all the programmable switching sequences is integral, direct, circular or linear.
Saving-function	All programmed parameters and modes are saved in a non-volable memory.
Power outage release	Quick automatic disconnection in less than 20ms [50Hz] in case of power outage or voltage drop.
Power outage reset delay time	40 s.
Operating temperature	-10° C to 70° C.
Storage temperature	-30° C to 85° C.
Mounting position	Vertical panel mounting.
Dimensions	144x144x43 mm (hxwxd)
Cut-out dimensions	138x138 mm(hxw)
Weight	0.4 kg (unpacked)
Connector	Spring clamp terminal block
Front plate protection	IP43
Relative humidity	Maximum 95%, non condensing
Other features	Overvoltage and undervoltage protection. Autodaptation to the phase-rotation of the network and the CT terminals. Not affected by harmonics. working with generative and regenerative loads. LCD contrast automatically compensated with temperature.
Standards	CE marked.

6

• Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

Capacitor bank - Technical specification

RVT power factor controller

Measuring system	Micro-processor system for balanced three-phase/single-phase networks and unbalanced Individual phase power factor control is available.
Supply voltage	From 100Vac up to 460 Vac.
Consumption	15 VA max.
Connection type for measuring circuit and power supply	Phase-phase or phase-neutral for balanced and unbalanced network.
Voltage tolerance	±10% on indicated supply voltages.
Measurement category (according to IEC 61010-1)	CAT III.
Voltage measurement	Up to 690Vac or higher with voltage transformer.
Accuracy	±1% full scale.
Frequency range	45 to 65 Hz (automatic adjustments to network frequency).
Current input	5A or 1A (RMS) (class 1 C.T.).
Current input impedance	<0.1 Ohm.
Power outage release	Automatic disconnection of all capacitors in case of a power outage longer than 20ms.
Number of outputs	RVT6/RVT12 Base Model: programmable up to 6 or 12 outputs. RVT12-3P Three Phase Model: programmable up to 12 outputs.
Output contact rating	Max. continuous current: 1.5A (ac) – 0.3A (110V dc). Max. peak current: 5A. Max. voltage: 440 Vac. Terminal A-A are rated for a continuous current of 18A (9A/terminal).
Alarm contact rating (voltage free contact)	One normally closed contact and one normally open contact. Max. continuous current: 1.5A (ac). Rated voltage: 250Vac (max. breaking voltage: 440Vac).
Fan contact rating (voltage free contact)	Normally open contact. Max. continuous current: 1.5A (ac). Rated voltage: 250Vac (max. breaking voltage: 440Vac).
Power factor setting	From 0.7 inductive to 0.7 capacitive.
Starting current setting (C/k)	0.01 to 5A. Automatic measurement of C/k.
Switching sequences	1:1:1:1:1:….:1 - 1:2:2:2:2:…..:2 - 1:2:4:4:4:….:4 1:2:4:8:8: ….:8 - 1:1:2:2:2:….:2 - 1:1:2:4:4:…..:4 1:1:2:4:8:….:8 - 1:2:3:3:3:… .:3 - 1:2:3:6:6:….:6 1:1:2:3:3…..:3 - 1:1:2:3:6…..:6 and any other customer programmable sequence.
Modbus baud rate	300 - 600 - 1200 - 2400 - 4800 - 9600 - 19200 - 38400 – 57600 bps.
CAN connection	Support CAN 2.0B interface (for future use).
USB host connection	For future use.
USB device connection	Available
Temperature probe input connection	Only 2 contacts using 1-wire protocol. - Parasitic supply mode (no need of external power supply) - Connection to more nodes in a daisy chain network - 8 temperature probes connection - 8 meters maximum between RVT to temperature probe or between probes - 64 meters maximum length
Step configuration	Automatic, fixed, disabled.
Display	QVGA 320 x 240 pixels colorful touch-screen.
Adjustable display backlighting	Available
Switching time between steps	Programmable from 1s to 18h.

• Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

Capacitor bank - Technical specification

RVT power factor controller

Saving-function	All programmed parameters and modes are saved in a non-volatile memory.
Auto adaptation to the connection and phase-rotation of the network	
Auto adaptation to the CT-terminals	
Power Factor correction operation is insensitive to the presence of harmonics.	
Working with passive and regenerative loads (four-quadrant operation).	
Operating temperature	-20° C to 70° C.
Storage temperature	-30° C to 85° C.
Mounting position	Vertical panel mounting.
Dimensions	Front plate: 146 x 146 mm (h x w). Rear side: 205 x 135 mm. Overall: 146 x 211 x 67 mm (h x w x d). Cut out dimensions: 138 x 138 mm (h x w)
Weight	650 g (unpacked).
Connector	Cage clamp type (2.5mm2 single core cable).
Front plate protection	IP 43 (IP54: on request).
Relative humidity	Maximum 95%, non-condensing.
CE and UL marked	

Product line-up

Features	**RVT6/RVT12**	**RVT12 - 3P**
Article number	RVT-6 RVT-12	RVT-12-3P
1 / 3 phase measurements	1 voltage measurement input 1 current measurement input	
Real time clock	NO	YES
Energy measurements	NO	YES
Ethernet connection	NO	YES
USB host connection	NO	YES
USB device connection	YES	YES
Digital inputs	YES	YES
Alarm / fan relays	YES	YES
Output relays	6 or 12	12
Lock switch	YES	YES
RS485 Modbus connection	YES	YES
External temperature probes	YES	YES

6

• Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

Capacitor bank - Technical specification



De-tuning reactors technical specification

The ABB detuning reactor is state of the art reactor with highest specification requirement in terms of:

- Superior raw materials quality
- Superior manufacturing quality and quality control
- The smallest range of tolerance about electrical parameters
- Design to operate continuously at nominal power
- The largest reactor linearity in the market (avoid saturation)

More important, ABB design is for a network pollution of 8% THDV:

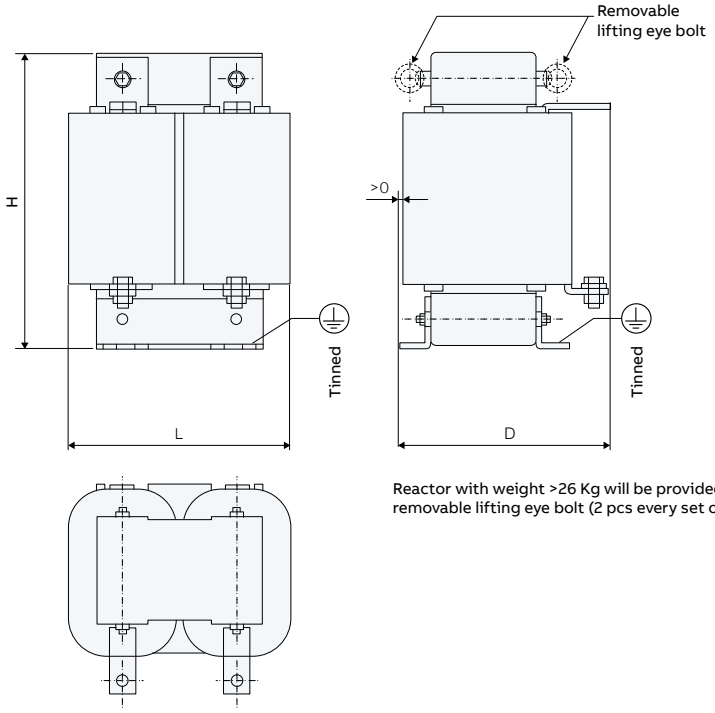
Network voltage spectrum: U3/U1=0.5%
U5/U1=6%
U7/U1=5%
U11/U1=3.5%
U13/U1=3%
But not exceeding a total THDU of 8%

Assuming the network voltage of 1.1 x Un for I1 and the maximum harmonic voltage spectrum as per above (at 1.0xUn)

Temperatures are defined as: Operational Tmin = -25 °C
Operational Tmax = 50 °C
Storage T min = -40 °C
Storage Tmax = 75 °C

Voltage	Qnet	Detuning reactor
400 V	6.25 kVAr	-
400 V	12.5 kVAr	-
400 V	25 kVAr	-
400 V	50 kVAr	-
400 V	6.25 kVAr	5,67%
400 V	12.5 kVAr	5,67%
400 V	25 kVAr	5,67%
400 V	50 kVAr	5,67%
400 V	6.25 kVAr	7%
400 V	12.5 kVAr	7%
400 V	25 kVAr	7%
400 V	50 kVAr	7%
400 V	6.25 kVAr	12,50%
400 V	12.5 kVAr	12,50%
400 V	25 kVAr	12,50%
400 V	50 kVAr	12,50%
400 V	25 kVAr	14%
400 V	50 kVAr	14%
415 V	6.25 kVAr	-
415 V	12.5 kVAr	-
415 V	25 kVAr	-
415 V	50 kVAr	-
415 V	12.5 kVAr	7%
415 V	25 kVAr	7%
415 V	50 kVAr	7%
440 V	12.5 kVAr	-
440 V	25 kVAr	-
440 V	50 kVAr	-
440 V	75 kVAr	-
440 V	12.5 kVAr	7%
440 V	50 kVAr	7%

Note: For plain capacitor banks, while not using UA-RA type contactor, it is usual to make cable turns (around 5 turns with 10cm diameter) in order to limit the Inrush current. The contactor informed is the minimum size needed to build the step. It is possible to use higher ratings as well.



Reactor with weight >26 Kg will be provided with removable lifting eye bolt (2 pcs every set ordered)

More ratings and voltages available, please contact us.

400V, 50Hz	Height - H	Lenght - L	Depth - D
Reactor 25 kvar 7%	205 mm	228 mm	140 mm
Reactor 50 kvar 7%	235 mm	264 mm	155 mm

• Technical details page **7**–1 • Overall dimensions page **8**–1

Dedicated solution

Capacitor bank - Technical specification

Technical aspects of the Power factor correction
Overstressing and overheating shorten the life of a capacitor, and therefore the operating conditions (that is temperature, voltage and current) should be strictly controlled. It should be noted that the introduction of a capacitance in a system might produce unsatisfactory
operating conditions (for example amplification of harmonics, self-excitation of machines, overvoltage due to switching, unsatisfactory working of audio-frequency remote-control apparatus, etc.).

The choice of components of an assembly shall be carried out with careful reference to compliance between their ambient air temperature category and that of the assembly itself.
It is important to note that power factor component equipment such as fuses, capacitors, reactors, etc. generate a significant amount of heat. It is important to ensure that adequate ventilation is provided in the operating room in order to maintain good air circulation around
the PFC unit.

The equipment needed for the automatic correction of power factor in an installation, including controller, fuses, switching devices, capacitors and reactors (chokes), can be installed as an integral part of the main switchboard.

The rated voltage of the PMOD capacitor unit shall be at least equal to the service voltage of the network to which the capacitor is to be connected, account being taken of the influence of the presence of the capacitor itself.

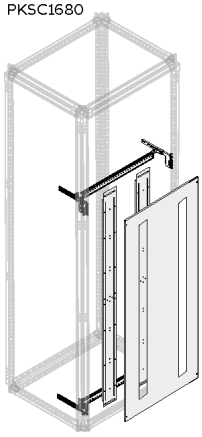
The connection of PFC (power factor correction) equipment onto a system containing harmonics may reduce the life of the PFC equipment. The damaging effects of harmonics can be mitigated by the use of a suitable detuning reactor in series with each capacitor
step.

• Technical details page **7**–1 • Overall dimensions page **8**–1

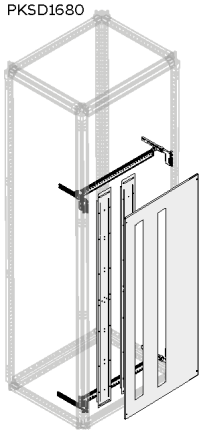
Dedicated solution

SmissLine - Order codes

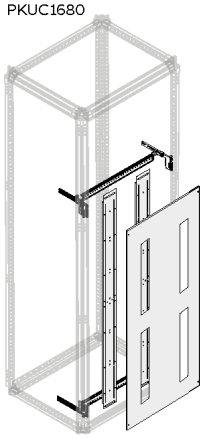
PKSC1660
PKSC1680



PKSD1680



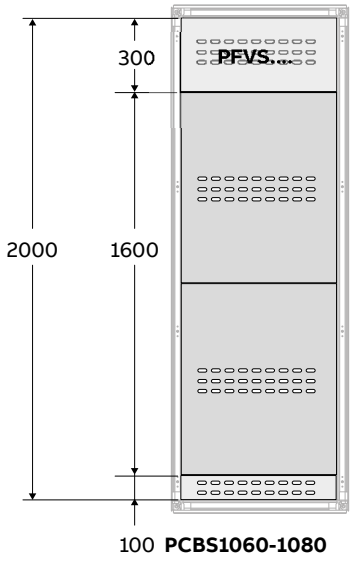
PKUC1680



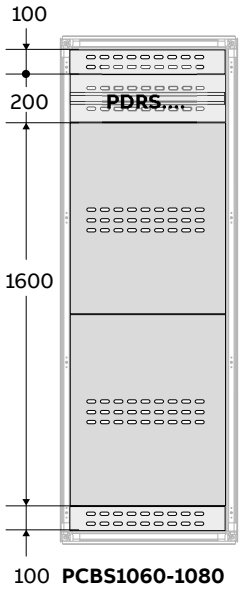
SmissLine

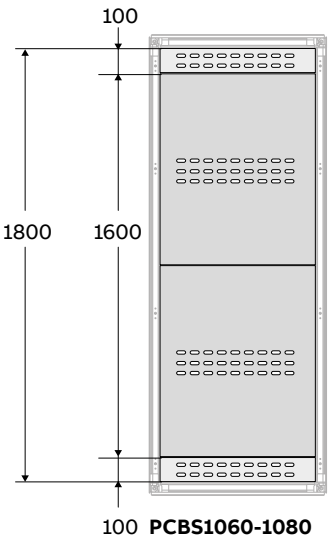
Descrizione	Dimensioni (mm) H	L	Tipo	Codice d'ordine	Conf./N. pezzi
Kit di montaggio + pannello centrato per SmissLine	1600	600	PKSC1660		1/1
Kit di montaggio + pannello centrato per SmissLine	1600	800	PKSC1680		1/1
Kit di montaggio + pannello decentrato per SmissLine	1600	800	PKSD1680		1/1
Kit di montaggio + pannello centrato per Unifix H	1600	800	PKUC1680		1/1
Segregazione posteriore per SmissLine/Unifix H	1600	600	PRSU1660		1/1
Segregazione posteriore per SmissLine/Unifix H	1600	800	PRSU1680		1/1

Unifix H



Din Rail





Chapter 7
Technical details and certifications

7–2 **According to IEC 61439-1/2**

7–11 **Anti-seismic withstand**

7–18 **Mechanical and electrical characteristics**

7–20 **Strength of the upright**

7–21 **Power dissipated**

7–26 **Handling**

7–32 **Declaration of conformity**

7–33 **Electrical continuity**

7–35 **Conductors**

7–36 **IP Protection classes**

7–38 **Mechanical shock resistance IK**

7–39 **Special paining**

7–40 **Examples of connections from vertical circuit-breaker to omnibus busbars**

7–42 **Examples of use of molded case circuit breakers**

7–43 **Examples of using the cable compartment**

7–44 **Ordinary and extraordinary maintenance plan**

7–48 **Connection examples - Unifix H**

7–49 **Connection examples - Unifix L**

7–50 **Configuration examples**

7–55 **Ventilation and air conditioning**

Technical details and certifications
According to IEC 61439-1/2

As from November 1st, 2014, the IEC 61439-1 and IEC 61439-2 Standards are to be used for the construction and specification of low voltage assemblies (e.g.: Power Centers and secondary distribution switchboards).

of low voltage assemblies (e.g.: Power Centers and secondary distribution switchboards).
IEC 61439-1 includes all the rules and general prescriptions applicable to the protective and switching assemblies in low voltage (LV assemblies).This Standard deals with the definitions and establishes service conditions, construction rules, technical characteristics and verification prescriptions for LV assemblies (U ≤ 1000 V a.c or U ≤ 1500 V d.c.). Part 1 cannot be used alone to specify an assembly or to determine its compliance with the Standard, but it has to be used together with the specific product Standard. For System pro E power, the specific product Standard is IEC 61439-2 that deals with “Power switchgear and controlgear assemblies” and is used for the assembly designation marking.
The whole of these two Standards identifies the design and testing requirements as regards the industrialization of the product and the tests to be performed to ensure its performances.

A significant change introduced by the IEC 61439 series has been the elimination of the distinction between type-tested assemblies (TTA) and partially type-tested assemblies (PTTA), replaced with the concept of design verification.
IEC 61439-1 defines as “design verification” a verification made on a sample of an assembly or on parts of assemblies to show that the design meets the requirements of the relevant assembly standard.

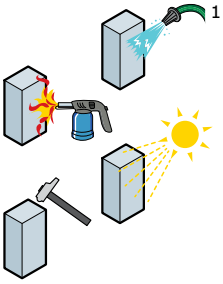
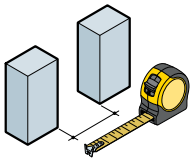
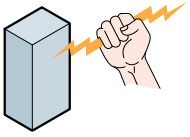
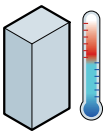
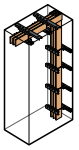
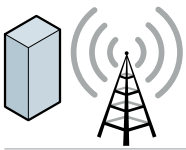
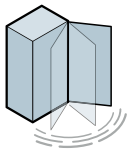
In particular, the Standard admits three different but equivalent methods to verify the compliance of the design with the Standard,
namely:

- verification by laboratory testing (previously defined type-tests and now verification tests); or
- verification by comparison with a tested reference design; or
- verification by assessment (verification through design rules, appropriate safety margins, calculation etc.).

The different characteristics (e.g.: temperature-rise, short-circuit withstand strength, insulation, degree of protection, etc.) can be verified using these three methods according to Annex D of the IEC 61439-1 (see Table 1) that prescribes , for each characteristics to be verified, which of the three verification options can be used.



Table 1 – List of design verifications to be performed.

	No.	Characteristic	Clauses or subclauses	Verification options available		
				Testing	Comparison with a reference design	Assessment
	1	Strength of material and parts:	10.2			
		Resistance to corrosion	10.2.2	YES	NO	NO
		Properties of insulating materials	10.2.3			
		Thermal stability	10.2.3.1	YES	NO	NO
		Resistance to abnormal heat and fire due to internal electric effects	10.2.3.2	YES	NO	YES
		Resistance to ultra-violet (UV) radiation	10.2.4	YES	NO	YES
		Lifting	10.2.5	YES	NO	NO
		Mechanical impact	10.2.6	YES	NO	NO
		Marking	10.2.7	YES	NO	NO
	2	Degree of protection of enclosures	10.3	YES	NO	YES
	3	Clearances	10.4	YES	NO	NO
	4	Creepage distances	10.4	YES	NO	NO
	5	Protection against electric shock and integrity of protective circuits:	10.5			
		Effective continuity between the exposed conductive parts of the assembly	10.5.2	YES	NO	NO
		and protective circuit	10.5.3	YES	YES	NO
	6	Incorporation of switching devices and components	10.6	NO	NO	YES
	7	Internal electrical circuits and connections	10.7	NO	NO	YES
	8	Terminals for external conductors	10.8	NO	NO	YES
	9	Dielectric properties:	10.9			
		Power-frequency withstand voltage	10.9.2	YES	NO	NO
		Impulse withstand voltage	10.9.3	YES	NO	YES
	10	Temperature-rise limits	10.10	YES	YES	YES
	11	Short-circuit withstand strength	10.11	YES	YES	NO
	12	Electromagnetic compatibility (EMC)	10.12	YES	NO	YES
	13	Mechanical operation	10.13	YES	NO	NO

For the end user, the method used is irrelevant, provided that the assembly design has been verified according to Table 1.



Technical details and certifications

According to IEC 61439-1/2

The Standard IEC 61439-1 defines the two roles of the “Original manufacturer” and the “ASSEMBLY manufacturer”.

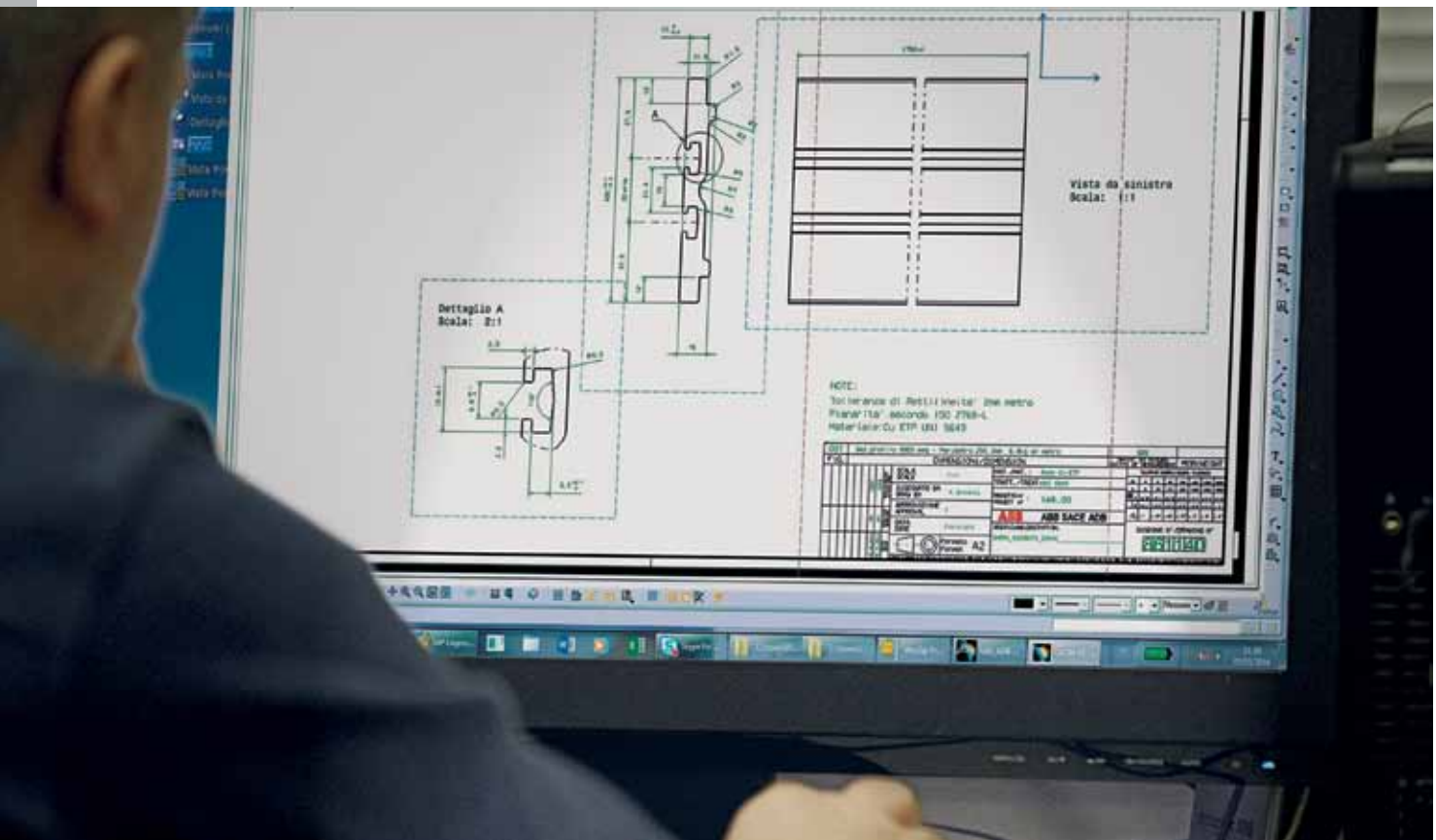
The “Original manufacturer” is the organization (e.g. ABB SACE) that has carried out the original design and the associated verification of an assembly, in accordance with the relevant assembly standard (IEC 61439-2 for System pro E power).

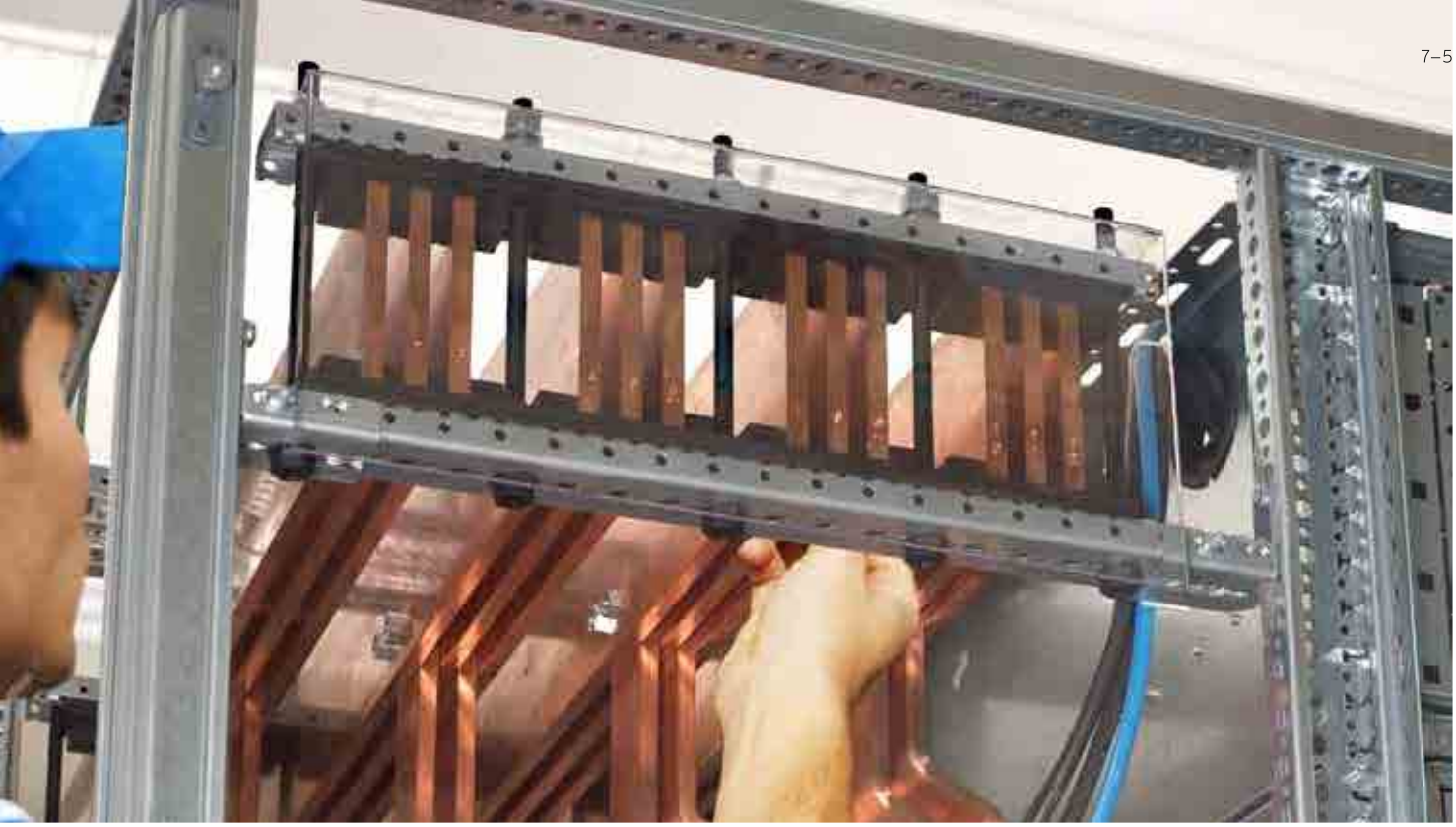
IBesides, in case mounting of the assembly is carried out by others, the Original manufacturer defines and publishes the instructions necessary to produce various assemblies.
The Original manufacturer designs and sets up a wide range of assembly configurations (the assembly system[1]), starting from a full and predefined range of components.

The assembly system is verified by the Original manufacturer in the most onerous representative configurations.

The Original manufacturer shall ensure the design verifications on the assembly system and provide the instructions for the selection of the components and for the mounting of the assembly.

[1] Assembly system: full range of mechanical and electrical components (enclosures, busbars, functional units, etc.), as defined by the original manufacturer, which can be assembled in accordance with the original manufacturer’s instructions in order to produce various ASSEMBLIES.





The “ASSEMBLY manufacturer” is the organization taking the responsibility for the completed assembly; The ASSEMBLY manufacturer may be a different organization to the original manufacturer.

The ASSEMBLY manufacturer (e.g.: the assembler/panel builder, the partner) puts together the assembly using spare parts/components and assembly kits, and, by following the instructions of the Original manufacturer, he obtains the final assembly complying with IEC 61439-2

The ASSEMBLY manufacturer shall carry out:

1) selection and assembling of the components according to the instructions provided by the Original manufacturer;

2) design verifications, through further tests or comparisons or assessments, in case of deviations from the instructions of the Original manufacturer;

3) routine verifications on any assembly realized. Hereunder the list of the routine verifications to be carried out by the “ASSEMBLY manufacturer”:

Characteristics relevant to construction:
- Degree of protection of enclosures;
- Clearances and creepage distances;
- Protection against electric shock and integrity of protective circuits;
- Installation of built-in components;
- Internal electrical circuits and connections;
- Terminals for external conductors;
- Mechanical operation.

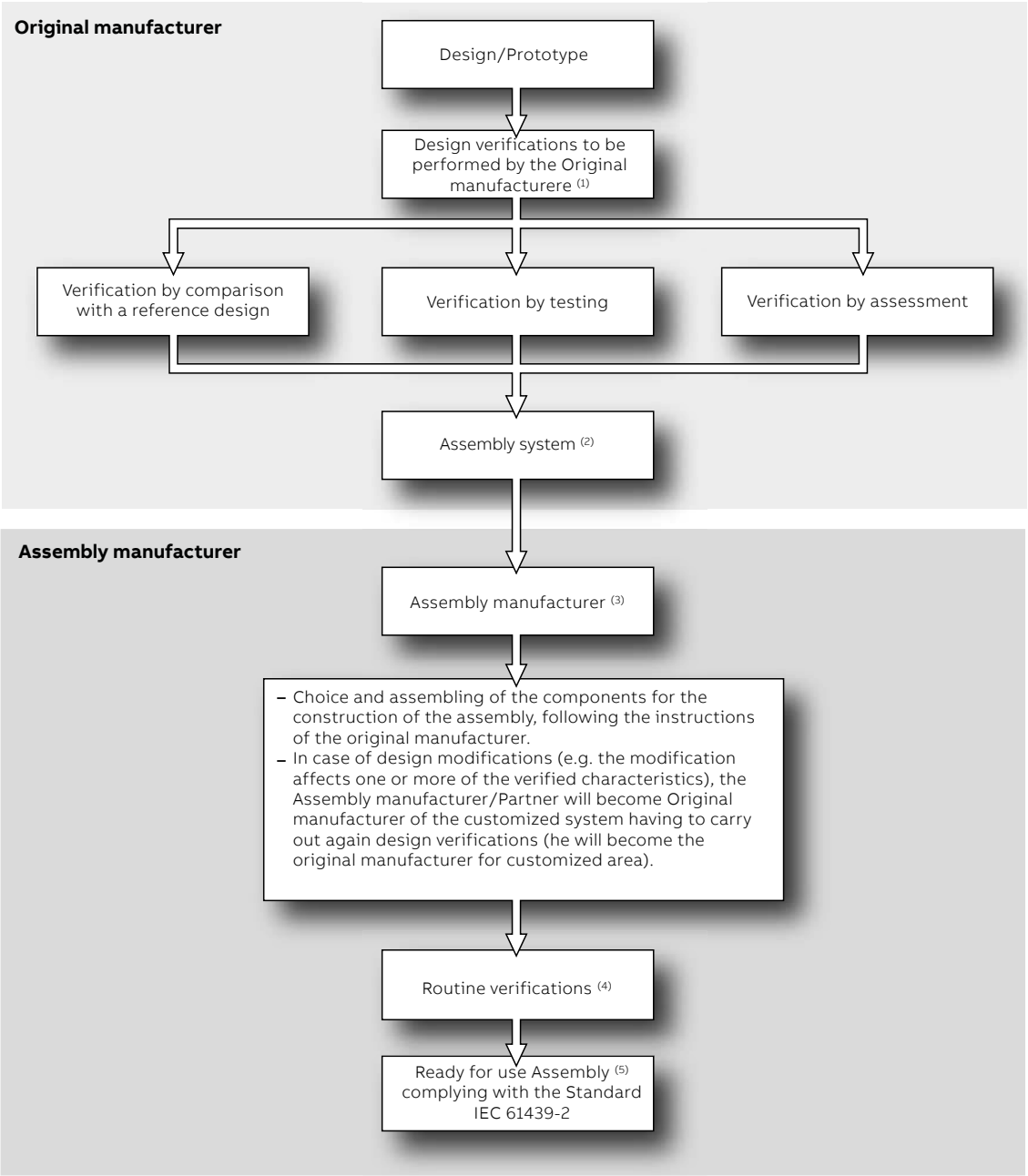
Characteristics relevant to performance:
- Dielectric properties;
- Wiring, operational performance and function

Technical details and certifications

According to IEC 61439-1/2

The main changes introduced by the series of Standards IEC 61439 can be summarized in the following flowchart:

Table 1



1) Original manufacturer: organization that has carried out the original design and the associated verification of an ASSEMBLY in accordance with the relevant ASSEMBLY standard
2) Assembly system: full range of mechanical and electrical components (enclosures, busbars, functional units, etc.), as defined by the original manufacturer, which can be assembled in accordance with the original manufacturer's instructions in order to produce various ASSEMBLIES
3) Assembly manufacturer: organization taking the responsibility for the completed ASSEMBLY; The ASSEMBLY manufacturer may be a different organization to the original manufacturer.
4) Routine verification: verification of each ASSEMBLY performed during and/or after manufacture to confirm whether it complies with the requirements of the relevant ASSEMBLY standard
5) Assembly: combination of one or more low-voltage switching devices together with associated control, measuring, signaling, protective, regulating equipment, with all the internal electrical and mechanical interconnections and structural parts

Technical details and certifications

According to IEC 61439-1/2

System pro E power, the 100% compliant solution with IEC 61439-1/2

System pro E power assemblies are subject at ABB laboratories to the testing prescribed by the Standards IEC 61439-1/2. The results of these verifications ensure the performances of System pro E power assemblies and relieve the ASSEMBLY manufacturer of the burden of carrying out further design verifications when ABB SACE structures, assembly kits, enclosures, busbars and devices are used following the selection criteria and mounting instructions of the Technical Catalogue and Instruction Handbook of System pro E power. Reference can be made to such results (summarized in Table 2) when drawing up the declaration of conformity of the assembly.

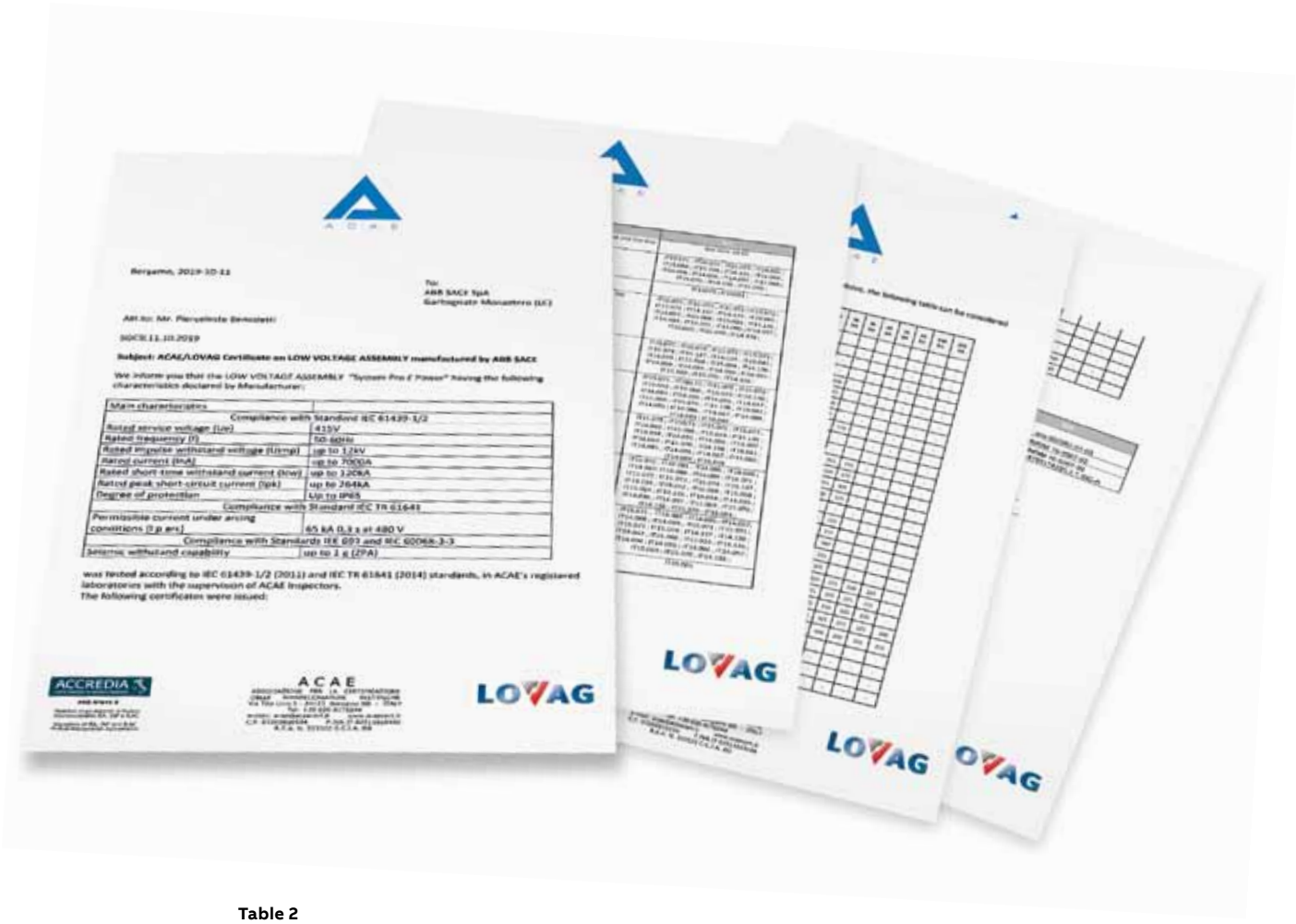


Table 2

Characteristic	Section	Standard Rule/Rating	Verification method	Test report/Certificate No.
Resistance to corrosion	10.2.2	Severity test A for indoor assemblies/ enclosures	Test	SGCSL11.10.2019
Thermal stability	10.2.3.1	Test for enclosures manufactured from insulating material.	Not required	Not required
Resistance to abnormal heat and fire due to internal electric effects	10.2.3.2	The Original manufacturer shall provide data on the suitability of materials from the insulating material supplier	Assessment	SGCSL11.10.2019
Resistance to ultra-violet (UV) radiation	10.2.4	Only for enclosures and external parts of assemblies for outdoor installation	Not required	Not required

Technical details and certifications

According to IEC 61439-1/2

Characteristic	Section	Standard Rule/Rating	Verification method	Test report/Certificate No.
Lifting	10.2.5	The maximum number of sections, allowed by the Original manufacturer to be lifted together, shall be equipped with components and/or weights to achieve a weight of 1.25 times its maximum shipping weight.	Test	SGCSL11.10.2019
Mechanical impact	10.2.6	- IK9 (glass door) - IK10 (blind door)	Test	SGCSL11.10.2019
Marking	10.2.7	The ASSEMBLY manufacturer shall provide each ASSEMBLY with one or more labels, marked in a durable manner and located in a place such that they are visible and legible when the ASSEMBLY is installed and in operation. Compliance is checked according to the test of 10.2.7 and by inspection.	Test	ASSEMBLY manufacturer
Degree of protection of enclosures	10.3	IP30 (without doors) IP40 (with doors) IP31/41 (with roof accessories) IP65 (with IP65 doors and panels) Verification by assessment is possible when an empty enclosure in accordance with IEC 62208 is used, and no external modification has been carried out that may result in a deterioration of the degree of protection.	Test	SGCSL11.10.2019
Clearances	10.4	Insulation clearances are guaranteed when the assembly instructions provided with the ABB SACE structures, busbars and devices are complied with Minimum clearances ≥ 14mm@12kV	Test	SGCSL11.10.2019

Technical details and certifications

According to IEC 61439-1/2

Characteristic	Section	Standard Rule/Rating	Verification method	Test report/Certificate No.
Creepage distances	10.4	Minimum creepage distances ≥ 14 mm (pollution degree 3 and material group II)	Test	SGCSL11.10.2019
Effective continuity between the exposed conductive parts of the ASSEMBLY and the protective circuit	10.5.2	The exposed conductive parts are electrically connected with the main protective conductor; the maximum resistance value allowed for the protective circuit is ≤ 0.1 Ω.	Test	SGCSL11.10.2019
Short-circuit withstand strength of the protective circuit	10.5.3	According to the standard (at least 60% of three-phase short circuit current): up to 72 kA (1s).	Test	SGCSL11.10.2019
Incorporation of switching devices and components	10.6	Compliance with the design requirements in section 8.5 for the incorporation of switching devices and components.	Assessment by inspection	ASSEMBLY manufacturer must observe the Original Manufacturer´s instructions of the assembly system and switching devices and components.
Internal electrical circuits and connections	10.7	Compliance with the design requirements in section 8.6 for internal electrical circuits and connections	Assessment by inspection	The original parts/components must be assembled according to the original manufacturer´s instructions.
Terminals for external conductors	10.8	Compliance with the design requirements in section 8.8 for terminals for external conductors.	Assessment by inspection	The original parts/components must be assembled according to the original manufacturer´s instructions.
Power-frequency withstand voltage	10.9.2	According to Table 8/9 of IEC 61439-1: Ui up to 1000 Vac/1500 Vdc	Test	SGCSL11.10.2019
Impulse withstand voltage	10.9.3	According to Table 10 of IEC 61439-1: Uimp = 12 kV/8 k	Test	SGCSL11.10.2019
Temperature-rise limits	10.10	Verification by test Rated current InA up to 6300 A InA max = 7000 A (main busbars)	Test	SGCSL11.10.2019

Technical details and certifications

According to IEC 61439-1/2

Characteristic	Section	Standard Rule/Rating	Verification method	Test report/Certificate No.
Short-circuit withstand strength	10.11	Verification by test: Icw line to line: up to 100 kA for 1s Icw line to line: up to 120 kA for 1s (main busbars) Icw line to neutral: up to 72 kA (1s) Ipk max: 264 kA Verification by comparison with the reference design: Icw line to line: 69 kA for 3s (main busbars)	Test	SGCSL11.10.2019
Electromagnetic compatibility (EMC)	10.12	Ambient condition A and B Ambient condition A and B No EMC test if the incorporated devices and components are in compliance with the requirements for EMC as required by the relevant product Standard and the internal installation and wiring is carried out in accordance with the devices and components manufacturer's instructions.	Verification by assessment	Not required
Mechanical operation	10.13	The movable parts of System pro E power (e.g. hinges for doors and panels) have been tested through 200 operating cycles. This verification test shall not be made on such devices (e.g. withdrawable circuitbreaker) of the ASSEMBLY when they have already been type-tested according to their relevant product Standard unless their mechanical operation has been modified by their mounting.	Test	SGCSL11.10.2019

The document and certificates can be downloaded at the following link:

http://www.abb.com/abblibrary/downloadcenter/

Lovag Acae Certificate on LOW VOLTAGE ASSEMBLY manufactured by ABB SACE - SGCSL11.10.2019

Technical details and certifications
Anti-seismic withstand

1. Introduction

Anti-seismic is an important thematic which is proper implemented in ABB by testing product solutions that meet the growing security demands and requirements from different markets. For System pro E power, ABB guarantees a seismic resistance in standard version without additional reinforcement elements up to 0.69g and with reinforcement kit up to 0.75g.

2. Reference rules

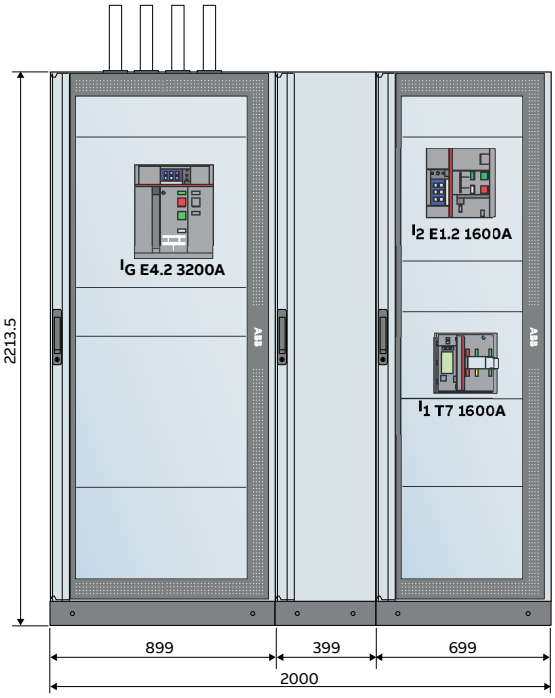
The reference rules adopted are:
- IEC 60068-3-3 Environmental testing - Part 3: Guidance. Seismic test methods for equipment;
- IEC 60068-2-6 Environmental testing - Part 2-6: Tests - Test Fc: Vibration (sinusoidal);
- IEC 60068-2-57 Environmental testing - Part 2-57: Tests - Test Ff: Vibration - Time-history method;
- IEC 60068-2-59 Environmental testing - Part 2: Tests. Test Fe: Vibration - Sine-beat method;
- IEC 60068-2-47 Environmental testing - Part 2-47: Test - Mounting of specimens for vibration, impact and similar dynamic tests;
- IEEE Std 693-2005 IEEE Recommended Practice for Seismic Design of Substations;
- Required response spectra applicable to “YATAY” and “DIKEY” sites (Turkey).

In order to meet the anti-seismic requirements, ABB offers a seismic qualification, in accordance with CEI EN 62271-207, which determine the total withstand capability of the switchgear assemblies in case of seismic stresses, combining results obtained by test, algebraically results and other service loads.

3. Seismic qualification

To determine the seismic qualification, 10 different configurations were seismic tested, using two different laboratories, CESI (Centro Elettronico Sperimentale Italiano), an Italian company founded in 1956, which deals with tests and certifications of electromechanical and electrical systems and Virlab, an Engineering laboratory that provides seismic test in Asteasu, Spain. The data on which the certification is based are the following ones:
- Certified solutions. In particular the certified configurations are System pro E power Top Busbar System – 3200 A up to 0.69g;
- System pro E power Top Busbar System – 3200 A with anti-seismic kit up to 0.75 g.

The front side of TBBS enclosure is represented in the picture below:



This is representative for all possible configurations: the test have been performed with an internal overall load of almost 2110 kg.

The adopted configurations are the ones that our R&D technicians identify as the most critical, due to the presence of plastic tie-rods and, due to the reduced withstand current (Icw), the distance between the busbar holders is increased, which contribute to decrease the resistance in case of seismic events.

Technical details and certifications

Anti-seismic withstand

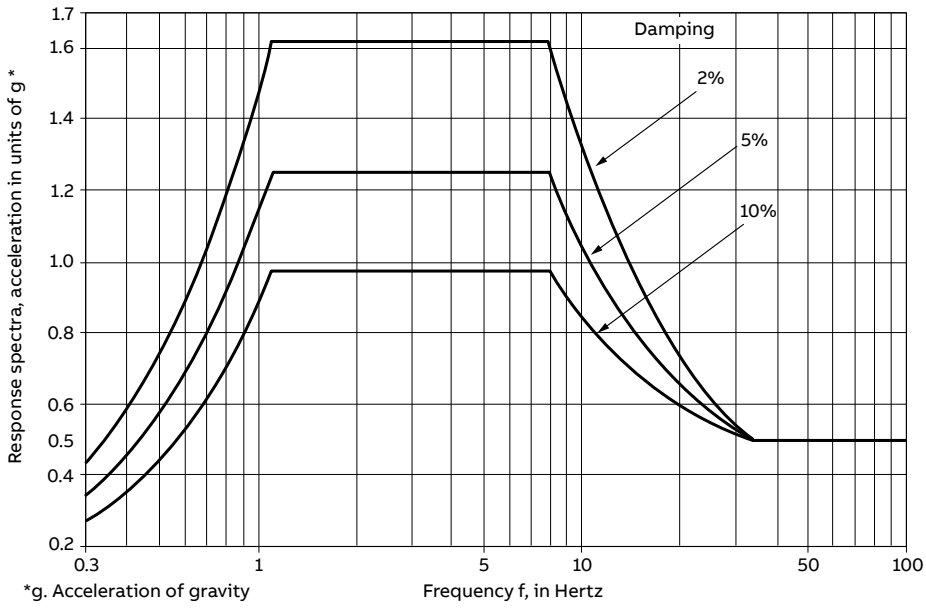
The test was performed according to the following criteria:

- Historical data on passed ArTu K and IS2 tests.
- FEM Analysis, made during design phase, by creating the structure solid, assuming loads that follow the utilization and fixing proper constraints, it was simulated the deformation on the structure. Also few comparative analysis were performed, such as System pro E power vs. ArTu K, System pro E power vs. Triline and System pro E power vs. major competitors. The purpose of the work is to perform a stress analysis in different electrical panels. The effort and displacement evaluation has to be comparable between the different geometries at the same load conditions.
- Vibration tests. These are different from a seismic event because they are predictable events in a given range, instead the antiseismic events are unavoidable, non-constant and do not have a precise range. Vibrations can last for hours or be a constant condition; seismic event is a short, impulsive event.
- Customer test data, followed by ABB as external consultants.
- Traction, compression and torsion tests.
- Lifting tests, with ACAE-LOVAG presidia. All lifting tests are performed without paneling (minus 30 % of rigidity without the addition of the external panels and door), with an additional load of 25% (guaranteeing the structure with an additional margin).
- In addition to seismic and vibration tests, System Pro E Power, in glass door version, has passed the internal-arc test at 65 kA @ 480 V (0.3 s) in conformity with TR61641 (criteria 1-5). In addition, the frame has the capability to resist to a short circuit up to 150 kA for 1 s in conformity to the rule CEI EN 61439-2, in both the TBS and RBBS versions. These induced accelerations are much higher of those of a seismic event (current up to 330000 A that pass through the structure) that cause mechanical stresses higher than seismic events.

4. Anti-seismic tests

It has been used the reference of IEE 693-1997 rule, by utilizing the response spectra with a 2% damping, the most critical curve.

The accelerometers were positioned in the most critical points, at the top of the structure, close to the switches and close to the bars.

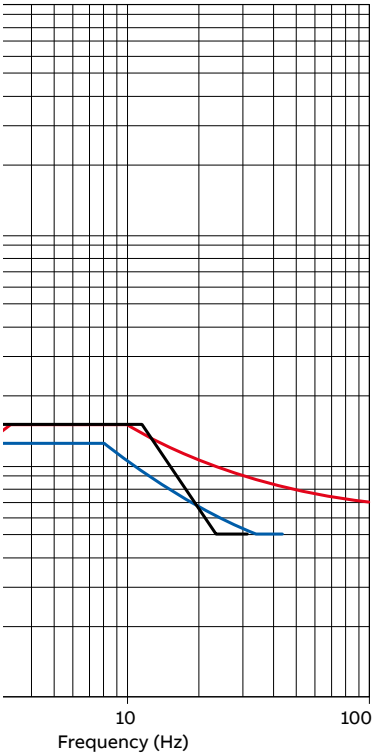


Technical details and certifications

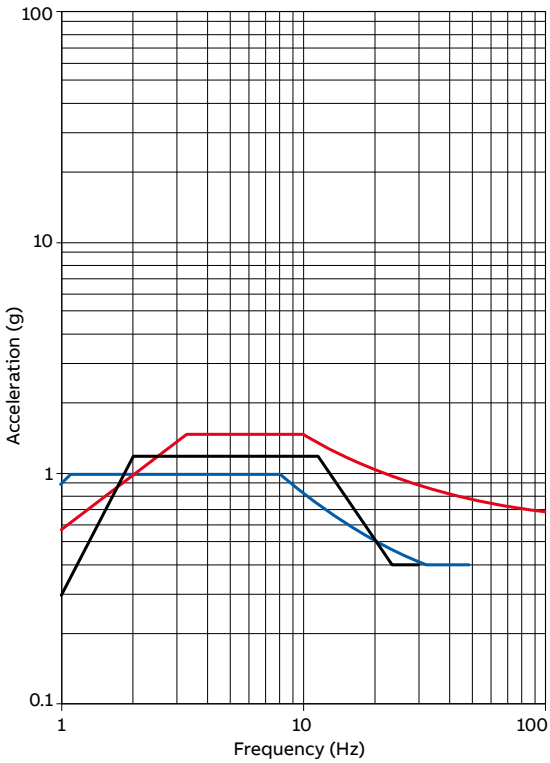
Anti-seismic withstand

It has been guaranteed in a standard configuration the resistance to a shock level up to 0.5 g, as represented in the picture below:

S2 Horizontal (5% damping)



S2 Vertical (5% damping)



3
68-2-57

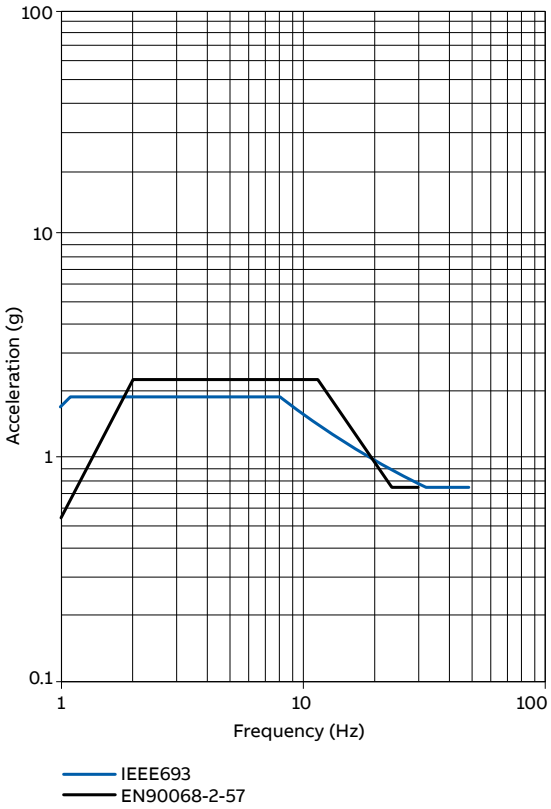
The horizontal ZPA (Zero Period acceleration) 0.69 g. is highter than the corresponding to the AG5 "Ground Acceleration Reference" defined in Table 3 of point 8.2.4 of European standard EN 60068-3-3, value calculated, as it is described in point 8.2.7 of the referred standard, as follows:

Technical details and certifications

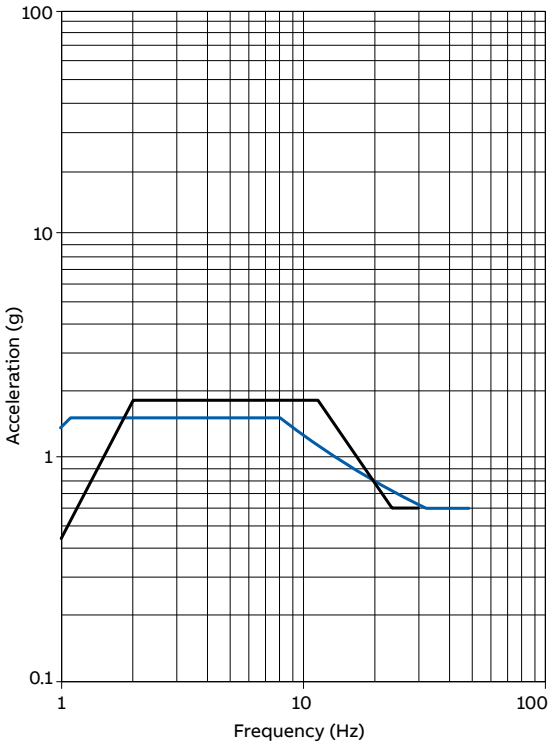
Anti-seismic withstand

In addition, by installing anti-seismic kit, it has been guaranteed the resistance to a shock level up to 0.75 g, as represented in the picture below:

S2 Horizontal (0.75 g ZPA; 5% damping)



S2 Vertical (0.6 g ZPA; 5% damping)



After the seismic event in the defined limits and conditions, it is guaranteed:

- No collapse of the structure.
- Operation of the switchboard after the earthquake.
- Maintaining of the mechanical characteristics, IP and IK.

The results are confirmed by looking to the resonance final and initial benchmarking, which assess that no structural failures occur during tests.

	RESONANCE (Hz) (Amplification)		
POINT NUMBER	**Initial (Test Number 1)**	**Final (Test Number 18)**	**Frequancy Variation**
2 (Close to the center of gravity)	5.44 / (4.5) 23.81 / (2.5)	4.50 / (4.9) 24.00 / (2.5)	–17.28 % 0.80 %
3 (Close to the vertical BUS)	5.34 / (4.6)	4.50 / (4.8)	–15.73 %
4 (On the top left corner)	5.53 / (7.6)	4.59 / (8.3)	–17.00 %

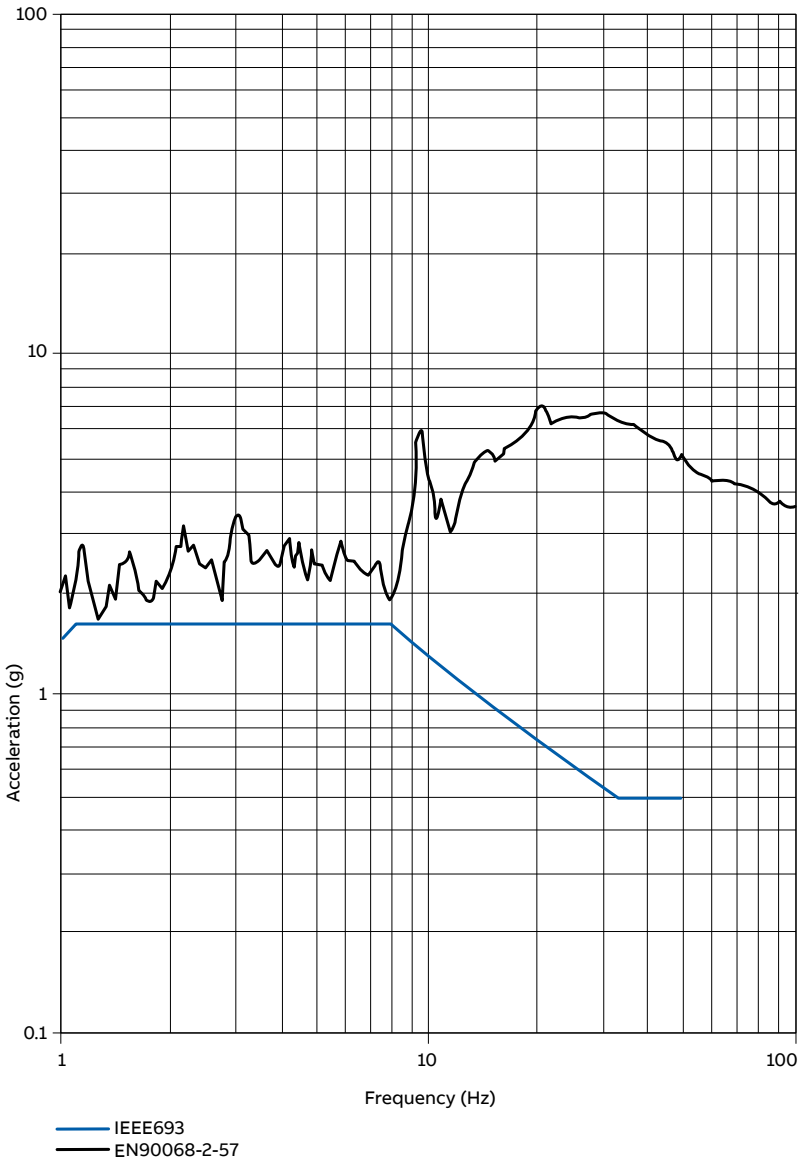
	RESONANCE (Hz) (Amplification)		
POINT NUMBER	**Initial (Test Number 2)**	**Final (Test Number 19)**	**Frequancy Variation**
2 (Close to the center of gravity)	3.94 / (5.2)	3.19 / (5.3)	–19.04 %
3 (Close to the vertical BUS)	3.84 / (3.8)	3.09 / (3.8)	–19.53 %
4 (On the top left corner)	3.94 / (8.8)	3.19 / (8.7)	–19.04 %

Technical details and certifications

Anti-seismic withstand

In order to obtain these results, ABB has performed tests with more difficult conditions. In the picture below, it is clearly visible that the test response spectrum is higher than the 0.5g thresholds.

Test Response Specrum (TRS)
S2 Horizontal - 2%
IEEE Std. 693-2005 "High Required Specrum", 0.5 g.

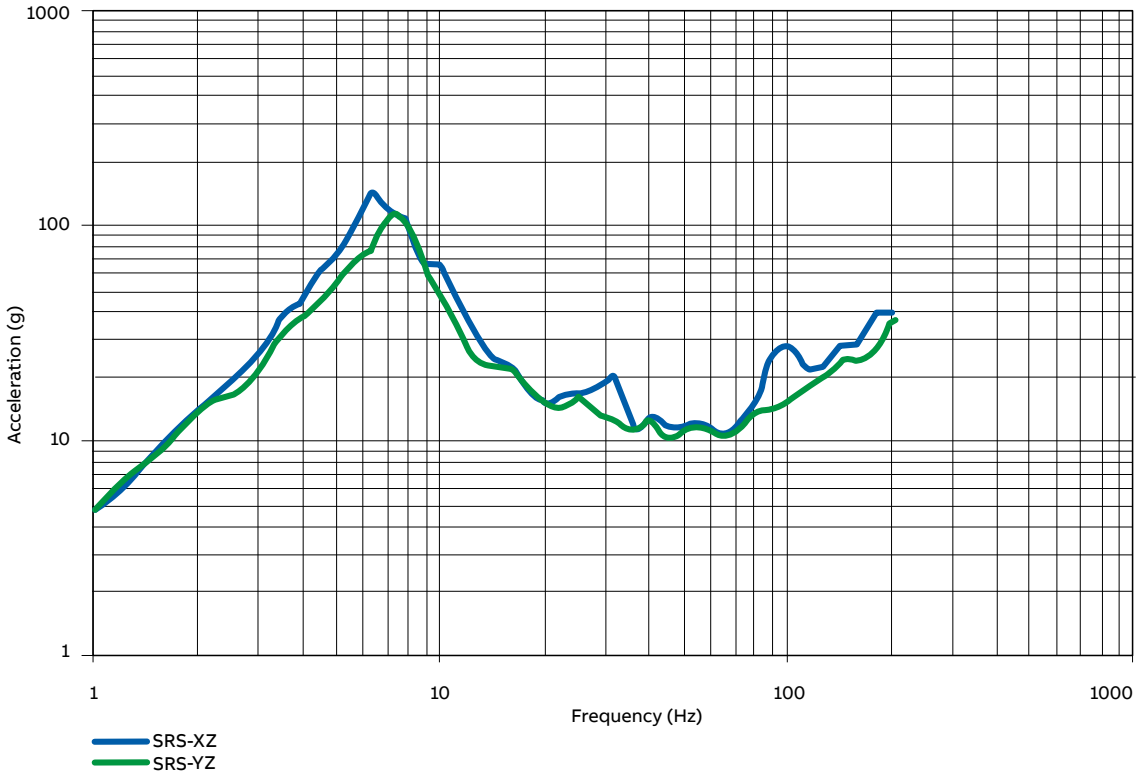


The anti-seismic tests on the structure are combined with the ones performed on the breakers. As visible on the below picture, the accelerations tested on breakers are higher than the ones tested on the SPEP. This is because, in case of an earthquake, the breaker is subject of the vibration of the building and simultaneously of the enclosure.

Technical details and certifications

Anti-seismic withstand

Specified Response Spectrum (SRS) (5%)
Envelope (points 2 to 5 and 7 of report 152322 and points 2 to 9 of report 152323)
Level S2 Horizontal Direction



By having significantly higher ZPA tested, it is possible to guarantee the operation of the switchboard during and after a seismic event.

5. Suggestions

Some suggestions are provided in order to increase the capability of the switchboard to withstand to a seismic event:

- It is better to distribute the weight at the bottom of the switchboard.
- Tighten the structure, by segregating it or by increasing the number of busbar holders.
- Fixing of floor structure with M12 class 8.8 screws.
- Avoid fixing the frame to the wall, possibly keeping a distance of 600mm to avoid the “hammer” effect during the earthquake, if there is no space make sure the wall is structured for fastening.
- Give maintenance instructions, for example after a seismic event of 0.5g check the tightening torques.
- Busways can compromise stability.
- If it is possible, it is better to reduce height dimension of the enclosure.
- Two structures side by side carry more than a single one.
- The lifting bar strengths the structure.
- If you have a cable feed, expect an additional length in the cables

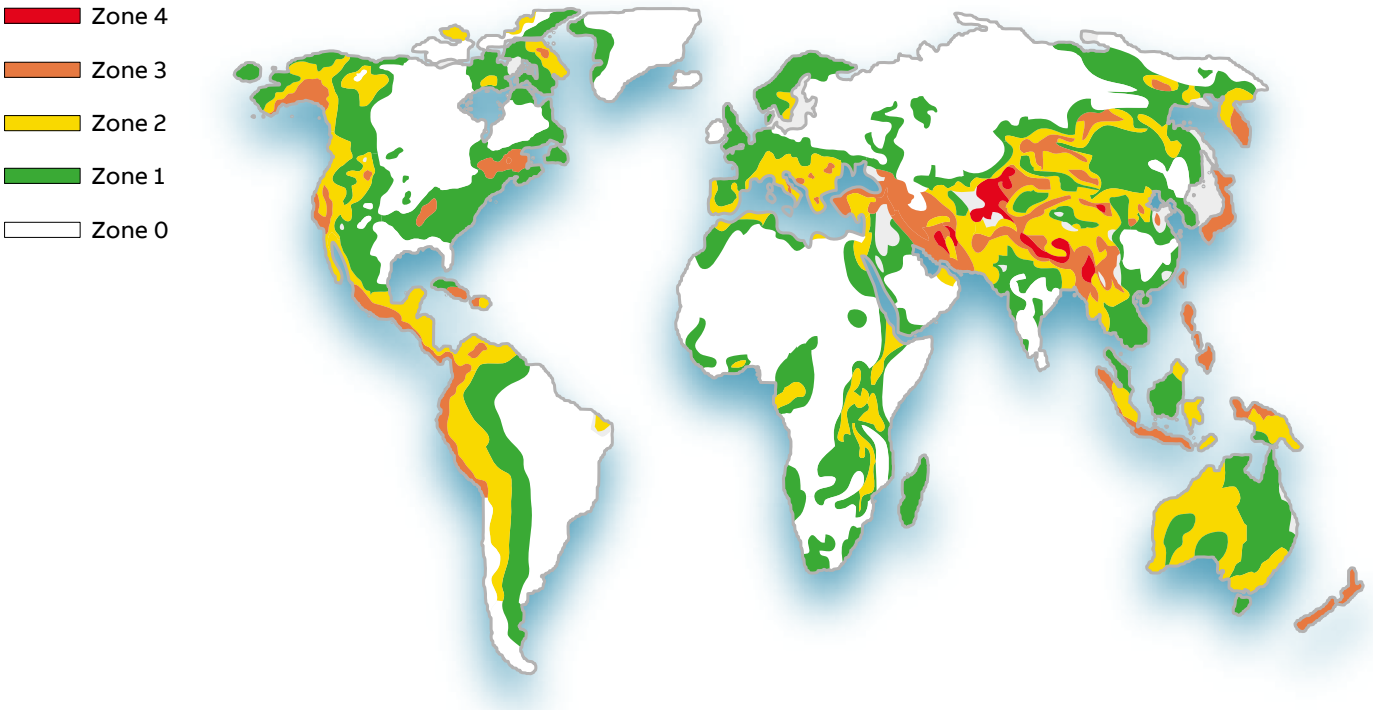
Technical details and certifications

Anti-seismic withstand

6. Results

The seismic zones around the World are represented in the picture below:

Seismic zones around the world



Below, the comparison table between the IEC 68-3-3 seismic zones, the Richter scale, the Mercalli scale, and the acceleration value.

Seismic Zone IEC 68-3-3		Scale of Richter Magnitude	Scale of Mercalli Magnitude	Phenomena	Maximum acceleration (g)	Freed energy (J)
System pro E power range		9	XII	Exceptiolally catastrophic	1.53	$>10^{17}$
AG5	4	8	XI	Catastrophic	1.02	
			X	Very destructive	0.51-1.02	
		7	IX	Destructive	0.2-0.5	10^{14}- $5x10^{15}$
			VIII	Damaging	0.12-0.2	
AG3	3	6	VII	Very strong		
	2	5	VI	Strong		10^{11}- $5x10^{12}$
			V	Fairly strong		
AG2	1	4	IV	Not strong		
	0	3	III	Weak		10^{8} - $5x10^{9}$
			II	Very weak		
		2	I	Registred by instrument		$5x10^{6}$- 10^{8}
		1				$<5x10^{6}$

Technical details and certifications
Mechanical and electrical characteristics

Conformity to Standard IEC 61439-1-2

System pro E power switchboards are subjected in the ABB laboratories, to the type tests established by Standard IEC 61439-1-2.
The results of these tests guarantee the performance of System pro E power switchboards and when ABB SACE structures, air circuitbreakers, moulded-case and modular circuit-breakers are used, relieve the end manufacturer of the switchboard from having to perform further type tests so long as he/it complies with the selection criteria and assembly instructions for the various different components.
Reference can be made to these results, described below, when drawing up the declaration of conformity of the switchboard.

Overtemperature (Ref. sect. 9.2. of the Standard)

Values from the type tests performed referring to all System pro E - Power switchboard sizes and to the type of installation are given in the tables.
The dissipated power data (in Watts) depend on the allowable overtemperature inside the upper part of the switchboard and should be compared with the sum of the powers dissipated by all the components installed in the switchboard (also taking the coincidence factor into due account).

Dielectric properties (Ref. sect. 10.9. of the Standard)		
Rated service voltage (Ue)		up to up to 690V AC
Rated insulation voltage (Ui)		up to 1000V AC / 1500V DC
Rated impulse withstand voltage (Uimp)		8kV / 12kV
Short-circuit withstand capacity (Ref. sect. 10.11. of the Standard)		
Rated short-time short-circuit current:	line-to-line	120kA (1s) 69kA (3s)
	line-to-neutral	72kA (1s)
Rated max. peak short-circuit current		264kA
Protection against the circuit and short-circuit withstand (Ref. sect. 9.3. of the Standard)		
Rated admissible short-time withstand current Icw for the protection circuit		72kA (1s)
Insulation clearances (Ref. sect. 10.4. of the Standard)		
Insulation clearances are guaranteed when the assembly instructions provided with the ABB SACE structures and circuit-breakers are complied with.		
Mechanical operation (Ref. sect. 10.13. of the Standard)		
When the assembly instructions of the ABB SACE structures are circuit-breakers are complied with, mechanical operation can be considered as verified.		

Protection class (Ref. sect. 10.3 of the Standard)							
Protection class obtained with respect to the type of panelling	**Front sealing profiles**	**Door**	**Rear**	**Side panels**	**Top**	**Bottom**	**Top profile**
Blind							
IP30	✓ *	-	✓ *	✓ *	✓ *	✓ *	-
IP31	✓ *	-	✓ *	✓ *	✓ *	✓ *	✓ *
IP40	-	✓ *	✓ *	✓ *	✓ *	✓ *	-
IP41	-	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *
IP65	-	✓	✓	✓	✓	✓	-
Vented							
IP30	✓ *	-	✓ **	✓ **	✓ *	✓ *	-
IP31	✓ *	-	✓ **	✓ **	✓ *	✓ *	✓ *
IP40	-	✓ *	✓ ***	✓ ***	✓ *	✓ *	-
IP41	-	✓ *	✓ ***	✓ ***	✓ *	✓ *	✓ *

* Codes in the catalogue allowing IP30-IP31 protection class to be obtained for structures without doors, IP40-IP41 for structures with doors. The structures change from IP30 to IP31 if the top sealing kits are used in addition to the front sealing profiles. The structures change from IP40 to IP41 if the top sealing kits are used in addition to the doors.
** Codes in the catalogue for vented panels allowing IP30-31 protection class to be obtained for structures without doors. The structures change from IP30 to IP31 if the top sealing kits are used in addition to the front sealing profiles.
*** Codes in the catalogue for vented panels allowing IP30-31 protection class to be obtained for structures without doors. The structures change from IP30 to IP40 adding the door and the grates for vented panel. The structures change from IP30 to IP31 if the top sealing kits are used in addition to the front sealing profiles. The structures change from IP40 to IP41 if the top sealing kits are used in **addition to the doors.**

Technical details and certifications

Mechanical and electrical characteristics

Mechanical specifications

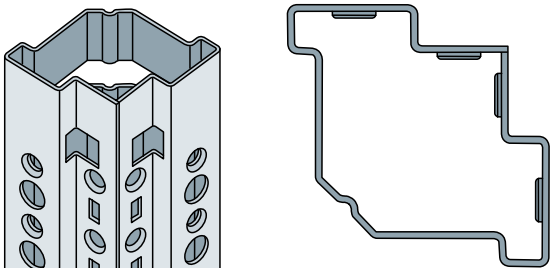
Material		
Uprights and cross-pieces	12/10mm hot-dip galvanized sheet steel (for In < 4000A)	
	12/10mm AISI 304 stainless steel (for In>4000A)	
Plinth angle pieces	25/10mm hot-dip galvanized sheet steel	
Plinth flanges	15/10mm hot-dip galvanized sheet steel	
External panels	pickled steel sheet thickness 8/10mm for IP30/40 and 15/10 for IP65	
Doors	15/10mm thick pickled sheet steel. 4mm thick toughened glass glued from the inside	
Plates	15/10mm hot-dip galvanized sheet steel	
Panels	12/10mm pickled steel sheet	
Partitions	plastic components: thermoplastic vulcanizate metal components: 15/10mm pickled steel sheet	
Paint coating		
Structure colour	RAL 7035 grey orange peel finish	
Plinth colour	RAL 7012 grey orange peel finish	
Standard cycle	The sheet metal is cleaned	
	Phosphating, based on iron salts	
	Drying in a tunnel at 100°C	
	External and internal coating with electrostatic application of thermosetting powder coating with epoxy-polyester binders, RAL 7035 colour orange peel finish, total thickness 60/70 microns.	
	Curing in an oven 180°C	
Coating characteristics	Binder:	epoxy-polyester
	Specific gravity:	1.61g/cm3
	Theoretic yield:	10.4m²/kg with film an average 60 microns thick
	Melting point:	85-95 °C (Kofler bench method)
	Particle size:	standard distribution between 5 and 100 microns with 30 to 40 micron average particle size. Setting: 12 min x 190 °C (temperature of object).
	Hardness:	1H - 2H
	DIN 53152 bending elasticity:	unaltered on 1/4” mandrel
	DIN 53151 cross-hatch adhesion:	GT O (100%)
	Erichem elasticity:	SEN DIN 53156: > 6mm
	Gardner inpact resistance:	25 kg x cm.

Tests performed on degreased and phosphatized metal plates with 60/70 micron film thickness.
The paint coating passed the saline mist resistance tests (193 hours).

Environmental characteristics		
Type of installation	indoor	
Installation conditions	on floor	
Climatic conditions (t°/Rh%)	constant	23°C/83% - 40°C/93%
	variable	23°C/98% - 40°C/98%
Ambient temperature limits	for operation	-5°C +40°C Normal usage conditions (Ref. sect. 7.1 of the Standard IEC 61439-1-2)
	for stOrange	-25°C +55°C

Technical details and certifications
Strength of the upright

The upright of the pro E power system has the great advantage of being formed by a closed profile. It is made from hot-dip galvanized 12/10 thick sheet or plate or from 12/10 thick AISI 304 stainless steel and features 13 laser-welded folds.



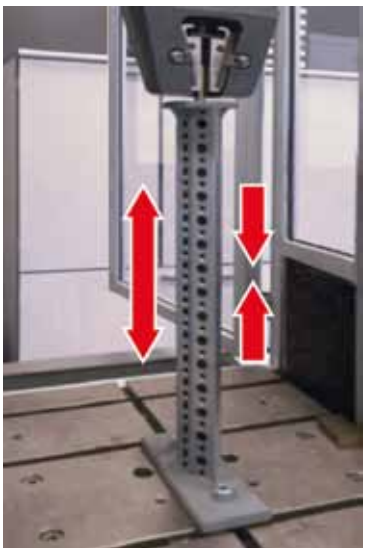
The main advantages are:

- Minimum footprint (47.5mm x 47.5mm);
- Minimum thickness (12/10);
- Two different surface levels on the same side of the upright, allowing different components to be fixed;
- DIN Standards: 25 mm center-distance between holes in any direction, on both the width and depth of the upright.

a. Test

Several tests have been performed using different tensile and compression cycles under different loads. In detail:

- Tensile test;
- Compression test;
- Torsion test



The torsion tests were conducted using 100 Nm tightening torque applied by a torque wrench.



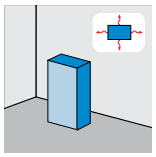
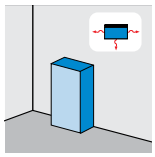
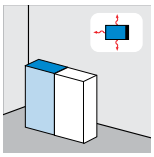
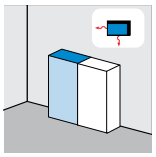
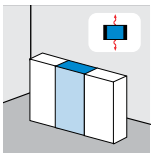
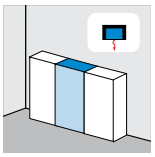
b.Results

The following results were obtained from the tests:

Test #	Configuration	Load (Tensile and compression)	Number of cycles
1	System pro E power upright (closed profile thickness 12/10)	3000N	3
2	System pro E power upright (closed profile thickness 12/10)	7000N	3
3	System pro E power upright (closed profile thickness 12/10)	12000N	3
4	System pro E power upright (closed profile thickness 12/10)	25000N	3
5	System pro E power upright (closed profile thickness 12/10)	49000N	-

Technical details and certifications
Power dissipated

System pro E power IP31

		Separate enclosure exposed on all sides				Separate enclosure for assembly on a wall				First and last enclosures exposed				First and last enclosures for assembly on wall				Central enclosure exposed				Central enclosure for assembly on a wall			
																									
		Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)			
W (mm)	D (mm)	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C
Structures H = 1800mm with blind panels																									
400	**200**	223	280	338	400	208	258	314	371	208	262	315	374	187	234	281	332	193	246	296	350	170	215	260	310
400	**300**	257	322	389	460	242	301	366	433	237	298	359	425	216	270	324	383	217	276	332	393	194	245	297	353
400	**500**	290	364	440	520	276	344	418	494	265	333	402	476	244	305	367	434	240	305	367	435	218	274	333	395
400	**700**	371	461	560	668	349	440	535	622	329	410	495	588	300	377	457	539	297	370	455	536	273	343	415	491
400	**900**	445	553	672	802	419	528	642	746	395	492	594	706	360	452	548	647	356	444	546	643	328	412	498	589
600	**200**	285	357	433	511	259	324	393	464	268	336	407	481	237	297	359	424	255	320	387	457	223	279	338	400
600	**300**	328	412	499	589	302	378	458	541	306	383	464	549	273	342	414	489	286	359	434	513	254	319	386	456
600	**500**	371	466	564	666	344	432	523	617	343	430	521	616	309	387	469	553	316	397	481	568	285	358	434	512
600	**700**	428	537	651	769	426	535	648	765	407	511	619	731	388	486	589	695	384	481	583	688	352	442	535	632
600	**900**	514	644	781	923	511	642	778	918	488	613	743	877	466	583	707	834	461	577	700	826	422	530	642	758
800	**200**	356	446	540	638	319	400	484	572	339	425	515	608	296	371	449	530	327	410	496	586	283	355	430	508
800	**300**	390	489	592	699	367	461	558	659	374	469	568	671	339	425	514	607	365	458	554	654	321	403	488	577
800	**500**	423	531	643	759	415	521	631	745	408	512	621	733	381	478	579	684	402	505	611	722	359	451	546	645
800	**700**	489	614	743	877	478	599	726	857	463	581	703	830	450	564	683	807	454	570	690	815	434	544	659	778
800	**900**	587	737	892	1052	574	719	871	1028	556	697	844	996	540	677	820	968	545	684	828	978	521	653	791	934
1000	**900**	683	824	961	1098	670	812	968	1123	651	793	945	1102	632	776	927	1086	638	780	930	1089	612	757	913	1070
1250	**900**	799	964	1124	1285	784	950	1133	1314	762	928	1106	1289	739	908	1085	1271	746	913	1088	1274	716	886	1068	1252
Structures H = 2000mm with blind panels																									
400	**200**	242	304	368	435	224	268	337	399	223	280	339	399	200	251	304	359	209	260	316	377	183	230	278	329
400	**300**	277	349	422	498	261	314	393	465	254	318	385	454	203	289	350	413	234	291	354	422	208	262	316	374
400	**500**	312	393	476	561	297	360	448	530	284	356	431	508	260	327	395	467	258	322	392	466	233	293	354	419
400	**700**	393	495	598	705	378	475	577	680	356	444	538	636	306	386	469	550	319	397	480	565	291	365	442	525
400	**900**	472	594	718	846	454	570	692	816	427	533	646	763	367	463	563	660	383	476	576	678	349	438	530	630
600	**200**	304	382	463	546	277	347	420	496	287	360	436	514	253	317	384	454	273	342	415	489	237	298	360	426
600	**300**	343	431	522	616	324	406	491	580	327	410	497	586	292	384	444	524	307	384	466	549	271	340	411	486
600	**500**	382	479	581	685	370	464	562	663	367	460	557	658	331	451	503	594	340	426	516	609	304	381	462	545
600	**700**	441	554	671	792	435	546	662	781	416	522	632	746	408	512	620	732	406	509	617	728	373	468	566	669
600	**900**	529	665	805	950	522	655	794	937	499	626	758	895	490	614	744	878	487	611	740	874	448	562	679	803
800	**200**	368	462	559	660	340	427	517	610	362	454	550	650	315	395	479	565	349	437	530	625	301	378	458	541
800	**300**	402	504	611	721	381	479	580	684	390	489	592	700	359	450	546	644	381	433	579	684	341	428	518	612
800	**500**	436	546	662	781	422	530	642	758	417	524	634	749	402	505	612	722	413	519	628	742	380	477	578	682
800	**700**	512	643	778	919	494	620	751	887	480	602	729	861	461	578	701	827	466	585	709	837	451	566	685	809
800	**900**	614	772	934	1103	593	744	901	1064	576	722	875	1033	553	694	841	992	559	702	851	1004	541	679	822	971
1000	**900**	721	864	1022	1198	700	858	1023	1184	681	833	987	1145	659	799	947	1100	670	814	967	1123	653	792	938	1092
1250	**900**	844	1011	1196	1402	819	1004	1197	1385	797	975	1155	1340	771	935	1108	1287	784	952	1131	1314	764	927	1097	1278

Power dissipated inside System pro E power switchboards on the basis of the admissible overtemperature.
Δt = difference between the temperature inside the enclosure and ambient temperature.

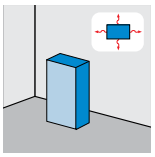
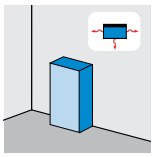
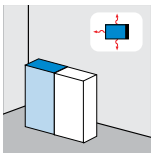
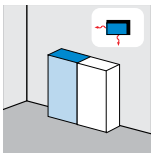
Example
Enclosure IP31 H=1800mm, W=400mm, D=200mm espo-sed on all sides

Temperature inside the enclosure (t)	**°C**	**70 –**
Ambient temperature (t)	°C	35 =
Δt	**°C**	**35**
Maximum power dissipated	**(W)**	**338**

Technical details and certifications

Power dissipated

System pro E power IP30/31

		Separate enclosure exposed on all sides				Separate enclosure for assembly on a wall				First and last enclosures exposed				First and last enclosures for assembly on wall			
																	
		Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)			
W (mm)	D (mm)	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C
Structures H = 1800mm with ventilated panels																	
600	**500**	571	737	914	1102	541	698	866	1044	428	552	685	826	406	524	650	784
600	**700**	737	951	1180	1422	712	919	1140	1374	552	713	884	1066	518	668	829	999
800	**500**	649	837	1038	1252	611	788	978	1179	502	648	804	969	460	593	736	887
800	**700**	836	1079	1339	1613	787	1016	1261	1519	625	806	1000	1205	595	768	953	1149
1000	**900**	1295	1606	1926	2235	1147	1444	1750	2074	914	1146	1401	1666	818	1035	1266	1516
1250	**900**	1450	1799	2157	2503	1273	1603	1943	2302	1024	1284	1569	1866	908	1149	1405	1683
Structures H = 2000mm with ventilated panels																	
600	**500**	586	756	938	1131	546	705	874	1131	434	560	695	838	407	525	651	785
600	**700**	741	956	1186	1429	715	923	1145	1380	560	723	897	1081	527	680	843	1016
800	**500**	654	844	1047	1261	623	804	997	1202	507	654	811	978	468	604	749	903
800	**700**	861	1112	1379	1662	792	1022	1268	1528	640	826	1024	1234	596	769	955	1151
1000	**900**	1333	1655	1983	2301	1154	1452	1759	2086	935	1176	1434	1706	820	1036	1263	1520
1250	**900**	1493	1854	2221	2577	1281	1612	1952	2315	1047	1317	1606	1911	910	1150	1402	1687

Power dissipated inside System pro E power switchboards on the basis of the admissible overtemperature.
Δt = difference between the temperature inside the enclosure and ambient temperature.

Example

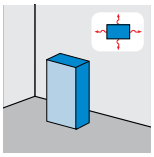
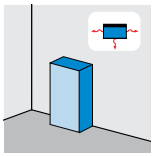
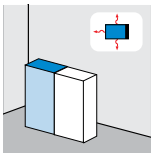
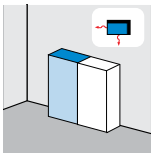
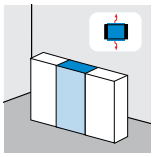
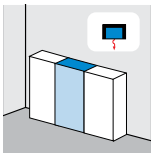
Enclosure IP31 H=2000mm, W=600mm, D=700mm esposed on all sides

Temperature inside the enclosure (t)	**°C**	**70 –**
Ambient temperature (t)	°C	35 =
Δt	**°C**	**35**
Maximum power dissipated	**(W)**	**1186**

Technical details and certifications

Power dissipated

System pro E power IP40/41

		Separate enclosure exposed on all sides				Separate enclosure for assembly on a wall				First and last enclosures exposed				First and last enclosures for assembly on wall				Central enclosure exposed				Central enclosure for assembly on a wall			
																									
		Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)			
W (mm)	D (mm)	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C
Structures H = 1800mm with blind panels																									
400	**200**	223	280	338	400	208	258	314	371	208	262	315	374	187	234	281	332	193	246	296	350	170	215	260	310
400	**300**	257	322	389	460	242	301	366	433	237	298	359	425	216	270	324	383	217	276	332	393	194	245	297	353
400	**500**	290	364	440	520	398	514	637	768	265	333	402	476	304	392	486	586	240	305	367	435	218	274	333	395
400	**700**	371	461	560	668	544	703	872	1051	329	410	495	588	382	493	612	738	297	370	455	536	273	343	415	491
400	**900**	445	553	672	802	725	937	1163	1401	395	492	594	706	449	580	720	868	356	444	546	643	328	412	498	589
600	**200**	285	357	433	511	259	324	393	464	268	336	407	481	237	297	359	424	255	320	387	457	223	279	338	400
600	**300**	328	412	499	589	302	378	458	541	306	383	464	549	273	342	414	489	286	359	434	513	254	319	386	456
600	**500**	371	466	564	666	462	596	739	891	343	430	521	616	350	451	560	674	316	397	481	568	285	358	434	512
600	**700**	428	537	651	769	627	809	1004	1210	407	511	619	731	438	565	701	845	384	481	583	688	352	442	535	632
600	**900**	514	644	781	923	836	1079	1339	1613	488	613	743	877	515	665	825	994	461	577	700	826	422	530	642	758
800	**200**	356	446	540	638	319	400	484	572	339	425	515	608	296	371	449	530	327	410	496	586	283	355	430	508
800	**300**	390	489	592	699	367	461	558	659	374	469	568	671	339	425	514	607	365	458	554	654	321	403	488	577
800	**500**	423	531	643	759	525	678	841	1013	408	512	621	733	405	523	648	781	402	505	611	722	359	451	546	645
800	**700**	489	614	743	877	689	889	1103	1329	463	581	703	830	473	661	819	988	454	570	690	815	434	544	659	778
800	**900**	587	737	892	1052	919	1185	1471	1772	556	697	844	996	556	778	964	1162	545	684	828	978	521	653	791	934
1000	**900**	683	824	961	1098	1072	1338	1634	1935	651	793	945	1102	650	891	1089	1303	638	780	930	1089	612	757	913	1070
1250	**900**	799	964	1124	1285	1190	1485	1814	2148	762	928	1106	1289	722	989	1209	1446	746	913	1088	1274	716	886	1068	1252
Structures H = 2000mm with blind panels																									
400	**200**	242	304	368	435	224	268	337	399	223	280	339	399	200	251	304	359	209	260	316	377	183	230	278	329
400	**300**	277	349	422	498	261	314	393	465	254	318	385	454	203	289	350	413	234	291	354	422	208	262	316	374
400	**500**	312	393	476	561	403	519	644	777	284	356	431	508	309	398	492	591	258	322	392	466	233	293	354	419
400	**700**	393	495	598	705	547	706	876	1056	356	444	538	636	389	498	617	743	319	397	480	565	291	365	442	525
400	**900**	472	594	718	846	729	941	1168	1408	427	533	646	763	458	586	726	874	383	476	576	678	349	438	530	630
600	**200**	304	382	463	546	277	347	420	496	287	360	436	514	253	317	384	454	273	342	415	489	237	298	360	426
600	**300**	343	431	522	616	324	406	491	580	327	410	497	586	292	384	444	524	307	384	466	549	271	340	411	486
600	**500**	382	479	581	685	466	602	747	900	367	460	557	658	353	456	565	681	340	426	516	609	304	381	462	545
600	**700**	441	554	671	792	632	815	1011	1219	416	522	632	746	448	578	717	864	406	509	617	728	373	468	566	669
600	**900**	529	665	805	950	843	1087	1348	1625	499	626	758	895	527	680	844	1016	487	611	740	874	448	562	679	803
800	**200**	368	462	559	660	340	427	517	610	362	454	550	650	315	395	479	565	349	437	530	625	301	378	458	541
800	**300**	402	504	611	721	381	479	580	684	390	489	592	700	359	450	546	644	381	433	579	684	341	428	518	612
800	**500**	436	546	662	781	536	692	859	1035	417	524	634	749	410	528	656	790	413	519	628	742	380	477	578	682
800	**700**	512	643	778	919	701	905	1123	1353	480	602	729	861	510	658	816	983	466	585	709	837	451	566	685	809
800	**900**	614	772	934	1103	935	1207	1497	1804	576	722	875	1033	600	774	960	1156	559	702	851	1004	541	679	822	971
1000	**900**	721	864	1022	1198	1103	1391	1699	1998	681	833	987	1145	714	891	1080	1281	670	814	967	1123	653	792	938	1092
1250	**900**	844	1011	1196	1402	1224	1544	1886	2218	797	975	1155	1340	793	989	1199	1422	784	952	1131	1314	764	927	1097	1278

Power dissipated inside System pro E power switchboards on the basis of the admissible overtemperature.
Δt = difference between the temperature inside the enclosure and ambient temperature.

Example

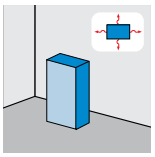
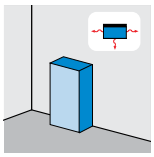
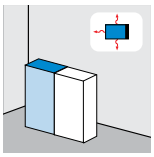
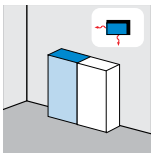
Enclosure IP31 H=1800mm, W=600mm, D=900mm esposed on all sides

Temperature inside the enclosure (t)	**°C**	**70 –**
Ambient temperature (t)	°C	35 =
Δt	**°C**	**35**
Maximum power dissipated	**(W)**	**781**

Technical details and certifications

Power dissipated

System pro E power IP40/41

		Separate enclosure exposed on all sides				Separate enclosure for assembly on a wall				First and last enclosures exposed				First and last enclosures for assembly on wall			
																	
		Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)			
W (mm)	D (mm)	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C
Structures H = 1800mm with ventilated panels																	
400	**500**	418	539	669	806	398	514	637	768	317	409	507	611	304	392	486	586
400	**700**	562	725	899	1084	544	703	872	1051	395	509	632	761	382	493	612	738
400	**900**	749	967	1199	1445	725	937	1163	1401	494	636	790	951	449	580	720	868
600	**500**	489	631	783	944	462	596	739	891	376	485	602	725	350	451	560	674
600	**700**	651	840	1042	1256	627	809	1004	1210	471	608	754	909	438	565	701	845
600	**900**	868	1120	1389	1675	836	1079	1339	1613	589	760	943	1136	515	665	825	994
800	**500**	560	723	897	1081	525	678	841	1013	438	565	700	844	405	523	648	781
800	**700**	733	946	1174	1415	689	889	1103	1329	524	676	838	1010	473	661	819	988
800	**900**	977	1261	1565	1887	919	1185	1471	1772	655	845	1048	1263	556	778	964	1162
1000	**900**	1135	1408	1688	1962	1072	1338	1634	1935	766	960	1173	1397	650	891	1089	1303
1250	**900**	1271	1577	1891	2197	1190	1485	1814	2148	858	1075	1314	1565	722	989	1209	1446
Structures H = 2000mm with ventilated panels																	
400	**500**	422	543	671	809	403	519	644	777	320	413	511	615	309	398	492	591
400	**700**	567	732	908	1094	547	706	876	1056	398	514	635	765	389	498	617	743
400	**900**	756	976	1211	1459	729	941	1168	1408	498	643	794	956	458	586	726	874
600	**500**	503	649	805	970	466	602	747	900	379	489	607	732	353	456	565	681
600	**700**	657	847	1051	1267	632	815	1011	1219	477	616	764	921	448	578	717	864
600	**900**	876	1129	1401	1689	843	1087	1348	1625	596	770	955	1151	527	680	844	1016
800	**500**	566	731	907	1093	536	692	859	1035	440	568	705	850	410	528	656	790
800	**700**	764	985	1222	1474	701	905	1123	1353	546	705	874	1054	510	658	816	983
800	**900**	1019	1313	1629	1965	935	1207	1497	1804	683	881	1093	1318	600	774	960	1156
1000	**900**	1196	1497	1782	2134	1103	1391	1699	1998	807	1016	1232	1460	714	891	1080	1281
1250	**900**	1340	1677	1996	2390	1224	1544	1886	2218	904	1138	1380	1635	793	989	1199	1422

Power dissipated inside System pro E power switchboards on the basis of the admissible overtemperature.
Δt = difference between the temperature inside the enclosure and ambient temperature.

Example

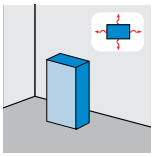
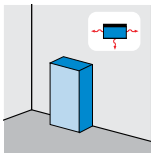
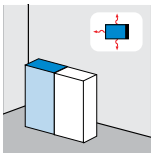
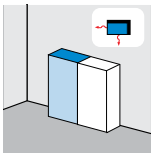
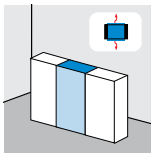
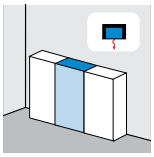
Enclosure IP31 H=2000mm, W=600mm, D=700mm exposed on all sides

Temperature inside the enclosure (t)	**°C**	**70 –**
Ambient temperature (t)	°C	35 =
Δt	**°C**	**35**
Maximum power dissipated	**(W)**	**1051**

Technical details and certifications

Power dissipated

System pro E power IP65

		Separate enclosure exposed on all sides				Separate enclosure for assembly on a wall				First and last enclosures exposed				First and last enclosures for assembly on wall				Central enclosure exposed				Central enclosure for assembly on a wall			
																									
		Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)			
W (mm)	D (mm)	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C	25 °C	30 °C	35 °C	40 °C
Structures H = 1800mm with blind panels																									
400	**300**	223	284	344	406	213	267	323	381	206	258	313	370	188	236	286	338	188	236	286	338	170	213	258	305
400	**200**	193	242	293	346	179	224	271	320	178	223	270	319	160	201	243	287	165	207	251	296	146	184	222	263
400	**500**	260	326	395	466	247	310	375	443	235	294	357	421	217	272	329	389	212	266	322	381	194	243	295	348
400	**700**	328	411	498	588	317	398	482	569	290	364	440	520	274	344	417	492	259	325	394	465	243	304	369	435
400	**900**	386	484	586	692	373	468	567	669	341	428	518	612	322	405	491	579	305	382	464	547	286	358	434	512
600	**300**	292	366	443	524	268	336	407	481	271	341	413	488	242	304	368	435	279	319	386	456	226	284	343	406
600	**200**	254	318	385	455	230	289	350	413	238	299	362	428	210	264	320	378	227	285	345	407	198	249	301	356
600	**500**	331	415	502	593	306	384	465	549	305	383	464	548	275	344	417	493	282	353	428	505	254	319	386	456
600	**700**	381	478	579	684	379	476	577	681	362	455	551	650	345	433	524	619	341	428	519	612	314	393	477	563
600	**900**	448	562	681	805	446	560	679	801	426	535	648	765	406	509	616	728	401	504	611	720	369	462	561	662
800	**300**	346	435	526	622	326	409	496	586	332	417	505	596	301	378	458	540	324	407	493	581	286	358	434	413
800	**200**	316	397	481	568	284	356	431	509	302	378	458	541	263	330	400	472	291	365	442	521	252	316	383	452
800	**500**	377	473	572	676	369	463	561	663	363	456	552	652	339	426	516	609	358	449	544	642	320	401	486	574
800	**700**	435	546	661	781	425	533	646	763	412	517	626	739	400	502	608	718	404	507	614	725	386	484	586	692
800	**900**	512	642	778	919	500	627	760	898	485	608	736	869	471	591	715	845	475	596	722	853	454	569	689	814
1000	**900**	596	718	838	959	583	708	844	981	568	692	832	975	551	677	808	948	556	679	811	950	533	659	795	932
1250	**900**	697	840	980	1122	682	828	987	1148	665	810	973	1141	645	792	945	1109	651	794	949	1112	624	771	930	1090
Structures H = 2000mm with blind panels																									
400	**300**	244	306	371	438	228	287	347	410	221	278	337	397	202	254	307	363	202	254	308	363	182	228	277	327
400	**200**	209	262	317	375	192	241	292	345	191	240	291	343	172	216	262	309	178	223	270	319	157	197	239	282
400	**500**	279	351	425	501	265	333	403	476	252	316	383	452	232	292	353	417	227	285	346	408	207	260	315	372
400	**700**	354	444	537	634	341	428	519	612	314	394	478	564	295	370	448	529	278	349	423	499	258	324	393	464
400	**900**	416	522	632	746	401	504	611	720	369	464	562	664	347	435	527	622	327	411	498	587	304	381	462	546
600	**300**	305	383	464	548	287	361	437	516	290	364	442	521	260	342	395	466	272	342	414	459	241	302	366	432
600	**200**	271	340	412	486	246	309	374	442	255	320	388	458	225	282	342	404	243	305	369	436	211	265	321	379
600	**500**	340	426	517	610	329	413	500	590	326	409	496	585	295	402	448	528	302	379	459	542	271	339	411	485
600	**700**	393	493	597	705	387	486	589	695	370	464	562	664	363	455	552	651	361	453	549	648	332	416	504	595
600	**900**	462	580	702	829	455	572	693	818	435	546	661	781	427	535	649	766	425	533	646	762	391	489	593	700
800	**300**	358	448	543	641	339	404	515	609	346	406	527	622	319	400	485	573	339	425	515	608	303	380	461	544
800	**200**	328	411	498	588	303	380	460	543	322	404	490	578	280	352	426	503	310	389	471	557	268	337	408	481
800	**500**	388	486	589	695	376	472	571	675	371	466	565	667	358	449	544	643	368	462	559	660	338	424	514	607
800	**700**	456	572	693	818	440	552	668	789	427	536	649	766	410	515	624	736	415	521	631	745	401	503	610	720
800	**900**	536	673	815	962	518	649	786	928	502	631	764	901	482	606	734	866	488	613	742	876	472	592	718	847
1000	**900**	629	753	892	1045	611	748	892	1092	593	728	862	998	574	697	826	960	585	710	843	980	569	690	819	952
1250	**900**	736	881	1044	1223	715	875	1044	1278	694	852	1009	1168	672	815	966	1123	684	831	986	1147	666	807	958	1114

Power dissipated inside System pro E power switchboards on the basis of the admissible overtemperature.
Δt = difference between the temperature inside the enclosure and ambient temperature.

Example

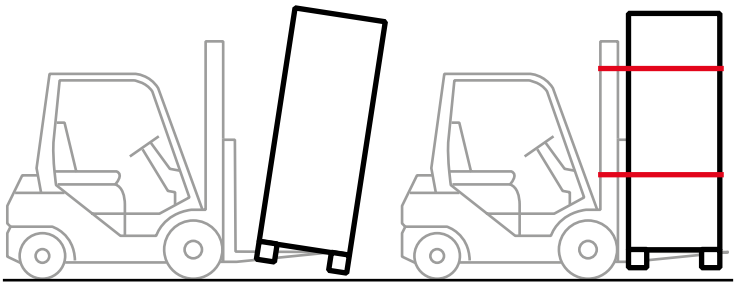
Enclosure IP31 H=1800mm, W=600mm, D=900mm esposed on all sides

Temperature inside the enclosure (t)	**°C**	**70 –**
Ambient temperature (t)	°C	35 =
Δt	**°C**	**35**
Maximum power dissipated	**(W)**	**681**

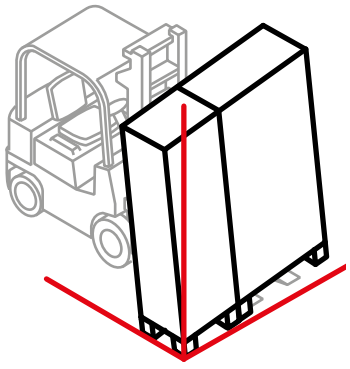
Technical details and certifications
Handling

Bottom handling

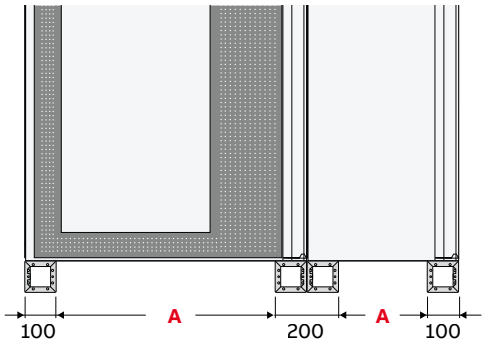
For extra safety, it is advisable to fasten the switchboard to the lift truck when using this type of vehicle for transport.



Check the center of gravity before handling structures measuring L=800/1000mm (with internal or external cable compartment) containing busbar systems.

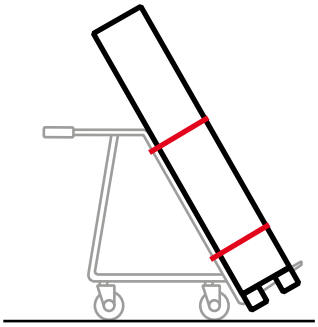


Useful dimensions for handling via forklift or pallet



Dimensions W [mm]	A (mm)
300	198
400	298
600	498
800	698
1000	898
1250	1148

Shallow switchboards should be handled in the following way:

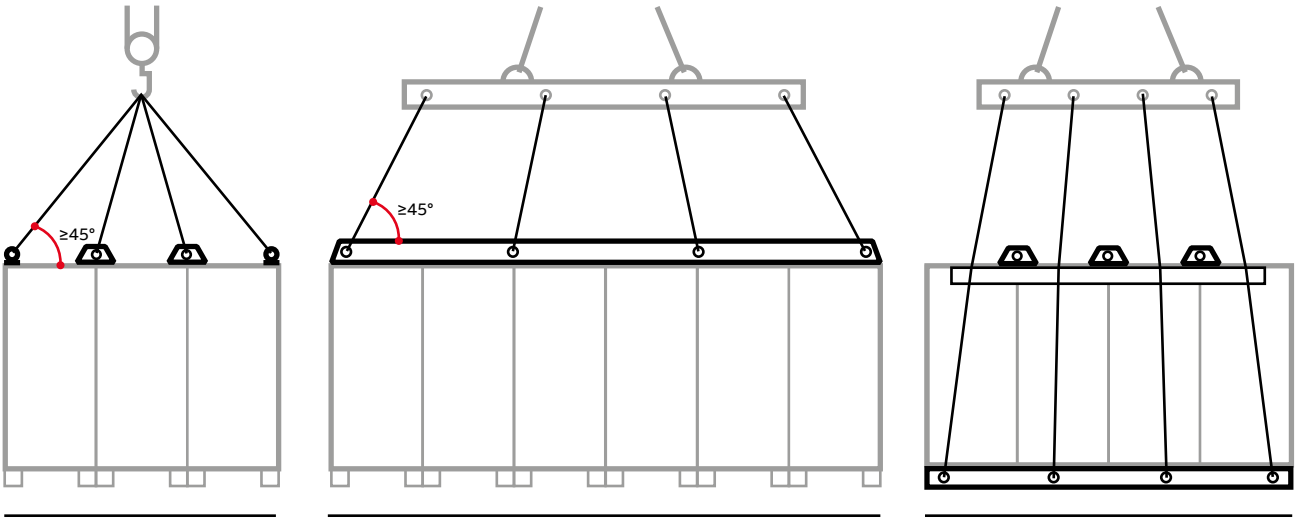


Technical details and certifications
Handling

Lifting from above

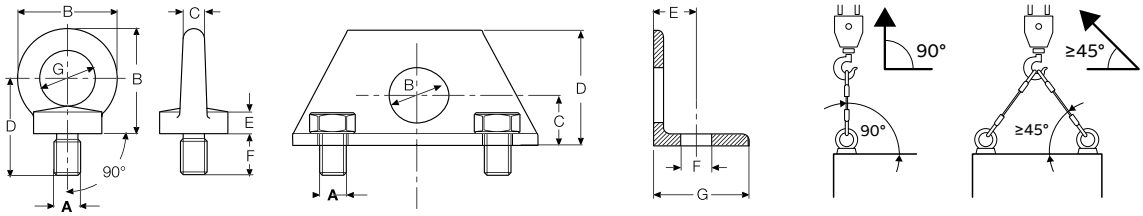
Ensure the following conditions are present before lifting switchboards with a crane or bridge crane:

- the ropes or chains must be in an excellent condition;
- the angle between the lifting ropes and the top of the switchboard must be ≥45°;
- up to 3 columns can be carried using eyebolts and lifting reinforcements; from 3 to 7 using lifting beams;
- up to 1000 kg in weight per column can be lifted using eyebolts and lifting reinforcements.
  Use the single plinth for carrying purposes when there is at least one column weighing over 1000 kg.
- Removal of the door is mandatory when handling from below with a single plinth and wooden beam.
- It is advisable to remove the withdrawable part of air circuit-breakers when handling switchboards.



Standard DIN 580 concerning mechanical connection components (only for eyebolts and lifting reinforcements)
Use the lifting beam to carry banks of more than 3 columns.

Eyebolts **Lifting reinforcements** **Load 1** **Load 2**



A	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Load 1 (kg)	Load 2 (kg)	Tightening torque (Nm)
Eyebolts									
M12	54	12	28	10	22	30	340	240	8
Lifting reinforcements									
M12	Ø40	37	80	25	Ø14	60	510	350	40

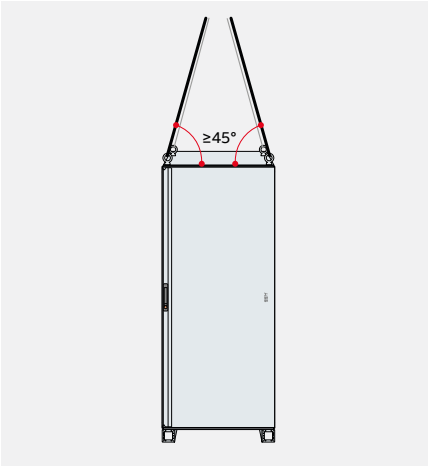
Tests performed in accordance with Standard EN 62208 (sect. 8.4)
Empty enclosures for low voltage assembled protection apparatus and switchgear. General requirements

Technical details and certifications

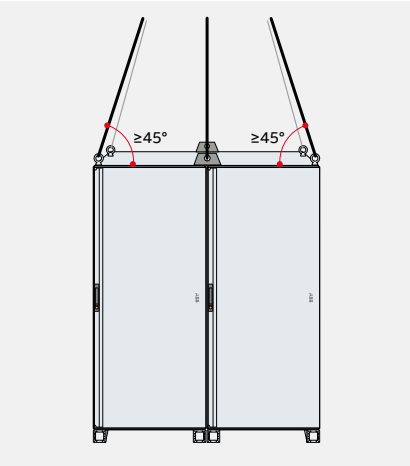
Handling

Lifting from above - single columns weighing ≤ 1000 kg

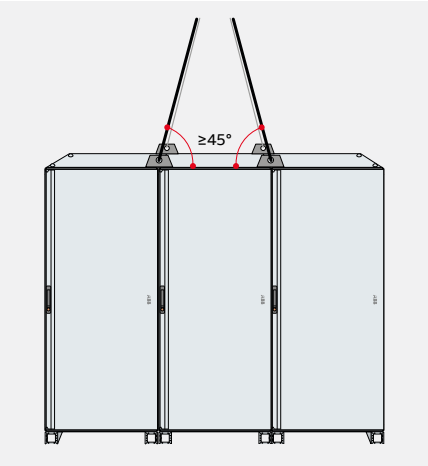
Maximum lifting and loading capacities (gross weight)
In accordance with Standard IEC EN 62208



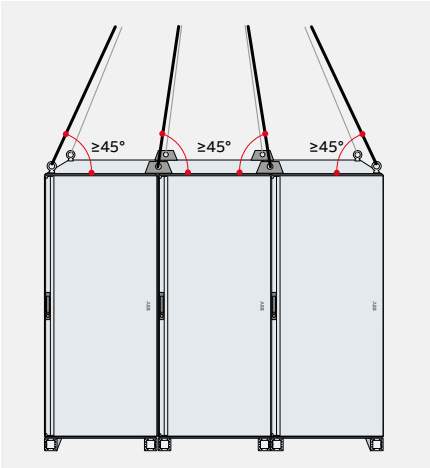
Number of columns		1
Maximum weight of single column		kg 1000
Total weight of columns		kg 1000
Joining kit		
Lifting kit	Eyebolts	PEBL0004
	Reinforcements	
Number of anchor rods used		4



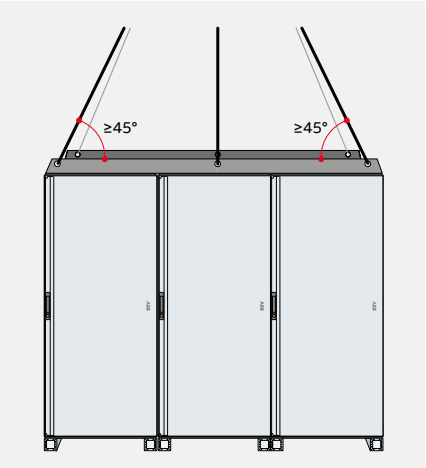
Number of columns		2
Maximum weight of single column		kg 1000
Total weight of columns		kg 2000
Joining kit		PSBS0065
Lifting kit	Eyebolts	PEBL0004
	Reinforcements	PBRL0002
Number of anchor rods used		6



Number of columns		3
Maximum weight of single column		kg 500
Total weight of columns		kg 1500
Joining kit		PSBS0065
Lifting kit	Eyebolts	
	Reinforcements	PBRL0002
Number of anchor rods used		4



Number of columns		3
Maximum weight of single column		kg 1000
Total weight of columns		kg 2000
Joining kit		PSBS0065
Lifting kit	Eyebolts	PEBL0004
	Reinforce-ments	PBRL0002
Number of anchor rods used		8



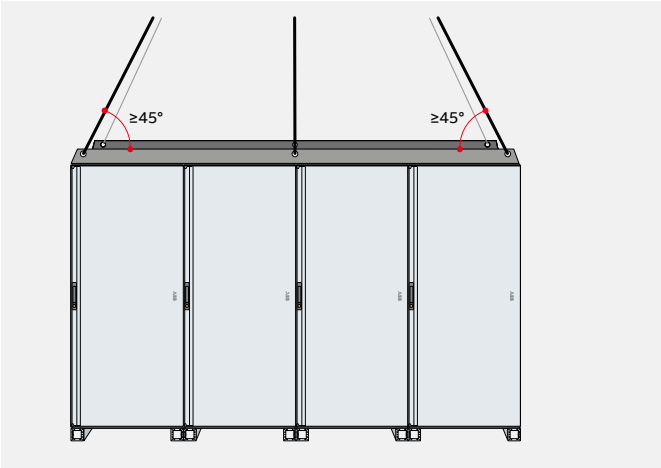
Number of columns		3
Maximum weight of single column		kg 1000
Total weight of columns		kg 3000
Joining kit		PSBS0065
Lifting kit	Beam	TU1000
Number of anchor rods used		6

Technical details and certifications

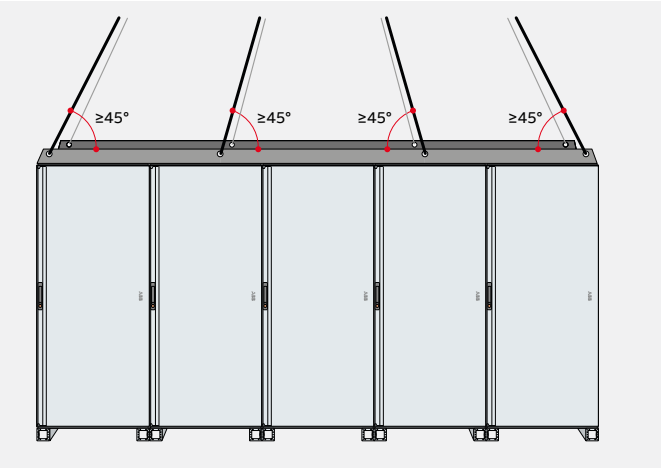
Handling

Lifting from above - single columns weighing ≤ 1000 kg

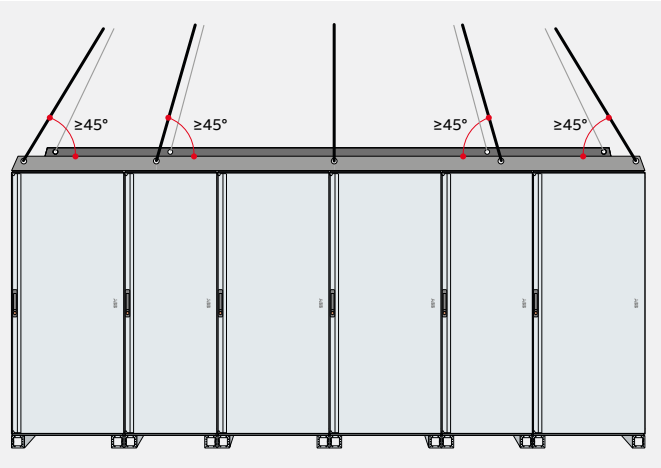
Maximum lifting and loading capacities (gross weight)
In accordance with Standard IEC EN 62208
The number of holes in the lifting bar equals the number of columns -1.



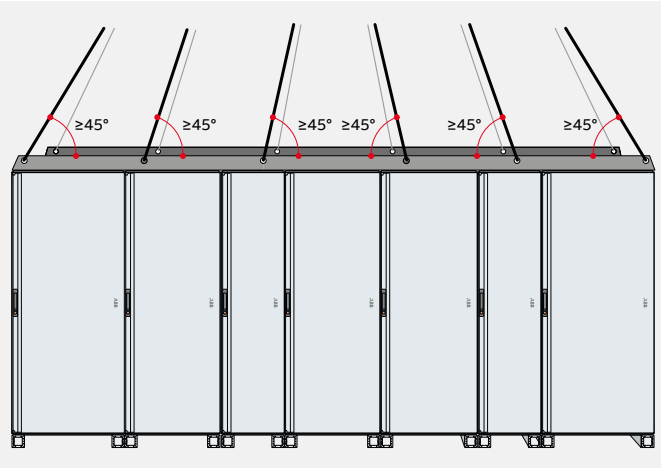
Number of columns		4
Maximum weight of single column		kg 1000
Total weight of columns		kg 4000
Joining kit		PSBS0065
Lifting kit	Beam	TU1000
Number of anchor rods used		6



Number of columns		5 (maximum 6 meters)
Maximum weight of single column		kg 1000
Maximum weight of columns		kg 5000
Joining kit		PSBS0065
Lifting kit	Beam	TU1000
Number of anchor rods used		8



Number of columns		6 (maximum 6 meters)
Maximum weight of single column		kg 1000
Maximum weight of columns		kg 5000
Joining kit		PSBS0065
Lifting kit	Beam	TU1000
Number of anchor rods used		10

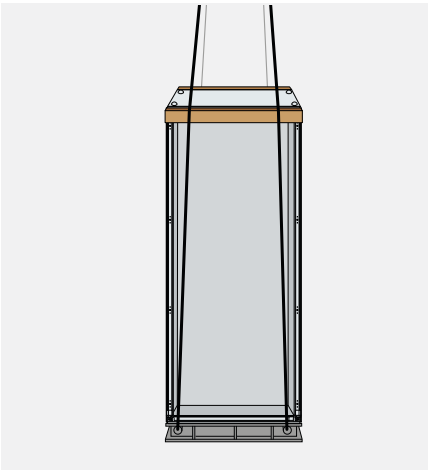


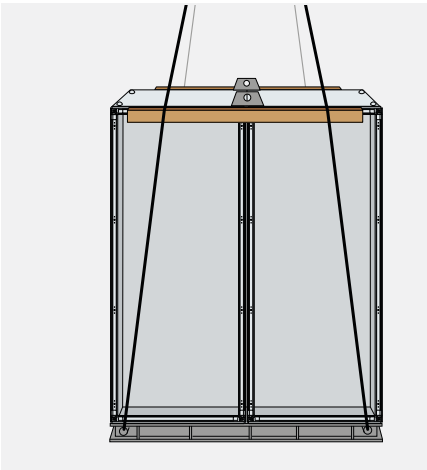
Number of columns		7 (maximum 6 meters)
Maximum weight of single column		kg 1000
Maximum weight of columns		kg 5000
Joining kit		PSBS0065
Lifting kit	Beam	TU1000
Number of anchor rods used		12

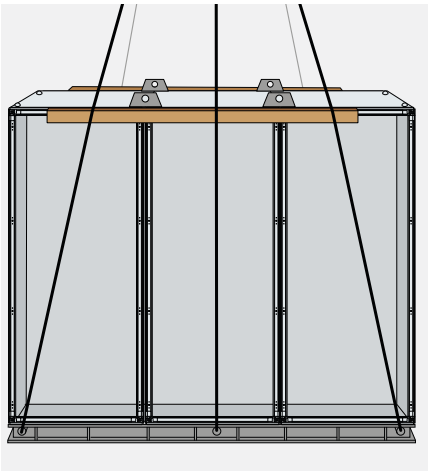
Technical details and certifications
Handling

Lifting from above when at least one column weighs > 1000 kg per transport unit

Maximum lifting and loading capacities (gross weight)
In accordance with Standard IEC EN 62208







Number of columns		1
Weight of single column		Kg > 1000
Joining kit		
Lifting kit	Reinforced plinth	PPUN0100
Structure reinforcement		PRAS0012*
Position and number of reinforcing tubes	Depends on switchboard front (specify when ordering)	

Number of columns		2
Weight of single column		Kg > 1000
Joining kit		PSBS0065
Lifting kit	Reinforced plinth	PPUN0100
Structure reinforcement		PRAS0012*
Position and number of reinforcing tubes	Depends on switchboard front (specify when ordering)	

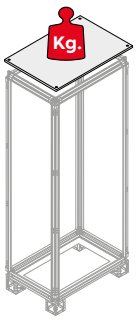
Number of columns		3
Weight of single column		Kg > 1000
Joining kit		PSBS0065
Lifting kit	Reinforced plinth	PPUN0100
Structure reinforcement		PRAS0012*
Position and number of reinforcing tubes	Depends on switchboard front (specify when ordering)	

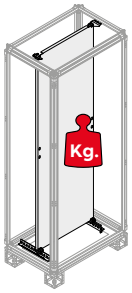
* Order one PRAS0012 kit for each column weighing ≥ 1000 kg

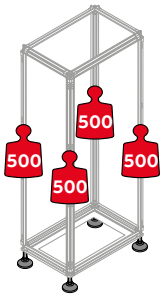






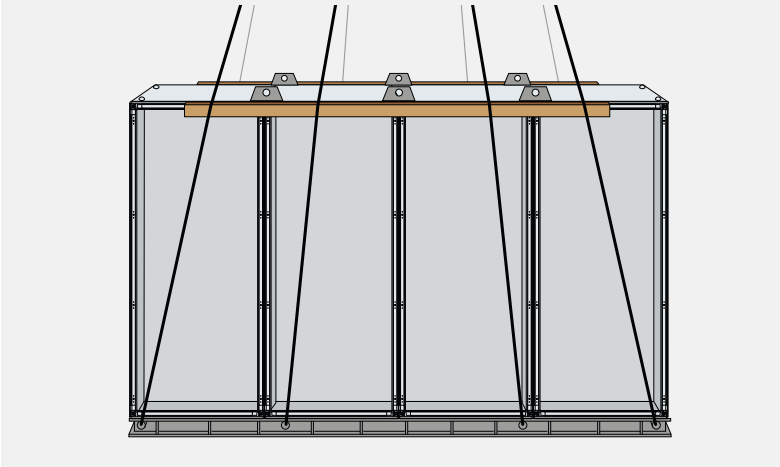






Door	**Side panels**		**Rear panels**		**Roof**	**Blind mounting plate total height**	**Levelling feet EV1004**
Kg	D (mm)	Kg	W (mm)	Kg	Kg	Kg	Kg
50	>700	90	>600	90	40	500	500 cad.
	≤700	110	≤600	110			

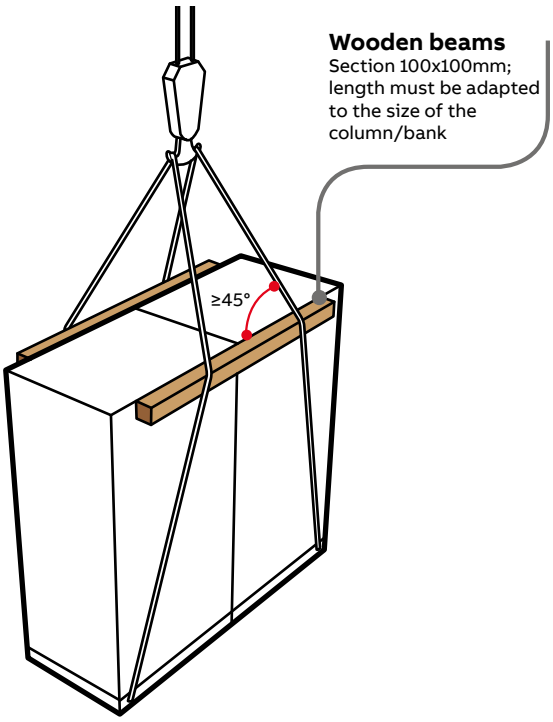
Technical details and certifications
Handling



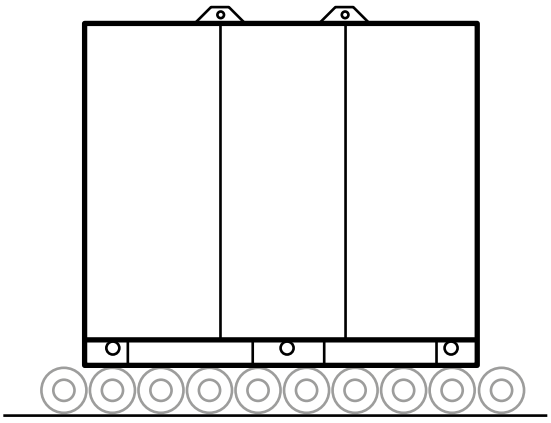
Number of columns		4
Weight of single column		Kg > 1000
Joining kit		PSBS0065
Lifting kit	Reinforced plinth	PPUN0100
Structure reinforcement		PRAS0012*
Position and number of reinforcing tubes	Depends on switchboard front (specify when ordering)	

* Order one PRAS0012 kit for each column weighing ≥ 1000 kg

Example of lifting using protective wooden beams



The reinforced plinth also allows the apparatus to be moved horizontally on rollers without the need for further accessories.



Technical details and certifications
ABB SACE Declaration of conformity

System pro E power switchboards with rated characteristics	
Rated service voltage Ue	up to 690V AC
Rated insulation voltage Ui	up to 1000V AC / 1500V DC
Rated current / Icw	up to 6300A / up to 120kA
IP protection class	IP30, IP31, IP40, IP41, IP65

If the components have been chosen and assembled correctly, as described in the catalogue and instruction manual, the resulting switchboards will conform to Standard IEC 61439-1-2, in accordance with the provisions established by the Low Voltage Directive adopted by the European Union 2007/95/EC (formerly Directive 73/23/EEC, Law 791/1977).

The above is valid if the switchboard has been designed and built:

- having chosen the materials on the basis of the performance values indicated in the ABB catalogues;
- having sized the conductors in accordance with the provisions established by Standards EN 61439-1 and CEI 64-8;
- having performed the individual tests established by Standard IEC 61439-1-2 and obtained positive results.

Technical details

Information about disposal at the end of the lifecycle of the products
ABB SACE has conducted research into the end of the lifecycle of the product.
The assessments were made by applying the LCA (Life Cycle Assessment) method as established by ISO 14040 - 1997 and in accordance with the requirements established by SEMC in the ISO TR 14025 TYPE III Enviromental declarations (MSR 1999:2 – “Guidelines Environmental Product Declarations”) document.
The research was conducted considering the disposal and recycling processes of the main materials forming a typical switchboard.
Using the bill of materials as a starting point, the researchers considered the ease with which each part can be disassembled and separated as well as the ability to recycle the materials. They found that the product is almost entirely recyclable.
After this, they limited the bill of materials to the most significant components and assessed the lifecycle of each.
The result was the flow of recyclable materials and salvaged materials (or for incineration) indicated in the Table. In theory, none of the materials should end up in a landfill.

Substance	Destination
Aluminium scrap	Recycling
Copper scrap	Recycling
Polyurethane gaskets	Incineration
Fiberglass	Recycling
Scrapped glass	Recycling
Paper/cardboard	Recycling
Plastic insulators	Recycling
Sheet metal scrap	Recycling

Technical details and certifications
Electrical continuity

Electrical continuity of the structure and fixed and movable parts

The accessible metal parts in a switchboard must be electrically connected together and with the main protection conductor. Ω 0.1 is the maximum resistance value allowed for this circuit.
Electrical continuity in System pro E power switchboards is automatically guaranteed by the screws and bolts and by the way the structure assembly is engineered. In addition, the connections can be made using the earthing pins on the external covers.
The panels are earthed by means of the fastening screw, as required by standard IEC 61439-1 (part 8.4.3.2.2) “Specifications for earthing continuity to protect against the consequences of faults within switchgear”: “b) For covers, doors, closing plates and similar, the ordinary connections with metal screws and metal hinges are considered sufficient for electrical continuity so long as electrical devices that exceed the low voltage limits (ELV) are not installed on them”. To achieve this:

- only and exclusively use the screws and accessories supplied with the components
- comply with the assembly instructions given in the manuals

The proposed solutions have been tested and no additional earthing braid is required.
The paint reduces the electrical continuity of the assembled parts.

To assure electrical continuity, use screws with with toothed washers that cut into the paint or, alternatively, earthing braid.
To assure electrical continuity, the mechanical assemblies (front plates, bottom plates, etc.) are also made with devices that cut into the painted surface:

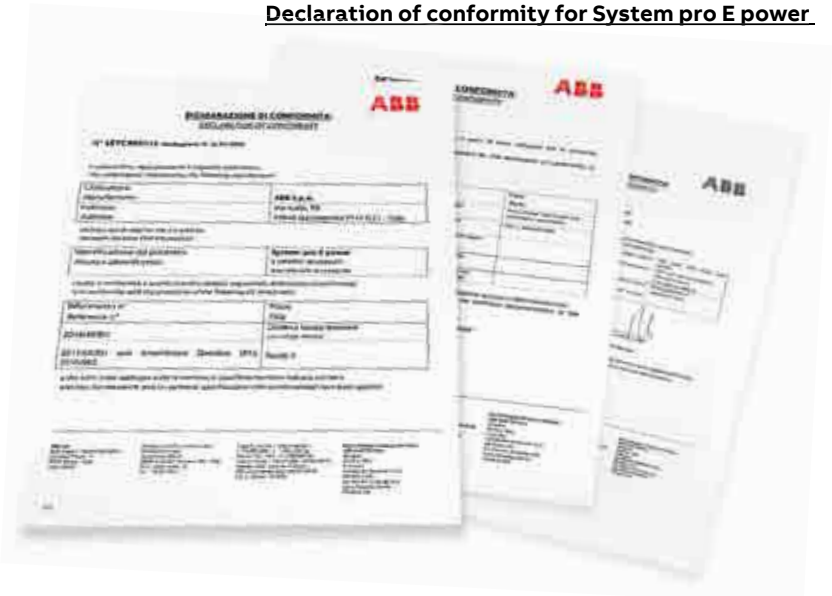
- clips
- 1/4-turn screws
- self-threading screws
- screws + nuts with sharp-toothed washers

It is obligatory to use a braid for the earth connection in the case of movable metal parts (doors, swing frames or removable panels) that must support electrical components differing from class 2 (which, being fitted with double insulation, are not earthed).

Electrical continuity in the case of front panels, is guaranteed in the closed position by the special shape of the hinge (ABB patent), always supplied even in the absence of connection via conductor. Earthing braid is supplied on request for the electrical components installed on the door, as well as for the passage of cables from communicating or low power circuits: analog, digital and telecommunication cables. Since the internal parts and the circuit-breaker assembly kits are made of unpainted galvanized steel, continuity is guaranteed without any additional earthing braid.

The earth conductor must be properly sized in relation to the maximum operating current, as shown in the following table defined by Standard IEC 61439-1.

Declaration of conformity for System pro E power

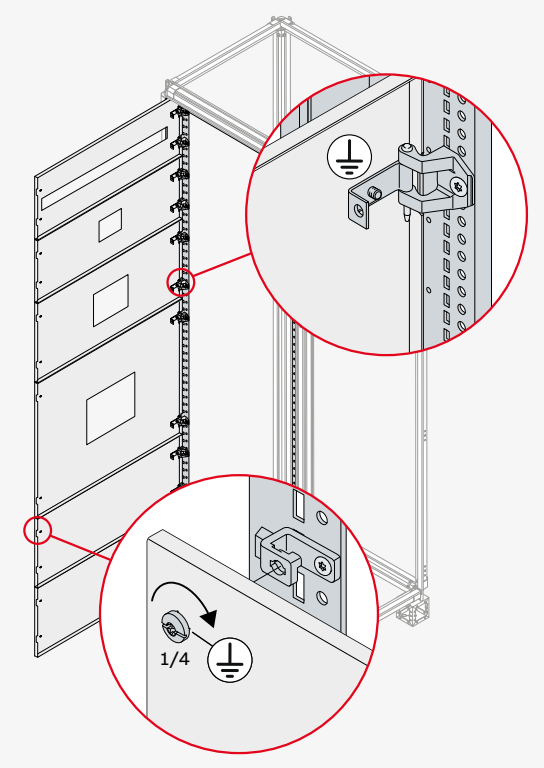


Technical details and certifications

Electrical continuity

—
01 The electrical continuity of the structure is automatically guaranteed with the solo assembly of the structure, without the use of dedicated accessories. In the case of panels modular, it is guaranteed in the open position by the special hinge (ABB patent) and in the closed position by both the hinge and the special 1/4 turn screw. Furthermore, the particular shape of the hinges. Access the connection also through the traditional copper braid.
—
02
The revolving frame allows electrical continuity through the use of the traditional copper braid.
—
03 The side panels, the rear panels, and the roofs guarantee electrical continuity thanks to the special scratching screw.
The base with plinth is equipped with M6 copper studs that allow electrical continuity through a braid.
—
04 The blind and transparent doors are equipped with M6 copper studs which guarantee electrical continuity with the traditional copper braid.

—
01



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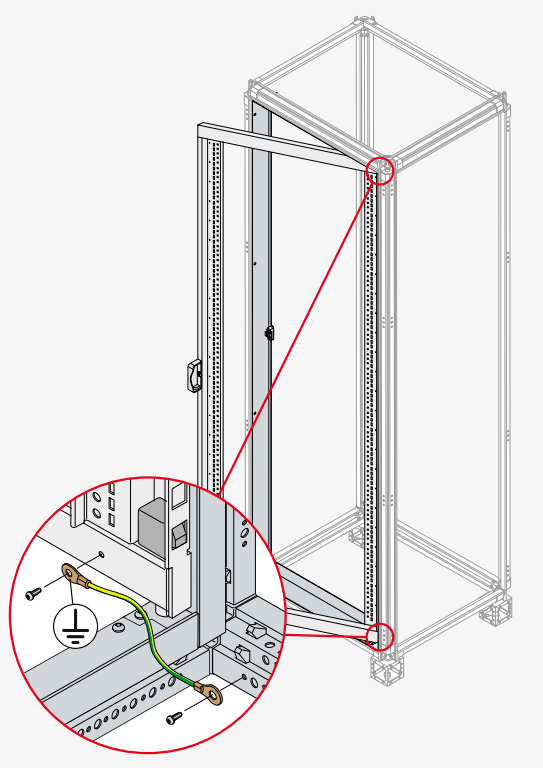
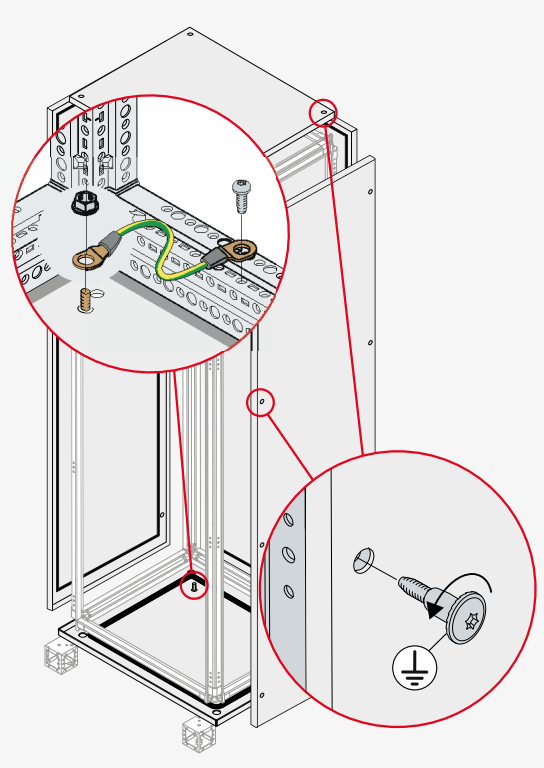
02



—
03



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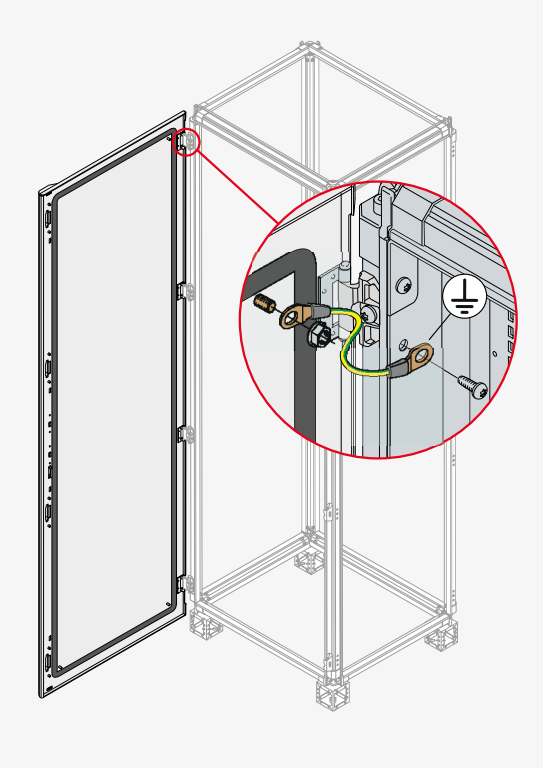
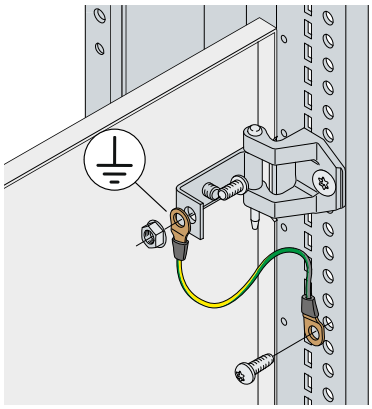
04

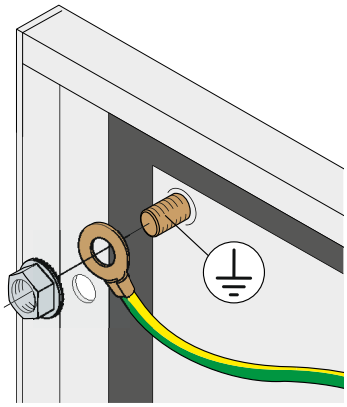


Technical details and certifications
Conductors

Grounding of the structure

In the case of metal moving parts (doors, revolving or removable panels) which must support electrical components other than class 2 (which, being double insulation, do not have the connection of the earths to the ground), it is mandatory to use a braid for the connection of land.
Calculation of protection conductor PE





Standard IEC 61439-1-2 contain the methods for calculating the section of the protection conductor PE, which must be sized to withstand the thermal and dynamic components of the fault currents.

The following conditions must be ascertained when choosing the position in which the bar is to be fixed:

- the bar must be connected straight to the earthed parts of the switchboard (structure);
- the bar must be connected in an easily accessible position.

Use the values in the table for sizing taken from Standards IEC 61439-1-2.

S (mm²)					Sp (mm²)
		S	≤	16	S
16	<	S	≤	35	16
35	<	S	≤	400	S/2
400	<	S	≤	800	200
		S	>	800	S/4

Equipotentiality conductor

Conductive parts of a device, which cannot be connected to the protection circuit with their own means of connection, must be connected to the protection circuit of the apparatus through the equipotentiality of the protection.
This is done by means of a protective bonding conductor, the section of which must be chosen in accordance with the table below.

Rated service voltage I_e (A)					Minimum section of the protective bonding conductor (mm²)
		I_e	≤	20	S
20	<	I_e	≤	25	2,5
25	<	I_e	≤	32	4
32	<	I_e	≤	63	6
63	<	I_e			10

S = section of the line conductor (mm²)

Conductor PEN

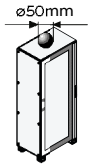
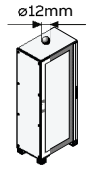
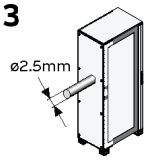
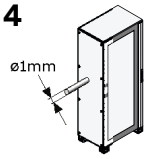
The section of the PEN conductors of an apparatus must be determined in the same way as the neutral conductor (N).

10mm2 is the minimum section of a copper conductor. The PEN conductor does not need to be insulated. Structure parts must not be used as a PEN conductors.

However, the copper or aluminium assembly tracks can be used as PEN conductors.
For conductors that are not made of copper, equivalent conductivity sections are used instead of the sections above and may require larger terminals.

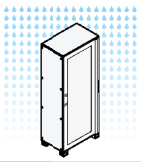
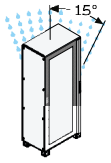
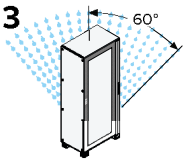
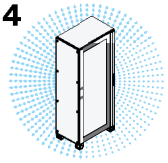
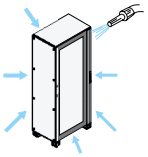
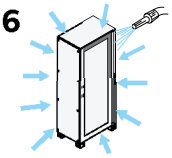
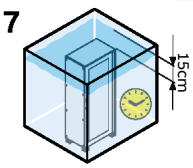
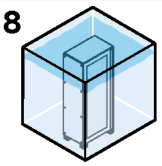
Technical details and certifications
IP protection class

1st DIGIT: protection against solid objects

0		No protection
1		Protected against solid objects larger 50mm (accidental contact with the hands)
2		Protected against solid objects larger than 12mm (fingers)
3		Protected against solid objects larger than 2.5mm (tools, wires)
4		Protected against solid objects larger than 1mm
5		Protected against dust (no harmful deposits)
6		Totally protected against dust

1st digit defined by Standards 61439-1-2 (Ref. sect. 10.3).

2nd DIGIT: Protection against liquids

0		No protection
1		Protected against vertically dripping water (condensation)
2		Protected against water dripping at an angle up to 15° from the vertical
3		Protected against rain falling at an angle up to 60° from the vertical
4		Protected against water splashing from all directions
5		Protected against jets of water sprayed from all directions
6		Protected against jets of water similar to waves
7		Protected against the effects of temporary immersion
8		Protected against the effects of continuous immersion

2nd digit defined by Standards 61439-1-2 (Ref. sect. 10.3).

Technical details and certifications

IP protection class

Protection against ingress of solid objects

1st characteristic digit	Brief description	Full description
0	Not protected	No particular protection is envisaged
1	Protected against solid objects larger than 50mm	A large area of the human body, for example a hand (however, voluntary protection is not envisaged) or solid objects larger than 50mm in diameter must not be able to penetrate
2	Protected against solid objects measuring	The fingers or similar objects measuring 80mm or solid objects more than 12mm in diameter must not be able to penetrate
3	Protected against solid objects measuring more than 2.5mm	Tools, wires, etc., more than 2.5mm in diameter or thickness or solid objects more than 2.5mm in diameter must not be able to penetrate
4	Protected against solid objects measuring more than 1.0mm	Wires or flat cables more that 1.0mm thick or solid objects more than 1.0mm in diameter must not be able to penetrate
5	Protected against dust	Penetration of dust is not totally excluded but the quantity that may penetrate is not sufficient to impair the correct operation of the material
6	Totally protected against dust	No dust penetration is permitted

Protection against ingress of water

2nd characteristic digit	Brief description	Full description
0	Not protected	No particular protection is envisaged
1	Protected against dripping water	Drops of water falling vertically must not produce harmful effects
2	Protected against water dripping at a maximum angle of 15°	Drops of water falling vertically must not produce harmful effects when the enclosure is tilted at any angle up to 15° from its normal position
3	Protected against rainfall	Water falling as a spray at any angle up to 60° from the vertical shall have no harmful effects
4	Protected against splashing water	Water splashing against the enclosure from any direction shall have no harmful effects
5	Protected against water jets	Water projected by a nozzle from any direction shall have no harmful effects
6	Protected against waves	Waves or powerful water jets shall not penetrate the enclosure in harmful quantities
7	Protected against the effects of temporary immersion	Ingress of water in harmful quantities shall not be possible when the enclosure is immersed in water under defined conditions of pressure and time
8	Protected against the effects of continuous immersion	The equipment is suitable for continuous immersion under conditions which shall be specified by the manufacturer

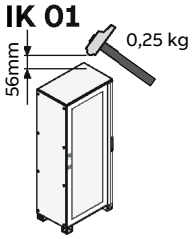
Technical details and certifications
Mechanical shock resistance IK

The IK is expressed in Joule in compliance with the requirements of IEC 62262.

IK 0

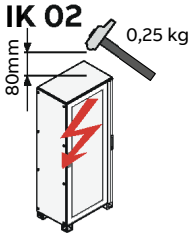
Not protected

IK 01



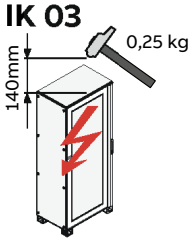
Impact energy in Joule 0.140

IK 02



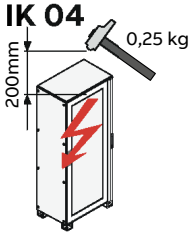
Impact energy in Joule 0.200

IK 03



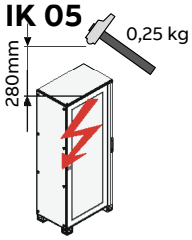
Impact energy in Joule 0.350

IK 04



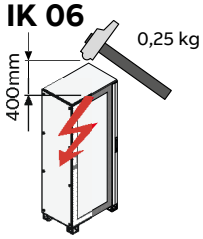
Impact energy in Joule 0.500

IK 05



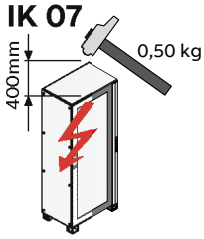
Impact energy in Joule 0.700

IK 06



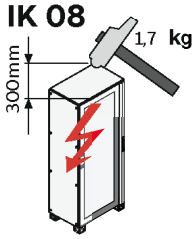
Impact energy in Joule 1.00

IK 07



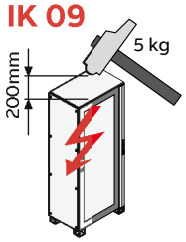
Impact energy in Joule 2.00

IK 08



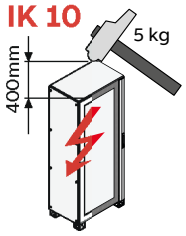
Impact energy in Joule 5.00

IK 09



System pro E power
Glass door
Impact energy in Joule 10.00

IK 10



System pro E power
Blind door
Impact energy in Joule 20.00

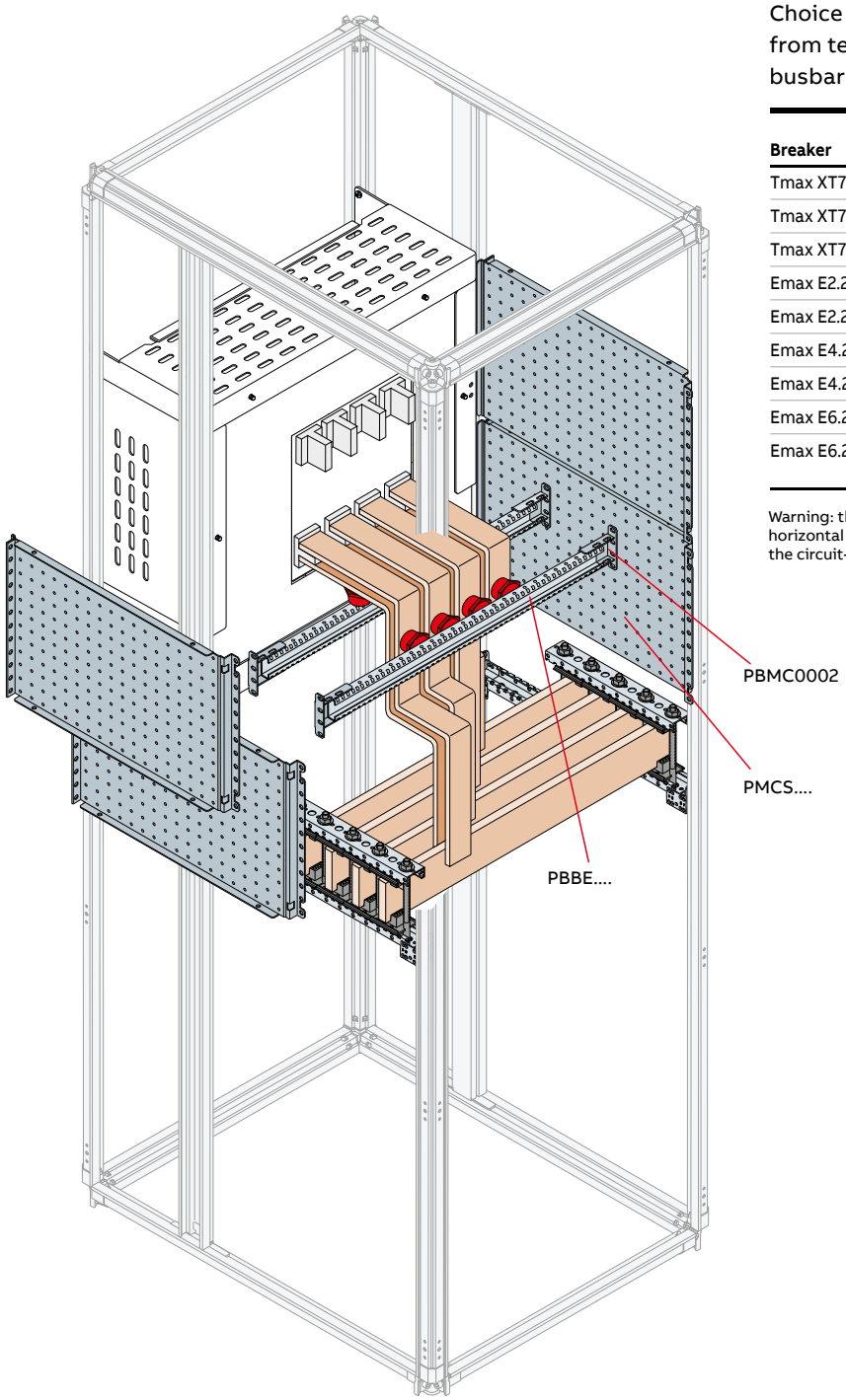
Technical details and certifications
Special painting

On request, colours other than the standard RAL 7035 orange peel are available with the same painting cycle.
Tables A, B and C indicates different raises on standard price for the paint. For every request regarding special colours, please contact ABB.

RAL color chart available (minimum lot of 3 structures)

RAL 1001 Smooth ■ Orange peel	RAL 1004 Smooth ■ Orange peel	RAL 1013 Smooth ■ Orange peel ■	RAL 1015 Smooth ■ Orange peel ■	RAL 1018 Smooth ■ Orange peel
RAL 1021 Smooth ■ Orange peel	RAL 2004 Smooth ■ Orange peel ■	RAL 2008 Smooth ■ Orange peel	RAL 2009 Smooth ■ Orange peel	RAL 3000 Smooth ■ Orange peel
RAL 3004 Smooth ■ Orange peel	RAL 3020 Smooth ■ Orange peel	RAL 4005 Smooth ■ Orange peel	RAL 5000 Smooth ■ Orange peel	RAL 5009 Smooth Orange peel ■
RAL 5010 Smooth ■ Orange peel ■	RAL 5012 Smooth ■ Orange peel	RAL 5015 Smooth Orange peel ■	RAL 6011 Smooth Orange peel ■	RAL 6021 Smooth Orange peel ■
RAL 6027 Smooth ■ Orange peel	RAL 7001 Smooth ■ Orange peel ■	RAL 7004 Smooth Orange peel ■	RAL 7012 Smooth Orange peel ■	RAL 7016 Smooth Orange peel ■
RAL 7024 Smooth Orange peel ■	RAL 7030 Smooth ■ Orange peel ■	RAL 7032 Smooth ■ Orange peel	RAL 7035 Smooth ■ Orange peel	RAL 7036 Smooth Orange peel ■
RAL 7037 Smooth Orange peel ■	RAL 7038 Smooth ■ Orange peel ■	RAL 7040 Smooth ■ Orange peel	RAL 7042 Smooth ■ Orange peel	RAL 7043 Smooth ■ Orange peel
RAL 7047 Smooth ■ Orange peel	RAL 9001 Smooth ■ Orange peel ■	RAL 9002 Smooth Orange peel ■	RAL 9003 Smooth ■ Orange peel	RAL 9005 Smooth Orange peel ■
RAL 9007 Smooth ■ Orange peel	RAL 9010 Smooth ■ Orange peel ■	RAL 9016 Smooth ■ Orange peel		

Technical details and certifications
Examples of connections from vertical circuit-breaker to omnibus busbars



Choice of copper busbars to use for connections from terminals of circuit-breakers towards omnibus busbar system.

Breaker	Section and quantity of copper busbars connected
Tmax XT7-T7 Iu=1000A, Emax E1.2 Iu=1000A	1x50x10
Tmax XT7-T7 Iu=1250A, Emax E1.2 Iu=1250A	2x50x10
Tmax XT7-T7 Iu=1600A, Emax E1.2 Iu=1600A	2x50x10
Emax E2.2 Iu=2000A	2x60x10
Emax E2.2 Iu=2500A	3x60x10
Emax E4.2 Iu=3200A	3x100x10
Emax E4.2 Iu=4000A	4x100x10
Emax E6.2 Iu=5000A	5x100x10
Emax E6.2 Iu=6300A	7x100x10 (terminals) + 4x160x10 (connections)

Warning: the dimensions and configuration of the cross-section of the horizontal main busbar system could differ from those of the connection to the circuit-breaker of the same current.

Technical details and certifications

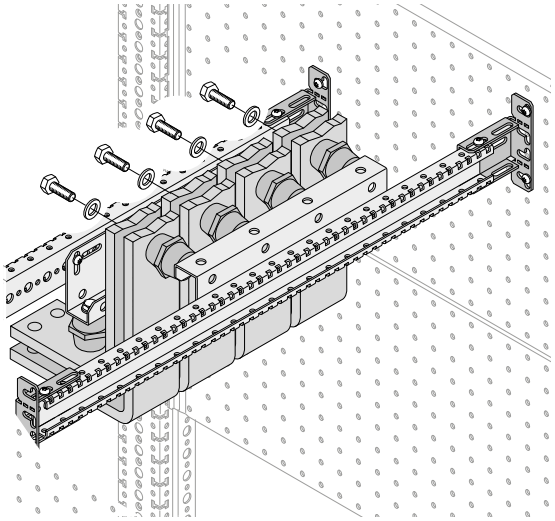
Examples of connections from vertical circuit-breaker to omnibus busbars

Busbar fastening brackets
These brackets are designed to facilitate the creation (using screws and hexagonal insulators) of busbar anchor plates from the terminals of the circuit-breaker towards the main omnibus busbar system.

In the event of a short-circuit, both the apparatus and structure could be subjected to mechanical stress owing to the electrodynamic forces involved.
To ensure that safe conditions are maintained and prevent the weight of the busbars from bearing on the terminals of the circuit-breaker itself, the Emax air circuit-breaker catalog indicates the maximum distance from the terminals of the circuit-breaker at which the busbar anchor brackets should be fixed, on the basis of the value of Ipk.

Also bear in mind that this bracket system must be fixed to the cross-piece (mounted on lateral connection modules by means of the purpose-made plate)

In accordance with DIN43673 standards, the table below lists the tightening torque of each type of screw used (class 8.8):



Selezione delle viti per Emax piastre di ancoraggio

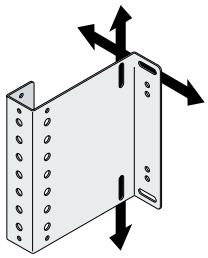
Vite diametro (mm)	Piastre di ancoraggio per interruttori Emax (Nm)
M4	2.6÷2.9
M5	5.1÷5.7
M6	8.9÷9.9
M8	21.8÷24.2
M10	43.2÷48
M12	74.3÷82.6
M14	117÷130
M16	177.5÷197.3
M18	245.6÷272.9

Nm = Newton per metro

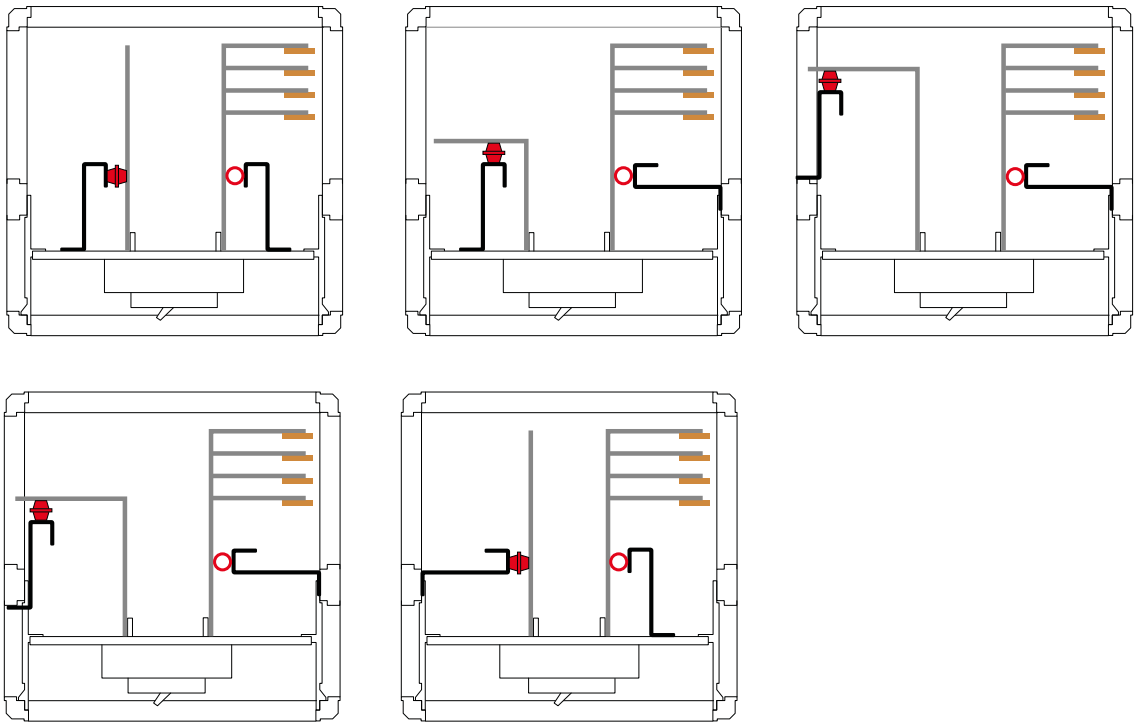
View the drawings of the connections/examples of brackets used for anchor plates for connections from circuit-breakers via the pathway Documentation-drawings file in the link:
https://new.abb.com/low-voltage/it/prodotti/contenitori/system-pro-e-power/system-pro-e-power/preconfigurate

Technical details and certifications

Examples of brackets used for horizontal moulded-case circuit-breakers

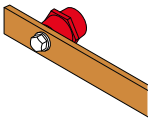


Mounting positions

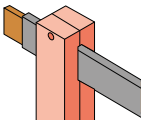


INSULATORS

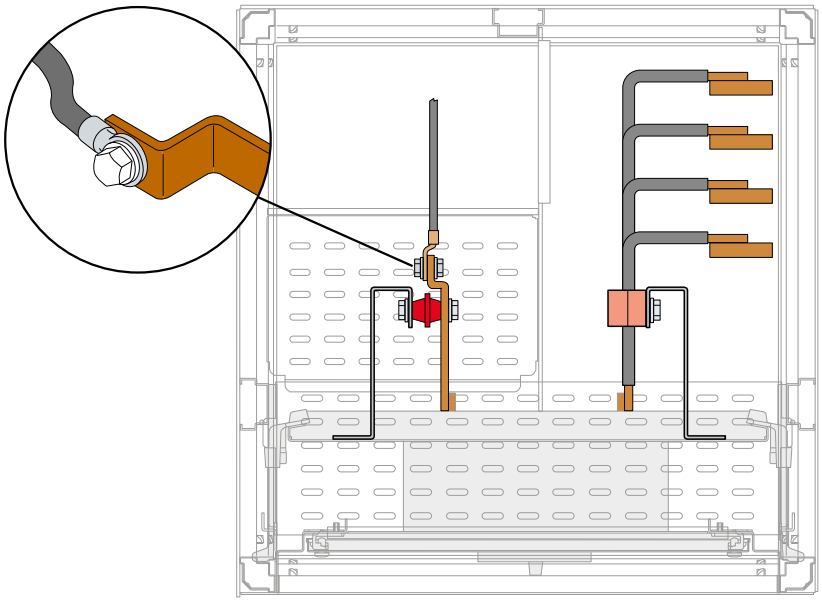
Hexagonal insulators for copper busbars



GPO3 insulators for insulated flexibars



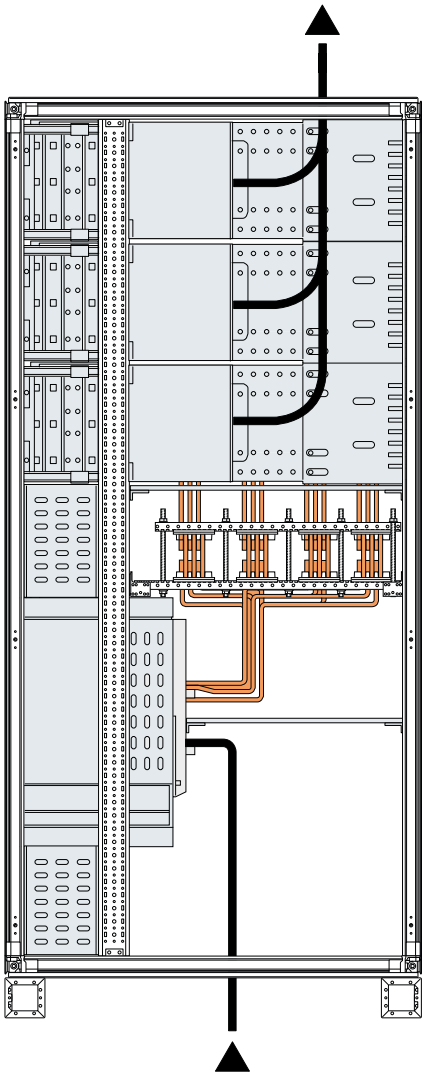
Example of use of the brackets in structure form 4b with attestation of the cables coming out of the rear cubicle

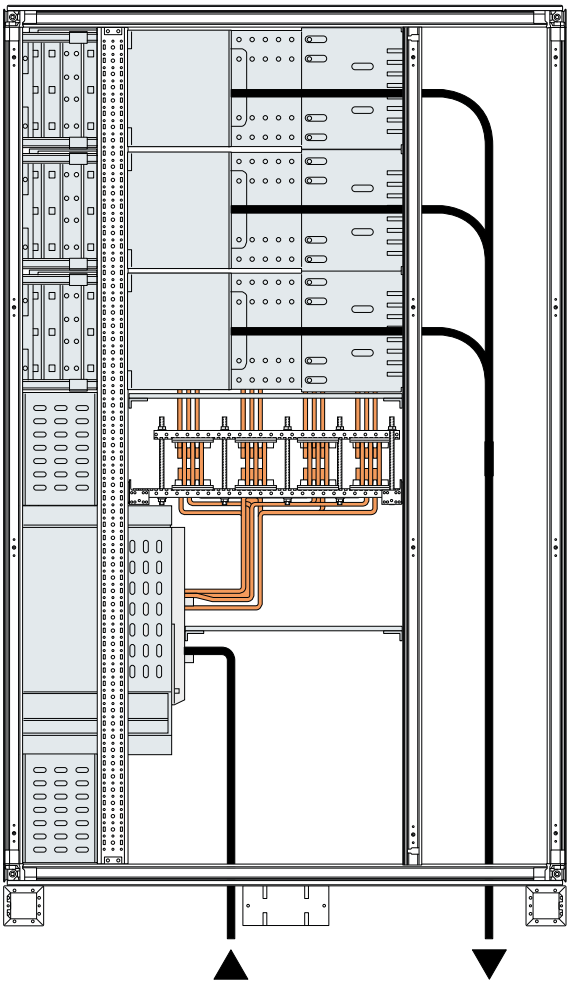


Cubicle P3 - Form 4b must be used if the bracket is used with flanged plates.
The bracket can only be used with minimum cubicle P1 - Form 4b with kits in Fixed versions XT1 XT2 XT3 XT4.
In all other cases, use the bracket with cubicle P2 - Form 4b.

Technical details and certifications
Examples of use in the cable compartment

In the case of full-height omnibus busbars, include a cable compartment (internal or external) if cable incoming and outgoing take place simultaneously from the bottom or from the top.





Technical details and certifications
Routine and supplementary maintenance schedule

1. Switchboard marking
The manufacturer must provide an identification plate, legible at all times throughout the operation of the switchboard.
The identification plate must bear the following information:

- Manufacturer's name and trademark;
- Identification number of the switchboard (allowing further information to be obtained from the switchboard manufacturer)
- Means for identifying the date of manufacture
- IEC 61439-2
- CE mark (not outside Euro)

Check switchboard marking by rubbing for 15 seconds with a cloth soaked in water followed by

Company	
N° ident/vo	
Date	
Standard	

a further 15 seconds with a cloth soaked in gasoline, as described in IEC 61439-1 10.2.7. Marks applied by stamping, pressure and similar scoring processes, as well as labels with laminated plastic coatings, do not have to be checked by this test method.

2. Documentation required
Enclose the following documentation with the switchboard:

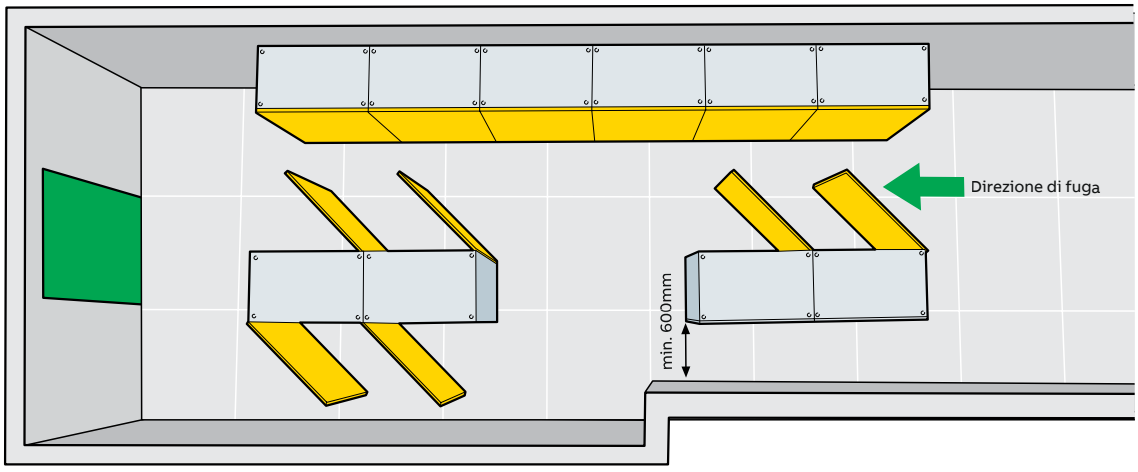
- Catalog of System pro E power switchboard and catalog of apparatus
- Instruction manual of System pro E power switchboard and instruction manual of apparatus
- Document 1STC860086 Verification of installation conditions
- Check the effective compliance with any special duty conditions established between the switchboard manufacturer and user (see IEC 61439-1 7.2).

3. Installation and putting into service
The position in which the switchboard is installed must allow convenient access both to parts which may effectively require maintenance and to actuating members, i.e.:

- Maintaining a distance of at least 600 mm from the wall allows the rear panel to be easily removed and ensures that heat is dissipated.

Design engineering takes account of the position and dimensions of the switchboard so as to ensure compliance with the regulations governing effective maintenance.

For example, it is advisable to install the switchboard at least 600 mm from the wall to allow the rear panel to be easily removed. The doors and



Garantire apertura porte.

Technical details and certifications

Routine and supplementary maintenance schedule

swing frames must also be able to open properly. The personnel must be able to reach the emergency exits without difficulty.

- If the switchboards are very large, mechanical division points must be defined so that they can be easily transported. Before being fixed to the floor, the parts must be mechanical re-connected and the electrical contacts re-made.

- It is advisable to remove the glass door and take out any withdrawable apparatus (if present) to avoid damage during transport.

- Comply with the instructions in the catalog when handling the load.

- The switchboard must be fixed to the floor on a leveled, fairly smooth base using class 8.8 M12 bolts. Before powering the switchboard, it is advisable to make sure that none of the screws or bolts has worked loose and to remove all dust, foreign bodies, etc.

- Examples of the most important preliminary operations are outlined in table 1.

Table 1

<table>
<tr><th>Action</th><th>Check</th></tr>
<tr><td>Check identification mark of switchboard</td><td></td></tr>
<tr><td>Visually check that switchboard is clean and has not been damaged during transport</td><td></td></tr>
<tr><td>Visually check that seals and gaskets are undamaged</td><td></td></tr>
<tr><td>tightening torque values (Nm) Busbars in Cuponal copper and Al. and hexagonal insulators : Perform only visual inspection if previously marked with a felt-tip pen or paint, otherwise check tightening torques as indicated in the table:
<table><tr><th>Code/Ø hole</th><th>Nm</th></tr><tr><td>Steel tie rods PTRA....</td><td>15</td></tr><tr><td>Stainless steel tie rods PTRSXXXX</td><td>15</td></tr><tr><td>Hammer screws AD10XX</td><td>20</td></tr><tr><td>M6</td><td>8.9÷9.9</td></tr><tr><td>M8</td><td>21.8÷24.2</td></tr><tr><td>M10</td><td>43.2÷48</td></tr><tr><td>M12</td><td>74.3÷82.6</td></tr><tr><td>M14</td><td>117÷130</td></tr><tr><td>M16</td><td>177.5÷197.3</td></tr></table></td><td></td></tr>
<tr><td>Checking tightening torques (Nm) for flexible bars:
If previously marked with a marker or paint, carry out only a visual check; if not, proceed with the verification of the tightening torques according to the table.
<table><tr><th>Ø hole</th><th>Nm</th></tr><tr><td>M6</td><td>13</td></tr><tr><td>M8</td><td>30</td></tr><tr><td>M10</td><td>60</td></tr><tr><td>M12</td><td>100</td></tr></table></td><td></td></tr>
<tr><td>Check tightening torques (Nm) Panel (paneling, kit):
<table><tr><th>Screw</th><th>Nm</th></tr><tr><td>KIT screws (three-lobed M6)</td><td>6</td></tr><tr><td>M6 screws/nuts</td><td>8.9÷9.9</td></tr><tr><td>Upright screws and structure crosspieces (M10)</td><td>20</td></tr><tr><td>External paneling screw and hinges</td><td>5</td></tr></table></td><td></td></tr>
</table>

follows

Technical details and certifications

Routine and supplementary maintenance schedule

Action	Check
Tightening torque values (Nm) Apparatus: Perform only visual inspection if previously marked with a felt-tip pen or paint, otherwise check tightening torques as indicated in the catalog and/or instruction manual of the apparatus	
Check insulation resistance between the three phases and between them and earth	
Check whether the opening/closing operation of each apparatus is correct	
Check the mechanical interlocks, if present	
Check functionality of the racking-out and racking-in operations of withdrawable/plug-in switching devices, if present	
Check connection of auxiliary and measuring circuits, if present	
Check that the electronic measuring instruments (if present) switch on correctly	
Check that relays equipped with test key (if present) (circuit-breaker closed) trip correctly	
Check auxiliary signals, if present	
Check that the relay of the electronic switches (if present) turns on correctly	
Check operating cycles of motor-operated circuit-breakers, if present	
Check opening or emergency release coils, if present	
Check auxiliary circuits of withdrawable circuit-breakers in the isolated position, if present	
Use Test key to make sure that residual current devices trip, if present	
Check settings of circuit-breakers, if present	
Check indications on voltmeters, lamps, analyzers, if present	

Once these actions have been performed with positive results, the switchboard can be powered up. Remember to fit the previously removed covers back in place. The switchboard is normally powered up in the following way:

- Close the incoming line circuit-breakers;
- Make sure that the measuring instruments, grid analyzer and lamps function correctly;
- Close the output circuit-breakers individually;
- Make sure that the users function correctly.
- If an output circuit-breaker opens instantaneously, check to find out what caused the fault and then repeat the entire procedure described above
- o e ripetere tutta la procedura sopra descritta.

Once the installation is complete, make sure that the individual circuits and their respective protection devices can be identified by rating plates that comply with standards IEC 81346-1 and 81346-2.

4. Maintenance planning

Maintenance must be planned by the installation technician on the basis of information provided by the panel builder: this latter must group together all the documentation required by the manufacturer and add to it according to his experience. The maintenance activities include:

Technical details and certifications

Routine and supplementary maintenance schedule

Routine maintenance for the purpose of preventing faults and inefficiency, and to limit switchboard deterioration. Operations must be planned to ensure that all the switchgears and controlgears remain in a good condition and continue to function properly.
A check-list such as the one given in table 2 can be used for planning routine maintenance.

Supplementary maintenance following an earthquake
Make sure that no part of the structure has collapsed, especially the uprights and cross-pieces, and that the switchboard is able function correctly and provide the required performance. Also check the mechanical and electrical characteristics, IP, IK and insulation. Proceed as indicated for routine maintenance (see table 2).

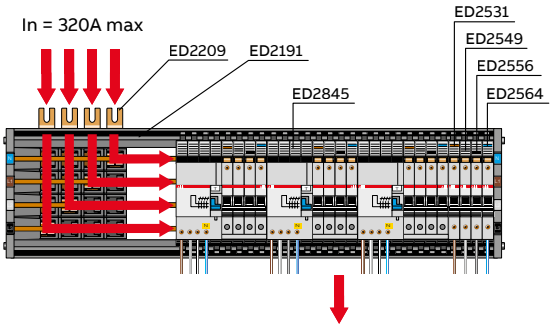
Table 2

Pos.	Type of inspection	Monthly	Every 6 months	Yearly	Every 2 years
1	Make sure that identification plate is present and that circuit diagram is available			✓	
2	Check that switchboard is undamaged		✓		
3	Check mechanical connections of switchboard structure				✓
4	Visually check for mechanical, thermal and electrical damage, including oxidation if present			✓	
5	Make sure that equipment and circuit diagram correspond			✓	
6	Check settings of protection devices on the basis of the loads measured			✓	
7	Make sure that measuring instruments are efficient		✓		
8	Check that fuses and signaling lamps are undamaged (auxiliary circuits in general)		✓		
9	Test mechanical operation of the equipment		✓		
10	Perform a functional test of the residual current protection devices	✓			
11	Functional test of MV/LV drag. (if present)			✓	
12	Functional test of safety circuits	✓			
13	Verification of connections to earthing system and protection conductors			✓	
14	Inspection of the tightening torque values of bolted components			✓	
15	Inspection of terminal box, tightening torque values and connections of cables, busbars and busbar holders			✓	
16	General cleaning of switchboard and relative switchgear and controlgear			✓	

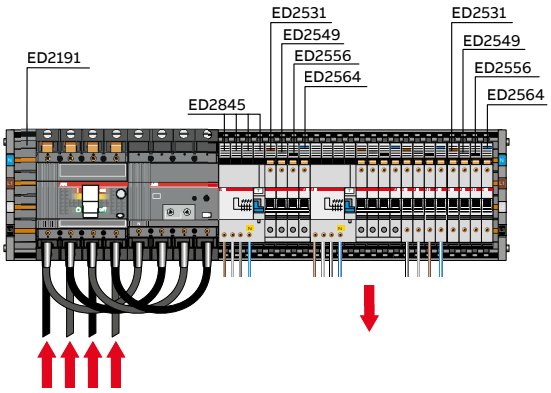
Technical details and certifications
Connection examples - Unifix H

Unifix H frame with 400A busbars 24 and 36 DIN modules

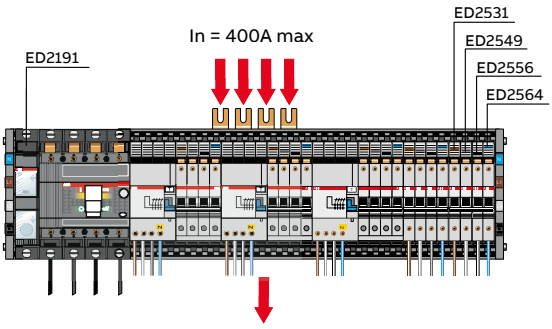
Busbars supplied from above by means of a 4P feeder module installed laterally



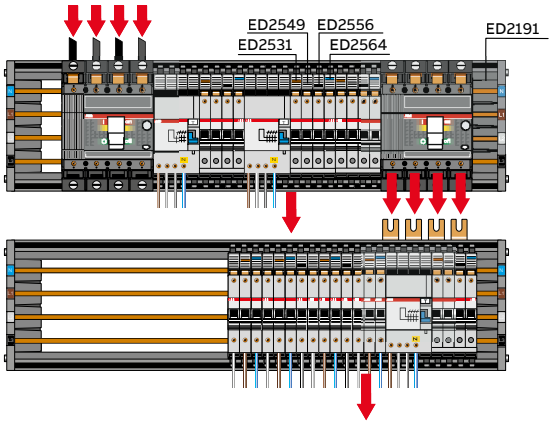
Busbars supplied from below by means of a 4P feeder module installed laterally



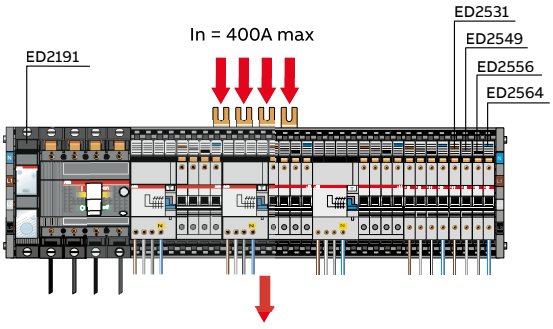
Busbars supplied from above by means of a 4P feeder module installed centrally



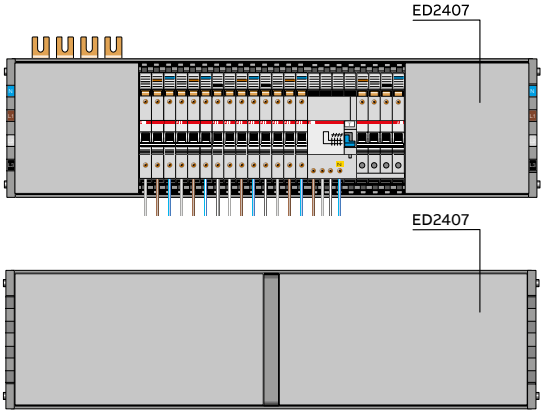
Power supply by means of circuit-breaker supplied from above



Power supply by means of circuit-breaker supplied from below



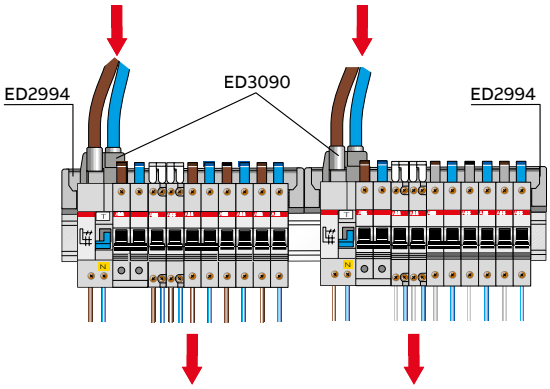
Covers for IP 20 protection class



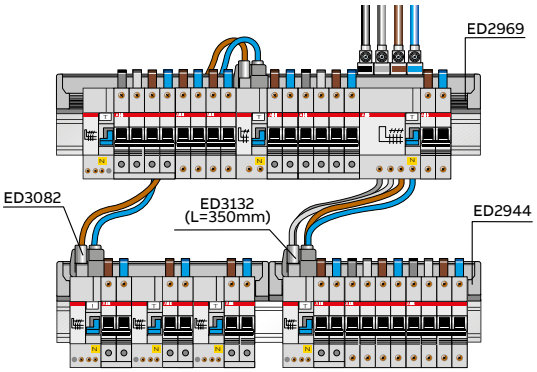
Technical details and certifications
Connection examples - Unifix L

Unifix L frame with 100A busbars 12/18/24 DIN modules

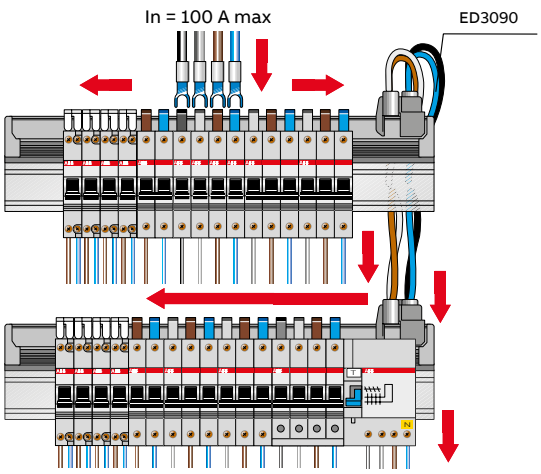
Two different single-phase circuits on a single DIN rail with 24 modules



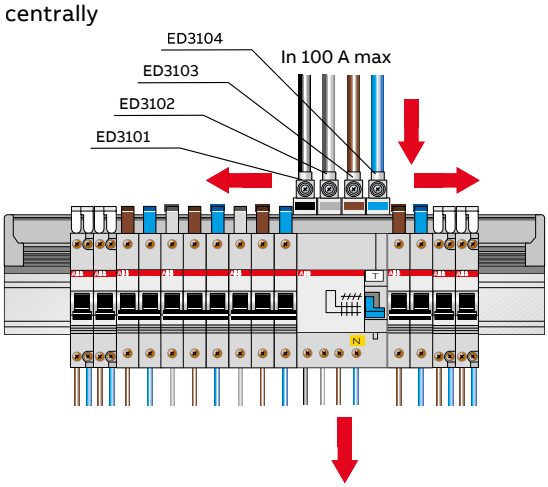
Example of main and branched power supply



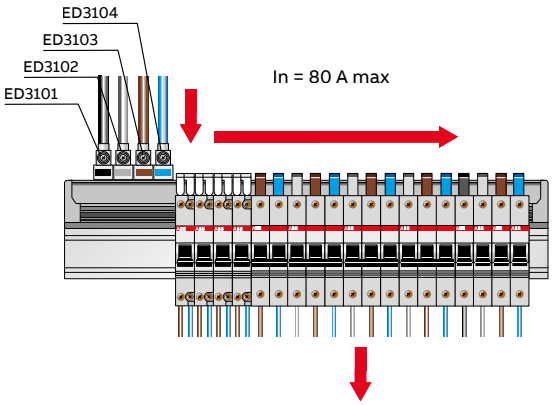
Busbars supplied by means of cable terminal under the head of the circuit-breaker's terminal and branching with parallel module



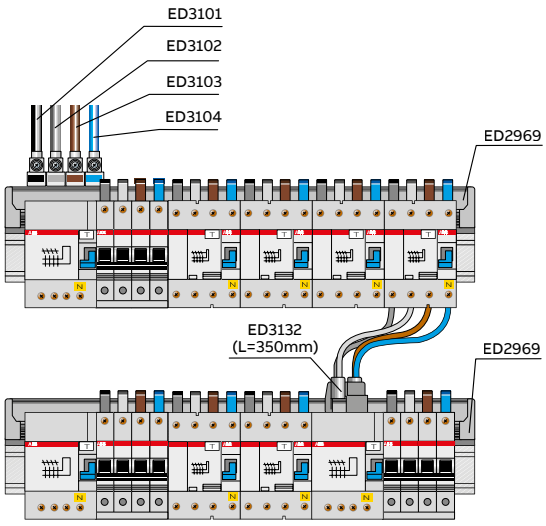
Busbars supplied by means of terminals installed centrally



Busbars supplied from above by means of terminals installed laterally



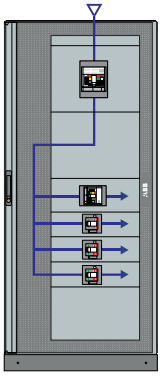
Busbars supplied directly by means of feeder module (supplied without cables) and branching by means of feeder module



Technical details and certifications
Configuration examples

2000x800x300mm (HxWxD) structure with H=100mm plinth, internal cable compartment, IP65 protection class. 1000A vertical busbar system installed at the side of the cable compartment.

T6 main circuit-breaker fixed vertically. Fixed frame. T4 circuitbreaker kit fixed horizontally, No. 3 XT1 fixed horizontally.

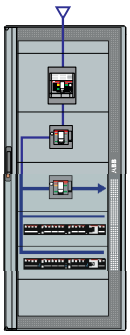


Quantity	Type	Description	Reference chapter
1	PUPM2000	No.4 galvanized sheet metal uprights H=2000mm	Structure
1	PUCM2000	No. 4 galvanized sheet metal cross-pieces W=800mm	Structure
1	PCFM0800	No. 4 galvanized sheet metal cross-pieces W/D=300mm	Structure
1	PCFM0300	No. 4 galvanized sheet metal plinth angle pieces H=100mm	Structure
1	PPAM0100	No. 2 front/rear plinth flanges H=100mm W=800mm	Structure
1	PPFM1080	No. 2 side plinth flanges H=100mm W/D=300mm	Structure
1	PPFM1030	Blind Top/Bottom IP65 W=800mm D=300mm	Structure
1	PTBB8036	Open Top/Bottom IP65 W=800mm D=300mm	Structure
1	PTBO8030	Incoming cable flange 800x300mm	Structure
1	PFCF8030	External cover IP65 H=2000mm W=800mm	Structure
1	PPEB2086	External cover IP65 H=2000mm W/D=300mm	Structure
2	PPEB2036	Blind door for int.cable comp. H=2000mm L=200mm	Structure
1	PDCB2020	Glass door IP65 H=2000mm W=800mm	Structure
1	PDLG2062	Upright for cable comp. in galv. sheet metal H=2000mm	Structure
1	PFPF2060	Fixed frame for panels H=2000mm L=600	Internal kits
1	PVCT6401	Kit with 3-4P T6 fixed vertical installation W=600mm	Internal kits
1	PHCT4406	Kit with 3-4P T4 fixed horizontal installation W=600mm	Internal kits
3	PHCX1401	Kit with 3-4P XT1 fixed horizontal installation W=600mm	Internal kits
1	PPFB1560	Flat blind panel H=150mm W=600mm	Internal kits
2	PPFB4060	Flat blind panel H=400mm W=600mm	Internal kits
8	PBFC4005	Flat copper bar 40x5 L=1750mm	Main distribution systems
2	PCRM0238	No. 2 galvanized sheet metal cross-pieces W=238mm	Main distribution systems
2	PBHB1125	No. 24 busbar insulating supports L=50mm	Main distribution systems
2	PTRA0100	No. 6 steel tie rods L=180mm for In<4000A	Main distribution systems
2	PCRM0288	No. 2 galvanized sheet metal cross-pieces W=288mm	Main distribution systems
1	PBBV0008	No. 8 busbar plates vertical side	Main distribution systems

Technical details and certifications

Configuration examples

1800x600x300mm (HxWxD) structure without plinth, IP65 protection class. 630A vertical busbar system installed at the rear of the structure. T5 main circuit-breaker fixed vertically.
Kit with No.2 XT2 circuit-breakers fixed vertically.



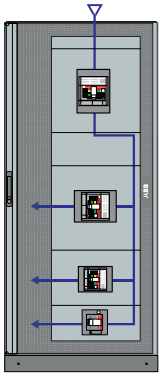
Quantity	Type	Description	Reference chapter
1	PUPM1800	No. 4 galvanized sheet metal uprights H=1800mm	Structure
1	PCFM0600	No. 4 galvanized sheet metal cross-pieces W=600mm	Structure
1	PCFM0300	No. 4 ga lvanized sheet metal cross-pieces W/D=300mm	Structure
1	PTBB6030	Blind Top/Bottom IP40 L=600mm d=300mm	Structure
1	PBWP6030	Internal bottom IP40 L=600mm D=300mm	Structure
1	PPEB1860	External rear cover IP40 H=1800mm W=600mm	Structure
2	PPEB1830	External side cover IP40 H=1800mm W/D=300mm	Structure
1	PDLG1860	Glass door IP40 H=1800mm W=600mm	Structure
1	PFPF1860	Fixed frame for panels H=1800mm W=600	Internal kits
1	PVCT5406	Kit with 3-4P T5 fixed+vertical (400/630A)mrd W=600mm	Internal kits
2	PVCX2401	Kit with 3-4P XT2 fixed vertical installation W=600mm	Internal kits
2	PDRS0600	Standard DIN rail W=600mm	Internal kits
2	PPMF2060	Panel with 24 DIN modules H=200mm W=600mm	Internal kits
1	PPFB1560	Flat blind panel H=150mm W=600mm	Internal kits
1	PPFB3060	Flat blind panel H=300mm W=600mm	Internal kits
2	PBFC5005	Flat copper bar 50x5 L=1750mm	Main distribution systems
3	PCRM0238	No. 2 galvanized sheet metal cross-pieces W=238mm	Main distribution systems
2	PBHB1125	No. 24 busbar insulating supports L=50mm	Main distribution systems
3	PTRA0075	No. 6 steel tie rods L=150mm for In<4000A	Main distribution systems
3	PCRM0588	No. 2 galvanized sheet metal cross-pieces W=588mm	Main distribution systems
2	PBBV0008	No. 8 busbar plates vertical side	Main distribution systems

Technical details and certifications

Configuration examples

2000x800x500mm (HxWxD) structure with H=100mm plinth, internal cable compartment, IP65 protection class. 1600A vertical busbar system installed at the side of the structure.

T7 main circuit-breaker fixed vertically.
Swing frame.
Horizontal removable T6 kit, horizontal removable T5, horizontal removable XT4.

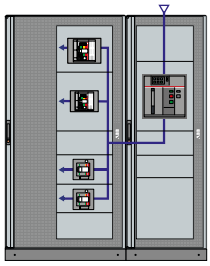


Quantity	Type	Description	Reference chapter
1	PUPM2000	No. 4 galvanized sheet metal uprights H=2000mm	Structure
1	PCFM0800	No. 4 galvanized sheet metal cross-pieces W=800mm	Structure
1	PCFM0500	No. 4 galvanized sheet metal cross-pieces W/D=500mm	Structure
1	PPAM0100	No. 4 galvanized sheet metal plinth angle pieces H=100mm	Structure
1	PPFM1080	No. 2 front/rear plinth flanges H=100mm L=800mm	Structure
1	PPFM1050	No. 2 side plinth flanges H=100mm W/D=500mm	Structure
2	PTBB8056	Blind Top/Bottom IP65 L=800mm D=500mm	Structure
1	PPEB2086	External cover IP65 H=2000mm W=800mm	Structure
2	PPEB2056	External cover IP65 H=2000mm W=500mm	Structure
1	PDCB2020	Blind door for int.cable comp. H=2000mm W=200mm	Structure
1	PDLG2062	Glass door IP65 H=2000mm W=800mm	Structure
1	PUCM2000	Upright for cable comp. in galv. sheet metal H=2000mm	Structure
1	PCCM0500	No. 2 galvanized sheet metal cross-pieces VC D=500mm	Structure
2	PUKI2000	Swing frame for panels H=2000mm W=600	Structure
1	PFPS2060	Int. kit intermediate upright H=2000mm	Structure
1	PVCT7419	Kit with 3-4P T7 fixed vertical installation W=600mm	Internal kits
1	PHCT6410	Kit with 3-4P T6 removable horizontal installation W=600mm	Internal kits
1	PHCT5414	Kit with 3-4P T5 removable (400A) horizontal installation W=600mm	Internal kits
1	PHCX4410	Kit with 3-4P XT4 removable horizontal installation W=600mm	Internal kits
1	PPFB1560	Flat blind panel H=150mm W=600mm	Internal kits
1	PPFB2060	Flat blind panel H=200mm W=600mm	Internal kits
4	PBFC1001	Flat copper bar 100x10 W=1750mm	Main distribution systems
3	PCRM0238	No. 2 galvanized sheet metal cross-pieces W=238mm	Main distribution systems
1	PBHB1125	No. 24 busbar insulating supports W=50mm	Main distribution systems
2	PTRA0100	No. 6 steel tie rods L=180mm for In<4000A	Main distribution systems
1	PBBV0008	No. 8 busbar plates vertical side	Main distribution systems
1	PCBS1560	Blind compartment H=150mm W=600mm	Segregations
1	PPVS2450	No.2 lateral segregation cell H=450mm	Segregations
1	PCBS2060	Blind compartment H=200mm W=600mm	Segregations
1	PPVS2500	No.2 lateral segregation cell H=500mm	Segregations
1	PPVS2350	No.2 lateral segregation cell H=350mm	Segregations
1	PPVS2250	No.2 lateral segregation cell H=250mm	Segregations
4	PSHS1906	Horizontal shelf W=600mm	Segregations

Technical details and certifications

Configuration examples

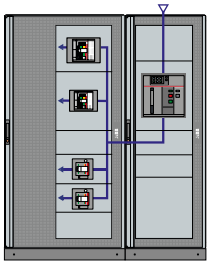
2000x600x700mm + 2000x1000x700 (HxWxD) structure with H=100mm plinth, L400mm cable compartment inside the W=1000mm structure, IP40 protection class. 2500A horizontal busbar system at any height in the unit W=600mm and vertically on the side of the structure W=1000mm. E2.2 removable main circuit-breaker fixed vertically. Fixed frame. Kit with horizontal removable 4-pole T7, horizontal removable 4-pole T6, 2 horizontal removable XT2.



Quantity	Type	Description	Reference chapter
2	PUPM2000	No. 4 galvanized sheet metal uprights H=2000mm	Structure
1	PCFM1000	No. 4 galvanized sheet metal cross-pieces W=1000mm	Structure
1	PCFM0600	No. 4 galvanized sheet metal cross-pieces W=600mm	Structure
2	PCFM0700	No. 4 galvanized sheet metal cross-pieces D=700mm	Structure
2	PPAM0100	No. 4 galvanized sheet metal plinth angle pieces H=100mm	Structure
1	PPFM1010	No. 2 front/rear plinth flanges H=100mm W=1000mm	Structure
1	PPFM1070	No. 2 side plinth flanges H=100mm D=700mm	Structure
1	PPFM1060	No. 2 front/rear plinth flanges H=100mm W=600mm	Structure
1	PTBB6070	Blind Top/Bottom IP40 L=600mm D=700mm	Structure
1	PTBO6070	Open Top/Bottom IP65 L=600mm D=700mm	Structure
2	PTBB1070	Blind Top/Bottom IP40 L=1000mm D=700mm	Structure
1	PPEB2060	External cover IP30/40 H=2000mm W=600mm	Structure
1	PPEB2010	External cover IP30/40 H=2000mm W=1000mm	Structure
2	PPEB2070	External cover IP30/40 H=2000mm D=700mm	Structure
1	PDLG2060	Glass door IP40 H=2000mm W=600mm	Structure
1	PDLG2640	Glass door IP40 H=2000mm W=1000mm	Structure
1	PUCM2000	Galvanized sheet metal cable uprights H=2000mm	Structure
1	PCCM0700	2 galvanized sheet metal cross-pieces D=700mm	Structure
1	PDCB2040	Blind door for int.cable comp. H=2000mm W=400mm	Structure
1	PSBS0040	Kit for joining side structures IP40	Structure
5	PUKI2000	Internal kit intermediate upright H=2000mm	Structure
2	PFPF2060	Fixed frame for panels H=2000mm L=600	Structure
1	PPFB6060	Flat blind panel H=600mm W=600mm	Internal kits
1	PPFB4060	Flat blind panel H=400mm W=600mm	Internal kits
3	PPFB2060	Flat blind panel H=200mm W=600mm	Internal kits
1	PPFB3060	Flat blind panel H=300mm W=600mm	Internal kits
1	PVCE2450	Kit with vertical 3-4 pole Emax E2.2 600x600	Internal kits
1	PHCT7430	Kit with 3-4P T7 removable horizontal installation W=600mm	Internal kits
1	PHCT6410	Kit with 3-4P T6 removable horizontal installation W=600mm	Internal kits
2	PHCX2410	Kit with 3-4P XT2 removable horizontal installation W=600mm	Internal kits
1	PPMB6060	Blind mounting plate H=600mm W=600mm	Internal kits
12	PBFC1001	Flat copper bar 100x10 L=1750mm	Main distribution systems

Technical details and certifications

Configuration examples



Quantity	Type	Description	Reference chapter
3	PCRM0338	No. 2 galvanized sheet metal cross-pieces W=338mm	Main distribution systems
1	PCRM0588	No. 2 galvanized sheet metal cross-pieces W=588mm	Main distribution systems
2	PBHB2145	No. 24 busbar insulating supports L=75mm	Main distribution systems
3	PTRA0100	No. 6 steel tie rods L=180mm for In<4000A	Main distribution systems
3	PCRM0438	No. 2 galvanized sheet metal cross-pieces W=438mm	Main distribution systems
1	PBBH0004	No. 4 busbar plates at all heights	Main distribution systems
1	PBBV0008	No. 8 busbar plates vertical side	Main distribution systems
2	PSHW5061	Segregation for Form 2a-3a T7 withdrawable H=500mm W=600mm	Segregations
2	PSVS0055	Segregations for horizontal breakers terminals H=500mm D=700mm	Segregations
2	PCVS5060	Cubicles Form 4b T7 withdrawable H=500mm W=600mm	Segregations
5	PCBS2060	Blind Compartment H=200mm W=600mm	Segregations
5	PPBS0200	Lateral segregation for blind compartment H=200mm	Segregations
1	PSVS0207	Rear segregation for blind compartment H=200mm	Segregations
1	PCBS3060	Blind compartment H=300mm W=600mm	Segregations
1	PPBS0300	Lateral segregation for blind compartment H=300mm	Segregations
1	PSVS0307	Rear segregation for blind compartment H=300mm	Segregations
2	PPVS2250	N.2 lateral cell segregations H=250mm	Segregations
2	PSVS2570	Segregation for horizontal breakers terminals H=250mm D=700mm	Segregations
2	PCVS1256	Cubicles P1 for breakers kit H=250mm W=600mm	Segregations
2	PRVS1061	Rear segregation for structure busbars side H=1000mm W=600mm	Segregations
1	PPVS2600	No.2 lateral cell segregations H=600mm	Segregations
1	PSVW6062	Segregation 2a-3a E2.2 withdrawable H=600mm W=600mm	Segregations
1	PSHW6072	Horizontal segregation 3b E2.2 withdrawable W=600mm D=700mm	Segregations
1	PRVS3060	Rear segregation H=300MM W=600MM for structure without intermediate upright	Segregations
2	PMCS3070	No.2 lateral connection modules H=300mm D=700mm	Segregations
2	PBMC0002	No.2 fixing brackets for connection modules	Segregations
2	PLVS4072	Rear lateral segregation for compartment H=400MM D=700MM for structure with rear intermediate upright	Segregations
1	PRVS7060	Segregazione verticale posteriore H=700MM W=600MM for structure without rear intermediate upright	Segregations
1	PRVS1060	Segregazione verticale posteriore H=1000MM W=600MM for structure without rear intermediate upright	Segregations
7	PSHS1906	Horizontal shelf W=600mm	Segregations

Technical details and certifications
Ventilation and air conditioning

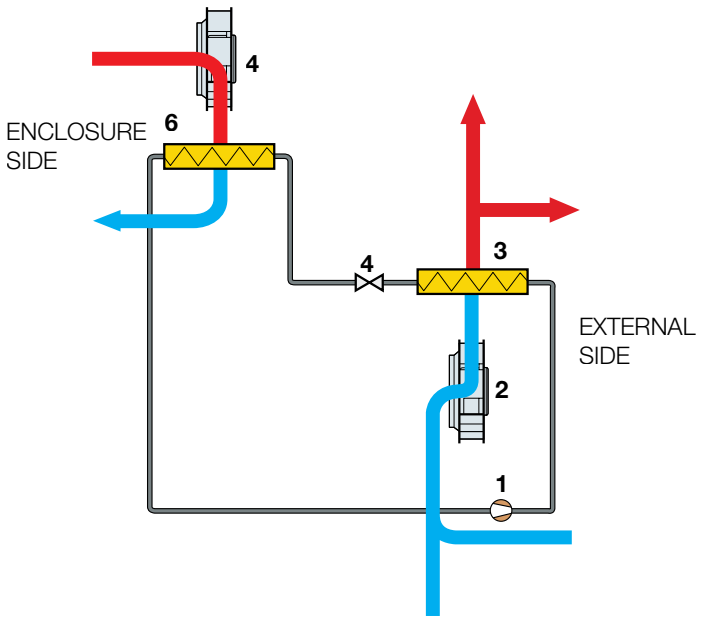
Air conditioner for mounting on wall or on door

CE

Model			VZ1550K		VZ1850K		VZ1400K		VZ2000K	
Standard electrical power supply	V~(single-phase))		230		230		230		230	
Frequency		Hz	50	60	50	60	50	60	50	60
Refrigerating yield		W	605	670	810	900	1300	1480	1926	2200
Total power consumption		W	330	360	400	450	650	720	800	920
Absorbed current	on inrush	A	8		12,5		21		22	
	operating	A	2		2,5		4		4,5	
Current protection		A	4,9		5,9		8		10	
Air evaporator capacity		m³/h	380		350		350		500	
Air condenser capacity		m³/h	400		400		600		950	
Degree of protection on enclosure side		IP	54		54		54		54	
Refrigerating gas (standard)			R 134 A		R 134 A		R 134 A		R 134 A	
Permissible external temperature		°C	55		55		55		55	
Noise		dB(A)	64		64		66		66	
Dimensions HxWxD		mm	1025x380x198		1025x380x198		1025x380x198		1100x380x230	
Approximate weight		kg	33		33		36		42	
Standard painting		RAL	7035 orange peel		7035 orange peel		7035 orange peel		7035 orange peel	



Basic cooling circuit diagram



1 Compressor
2 Condenser section fan
3 Condensing coil
4 Expansion valve
5 Treatment section fan
6 Evaporating coil

Technical details and certifications

Ventilation and air conditioning

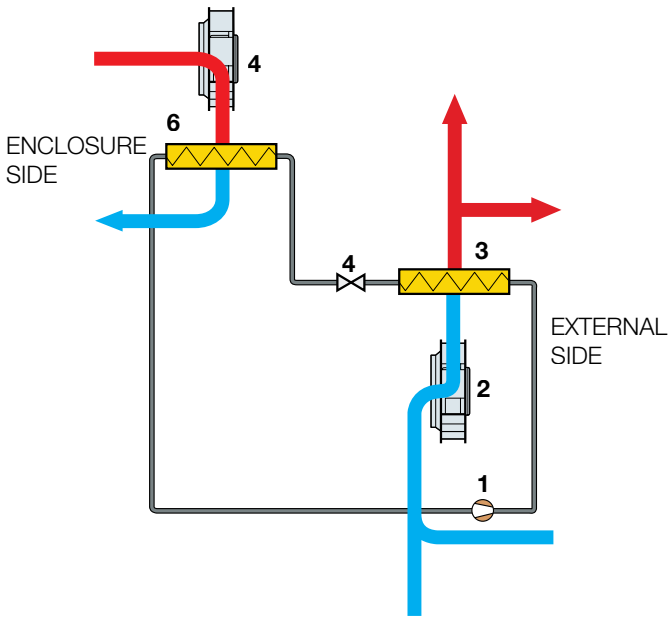
Air conditioner for mounting on roof

CE

Model			VZ8501K		VZ1401K	
Standard electrical power supply	V~(monofase)		230		230	
Frequency		Hz	50	60	50	60
Refrigerating yield		W	810	900	1300	1480
Total power consumption		W	400	450	650	720
Absorbed current	on inrush	A	12,5		21	
	operating	A	2,5		4	
Current protection		A	5,9		8	
Air evaporator capacity		m³/h	350		350	
Air condenser capacity		m³/h	400		600	
Degree of protection on enclosure side		IP	54		54	
Refrigerating gas (standard)			R 134 A		R 134 A	
Permissible external temperature		°C	55		55	
Noise		dB(A)	64		66	
Dimensions HxWxD		mm	350x600x400		350x600x400	
Approximate weight		kg	33		34	
Standard painting		RAL	7035 orange peel		7035 orange peel	



Basic cooling circuit diagram



1 Compressor
2 Condenser section fan
3 Condensing coil
4 Expansion valve
5 Treatment section fan
6 Evaporating coil

Technical details and certifications

Ventilation and air conditioning

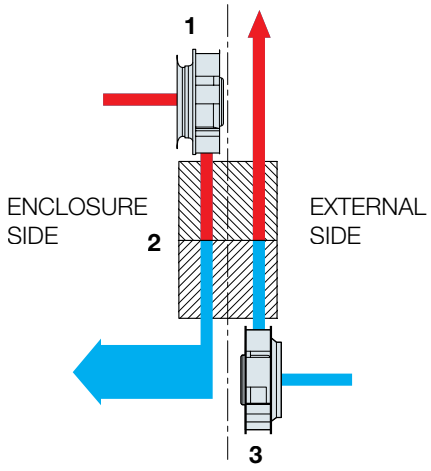
Air conditioner for mounting on roof

CE

Model		VS4235K	VS6285K
Specific thermal yield	W/K	35	85
Total power consumption	W	117/150	170/180
Power supply standard	V~(monofase)	230	230
Frequency	Hz	50/60	50/60
Absorbed current	A	0,52/0,68	0,77/0,80
Internal circuit fan air capacity	m3/h	200	200
External circuit fan air capacity	m3/h	200	300
Degree of protection on enclosure side		IP 54	IP 54
Permissible external temperature	°C	55	55
Dimensions HxWxD	mm	735x370x155	845x475x195
Approximate weight	kg	15	21
Standard painting	RAL	7035 orange peel	7035 orange peel



Basic cooling circuit diagram



Technical details and certifications

Ventilation and air conditioning

Air conditioner for mounting on roof

CE

Characteristic	U.m.	EN1105K	EN2105K	EN1150K	EN2150K	EN1204K
Capacity air	m^3/h	23/30	23/30	57/61	57/61	120/135
Standard power supply (single-phase)	V a.c.	230	115	230	115	230
Frequency	Hz	50/60	50/60	50/60	50/60	50/60
Total power consumption	W	10/8	9/7	20/19	20/19	17/15
Rated current	A	0.07/0.055	0.115/0.092	0.125/0.110	0.210/0.180	0.100/0.090
Rotation speed	rpm	2700	2700	2650	2650	2700
Noise	dB(A)	33/38	33/38	46/49	46/49	46/50
Operating temperature	°C	-10+50	-10+50	-10+50	-10+50	-10+50
Electrical life	h	45.000	45.000	45.000	45.000	45.000
Degree of protection	IP	54	54	54	54	54
Class		I	I	I	I	I
Weight	Kg	0,5	0,5	0,8	0,8	1,1
Protection		Impedance	Impedance	Impedance	Impedance	Impedance
Electric connection		Wires	Wires	2-pole term.	2-pole term.	3-pole term.
Mounting		No screws	No screws	No screws	No screws	No screws
Flow direction		Reversible	Reversible	Reversible	Reversible	Reversible
Bearing		Bearings	Bearings	Bearings	Bearings	Bearings
Dimensions	mm (lxhxp)	105x105x67	105x105x67	150x150x71	150x150x71	204x204x98
Colour	RAL	7035	7035	7035	7035	7035
Approvals		CE, UL	CE, UL	CE, UL	CE, UL	CE, UL

Characteristic	U.m.	EN2204K	EN1250K	EN2250K	EN2325K	EN3325K
Capacity air	m^3/h	120/135	240/270	240/270	520/580	520/580
Standard power supply (single-phase)	V a.c.	115	230	115	230	115
Frequency	Hz	50/60	50/60	50/60	50/60	50/60
Total power consumption	W	17/15	29/29	30/30	67/87	50/64
Rated current	A	0.200/0.160	0.132/0.130	0.265/0.274	0.300/0.382	0.540/0.650
Rotation speed	giri/min	2700	2800	2800	2770	3120
Noise	dB(A)	46/50	50/55	50/55	65/68	66/69
Operating temperature	°C	-10+50	-10+50	-10+50	-10+50	-10+55
Electrical life	h	45.000	45.000	45.000	50.000	53.000
Degree of protection	IP	54	54	54	54	54
Class		I	I	I	I	I
Weight	Kg	1,1	1,7	1,7	3,7	3,7
Protection		Impedance	Thermal	Thermal	Thermal	Thermal
Electric connection		3-pole term.	3-pole term.	3-pole term.	3-pole term.	3-pole term.
Mounting		No screws	No screws	No screws	No screws	No screws
Flow direction		Reversible	Reversible	Reversible	Reversible	Reversible
Bearing		Bearings	Bearings	Bearings	Bearings	Bearings
Dimensions	mm (lxhxp)	204x204x98	250x250x121	250x250x121	325x325x161	325x325x161
Colour	RAL	7035	7035	7035	7035	7035
Approvals		CE, UL	CE, UL	CE, UL	CE	CE

In any forced ventilation kit, the fan wheel is balanced.
In the larger sizes (cod. EN2325K and cod. EN3325K) there is the balancing clip.
The balanced fan wheel ensures less noise and absorption.



Technical details and certifications

Ventilation and air conditioning

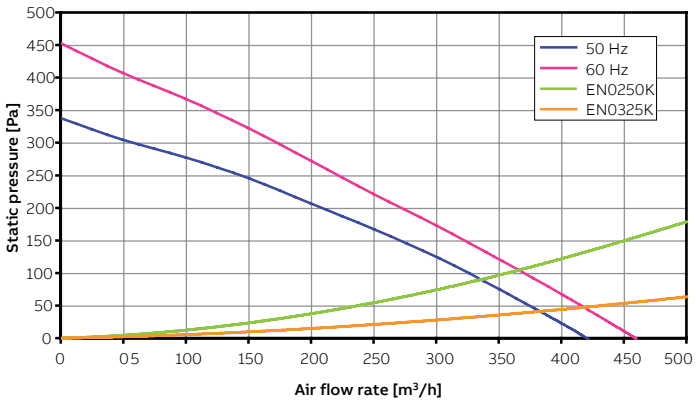
Ventilation towers

CE

Characteristic	U.m.	EN0480K	EN0482K	EN0484K	EN0485K
Capacity air	m^3/h	550/590	550/590	*420/490	*420/490
Standard power supply (single-phase)	V a.c.	230	115	115	230
Frequency	Hz	50/60	50/60	50/60	50/60
Total power consumption	W	62/78	58/71	66/74	70/83
Absorbed current	A	0.290/0.340	0.530/0.620	0.620/0.640	0.309/0.360
Rotation speed	rpm	2535	2500	2470	2510
Noise	dB(A)	68/71	61	68/71	68/71
Operating temperature	°C	-20+60	-20+60	-10+60	-10+60
Electrical life	h	50.000	50.000	75.000	59.000
Degree of protection	IP	23	23	54	54
Class		I	I	I	I
Weight	Kg	5,29	5,29	2,1	2,1
Protection		Thermal	Thermal	Thermal	Thermal
Electric connection		Wires	Wires	3-pole term.	3-pole term.
Mounting		Screws	Screws	Screws	Screws
Flow direction		Inside-out	Inside-out	Inside-out	Inside-out
Bearing		Bearings	Bearings	Bearings	Bearings
Dimensions	mm (lxhxp)	375x295x119	375x295x119	324x324x94	324x324x94
Colour	RAL	7035	7035	7035	7035
Approvals		CE	CE	CE	CE



*** Sample air flow m3/h**



Chapter 8
Overall dimensions

8–2 **Frame**

8–3 **Internal cable compartment**

8–3 **Intermediate upright**

8–3 **Adjacent structures**

8–4 **External covers**

8–9 **Internal kit**

8–20 **Main distribution systems**

8–26 **Segregations**

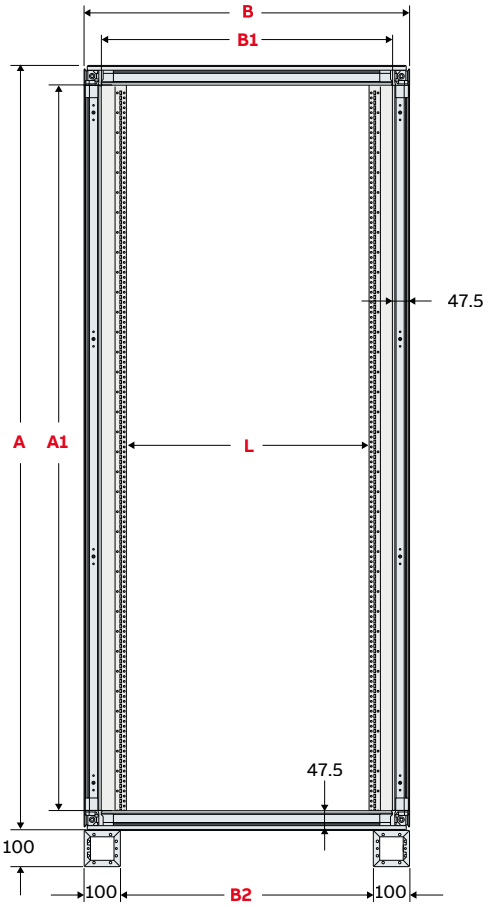
8–27 **Ventilation/Conditioning**

8–28 **Air conditioner**

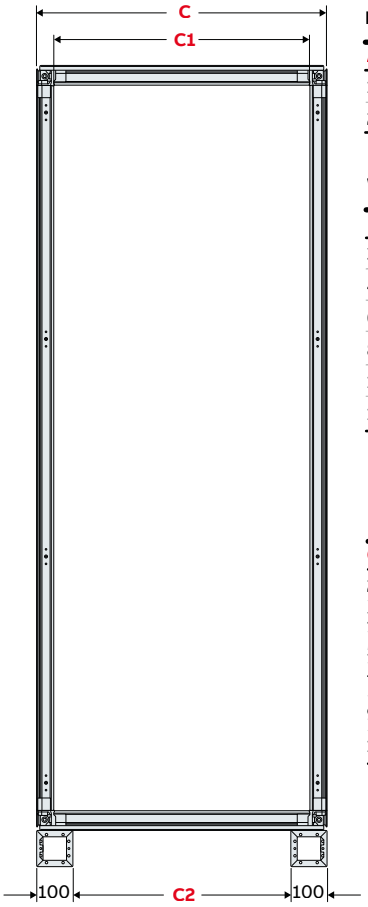
Overall dimensions

Frame

Front



Side



Height measurements (mm)

A	A1
1913	1804
2113	2004

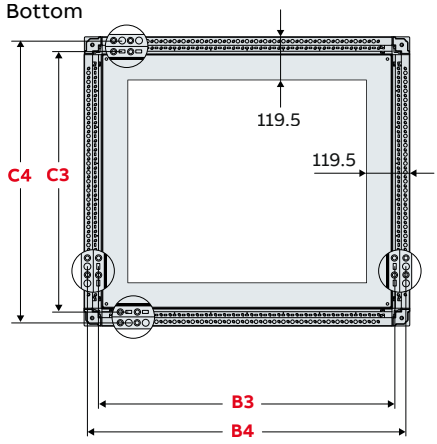
Width measurements (mm)

B	B1	B2	B3	B4	B5	B6	B7	B8	L
399	304	198	337	375	244	321	398	276	
499	404	298	437	475	344	421	498	376	265
699	604	498	637	675	544	621	698	576	465
899	804	698	837	875	744	821	898	776	665
1099	1004	898	1037	1075	944	1021	1098	976	865
1349	1254	1148	1287	1325	1194	1271	1348	1226	1115

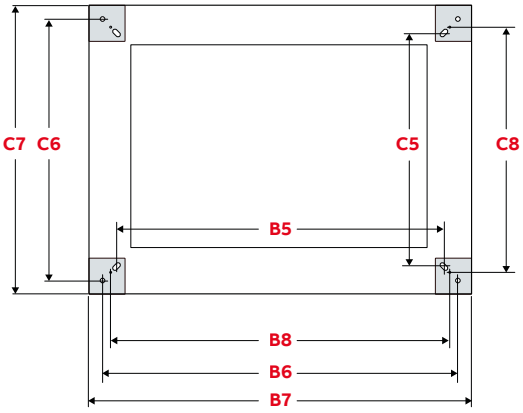
Depth measurements (mm)

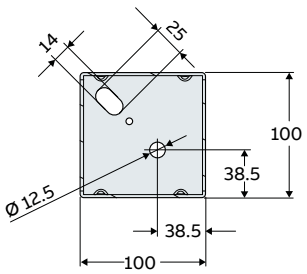
C	C1	C2	C3	C4	C5	C6	C7	C8
299	204	98	237	275	144	221	298	176
399	304	198	337	375	244	321	398	276
599	504	398	537	575	444	521	598	476
799	704	598	737	775	644	721	798	676
999	904	798	937	975	844	921	998	876
1349	1254	1148	1287	1325	1194	1271	1348	1226

Bottom



Fixing on floor



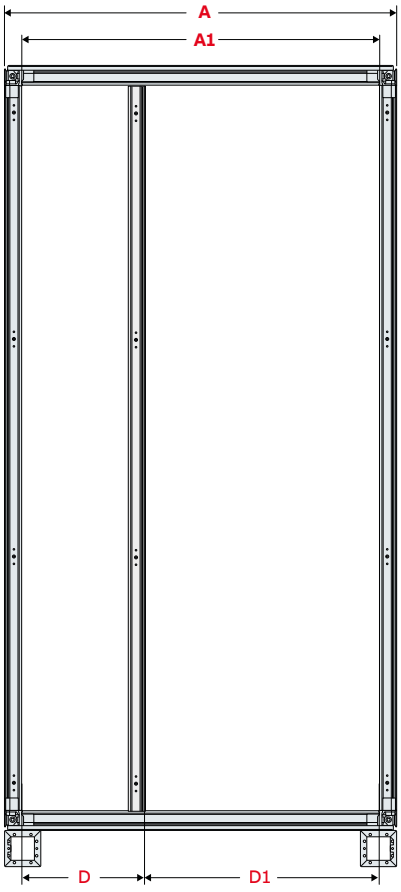


The measurements are given in millimeters

Overall dimensions

Internal cable compartment

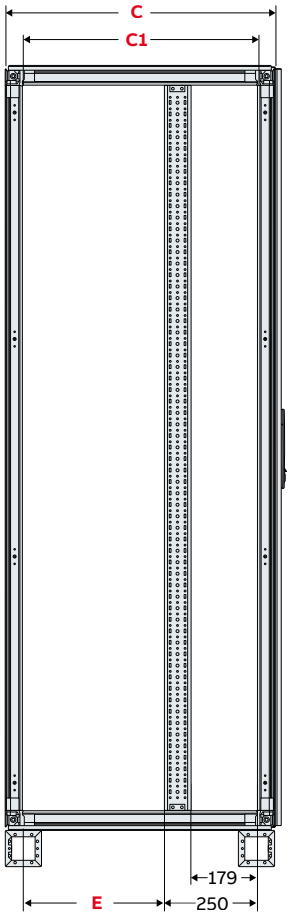
Front



A	A1	D	D1
699	604	200	404
899	804	200	604
		400	404
1099	1004	200	804
		400	604

Intermediate upright

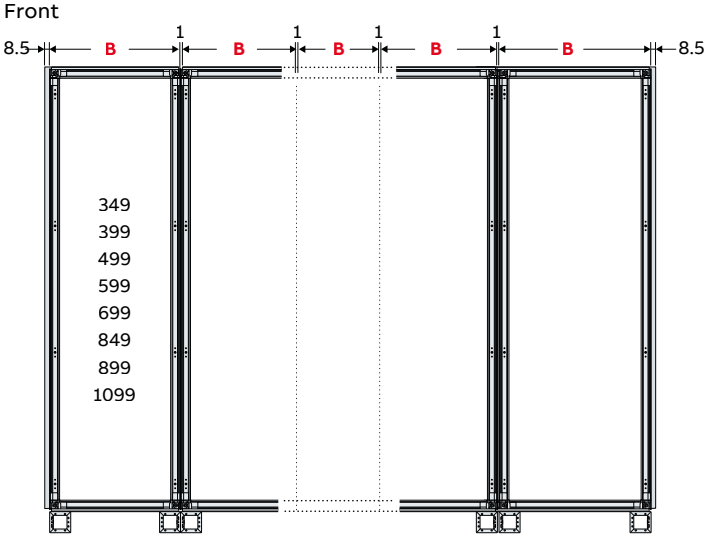
Side



C	C1	E
599	504	254
799	704	454
999	904	654
1349	1254	1004

Overall dimensions for several adjacent structures

Front



Side



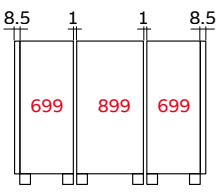
Total width calculation

1- add 1mm to the width of the columns (**B**+1) + (**B**+1)....

2- add 17mm for the 2 side panels (8.5+8.5=17mm)

3- subtract 1mm from the total (-1mm)

Example
(699+1) + (899+1) + (699+1) +17 - 1 = 2.316



Total depth calculation

C With door
(structure depth) + 48mm (rear cover space and door including handle)

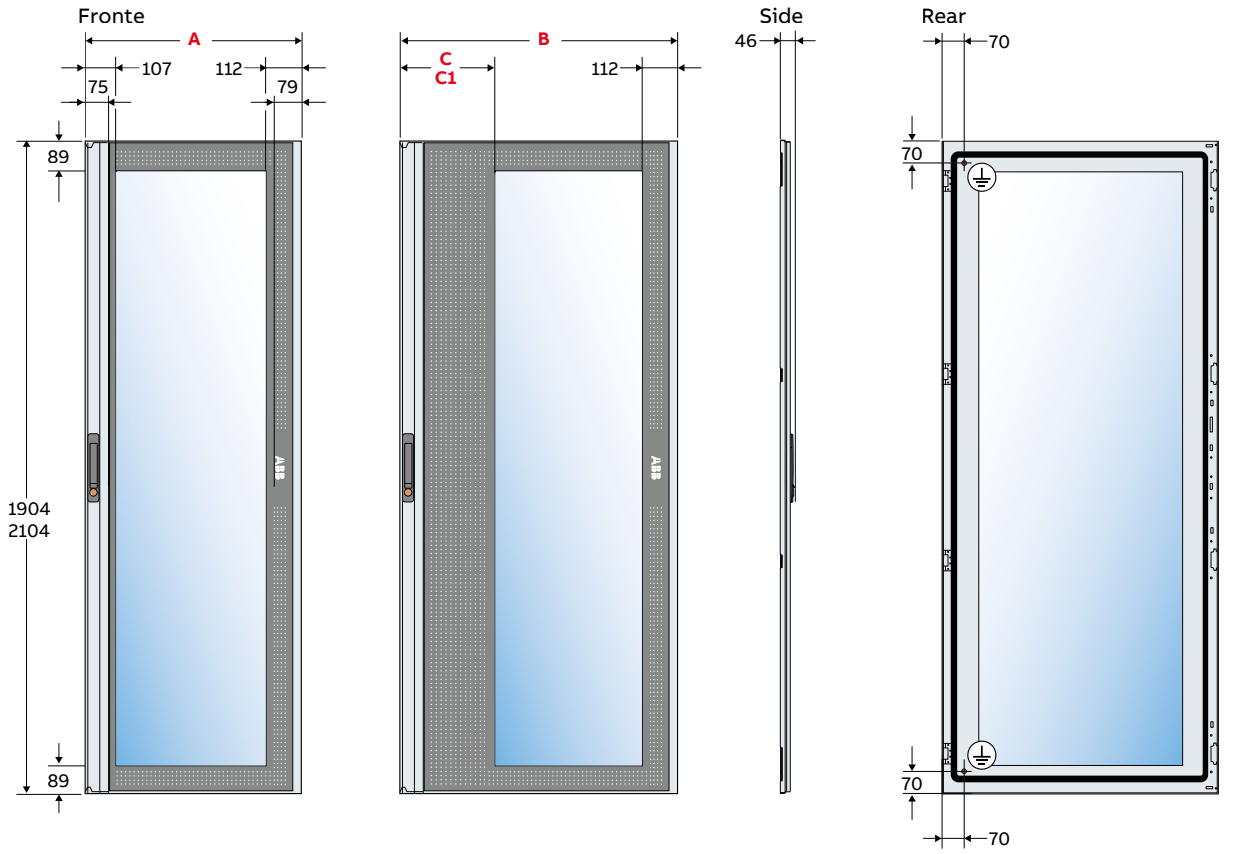
C With finishing profile
(structure depth) + 17mm (rear cover space and finishing profile)

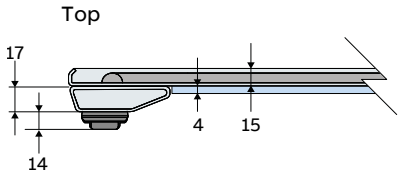
The measurements are given in millimeters

Overall dimensions

External covers

Glass doors





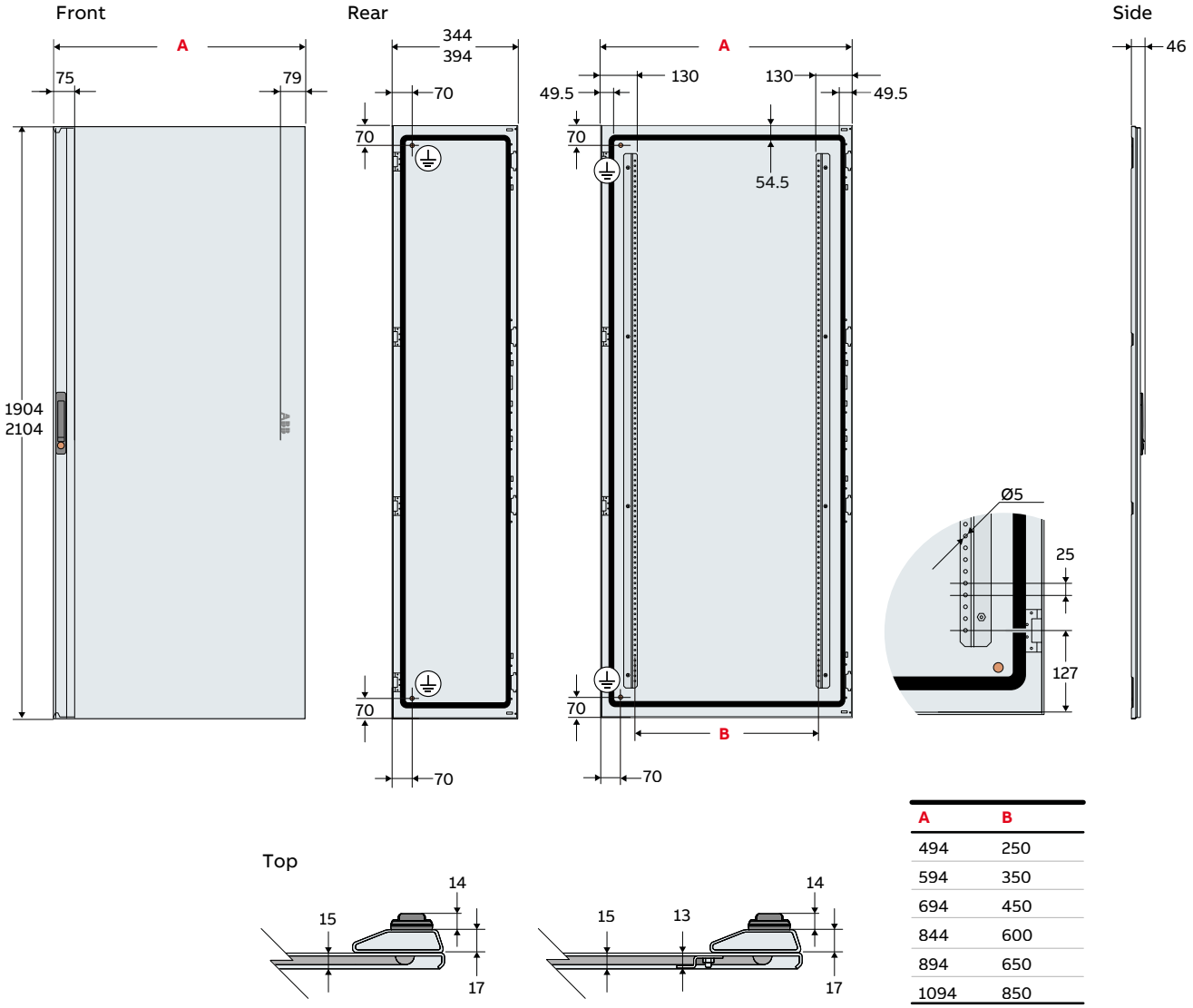
A	B	C	C1
494	-	-	-
594	-	-	-
694	-	-	-
844	-	-	-
894	894	307	-
1094	1094	307	507

The measurements are given in millimeters

Overall dimensions

External covers

Blind doors



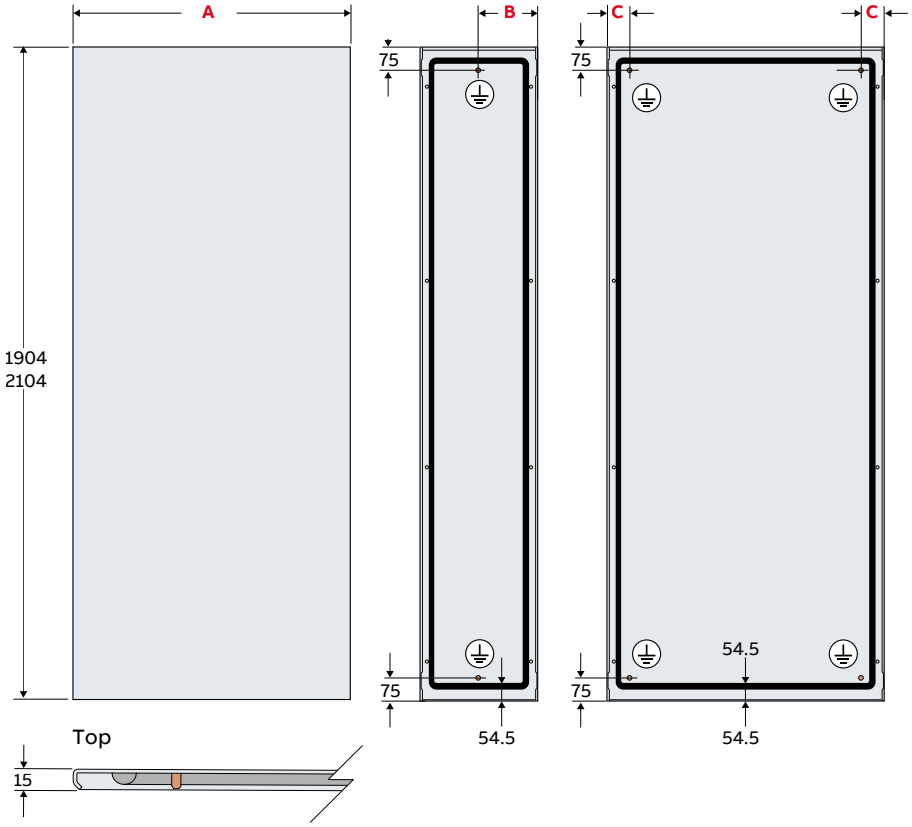
A	B
494	250
594	350
694	450
844	600
894	650
1094	850

The measurements are given in millimeters

Overall dimensions

External covers

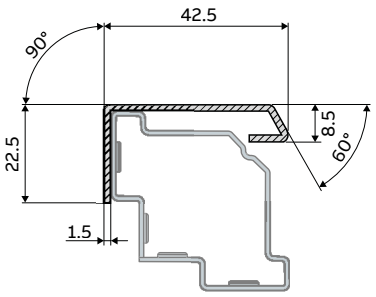
Rear, side panels



Rear panels		
A	B	C
339	169.5	
389	194.5	
489	244.5	
589		75
689		75
839		75
889		75
1089		75

Side panels		
A	B	C
289	144.5	
389	194.5	
589		75
789		75
989		75

IP3X front finish profiles

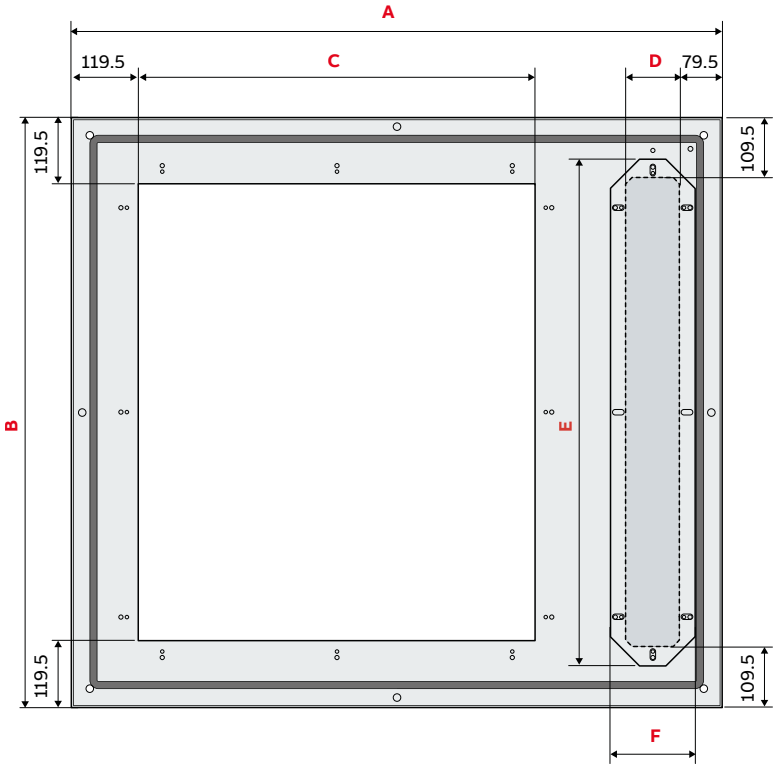


The measurements are given in millimeters

Overall dimensions

External covers

Open bottom for structures with internal cable compartment



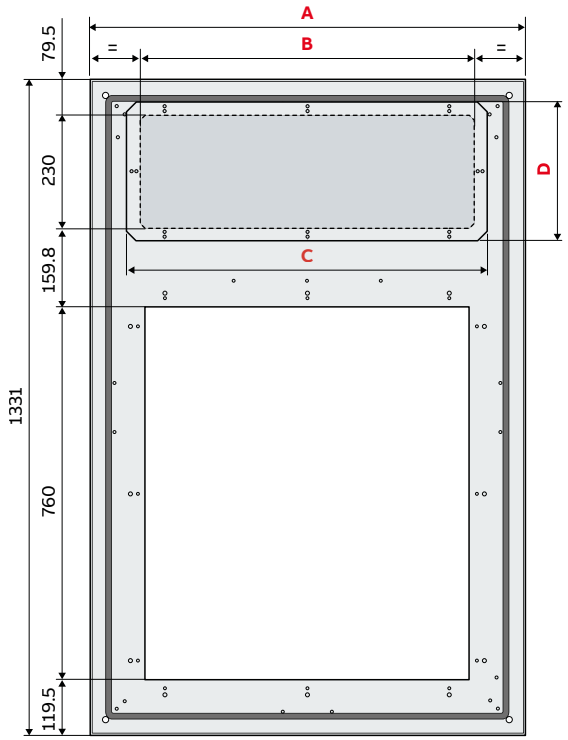
Structure W (mm)	D (mm)	Cable compartment W (mm)	A	B	C	D	E	F
800	300	200	881	381	460	89	240	140
	500		881	581			440	
	700		881	781			640	
	900		881	981			840	
1000	300		1081	381	660	89	240	
	500		1081	581			440	
	700		1081	781			640	
	900		1081	981			840	
1000	300	400	1081	381	460	289	240	340
	500		1081	581			440	
	700		1081	781			640	
	900		1081	981			840	

The measurements are given in millimeters

Overall dimensions

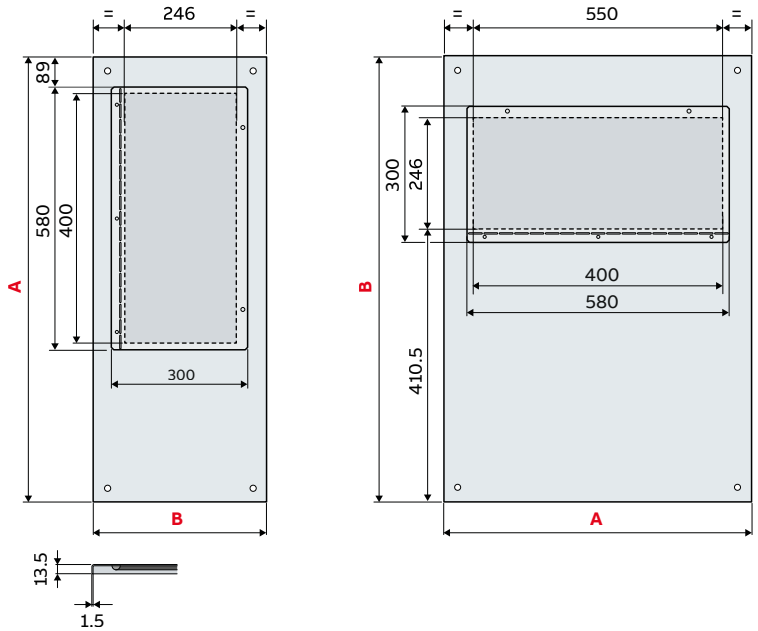
External covers

Top/Bottom D=1250mm



W (mm)	D (mm)	A	B	C	D
300	1250	381	160	235	281
400	1250	481	260	335	281
600	1250	681	460	535	281
800	1250	881	660	735	281
1000	1250	1081	860	935	281
1250	1250	1331	860	935	281

Blind top arc fault resistant



Code	A	B
PTAB3070	781	381
PTAB3090	981	381
PTAB4070	781	481
PTAB4090	981	481
PTAB6076	681	781
PTAB6096	681	981
PTAB8076	881	781
PTAB8096	881	981
PTAB1076	1081	781
PTAB1096	1081	981

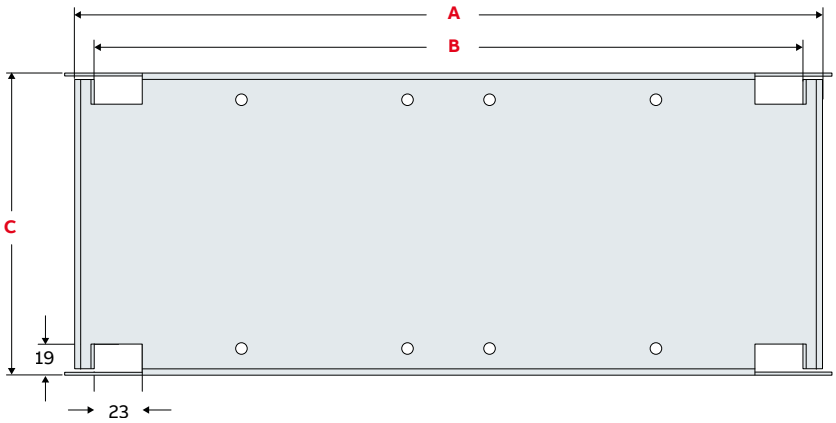
The measurements are given in millimeters

Overall dimensions

Internal kit

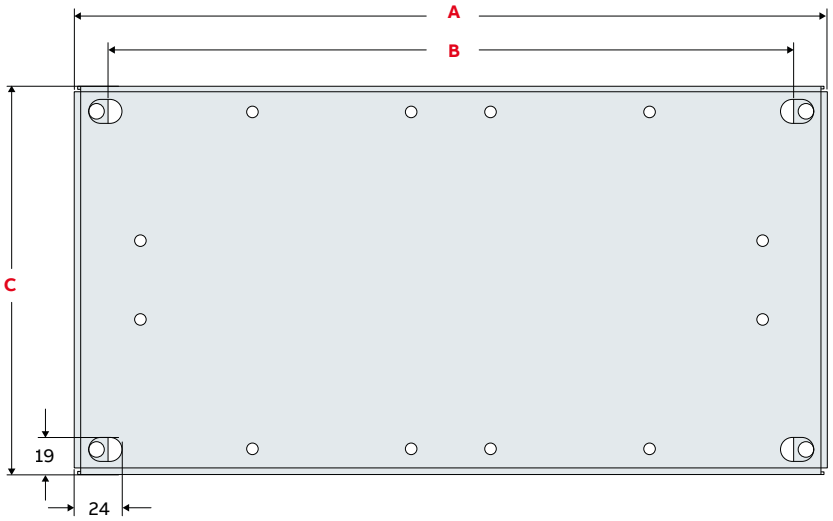
Mounting Plates

Heigh 150mm



A	B	C
363	344	146
563	544	
763	744	

Heigh ≥ 200mm



A	B	C
381	347	196
581	547	
781	747	
981	947	
381	347	246
581	547	
781	747	
981	947	
381	347	296
581	547	
781	747	
981	947	
381	347	346
581	547	
781	747	
981	947	

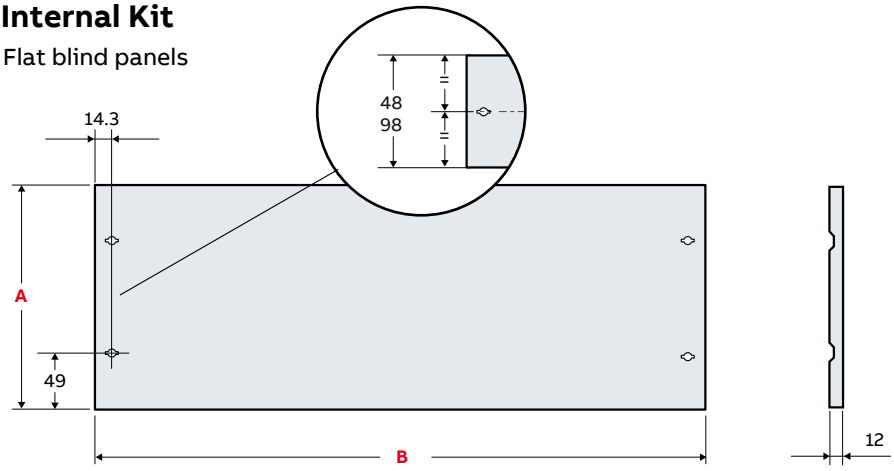
A	B	C
381	347	396
581	547	
781	747	
981	947	
381	347	446
581	547	
781	747	
981	947	
381	347	496
581	547	
781	747	
981	947	
381	347	596
581	547	
781	747	
981	947	

The measurements are given in millimeters

Overall dimensions

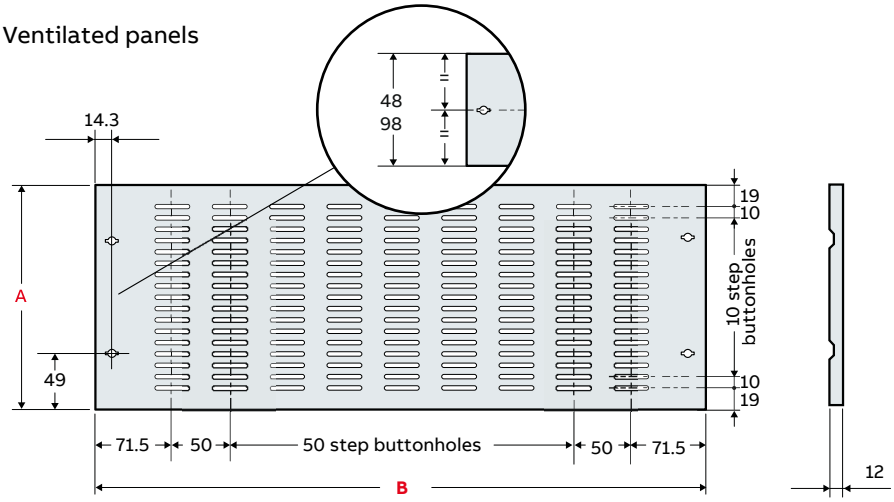
Internal Kit

Flat blind panels



A	B
48	343
98	543
148	743
198	943
248	
298	
398	
498	
598	

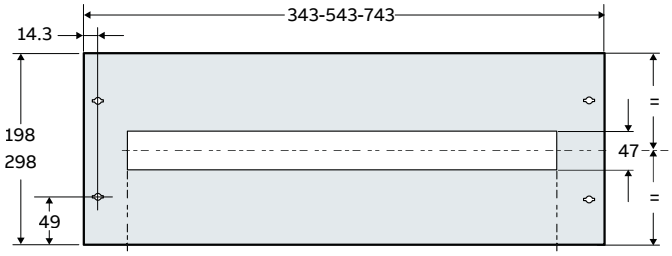
Ventilated panels



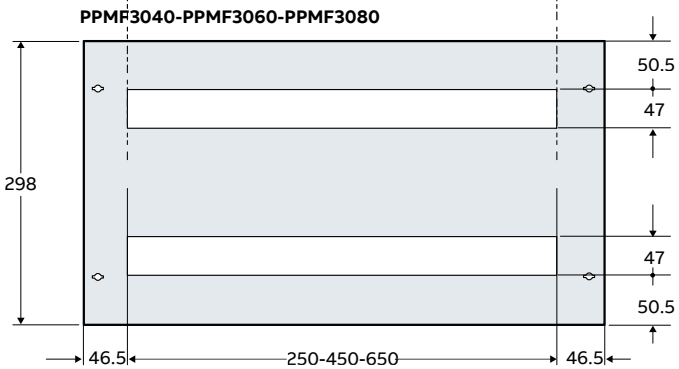
A	B
48	343
98	543
148	743
198	943
248	
298	
398	
498	
598	

Panels Modular DIN Rail

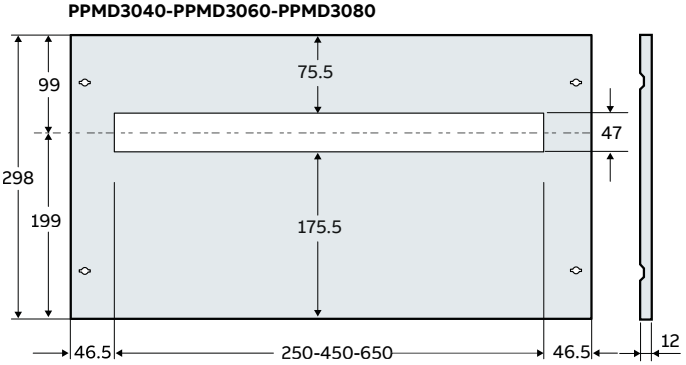
PPMF2040-PPMF2060-PPMF2080-PPMU3060-PPMU3080



PPMF3040-PPMF3060-PPMF3080



PPMD3040-PPMD3060-PPMD3080



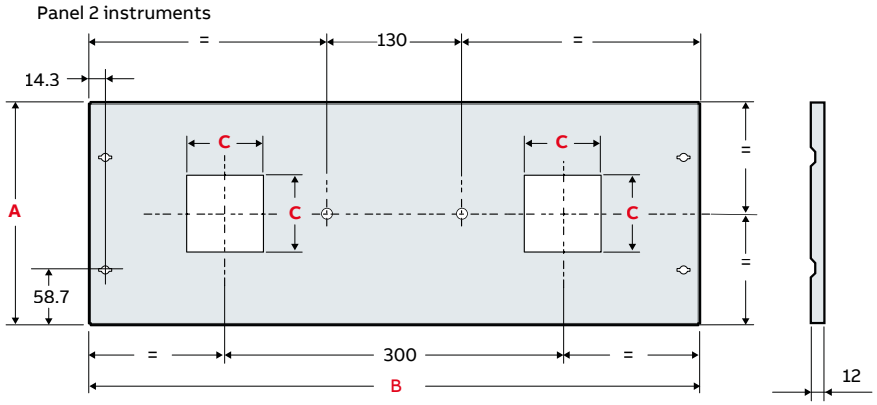
The measurements are given in millimeters

Overall dimensions

Internal kit

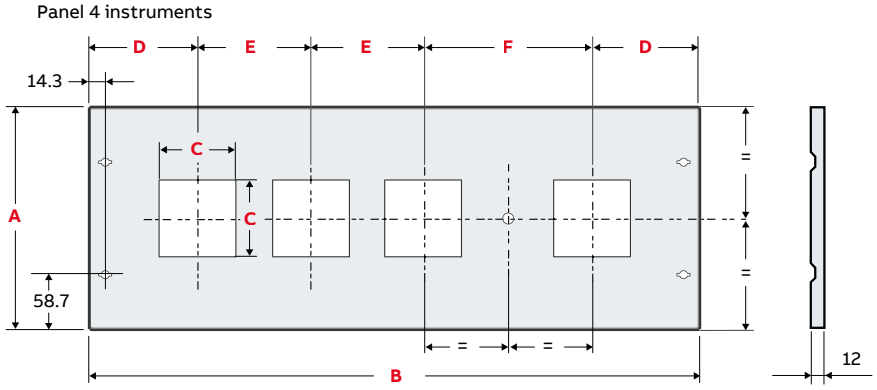
Panels for square measuring instruments

Panel 2 instruments



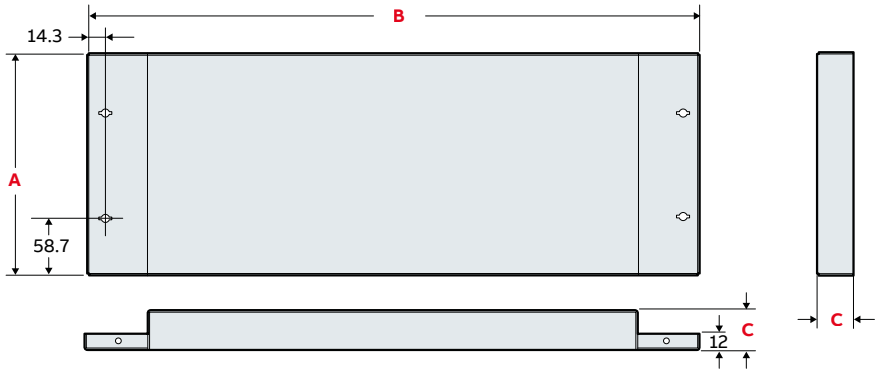
A	B	C
198	543	68
		92
198	743	68
		92

Panel 4 instruments



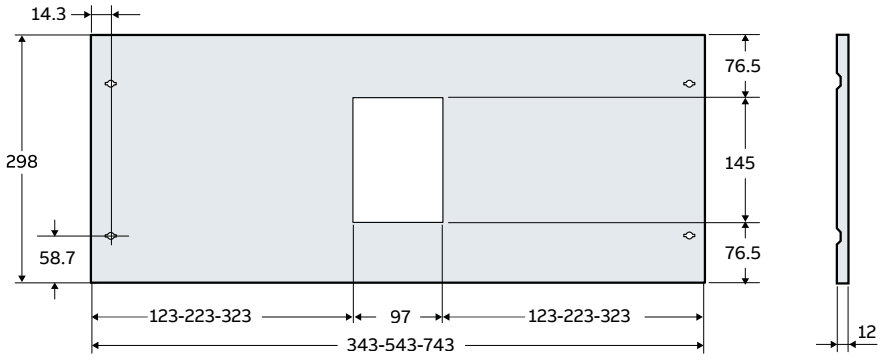
A	B	C	D	E	F
198	543	68	96.5	100	150
198	743	68	196.5	100	150
		92	121.5	150	200

Recessed blind panels



A	B	C
198	343	30
		80
398		30
598		30
198	543	30
		80
398		30
598		30
198	743	30
		80
398		30
598		30
198	943	80

Panels for ATS 022 devices mounting on DIN Rail *



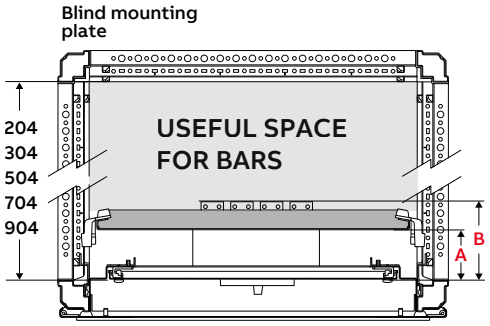
* Not available for sale

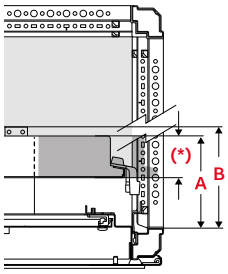
The measurements are given in millimeters

Overall dimensions

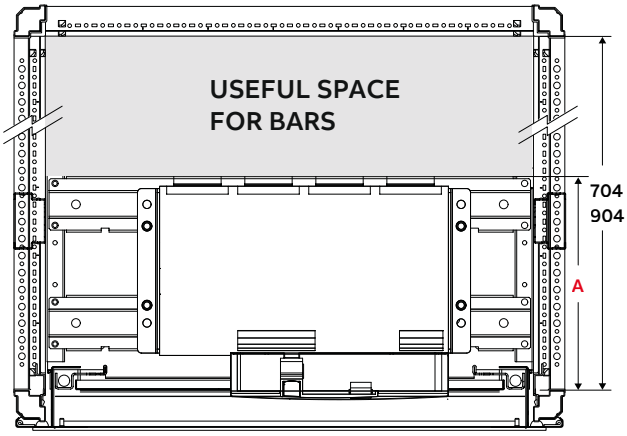
Internal kit
Useful space inside the switchgear

Tmax T - Tmax XT - Emax 2 E1.2
Power disconnector OT





Emax 2



To find the useful space available for the installation of the busbars, according to depth of the structure, subtract the depth of the breaker (**A** or **B**) depending on the version shown in the following table.

Tmax T - Tmax XT - Emax 2 E1.2

Execution	F		F - I				F - I-MO				F - MO				F - RC		F - RHD	
Terminals	Front (A)	Rear (B)	Front (A)		Rear (B)		Front (A)		Rear (B)		Front (A)		Rear (B)		Front (A)	Rear (B)	Front (A)	Rear (B)
Circuit-breakers	**Depth circuit breaker A (mm)**																	
XT1-XT3	74	179	139		179		237	*99.5	277	*99.5	172		277		74	179	108	213
XT2-XT4	86	191	151		191		237	*99.5	277	*99.5	172		277		86	191	120	225
T4	107	212	172		212		287	*99.5	327	*99.5	222	*52.5	327	*52.5	107	212	140.5	245.5
XT5/T5	107	242	172		242		287	*99.5	357	*99.5	222	*52.5	357	*52.5	107	242	140.5	275.5
XT6/T6	107	180	172		180		287	*99.5	295	*99.5	222	*52.5	295	*52.5	107	180	140.5	213.5
XT7/T7	171	230	171		230		171		230		171		230		171	230	184	243
E1.2	157	216	157		216													

Execution	P (A)	(B)	P - I (A)		(B)		P - I-MO (A)		(B)		P - MO (A)		(B)		P - RHD (A)	(B)
XT1	124	204.5	189		204.5		287	*99.5	302.5	*99.5	222	*52.5	302.5	*52.5	158	238.5
XT2	136	216.9	201	*52.5	216.9	*52.5	287	*99.5	302.9	*99.5	222	*52.5	302.9	*52.5	170	250.9
XT3	124	206.9	189		206.9		287	*99.5	304.9	*99.5	222	*52.5	304.9	*52.5	158	240.9
XT4	136	218.9	201	*52.5	218.9	*52.5	287	*99.5	304.9	*99.5	222	*52.5	304.9	*52.5	170	252.9
XT5/T5[1]	157	231.25	222	*52.5	231.25	*52.5	337	*99.5	346.25	*99.5	272*	*122.5	346.25	*122.5	190.5	264.75
XT5/T5[2]	157	231.25									272*	*122.5	346.25	*122.5	190.5	264.75

Execution	W (A)	(B)	W - I (A)		(B)		W - I-MO (A)		(B)		W - MO (A)		(B)		W - RHD (A)	(B)
XT2	170	250.9	235	*99.5	250.9	*99.5	287	*99.5	302.9		222	*52.5	302.9	*52.5	170	250.9
XT4	170	252.9	235	*99.5	252.9	*99.5	287	*99.5	304.9		222	*52.5	304.9	*52.5	170	252.9
XT5/T5[1]	190.5	264.75	255.5	*122.5	264.75	*122.5	337	*149.5	346.25	*149.5	272	*122.5	346.25	*122.5	190.5	264.75
XT5/T5[2]	190.5	264.75									272	*122.5	346.25	*122.5	190.5	264.75
XT/T6	190.5	271	255.5	*122.5	271	*122.5	337	*149.5	352.5	*149.5	272	*122.5	352.5	*122.5	190.5	271
XT7/T7	251	297	251		297		251		297		251		297		251	297
E1.2	251	300	251		300											

Emax 2
Accessorized or not accessorized, only rear terminals.

Execution	F	W
Circuit-breakers	Depth circuit breaker A (mm)	
E2.2	291	405
E4.2	291	405
E6.2	291	405

OT switch-disconnectors
only rear terminals.

Switch disconnectors	A (mm)	
OT 200/250	189	
OT 315/400	171	
OT 630/800	171	
OT 1000/1250/1600	287	*99.5

Key:

F	fixed	P - RHD	plug-in with Direct Rotary Handle
F - I	fixed interlocked	W	withdrawable
F - I-MO	fixed interlocked motor-operated	W - I	withdrawable interlocked
F - MO	fixed motor-operated	W - I-MO	withdrawable interlocked motor-operated
F - RC	fixed with residual current	W - MO	withdrawable motor-operated
F - RHD	fixed with Direct Rotary Handle	W - RC	withdrawable with residual current
F & F - I	fixed and fixed interlocked	W - RHD	withdrawable with Direct Rotary Handle
P	plug-in	W & W - I	withdrawable and withdrawable interlocked
P - I	plug-in interlocked		
P - I-MO	plug-in interlocked motor-operated		
P - MO	plug-in motor-operated		
P - RC	plug-in with residual current		

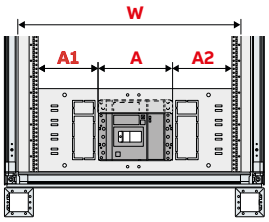
[1] Tmax T5 400A [2] Tmax T5 630A *Breakers with recessed mounting plate.

The measurements are given in millimeters

Overall dimensions

Internal kit

Available space horizontal circuit-breaker / frame



Device	Terminal	Terminal cover	Circuit-breaker footprint A (mm)	Available space Circuit-Breaker / Frame (mm) W = 400 A1=A2	W = 600 A1=A2	W = 800 A1=A2	W = 1000 A1=A2
XT5 F	R	LTC	209	28	128	228	328
XT5 F	F/EF	HTC	323	-	71	171	271
XT5 F	ES	HTC-ES	334	-	65,5	165,5	265,5
XT5 F RC	R	LTC	309	-	78	178	278
XT5 F RC	F/EF	HTC	423	-	21	121	221
XT5 F RC	ES	HTC-ES	434	-	15,5	115,5	215,5
XT5 P/W 400 A	R	LTC	209	28	128	228	328
XT5 P/W 400 A	F/EF	HTC	305	-	80	180	280
XT5 P/W 630 A	R	LTC	273	-	96	196	296
XT5 P/W 630 A	F/EF	HTC	369	-	48	148	248
XT5 P/W 400 A RC	F/EF	HTC	357	-	54	154	254
XT5 P/W 630 A RC	F/EF	HTC	389	-	38	138	238
XT5 I [1]			330	-	67,5	167,5	267,5
XT6 F	R	LTC	273	-	96	196	296
XT6 F	F/EF	HTC	384	-	40,5	140,5	240,5
XT6 W	R	LTC	295	-	85	185	285
XT6 W [2]	F/EF		385	-	40	140	240
XT6 I [1]			390	-	37,5	137,5	237,5

[1] The overall size of the interlock kit is considered.
[2] Dimensions without terminal cover.

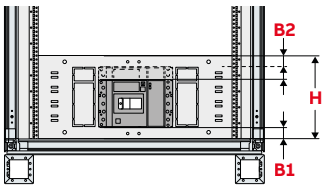
Note
The table indicates the theoretical dimensions of the devices with the different terminals, without taking into account the actual existence of the kit (regarding both the dimensions in width the terminals).
HTC = high terminal cover
LTC = low terminal cover
EF = extended front
ES = extended spread

The measurements are given in millimeters

Overall dimensions

Internal kit

Available space horizontal circuit-breaker / Edge mounting plate



Height cell H (mm)		Available space Circuit-breaker / Edge mounting plate (mm) 3 P B1	3 P B2	4 P B1	4 P B2
Tmax XT5 400 A - Front/Rear terminals					
200	F [2]	28,25	28,25	-	-
	F - RHD [2]	28,25	28,25	-	-
	F - MO [1]	26,75	26,75	-	-
	P	28,25	28,25	-	-
	P - RHD	28,25	28,25	-	-
	P - MO [1]	26,75	26,75	-	-
250	F [2]	30	76,5	30	30
	F - RC	-	-	30	30
	F - RHD [2]	30	76,5	30	30
	F - MO [1]	28,5	75	28,5	28,5
	P	30	76,5	30	30
	P - RHD	30	76,5	30	30
	P - MO [1]	28,5	75	28,5	28,5
300	W	42,5	75,3	-	-
	W - RHD	42,5	75,3	-	-
	W - MO [1]	41	73,8	-	-
350	W	67,5	114	67,5	53,8
	W - RHD	67,5	114	67,5	53,8
	W - MO [1]	66	112,5	66	52,3
600 *	F - I	48	48	48	48
	F - I-MO [1]	46,5	46,5	46,5	46,5
	P - I (1)	46,5	46,5	46,5	46,5
	P - I-MO [1]	46,5	46,5	46,5	46,5
	W - I [1]	46,5	46,5	46,5	46,5
	W - I-MO [1]	46,5	46,5	46,5	46,5
Tmax XT5 630 A - Front/Rear terminals					
200	F [2]	28,25	28,25	-	-
	F - RHD [2]	28,25	28,25	-	-
	F - MO [1]	26,75	26,75	-	-
250	F [2]	30	76,5	30	30
	F - RC	-	-	30	30
	F - RHD [2]	30	76,5	30	30
	F - MO [1]	28,5	75	28,5	28,5
	P	30	76,5	30	30
	P - MO [1]	28,5	76,5	28,5	28,5
600 *	F - I	48	48	48	48
	F - I-MO [1]	46,5	46,5	46,5	46,5
	P - I [1]	46,5	46,5	46,5	46,5
	P - I-MO [1]	46,5	46,5	46,5	46,5
Tmax XT6 - Front/Rear terminals					
300	F	43	43	-	-
	F - RHD	43	43	-	-
	F - MO [1]	41,5	41,5	-	-
350	F	33	103	33	33
	F - RHD	33	103	33	33
	F - MO [1]	31,5	101,5	31,5	31,5
	W [2]	41	41	-	-
	W - RHD [2]	41	41	-	-
	W - MO (1)[2]	39,5	39,5	-	-
500	W [2]	81	151	81	81
	W - RHD [2]	81	151	81	81
	W - MO (1)[2]	79,5	149,5	79,5	79,5
700 *	F - I	11,5	11,5	11,5	11,5
	F - I-MO (1)	10	10	10	10
	W - I (1)[2]	10	10	10	10
	W - I-MO (1)[2]	10	10	10	10

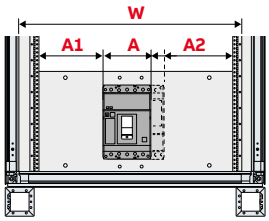
*The overall size of the interlock kit is considered.
[1] Kit with recessed mounting plate.
[2] Not compatible with high terminal covers. Front only in form 1.

The measurements are given in millimeters

Overall dimensions

Internal kit

Available space vertical circuit-breaker / frame



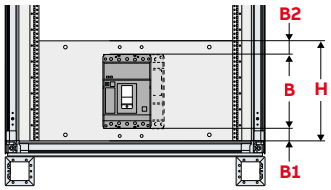
Device	Terminal	N° Poles	Circuit-breaker footprint A (mm)	Available space Circuit-Breaker / Frame (mm) W = 400 A1	W = 400 A2	W = 600 A1	W = 600 A2	W = 800 A1	W = 800 A2	W = 1000 A1	W = 1000 A2
XT5 F/P	R/F/EF	3	139,5	86	39,5	186	139,5	286	239,5	386	339,5
XT5 F/P	R/F/EF	4	186	39,5	39,5	139,5	139,5	239,5	239,5	339,5	339,5
XT5 F *	ES	3	139,5	86	39,5	186	139,5	286	239,5	386	339,5
XT5 F *	ES	4	186	39,5	39,5	139,5	139,5	239,5	239,5	339,5	339,5
XT5 W	R/F/EF	3	178,2	73,5	27	173,5	127	273,5	227	373,5	327
XT5 W	R/F/EF	4	224,7	13,3	27	113,3	127	213,3	227	313,3	327
2 XT5 F	R	3	139,5	-	-	86	39,5	136	89,5	-	-
2 XT5 F	R	4	186	-	-	39,5	39,5	89,5	89,5	-	-
3 XT5 F	R/F/EF	3	139,5	-	-	-	-	86	39,5	-	-
3 XT5 F	R/F/EF	4	186	-	-	-	-	39,5	39,5	-	-
2 XT5 W	R/F/EF	3	178,2	-	-	-	-	86	39,5	-	-
2 XT5 W	R/F/EF	4	224,7	-	-	-	-	25,8	39,5	-	-
3 XT5 W	R/F/EF	3	178,2	-	-	-	-	-	-	86	39,5
3 XT5 W	R/F/EF	4	224,7	-	-	-	-	-	-	25,8	39,5
3 XT5 W MO	R	3	178,2	-	-	-	-	-	-	73,5	27
3 XT5 W MO	R	4	224,7	-	-	-	-	-	-	13,3	27
4 XT5 W	R/F/EF	3	178,2	-	-	-	-	-	-	35,8	3
XT6 F	R/F/EF	3	210	27,5	27,5	162,5	92,5	262,5	192,5	362,5	292,5
XT6 F	R/F/EF	4	280	-	-	92,5	92,5	192,5	192,5	292,5	292,5
XT6 W	R/F/EF	3	264	-	-	162	92	262	192	362	292
XT6 W	R/F/EF	4	334	-	-	39	92	139	192	239	292
2 XT6 W	R	3	264	-	-	-	-	-	-	162	92
2 XT6 W	R	4	334	-	-	-	-	-	-	39	92

*Minimum footprint, the size of the terminal covers are not considered.

Note

The table indicates the theoretical dimensions of the devices with the different terminals, without taking into account the actual existence of the kit (regarding both the dimensions in width the terminals).

Available space vertical circuit-breaker / Edge mounting plate



Device	Terminal	Terminal Cover	Circuit-breaker footprint B (mm)	Available space Circuit-Breaker / Edge mounting plate (mm) Blind mounting plate plate H = 350 B1 = B2	H =400 B1 = B2	H =450 B1 = B2	Recessed mounting plate H =350 B1 = B2	H =400 B1 = B2	H =450 B1 = B2
XT5 F	R	LTC	209	68,5	93,5	118,5	67	92	117
XT5 F	F/EF	HTC	323	11,5	36,5	61,5	10	35	60
XT5 F	ES	HTC-ES	334	6	31	56	4,5	29,5	54,5
XT5 F RC	R	LTC	309	18,5	43,5	68,5	17	42	67
XT5 F RC	F/EF	HTC	423	-	-	11,5	-	-	10
XT5 F RC	ES	HTC-ES	434	-	-	6	-	-	4,5
XT5 P/W 400 A	R	LTC	209	68,5	93,5	118,5	67	92	117
XT5 P/W 400 A	F/EF	HTC	305	20,5	45,5	70,5	19	44	69
XT5 P/W 630 A	R	LTC	273	36,5	61,5	86,5	35	60	85
XT5 P/W 630 A	F/EF	HTC	369	-	13,5	38,5	-	12	37
XT5 P/W 400 A RC	F/EF	HTC	357	-	19,5	44,5	-	18	43
XT5 P/W 630 A RC	F/EF	HTC	389	-	3,5	28,5	-	2	27
XT5 I			330	8	33	58	6,5	31,5	56,5
XT6 F	R	LTC	273	36,5	61,5	86,5	35	60	85
XT6 F	F/EF	HTC	384	-	6	31	-	4,5	29,5
XT6 W	R	LTC	295	25,5	50,5	75,5	24	49	74
XT6 W *	F/EF	HTC	385	-	5,5	30,5	-	4	29

* Dimension without terminal cover.

Note

The table indicates the theoretical dimensions of the devices with the different terminals, without taking into account the actual existence of the kit (regarding both the dimensions in width the terminals).

HTC = high terminal cover

LTC = low terminal cover

EF = extended front

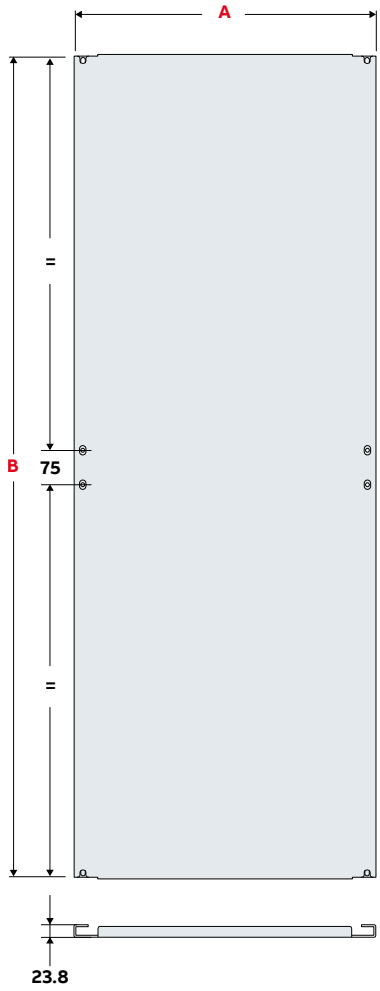
ES = extended spread

The measurements are given in millimeters

Overall dimensions

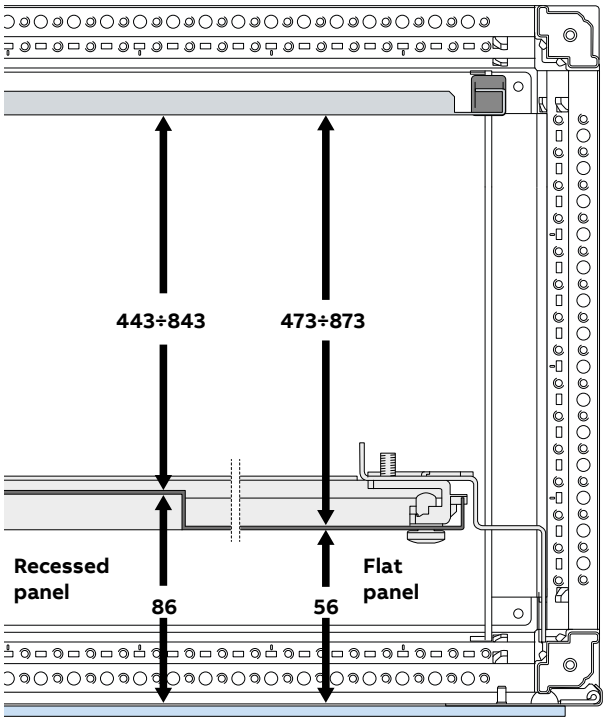
Internal kit

Blind mounting plates total height

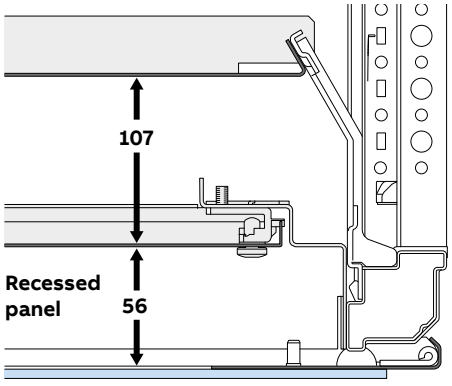


A	B
394	1598
594	
794	
394	1798
594	
794	
394	1998
594	
794	

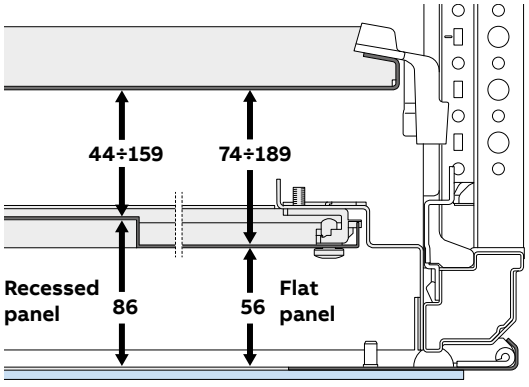
Maximum retreat



Blind mountin plate H=150mm



Blind mountin plate H≥200mm



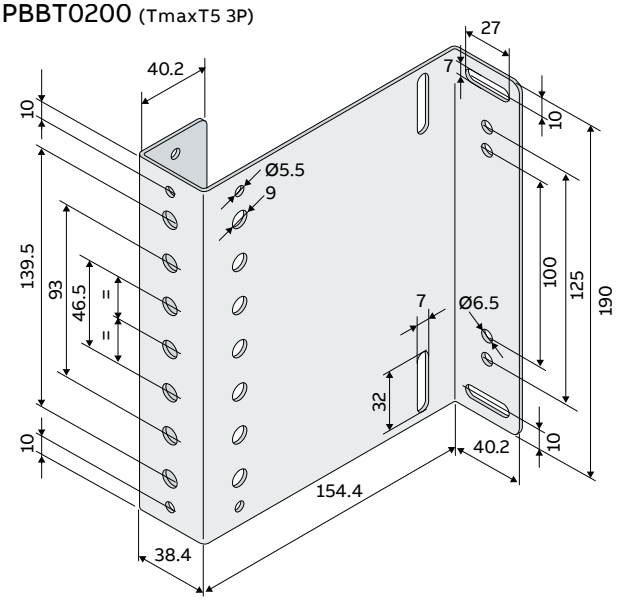
The measurements are given in millimeters

Overall dimensions

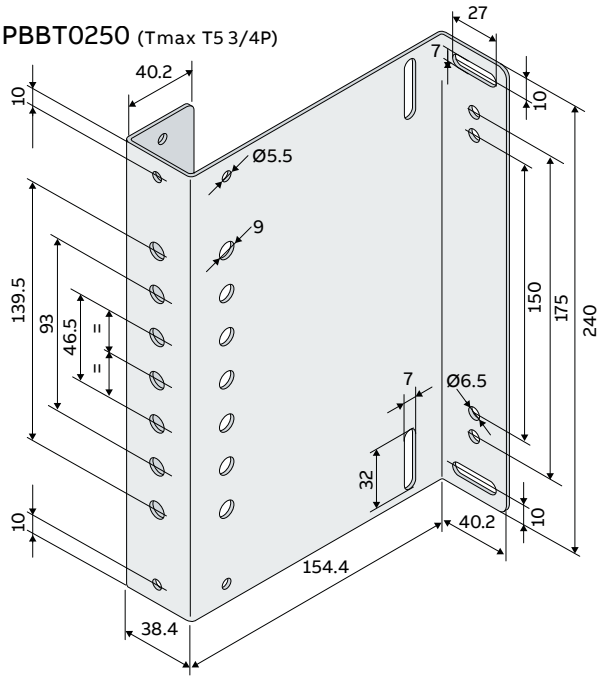
Internal kit

Brackets for fastening busbar or flexibar connections for horizontal moulded-case circuit-breakers

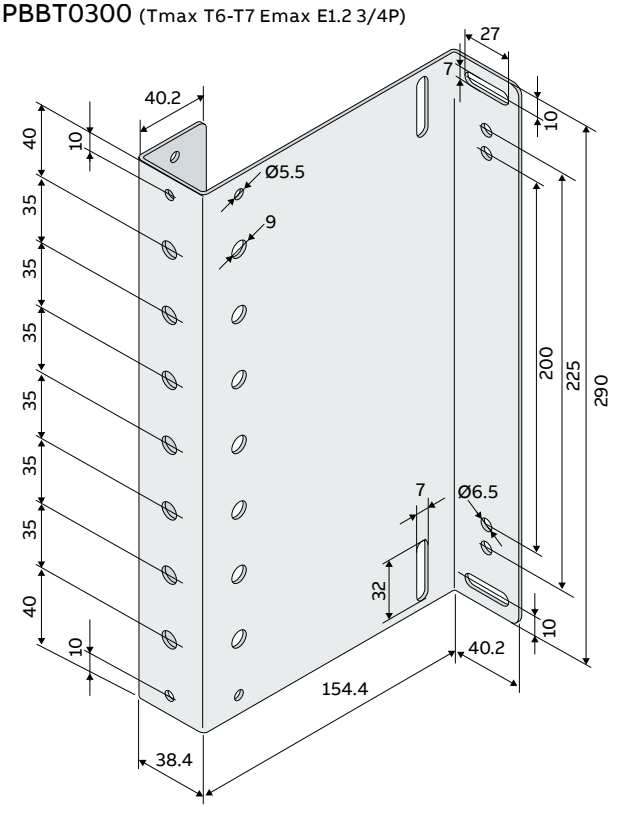
PBBT0200 (TmaxT5 3P)



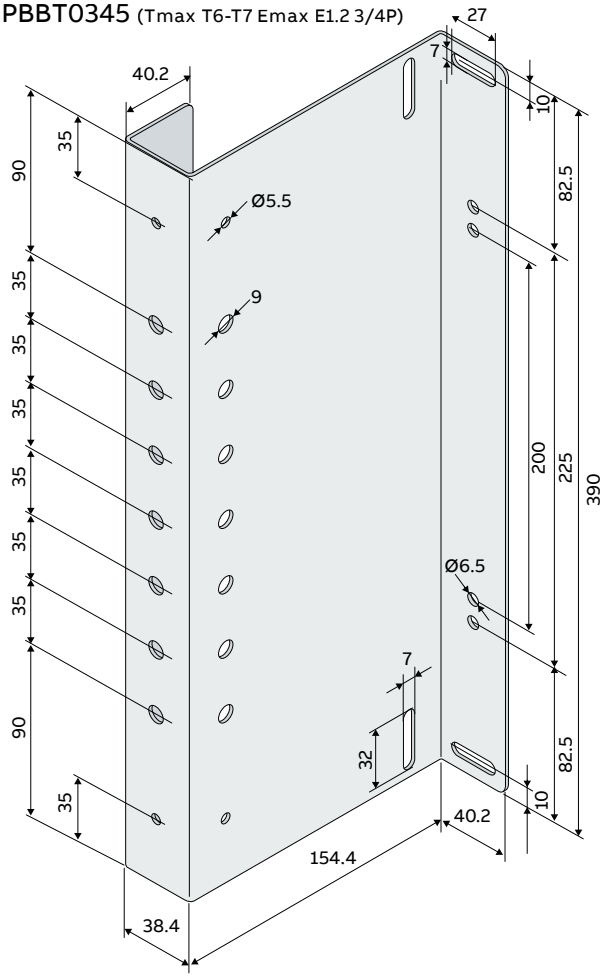
PBBT0250 (Tmax T5 3/4P)



PBBT0300 (Tmax T6-T7 Emax E1.2 3/4P)



PBBT0345 (Tmax T6-T7 Emax E1.2 3/4P)



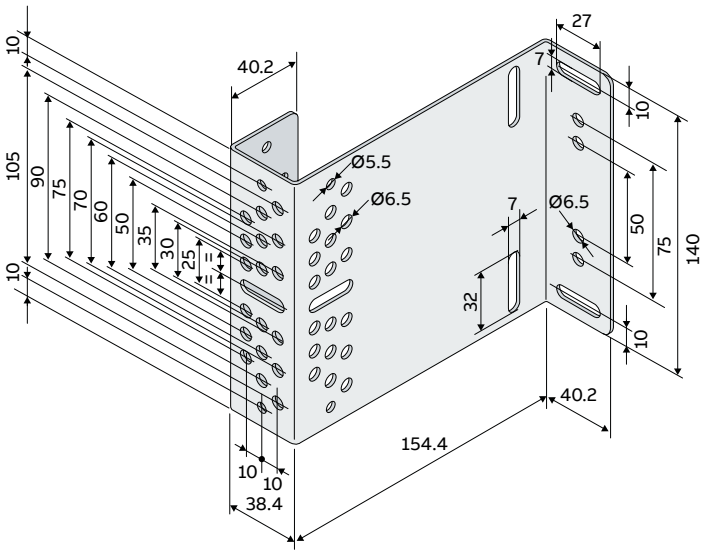
The measurements are given in millimeters

Overall dimensions

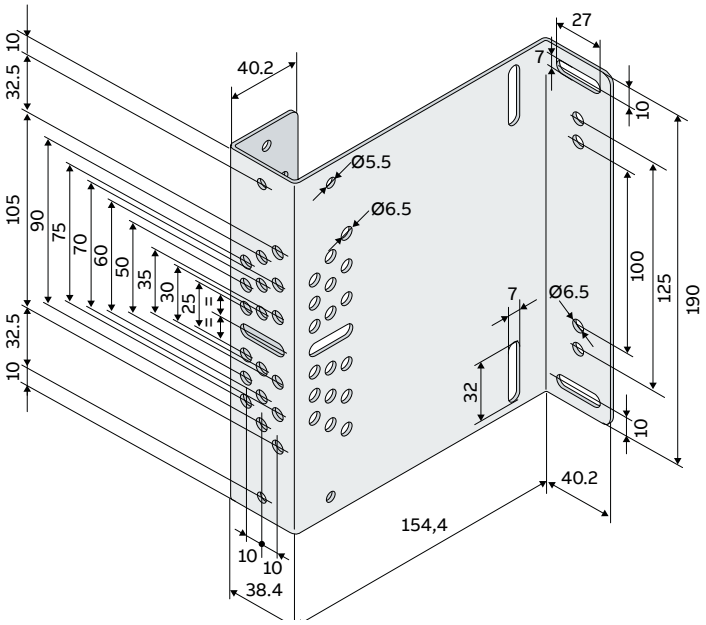
Internal kit

Brackets for fastening busbar or flexibar connections for horizontal moulded-case circuit-breakers

PBBX0150 (Tmax XT1-XT2-XT3-XT4-T4 3/4P)



PBBX2250 (Tmax XT1-XT2-XT3-XT4-T4 3/4P)



The measurements are given in millimeters

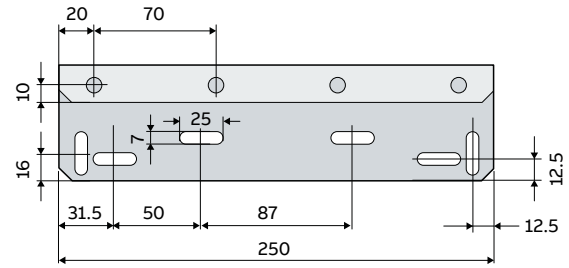
Overall dimensions

Internal kit

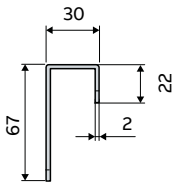
Bracket for anchoring vertical Emax and Tmax T7 circuit breaker

PBBE0712 (Tmax T6-T7 Emax E1.2 3/4P)

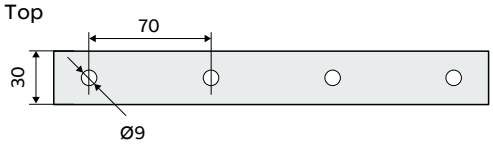
Front



Fianco

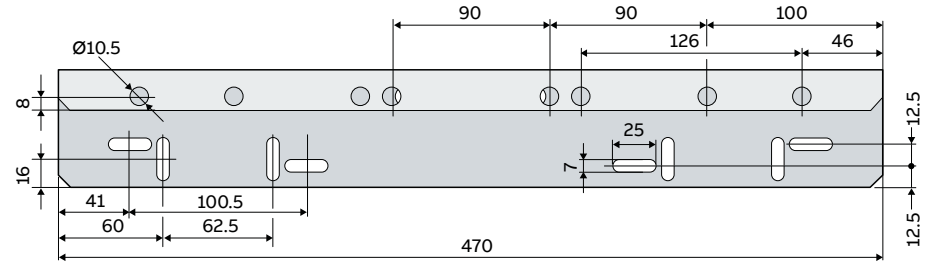


Top

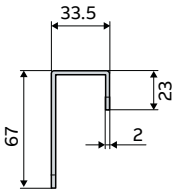


PBBE2242 (Emax E2.2 - E4.2 3/4P)

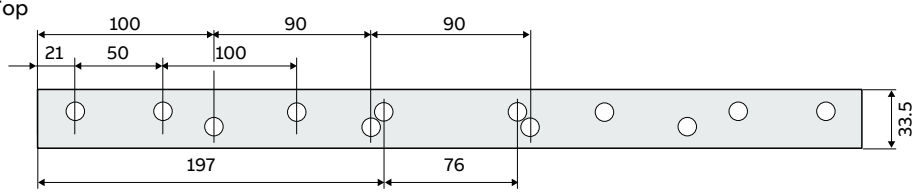
Front



Side

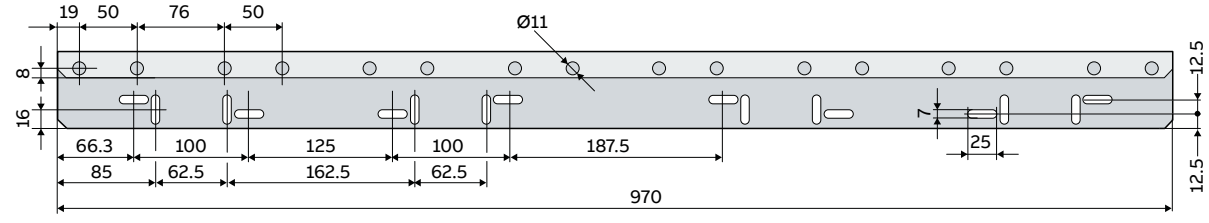


Top

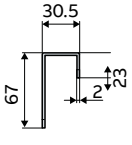


PBBE0062 (Emax 6.2 3/4P)

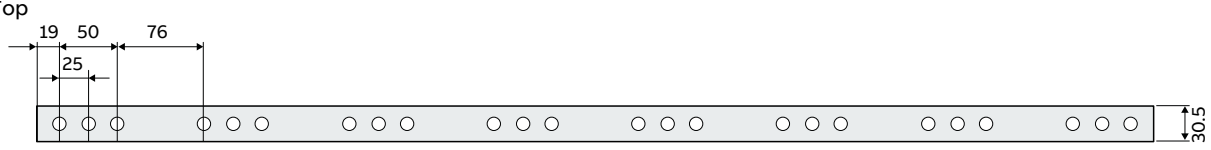
Front



Side



Top



The measurements are given in millimeters

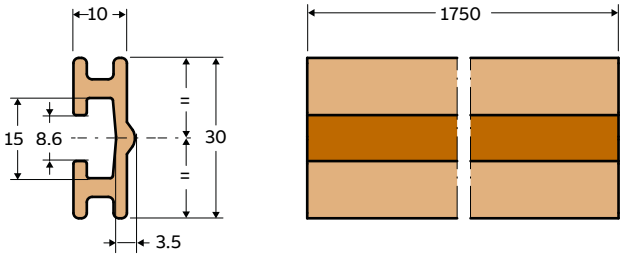
Overall dimensions

Main distribution systems

Shaped profile busbars

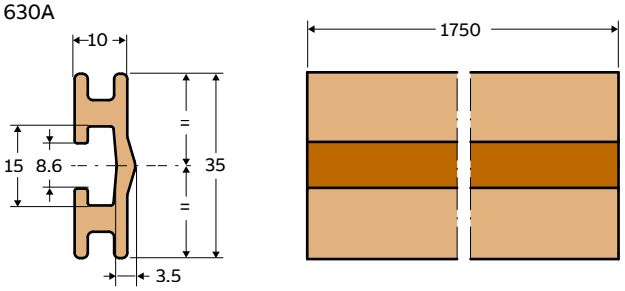
PBSC0400

In 400A



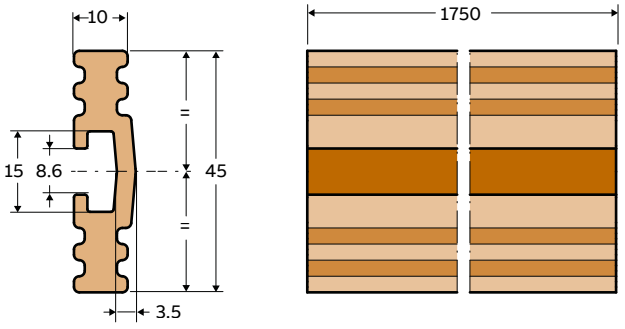
PBSC0630

In 630A



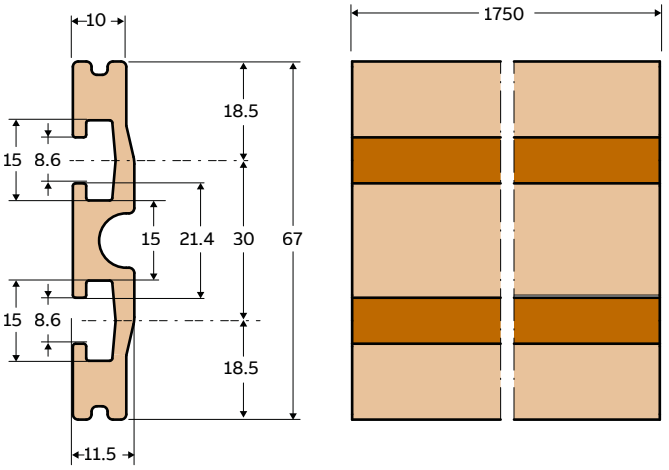
PBSC0800

In 800A



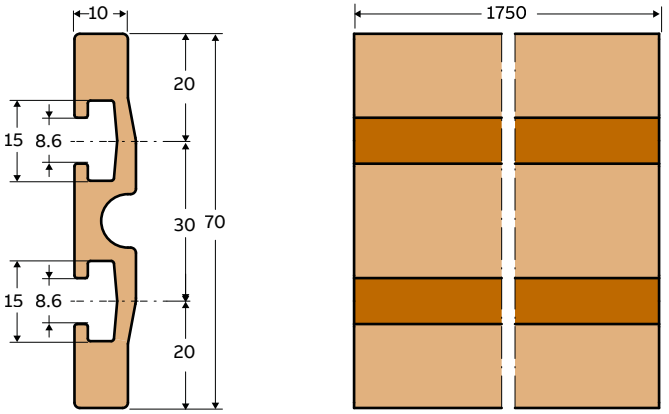
PBSC1000

In 1000A



PBSC1250

In 1250A



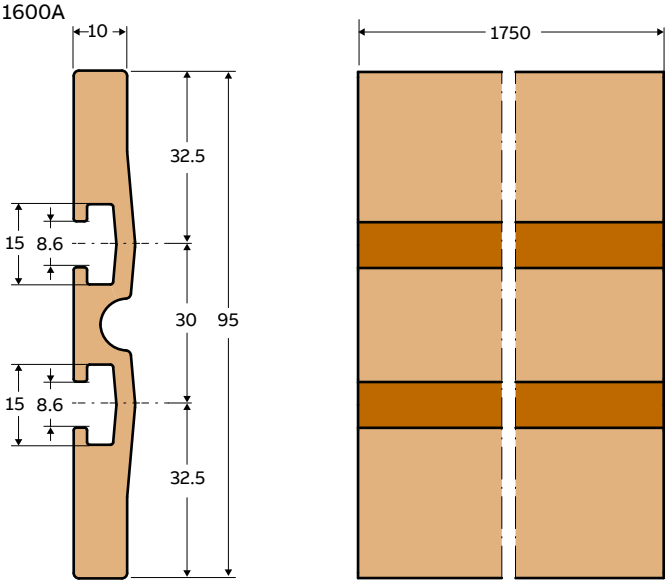
The measurements are given in millimeters

Overall dimensions

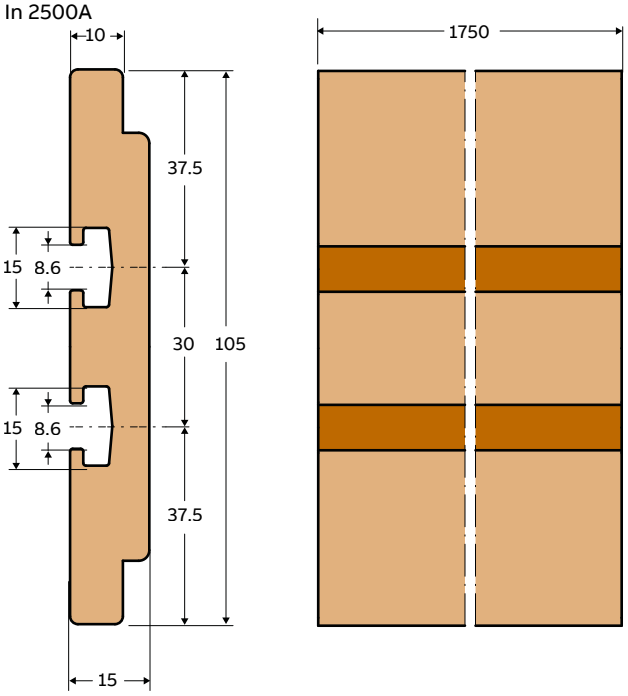
Main distribution systems

Shaped profile busbars

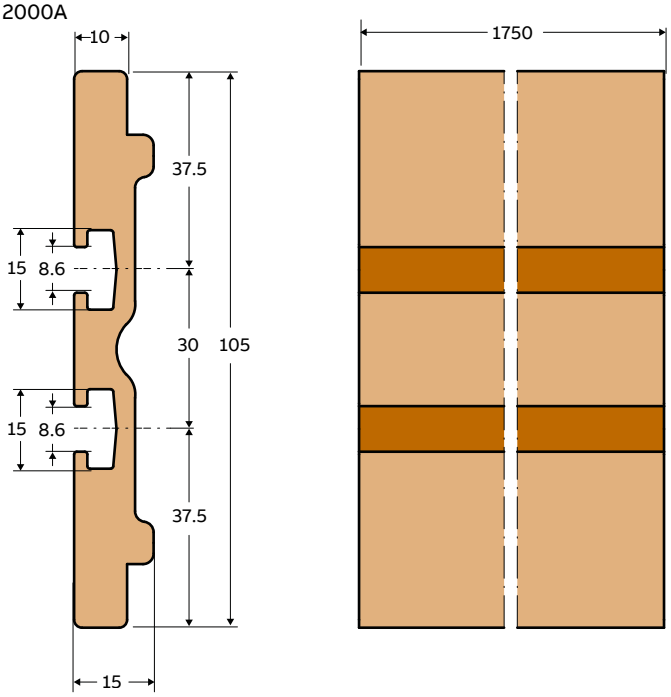
PBSC1600
In 1600A



PBSC2500
In 2500A



PBSC2000
In 2000A

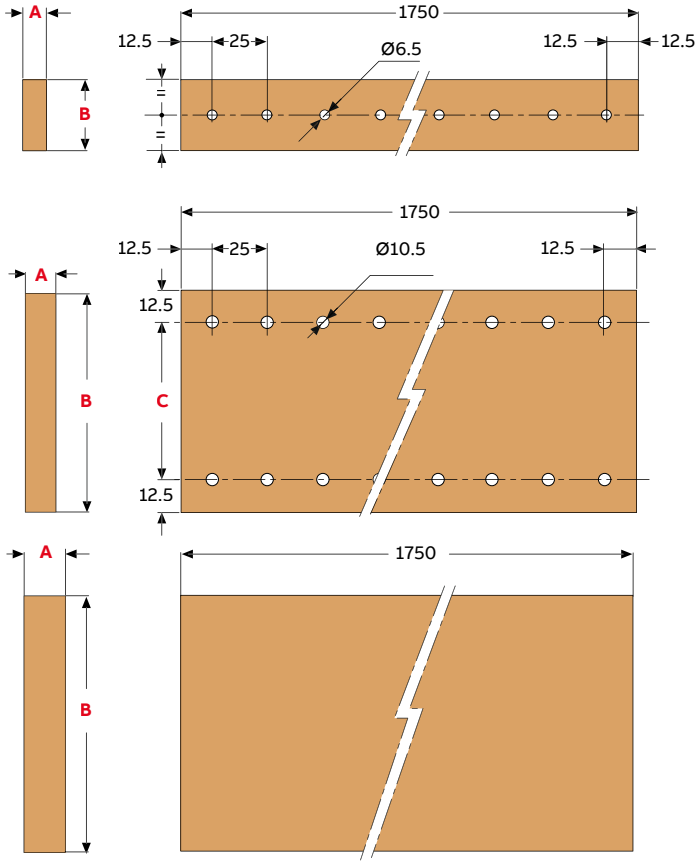


The measurements are given in millimeters

Overall dimensions

Main distribution systems

Flat busbar

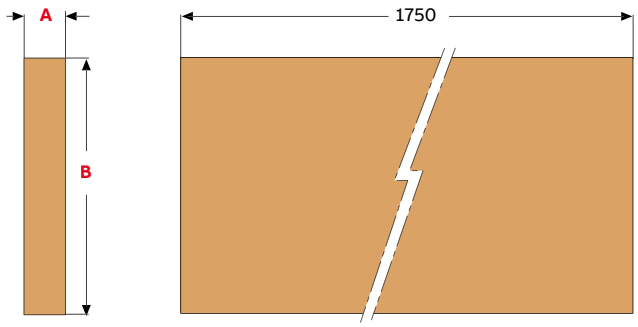


Copper busbars

Code	A	B
PBFC2005	5	20
PBFC2505	5	25
PBFC3010	10	30
PBFC4005	5	40
PBFC3205	5	32

Code	A	B	C
PBFC1005	5	100	75
PBFC8005	5	80	55
PBFC5005	5	50	25
PBFC6305	5	63	38

Code	A	B
PBFC1001	10	100
PBFC1201	10	120
PBFC1601	10	160
PBFC2001	10	200
PBFC4010	10	40
PBFC5010	10	50
PBFC6010	10	60
PBFC8010	10	80



Cuponal busbars

Code	A	B
PBFA2005	5	20
PBFA2505	5	25
PBFA3005	5	30
PBFA4005	5	40
PBFA5005	5	50
PBFA6005	5	60
PBFA8005	5	80
PBFA4010	10	40
PBFA5010	10	50
PBFA7510	10	75
PBFA8010	10	80
PBFA1001	10	100
PBFA1201	10	120

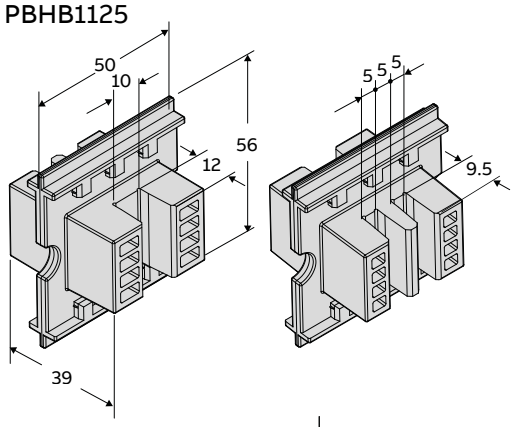
The measurements are given in millimeters

Overall dimensions

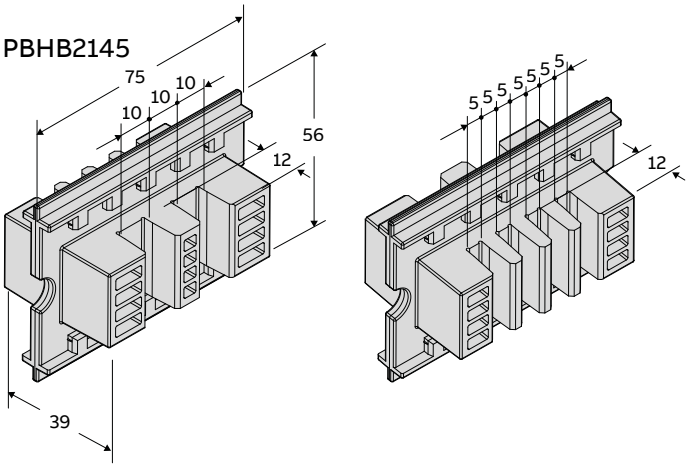
Main distribution system

Linear busbar rails

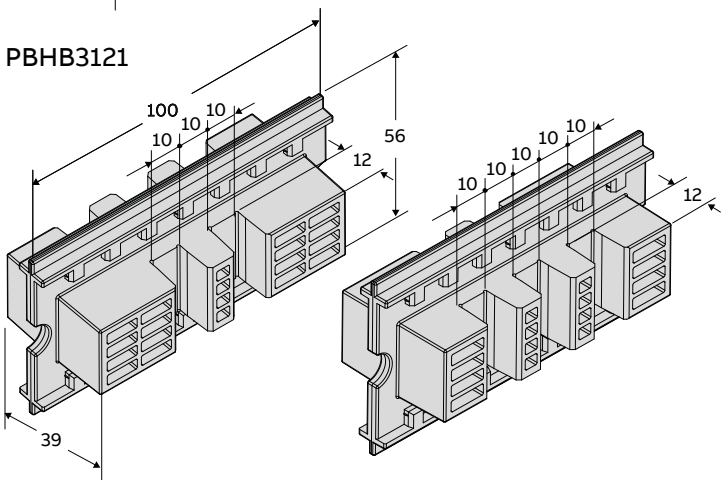
PBHB1125

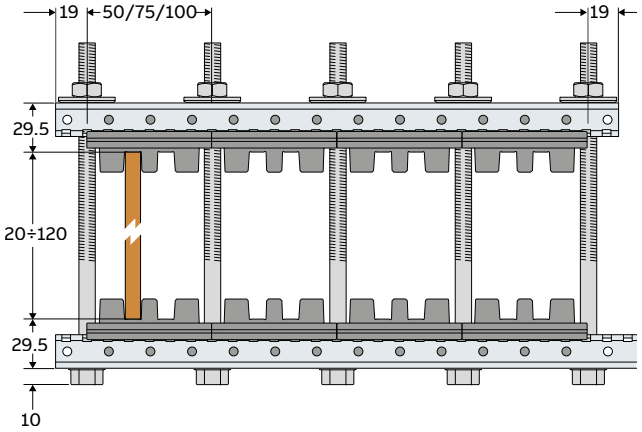


PBHB2145

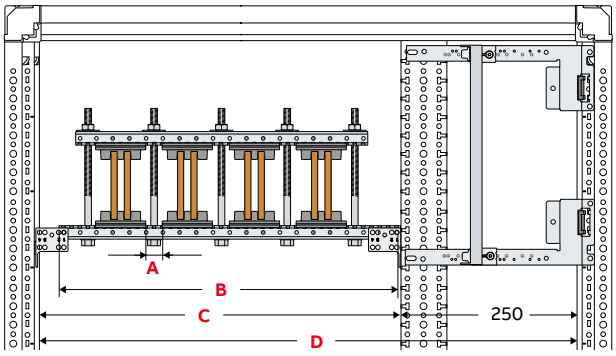


PBHB3121





Distance between insulating supports



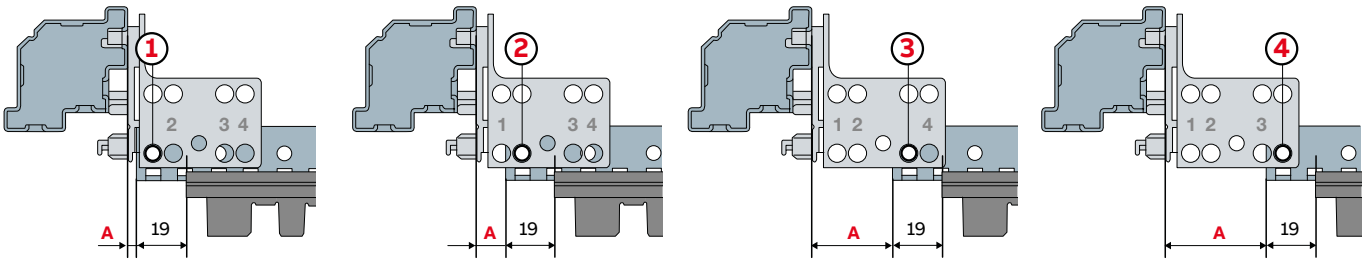
Code	W (mm)	No. poles	A	B	C	D
P BHB1125	50	3	0	188	254	504
		4		238	254	504
PBHB2145	75	3		438	454	704
		4		438	454	704
PBHB3121	100	3		438	454	704
		4		438	454	704
PBHB1125	50	3	12.5	238	254	504
		4		438	454	704
PBHB2145	75	3		438	454	704
		4		438	454	704
PBHB3121	100	3		438	454	704
		4		638	654	904
PBHB1125	50	3	25	238	254	504
		4		438	454	704
PBHB2145	75	3		438	454	704
		4		438	454	704
PBHB3121	100	3		438	454	704
		4		638	654	904

Code	W (mm)	No. poles	A	B	C	D
PBHB1125	50	3	37.5	438	454	704
		4		438	454	704
PBHB2145	75	3		438	454	704
		4		638	654	904
PBHB3121	100	3		438	454	704
		4		838	654	904
PBHB1125	50	3	50	438	454	704
		4		438	454	704
PBHB2145	75	3		438	454	704
		4		638	654	904
PBHB3121	100	3		438	454	704
		4		638	654	904

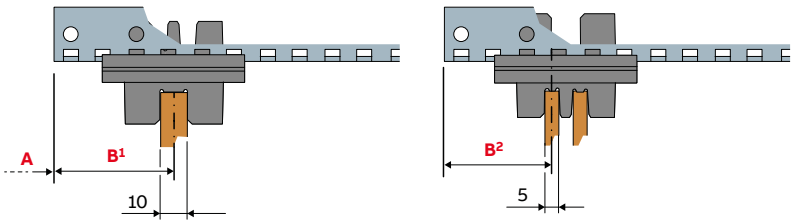
The measurements are given in millimeters

Overall dimensions

Main distribution systems
Linear busbar rails

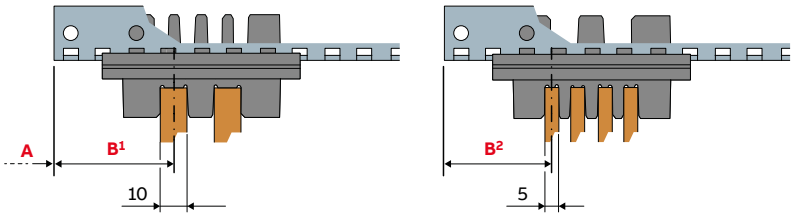


PBHB1125



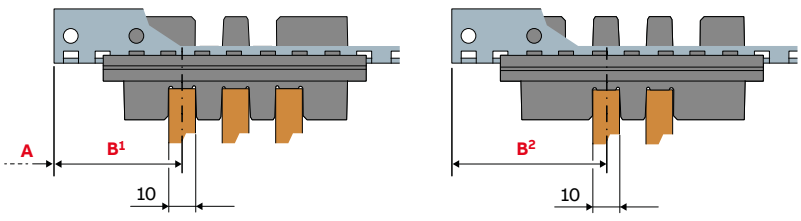
Position	A [mm]	B¹ [mm]	B² [mm]
1	3	44	39
2	10.5	44	39
3	30.5	44	39
4	38	44	39

PBHB2145



Position	A [mm]	B¹ [mm]	B² [mm]
1	3	46.5	41.5
2	10.5	46.5	41.5
3	30.5	46.5	41.5
4	38	46.5	41.5

PBHB3121



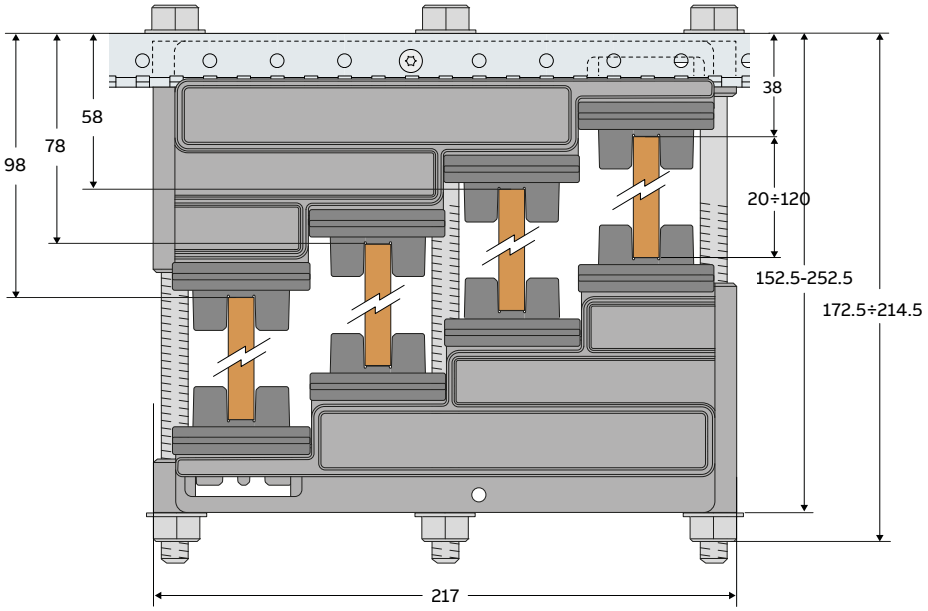
Position	A [mm]	B¹ [mm]	B² [mm]
1	3	49	59
2	10.5	49	59
3	30.5	49	59
4	38	49	59

The measurements are given in millimeters

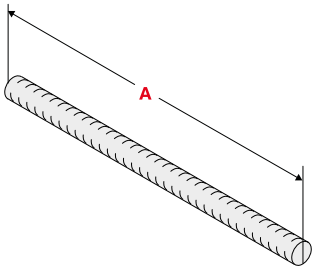
Overall dimensions

Main distribution systems

Scaled busbar rails



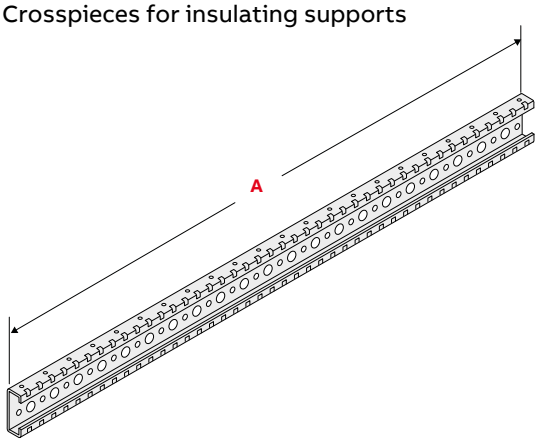
Tie rods



Steel tie rods	A
PTRA0045	120
PTRA0075	150
PTRA0100	180
PTRA0120	200

Stainless steel tie rods	A
PTRS1201	210
PTRS1601	250
PTRS2001	290

Crosspieces for insulating supports



Galvanzied sheet metal	Stainless steel	A
PCRM0188		88
PCRM0238		238
PCRM0288		288
PCRM0338	PCRS0338	338
PCRM0388	PCRS0388	388
PCRM0438	PCRS0438	438
PCRM0488		488
PCRM0538		538
PCRM0588	PCRS0338	588

Galvanzied sheet metal	Stainless steel	A
PCRM0638	PCRS0388	638
PCRM0688	PCRS0438	688
PCRM0738		738
PCRM0788		788
PCRM0888	PCRS0588	888
PCRM0988	PCRS0638	988
PCRM1238		1238
PCRM2013		2013

The measurements are given in millimeters

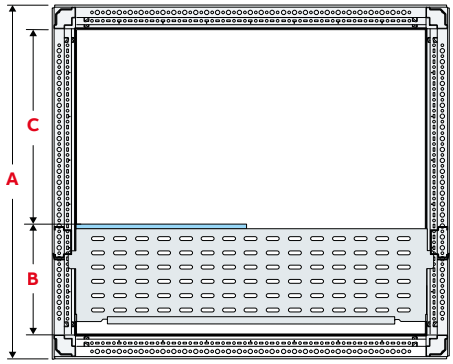
Overall dimensions

Segregations

Segregations

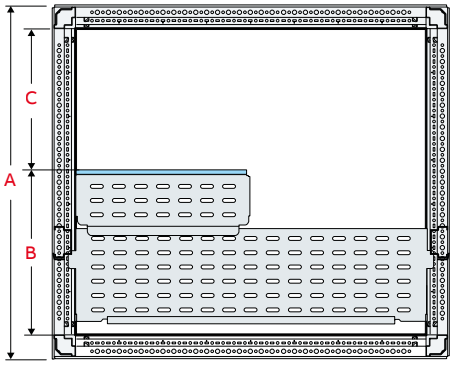
Segregations rear mounting positions

Assembly position P0 **PCVS0....**



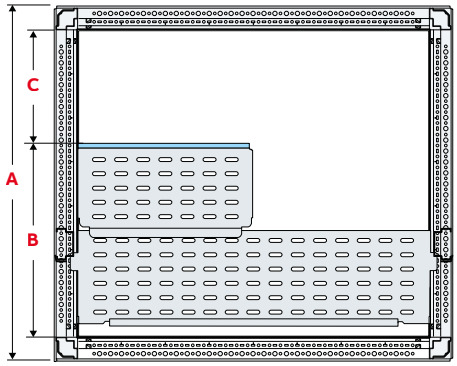
A	B	C
599	242.5	261.5
799	242.5	461.5
999	242.5	661.5

Assembly position P1 **PCVS1....**



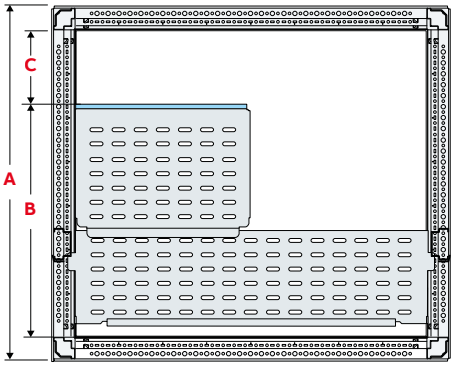
A	B	C
599	362.5	141.5
799	362.5	341.5
999	362.5	541.5

Assembly position P2 **PCVS2....**



A	B	C
599	432.5	71.5
799	432.5	271.5
999	432.5	471.5

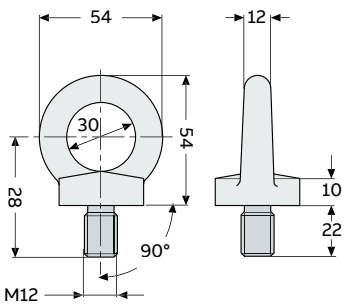
Assembly position P3 **PCVS3....**



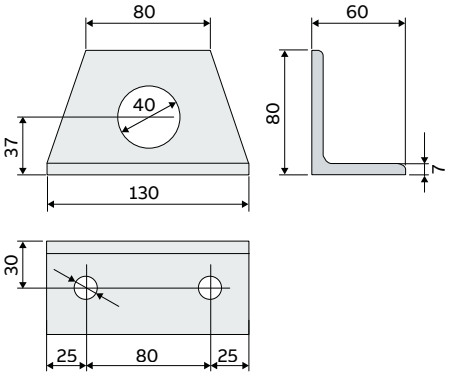
A	B	C
799	598.5	105.5
999	598.5	305.5

Lifting and fixing

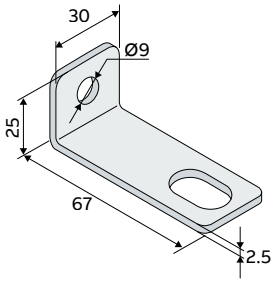
Eyebolts for lifting



Lifting reinforcements



Wall-mounting brackets

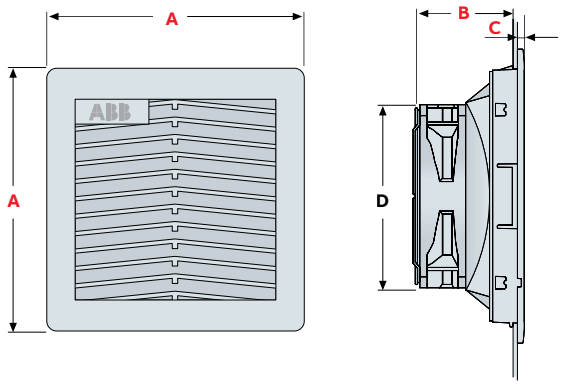


The measurements are given in millimeters

Overall dimensions

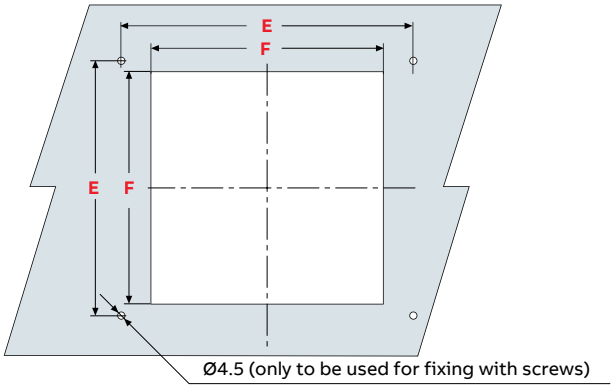
Aeration/ventilation

Gratings



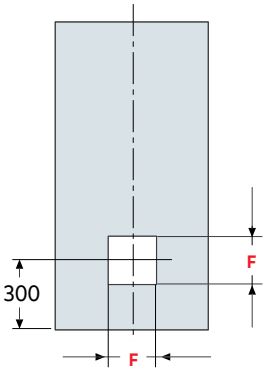
Code	A	B	C	D	E	F
EN0105K EN1105K EN2105K	105	60	7	80	95	92
EN0150K EN1150K EN2150K	150	64	7	124	131	125
EN0204K EN1204K EN2204K	204	90	8	127	185	177
EN0250K EN1250K EN2250K	250	113	8	172	230	223
EN0325K	325	24	9	255	302	291
EN2325K EN3325K	325	152	9	218	302	291

Drilling template



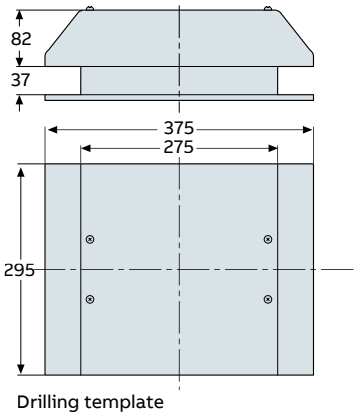
Standard position of drillings

Side panel/Door



Hood

EN0480K-EN0481K-EN0482K



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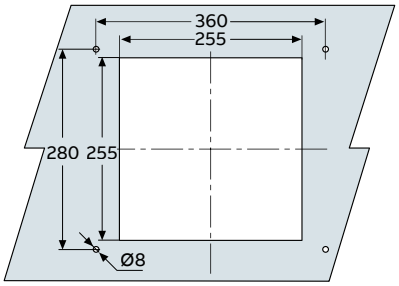
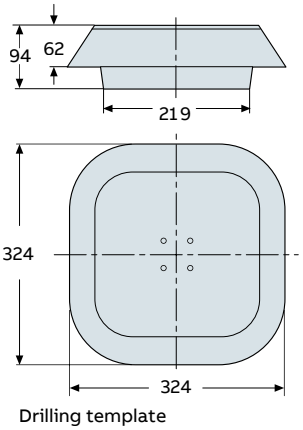
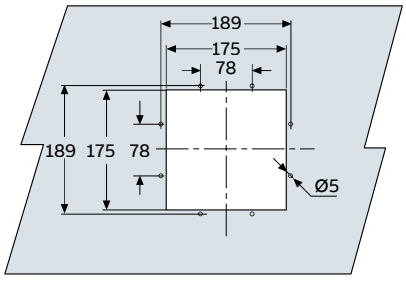


EN0483K-EN0484K-EN0485K



Drilling template

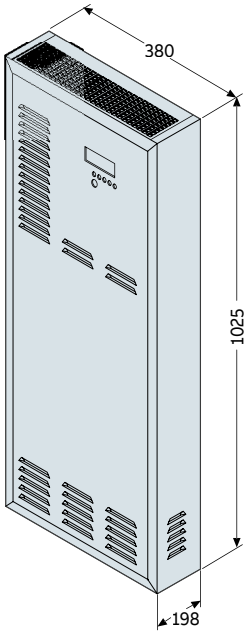


The measurements are given in millimeters

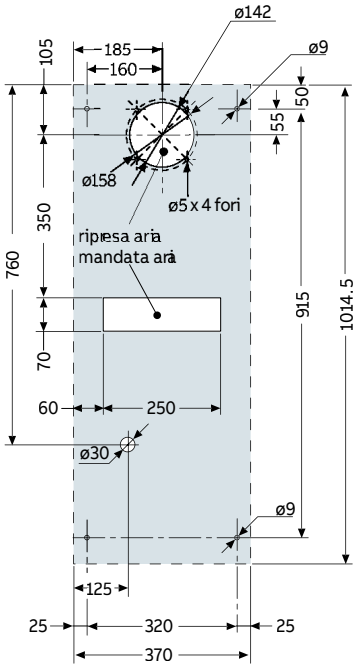
Overall dimensions

Aeration/ventilation

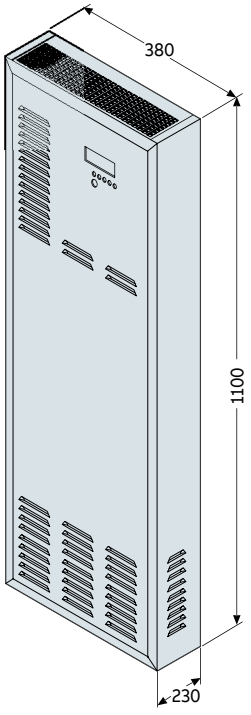
Air conditioners for wall or door mounting VZ1550K - VZ1850K - VZ1400K



Drilling template



Air conditioners for wall or door mounting VZ2000K



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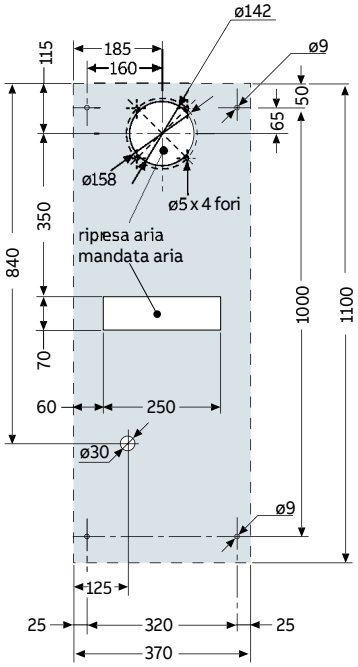
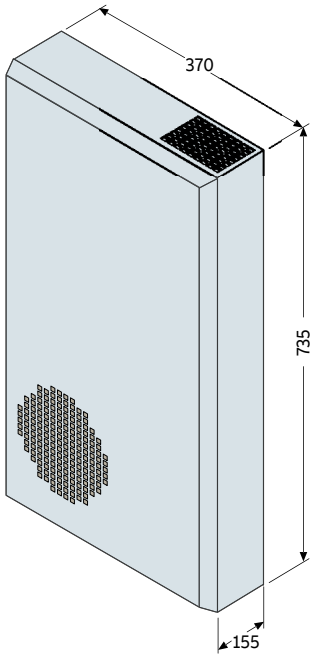


The measurements are given in millimeters

Overall dimensions

Air conditioner

Heat exchangers for wall or door mounting VS4235K



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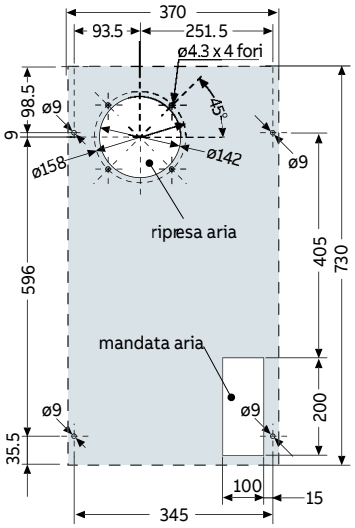
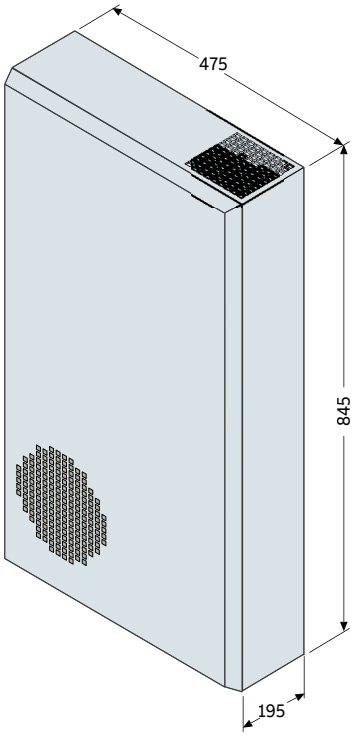


Heat exchangers for wall or door mounting VS6285K



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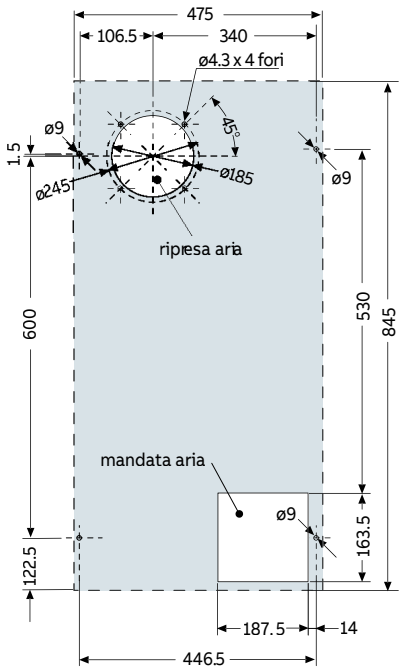
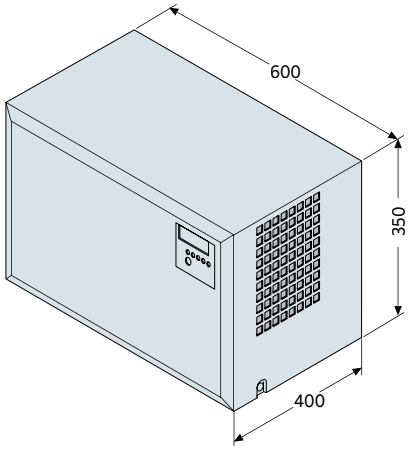


The measurements are given in millimeters

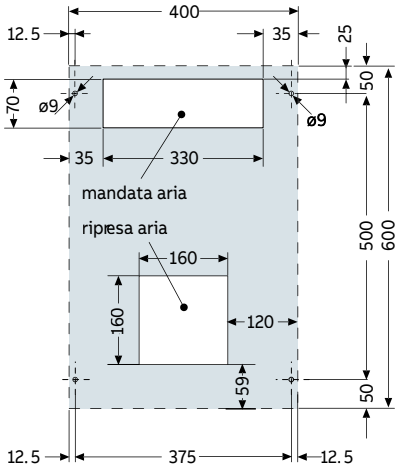
Overall dimensions

Air conditioner

Air conditioners for mounting on roof VZ8501K-VZ1401K

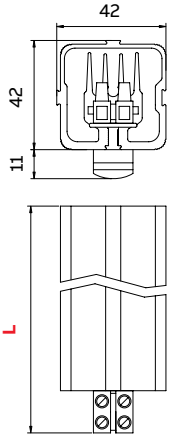


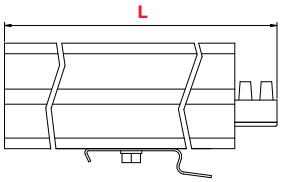
Drilling template



IP20 heaters

VA7930/VA7950/VA7975





	L (mm)
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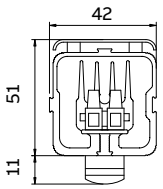
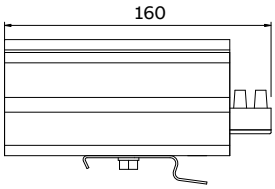
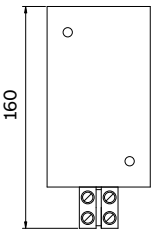
VA7950	165
VA7975	210

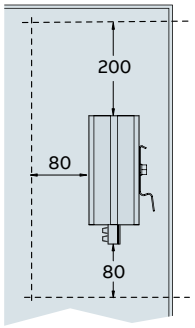
VA7910





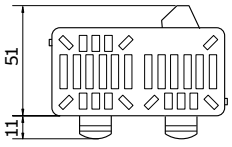


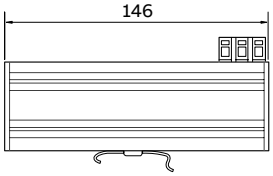
Minimum mounting distances

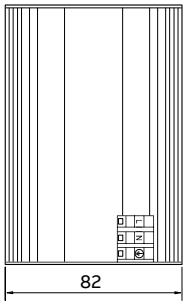


VA7930
VA7950
VA7975

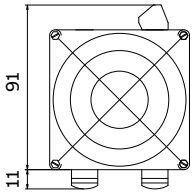
VA7915

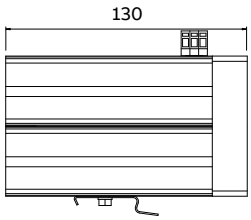


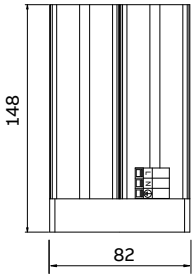




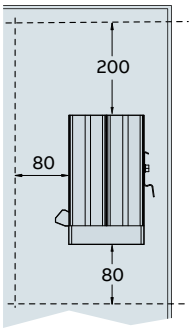
VA8300







Minimum mounting distances



The measurements are given in millimeters

Chapter 9
List of codes

List of codes

Code	Page	Weight KG
06652	4–52	
07241	4–53	
07242	4–53	
07243	4–53	
07244	4–53	
07245	4–53	
07246	4–53	
07247	4–53	
07855	4–52	
1SL9037A00	4–52	
1SL9816A00	4–52	
1SL9817A00	4–52	
1SL9818A00	4–52	
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1SL9839A00	4–52	
1SL9840A00	4–52	
1SL9841A00	4–52	
1SL9842A00	4–52	
1SL9860A00	4–52	
1SL9861A00	4–52	
1SL9862A00	4–52	
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1SL9864A00	4–52	
1SL9865A00	4–52	
1SL9866A00	4–52	
1SL9904A00	4–52	
1STQ005223B0000	4–64	
AA1560	2–38	
AA1570	2–38	
AA6200	2–38	
AA6840	4–48	
AA6850	4–48	
AA6880	4–48	
AA6890	4–48	
AA8004	2–38	
AD1004	4–54	
AD1005	4–50	
AD1027	4–54	
AD1028	4–54	
AD1029	4–54	
AD1034	4–54	
AD1041	4–50	
AD1053	4–54	
AD1055	4–50	
AD1058	2–38	
AD1099	4–50	
ED0003	4–56	
ED0004	4–56	
ED0025	4–57	
ED0026	4–57	
ED2183	4–55	
ED2191	4–55	
ED2209	4–55	
ED2217	4–56	
ED2225	4–56	
ED2233	4–56	
ED2241	4–56	
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ED2308	4–56	
ED2316	4–56	
ED2324	4–56	
ED2373	4–56	
ED2373	4–56	
ED2381	4–56	
ED2407	4–56	
ED2531	4–55	
ED2549	4–55	
ED2550	4–55	
ED2551	4–55	
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ED2553	4–55	
ED2554	4–55	
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ED2558	4–55	
ED2559	4–55	
ED2560	4–55	
ED2564	4–55	
ED2654	4–55	
ED2662	4–55	
ED2670	4–55	
ED2720	4–55	
ED2738	4–55	
ED2746	4–55	
ED2753	4–55	
ED2845	4–56	
ED2852	4–56	
ED2894	4–55	
ED2902	4–55	
ED2936	4–56	
ED2944	4–57	
ED2951	4–57	
ED2961	4–57	
ED2962	4–57	
ED2969	4–57	
ED2977	4–57	
ED3033	4–57	
ED3041	4–57	
ED3058	4–57	
ED3066	4–57	
ED3090	4–57	
ED3101	4–57	
ED3102	4–57	
ED3103	4–57	
ED3104	4–57	
ED3132	4–57	
ED3272	4–57	
ED3280	4–57	
ED3298	4–57	
ED3355	4–57	
ED3363	4–57	
ED3371	4–57	
ED3413	4–57	
ED3439	4–57	
EN0101K	4–59	
EN0101K	6–41	
EN0102K	4–59	
EN0105K	4–60	
EN0150K	4–60	
EN0204K	4–60	
EN0250K	4–60	
EN0325K	6–41	
EN0325K	4–60	
EN0480K	4–62	
EN0480K	6–41	
EN0481K	4–60	
EN0482K	4–62	
EN0482K	6–41	
EN0483K	4–60	
EN0484K	4–62	
EN0484K	6–41	
EN0485K	4–62	
EN0485K	6–41	
EN1105K	4–61	
EN1150K	4–61	
EN1204K	4–61	
EN1250K	4–61	
EN2105K	4–61	
EN2150K	4–61	
EN2204K	4–61	
EN2250K	4–61	
EN2325K	4–61	
EN3325K	4–61	
EV0103	2–41	
EV0104	2–41	
EV0114	2–36	
EV0116	2–36	
EV0117	2–36	
EV0119	2–36	
EV0121	2–36	
EV0123	2–36	
EV0124	2–36	
EV0125	2–36	
EV0126	2–36	
EV0127	2–36	
EV1001	4–64	
EV1002	4–64	
EV1004	2–19	
EV1008	2–38	
EV1036	2–38	
EV1037	2–38	
EV1039	2–38	
EV1040	4–64	
EV1041	4–64	
EV1042	4–64	
EV1043	4–64	
EV1045	4–64	
EV1047	4–64	

List of codes

Code	Page	Weight KG
EV1048	4–64	
EV1075K	2–38	
EV1100	2–41	
EV1101	2–41	
EV1110	4–50	
EV1111	4–50	
EV1112	4–50	
EV1113	4–50	
EV1115	4–48	
EV1116	4–48	
EV1117	4–48	
EV1118	4–48	
EV2110	4–50	
EV2112	4–50	
FF-XLP00-3P1	3–122	
FF-XLP00-3P2	3–122	
FF-XLP00-3P3	3–122	
FF-XLP1-3P1	3–122	
FF-XLP1-3P2	3–122	
FF-XLP2-3P1	3–122	
FF-XLP2-3P2	3–122	
FF-XLP3-3P1	3–122	
PBBE0062	3–121	
PBBE0712	3–121	
PBBE2242	3–121	
PBBS0001	4–50	
PBBS0020	4–50	
PBBT0200N	3–120	
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PBBT0345N	3–120	
PBBX0151N	3–120	
PBBX2250N	3–120	
PBCM0004	6–8	
PBGT4738	4–46	
PBGT5738	4–46	
PBGX1738	4–46	
PBGX2738	4–46	
PBGX3738	4–46	
PBGX4738	4–46	
PBKT0002	2–39	
PBMC0001	6–8	
PBMC0002	4–42	
PBMC0002	5–53	
PBMC0003	4–44	
PBPT4631	4–45	
PBPT4738	4–46	
PBPT5631	4–45	
PBPT5738	4–46	
PBPT6738	4–46	
PBPX1631	4–45	
PBPX1738	4–46	
PBPX2631	4–45	
PBPX2738	4–46	
PBPX3631	4–45	
PBPX3738	4–46	
PBPX4631	4–45	
PBPX4738	4–46	
PBRB0004	2–18	
PBRF3453	4–54	
PBRL0002	2–40	
PBTT4631	4–45	
PBTT5631	4–45	
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PBTT7631	4–45	
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PBTX4631	4–45	
PBUF0002	4–55	
PBWF0002	2–40	
PBWP1012	2–27	
PBWP1030	2–27	
PBWP1030	6–14	
PBWP1050	2–27	
PBWP1050	6–14	
PBWP1050	6–31	
PBWP1070	2–27	
PBWP1070	6–14	
PBWP1070	6–31	
PBWP1090	2–27	
PBWP1090	6–14	
PBWP1090	6–31	
PBWP1230	6–14	
PBWP1250	6–14	
PBWP1270	6–14	
PBWP1290	2–27	
PBWP1290	6–14	
PBWP2520	6–14	
PBWP2530	6–14	
PBWP2550	6–14	
PBWP2570	6–14	
PBWP2590	6–14	
PBWP3012	2–27	
PBWP3020	2–27	
PBWP3030	2–27	
PBWP3050	2–27	
PBWP3050	6–14	
PBWP3070	2–27	
PBWP3090	2–27	
PBWP4012	2–27	
PBWP4020	2–27	
PBWP4030	2–27	
PBWP4050	2–27	
PBWP4070	2–27	
PBWP4090	2–27	
PBWP5020	6–14	
PBWP5050	6–14	
PBWP5070	6–14	
PBWP5090	6–14	
PBWP6012	2–27	
PBWP6020	2–27	
PBWP6030	2–27	
PBWP6050	2–27	
PBWP6050	6–31	
PBWP6070	2–27	
PBWP6070	6–31	
PBWP6090	2–27	
PBWP6090	6–31	
PBWP7520	6–14	
PBWP7530	6–14	
PBWP7550	6–14	
PBWP7570	6–14	
PBWP7590	6–14	
PBWP8012	2–27	
PBWP8020	2–27	
PBWP8030	2–27	
PBWP8050	2–27	
PBWP8050	6–31	
PBWP8070	2–27	
PBWP8070	6–31	
PBWP8090	2–27	
PBWP8090	6–31	
PCBS1010	5–26	
PCBS1012	5–26	
PCBS1040	5–26	
PCBS1060	5–26	
PCBS1080	5–26	
PCBS1510	5–26	
PCBS1540	5–26	
PCBS1560	5–26	
PCBS1580	5–26	
PCBS2010	5–26	
PCBS2040	5–26	
PCBS2060	5–26	
PCBS2080	5–26	
PCBS2510	5–26	
PCBS2540	5–26	
PCBS2560	5–26	
PCBS2580	5–26	
PCBS3010	5–26	
PCBS3040	5–26	
PCBS3060	5–26	
PCBS3080	5–26	
PCBS5010	5–26	
PCBS5040	5–26	
PCBS5060	5–26	
PCBS5080	5–26	
PCCM0200	2–16	
PCCM0300	2–16	
PCCM0300	2–16	
PCCM0400	2–16	
PCCM0500	2–16	
PCCM0600	2–16	
PCCM0700	2–16	
PCCM0800	2–16	
PCCM0900	2–16	
PCCM1000	2–16	
PCCM1250	2–16	
PCCM2010	6–8	

List of codes

Code	Page	Weight KG
PCCM2012	6–8	
PCCM2025	6–8	
PCCM2050	6–8	
PCCM2075	6–8	
PCCS0700	2–16	
PCCS0900	2–16	
PCFM0200	2–14	
PCFM0200	6–9	
PCFM0250	6–9	
PCFM0300	2–14	
PCFM0300	2–14	
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PCFM0400	2–14	
PCFM0500	2–14	
PCFM0500	6–9	
PCFM0500	6–9	
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PCFM0600	2–14	
PCFM0600	6–27	
PCFM0700	2–14	
PCFM0700	6–9	
PCFM0700	6–27	
PCFM0750	6–9	
PCFM0800	2–14	
PCFM0800	6–27	
PCFM0900	2–14	
PCFM0900	6–9	
PCFM0900	6–27	
PCFM1000	2–14	
PCFM1000	6–9	
PCFM1000	6–27	
PCFM1250	2–14	
PCFM1250	2–14	
PCFM1250	6–9	
PCFS0200	2–14	
PCFS0300	2–14	
PCFS0400	2–14	
PCFS0600	2–14	
PCFS0700	2–14	
PCFS0800	2–14	
PCFS0900	2–14	
PCFS1000	2–14	
PCFS1250	2–14	
PCFS1250	2–14	
PCIS0500	5–34	
PCIS0500	6–20	
PCIS0700	5–34	
PCIS0900	5–34	
PCKI0250	6–20	
PCKI0750	6–20	
PCKI1000	6–20	
PCKI1250	6–20	
PCNL0050	6–26	
PCNL0100	6–26	
PCPA0004	2–17	
PCPT6738	4–46	
PCRM0188	4–39	
PCRM0238	4–39	
PCRM0288	4–39	
PCRM0288	4–39	
PCRM0338	4–39	
PCRM0388	4–39	
PCRM0438	4–39	
PCRM0488	4–39	
PCRM0538	4–39	
PCRM0588	4–39	
PCRM0638	4–39	
PCRM0688	4–39	
PCRM0738	4–39	
PCRM0788	4–39	
PCRM0888	4–39	
PCRM0988	4–39	
PCRM1238	4–39	
PCRM1788	4–39	
PCRM1988	4–39	
PCRM2013	4–39	
PCSS0024	2–41	
PCTG1810	6–8	
PCTG1812	6–8	
PCTG1825	6–8	
PCTG1850	6–8	
PCTG1875	6–8	
PCTG2010	6–8	
PCTG2012	6–8	
PCTG2025	6–8	
PCTG2050	6–8	
PCTG2075	6–8	
PCTT6631	4–45	
PCTT7631	4–45	
PCTT7631	4–45	
PCVS0204	5–50	
PCVS0206	5–50	
PCVS0208	5–50	
PCVS0254	5–50	
PCVS0256	5–50	
PCVS0258	5–50	
PCVS0304	5–50	
PCVS0306	5–50	
PCVS0308	5–50	
PCVS0354	5–50	
PCVS0356	5–50	
PCVS0358	5–50	
PCVS0404	5–50	
PCVS0406	5–50	
PCVS0408	5–50	
PCVS0504	5–50	
PCVS0506	5–50	
PCVS0508	5–50	
PCVS0604	5–50	
PCVS0606	5–50	
PCVS0608	5–50	
PCVS1204	5–50	
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PCVS1208	5–50	
PCVS1254	5–50	
PCVS1256	5–50	
PCVS1258	5–50	
PCVS1304	5–50	
PCVS1306	5–50	
PCVS1308	5–50	
PCVS1354	5–50	
PCVS1356	5–50	
PCVS1358	5–50	
PCVS1404	5–50	
PCVS1406	5–50	
PCVS1408	5–50	
PCVS1504	5–50	
PCVS1506	5–50	
PCVS1508	5–50	
PCVS1604	5–50	
PCVS1606	5–50	
PCVS1608	5–50	
PCVS2204	5–51	
PCVS2206	5–51	
PCVS2208	5–51	
PCVS2254	5–51	
PCVS2256	5–51	
PCVS2258	5–51	
PCVS2304	5–51	
PCVS2306	5–51	
PCVS2308	5–51	
PCVS2354	5–51	
PCVS2356	5–51	
PCVS2358	5–51	
PCVS2404	5–51	
PCVS2406	5–51	
PCVS2408	5–51	
PCVS2504	5–51	
PCVS2506	5–51	
PCVS2508	5–51	
PCVS2604	5–51	
PCVS2606	5–51	
PCVS2608	5–51	
PCVS3204	5–52	
PCVS3206	5–52	
PCVS3208	5–52	
PCVS3254	5–52	
PCVS3256	5–52	
PCVS3258	5–52	
PCVS3304	5–52	
PCVS3306	5–52	
PCVS3308	5–52	
PCVS3354	5–52	
PCVS3356	5–52	
PCVS3358	5–52	
PCVS3404	5–52	
PCVS3406	5–52	
PCVS3408	5–52	
PCVS3504	5–52	
PCVS3506	5–52	
PCVS3508	5–52	
PCVS3604	5–52	

List of codes

Code	Page	Weight KG
PCVS3606	5–52	
PCVS3608	5–52	
PDCB1820	2–35	
PDCB1820	5–46	
PDCB1830	2–35	
PDCB1830	5–47	
PDCB1840	2–35	
PDCB1840	5–46	
PDCB1844	2–35	
PDCB1844	5–47	
PDCB2020	2–35	
PDCB2020	5–46	
PDCB2030	2–35	
PDCB2030	5–47	
PDCB2040	2–35	
PDCB2040	5–46	
PDCB2044	2–35	
PDCB2044	5–47	
PDFC0200	6–8	
PDFC0300	6–8	
PDFC0500	6–8	
PDFC0700	6–8	
PDFC0900	6–8	
PDGT4738	4–46	
PDGT5738	4–46	
PDGX1738	4–46	
PDGX2738	4–46	
PDGX3738	4–46	
PDGX4738	4–46	
PDLB1810	2–34	
PDLB1810	6–19	
PDLB1810	6–36	
PDLB1816	2–33	
PDLB1816	6–19	
PDLB1816	6–35	
PDLB1825	6–19	
PDLB1826	6–19	
PDLB1830	2–34	
PDLB1836	2–33	
PDLB1840	2–34	
PDLB1846	2–33	
PDLB1850	6–19	
PDLB1852	6–40	
PDLB1856	6–19	
PDLB1860	2–34	
PDLB1860	6–36	
PDLB1866	2–33	
PDLB1866	6–35	
PDLB1875	6–19	
PDLB1876	6–19	
PDLB1880	2–34	
PDLB1880	6–36	
PDLB1886	2–33	
PDLB1886	6–35	
PDLB2010	2–34	
PDLB2010	6–19	
PDLB2010	6–36	
PDLB2016	2–33	
PDLB2016	6–19	
PDLB2016	6–35	
PDLB2025	6–19	
PDLB2026	6–19	
PDLB2030	2–34	
PDLB2036	2–33	
PDLB2040	2–34	
PDLB2046	2–33	
PDLB2050	6–19	
PDLB2052	6–40	
PDLB2056	6–19	
PDLB2060	2–34	
PDLB2060	6–36	
PDLB2066	2–33	
PDLB2066	6–35	
PDLB2075	6–19	
PDLB2076	6–19	
PDLB2080	2–34	
PDLB2080	6–36	
PDLB2086	2–33	
PDLB2086	6–35	
PDLB2120	2–34	
PDLB2500	2–34	
PDLB8120	2–34	
PDLB8500	2–34	
PDLG1810	2–33	
PDLG1810	6–18	
PDLG1810	6–35	
PDLG1816	2–32	
PDLG1816	6–18	
PDLG1816	6–34	
PDLG1840	2–33	
PDLG1842	2–32	
PDLG1844	2–32	
PDLG1846	2–32	
PDLG1850	6–18	
PDLG1856	6–18	
PDLG1860	2–33	
PDLG1860	6–35	
PDLG1862	2–32	
PDLG1864	2–32	
PDLG1866	2–32	
PDLG1866	6–34	
PDLG1870	6–18	
PDLG1876	6–18	
PDLG1880	2–33	
PDLG1880	6–35	
PDLG1882	2–32	
PDLG1886	2–32	
PDLG1886	6–34	
PDLG2010	2–33	
PDLG2010	6–18	
PDLG2010	6–35	
PDLG2016	2–32	
PDLG2016	6–34	
PDLG2040	2–33	
PDLG2042	2–32	
PDLG2044	2–32	
PDLG2046	2–32	
PDLG2050	6–18	
PDLG2056	6–18	
PDLG2060	2–33	
PDLG2060	6–35	
PDLG2062	2–32	
PDLG2064	2–32	
PDLG2066	2–32	
PDLG2066	6–18	
PDLG2066	6–34	
PDLG2070	6–18	
PDLG2076	6–18	
PDLG2080	2–33	
PDLG2080	6–35	
PDLG2082	2–32	
PDLG2086	2–32	
PDLG2086	6–34	
PDLG2420	2–33	
PDLG2440	2–33	
PDLG2500	2–34	
PDLG2620	2–33	
PDLG2640	2–33	
PDLG2820	2–33	
PDLG8420	2–33	
PDLG8440	2–33	
PDLG8500	2–34	
PDLG8620	2–33	
PDLG8640	2–33	
PDLG8820	2–33	
PDPT4631	4–45	
PDPT4738	4–46	
PDPT5631	4–45	
PDPT5738	4–46	
PDPT6738	4–46	
PDPX1631	4–45	
PDPX1738	4–46	
PDPX2631	4–45	
PDPX2738	4–46	
PDPX3631	4–45	
PDPX3738	4–46	
PDPX4631	4–45	
PDPX4738	4–46	
PDRR0400	3–92	
PDRR0600	3–92	
PDRR0800	3–92	
PDTT4631	4–45	
PDTT5631	4–45	
PDTT6631	4–45	
PDTT7631	4–45	
PDTT7631	4–45	
PDTX1631	4–45	
PDTX2631	4–45	
PDTX3631	4–45	
PDTX4631	4–45	
PEBL0004	2–40	
PFBS1020	5–46	

List of codes

Code	Page	Weight KG
PFBS1021	5–46	
PFBS1040	5–46	
PFBS1041	5–46	
PFBS8020	5–46	
PFBS8021	5–46	
PFBS8040	5–46	
PFBS8041	5–46	
PFCF1030	2–24	
PFCF1030	6–14	
PFCF1035	2–24	
PFCF1050	2–24	
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PFCF1050	6–31	
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PFCF1070	6–31	
PFCF1090	2–24	
PFCF1090	6–14	
PFCF1090	6–31	
PFCF2031	2–25	
PFCF2051	2–25	
PFCF2071	2–25	
PFCF2091	2–25	
PFCF2520	6–14	
PFCF2530	6–14	
PFCF2550	6–14	
PFCF2570	6–14	
PFCF2590	6–14	
PFCF3020	2–24	
PFCF3030	2–24	
PFCF3035	2–24	
PFCF3050	2–24	
PFCF3050	6–14	
PFCF3070	2–24	
PFCF3090	2–24	
PFCF4020	2–24	
PFCF4030	2–24	
PFCF4031	2–25	
PFCF4035	2–24	
PFCF4050	2–24	
PFCF4051	2–25	
PFCF4070	2–24	
PFCF4071	2–25	
PFCF4090	2–24	
PFCF4091	2–25	
PFCF5020	6–14	
PFCF5050	6–14	
PFCF5070	6–14	
PFCF5090	6–14	
PFCF6020	2–24	
PFCF6030	2–24	
PFCF6035	2–24	
PFCF6050	2–24	
PFCF6050	6–31	
PFCF6070	2–24	
PFCF6070	6–31	
PFCF6090	2–24	

Code	Page	Weight KG
PFCF6090	2–24	
PFCF6090	6–14	
PFCF6090	6–31	
PFCF7520	6–14	
PFCF7530	6–14	
PFCF7550	6–14	
PFCF7570	6–14	
PFCF7590	6–14	
PFCF8020	2–24	
PFCF8030	2–24	
PFCF8035	2–24	
PFCF8050	2–24	
PFCF8050	6–31	
PFCF8070	2–24	
PFCF8070	6–31	
PFCF8090	2–24	
PFCF8090	6–31	
PFCS1050	2–26	
PFCS1050	6–15	
PFCS1050	6–32	
PFCS1070	2–26	
PFCS1070	6–15	
PFCS1070	6–32	
PFCS1090	2–26	
PFCS1090	6–15	
PFCS1090	6–32	
PFCS4050	2–26	
PFCS4070	2–26	
PFCS4090	2–26	
PFCS5050	6–15	
PFCS5070	6–15	
PFCS5090	6–15	
PFCS6050	2–26	
PFCS6050	6–32	
PFCS6070	2–26	
PFCS6070	6–32	
PFCS6090	2–26	
PFCS6090	2–26	
PFCS6090	6–15	
PFCS6090	6–32	
PFCS7550	6–15	
PFCS7570	6–15	
PFCS7590	6–15	
PFCS8050	2–26	
PFCS8050	6–32	
PFCS8070	2–26	
PFCS8070	6–32	
PFCS8090	2–26	
PFCS8090	6–32	
PFNL1810	6–26	
PFNL1860	6–26	
PFNL1880	6–26	
PFNL2010	6–26	
PFNL2060	6–26	
PFNL2080	6–26	
PFPT6738	4–46	
PFRJ0500	6–40	

Code	Page	Weight KG
PFTT6631	4–45	
PFTT7631	4–45	
PFTT7631	4–45	
PFVS1030	5–47	
PFVS1032	5–47	
PFVS1040	5–47	
PFVS1042	5–47	
PFVS2012	5–31	
PFVS2040	5–29	
PFVS2042	5–24	
PFVS2042	5–31	
PFVS2042	5–32	
PFVS2060	5–29	
PFVS2062	5–24	
PFVS2062	5–31	
PFVS2080	5–29	
PFVS2082	5–24	
PFVS2082	5–31	
PFVS2122	5–31	
PFVS2130	5–30	
PFVS2132	5–32	
PFVS2140	5–30	
PFVS2220	5–30	
PFVS2220	5–32	
PFVS2222	5–32	
PFVS2223	5–32	
PFVS2240	5–30	
PFVS2240	5–32	
PFVS2242	5–32	
PFVS2243	5–32	
PFVS2562	5–31	
PFVS2582	5–31	
PFVS3012	5–31	
PFVS3042	5–31	
PFVS3042	5–32	
PFVS3062	5–24	
PFVS3062	5–25	
PFVS3062	5–31	
PFVS3082	5–24	
PFVS3082	5–25	
PFVS3082	5–31	
PFVS3122	5–31	
PFVS3132	5–32	
PFVS3222	5–32	
PFVS3223	5–32	
PFVS3242	5–32	
PFVS3243	5–32	
PFVS8030	5–47	
PFVS8032	5–47	
PFVS8040	5–47	
PFVS8042	5–47	
PHBT4301	3–96	
PHBT4402	3–96	
PHBT4404	3–96	
PHBT4406	3–96	
PHBT4406	3–96	
PHBT5304	3–96	

List of codes

Code	Page	Weight KG
PHBT5306	3–96	
PHBT5306	3–96	
PHBT5309	3–96	
PHBT5312	3–96	
PHBT5314	3–96	
PHBT5314	3–96	
PHBT5326	3–96	
PHBT5326	3–96	
PHBT5404	3–96	
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PHBT5406	3–96	
PHBT5409	3–96	
PHBT5412	3–96	
PHBT5414	3–96	
PHBT5414	3–96	
PHBT5426	3–96	
PHBT5426	3–96	
PHBX1101	3–94	
PHBX1105	3–94	
PHBX1323	3–94	
PHBX1401	3–94	
PHBX1404	3–94	
PHBX1405	3–94	
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PHBX1409	3–94	
PHBX1422	3–94	
PHBX1422	3–94	
PHBX1423	3–94	
PHBX1424	3–94	
PHBX1424	3–94	
PHBX1427	3–94	
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PHBX2312	3–94	
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PHBX2401	3–94	
PHBX2402	3–94	
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PHBX2423	3–94	
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PHBX2425	3–94	
PHBX2425	3–94	
PHBX2427	3–94	
PHBX2428	3–94	
PHBX2431	3–94	
PHBX3301	3–94	
PHBX3305	3–94	
PHBX3401	3–94	
PHBX3404	3–94	
PHBX3405	3–94	
PHBX3407	3–94	
PHBX3409	3–94	
PHBX3422	3–94	
PHBX3422	3–95	
PHBX3423	3–95	
PHBX3424	3–94	
PHBX3424	3–95	
PHBX3427	3–94	
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PHBX4402	3–95	
PHBX4404	3–95	
PHBX4405	3–95	
PHBX4407	3–95	
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PHBX4412	3–95	
PHBX4423	3–95	
PHBX4424	3–95	
PHBX4424	3–95	
PHBX4425	3–95	
PHBX4425	3–95	
PHBX4427	3–95	
PHBX4428	3–95	
PHBX4431	3–95	
PHBX5304	3–96	
PHBX5306	3–96	
PHBX5307	3–96	
PHBX5309	3–96	
PHBX5312	3–96	
PHBX5314	3–96	
PHBX5326	3–96	
PHBX5329	3–96	
PHBX5404	3–96	
PHBX5406	3–96	
PHBX5409	3–96	
PHBX5412	3–96	
PHBX5414	3–96	
PHBX5420	3–96	
PHBX5426	3–96	
PHBX5427	3–96	
PHCE1240	3–100	
PHCE1240	3–100	
PHCE1240	3–108	
PHCE1240	3–108	
PHCE1241	3–108	
PHCE1241	3–108	
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PHCT4402	3–100	
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PHCT4423	3–100	
PHCT5304	3–100	
PHCT5306	3–100	
PHCT5306	3–101	
PHCT5307	3–113	
PHCT5309	3–101	
PHCT5310	3–113	
PHCT5312	3–101	
PHCT5314	3–101	
PHCT5314	3–101	
PHCT5326	3–101	
PHCT5326	3–101	
PHCT5402	3–101	
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PHCT5425	3–101	
PHCT5426	3–101	
PHCT5426	3–101	
PHCT5427	3–101	
PHCT5431	3–101	
PHCT5432	3–101	
PHCT6301	3–101	
PHCT6304	3–101	
PHCT6305	3–102	
PHCT6312	3–102	
PHCT6314	3–102	
PHCT6314	3–102	
PHCT6400	3–102	
PHCT6401	3–102	
PHCT6402	3–102	
PHCT6403	3–102	
PHCT6404	3–102	
PHCT6405	3–102	
PHCT6410	3–102	
PHCT6411	3–102	
PHCT6412	3–102	
PHCT6425	3–102	
PHCT7329	3–102	
PHCT7329	3–102	
PHCT7329	3–102	
PHCT7329	3–102	
PHCT7329	3–102	
PHCT7418	3–102	
PHCT7418	3–102	
PHCT7420	3–102	
PHCT7420	3–102	
PHCT7420	3–102	
PHCT7430	3–102	
PHCT7430	3–102	
PHCT7430	3–102	

List of codes

Code	Page	Weight KG
PHCT7430	3–102	
PHCT7430	3–102	
PHCX1101	3–97	
PHCX1105	3–97	
PHCX1323	3–97	
PHCX1401	3–97	
PHCX1404	3–97	
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PHCX1427	3–97	
PHCX2300	3–97	
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PHCX2310	3–97	
PHCX2312	3–97	
PHCX2400	3–98	
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PHCX2402	3–98	
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PHCX2412	3–98	
PHCX2417	3–98	
PHCX2423	3–98	
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PHCX2424	3–98	
PHCX2425	3–98	
PHCX2425	3–98	
PHCX2427	3–97	
PHCX2428	3–98	
PHCX2431	3–98	
PHCX3301	3–98	
PHCX3305	3–98	
PHCX3401	3–98	
PHCX3404	3–98	
PHCX3405	3–98	
PHCX3407	3–98	
PHCX3409	3–98	
PHCX3422	3–98	
PHCX3422	3–98	
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PHCX3427	3–98	
PHCX4301	3–98	
PHCX4400	3–98	
PHCX4401	3–98	
PHCX4402	3–98	
PHCX4404	3–98	
PHCX4405	3–98	

Code	Page	Weight KG
PHCX4407	3–98	
PHCX4409	3–98	
PHCX4410	3–98	
PHCX4412	3–98	
PHCX4417	3–99	
PHCX4423	3–98	
PHCX4424	3–98	
PHCX4424	3–98	
PHCX4425	3–98	
PHCX4425	3–98	
PHCX4427	3–98	
PHCX4428	3–99	
PHCX4431	3–98	
PHCX5304	3–99	
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PHCX6405	3–100	
PHCX6410	3–100	
PHCX6411	3–100	
PHCX6412	3–100	
PHCX6425	3–100	
PHDE1240	3–106	

Code	Page	Weight KG
PHDE1240	3–106	
PHDE1240	3–108	
PHDE1240	3–108	
PHDE1241	3–108	
PHDE1241	3–108	
PHDR0004	2–41	
PHDT4402	3–106	
PHDT4403	3–106	
PHDT5304	3–106	
PHDT5306	3–106	
PHDT5306	3–106	
PHDT5309	3–106	
PHDT5309	3–106	
PHDT5312	3–106	
PHDT5314	3–106	
PHDT5314	3–106	
PHDT5326	3–106	
PHDT5326	3–106	
PHDT5404	3–106	
PHDT5406	3–106	
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PHDT5409	3–106	
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PHDT6402	3–107	
PHDT6403	3–107	
PHDT6404	3–106	
PHDT6405	3–106	
PHDT6412	3–106	
PHDT6414	3–106	
PHDT6414	3–107	
PHDT7329	3–107	
PHDT7329	3–107	
PHDT7329	3–107	
PHDT7329	3–107	
PHDT7329	3–107	
PHDT7418	3–107	
PHDT7418	3–107	
PHDT7420	3–107	

List of codes

Code	Page	Weight KG
PHDT7420	3–107	
PHDT7420	3–107	
PHDT7430	3–107	
PHDT7430	3–107	
PHDT7430	3–107	
PHDT7430	3–107	
PHDT7430	3–107	
PHDX1105	3–103	
PHDX1301	3–103	
PHDX1401	3–103	
PHDX1403	3–103	
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PHDX1404	3–103	
PHDX1407	3–103	
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PHDX1423	3–103	
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PHDX2410	3–103	
PHDX2412	3–103	
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PHDX2425	3–103	
PHDX2427	3–103	
PHDX2428	3–103	
PHDX2432	3–103	
PHDX3401	3–104	
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PHDX4407	3–104	
PHDX4409	3–104	
PHDX4410	3–104	
PHDX4412	3–104	
PHDX4417	3–104	
PHDX4422	3–104	
PHDX4423	3–104	

Code	Page	Weight KG
PHDX4425	3–104	
PHDX4427	3–104	
PHDX4428	3–104	
PHDX5304	3–104	
PHDX5306	3–104	
PHDX5307	3–104	
PHDX5309	3–104	
PHDX5312	3–105	
PHDX5314	3–105	
PHDX5320	3–104	
PHDX5326	3–104	
PHDX5404	3–104	
PHDX5406	3–104	
PHDX5407	3–104	
PHDX5409	3–104	
PHDX5411	3–105	
PHDX5412	3–105	
PHDX5414	3–105	
PHDX5420	3–104	
PHDX5423	3–104	
PHDX5425	3–105	
PHDX5426	3–104	
PHDX5428	3–104	
PHDX5429	3–104	
PHDX5431	3–104	
PHDX5432	3–105	
PHDX6301	3–105	
PHDX6304	3–105	
PHDX6305	3–105	
PHDX6312	3–105	
PHDX6314	3–105	
PHDX6315	3–105	
PHDX6401	3–105	
PHDX6402	3–105	
PHDX6403	3–105	
PHDX6404	3–105	
PHDX6405	3–105	
PHDX6412	3–105	
PHDX6414	3–105	
PHDX6415	3–105	
PHFR4180	2–41	
PHGT7329	3–100	
PHGT7329	3–100	
PHGT7329	3–100	
PHGT7329	3–100	
PHGT7329	3–100	
PHGT7418	3–100	
PHGT7418	3–100	
PHGT7420	3–100	
PHGT7420	3–100	
PHGT7420	3–100	
PHGT7430	3–100	
PHGT7430	3–100	
PHGT7430	3–100	
PHIT7329	3–105	
PHIT7329	3–105	
PHIT7329	3–105	

Code	Page	Weight KG
PHIT7329	3–105	
PHIT7329	3–105	
PHIT7418	3–105	
PHIT7418	3–106	
PHIT7420	3–105	
PHIT7420	3–105	
PHIT7420	3–105	
PHIT7430	3–106	
PHIT7430	3–106	
PHIT7430	3–106	
PIDH0010	2–38	
PIDH0010	2–38	
PIEH0008	2–38	
PIFH0020	2–38	
PIRH0405	2–38	
PIRH0455	2–38	
PIRH1242	2–38	
PIRH2432	2–38	
PISH0007	2–38	
PITE7120	3–120	
PITE7120	4–46	
PITH0064	2–38	
PITH1234	3–120	
PITH1234	4–46	
PITH5000	3–120	
PITH5000	4–46	
PITH6000	3–120	
PITH6000	4–46	
PITV6000	4–46	
PKAT5050	2–22	
PKAT5050	6–12	
PKAT5050	6–30	
PKAT7070	2–22	
PKAT7070	6–12	
PKAT7070	6–30	
PKAT9090	2–22	
PKAT9090	6–12	
PKAT9090	6–30	
PKDT0200	2–22	
PKDT0200	6–12	
PKDT0200	6–30	
PKDT0250	6–12	
PKDT0250	6–30	
PKDT0300	2–22	
PKDT0300	6–12	
PKDT0300	6–30	
PKDT0301	2–22	
PKDT0301	6–12	
PKDT0301	6–30	
PKDT0400	2–22	
PKDT0400	6–12	
PKDT0400	6–30	
PKDT0500	6–12	
PKDT0500	6–30	
PKDT0501	2–22	
PKDT0501	6–12	
PKDT0501	6–30	

List of codes

Code	Page	Weight KG
PKDT0600	2–22	
PKDT0600	6–12	
PKDT0600	6–30	
PKDT0700	2–22	
PKDT0700	6–12	
PKDT0700	6–30	
PKDT0750	6–12	
PKDT0750	6–30	
PKDT0800	2–22	
PKDT0800	6–12	
PKDT0800	6–30	
PKDT0900	2–22	
PKDT0900	6–12	
PKDT0900	6–30	
PKDT1000	2–22	
PKDT1000	6–12	
PKDT1000	6–30	
PKDT1250	2–22	
PKDT1250	6–12	
PKDT1250	6–30	
PKDT1250	2–22	
PKMI0002	2–39	
PKNL1210	6–26	
PKNL1260	6–26	
PKNL1280	6–26	
PKOH1060	3–121	
PKOH1080	3–121	
PKOH1660	3–121	
PKOH1680	3–121	
PKOH3160	3–121	
PKOH3180	3–121	
PKOH6360	3–121	
PKOH6380	3–121	
PKOV1060	3–121	
PKOV1080	3–121	
PKOV1660	3–121	
PKOV1680	3–121	
PKOV3160	3–121	
PKOV3180	3–121	
PKOV6360	3–121	
PKOV6380	3–121	
PKST0200	2–22	
PKST0200	6–12	
PKST0200	6–30	
PKST0250	6–12	
PKST0250	6–30	
PKST0300	2–22	
PKST0300	6–12	
PKST0300	6–30	
PKST0301	2–22	
PKST0301	6–12	
PKST0301	6–30	
PKST0400	2–22	
PKST0400	6–12	
PKST0400	6–30	
PKST0500	6–12	
PKST0500	6–30	

Code	Page	Weight KG
PKST0501	2–22	
PKST0501	6–12	
PKST0501	6–30	
PKST0600	2–22	
PKST0600	6–12	
PKST0600	6–30	
PKST0700	2–22	
PKST0700	6–12	
PKST0700	6–30	
PKST0750	6–12	
PKST0750	6–30	
PKST0800	2–22	
PKST0800	6–12	
PKST0800	6–30	
PKST0900	2–22	
PKST0900	6–12	
PKST0900	6–30	
PKST1000	2–22	
PKST1000	6–12	
PKST1000	6–30	
PKST1250	2–22	
PKST1250	2–22	
PKST1250	6–12	
PKST1250	6–30	
PLLS2050	5–33	
PLLS2070	5–33	
PLLS2090	5–33	
PLLS2570	5–33	
PLLS2590	5–33	
PLLS3050	5–33	
PLLS3070	5–33	
PLLS3090	5–33	
PLSU0300	5–24	
PLSU0300	5–24	
PLSU0300	5–25	
PLVS0552	5–42	
PLVS0572	5–42	
PLVS0592	5–42	
PLVS1052	5–42	
PLVS1072	5–42	
PLVS1092	5–42	
PLVS1552	5–42	
PLVS1572	5–42	
PLVS1592	5–42	
PLVS1752	5–44	
PLVS1772	5–44	
PLVS1792	5–44	
PLVS2052	5–38	
PLVS2052	5–44	
PLVS2072	5–38	
PLVS2072	5–44	
PLVS2092	5–38	
PLVS2092	5–44	
PLVS2252	5–44	
PLVS2272	5–44	
PLVS2292	5–44	
PLVS2552	5–38	

Code	Page	Weight KG
PLVS2552	5–44	
PLVS2552	5–44	
PLVS2572	5–38	
PLVS2572	5–44	
PLVS2572	5–44	
PLVS2592	5–38	
PLVS2592	5–44	
PLVS2592	5–44	
PLVS3052	5–38	
PLVS3052	5–44	
PLVS3072	5–38	
PLVS3072	5–44	
PLVS3092	5–38	
PLVS3092	5–44	
PLVS3552	5–38	
PLVS3552	5–44	
PLVS3572	5–38	
PLVS3572	5–44	
PLVS3592	5–38	
PLVS3592	5–44	
PLVS4052	5–38	
PLVS4072	5–38	
PLVS4092	5–38	
PLVS5052	5–38	
PLVS5072	5–38	
PLVS5092	5–38	
PLVS6052	5–38	
PLVS6072	5–38	
PLVS6092	5–38	
PLVS7052	5–28	
PLVS7052	5–45	
PLVS7052	5–48	
PLVS7072	5–28	
PLVS7072	5–45	
PLVS7072	5–48	
PLVS7092	5–28	
PLVS7092	5–45	
PLVS7092	5–48	
PMCS1755	5–53	
PMCS1757	5–53	
PMCS1759	5–53	
PMCS2050	5–53	
PMCS2070	5–53	
PMCS2090	5–53	
PMCS2255	5–53	
PMCS2257	5–53	
PMCS2259	5–53	
PMCS2550	5–53	
PMCS2570	5–53	
PMCS2590	5–53	
PMCS3050	5–53	
PMCS3070	5–53	
PMCS3090	5–53	
PPAM0100	2–17	
PPAM0100	6–9	
PPAM0100	6–28	
PPAM0200	2–17	

List of codes

Code	Page	Weight KG
PPAM0200	6–9	
PPAM0200	6–28	
PPBS0050	5–33	
PPBS0100	5–33	
PPBS0150	5–33	
PPBS0200	5–33	
PPBS0250	5–33	
PPBS0300	5–33	
PPCV1800	2–35	
PPCV1800	6–20	
PPCV1800	6–36	
PPCV2000	2–35	
PPCV2000	6–20	
PPCV2000	6–36	
PPDS0200	5–24	
PPEA1810	2–29	
PPEA1810	6–33	
PPEA1830	2–29	
PPEA1830	2–31	
PPEA1830	6–17	
PPEA1840	2–29	
PPEA1850	2–31	
PPEA1850	6–17	
PPEA1850	6–34	
PPEA1860	2–29	
PPEA1860	6–33	
PPEA1870	2–31	
PPEA1870	6–17	
PPEA1870	6–34	
PPEA1875	6–16	
PPEA1880	2–29	
PPEA1880	6–33	
PPEA1890	2–31	
PPEA1890	6–17	
PPEA1890	6–34	
PPEA2010	2–29	
PPEA2010	6–33	
PPEA2030	2–29	
PPEA2030	2–31	
PPEA2030	6–17	
PPEA2040	2–29	
PPEA2050	2–31	
PPEA2050	6–17	
PPEA2050	6–34	
PPEA2060	2–29	
PPEA2060	6–33	
PPEA2070	2–31	
PPEA2070	6–17	
PPEA2070	6–34	
PPEA2075	6–16	
PPEA2080	2–29	
PPEA2080	6–33	
PPEA2090	2–31	
PPEA2090	6–17	
PPEA2090	6–34	
PPEB1810	2–28	
PPEB1810	6–15	

Code	Page	Weight KG
PPEB1810	6–32	
PPEB1816	2–28	
PPEB1816	6–15	
PPEB1816	6–32	
PPEB1820	2–30	
PPEB1820	6–16	
PPEB1825	6–15	
PPEB1826	2–29	
PPEB1826	6–16	
PPEB1827	6–15	
PPEB1830	2–28	
PPEB1830	2–30	
PPEB1830	6–16	
PPEB1836	2–28	
PPEB1836	2–29	
PPEB1836	6–16	
PPEB1840	2–28	
PPEB1846	2–28	
PPEB1850	2–30	
PPEB1850	6–15	
PPEB1850	6–16	
PPEB1850	6–33	
PPEB1856	2–29	
PPEB1856	6–15	
PPEB1856	6–16	
PPEB1856	6–33	
PPEB1860	2–28	
PPEB1860	6–32	
PPEB1866	2–28	
PPEB1866	6–32	
PPEB1870	2–30	
PPEB1870	6–16	
PPEB1870	6–33	
PPEB1875	6–15	
PPEB1876	2–29	
PPEB1876	6–16	
PPEB1876	6–33	
PPEB1877	6–15	
PPEB1880	2–28	
PPEB1880	6–32	
PPEB1886	2–28	
PPEB1886	6–32	
PPEB1890	2–30	
PPEB1890	6–16	
PPEB1890	6–33	
PPEB1896	2–29	
PPEB1896	6–16	
PPEB1896	6–33	
PPEB2010	2–28	
PPEB2010	6–15	
PPEB2010	6–32	
PPEB2016	2–28	
PPEB2016	6–15	
PPEB2016	6–32	
PPEB2020	2–30	
PPEB2020	6–16	
PPEB2025	6–15	

Code	Page	Weight KG
PPEB2026	2–29	
PPEB2026	6–16	
PPEB2027	6–15	
PPEB2030	2–28	
PPEB2030	2–30	
PPEB2030	6–16	
PPEB2036	2–28	
PPEB2036	2–29	
PPEB2036	6–16	
PPEB2040	2–28	
PPEB2046	2–28	
PPEB2050	2–30	
PPEB2050	6–15	
PPEB2050	6–16	
PPEB2050	6–33	
PPEB2056	2–29	
PPEB2056	6–15	
PPEB2056	6–16	
PPEB2056	6–33	
PPEB2060	2–28	
PPEB2060	6–32	
PPEB2066	2–28	
PPEB2066	6–32	
PPEB2070	2–30	
PPEB2070	6–16	
PPEB2070	6–33	
PPEB2075	6–15	
PPEB2076	2–29	
PPEB2076	6–16	
PPEB2076	6–33	
PPEB2077	6–15	
PPEB2080	2–28	
PPEB2080	6–32	
PPEB2086	2–28	
PPEB2086	6–32	
PPEB2090	2–30	
PPEB2090	6–16	
PPEB2090	6–33	
PPEB2096	2–29	
PPEB2096	6–16	
PPEB2096	6–33	
PPFH0250	6–20	
PPFH0300	2–35	
PPFH0400	2–35	
PPFH0500	6–20	
PPFH0600	2–35	
PPFH0600	6–36	
PPFH0750	6–20	
PPFH0800	2–35	
PPFH0800	6–36	
PPFH1000	2–35	
PPFH1000	6–20	
PPFH1000	6–36	
PPFH1250	2–35	
PPFH1250	6–20	
PPFM1010	2–18	
PPFM1010	6–9	

List of codes

Code	Page	Weight KG
PPFM1010	6–28	
PPFM1020	2–18	
PPFM1020	6–9	
PPFM1025	6–9	
PPFM1030	2–18	
PPFM1030	2–18	
PPFM1030	6–9	
PPFM1040	2–18	
PPFM1050	2–18	
PPFM1050	6–9	
PPFM1050	6–9	
PPFM1050	6–28	
PPFM1060	2–18	
PPFM1060	6–28	
PPFM1070	2–18	
PPFM1070	6–9	
PPFM1070	6–28	
PPFM1075	6–9	
PPFM1080	2–18	
PPFM1080	6–28	
PPFM1090	2–18	
PPFM1090	6–9	
PPFM1090	6–28	
PPFM1250	2–18	
PPFM1250	6–9	
PPFV1800	2–35	
PPFV1800	6–20	
PPFV1800	6–36	
PPFV2000	2–35	
PPFV2000	6–20	
PPFV2000	6–36	
PPIM0100	2–17	
PPIM0200	2–17	
PPLA1820	2–29	
PPLA1820	6–16	
PPLA2020	2–29	
PPLA2020	6–16	
PPLB1820	2–28	
PPLB1820	6–15	
PPLB2020	2–28	
PPLB2020	6–15	
PPMU3060	4–56	
PPMU3080	4–56	
PPNL3010	6–26	
PPNL3060	6–26	
PPNL3080	6–26	
PPNL4010	6–26	
PPNL4060	6–26	
PPNL4080	6–26	
PPRA1820	2–29	
PPRA1820	6–16	
PPRA2020	2–29	
PPRA2020	6–16	
PPRB1820	2–28	
PPRB1820	6–15	
PPRB2020	2–28	
PPRB2020	6–15	

Code	Page	Weight KG
PPRS0150	5–24	
PPRS0200	5–24	
PPRS0200	5–29	
PPRS0250	5–24	
PPRS0250	5–29	
PPRS0300	5–24	
PPRS0300	5–29	
PPRS0350	5–24	
PPRS0350	5–29	
PPRS0400	5–24	
PPRS0400	5–29	
PPRS0450	5–24	
PPRS0450	5–29	
PPRS0500	5–24	
PPRS0500	5–29	
PPRS0600	5–24	
PPRS0600	5–29	
PPUN0100	2–18	
PPUN0100	2–37	
PPVS2200	5–23	
PPVS2200	5–25	
PPVS2250	5–23	
PPVS2250	5–25	
PPVS2300	5–23	
PPVS2300	5–25	
PPVS2350	5–23	
PPVS2400	5–23	
PPVS2450	5–23	
PPVS2500	5–23	
PPVS2600	5–23	
PPVS2700	5–23	
PRAS0012	2–37	
PRAS0012	2–18	
PRBS1220	5–48	
PRBS1240	5–48	
PRBS8220	5–48	
PRBS8240	5–48	
PRVS0141	5–42	
PRVS0161	5–42	
PRVS0162	5–42	
PRVS0181	5–37	
PRVS0181	5–42	
PRVS0182	5–42	
PRVS0182	5–42	
PRVS0541	5–42	
PRVS0560	5–42	
PRVS0561	5–42	
PRVS0562	5–42	
PRVS0580	5–42	
PRVS0581	5–37	
PRVS0581	5–42	
PRVS0582	5–42	
PRVS0582	5–42	
PRVS1006	5–42	
PRVS1008	5–42	
PRVS1010	5–46	
PRVS1040	5–46	

Code	Page	Weight KG
PRVS1040	5–48	
PRVS1041	5–45	
PRVS1060	5–46	
PRVS1061	5–45	
PRVS1062	5–45	
PRVS1062	5–48	
PRVS1080	5–46	
PRVS1081	5–45	
PRVS1082	5–45	
PRVS1541	5–42	
PRVS1560	5–42	
PRVS1561	5–42	
PRVS1562	5–42	
PRVS1580	5–42	
PRVS1581	5–42	
PRVS1582	5–42	
PRVS1582	5–42	
PRVS1710	5–43	
PRVS1740	5–43	
PRVS1741	5–40	
PRVS1760	5–43	
PRVS1761	5–40	
PRVS1762	5–41	
PRVS1780	5–43	
PRVS1781	5–40	
PRVS1782	5–41	
PRVS2010	5–31	
PRVS2010	5–43	
PRVS2040	5–29	
PRVS2040	5–30	
PRVS2040	5–31	
PRVS2040	5–32	
PRVS2040	5–43	
PRVS2041	5–37	
PRVS2041	5–40	
PRVS2060	5–29	
PRVS2060	5–31	
PRVS2060	5–43	
PRVS2061	5–37	
PRVS2061	5–40	
PRVS2062	5–30	
PRVS2062	5–32	
PRVS2062	5–41	
PRVS2080	5–29	
PRVS2080	5–31	
PRVS2080	5–43	
PRVS2081	5–40	
PRVS2082	5–41	
PRVS2125	5–31	
PRVS2125	5–43	
PRVS2210	5–43	
PRVS2240	5–43	
PRVS2241	5–40	
PRVS2251	5–40	
PRVS2260	5–43	
PRVS2261	5–40	
PRVS2262	5–41	

List of codes

Code	Page	Weight KG
PRVS2280	5–43	
PRVS2282	5–41	
PRVS2510	5–31	
PRVS2510	5–43	
PRVS2510	5–43	
PRVS2512	5–31	
PRVS2512	5–43	
PRVS2512	5–43	
PRVS2541	5–37	
PRVS2560	5–31	
PRVS2560	5–43	
PRVS2560	5–43	
PRVS2561	5–37	
PRVS2561	5–40	
PRVS2561	5–40	
PRVS2562	5–41	
PRVS2562	5–41	
PRVS2580	5–31	
PRVS2580	5–43	
PRVS2580	5–43	
PRVS2581	5–40	
PRVS2581	5–40	
PRVS2582	5–31	
PRVS2582	5–41	
PRVS2582	5–41	
PRVS3010	5–31	
PRVS3010	5–43	
PRVS3041	5–37	
PRVS3041	5–40	
PRVS3041	5–40	
PRVS3060	5–43	
PRVS3060	5–43	
PRVS3061	5–37	
PRVS3061	5–40	
PRVS3061	5–40	
PRVS3062	5–32	
PRVS3062	5–41	
PRVS3060	5–31	
PRVS3080	5–31	
PRVS3080	5–43	
PRVS3080	5–43	
PRVS3081	5–37	
PRVS3081	5–40	
PRVS3081	5–40	
PRVS3082	5–32	
PRVS3082	5–41	
PRVS3125	5–31	
PRVS3125	5–43	
PRVS3501	5–43	
PRVS3510	5–43	
PRVS3510	5–43	
PRVS3541	5–37	
PRVS3561	5–37	
PRVS3581	5–37	
PRVS4041	5–37	
PRVS4061	5–37	
PRVS4081	5–37	

Code	Page	Weight KG
PRVS4560	5–43	
PRVS4580	5–43	
PRVS5041	5–37	
PRVS5060	5–43	
PRVS5061	5–37	
PRVS5080	5–43	
PRVS5081	5–37	
PRVS6041	5–37	
PRVS6060	5–43	
PRVS6061	5–37	
PRVS6080	5–43	
PRVS6081	5–37	
PRVS6560	5–43	
PRVS6580	5–43	
PRVS7010	5–46	
PRVS7040	5–46	
PRVS7041	5–37	
PRVS7041	5–45	
PRVS7060	5–46	
PRVS7061	5–37	
PRVS7061	5–45	
PRVS7062	5–45	
PRVS7080	5–46	
PRVS7081	5–37	
PRVS7081	5–45	
PRVS7082	5–45	
PRVS8010	5–46	
PRVS8040	5–46	
PRVS8040	5–48	
PRVS8041	5–45	
PRVS8060	5–46	
PRVS8061	5–45	
PRVS8062	5–45	
PRVS8062	5–48	
PRVS8080	5–46	
PRVS8081	5–45	
PRVS8082	5–45	
PSAF0016	2–41	
PSBS0065	2–39	
PSCP0024	2–41	
PSCS0579	2–39	
PSES0008	2–39	
PSHF1096	5–39	
PSHF1296	5–39	
PSHF4072	5–39	
PSHF4092	5–39	
PSHF6072	5–39	
PSHF6072	5–39	
PSHF6092	5–39	
PSHF6092	5–39	
PSHF8072	5–39	
PSHF8072	5–39	
PSHF8092	5–39	
PSHF8092	5–39	
PSHS1400	5–52	
PSHS1600	5–52	
PSHS1800	5–52	

Code	Page	Weight KG
PSHS1901	5–23	
PSHS1904	5–23	
PSHS1906	5–23	
PSHS1908	5–23	
PSHS1912	5–23	
PSHS2400	5–52	
PSHS2600	5–52	
PSHS2800	5–52	
PSHS3400	5–52	
PSHS3600	5–52	
PSHS3800	5–52	
PSHS4050	5–38	
PSHS4070	5–38	
PSHS4090	5–38	
PSHS6050	5–38	
PSHS6070	5–38	
PSHS6090	5–38	
PSHS8050	5–38	
PSHS8070	5–38	
PSHS8090	5–38	
PSHW1096	5–39	
PSHW1292	5–39	
PSHW1296	5–39	
PSHW4051	5–39	
PSHW4071	5–39	
PSHW4072	5–39	
PSHW4091	5–39	
PSHW4092	5–39	
PSHW5061	5–25	
PSHW5081	5–25	
PSHW6051	5–39	
PSHW6071	5–39	
PSHW6072	5–39	
PSHW6074	5–39	
PSHW6091	5–39	
PSHW6092	5–39	
PSHW6094	5–39	
PSHW8051	5–39	
PSHW8071	5–39	
PSHW8072	5–39	
PSHW8074	5–39	
PSHW8091	5–39	
PSHW8092	5–39	
PSHW8094	5–39	
PSVF6042	5–26	
PSVF6062	5–25	
PSVF6064	5–25	
PSVF6082	5–25	
PSVF6084	5–25	
PSVF7016	5–25	
PSVF7126	5–25	
PSVS0055	5–35	
PSVS0057	5–35	
PSVS0105	5–37	
PSVS0107	5–37	
PSVS0109	5–37	
PSVS0155	5–37	

List of codes

Code	Page	Weight KG
PSVS0157	5–37	
PSVS0159	5–37	
PSVS0205	5–37	
PSVS0207	5–37	
PSVS0209	5–37	
PSVS0255	5–37	
PSVS0257	5–37	
PSVS0259	5–37	
PSVS0305	5–37	
PSVS0307	5–37	
PSVS0309	5–37	
PSVS0505	5–37	
PSVS0507	5–37	
PSVS0509	5–37	
PSVS2051	5–36	
PSVS2070	5–35	
PSVS2071	5–36	
PSVS2090	5–35	
PSVS2091	5–36	
PSVS2550	5–35	
PSVS2551	5–36	
PSVS2553	5–36	
PSVS2570	5–35	
PSVS2571	5–36	
PSVS2573	5–36	
PSVS2590	5–35	
PSVS2591	5–36	
PSVS2593	5–36	
PSVS3050	5–35	
PSVS3051	5–36	
PSVS3070	5–35	
PSVS3071	5–36	
PSVS3090	5–35	
PSVS3091	5–36	
PSVS3550	5–35	
PSVS3551	5–36	
PSVS3553	5–36	
PSVS3570	5–35	
PSVS3571	5–36	
PSVS3573	5–36	
PSVS3590	5–35	
PSVS3591	5–36	
PSVS3593	5–36	
PSVS4050	5–35	
PSVS4070	5–35	
PSVS4090	5–35	
PSVS5050	5–35	
PSVS5052	5–36	
PSVS5053	5–36	
PSVS5070	5–35	
PSVS5072	5–36	
PSVS5073	5–36	
PSVS5090	5–35	
PSVS5092	5–36	
PSVS5093	5–36	
PSVS6050	5–35	
PSVS6070	5–35	
PSVS6090	5–35	
PSVW5061	5–25	
PSVW5081	5–25	
PSVW6041	5–26	
PSVW6042	5–26	
PSVW6062	5–25	
PSVW6064	5–25	
PSVW6082	5–25	
PSVW6084	5–25	
PSVW6126	5–25	
PSVW7016	5–25	
PSVW7126	5–25	
PTAB1076	2–26	
PTAB1096	2–26	
PTAB3070	2–26	
PTAB3090	2–26	
PTAB4070	2–26	
PTAB4090	2–26	
PTAB6076	2–26	
PTAB6096	2–26	
PTAB8076	2–26	
PTAB8096	2–26	
PTBB1012	2–21	
PTBB1020	2–21	
PTBB1020	6–11	
PTBB1026	2–19	
PTBB1026	6–10	
PTBB1026	6–29	
PTBB1030	2–21	
PTBB1030	6–11	
PTBB1036	2–19	
PTBB1036	6–10	
PTBB1036	6–29	
PTBB1050	2–21	
PTBB1050	6–11	
PTBB1050	6–29	
PTBB1056	2–19	
PTBB1056	6–10	
PTBB1056	6–28	
PTBB1056	6–29	
PTBB1070	2–21	
PTBB1070	6–11	
PTBB1070	6–29	
PTBB1076	2–19	
PTBB1076	6–10	
PTBB1076	6–28	
PTBB1076	6–29	
PTBB1090	2–21	
PTBB1090	6–11	
PTBB1090	6–29	
PTBB1096	2–19	
PTBB1096	6–10	
PTBB1096	6–28	
PTBB1096	6–29	
PTBB1212	2–21	
PTBB1220	2–21	
PTBB1220	6–11	
PTBB1230	2–21	
PTBB1230	6–11	
PTBB1250	6–11	
PTBB1270	6–11	
PTBB1290	2–21	
PTBB1290	6–11	
PTBB2520	6–11	
PTBB2526	6–10	
PTBB2526	6–29	
PTBB2530	6–11	
PTBB2536	6–10	
PTBB2536	6–29	
PTBB2550	6–11	
PTBB2556	6–10	
PTBB2556	6–29	
PTBB2570	6–11	
PTBB2576	6–10	
PTBB2576	6–29	
PTBB2590	6–11	
PTBB2596	6–10	
PTBB2596	6–29	
PTBB3012	2–21	
PTBB3020	2–21	
PTBB3026	2–19	
PTBB3030	2–21	
PTBB3036	2–19	
PTBB3036	2–20	
PTBB3050	2–21	
PTBB3050	6–11	
PTBB3056	2–19	
PTBB3056	6–10	
PTBB3056	6–29	
PTBB3070	2–21	
PTBB3076	2–19	
PTBB3090	2–21	
PTBB3096	2–19	
PTBB4012	2–21	
PTBB4020	2–21	
PTBB4026	2–19	
PTBB4030	2–21	
PTBB4036	2–19	
PTBB4050	2–21	
PTBB4056	2–19	
PTBB4070	2–21	
PTBB4076	2–19	
PTBB4090	2–21	
PTBB4096	2–19	
PTBB5020	6–11	
PTBB5026	6–10	
PTBB5026	6–29	
PTBB5050	2–20	
PTBB5050	6–10	
PTBB5050	6–29	
PTBB5057	6–11	
PTBB5070	6–11	
PTBB5076	6–10	
PTBB5076	6–29	

List of codes

Code	Page	Weight KG
PTBB5090	6–11	
PTBB5096	6–10	
PTBB5096	6–29	
PTBB6012	2–21	
PTBB6020	2–21	
PTBB6026	2–19	
PTBB6030	2–21	
PTBB6036	2–19	
PTBB6050	2–21	
PTBB6050	6–29	
PTBB6056	2–19	
PTBB6056	6–28	
PTBB6070	2–21	
PTBB6070	6–29	
PTBB6076	2–19	
PTBB6076	6–28	
PTBB6090	2–21	
PTBB6090	6–29	
PTBB6096	2–19	
PTBB6096	6–28	
PTBB7070	2–20	
PTBB7520	6–11	
PTBB7526	6–10	
PTBB7526	6–29	
PTBB7530	6–11	
PTBB7536	6–10	
PTBB7536	6–29	
PTBB7550	6–11	
PTBB7556	6–10	
PTBB7556	6–29	
PTBB7570	6–11	
PTBB7576	6–10	
PTBB7576	6–29	
PTBB7590	6–11	
PTBB7596	6–10	
PTBB7596	6–29	
PTBB8012	2–21	
PTBB8020	2–21	
PTBB8026	2–19	
PTBB8030	2–21	
PTBB8036	2–19	
PTBB8050	2–21	
PTBB8050	6–29	
PTBB8056	2–19	
PTBB8056	6–28	
PTBB8070	2–21	
PTBB8070	6–29	
PTBB8076	2–19	
PTBB8076	6–28	
PTBB8090	2–21	
PTBB8090	6–29	
PTBB8096	2–19	
PTBB8096	6–28	
PTBB9090	2–20	
PTBO1012	2–23	
PTBO1030	2–23	
PTBO1030	6–13	
PTBO1050	2–23	
PTBO1050	6–13	
PTBO1050	6–31	
PTBO1070	2–23	
PTBO1070	6–13	
PTBO1070	6–31	
PTBO1090	2–23	
PTBO1090	6–13	
PTBO1090	6–31	
PTBO1212	2–23	
PTBO1230	6–13	
PTBO1231	2–25	
PTBO1250	6–13	
PTBO1251	2–25	
PTBO1270	6–13	
PTBO1271	2–25	
PTBO1290	2–23	
PTBO1290	6–13	
PTBO1291	2–25	
PTBO1431	2–25	
PTBO1451	2–25	
PTBO1471	2–25	
PTBO1491	2–25	
PTBO2520	6–13	
PTBO2530	6–13	
PTBO2550	6–13	
PTBO2570	6–13	
PTBO2590	6–13	
PTBO3012	2–23	
PTBO3020	2–23	
PTBO3030	2–23	
PTBO3050	2–23	
PTBO3050	6–13	
PTBO3070	2–23	
PTBO3090	2–23	
PTBO4012	2–23	
PTBO4020	2–23	
PTBO4030	2–23	
PTBO4050	2–23	
PTBO4070	2–23	
PTBO4090	2–23	
PTBO5020	6–13	
PTBO5050	6–13	
PTBO5052	6–40	
PTBO5055	6–40	
PTBO5070	6–13	
PTBO5072	6–40	
PTBO5075	6–40	
PTBO5090	6–13	
PTBO5092	6–40	
PTBO5095	6–40	
PTBO6012	2–23	
PTBO6020	2–23	
PTBO6030	2–23	
PTBO6050	2–23	
PTBO6050	6–31	
PTBO6070	2–23	
PTBO6070	6–31	
PTBO6090	2–23	
PTBO6090	6–31	
PTBO7520	6–13	
PTBO7530	6–13	
PTBO7550	6–13	
PTBO7570	6–13	
PTBO7590	6–13	
PTBO8012	2–23	
PTBO8020	2–23	
PTBO8030	2–23	
PTBO8050	2–23	
PTBO8050	6–31	
PTBO8070	2–23	
PTBO8070	6–31	
PTBO8090	2–23	
PTBO8090	6–31	
PTBO8251	2–25	
PTBO8271	2–25	
PTBO8291	2–25	
PTBS1001	5–28	
PTBS1020	5–27	
PTBS1030	5–27	
PTBS1050	5–27	
PTBS1052	5–28	
PTBS1052	5–45	
PTBS1052	5–48	
PTBS1070	5–27	
PTBS1072	5–28	
PTBS1072	5–45	
PTBS1072	5–48	
PTBS1090	5–27	
PTBS8001	5–28	
PTBS8020	5–27	
PTBS8030	5–27	
PTBS8050	5–27	
PTBS8052	5–28	
PTBS8052	5–45	
PTBS8052	5–48	
PTBS8070	5–27	
PTBS8072	5–28	
PTBS8072	5–45	
PTBS8072	5–48	
PTBS8090	5–27	
PTBS8091	5–28	
PTBS8091	5–45	
PTBS8091	5–48	
PTHS1052	5–31	
PTHS1072	5–31	
PTHS1092	5–31	
PTHS1292	5–31	
PTHS2030	5–30	
PTHS2050	5–30	
PTHS2052	5–32	
PTHS2070	5–30	
PTHS2072	5–32	
PTHS2090	5–30	

List of codes

Code	Page	Weight KG
PTHS2092	5–32	
PTHS3030	5–30	
PTHS3050	5–30	
PTHS3052	5–32	
PTHS3070	5–30	
PTHS3072	5–32	
PTHS3090	5–30	
PTHS3092	5–32	
PTHS4030	5–29	
PTHS4030	5–30	
PTHS4050	5–29	
PTHS4050	5–30	
PTHS4052	5–31	
PTHS4070	5–29	
PTHS4070	5–30	
PTHS4072	5–31	
PTHS4092	5–31	
PTHS4152	5–32	
PTHS4172	5–32	
PTHS4190	5–30	
PTHS4192	5–32	
PTHS4230	5–30	
PTHS4250	5–30	
PTHS4252	5–32	
PTHS4270	5–30	
PTHS4272	5–32	
PTHS4290	5–30	
PTHS4292	5–32	
PTHS6030	5–29	
PTHS6050	5–29	
PTHS6052	5–31	
PTHS6070	5–29	
PTHS6072	5–31	
PTHS6092	5–31	
PTHS8030	5–29	
PTHS8050	5–29	
PTHS8052	5–31	
PTHS8070	5–29	
PTHS8072	5–31	
PTHS8092	5–31	
PTVB1091	5–28	
PTVB1091	5–45	
PTVB1091	5–48	
PTVS1001	5–28	
PTVS1020	5–27	
PTVS1030	5–27	
PTVS1050	5–27	
PTVS1052	5–28	
PTVS1070	5–27	
PTVS1072	5–28	
PTVS1091	5–28	
PTVS8001	5–28	
PTVS8020	5–27	
PTVS8030	5–27	
PTVS8050	5–27	
PTVS8052	5–28	
PTVS8070	5–27	

Code	Page	Weight KG
PTVS8072	5–28	
PTVS8091	5–28	
PUCM1800	2–14	
PUCM1800	6–40	
PUCM2000	2–14	
PUCM2000	6–40	
PUCS1800	2–15	
PUCS2000	2–15	
PUKI0850	5–34	
PUKI1800	5–23	
PUKI1800	5–27	
PUKI1800	5–34	
PUKI1800	6–27	
PUKI2000	5–23	
PUKI2000	5–27	
PUKI2000	5–34	
PUKI2000	6–27	
PUPM1800	2–13	
PUPM1800	6–8	
PUPM1800	6–27	
PUPM1802	2–13	
PUPM2000	2–13	
PUPM2000	6–8	
PUPM2000	6–27	
PUPM2002	2–13	
PVBE1241	3–110	
PVBE1241	3–118	
PVBE1241	3–118	
PVBE1241	3–110	
PVBT4404	3–110	
PVBT4406	3–110	
PVBT4406	3–110	
PVBT4423	3–110	
PVBT5319	3–110	
PVBT5404	3–110	
PVBT5406	3–110	
PVBT5406	3–110	
PVBT5409	3–110	
PVBT5412	3–110	
PVBT5414	3–110	
PVBT5414	3–110	
PVBT5423	3–110	
PVBT5426	3–110	
PVBT5426	3–110	
PVBT5428	3–110	
PVBT6312	3–110	
PVBT6314	3–110	
PVBT6314	3–110	
PVBT6401	3–110	
PVBT6404	3–110	
PVBT6405	3–110	
PVBX1401	3–109	
PVBX1404	3–109	
PVBX1404	3–109	
PVBX1405	3–109	
PVBX1407	3–109	
PVBX1409	3–109	

Code	Page	Weight KG
PVBX1423	3–109	
PVBX1427	3–109	
PVBX2400	3–109	
PVBX2401	3–109	
PVBX2404	3–109	
PVBX2405	3–109	
PVBX2407	3–109	
PVBX2409	3–109	
PVBX2410	3–109	
PVBX2412	3–109	
PVBX2417	3–109	
PVBX2423	3–109	
PVBX2427	3–109	
PVBX3401	3–109	
PVBX3404	3–109	
PVBX3405	3–109	
PVBX3407	3–109	
PVBX3409	3–109	
PVBX3423	3–109	
PVBX3427	3–109	
PVBX4400	3–110	
PVBX4401	3–109	
PVBX4404	3–110	
PVBX4405	3–110	
PVBX4407	3–110	
PVBX4409	3–110	
PVBX4410	3–110	
PVBX4412	3–110	
PVBX4417	3–110	
PVBX4423	3–110	
PVBX4427	3–110	
PVBX5319	3–110	
PVBX5404	3–110	
PVBX5406	3–110	
PVBX5407	3–110	
PVBX5409	3–110	
PVBX5412	3–110	
PVBX5414	3–110	
PVBX5420	3–110	
PVBX5423	3–110	
PVBX5426	3–110	
PVBX5428	3–110	
PVCE1240	3–113	
PVCE1240	3–113	
PVCE1240	3–118	
PVCE1240	3–118	
PVCE1241	3–113	
PVCE1241	3–113	
PVCE1241	3–118	
PVCE1241	3–118	
PVCT4404	3–113	
PVCT4406	3–113	
PVCT4406	3–113	
PVCT4423	3–113	
PVCT5307	3–113	
PVCT5404	3–113	
PVCT5406	3–113	

List of codes

Code	Page	Weight KG
PVCT5406	3–113	
PVCT5407	3–113	
PVCT5409	3–113	
PVCT5412	3–113	
PVCT5414	3–113	
PVCT5414	3–113	
PVCT5423	3–113	
PVCT5426	3–113	
PVCT5426	3–113	
PVCT5428	3–113	
PVCT5430	3–113	
PVCT5601	3–113	
PVCT5710	3–113	
PVCT5712	3–113	
PVCT6401	3–113	
PVCT6404	3–114	
PVCT6405	3–114	
PVCT6412	3–114	
PVCT6414	3–114	
PVCT6414	3–114	
PVCT7413	3–114	
PVCT7413	3–114	
PVCT7413	3–114	
PVCT7413	3–114	
PVCT7419	3–114	
PVCT7419	3–114	
PVCT7419	3–114	
PVCT7419	3–114	
PVCX1301	3–111	
PVCX1401	3–111	
PVCX1404	3–111	
PVCX1405	3–111	
PVCX1407	3–111	
PVCX1409	3–111	
PVCX1423	3–111	
PVCX1427	3–111	
PVCX1707	3–111	
PVCX2400	3–111	
PVCX2401	3–111	
PVCX2404	3–111	
PVCX2405	3–111	
PVCX2407	3–111	
PVCX2409	3–111	
PVCX2410	3–111	
PVCX2412	3–111	
PVCX2417	3–111	
PVCX2423	3–111	
PVCX2427	3–111	
PVCX2701	3–111	
PVCX2706	3–111	
PVCX2707	3–111	
PVCX3301	3–111	
PVCX3401	3–111	
PVCX3404	3–111	
PVCX3405	3–111	
PVCX3407	3–111	
PVCX3409	3–111	

Code	Page	Weight KG
PVCX3423	3–112	
PVCX3427	3–112	
PVCX3607	3–111	
PVCX3707	3–111	
PVCX4400	3–112	
PVCX4401	3–112	
PVCX4404	3–112	
PVCX4405	3–112	
PVCX4407	3–112	
PVCX4409	3–112	
PVCX4410	3–112	
PVCX4412	3–112	
PVCX4417	3–112	
PVCX4423	3–112	
PVCX4427	3–112	
PVCX4601	3–112	
PVCX4607	3–112	
PVCX4701	3–112	
PVCX4707	3–112	
PVCX5307	3–112	
PVCX5326	3–112	
PVCX5404	3–112	
PVCX5406	3–112	
PVCX5407	3–112	
PVCX5409	3–112	
PVCX5412	3–112	
PVCX5414	3–112	
PVCX5420	3–112	
PVCX5423	3–112	
PVCX5426	3–112	
PVCX5427	3–112	
PVCX5428	3–112	
PVCX5429	3–112	
PVCX5430	3–112	
PVCX5601	3–112	
PVCX5712	3–112	
PVCX6401	3–112	
PVCX6404	3–112	
PVCX6405	3–112	
PVCX6412	3–112	
PVCX6414	3–112	
PVCX6415	3–112	
PVDE1240	3–115	
PVDE1240	3–115	
PVDE1240	3–118	
PVDE1240	3–118	
PVDE1241	3–115	
PVDE1241	3–115	
PVDE1241	3–118	
PVDE1241	3–118	
PVDE1262	3–118	
PVDT5404	3–115	
PVDT5406	3–115	
PVDT5406	3–115	
PVDT5407	3–116	
PVDT5409	3–116	
PVDT5412	3–116	

Code	Page	Weight KG
PVDT5414	3–116	
PVDT5414	3–116	
PVDT5423	3–116	
PVDT5426	3–115	
PVDT5426	3–116	
PVDT5428	3–116	
PVDT5430	3–116	
PVDT5601	3–116	
PVDT5610	3–116	
PVDT5612	3–116	
PVDT5813	3–115	
PVDT6401	3–116	
PVDT6404	3–116	
PVDT6405	3–116	
PVDT6412	3–116	
PVDT6414	3–116	
PVDT6414 n	3–116	
PVDT7413	3–116	
PVDT7413	3–116	
PVDT7413	3–116	
PVDT7413	3–116	
PVDT7419	3–116	
PVDT7419	3–116	
PVDT7419	3–116	
PVDT7419	3–116	
PVDX1807	3–114	
PVDX2801	3–114	
PVDX2807	3–114	
PVDX3707	3–114	
PVDX3807	3–114	
PVDX4701	3–114	
PVDX4707	3–114	
PVDX4801	3–114	
PVDX4807	3–114	
PVDX5404	3–114	
PVDX5406	3–114	
PVDX5407	3–114	
PVDX5409	3–114	
PVDX5412	3–114	
PVDX5414	3–114	
PVDX5420	3–114	
PVDX5423	3–114	
PVDX5426	3–114	
PVDX5427	3–114	
PVDX5428	3–115	
PVDX5429	3–114	
PVDX5430	3–115	
PVDX5601	3–115	
PVDX5610	3–115	
PVDX5612	3–115	
PVDX5701	3–115	
PVDX5813	3–115	
PVDX6401	3–115	
PVDX6404	3–115	
PVDX6405	3–115	
PVDX6412	3–115	
PVDX6414	3–115	

List of codes

Code	Page	Weight KG
PVDX6415	3–115	
PVFE1263	3–117	
PVFE1263	3–118	
PVFT5710	3–117	
PVFT5712	3–117	
PVFT5810	3–117	
PVFT5812	3–117	
PVFT6610	3–117	
PVFT6610	3–117	
PVFT6612	3–117	
PVFT7633	3–117	
PVFT7633	3–117	
PVFX5710	3–117	
PVFX5712	3–117	
PVFX5810	3–117	
PVFX5812	3–117	
PVFX6610	3–117	
PVFX6612	3–117	
PVFX6615	3–117	
PVGT7413	3–113	
PVGT7413	3–113	
PVGT7419	3–112	
PVGT7419	3–113	
PVIT7413	3–115	
PVIT7413	3–115	
PVIT7419	3–115	
PVIT7419	3–115	
PVLT7633	3–117	
PXLP0040	3–122	
PXLP0060	3–122	
PXLP0140	3–122	
PXLP0160	3–122	
PXLP0240	3–122	
PXLP0260	3–122	
PXLP0340	3–122	
PXLP0360	3–122	
TU1000	2–40	
VA7910	4–58	
VA7915	4–58	
VA7930	4–58	
VA7950	4–58	
VA7975	4–58	
VA8300	4–58	
VS4235K	4–63	
VS6285K	4–63	
VZ1400K	4–62	
VZ1401K	4–63	
VZ1550K	4–62	
VZ1850K	4–62	
VZ2000K	4–62	
VZ8501K	4–63	
ZN1041	2–17	

Code	Page	Weight KG

Code	Page	Weight KG

List of codes

Code	Page	Weight KG

Code	Page	Weight KG

Code	Page	Weight KG

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Contact

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Due to possible developments of standards as well as of materials, the characteristics and dimensions specified in this document may only be considered binding after confirmation by ABB SACE.

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