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TECHNICAL CATALOGUE

# System pro E power

## Main distribution switchboards up to 6300A





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# Summary

Main distribution switchboards  
up to 6300A

RANGE PRESENTATION

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# 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

[www.new.abb.com/low-voltage](http://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.



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 (I<sub>cw</sub>) 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 1 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 pre-configured 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 ABB software, 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, Simplicity is Power
  - 3D drawings
  - Structure
  - Kits for internal installation
  - Main documents
  - Technical catalogue
  - Instruction handbook
  - Video manuals
  - Mounting sequence animations
  - Preconfigured 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:



# 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 6

#### Dedicated solution

Assembly kits for CombiLine and InLine.



### 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 7

#### Technical details, certifications and configuration examples

Specifications of the new switchboard, regulatory framework, Italian and international certifications.



### Chapter 3

#### Internal kits

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



### Chapter 8

#### Overall dimensions

Overall dimensions of the switchboards and the relative components available.



### Chapter 4

#### Main distribution systems

Description of the different busbar system combinations that can be created. Selection guides and capacity tables.



### Chapter 9

#### List of codes

Analytical list of codes.



### Chapter 5

#### Segregations

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





## **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		415 V
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	<b>Height (mm)</b>	1800, 2000mm
	<b>Width (mm)</b>	300, 400, 600, 800, 1000, 1250mm
	<b>Depth (mm)</b>	200, 300, 500, 700, 900mm



**Reliable in extreme conditions**

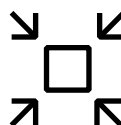
Thanks to the tests performed on the product, the enclosures can stand a rated short-time withstand current (Icw) up to 120 kA and a Maximum rated current up to 6300A. The solution is also provided of an ant seismic certification, thanks to a shock level test up to 0.75 g performed with the installation 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).



**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:

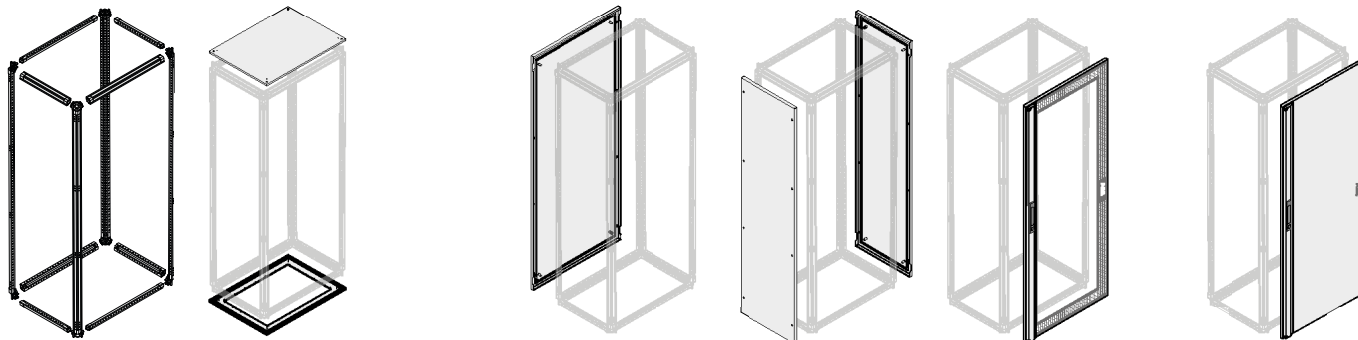
- Up to 2500A (3P) installable in W=400mm
- Up to 4000A (3P) installable in W=600mm
- Up to 4000A (4P) installable in W=800mm
- Up to 6300A (4P) installable in W=1000/1250mm

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.



# Range presentation

## Composition of the series



STRUCTURE			EXTERNAL COVERS											
Functional dimensions			Top/Bottom			Rear panel		Side panels		Door				
			Blind	Open <sup>(1)</sup>	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	
300	300	200	✓	✓	✓	✓	✓	✓				✓	✓	
		300	✓	✓	✓	✓	✓	✓	✓			✓	✓	
		500	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
		700	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
		900	✓	✓	✓	✓	✓	✓	✓	✓			✓	✓
400	400	200	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
		300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		500	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		700	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		900	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
600	600	200	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
		300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		500	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		700	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		900	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
800	800	200	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
		300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		500	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		700	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		900	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1000	1000	200	✓	✓	✓	✓	✓	✓		✓	✓	✓	✓	
		300	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		500	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		700	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	
		900	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
1250	1250	200				✓	✓	✓	✓	✓	✓	✓	✓	
		900	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	

<sup>(1)</sup> Use the dedicated incoming cable flanges to obtain protection class IP65.







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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  $I_n > 4000A$  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 high level 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

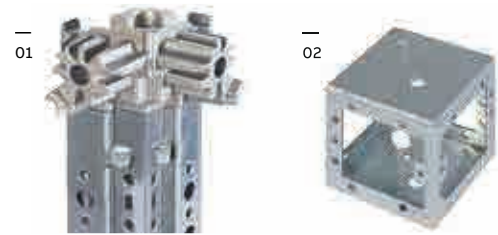
#### Uprights and crosspieces

- 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  $I_n > 4000A$  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.



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.



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)

### Double door W=1250mm

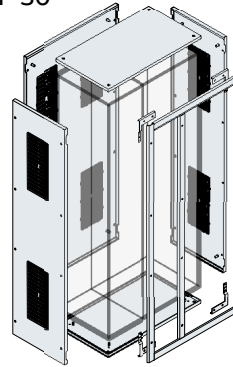
#### IP30/IP40

IP30/IP40 blind top/bottom  
 IP30 side/rear vented panels PPEA.... (without gasket)  
 IP40 side/rear blind panels PPEB.... (without gasket)  
 Blind door PDLB...., or glass door PDLG....  
 (without gasket, 1000mm) and blind door with overlapping PDLB8120/2120

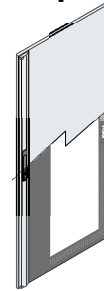
#### IP31/IP41

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

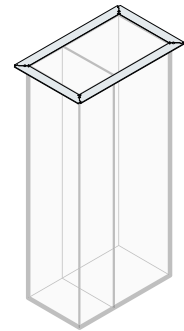
IP 30



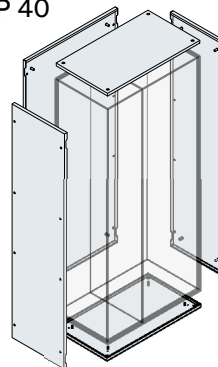
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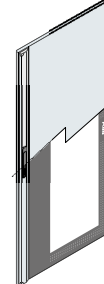
IP 31



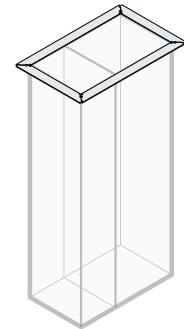
IP 40



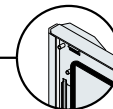
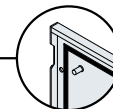
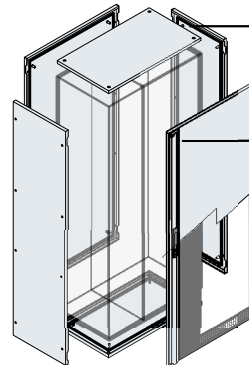
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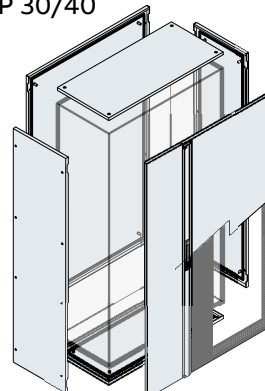
IP 41



IP 65

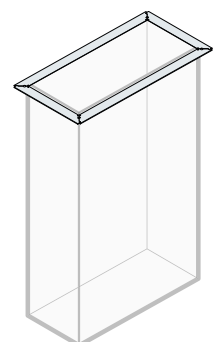


IP 30/40



+

IP 31/41



— 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....

— 02 Back to back structure

— 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....

— 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.

## Examples of use

01

**PUCM.... o PUCS...**

**PCCM....**

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

02

200  
300  
500  
700  
900

03

A	B <sup>1</sup>	C	B <sup>2</sup>
800	200	400	200
1000	200	400	400
	400	400	200
1000	200	600	200

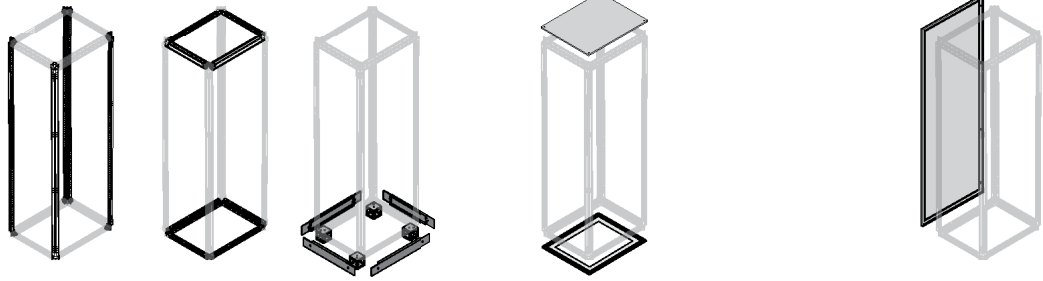
04

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



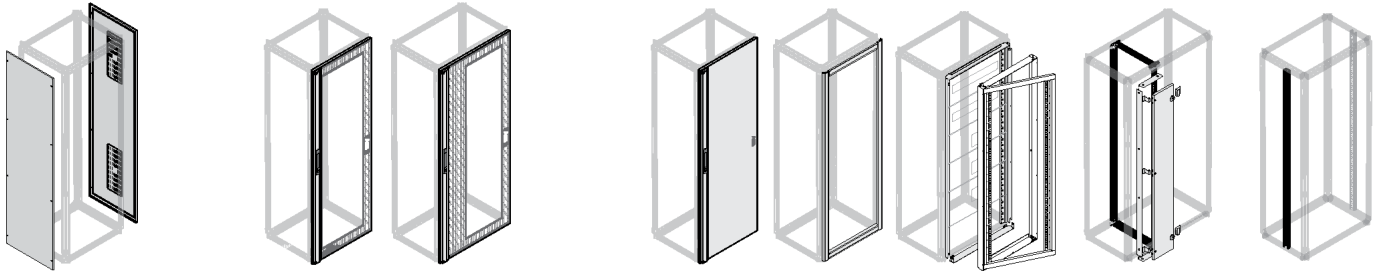
### H=1800mm quick selection guide

Functional dimensions		External * dimensions		FRAME				EXTERNAL COVERS																
Height 1800mm		Height 2013mm		Uprights	Structure crosspieces	H=100mm plinth		Top/bottom panels			Front/side panels													
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	Plinth flanges		Top/Bottom		Bottom	Rear panel										
									Front/Rear	Sides	Blind	Open (2)	Without plinth	Blind	Vented									
									Front/Rear	Sides	IP65	IP30(1) IP40(1)	IP65	IP40	IP65	IP40(1)	IP30(1)							
300	200	416	316	PUPM1802	PCFM0300	PCFM0200	PCFM0300	PPAM0100	PPFM1030	PPFM1020	PTBB3026	PTBB3020	PTBO3020	PBWP3020	PPEB1836	PPEB1830	PPEA1830							
	300		416															PCFM0300	PCFM0300	PPFM1030	PTBB3036	PTBB3030	PTBO3030	PBWP3030
	500		616															PCFM0500	PCFM0500	PPFM1050	PTBB3056	PTBB3050	PTBO3050	PBWP3050
	700		816															PCFM0700	PCFM0700	PPFM1070	PTBB3076	PTBB3070	PTBO3070	PBWP3070
	900		1016															PCFM0900	PCFM0900	PPFM1090	PTBB3096	PTBB3090	PTBO3090	PBWP3090
1250	1366	PCFM1250	PCFM1250	PPAM0100 PPI M0100	PPFM1250	PTBB3012	PTBO3012	PBWP3012																
400	200	516	316	PUPM1802	PCFM0400	PCFM0200	PCFM0400	PPAM0100	PPFM1040	PPFM1020	PTBB4026	PTBB4020	PTBO4020	PBWP4020	PPEB1846	PPEB1840	PPEA1840							
	300		416															PCFM0300	PCFM0300	PPFM1030	PTBB4036	PTBB4030	PTBO4030	PBWP4030
	500		616															PCFM0500	PCFM0500	PPFM1050	PTBB4056	PTBB4050	PTBO4050	PBWP4050
	700		816															PCFM0700	PCFM0700	PPFM1070	PTBB4076	PTBB4070	PTBO4070	PBWP4070
	900		1016															PCFM0900	PCFM0900	PPFM1090	PTBB4096	PTBB4090	PTBO4090	PBWP4090
1250	1366	PCFM1250	PCFM1250	PPAM0100 PPI M0100	PPFM1250	PTBO4012	PTBO4012	PBWP4012																
600	200	716	316	PUPM1802	PCFM0600	PCFM0200	PCFM0600	PPAM0100	PPFM1060	PPFM1020	PTBB6026	PTBB6020	PTBO6020	PBWP6020	PPEB1866	PPEB1860	PPEA1860							
	300		416															PCFM0300	PCFM0300	PPFM1030	PTBB6036	PTBB6030	PTBO6030	PBWP6030
	500		616															PCFM0500	PCFM0500	PPFM1050	PTBB6056	PTBB6050	PTBO6050	PBWP6050
	700		816															PCFM0700	PCFM0700	PPFM1070	PTBB6076	PTBB6070	PTBO6070	PBWP6070
	900		1016															PCFM0900	PCFM0900	PPFM1090	PTBB6096	PTBB6090	PTBO6090	PBWP6090
1250	1366	PCFM1250	PCFM1250	PPAM0100 PPI M0100	PPFM1250	PTBB6012	PTBO6012	PBWP6012																
800	200	916	316	PUPM1802	PCFM0800	PCFM0200	PCFM0800	PPAM0100	PPFM1080	PPFM1020	PTBB8026	PTBB8020	PTBO8020	PBWP8020	PPEB1886	PPEB1880	PPEA1880							
	300		416															PCFM0300	PCFM0300	PPFM1030	PTBB8036	PTBB8030	PTBO8030	PBWP8030
	500		616															PCFM0500	PCFM0500	PPFM1050	PTBB8056	PTBB8050	PTBO8050	PBWP8050
	700		816															PCFM0700	PCFM0700	PPFM1070	PTBB8076	PTBB8070	PTBO8070	PBWP8070
	900		1016															PCFM0900	PCFM0900	PPFM1090	PTBB8096	PTBB8090	PTBO8090	PBWP8090
1250	1366	PCFM1250	PCFM1250	PPAM0100 PPI M0100	PPFM1250	PTBB8012	PTBO8012	PBWP8012																
1000	200	1116	316	PUPM1802	PCFM1000	PCFM0200	PCFM1000	PPAM0100	PPFM1010	PPFM1020	PTBB1026	PTBB1020	PTBO1020	PBWP1020	PPEB1816	PPEB1810	PPEA1810							
	300		416															PCFM0300	PCFM0300	PPFM1030	PTBB1036	PTBB1030	PTBO1030	PBWP1030
	500		616															PCFM0500	PCFM0500	PPFM1050	PTBB1056	PTBB1050	PTBO1050	PBWP1050
	700		816															PCFM0700	PCFM0700	PPFM1070	PTBB1076	PTBB1070	PTBO1070	PBWP1070
	900		1016															PCFM0900	PCFM0900	PPFM1090	PTBB1096	PTBB1090	PTBO1090	PBWP1090
1250	1366	PCFM1250	PCFM1250	PPAM0100 PPI M0100	PPFM1250	PTBB1012	PTBO1012	PBWP1012																
1250	200	1366	316	PUPM1802	PCFM1250	PCFM0200	PCFM1250	PPAM0100 PPI M0100	PPFM1250	PPFM1020	PTBB1220	PTBB1220	PTBO1220	PBWP1220	PPRE1820(3) PPLB1820(4)	PPRA1820(3) PPLA1820(4)								
	300		416															PCFM0300	PCFM0300	PPFM1030	PTBB1230	PTBB1230	PTBO1230	PBWP1230
	900		1016															PCFM0900	PCFM0900	PPFM1090	PTBB1290	PTBB1290	PTBO1290	PBWP1290
	1250		1366															PCFM1250	PCFM1250	PPFM1250	PTBB1212	PTBB1212	PTBO1212	PBWP1212

\* The external dimensions include the H=100mm plinth and the panels.  
 \*\* This item code must be used for application with 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.





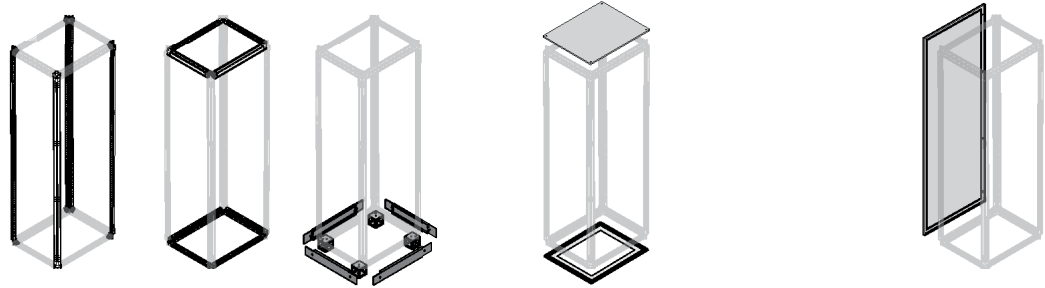
Side panel			Glass door 12/24/36 mod. DIN		Glass door 12/24/36 mod. DIN + internal cable compartment		Blind door 12/24/36 mod. DIN		Finishing profile IP30		Frame for panels		Internal cable compartment <sup>(8)</sup>							
Blind			Vented																	
IP65	IP40 <sup>(4)</sup>	IP30 <sup>(4)</sup>	IP65	IP30 <sup>(4)</sup> IP40 <sup>(4)</sup>	Cable comp. W=200 IP65	Cable comp. W=400 IP65	Cable comp. W=200 IP40 <sup>(4)</sup>	Cable comp. W=400 IP40 <sup>(4)</sup>	IP65	IP30 <sup>(4)</sup> IP40 <sup>(4)</sup>	Vertic.	Horizz.	Fixed	Special fixed	Swing	Uprights	Crosspieces	Internal door W= 200	W= 400	Intermediate upright
PPEB1826	PPEB1820																PCCM0200			
PPEB1836	PPEB1830	PPEA1830							PDLB1836	PDLB1830							PCCM0300			
PPEB1856	PPEB1850	PPEA1850										PPFH0300					PCCM0500			
PPEB1876	PPEB1870	PPEA1870															PCCM0700			
PPEB1896	PPEB1890	PPEA1890															PCCM0900			
	PPRB1821+ PPLB1821	PPEA1821+ PPLB1821																		
PPEB1826	PPEB1820		PDLG1846	PDLG1840					PDLB1846	PDLB1840			PPFH0400	PPPF1840	PFFA1840	PPFS1840		PCCM0200		
PPEB1836	PPEB1830	PPEA1830															PCCM0300			
PPEB1856	PPEB1850	PPEA1850															PCCM0500			
PPEB1876	PPEB1870	PPEA1870															PCCM0700			
PPEB1896	PPEB1890	PPEA1890															PCCM0900			
	PPRB1821+ PPLB1821	PPEA1821+ PPLB1821																		
PPEB1826	PPEB1820		PDLG1866	PDLG1860	PDLG1842		PDLG8420		PDLB1866	PDLB1860			PPFH0600	PPPF1860	PFFA1860	PPFS1860		PCCM0200		
PPEB1836	PPEB1830	PPEA1830															PCCM0300			
PPEB1856	PPEB1850	PPEA1850															PCCM0500			
PPEB1876	PPEB1870	PPEA1870															PCCM0700			
PPEB1896	PPEB1890	PPEA1890															PCCM0900			
	PPRB1821+ PPLB1821	PPEA1821+ PPLB1821									PPFV1800 PPCV1800 <sup>(7)</sup>					PUCM1800 PUCS1800		PDCB1820	PDCB1840	PUKI1800 <sup>(9)</sup>
PPEB1826	PPEB1820		PDLG1886	PDLG1880	PDLG1862	PDLG1844	PDLG8620	PDLG8440	PDLB1886	PDLB1880			PPFH0800	PPPF1880	PFFA1880	PPFS1880		PCCM0200		
PPEB1836	PPEB1830	PPEA1830															PCCM0300			
PPEB1856	PPEB1850	PPEA1850															PCCM0500			
PPEB1876	PPEB1870	PPEA1870															PCCM0700			
PPEB1896	PPEB1890	PPEA1890															PCCM0900			
	PPRB1821+ PPLB1821	PPEA1821+ PPLB1821																		
	PPEB1820																			
PPEB1836	PPEB1830	PPEA1830											PPFH1000	PPPF1810	PFFA1810	PPFS1810		PCCM0200		
PPEB1856	PPEB1850	PPEA1850															PCCM0300			
PPEB1876	PPEB1870	PPEA1870			2PDLG1882	PDLG1864	PDLG8820	PDLG8640	PDLB1816	PDLB1810							PCCM0500			
PPEB1896	PPEB1890	PPEA1890															PCCM0700			
	PPRB1821+ PPLB1821	PPEA1821+ PPLB1821															PCCM0900			
	PPEB1820																			
	PPEB1830			PDLB1820 <sup>(5)</sup> PDLG8500 <sup>(6)</sup>														PCCM0200		
	PPEB1890	PPEA1890								PDLB1820 <sup>(5)</sup> PDLB8500 <sup>(6)</sup>			PPFH1200	PPPF1812	PFFA1825			PCCM0300		
	PPRB1821+ PPLB1821	PPEA1821+ PPLB1821																PCCM0900		

<sup>(8)</sup> PCCM... 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....

<sup>(9)</sup> 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

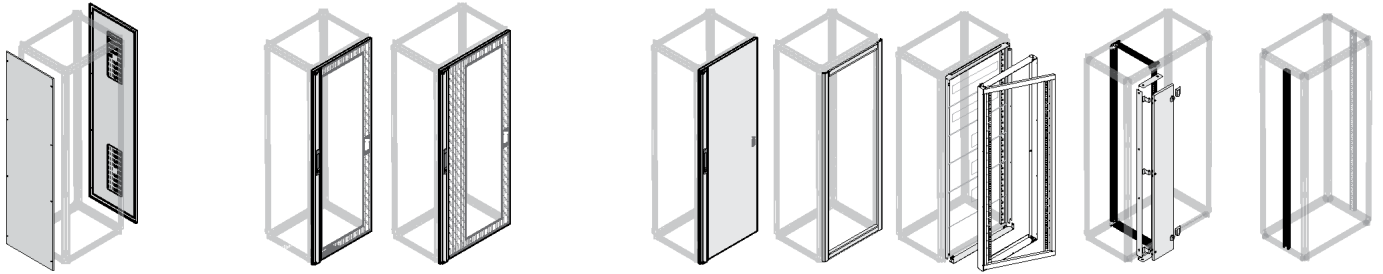


H=2000mm quick selection guide

Functional dimensions				Esternal * dimensions				FRAME				EXTERNAL COVERS											
Height 2000mm				Height 2213mm				Uprights		Structure crosspieces		H=100mm plinth		Top/bottom panels				Front/side panels					
								Galvanized sheet metal		Galvanized sheet metal		Plinth flanges		Top/Bottom		Bottom		Rear panel					
								Front/ Rear		Angle pieces		Front/ Rear		Blind		Open <sup>(2)</sup>		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 <sup>(3)</sup> IP40 <sup>(3)</sup>	IP65	IP40	IP65	IP40 <sup>(3)</sup>	IP30 <sup>(3)</sup>						
300	200	416	316	PUPM2002	PCFM0300	PCFM0200	PCFM0300	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	PPFM1250	PTBB1250	PTBB3012	PTBO3012	PBWP3012
400	200	516	316	PUPM2002	PCFM0400	PCFM0200	PCFM0300	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	PPFM1250	PTBB4012	PTBB4012	PTBO4012	PBWP4012
600	200	716	316	PUPM2002	PCFM0600	PCFM0200	PCFM0300	PPAM0100	PPFM1060	PPFM1020	PTBB6026	PTBB6020	PTBO6020	PBWP6020	PPEB2066	PPEB2060	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	PPFM1250	PTBB6012	PTBB6012	PTBO6012	PBWP6012
800	200	916	316	PUPM2002	PCFM0800	PCFM0200	PCFM0300	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	PPFM1250	PTBB8012	PTBB8012	PTBO8012	PBWP8012
1000	200	1116	316	PUPM2002	PCFM1000	PCFM0200	PCFM0300	PPAM0100	PPFM1010	PPFM1020	PTBB1026	PTBB1020	PTBO1020	PBWP1020	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	PPFM1250	PTBB1012	PTBB1012	PTBO1012	PBWP1012
1250	200	1366	316	PUPM2002	PCFM1250	PCFM0200	PCFM0300	PPIM0100	PPFM1250	PPFM1020	PTBB1220	PTBB1220	PTBO1220	PBWP1220	PPEB2020 <sup>(3)</sup>	PPEB2020 <sup>(4)</sup>	PPEA2020 <sup>(3)</sup>						
	300		416															PCFM0300	PPFM1030	PTBB1230	PTBB1230	PTBO1230	PBWP1230
	900		1016															PCFM0900	PPFM1090	PTBB1290	PTBB1290	PTBO1290	PBWP1290
	1250		1366															PCFM1250	PPFM1250	PTBB1212	PTBB1212	PTBO1212	PBWP1212

\* The external dimensions include the H=100mm plinth and the panels.  
 \*\* This item code must be used for application with 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.  
<sup>(1)</sup> In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit, page 2/22.

<sup>(2)</sup> Use the dedicated incoming cable flanges to obtain protection class IP65.  
 Cables flanges page 2/25.  
<sup>(3)</sup> Right rear panel for structures W=1250mm.  
<sup>(4)</sup> Left rear panel for structures W=1250mm.  
<sup>(5)</sup> Door with overlapping for the double door version.  
<sup>(6)</sup> Door with handle for the double door version.  
<sup>(7)</sup> 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 <sup>(8)</sup>						
Blind			Vented																	
IP65	IP30 <sup>(1)</sup> IP40 <sup>(1)</sup>	IP30 <sup>(1)</sup>	IP65	IP30 <sup>(1)</sup> IP40 <sup>(1)</sup>	Cable comp. W=200 IP65	Cable comp. W=400 IP65	Cable comp. W=200 IP40 <sup>(1)</sup>	Cable comp. W=400 IP40 <sup>(1)</sup>	IP65	IP30 <sup>(1)</sup> IP40 <sup>(1)</sup>	Vertic.	Horizz.	Fixed	Special fixed	Swing	Uprights	Crosspieces	Internal door W= 200	Internal door W= 400	Intermediate upright
PPEB2026	PPEB2020																PCCM0200			
PPEB2036	PPEB2030	PPEA2030															PCCM0300			
PPEB2056	PPEB2050	PPEA2050							PDLB2036				PPFH0300				PCCM0500			
PPEB2076	PPEB2070	PPEA2070								PDLB2030							PCCM0700			
PPEB2096	PPEB2090	PPEA2090															PCCM0900			
	PPRB2021+ PPLB2021	PPEA2021+ PPLB2021																		
PPEB2026	PPEB2020		PDLG2046	PDLG2040					PDLB2046				PPFH0400		PPFS2040		PCCM0200			
PPEB2036	PPEB2030	PPEA2030								PDLB2040							PCCM0300			
PPEB2056	PPEB2050	PPEA2050											PPFF2040				PCCM0500			
PPEB2076	PPEB2070	PPEA2070												PFFA1840			PCCM0700			
PPEB2096	PPEB2090	PPEA2090															PCCM0900			
	PPRB2021+ PPLB2021	PPEA2021+ PPLB2021																		
PPEB2026	PPEB2020		PDLG2066	PDLG2060	PDLG2042		PDLG2420		PDLB2066				PPFH0600		PPFS2060		PCCM0200		PDCB2020	
PPEB2036	PPEB2030	PPEA2030								PDLB2060							PCCM0300		PDCB2040	
PPEB2056	PPEB2050	PPEA2050											PPFF2060				PCCM0500			
PPEB2076	PPEB2070	PPEA2070												PFFA2060			PCCM0700			
PPEB2096	PPEB2090	PPEA2090															PCCM0900			
	PPRB2021+ PPLB2021	PPEA2021+ PPLB2021																		PUKI2000 <sup>(9)</sup>
PPEB2026	PPEB2020		PDLG2086	PDLG2080	PDLG2062	PDLG2044	PDLG2620	PDLG8440	PDLB2086				PPFH0800		PPFS2080		PCCM0200			
PPEB2036	PPEB2030	PPEA2030								PDLB2080							PCCM0300			
PPEB2056	PPEB2050	PPEA2050											PPFH0800				PCCM0500			
PPEB2076	PPEB2070	PPEA2070											PPFF2080				PCCM0700			
PPEB2096	PPEB2090	PPEA2090												PFFA2080			PCCM0900			
	PPRB2021+ PPLB2021	PPEA2021+ PPLB2021																		
PPEB2036	PPEB2020																PCCM0200			
PPEB2056	PPEB2030	PPEA2030															PCCM0300			
PPEB2076	PPEB2050	PPEA2050	PDLG2016	PDLG2010	PDLG2082	PDLG2064	PDLG2820	PDLG8640	PDLB2016				PPFH1000				PCCM0500			
PPEB2096	PPEB2070	PPEA2070											PPFF2010				PCCM0700			
	PPEB2090	PPEA2090								PDLB2010				PFFA2010			PCCM0900			
	PPRB2021+ PPLB2021	PPEA2021+ PPLB2021																		
	PPEB2020																PCCM0200			
	PPEB2030																PCCM0300			
	PPEB2090	PPEA2090															PCCM0900			
	PPRB2021+ PPLB2021	PPEA2021+ PPLB2021																		

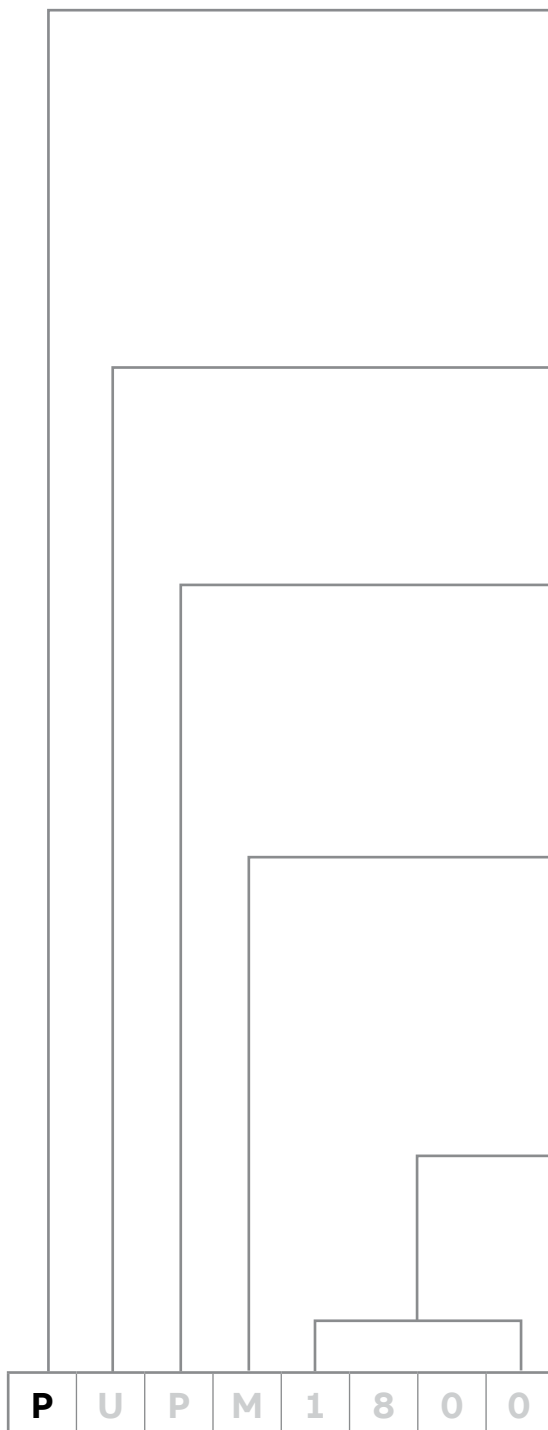
<sup>(8)</sup> PCCM... to be ordered when there is an intermediate upright for mounting kit (PUKI...) or an intermediate crosspiece for installing busbars horizontally under the top or on the bottom of the (PCKI...) structure or when vertical side partitions are installed. Not compatible with IP40 PBWP....  
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....

<sup>(9)</sup> 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

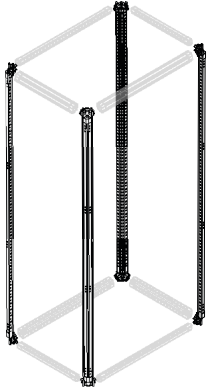
M = Metal/Galvanized sheel metal  
 S = Stainless steel  
 B = Blind  
 O = Open  
 P = Plinth  
 A = Vented  
 G = Glass  
 H = Horizontal  
 V = Vertical  
 T = Top

### 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  $I_n \leq 4000A$ .

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 $I_n > 4000A$

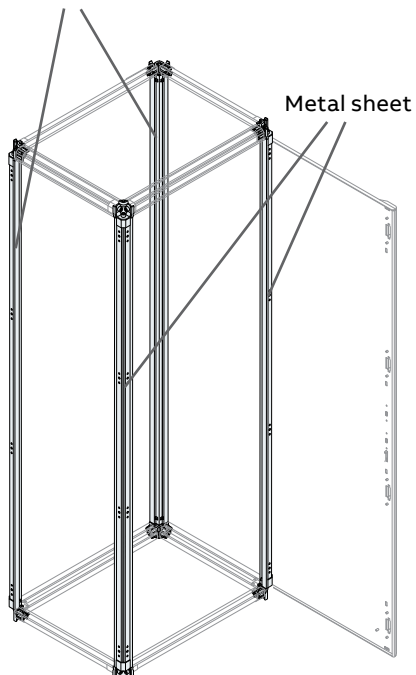
The uprights include 8 already assembled 3-way joints, 8 already assembled axial screws and 16 loose axial screws. For applications with  $I_n > 4000A$ .

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

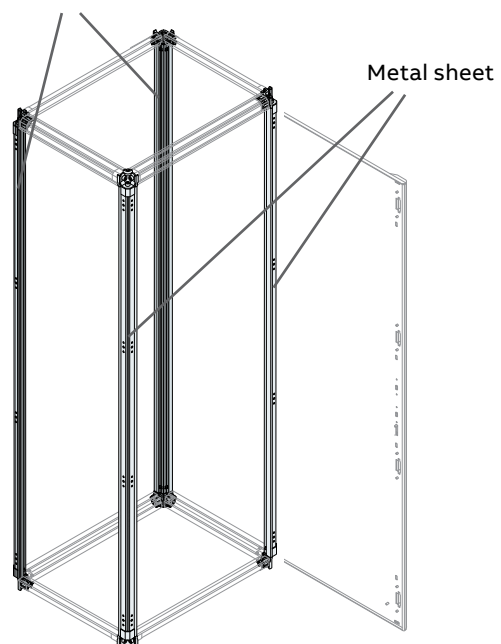
### Galvanized sheet metal $I_n \leq 4000A$

PUPM1800  
PUPM2000  
Metal sheet



### Uprights for enclosure $I_n > 4000A$

PUPM1802  
PUPM2002  
Stainless steel  
(AISI304)



## Structure

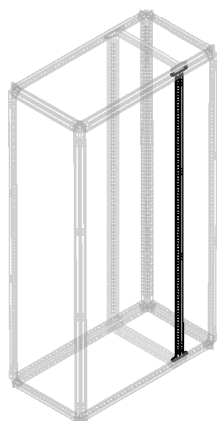
### Order codes - Frame



#### Structure crosspieces

Depth and width crosspieces for structures.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
<b>Width crosspieces galvanized sheet metal</b>					
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
<b>Depth crosspieces galvanized sheet metal</b>					
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
<b>Width crosspieces stainless steel</b>					
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
<b>Depth crosspieces stainless steel</b>					
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



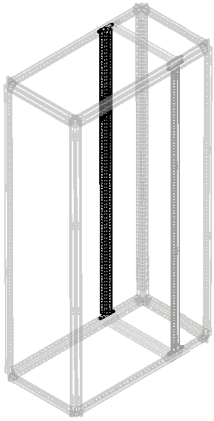
#### Uprights for internal cable compartment – Galvanized sheet metal

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

Description	Dimensions		Type	Order code	Pkg/ No. pcs
	H (mm)				
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

## Structure

Order codes - Frame



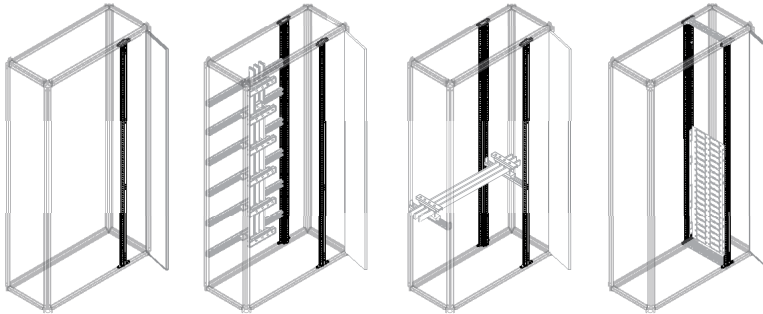
### Uprights for internal cable compartment – Stainless steel

Upright formed by a closed profile in AISI 304 stainless steel for internal cable compartment with fixing brackets. For applications with  $I_n > 4000A$ , 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	1STQ007749A0000	1/1
No.1 stainless steel upright for cable compartment	2000	PUCS2000	1STQ007750A0000	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  $I_n > 4000A$  the rear internal cable compartment upright has to be in stainless steel.

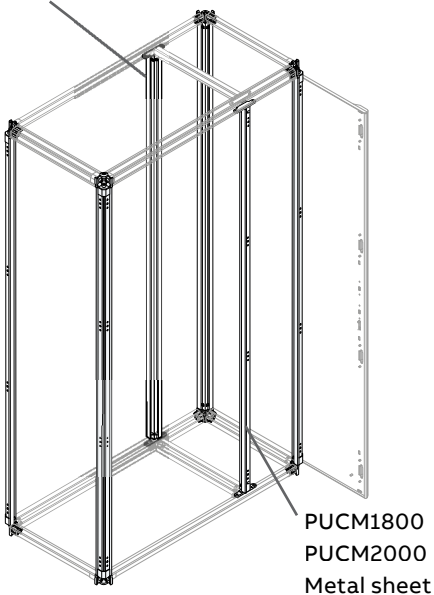
### Applications examples



Examples of use

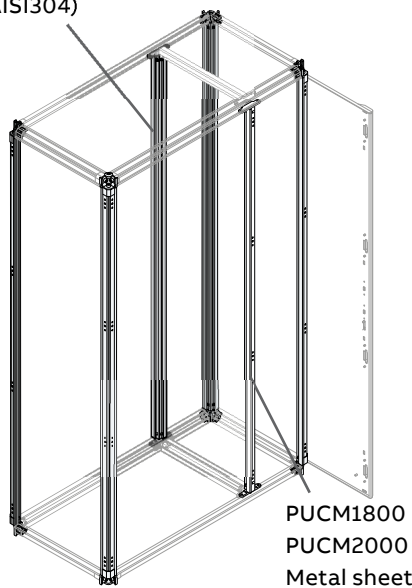
### Uprights in galvanized sheet metal for enclosure $I_n \leq 4000A$

PUCM1800  
PUCM2000  
Metal sheet

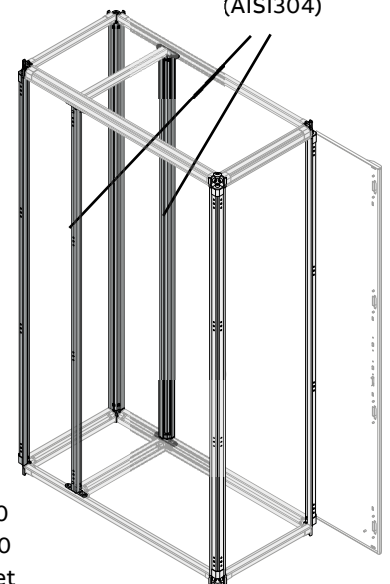


### Uprights for enclosure $I_n > 4000A$

PUCS1800  
PUCS2000  
Stainless steel  
(AISI304)

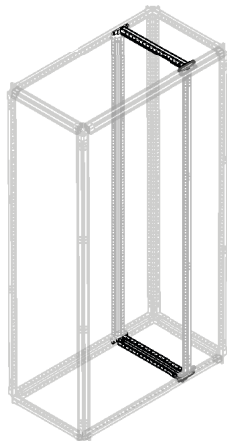


PUCS1800  
PUCS2000  
Stainless steel  
(AISI304)



## Structure

### Order codes - Frame



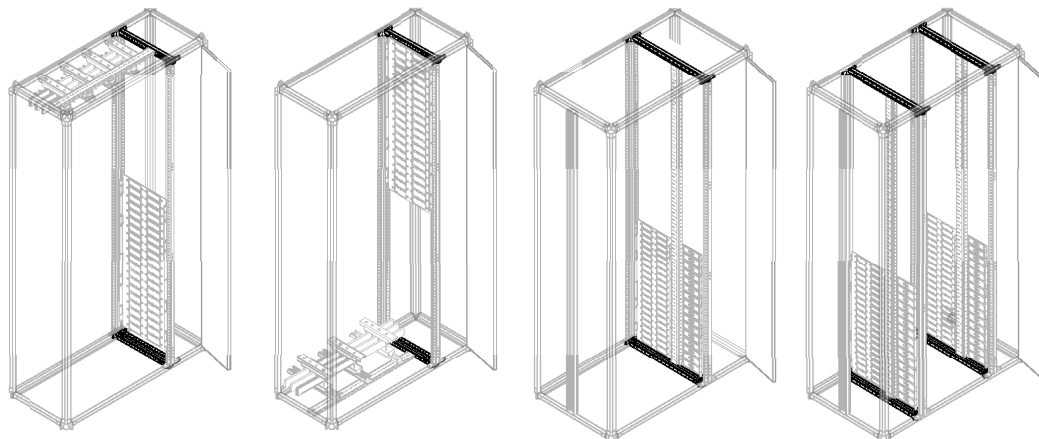
#### Crosspieces for internal cable compartment – Galvanized sheet metal

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

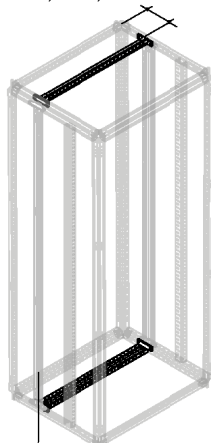
Description	Dimensions D (mm)	Type	Order code	Pkg/ No. pcs
No.2 galvanized sheet cable cont. crosspieces	200	PCCM0200	1STQ007744A0000	1/2
No.2 galvanized sheet cable cont. crosspieces	300	PCCM0300	1STQ007745A0000	1/2
No.2 galvanized sheet cable cont. crosspieces	500	PCCM0500	1STQ007746A0000	1/2
No.2 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 structures. To be assembled with 2 intermediate uprights for internal cable container PUCM.... o PUCS....

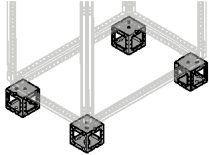
Description	Dimensions W (mm)	Type	Order code	Pkg/ No. pcs
No.2 galvanized sheet crosspieces for structures	300	PCCM0300	1STQ007745A0000	1/2
No.2 galvanized sheet crosspieces for structures	400	PCCM0400	1STQ001337B0000	1/2
No.2 galvanized sheet crosspieces for structures	600	PCCM0600	1STQ001337B0000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



## Structure

### Order codes - Frame

PPAM0100



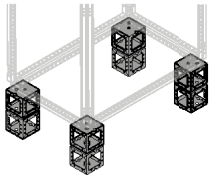
#### Universal angle pieces for plinths in galvanized sheet metal

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.

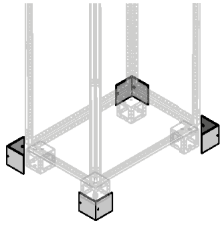
PPAM0200



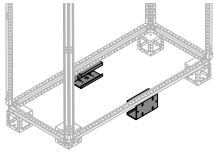
#### "L" covers for plinth angle-pieces

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



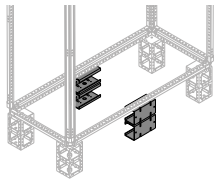
#### Intermediate plinth

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..

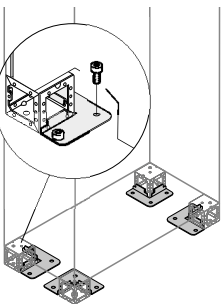
PPIM0200



#### Brackets for fixing to the floor

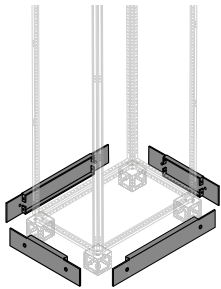
The kit allows the floor or on container fixing of the structure by means of M12 screws.

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



## Structure

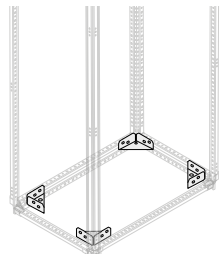
### Order codes - Frame



#### Plinth flanges

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

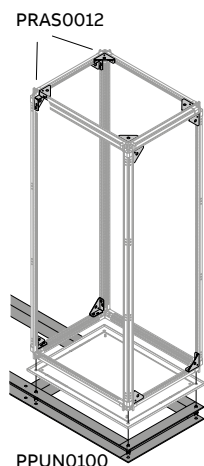
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
<b>Front/rear plinth flanges</b>					
No.2 plinth flanges	300		PPFM1030	1STQ007050A0000	1/2
No.2 plinth flanges	400		PPFM1040	1STQ007051A0000	1/2
No.2 plinth flanges	600		PPFM1060	1STQ007053A0000	1/2
No.2 plinth flanges	800		PPFM1080	1STQ007055A0000	1/2
No.2 plinth flanges	1000		PPFM1010	1STQ007056A0000	1/2
No.4 plinth flanges	1250		PPFM1250	1STQ007057A0000	1/4
<b>Side plinth flanges</b>					
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



#### 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

\* Mandatory for structure  $D \leq 300$  in order to reach a standard resistance capacity up to 0.69g

\* Order one PRAS0012 kit for each column weighing  $\geq 1000$  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).

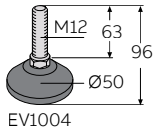
Unit of measurement when ordering: METER .

Maximum length 4.2m (the length refers to the external measurement of the column/bank).

For details, see chapter 7 - Handling.

## Structure

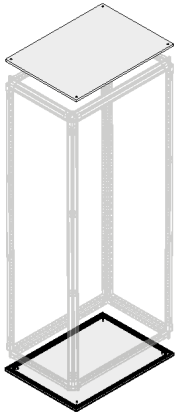
### Order codes - External covers



#### 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



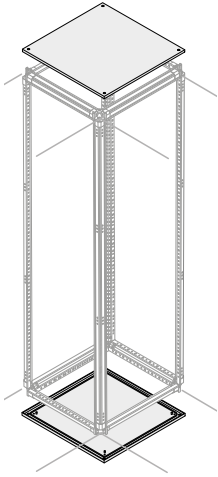
#### Blind Top/Bottom IP65 – Pickled sheet steel

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)		Type	Order code	Pkg/ No. pcs
	W	D			
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

## Structure

### Order codes - External covers



#### Top/bottom IP65 for corner structures

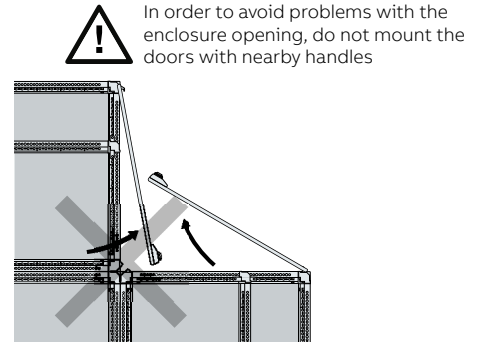
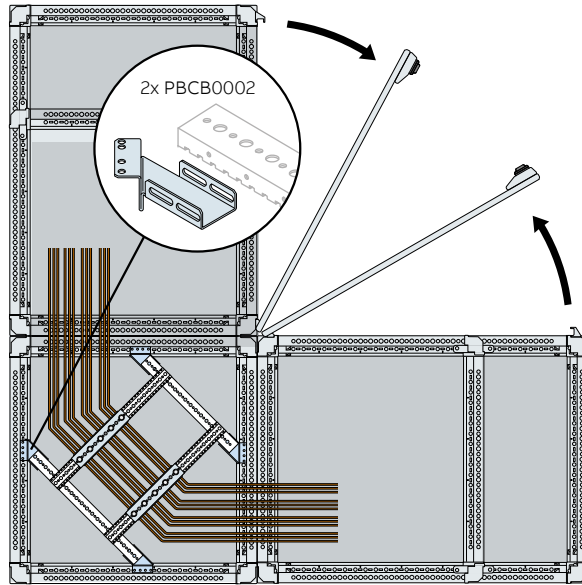
Pickled sheet steel with IP65 gasket. The article comprises one single component that can be used as either a top or bottom. In order to purchase both the top and the bottom, please order two quantities of the same code or two different top/bottom codes according to the desired design of the structure.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

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
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).

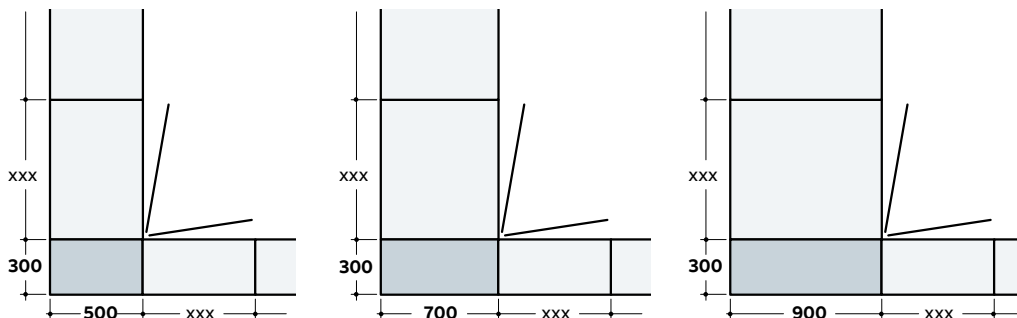
In case of horizontal busbars, the passage is permitted only on the back or under the top by using no.2 brackets PBCB0002 and the universal crosspieces PCRM2013 to be cut accordingly.



#### Additional applications

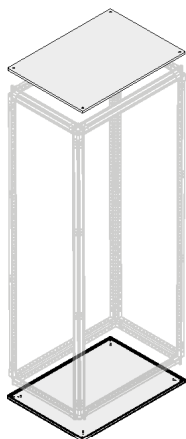
Using structures 300 mm in width with the relative top/bottom and external cover components, corner configurations like those in the examples below can be created with the following characteristics:

- IPX1 top sealing profiles are not 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.



## 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.

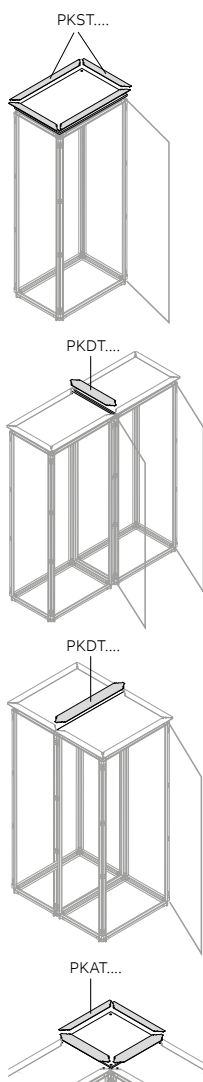
Description	Dimensions (mm)		Type		Pkg/ No. pcs
	W	D	Type	Type	
Blind Top/Bottom IP30/IP40	300	200	PTBB3020	1STQ007107A0000	1/1
Blind Top/Bottom IP30/IP40	300	300	PTBB3030	1STQ007108A0000	1/1
Blind Top/Bottom IP30/IP40	300	500	PTBB3050	1STQ007109A0000	1/1
Blind Top/Bottom IP30/IP40	300	700	PTBB3070	1STQ007110A0000	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	500	PTBB1250	1STQ001316B0000	1/1
Blind Top/Bottom IP30/IP40	1250	700	PTBB1270	1STQ001317B0000	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....

## Structure

### Order codes - External covers



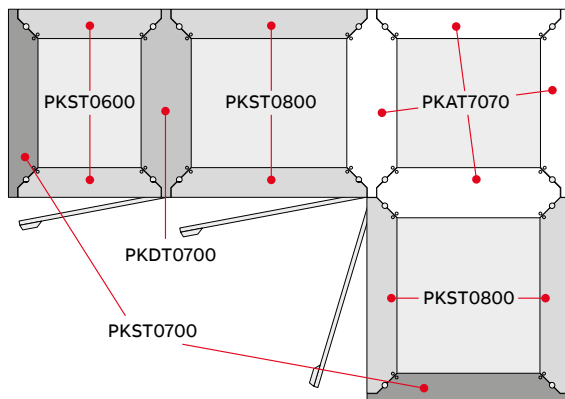
#### Top sealing kit IPX1

Profiles for IP31/IP41 for top.

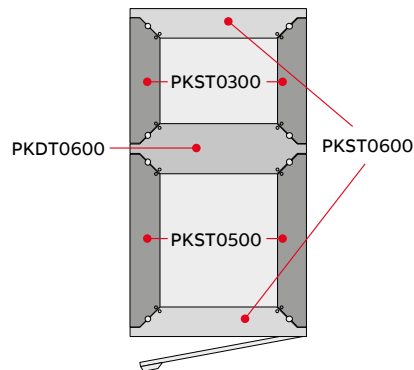
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
N.2 roof profiles for single column	200		PKST0200	1STQ001905B0000	1/2
N.2 roof profiles for single column	300		PKST0301	1STQ001935B0000	1/2
N.2 roof profiles for single column	500		PKST0501	1STQ001936B0000	1/2
N.2 roof profiles for single 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	1STQ001916B0000	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

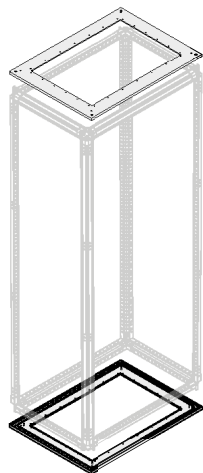


Rear side by side structure



## Structure

### Order codes - External covers

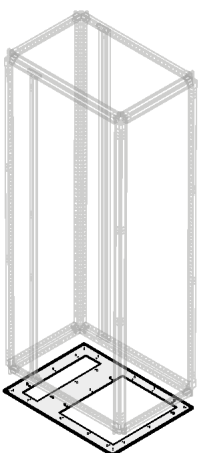


#### Open Top/Bottom

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)		Type	Order code	Pkg/ No. pcs
	W	D			
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

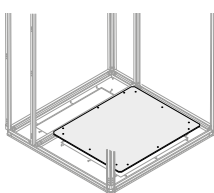
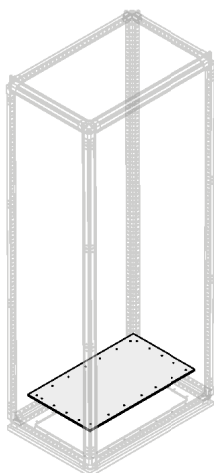
(structure D = 900mm + internal rear cable compartment D = 350mm)

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.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
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

## Structure

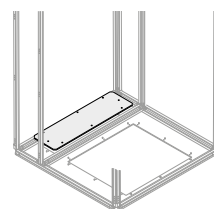
### Order codes - External covers



#### 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)		Type	Order code	Pkg/No. pcs
	W	D			
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

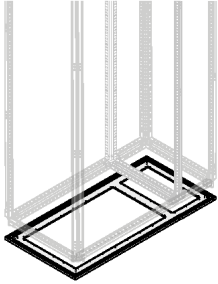
Fixed incoming cable flange in sheet metal to use in conjunction with the open bottom. With internal cable compartment crosspieces it is necessary to mount the fixed flange first.

Description	Dimensions (mm)		Type	Order code	Pkg/No. pcs
	W	D			
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



## 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)		Type	Order code	Pkg/ No. pcs
	W	D			
<b>Open top/bottom IP65</b>					
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
<b>Blind fixed flange IP65 for internal cable container</b>					
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:

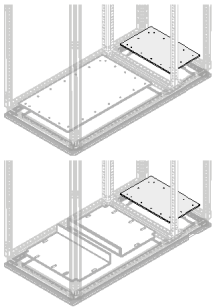
Base IP65 W 800mm D 500mm with 200mm W internal cable container.

Order:

n°1 PTBO8251 open bottom W 800mm (600 + 200 ) D 500mm

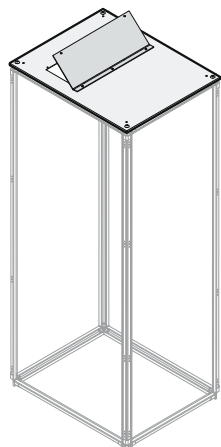
n°1 PFCF2051 blind fixed flange for internal cable container W 200mm D 500mm

n°1 PFCF6050 blind fixed flange for equipment compartment W 600mm D 500mm



## 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.

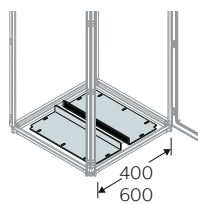
Comply with the following characteristics to create an internal arc fault resistant switchboard:

- 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
- Up to 4000A

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
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

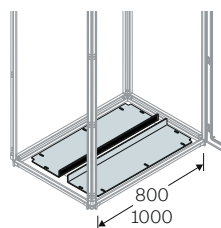
Not compatible with structures with rear internal cable compartment.

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.



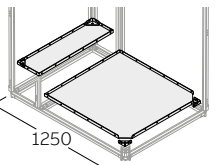
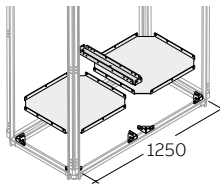
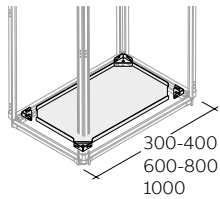
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
No.2 sliding flanges	400	500	PFCS4050	1STQ007699A0000	1/2
No.2 sliding flanges	400	700	PFCS4070	1STQ007700A0000	1/2
No.2 sliding flanges	400	900	PFCS4090	1STQ007701A0000	1/2
No.2 sliding flanges	600	500	PFCS6050	1STQ007705A0000	1/2
No.2 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

## Structure

### Order codes - External covers



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



#### Internal bottom IP40

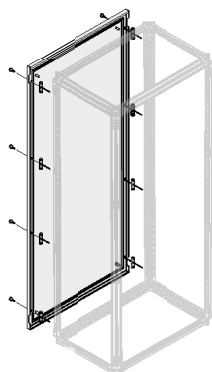
Internal galvanized steel bottom with special brackets kit included (special brackets kit available also as spare part with the code PBRB0004). In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit PKST...and PKDT..., page 2/22.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	PBWP1012	1STQ005594B0000	1/2
Internal bottom	1250	900	PBWP1290	1STQ007203A0000	1/1
Internal bottom	1250	1250 <sup>(1)</sup>	PBWP1212	1STQ005595B0000	1/2

<sup>(1)</sup> No. 2 pieces

## Structure

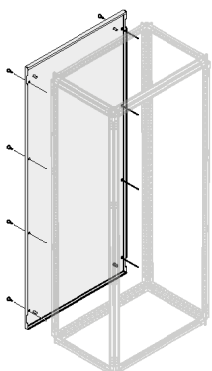
### Order codes - External covers



#### External blind rear panel IP65

Pickled sheet steel with gasket and plugs IP65.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
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)		Type	Order code	Pkg/ No. pcs	
	H	W				
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

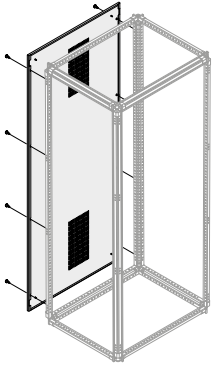
##### IP40 rear blind panels

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

#### Realization of the different IP protection class

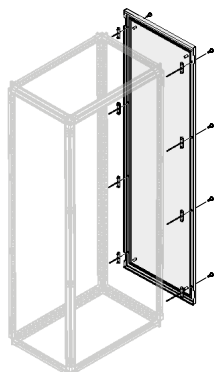
##### IP31

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....



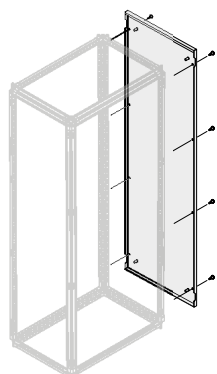
#### External blind side panel IP65

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

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	D			
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

## Structure

### Order codes - External covers



#### External blind side panel IP40

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)		Type	Order code	Pkg/ No. pcs
	H	D			
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

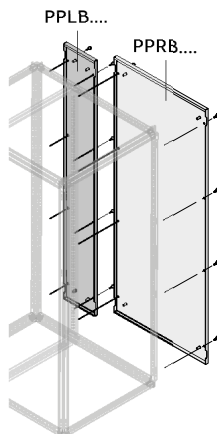
##### IP41

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)		Type	Order code	Pkg/ No. pcs
	H	D			
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

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....

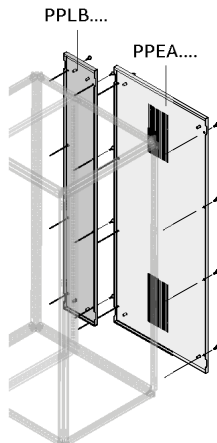
##### IP41

IP30/IP40 blind top/bottom

##### IP40 side blind panels

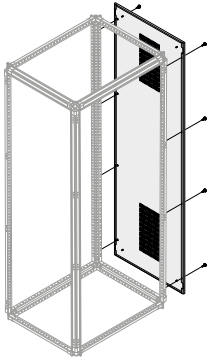
Blind door or glass door without gasket

IPX1 top sealing kit PKST.... / PKDT....



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

#### Realization of the different IP protection class

##### IP31

IP30/IP40 blind top/bottom

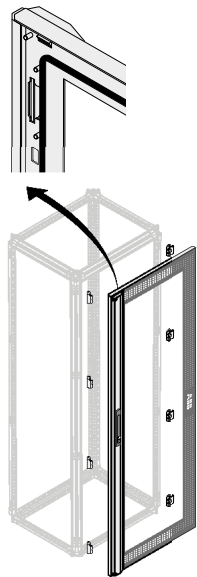
##### IP30 side vented panels

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

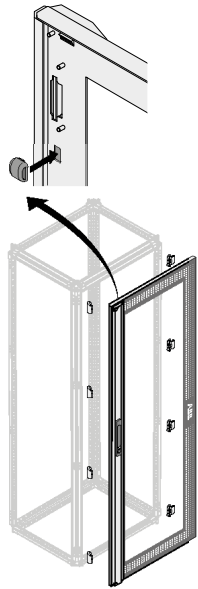
Pickled sheet steel with gasket. Opens through 135° (single column). Complete with 4 hinges to be screwed onto the uprights, 4 door closing brackets with cover and handle. Handle and hinges provided (not pre-assembled for complete reversibility). Doors can be mounted both on the front and on the back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

Description	No. DIN modules	Dimensions (mm)		Cable compartment W	Type	Order code	Pkg/ No. pcs
		H	W				
<b>Glass door</b>							
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
<b>Glass door for structures with internal cable compartment</b>							
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



## Structure

### Order codes - External covers



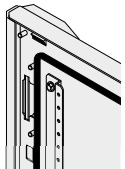
#### Glass door without gasket

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.

Description	No. DIN modules	Dimensions (mm)		Cable compartment W	Type	Order code	Pkg/ No. pcs
		H	W				
<b>Glass door</b>							
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
<b>Glass door for structures with internal cable compartment</b>							
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

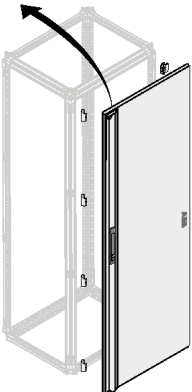
#### Realization of the different IP protection class

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



#### Blind door IP65

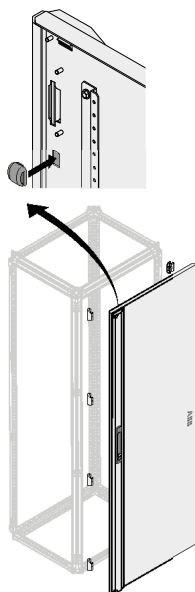
Pickled sheet steel with gasket. Opens through 135° (single column). Complete with 4 hinges to be screwed onto the uprights, 4 door closing brackets with cover and handle. Handle and hinges provided (not pre-assembled for complete reversibility). Doors can be mounted both on the front and on the back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



Description	No. DIN modules	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
		H	W			
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

## 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

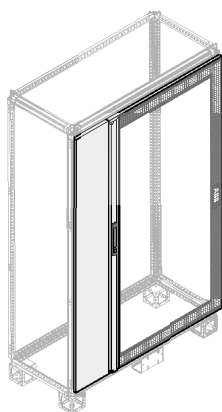
Description	No. DIN modules	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
		H	W			
Blind door cable compartment	-	1800	300	PDLB1830	1STQ007361A0000	1/1
Blind door	12	1800	400	PDLB1840	1STQ007362A0000	1/1
Blind door	24	1800	600	PDLB1860	1STQ007363A0000	1/1
Blind door	36	1800	800	PDLB1880	1STQ007364A0000	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
<b>Blind door without gasket</b>	<b>Blind door without gasket</b>
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.



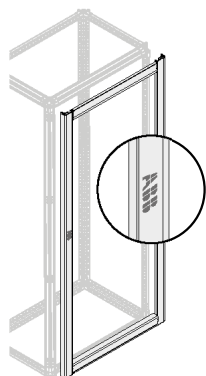
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
<b>Door with overlapping</b>					
Blind door with overlapping	1800	250	PDLB8120	1STQ007366A0000	1/1
Blind door with overlapping	2000	250	PDLB2120	1STQ007373A0000	1/1
<b>Door with handle</b>					
Glass door with handle	1800	1000	PDLG8500	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
<b>Blind door without gasket</b>	<b>Blind door without gasket</b>
IPX1 top sealing kit PKST... /PKDT....	IPX1 top sealing kit PKST... / PKDT....

## 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)		Type	Order code	Pkg/ No. pcs
	H	W			
<b>Finishing profiles vertical structure and external cable compartment</b>					
No.2 vertical profiles IP30	1800		PPFV1800	1STQ008059A0000	1/2
No.2 vertical profiles IP30	2000		PPFV2000	1STQ008060A0000	1/2
<b>Finishing profile vertical internal cable compartment</b>					
No.1 profile vertical IP30	1800		PPCV1800	1STQ009294A0000	1/1
No.1 profile vertical IP30	2000		PPCV2000	1STQ009295A0000	1/1
<b>Finishing profiles horizontal structure and external cable compartment</b>					
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

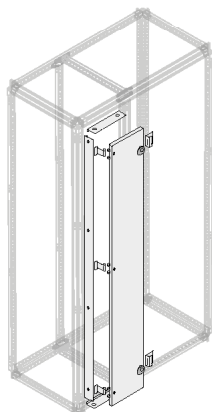
##### IP31

IP30/IP40 blind top/bottom

IP30 side/rear vented panels

##### IP30 vertical finishing profiles

IPX1 top sealing kit PKST... /PKDT....



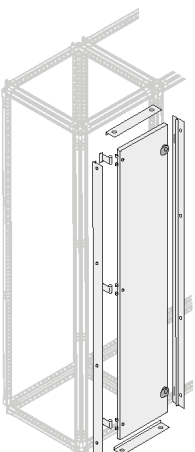
#### Internal door for internal cable compartment

Internal door in pickled steel sheet for cable compartment IP30.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	D			
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

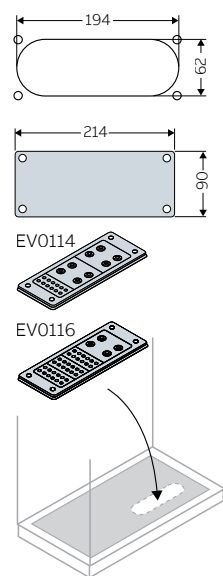
Internal door in pickled steel sheet for cable compartment IP30.



Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	D			
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

## Structure

### Order codes - Structure finishing components



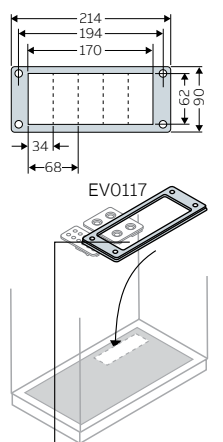
#### Pre-configured plastic cable gland flanges IP65

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)		Type	Order code	Pkg/ No. pcs
	W	D			
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

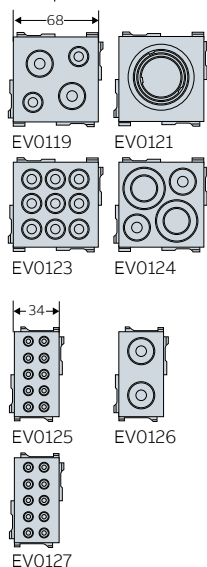


#### Flanges with adaptable plastic cable gland inserts IP65

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.

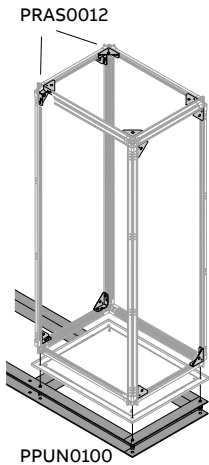
RAL 7035 grey colour; operating temperature from -20 °C to +125 °C, IP65 protection class in accordance with EN 60529 specifications.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
<b>Adaptable modular flanges</b>					
N. 1 modular flange adaptable to compose with single inserts	214	90	EV0117	1STQ006547A0000	1/1
<b>Inserts for adaptable flanges</b>					
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



## Structure

### Order codes - Structure finishing components



#### Anti-seismic kit

Anti-seismic is an important thematic which is properly 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 1 g (ZPA zero period acceleration)	Zone 4	7.5	10

\* The references to the intensity scales are indicative.

#### Order codes for resistance capacity up to 1 g (ZPA zero period acceleration)

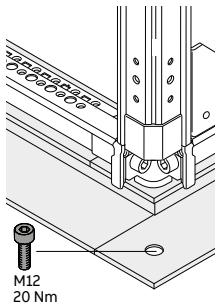
Description	Type	Order code	Pkg/ No. pcs
Antiseismic plinth H=100mm joining structure*	PPUN0100	1STQ002089B0000	1/1
No.12 antiseismic reinforcement kits**	PRAS0012	1STQ002088B0000	1/12

\* 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. Mandatory for structure  $D \leq 300$  in order to reach a standard resistance capacity up to 0.69g.



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

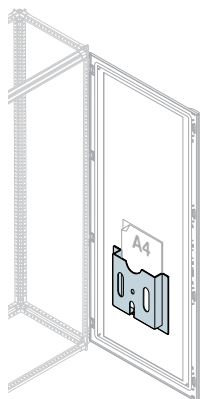
- No collapse of the structure.
- Operation of the switchboard after the earthquake.
- Maintaining of the mechanical characteristics, IP and IK.

#### 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 strengthens the structure. If you have a cable feed, expect an additional length in the cables.
- For details, see Chapter 7 - anti-seismic withstand

## Structure

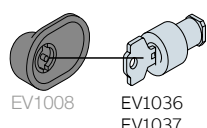
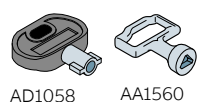
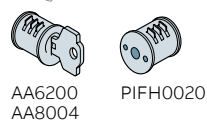
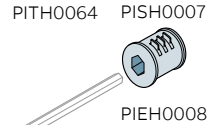
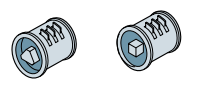
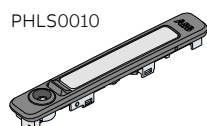
### Order codes - Structure finishing components



#### 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



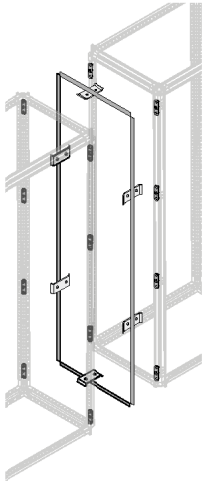
#### Closing systems

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
<b>Standard handles</b>			
Standard lever handle (spare)	PHLS0010	1STQ008126A0000	1/1
Padlockable lever handle (spare; padlock diameter up to 8mm)	PHLL0020	1STQ008128A0000	1/1
<b>Inserts and keys for standard handle</b>			
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
Plastic key for double tab insert	AD1058	1STQ009134A0000	1/1
Key for triangular insert	AA1560	1STQ009138A0000	1/1
FIAT key	AA1570	1STQ009137A0000	1/1
<b>Box for closing internal cable compartment</b>			
Box with double tab insert in plastic with key for inner door (Nema TYPE 12)	EV1008	1STQ000956A0000	1/1
<b>Inserts and keys for closing box for internal cable compartment</b>			
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

## Structure

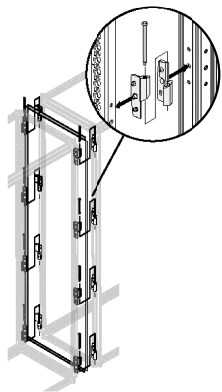
### Order codes - Structure finishing components



#### 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.

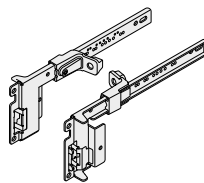
Description	Type	Order code	Pkg/ No. pcs
Kit for joining structures side by side / back to back	PSBS0065	1STQ008113A0000	1/8
Kit for joining corner structures	PSCS0579	1STQ009185A0000	1/12



#### Kit external for joining structures

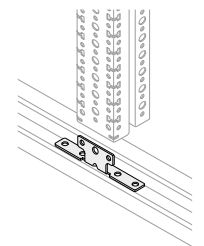
The joining kit includes 16 joining plates, 8 pins and a gasket to maintain the protection degree and allow switchboards to be joined together both at the sides and rear. Use of the kit is recommended since it makes it easier to join switchboards after transport in segregated units because the assembly 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



#### Brackets for circuit-breaker kit (spare parts)

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

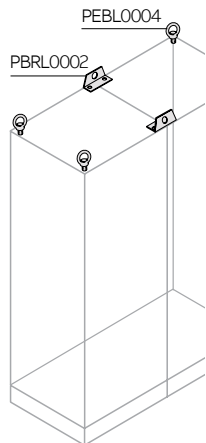


#### Brackets for intermediate upright (spare parts)

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

## Structure

Order codes - accessories and spare parts



### Eyebolts for lifting

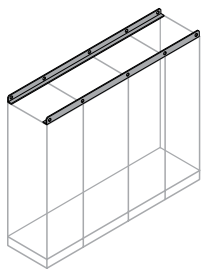
Allow wired switchboards to be lifted. Made of steel treated with a white passivated galvanizing process.

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

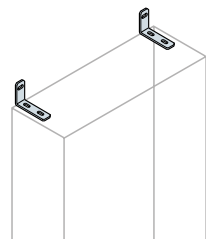
The beam has holes for lifting equipment. Length up to 6 meters.  
RAL 7012 grey colour with textured finish.

Description	Type	Order code	Pack./ No. pcs
Pair of lifting beams for side-by-side cabinet	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



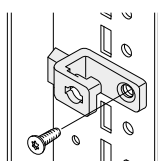
## Structure

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. pcs
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



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## **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.

—  
01 Quick click-in fixing system with ¼ turn screws.

—  
02 Kits for Emax 2 air circuit-breakers

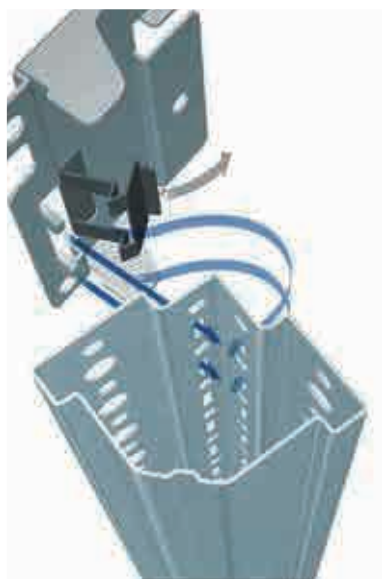
They match perfectly with the new uprights and crosspieces with double fixing levels and are available for air and moulded-case circuit-breakers, switch-disconnectors, modular circuit-breakers and internal segregation partitions.

**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.



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 circuit-breakers; pre-cut holes included for 4P. Holes for front terminals, with flexible insulated connections that proceed behind the plate for fixed circuit breakers (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 circuit-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.

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		D=300mm		D=500mm	
			HORIZ.	VERT.	HORIZ.	VERT.	HORIZ.	
<b>System pro-M</b>				✓		✓		
<b>Tmax XT1</b>	front terminals with side exit	fixed	✓	✓	✓	✓	✓	
		plug-in			✓	✓	✓	
		fixed+diff	✓	✓	✓	✓	✓	
	rear/front terminals with rear exit	fixed	✓	✓		✓	✓	
		plug-in				✓	✓	
<b>Tmax XT2</b>	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				✓	✓	
<b>Tmax XT3</b>	front terminals with side exit	fixed	✓	✓	✓	✓	✓	
		plug-in			✓	✓	✓	
		fixed+diff	✓	✓	✓	✓	✓	
	rear/front terminals with rear exit	fixed				✓	✓	
		plug-in				✓	✓	
<b>Tmax XT4</b>	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				✓	✓	
<b>Tmax T4</b>	front terminals with side exit	fixed	✓	✓	✓	✓	✓	
		fixed+diff	✓	✓	✓	✓	✓	
	rear/front terminals with rear exit	fixed				✓	✓	
		fixed+diff				✓	✓	
<b>Tmax XT5 Tmax T5 400/630A</b>	front terminals with side exit	fixed	✓	✓	✓	✓	✓	
		plug-in			✓	✓	✓	
		plug-in+diff			✓	✓	✓	
		withdrawable			✓	✓	✓	
		fixed+diff	✓	✓	✓	✓	✓	
	rear/front terminals with rear exit	fixed				✓ <sup>(3)</sup>	✓	
		plug-in				✓ <sup>(3)</sup>	✓	
		plug-in+diff				✓ <sup>(3)</sup>	✓	
		withdrawable				✓ <sup>(3)</sup>	✓	
<b>Tmax XT6 Tmax T6</b>	front terminals with side exit	fixed	✓	✓	✓	✓	✓	
		withdrawable <sup>(2)</sup>			✓	✓	✓	
	rear/front terminals with rear exit <sup>(1)</sup>	fixed	✓	✓		✓	✓	
		withdrawable				✓	✓	
<b>Tmax XT7 Tmax T7</b>	front terminals with side exit	fixed			✓	✓	✓	
		withdrawable				✓	✓	
	rear/front terminals with rear exit	fixed			✓		✓	
	withdrawable							

<sup>(1)</sup> Front terminals with rear exit, only Form 1. <sup>(2)</sup> Only Form 1.

<sup>(3)</sup> Front terminals with rear exit.



## Internal kits

### Quick selection guides

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

			Type of structure/installation			
			Form 1, Form 2b switchboard			
			D=300mm		D=500mm	
			HORIZ.	VERT.	HORIZ.	VERT.
<b>Emax air circuit-breakers</b>						
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				

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

#### Recommended installation solutions for accessorized apparatus

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

<sup>(1)</sup> Front terminals with rear exit, only Form 1. <sup>(2)</sup> Only Form 1.





## Internal kits

### Quick selection guides

#### Recommended installation solutions for accessorized apparatus

			Type of structure/installation			
			Form 1, Form 2b switchboard			
			D=300mm		D=500mm	
			HORIZ.	VERT.	HORIZ.	VERT.
<b>Tmax interlocked, interlocked motor-operated moulded-case circuit-breakers</b>						
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 <sup>(2)</sup>	✓		✓	
	rear/front terminals with rear exit <sup>(1)</sup>	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			✓	
<b>Emax air circuit-breakers (minimum depth of structures with insulators not spaced)</b>						
Emax E1.2	front and rear terminals	fixed	✓	✓	✓	✓
	rear terminals	withdrawable			✓	✓
Emax E2.2	rear terminals	fixed				✓ <sup>(4)</sup>
		withdrawable				
Emax E4.2	rear terminals	fixed				
		withdrawable				
Emax E6.2	rear terminals	fixed				
		withdrawable				

<sup>(1)</sup> Front terminals with rear exit, only Form 1. <sup>(2)</sup> Only Form 1.

#### Recommended installation solutions for apparatus

			Type of structure/installation			
			Form 1, Form 2b switchboard			
			D=300mm (with extension kit)		D=500mm	
			Horiz.	VERT.	Horiz.	VERT.
<b>Switch disconnectors with rotating handle deferred</b>						
OT-O7EV	OT200-OT250-OT160EV	fixed	✓	✓	✓	✓
	OT315-OT400	fixed	✓	✓	✓	✓
	OT630-OT800	fixed	✓	✓	✓	✓
	OT1000-OT1250-OT1600	fixed			✓	✓



# Internal kits

## Examples of use

### Segregation Form 1

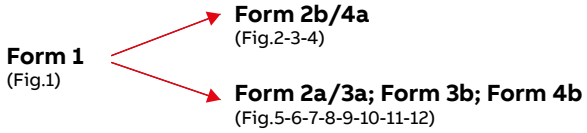
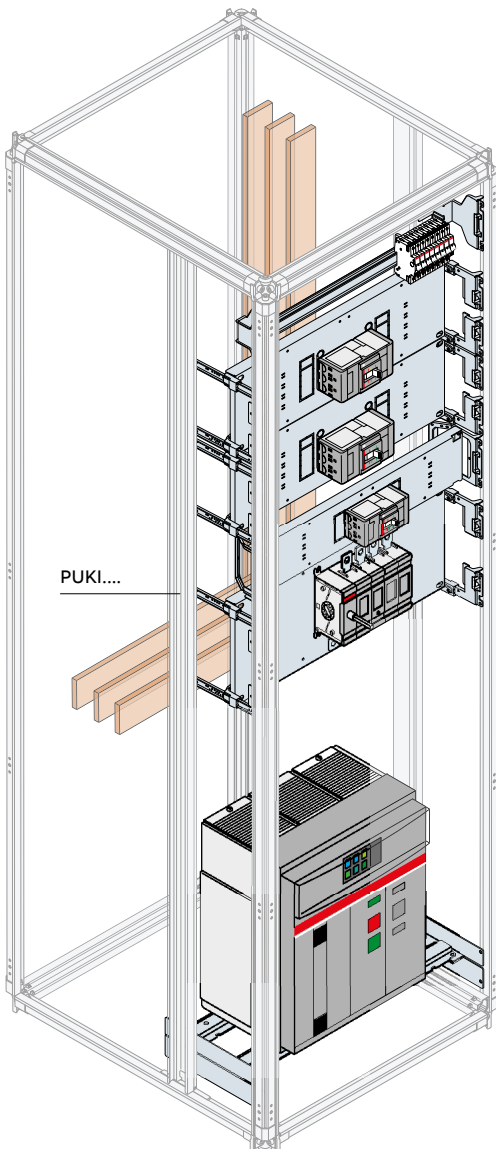


Fig.1

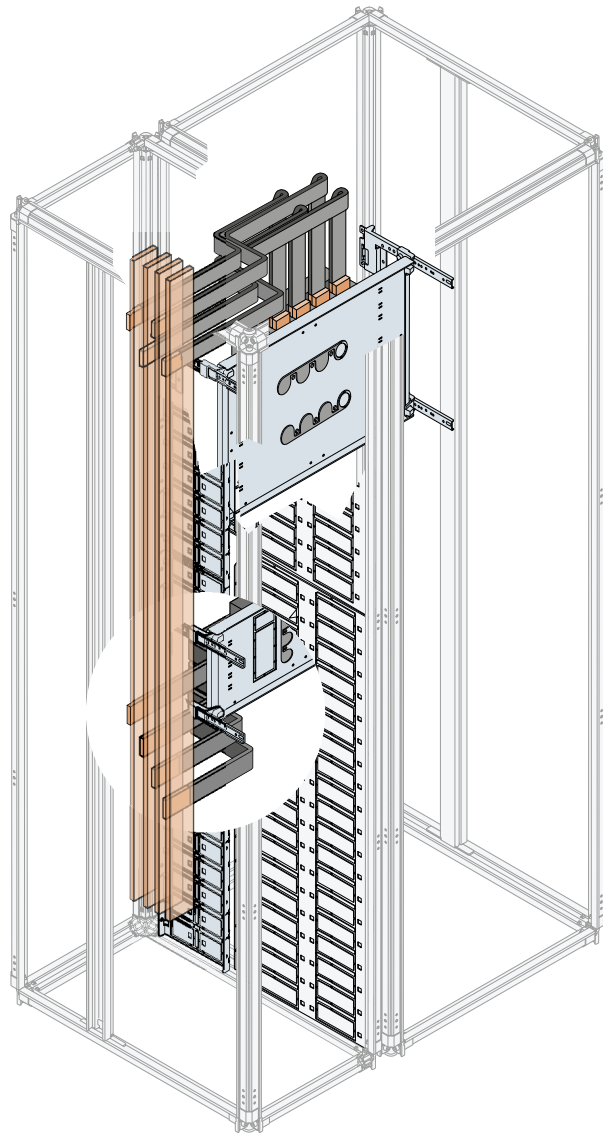


### Segregation Form 2b/4a

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

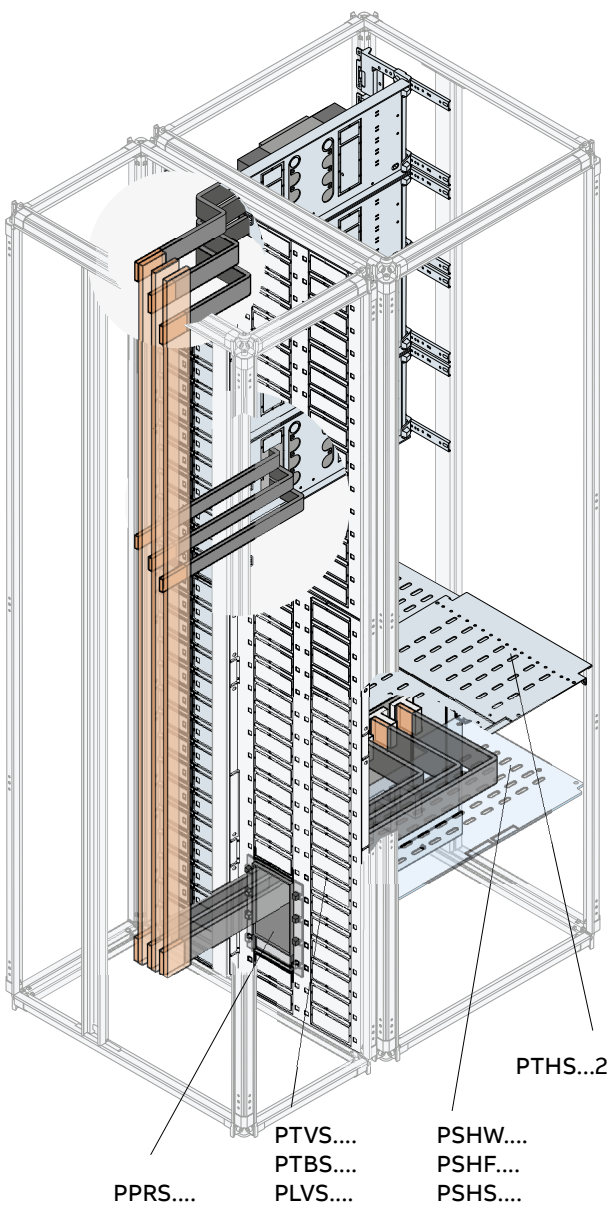
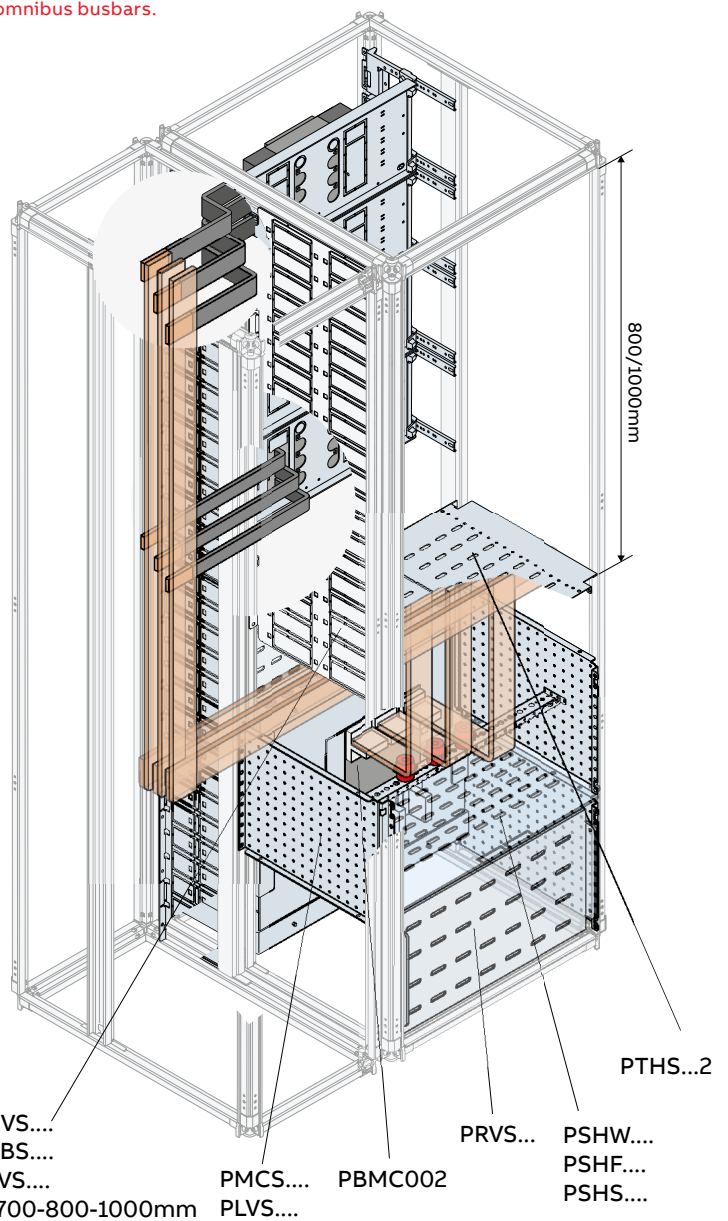


Fig.4

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

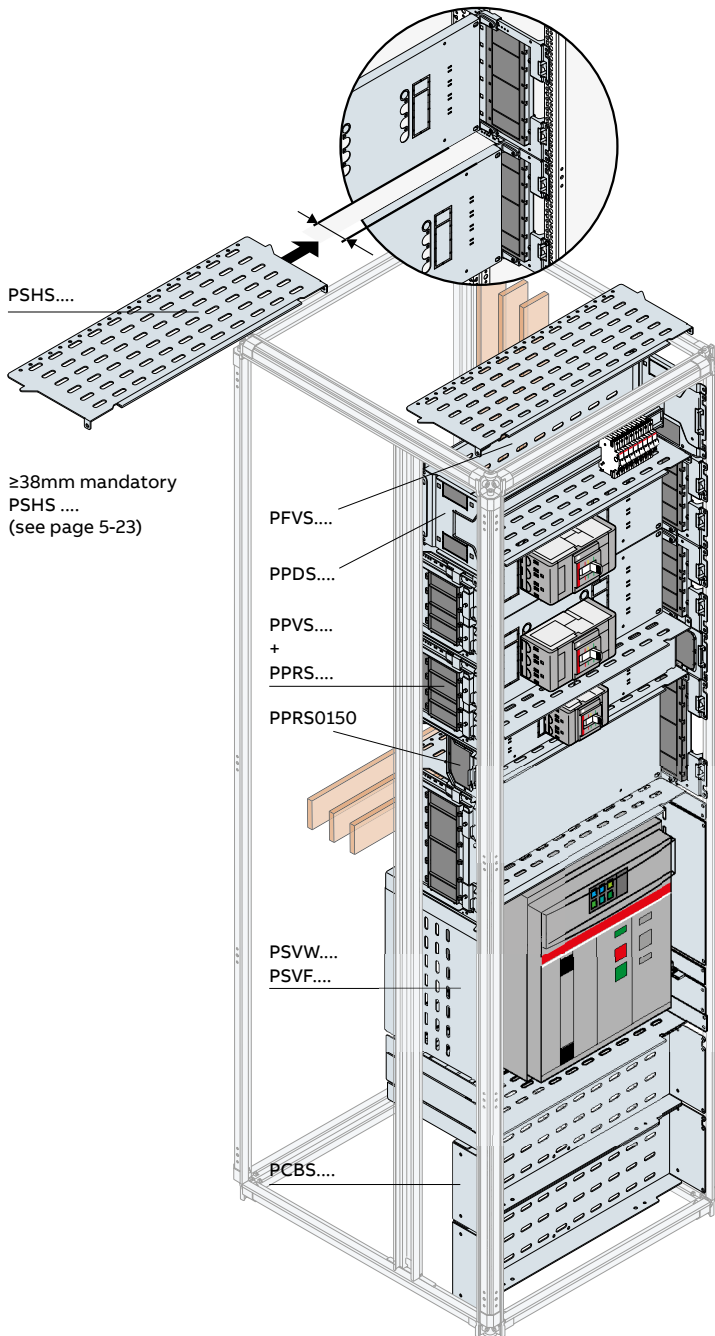


# Internal kits

Examples of use

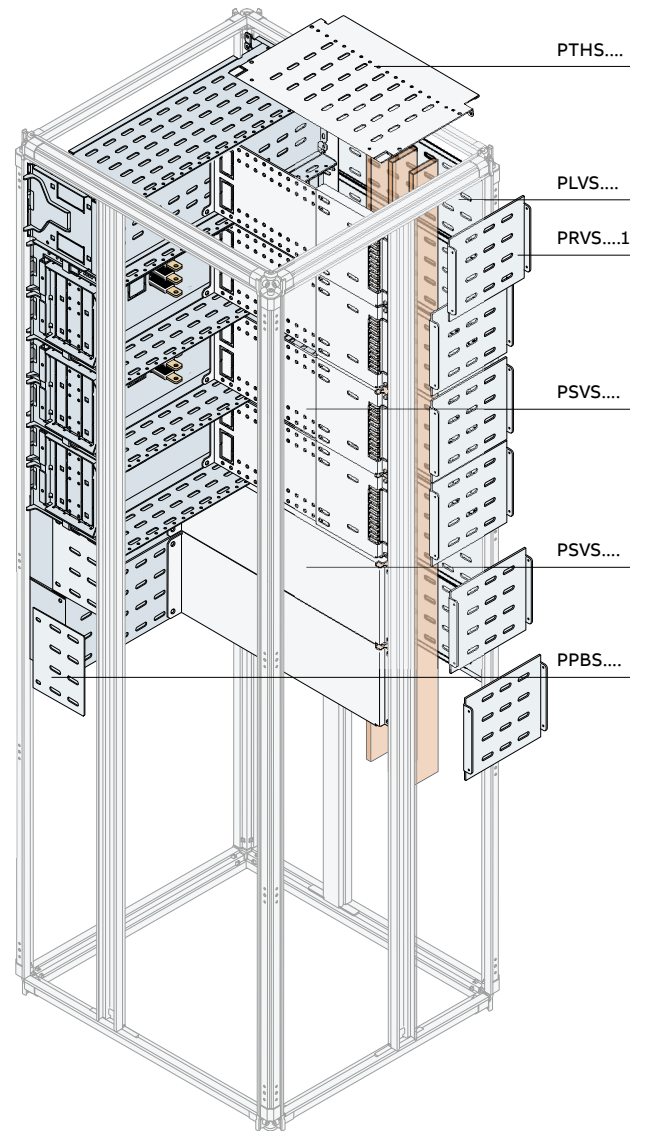
## Segregation Form 2a/3a

Fig.5



## Segregation Form 3b Vertical busbars.

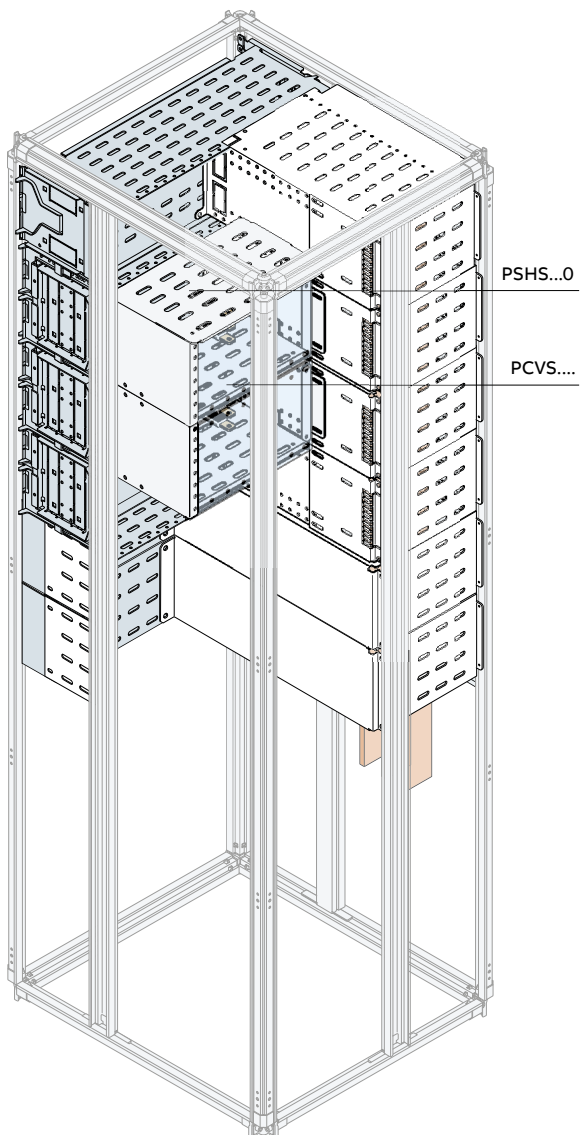
Fig.6



## Segregation Form 4b

Vertical busbars.

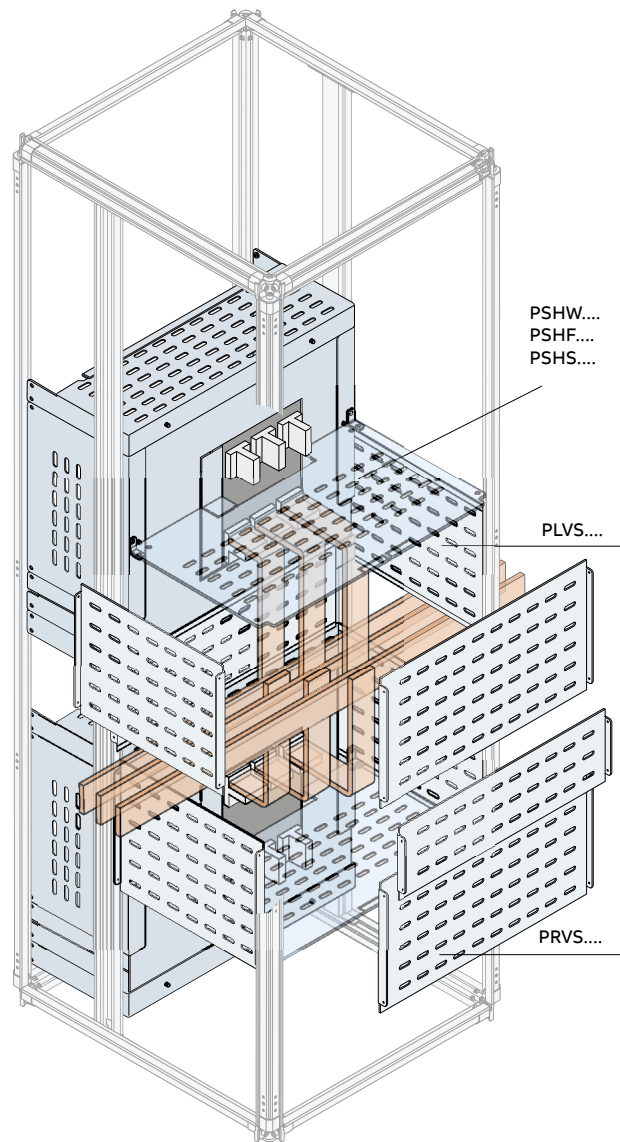
Fig.7



## Segregation Form 3b

Horizontal busbars.

Fig.8

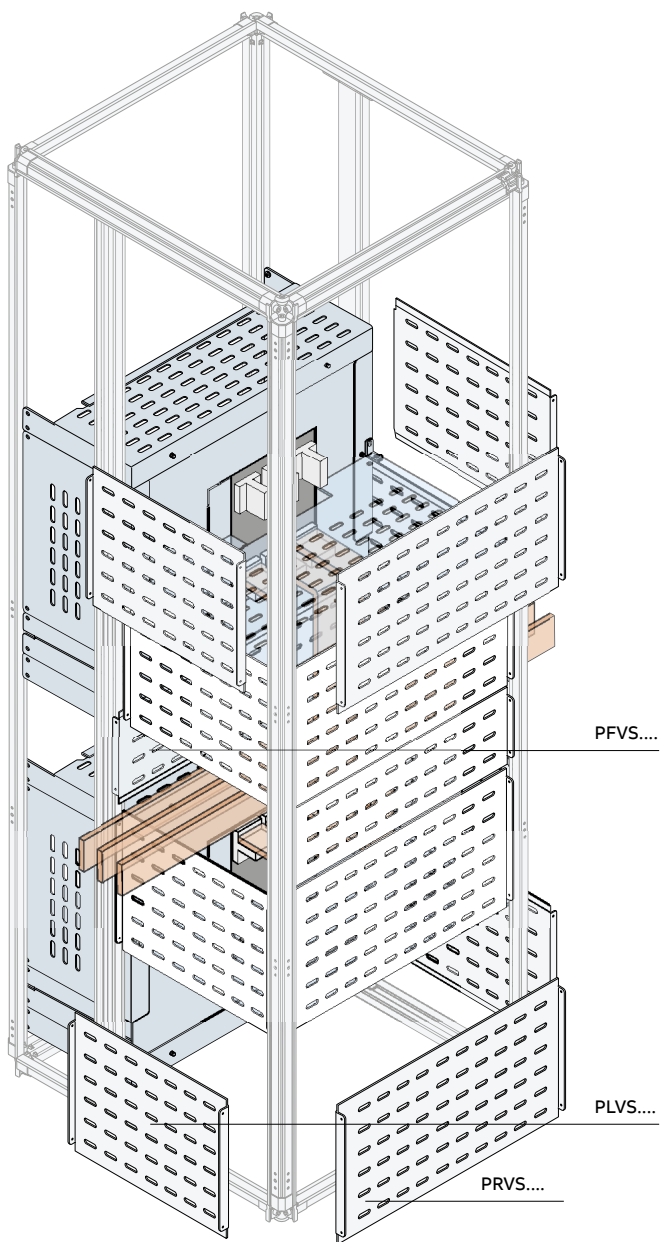


## Internal kits

Examples of use

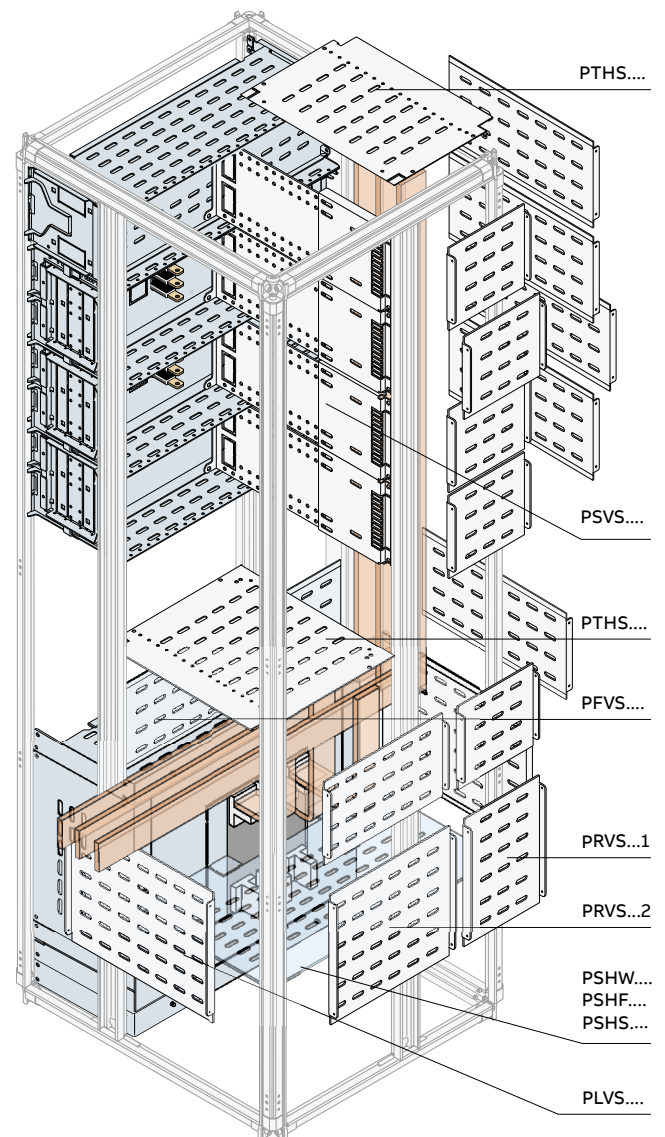
### Segregation Form 4b Horizontal busbars.

Fig.9



### Segregation Form 3b Horizontal and vertical busbars.

Fig.10

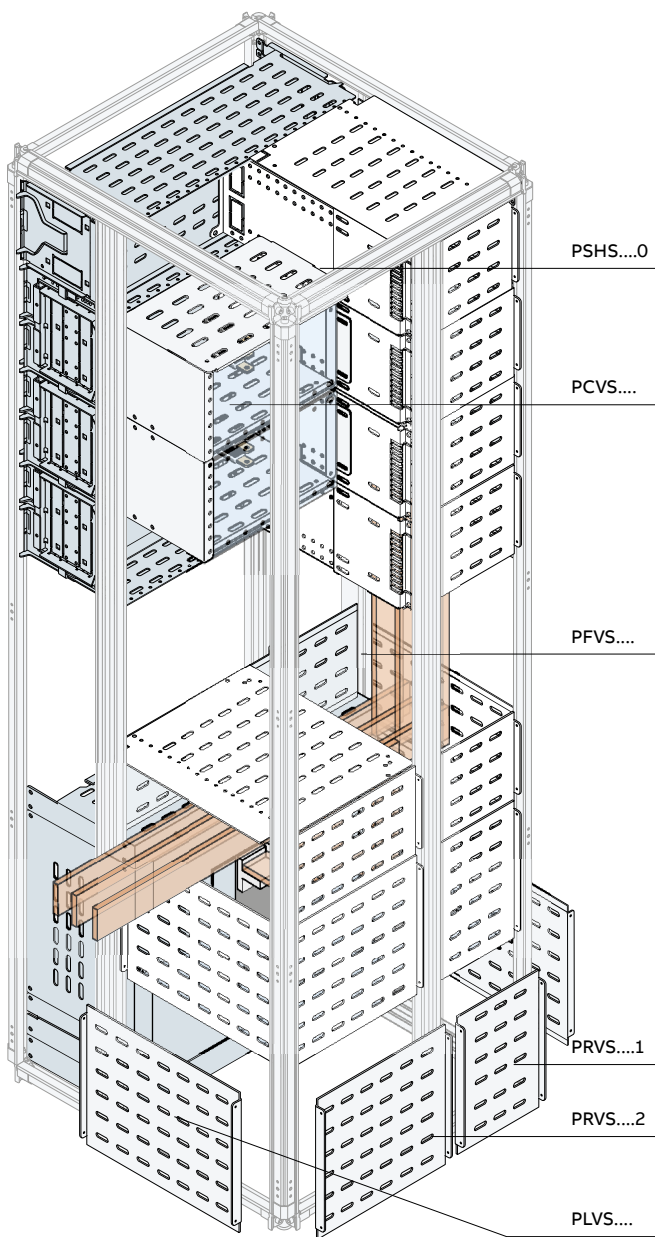




## Segregation Form 4b

Horizontal and vertical busbars.

Fig.11

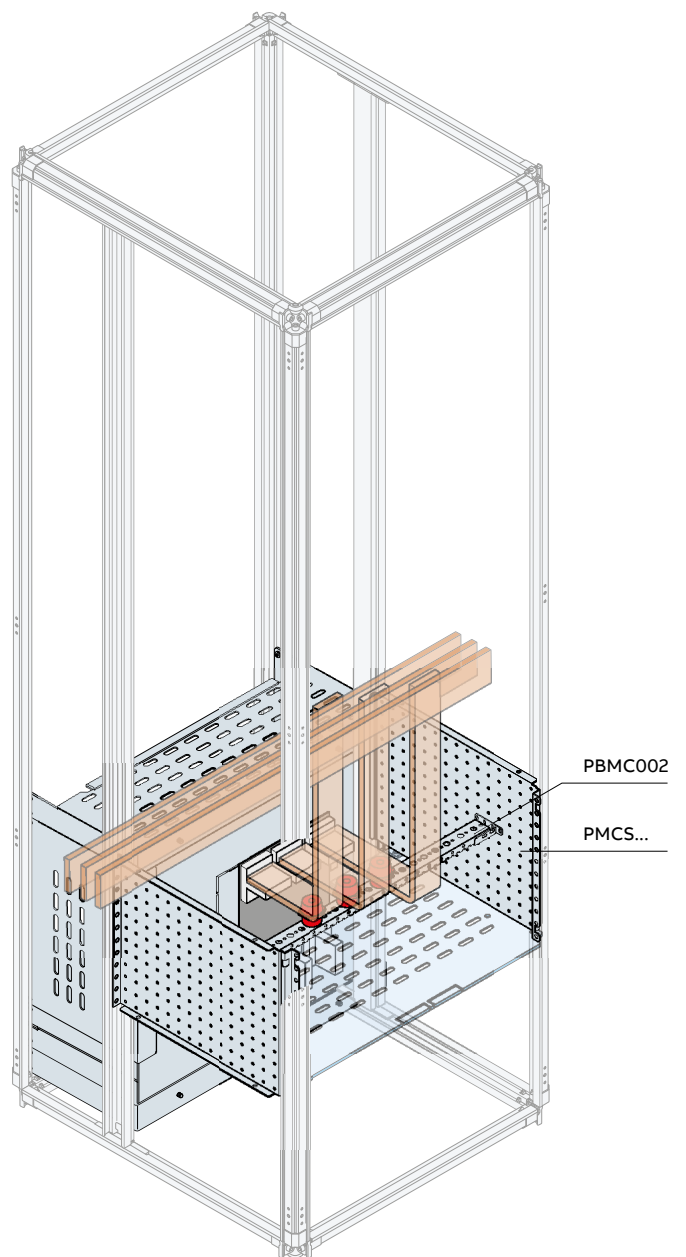


## Connection module

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

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	W=400mm										W=600mm																							
					Segregation form					Segregation form																												
					F 2a - 3a*		F 3b			F 4b					F 2a - 3a*		F 3b																					
					Rear cubicle					Rear cubicle					Rear cubicle					Rear cubicle																		
					Mounting position					Mounting position					Mounting position					Mounting position																		
PO/P1 P0 P1 P2**					PO/P1 P0 P1 P2**					PO/P1 P0 P1 P2**					PO/P1 P0 P1 P2**																							
D (mm)					D (mm)					D (mm)					D (mm)																							
Breaker terminals					Breaker terminals					Breaker terminals					Breaker terminals																							
Front Rear					Front Rear					Front Rear					Front Rear																							
<b>Front/Rear terminals</b>																																						
150	3/4	F	1	PHBX1401																PHCX1401																		
	3/4	F - RHD	1	PHBX1405																	PHCX1405																	
200	3/4	F	1	PHBX1101																	PHCX1101																	
	3/4	F - MO	1	PHBX1404																	PHCX1404																	
	3	F - RC	1	PHBX1323																	PHCX1323																	
	4	F - RC	1	PHBX1423																	PHCX1423																	
	3/4	F - RHD	1	PHBX1105																	PHCX1105																	
	3/4	P	1	PHBX1407																	PHCX1407																	
	3/4	P - RHD	1	PHBX1427																	PHCX1427																	
	3/4	P - MO <sup>(1)</sup>	1	PHBX1409 <sup>(2)</sup>																	PHCX1409																	
500	3/4	F - I	2	PHBX1422																	PHCX1422																	
	3/4	F - I - MO <sup>(1)</sup>	2	PHBX1424 <sup>(2)</sup>																	PHCX1424																	
	3/4	P - I	2	PHBX1422																	PHCX1422																	
	3/4	P - I - MO <sup>(1)</sup>	2	PHBX1424 <sup>(2)</sup>																	PHCX1424																	

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

### VERTICAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	W=400mm										W=600mm																							
					Segregation form					Segregation form					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 2a - 3a*																							
					Vertical rear segregation					Vertical rear segregation					Vertical rear segregation					Vertical rear segregation																		
					Vertical side segregation					Vertical side segregation					Vertical side segregation					Vertical side segregation																		
With upright					With upright					With upright					With upright																							
Without upright					Without upright					Without upright					Without upright																							
D (mm)					D (mm)					D (mm)					D (mm)																							
Bars side Exits side					Bars side Exits side					Bars side Exits side					Bars side Exits side																							
<b>Front/Rear terminals</b>																																						
300	3/4	F	1	PVBX1401																	PVCX1401																	
	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 <sup>(1)</sup>	1	PVBX1409 <sup>(2)</sup>																	PVCX1409 <sup>(2)</sup>																	
	3/4	P	3	-																	PVCX1707																	
	3	F	4	-																	PVCX1301																	
	3/4	P	4	-																	-																	

<sup>(1)</sup> kit with recessed mounting plate.

<sup>(2)</sup> 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.



# Internal kits

## Quick selection guides

### Tmax XT2 HORIZONTAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	W=400mm										W=600mm											
					Segregation form										Segregation form											
					F 2a - 3a*					F 3b					F 4b											
					Universal horizontal shelf					Rear segregation bars side					Rear cubicle											
					Terminals separator					Side rear segregation					Mounting position											
					D (mm)					D (mm)					Breaker terminals											
500 700 900					500 700 900					Front Rear					500 700 900 Segreg. post. Bars side											
Front/Rear terminals																										
150	3	F	1	PHBX2301	ZxPPRS0150	PSHS1904										PHCX2301	ZxPPRS0150	PSHS1906								
200	3/4	F	1	PHBX2401	PPVS2200	PSHS1904										PCVS0206	PCVS0206	PCVS1204	PCVS2204	PHCX2401						
	3/4	F - MO	1	PHBX2404												PCVS0206	PCVS0206	PCVS1204	PCVS2204	PHCX2404						
	4	F - RC	1	PHBX2423			PSVS2050	PSVS2070	PSVS2090	PRVS2041	PLVS2052	PLVS2072	PLVS2092			PCVS0206	PCVS0206	PCVS1204	PCVS2204	PHCX2423						
	3/4	F - RHD	1	PHBX2405														PCVS1204	PCVS2204	PHCX2405						
	3/4	P	1	PHBX2407														PCVS1204	PCVS2204	PHCX2407						
	3/4	P - RHD	1	PHBX2427														PCVS1204	PCVS2204	PHCX2427						
	3/4	P - MO <sup>(1)</sup> <sup>(2)</sup>	1	PHBX2409				PSVS2051	PSVS2071	PSVS2091									PCVS2204	PHCX2409						
	3	W	1	PHBX2310				PSVS2050	PSVS2070	PSVS2090								PCVS1204	PCVS2204	PHCX2310						
	3	W - RHD	1	PHBX2300														PCVS1204	PCVS2204	PHCX2300						
	3	W - MO <sup>(1)</sup>	1	PHBX2312 <sup>(2)</sup>				PSVS2051	PSVS2071	PSVS2091									PCVS2204	PHCX2312 <sup>(2)</sup>						
250	4	P - RC	1	PHBX2428	PPVS2250	PSHS1904												PCVS1254	PCVS2254	PHCX2428						
	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 <sup>(1)</sup>	1	PHBX2412 <sup>(2)</sup>				PSVS2551	PSVS2571	PSVS2591										PCVS2254	PHCX2412 <sup>(2)</sup>					
500	3/4	F - I	2	PHBX2402	PPVS2500	PSHS1904														PHCX2402						
	3/4	F - I - MO <sup>(1)</sup>	2	PHBX2424 <sup>(2)</sup>																PHCX2424 <sup>(2)</sup>						
	3/4	P - I <sup>(1)</sup>	2	PHBX2431 <sup>(2)</sup>																PHCX2431 <sup>(2)</sup>						
	3/4	P - I - MO <sup>(1)</sup>	2	PHBX2424 <sup>(2)</sup>																PHCX2424 <sup>(2)</sup>						
	3/4	W - I <sup>(1)</sup>	2	PHBX2425 <sup>(2)</sup>																PHCX2425 <sup>(2)</sup>						
	3/4	W - I - MO <sup>(1)</sup>	2	PHBX2425 <sup>(2)</sup>																PHCX2425 <sup>(2)</sup>						

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

<sup>(1)</sup> kit with recessed mounting plate.

<sup>(2)</sup> 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.



# Internal kits

## Quick selection guides

### Tmax XT2 VERTICAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	W=400mm										W=600mm			
					Cell side closing	Segregation form										Base kit (segregation form 1)	Segregation form	
						F 2a - 3a*			F 3b (for form 4b order the double of the vertical rear and side segregations)								F 2a - 3a*	
						Universal horizontal shelf	Terminals separator	D (mm)	Vertical rear segregation		Vertical side segregation						Cell side closing	Universal horizontal shelf
									Without upright	With upright	D (mm)							
500	700	900	Without upright	Bars side	Exits side	500	700	900	500	700	900							
<b>Front/Rear terminals</b>																		
300	3/4	F	3	-	PPV52300	PSHS1904									PVCX2701			
	3/4	F	4	-														
	3/4	F	1	PVBX2401													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													PVCX2407	
	3/4	P - RHD	1	PVBX2427													PVCX2427	
	3/4	P - MO <sup>(1)</sup>	1	PVBX2409 <sup>(2)</sup>													PVCX2409 <sup>(2)</sup>	
	3/4	W	1	PVBX2410													PVCX2410	
	350	4	F - RC	1			PVBX2423	PPV52350	PSHS1904									PVCX2423
4		W - RC	1	PVBX2417												PVCX2417		

<sup>(1)</sup> kit with recessed mounting plate.

<sup>(2)</sup> Only rear terminals.

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

										W=800mm															
F 3b (for form 4b order the double of the vertical rear and side segregations)										Segregation form															
Terminals separator			Vertical rear segregation			Vertical side segregation				F 2a - 3a*			F 3b (for form 4b order the double of the vertical rear and side segregations)												
D (mm)			Without upright			With upright				Cell side closing			Universal horizontal shelf		Terminals separator			Vertical rear segregation		Vertical side segregation					
500	700	900	Without upright			With upright		D (mm)									D (mm)					D (mm)			
500	700	900	Without upright			Bars side	Exits side	500	700	900	Base kit (segregation form 1)						500	700	900	Without upright	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 - I 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

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Kit base (Segregation form 1)	W=400mm										W=600mm				
					Segregation form										Segregation form				
					F 2a - 3a*			F 3b			F 4b				F 2a - 3a*		F 3b		
					Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side	Side rear segregation	Rear cubicle			Cell side closing	Universal horizontal shelf	Terminals separator		
							D (mm)					Mounting position					D (mm)		
		500	700	900		500	700	900	Front	Rear			500	700	900	Rear segregation bars side			
<b>Front/Rear terminals</b>																			
150	3	F	1	PHBX3301 <sup>(2)</sup>	2xPPRS0150	PSHS1904											PHCX3301		
	3	F - RHD	1	PHBX3305	2xPPRS0150	PSHS1906												PHCX3305	
200	3/4	F	1	PHBX3401 <sup>(2)</sup>	PPVS2200	PSHS1904												PHCX3401	
	3/4	F - MO	1	PHBX3404	PPVS2200	PSHS1906	PSV52050	PSV52070	PSV52090	PRV52041	PLV52052	PLV52072	PLV52092	PCVS0204	PCVS0204	PCVS1204	PCVS2204	PHCX3404	
	3/4	F - RHD	1	PHBX3405	PPVS2200	PSHS1906	PSV52050	PSV52070	PSV52090	PRV52041	PLV52052	PLV52072	PLV52092	PCVS0204		PCVS1204	PCVS2204	PHCX3405	
	3/4	P	1	PHBX3407	PPVS2200	PSHS1906	PSV52050	PSV52070	PSV52090	PRV52041	PLV52052	PLV52072	PLV52092	PCVS0204		PCVS1204	PCVS2204	PHCX3407	
	3/4	P - RHD	1	PHBX3427	PPVS2200	PSHS1906	PSV52050	PSV52070	PSV52090	PRV52041	PLV52052	PLV52072	PLV52092	PCVS0204		PCVS1204	PCVS2204	PHCX3427	
	3/4	P - MO <sup>(1)</sup>	1	PHBX3409	PPVS2200	PSHS1906	PSV52050	PSV52070	PSV52090	PRV52041	PLV52052	PLV52072	PLV52092	PCVS0204		PCVS1204	PCVS2204	PHCX3409	
250	4	F - RC	1	PHBX3423 <sup>(2)</sup>	PPVS2250	PSHS1904	PSV52550	PSV52570	PSV52590	PRV52541	PLV52552	PLV52572	PLV52592	PCV50254	PCV50254	PCVS1254	PCVS2254	PHCX3423	
	4	F - RC	1	PHBX3423 <sup>(2)</sup>	PPVS2250	PSHS1906	PSV52550	PSV52570	PSV52590	PRV52541	PLV52552	PLV52572	PLV52592	PCV50254	PCV50254	PCVS1254	PCVS2254	PHCX3423	
500	3/4	F - I	2	PHBX3422	PPVS2500	PSHS1904												PHCX3422	
	3/4	F - I - MO <sup>(1)</sup>	2	PHBX3424 <sup>(3)</sup>	PPVS2500	PSHS1906												PHCX3424 <sup>(3)</sup>	
	3/4	P - I	2	PHBX3422	PPVS2500	PSHS1906												PHCX3422	
	3/4	P - I - MO <sup>(1)</sup>	2	PHBX3424 <sup>(3)</sup>	PPVS2500	PSHS1906												PHCX3424 <sup>(3)</sup>	

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

<sup>(1)</sup> kit with recessed mounting plate.

<sup>(2)</sup> Not compatible with high terminal covers. Front only in form 1.

<sup>(3)</sup> 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.





# Internal kits

## Quick selection guides

### Tmax XT3

#### VERTICAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	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 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)						
500	700	900	Bars side	Exits side	500	700	900										
<b>Front/Rear terminals</b>																	
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 <sup>(1)</sup>	1	PVBX3409 <sup>(3)</sup>	PVCX3409 <sup>(3)</sup>													
400	4	F - RC	1	PVBX3423	PPVS2400	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS2040	PRVS2041	PLVS2052	PLVS2072	PLVS2092	PVCX3423	PPVS2400	PSHS1906

<sup>(1)</sup> kit with recessed mounting plate.

<sup>(2)</sup> Not compatible with high terminal covers. Front only in form 1.

<sup>(3)</sup> 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.







# Internal kits

## Quick selection guides

### Tmax XT4 VERTICAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	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 side closing	Universal horizontal shelf	Terminals separator			Vertical rear segregation		Vertical side segregation			Cell side closing	Universal horizontal shelf									
							D (mm)	500	700	900	Without upright	With upright		D (mm)											
<b>Front/Rear terminals</b>																									
300	3/4	F	2	-	PPVS2300	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVSI582	PRVSI541	PLVSI552	PLVSI572	PLVSI592	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	PRVSI740	PRVSI741	PLVSI752	PLVSI772	PLVSI792	PVCX4607	PPVS2350	PSHS1906								
	3/4	P	3	-											-			-							
	3	P	3	-											-			-	PVCX4707						
	3/4	P	1	PVBX4407											-			-	PVCX4407						
	3/4	P - MO <sup>(1)</sup>	1	PVBX4409 <sup>(2)</sup>											-			-	PVCX4409 <sup>(2)</sup>						
	3/4	P - RHD	1	PVBX4427											PSHS4050			PSHS4070	PSHS4090	PRVSI740	PRVSI741	PLVSI752	PLVSI772	PLVSI792	PVCX4427
	3/4	W	1	PVBX4410											-			-	-	-	-	-	-	-	PVCX4410
3/4	W - MO <sup>(1)</sup>	1	PVBX4412 <sup>(2)</sup>	-	-	-	-	-	-	-	-	PVCX4412 <sup>(2)</sup>													
3/4	W - RHD	1	PVBX4400	PSHS4050	PSHS4070	PSHS4090	PRVSI740	PRVSI741	PLVSI752	PLVSI772	PLVSI792	PVCX4400													
400	4	F - RC	1	PVBX4423	PPVS2400	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVSI2040	PRVSI2041	PLVSI2052	PLVSI2072	PLVSI2092	PVCX4423	PPVS2400	PSHS1906								
	4	W - RC	1	PVBX4417											-			-	-	-	-	-	-	PVCX4417	

<sup>(1)</sup> kit with recessed mounting plate.

<sup>(2)</sup> Only rear terminals.

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



# Internal kits

## Quick selection guides

### Tmax XT5 400A HORIZONTAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	W=400mm										W=600mm																			
					Segregation form										Segregation form																			
					F 2a - 3a*					F 3b					F 4b					F 2a - 3a*					F 3b									
					Cell side closing					Rear segregation bars side					Rear cubicle					Cell side closing					Rear segregation bars side									
					Universal horizontal shelf					Terminals separator					Side rear segregation					Mounting position					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														
Front/Rear					Front/Rear					Front/Rear					Front/Rear					Front/Rear														
200	3	F	1	PHBX5329 <sup>(2)</sup>	PPVS2200	PSHS1904	PSVS2050	PSVS2070	PSVS2090	PRVS2041	PLVS2052	PLVS2072	PLVS2092	PCVS0204	PCVS1204	PCVS2204	PHCX5320	PPVS2200	PSHS1906	PSVS2050	PSVS2070	PSVS2090	PRVS2061											
		F - RHD	1	PHBX5306 <sup>(2)</sup>										PCVS0204	PCVS1204	PCVS2204	PHCX5306																	
		F - MO <sup>(1)</sup>	1	PHBX5304 <sup>(2)</sup>										PCVS1204		PCVS2204	PHCX5304 <sup>(3)</sup>																	
	P	1	PHBX5307											PCVS1204	PCVS2204	PHCX5308																		
	P - RHD	1	PHBX5326											PCVS1204	PCVS2204	PHCX5326																		
	P - MO <sup>(1)</sup>	1	PHBX5309 <sup>(3)</sup>													PHCX5309 <sup>(3)</sup>																		
250	3/4	F	1	PHBX5420 <sup>(2)</sup>	PPVS2250	PSHS1904	PSVS2550	PSVS2570	PSVS2590	PRVS2541	PLVS2552	PLVS2572	PLVS2592	PCVS0254	PCVS1254	PCVS2254	PHCX5420	PPVS2250	PSHS1906	PSVS2550	PSVS2570	PSVS2590	PRVS2561											
		F - RC	1	PHBX5406 <sup>(2)</sup>										PCVS0254	PCVS1254	PCVS2254	PHCX5423																	
		F - MO <sup>(1)</sup>	1	PHBX5404 <sup>(3)</sup>										PCVS1254		PCVS2254	PHCX5404 <sup>(3)</sup>																	
	P	1	PHBX5427											PCVS1254	PCVS2254	PHCX5428																		
	P - RHD	1	PHBX5426											PCVS1254	PCVS2254	PHCX5426																		
	P - MO <sup>(1)</sup>	1	PHBX5409 <sup>(3)</sup>													PCVS3254	PHCX5409 <sup>(3)</sup>																	
300	3	W	1	-	PPVS2300	PSHS1904	PSVS3050	PSVS3070	PSVS3090	PRVS3041	PLVS3052	PLVS3072	PLVS3092	PCVS1304	PCVS2304		PHCX5314	PPVS2300	PSHS1906	PSVS3050	PSVS3070	PSVS3090	PRVS3061											
	W - RHD	1	PHBX5314	PCVS1304										PCVS2304		PHCX5314																		
	W - MO <sup>(1)</sup>	1	PHBX5312												PCVS3304	PHCX5312 <sup>(3)</sup>																		
350	3/4	W	1	-	PPVS2350	PSHS1904	PSVS3350	PSVS3370	PSVS3390	PRVS3341	PLVS3352	PLVS3372	PLVS3392	PCVS1354	PCVS2354		PHCX5414	PPVS2350	PSHS1906	PSVS3350	PSVS3370	PSVS3390	PRVS3361											
		W - RHD	1	PHBX5414										PCVS1354	PCVS2354		PHCX5414																	
		W - MO <sup>(1)</sup>	1	PHBX5412 <sup>(3)</sup>												PCVS3354	PHCX5412 <sup>(3)</sup>																	
600	3/4	F - I	2	-	PPVS2600	PSHS1906	PSVS6350	PSVS6370	PSVS6390	PRVS6341	PLVS6352	PLVS6372	PLVS6392				PHCX5402	PPVS2600	PSHS1906	PSVS6350	PSVS6370	PSVS6390	PRVS6361											
		F - I-MO <sup>(1)</sup>	2	-													PHCX5403 <sup>(3)</sup>																	
		P - I <sup>(1)</sup>	2	-													PHCX5431 <sup>(3)</sup>																	
	P - I-MO <sup>(1)</sup>	2	-													PHCX5432 <sup>(3)</sup>																		
	W - I <sup>(1)</sup>	2	-													PHCX5425 <sup>(3)</sup>																		
	W - I-MO <sup>(1)</sup>	2	-													PHCX5411 <sup>(3)</sup>																		

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

<sup>(1)</sup> kit with recessed mounting plate.

<sup>(2)</sup> Not compatible with high terminal covers. front terminal only in form 1.

<sup>(3)</sup> 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.





# 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*						
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			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)					
							500	700	900			Bars side	Exits side	500				700	900
<b>Front/Rear terminals</b>																			
350	3/4	F	1	PVBX5420	PPV52350	PSHS1904									PVCX5420	PPV52350	PSHS1906		
	3/4	F - RHD	1	PVBX5406															PVCX5406
	3/4	F - MO <sup>(1)</sup>	1	PVBX5404 <sup>(4)</sup>															PVCX5404 <sup>(4)</sup>
	3/4	P	1	PVBX5407															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 <sup>(1)</sup>	1	PVBX5412 <sup>(4)</sup>															PVCX5412 <sup>(4)</sup>
	3/4	F	2	-															PVCX5712 <sup>(3)</sup>
	3/4	F	3	-															-
	3/4	W - MO <sup>(1)</sup>	2	-															-
	3/4	W - MO <sup>(1)</sup>	3	-															-
3	W - MO <sup>(1)</sup>	4	-											-					
450	4	F - RC	1	PVBX5423 <sup>(2)</sup>	PPV52450	PSHS1904									PVCX5423 <sup>(2)</sup>	PPV52450	PSHS1906		
	4	P - RC	1	PVBX5428 <sup>(2)</sup>														PVCX5428 <sup>(2)</sup>	
	3	P-RHD	1	-														-	

<sup>(1)</sup> kit with recessed mounting plate.

<sup>(2)</sup> Compatible residual current devices: RC222 for XT5.

<sup>(3)</sup> Only front terminal, not segregated Form 1.

<sup>(4)</sup> Only rear terminals.

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



# Internal kits

## Quick selection guides

Tmax XT5 630A  
HORIZONTAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	W=400mm										W=600mm																										
					Segregation form										Segregation form																										
					F 2a - 3a*					F 3b					F 4b					F 2a - 3a*					F 3b																
					Cell side closing		Universal horizontal shelf			Terminals separator		Rear segregation bars side			Side rear segregation		Rear cubicle			Cell side closing		Universal horizontal shelf			Terminals separator		Rear segregation bars side														
					D (mm)		500 700 900			D (mm)		500 700 900			D (mm)		500 700 900			D (mm)		500 700 900			D (mm)		500 700 900														
					Mounting position		PO			P1			P2**			P3			Mounting position		PO			P1			P2**			P3											
Breaker terminals		Front/Rear			Breaker terminals		Front/Rear			Breaker terminals		Front/Rear			Breaker terminals		Front/Rear			Breaker terminals		Front/Rear																			
<b>Front/Rear terminals</b>																																									
200	3	F	1	PHBX5329 <sup>(2)</sup>	PPVS2200	PSHS1904	PSVS2050	PSVS2070	PSVS2090	PRVS2041	PLVS2052	PLVS2072	PLVS2092	PCVS0204		PCVS1204	PCVS2204	PHCX5320	PPVS2200	PSHS1906	PSVS2050	PSVS2070	PSVS2090	PRVS2061																	
	3	F - RHD	1	PHBX5306 <sup>(2)</sup>																																					
	3	F - MO <sup>(1)</sup>	1	PHBX5304 <sup>(2)</sup>																									PCVS1204			PCVS2204	PHCX5304 <sup>(3)</sup>								
250	3	P	1														PHCX5307 <sup>(2)</sup>																								
	3/4	F	1	PHBX5420 <sup>(2)</sup>	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 <sup>(2)</sup>																									PCVS0254		PCVS1254	PCVS2254	PHCX5406								
	3/4	F - MO <sup>(1)</sup>	1	PHBX5404 <sup>(3)</sup>												PSVS2551	PSVS2571	PSVS2591											PCVS1254			PCVS2254	PHCX5404 <sup>(3)</sup>								
	3/4	P	1	-																													PHCX5407								
3/4	P - MO <sup>(1)</sup>	1	-																													PHCX5427 <sup>(3)</sup>									
350	3/4	W	1	-													PHCX5424	PPVS2350	PSHS1906	PSVS3550	PSVS3570	PSVS3590	PRVS3561																		
600	3/4	F - I	2	-													PHCX5402	PPVS2600	PSHS1906																						
	3/4	F - I-MO <sup>(1)</sup>	2	-												PHCX5403 <sup>(3)</sup>																									
	3/4	P - I <sup>(1)</sup>	2	-												PHCX5431																									
	3/4	P - I-MO <sup>(1)</sup>	2	-												PHCX5432																									
	3/4	W - I <sup>(1)</sup>	2	-												PHCX5425																									
	3/4	W - I-MO <sup>(1)</sup>	2	-												PHCX5411																									

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

<sup>(1)</sup> kit with recessed mounting plate.

<sup>(2)</sup> Not compatible with high terminal covers. Front only in form 1.

<sup>(3)</sup> 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.



# Internal kits

## Quick selection guides

Tmax XT5 630A  
VERTICAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	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 side closing	Universal horizontal shelf	Terminals separator			Vertical rear segregation		Vertical side segregation			Cell side closing	Universal horizontal shelf				
							D (mm)	500	700	900	Without upright	With upright	Without upright	With upright			D (mm)	500	700	900
				Bars side		Exits side														
<b>Front/Rear terminals</b>																				
350	3/4	F	1	PVBX5420	PPVS2350	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVSI740	PRVSI741	PLVSI752	PLVSI772	PLVSI792	PVCX5420	PPVS2350	PSHS1906			
	3/4	F	2												-					
	3/4	F	3												PVCX5712 <sup>(2)</sup>					
	3/4	F - RHD	1	PVBX5406											PVCX5406					
	3/4	F - MO <sup>(1)</sup>	1	PVBX5404 <sup>(3)</sup>											PVCX5404 <sup>(3)</sup>					
	3/4	W	2												PVCX5431					
	3/4	W	3												-					
	3	W	4												-					
	3/4	W - MO <sup>(1)</sup>	3												-					
400	3/4	P	1		PPVS2400	PSHS1904									PVCX5429	PPVS2400	PSHS1906			
	3/4	P - MO <sup>(1)</sup>	1	PVBX5409 <sup>(3)</sup>											PVCX5409 <sup>(3)</sup>					
	3/4	W - MO <sup>(1)</sup>	1												PVCX5430 <sup>(3)</sup>					
	3/4	P-RHD	1												PVCX5407					
450	3	W	1	PVBX5319 <sup>(2)</sup>											PVCX5432					
	3	W	2												PVCX5601 <sup>(2)</sup>					
	3	W	3												-					
	3	P	1												PVCX5307 <sup>(2)</sup>					
	3	P-RHD	1												PVCX5326 <sup>(2)</sup>					

<sup>(1)</sup> kit with recessed mounting plate.

<sup>(2)</sup> Only front terminals not segregated.

<sup>(3)</sup> Only rear terminals.

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



# Internal kits

## Quick selection guides

### Tmax XT6 HORIZONTAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	W=400mm										W=600mm															
					Segregation form										Segregation form															
					F 2a - 3a*					F 3b					F 4b															
					Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side	Side rear segregation	Rear cubicle				Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side									
							Mounting position					D (mm)	P0	P1	P2**			P3	D (mm)											
							Breaker terminals																							
D (mm)				500				700				900				Front/Rear														
Base kit (segregation form 1)				500				700				900				Base kit (segregation form 1)														
<b>Front/Rear terminals</b>																														
300	3	F	1														PHCX6301	PPV52300												
	3	F - RHD	1															PHCX6305		PSHS1906										
	3	F - MO <sup>(1)</sup>	1															PHCX6304 <sup>(3)</sup>				PSV53050		PSV53070		PSV53090		PRV53061		
350	3/4	F	1															PHCX6401												
	3/4	F - RHD	1															PHCX6405												
	3/4	F - MO <sup>(1)</sup>	1															PHCX6404 <sup>(3)</sup>												
	3	W <sup>(2)</sup>	1															PHCX6314												
	3	W - RHD <sup>(2)</sup>	1															PHCX6315												
	3	W - MO <sup>(1) (2)</sup>	1															PHCX6312 <sup>(3)</sup>												
500	3/4	W <sup>(2)</sup>	1															PHCX6410												
	3/4	W - RHD <sup>(2)</sup>	1															PHCX6400												
	3/4	W - MO <sup>(1) (2)</sup>	1															PHCX6412 <sup>(3)</sup>												
700	3/4	F - I	2															PHCX6402												
	3/4	F - I-MO <sup>(1)</sup>	2															PHCX6403 <sup>(3)</sup>												
	3/4	W - I <sup>(1) (2)</sup>	2															PHCX6425 <sup>(3)</sup>												
	3/4	W - I-MO <sup>(1) (2)</sup>	2															PHCX6411 <sup>(3)</sup>												

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

<sup>(1)</sup> kit with recessed mounting plate.

<sup>(2)</sup> Front terminals only in Form 1, high terminal cover not available.

<sup>(3)</sup> 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 2a - 3a*					F 3b					F 4b																		
										Cell side closing					Universal horizontal shelf					Rear segregation bars side																		
										Base kit (segregation form 1)					Terminals separator					Side rear segregation																		
										Mounting position					D (mm)					Mounting position																		
										P0 P1 P2** P3					500 700 900					P0 P1 P2** P3																		
										Breaker terminals					D (mm)					Breaker terminals																		
										500 700 900 Front/Rear					500 700 900					500 700 900 Front/Rear																		
	PLV53052									PCVS0306	PCVS1306	PCVS2306								PHDX6301	PPV52300	PSHS1908	PSV53050	PSV53070	PSV53090	PRV53081	PLV53052	PLV53072	PLV53092	PCVS0308	PCVS1308	PCVS2308						
	PLV53072									PCVS0306	PCVS1306	PCVS2306								PHDX6305			PSV5053	PSV5073	PSV5093					PCVS0308	PCVS1308	PCVS2308						
	PLV53092									PCVS1306		PCVS2306								PHDX6304 (3)			PSV5073	PSV5093						PCVS1308		PCVS2308						
	PLV53552									PCVS0356	PCVS1356	PCVS2356								PHDX6401	PPV52350	PSHS1908	PSV53550	PSV53570	PSV53590	PRV53581	PLV53552	PLV53572	PLV53592	PCVS0358	PCVS1358	PCVS2358						
	PLV53572									PCVS0356	PCVS1356	PCVS2356								PHDX6405			PSV53553	PSV53573	PSV53593					PCVS0358	PCVS1358	PCVS2358						
	PLV53592									PCVS1356		PCVS2356								PHDX6404 (3)			PSV53550	PSV53570	PSV53590					PCVS1358		PCVS2358						
										PCVS1356		PCVS2356								PHDX6404 (3)			PSV53551	PSV53571	PSV53591						PCVS1358	PCVS2358						
										PCVS1356	PCVS2356									PHDX6314			PSV53550	PSV53570	PSV53590						PCVS1358	PCVS2358						
										PCVS1356	PCVS2356									PHDX6315			PSV53551	PSV53571	PSV53591						PCVS1358	PCVS2358						
												PCVS3356								PHDX6312 (3)			PSV53551	PSV53571	PSV53591													PCVS3358
	PLV5052									PCVS1506	PCVS2506									PHDX6414	PPV52500	PSHS1908	PSV5050	PSV5070	PSV5090	PRV5081	PLV5052	PLV5072	PLV5092	PCVS1508	PCVS2508							
	PLV5072									PCVS1506	PCVS2506									PHDX6415			PSV5052	PSV5072	PSV5092					PCVS1508	PCVS2508							
	PLV5092											PCVS3506								PHDX6412 (3)			PSV5052	PSV5072	PSV5092													PCVS3508
																				PHDX6402	PPV52700	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

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

<sup>(1)</sup> kit with recessed mounting plate.  
<sup>(2)</sup> Front terminals only in Form 1, high terminal cover not available.  
<sup>(3)</sup> 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)			With upright			D (mm)						D (mm)			D (mm)														
500	700	900	Without upright	Bars side	Exits side	500	700	900				500	700	900	Without upright	Bars side	Exits side	500	700	900									
500	700	900																											
PSHS6050	PSHS6070	PSHS6090	PRVS2060	PRVS2061	PRVS2062	PLVS2020	PLVS2072	PLVS2092	PVDX6401	PPVS2400	PSHS1908	PSHS8050	PSHS8070	PSHS8090	PRVS2080	PRVS2081	PRVS2082	PLVS2052	PLVS2072	PLVS2092									
									PVDX6405																				
									PVDX6404 (3)																				
										PPVS2450	PSHS1908										PVFX6610								
																					PVFX6612	PPVS2450							
									PVDX6414			PSHS8050	PSHS8070	PSHS8090	PRVS2280	PRVS2281	PRVS2282	PLVS2252	PLVS2272	PLVS2292			PSHS1901						
									PVDX6412 (3)																				
									PVDX6415			PSHS8050	PSHS8070	PSHS8090	PRVS2280	PRVS2281	PRVS2282	PLVS2252	PLVS2272	PLVS2292									
																					PVFX6615								

- Key:**
- 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

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

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

### VERTICAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	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 side closing		Universal horizontal shelf			Terminals separator			Vertical rear segregation		Vertical side segregation			Cell side closing		Universal horizontal shelf		
					D (mm)		D (mm)			D (mm)			Without upright		With upright			D (mm)		D (mm)		
		500 700 900			500 700 900			Without upright		With upright			500 700 900		500 700 900							
		500 700 900			500 700 900			Without upright		With upright			500 700 900		500 700 900							
		500 700 900			500 700 900			Without upright		With upright			500 700 900		500 700 900							
<b>Front/Rear terminals</b>																						
350	3/4	F	1	PVBT4406	PPVS2350	PSHS1904											PVCT4406					
	3/4	F - RHD	1	PVBT4406			PSHS4050	PSHS4070	PSHS4090	PRVS1740	PRVS1741				PLVS1752	PLVS1772	PLVS1792	PVCT4406				
	3/4	F - MO <sup>(1)</sup>	1	PVBT4404 <sup>(2)</sup>														PVCT4404 <sup>(3)</sup>				
450	4	F - RC	1	PVBT4423	PPVS2450	PSHS1904												PVCT4423				
							PSHS4050	PSHS4070	PSHS4090	PRVS2240	PRVS2241				PLVS2252	PLVS2272	PLVS2292	PVCT4423				
																		PPVS2450				
																		PSHS1906				

<sup>(1)</sup> kit with recessed mounting plate.

<sup>(2)</sup> Not compatible with high terminal covers. Front only in form 1.

<sup>(3)</sup> 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.



# Internal kits

## Quick selection guides

### Tmax T5 400A HORIZONTAL INSTALLATION

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

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

<sup>(1)</sup> kit with recessed mounting plate.  
<sup>(2)</sup> Not compatible with high terminal covers. Front only in form 1.  
<sup>(3)</sup> 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.





# Internal kits

## Quick selection guides

### Tmax T5 400A VERTICAL INSTALLATION

		W=400mm											W=600mm							
		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			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)							
							500	700	900		Bars side	Exits side	500	700				900		
							Front/Rear terminals													
350	3/4	F	1	PVBT5406	PPV52350	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS1740	PRVS1741	PLVS1752	PLVS1772	PLVS1792	PVCT5406	PPV52350	PSHS1906			
	3/4	F - RHD	1	PVBT5406											PVCT5406					
	3/4	F - MO <sup>(1)</sup>	1	PVBT5404 <sup>(2)</sup>											PVCT5404 <sup>(2)</sup>					
	3/4	P	1	PVBT5426											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 <sup>(1)</sup>	1	PVBT5412 <sup>(2)</sup>											PVCT5412 <sup>(2)</sup>					
	3/4	F	2	-											-					
	3/4	F	3	-											-					
	3/4	W - MO <sup>(1)</sup>	2	-											-					
	3/4	W - MO <sup>(1)</sup>	3	-											-					
3	W - MO <sup>(1)</sup>	4	-	-																
450	4	F - RC	1	PVBT5423	PPV52450	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS2240	PRVS2241	PLVS2252	PLVS2272	PLVS2292	PVCT5423	PPV52450	PSHS1906			
	4	P - RC	1	PVBT5428											PVCT5428					

<sup>(1)</sup> kit with recessed mounting plate.

<sup>(2)</sup> Only rear terminals.

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



# Internal kits

## Quick selection guides

Tmax T5 630A  
HORIZONTAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	W=400mm										W=600mm														
					Segregation form										Segregation form														
					F 2a - 3a*					F 3b					F 4b					F 2a - 3a*					F 3b				
					Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side	Side rear segregation	Rear cubicle				Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side								
							D (mm)	500	700			900	Mounting position	P0/P1	P0			P1	P2**	D (mm)		500	700	900					
					Breaker terminals										Breaker terminals														
					500 700 900					Front/Rear					500 700 900														
200	3	F	1	PHBT5306 <sup>(2)</sup>	PPVS2200	PSHS1904	PSVS2050	PSVS2070	PSVS2090	PRVS2041	PLVS2052	PLVS2072	PLVS2092	PCVS0204	PCVS1204	PCVS2204	PHCT5306	PPVS2200	PSHS1906	PSVS2050	PSVS2070	PSVS2090	PRVS2061						
	3	F - RHD	1	PHBT5306 <sup>(2)</sup>										PCVS0204	PCVS1204	PCVS2204	PHCT5306												
	3	F - MO <sup>(1)</sup>	1	PHBT5304 <sup>(3)</sup>										PCVS1204	PCVS2204	PHCT5304 <sup>(3)</sup>													
250	3/4	F	1	PHBT5406 <sup>(2)</sup>	PPVS2250	PSHS1904	PSVS2550	PSVS2570	PSVS2590	PRVS2541	PLVS2552	PLVS2572	PLVS2592	PCVS0254	PCVS1254	PCVS2254	PHCT5406	PPVS2250	PSHS1906	PSVS2550	PSVS2570	PSVS2590	PRVS2561						
	4	F - RC	1	-										PCVS0254	PCVS1254	PCVS2254	PHCT5423												
	3/4	F - RHD	1	PHBT5406 <sup>(2)</sup>										PCVS1254	PCVS2254	PHCT5406													
	3/4	F - MO <sup>(1)</sup>	1	PHBT5404 <sup>(3)</sup>										PCVS1254	PCVS2254	PHCT5404 <sup>(3)</sup>													
	3/4	P	1	-										PCVS2254	PHCT5407														
	3/4	P - MO <sup>(1)</sup>	1	-										PHCT5427 <sup>(3)</sup>															
350	3/4	W	1	-	PPVS2350	PSHS1906	PSVS3550	PSVS3570	PSVS3590	PRVS3561	PHCT5416																		
600	3/4	F - I	2	-	PPVS2600	PSHS1906	PSVS2600	PSVS2600	PSVS2600	PSVS2600	PSVS2600	PSVS2600	PSVS2600	PHCT5402	PHCT5402	PHCT5402	PHCT5402	PPVS2600	PSHS1906	PSVS2600	PSVS2600	PSVS2600	PSVS2600						
	3/4	F - I-MO <sup>(1)</sup>	2	-										PHCT5403 <sup>(3)</sup>															
	3/4	P - I <sup>(1)</sup>	2	-										PHCT5431 <sup>(3)</sup>															
	3/4	P - I-MO <sup>(1)</sup>	2	-										PHCT5432 <sup>(3)</sup>															
	3/4	W - I <sup>(1)</sup>	2	-										PHCT5425 <sup>(3)</sup>															
	3/4	W - I-MO <sup>(1)</sup>	2	-										PHCT5411 <sup>(3)</sup>															

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

<sup>(1)</sup> kit with recessed mounting plate.

<sup>(2)</sup> Not compatible with high terminal covers. Front only in form 1.

<sup>(3)</sup> 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 2a - 3a*		F 3b		F 4b											
Side rear segregation	Rear cubicle												Cell side closing	Universal horizontal shelf	Terminals separator	Rear segregation bars side	Side rear segregation	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								500	700	900	Front/Rear														
PLVS2052			PCVS0206	PCVS1206	PCVS2206								PHDT5306	PPVS2200	PSHS1908								PCVS0208	PCVS1208	PCVS2208			
PLVS2072			PCVS0206	PCVS1206	PCVS2206								PHDT5306	PPVS2200	PSHS1908								PCVS0208	PCVS1208	PCVS2208			
PLVS2092			PCVS1206		PCVS2206								PHDT5304 (3)	PPVS2200	PSHS1908								PCVS1208		PCVS2208			
PLVS2552			PCVS0256	PCVS1256	PCVS2256								PHDT5406	PPVS2250	PSHS1908								PCVS0258	PCVS1258	PCVS2258			
PLVS2572			PCVS0256	PCVS1256	PCVS2256								PHDT5423	PPVS2250	PSHS1908								PCVS0258	PCVS1258	PCVS2258			
PLVS2592			PCVS0256	PCVS1256	PCVS2256								PHDT5406	PPVS2250	PSHS1908								PCVS0258	PCVS1258	PCVS2258			
			PCVS1256		PCVS2256								PHDT5404 (3)	PPVS2250	PSHS1908								PCVS1258		PCVS2258			
				PCVS1256									PHDT5407	PPVS2250	PSHS1908									PCVS1258		PCVS2258		
													PHDT5428 (3)	PPVS2250	PSHS1908											PCVS3258		
													PHDT5428 (3)	PPVS2250	PSHS1908												PCVS3258	
PLVS3552				PCVS1356										PPVS2600	PSHS1908													
PLVS3572														PPVS2600	PSHS1908													
PLVS3592														PPVS2600	PSHS1908													
														PPVS2600	PSHS1908													
														PHDT5431 (3)	PSHS1908													
														PHDT5432 (3)	PSHS1908													
														PHDT5425 (3)	PSHS1908													
														PHDT5411 (3)	PSHS1908													

**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 630A  
VERTICAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	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 side closing	Universal horizontal shelf	Terminals separator			Vertical rear segregation		Vertical side segregation			Cell side closing	Universal horizontal shelf		
							D (mm)	Without upright	With upright	Bars side	Exits side	D (mm)						
500	700	900	Without upright	With upright	500	700	900	Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf								
<b>Front/Rear terminals</b>																		
350	3/4	F	1	PVBT5406	PPVS2350	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVSI740	PRVSI741		PLVSI752	PLVSI772	PLVSI792	PVCT5406	PPVS2350	PSHS1906
	3/4	F - RHD	1	PVBT5406												PVCT5406		
	3/4	F - MO <sup>(1)</sup>	1	PVBT5404 <sup>(2)</sup>												PVCT5404 <sup>(2)</sup>		
	3/4	W	2	-												-		
	3/4	W	3	-												-		
	3	W	4	-												-		
	3/4	W - MO <sup>(1)</sup>	3	-												-		
400	3/4	P	1	-	PPVS2400	PSHS1904										PVCT5407	PPVS2400	PSHS1906
	3/4	P - MO <sup>(1)</sup>	1	PVBT5409 <sup>(2)</sup>												PVCT5409 <sup>(2)</sup>		
	3/4	W - MO <sup>(1)</sup>	1	-												PVCT5430 <sup>(2)</sup>		

<sup>(1)</sup> kit with recessed mounting plate.

<sup>(2)</sup> Only rear terminals.

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



# Internal kits

## Quick selection guides

### Tmax T6 HORIZONTAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	W=400mm										W=600mm									
					Segregation form										Segregation form									
					F 2a - 3a*					F 3b					F 4b									
					Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side	Side rear segregation	Rear cubicle			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side			
							D (mm)					Mounting position						D (mm)						
							500	700	900			P0/P1	P0	P1				P2**	500	700		900	Front	Rear
<b>Front/Rear terminals</b>																								
300	3	F	1														PHCT6301	PPV52300	PSHS1906	PSV53050	PSV53070	PSV53090	PRV53061	
	3	F - RHD	1															PHCT6305						
	3	F - MO <sup>(1)</sup>	1															PHCT6304 <sup>(3)</sup>			PSV55053	PSV55073	PSV55093	
350	3/4	F	1															PHCT6401	PPV52350	PSHS1906	PSV53550	PSV53570	PSV53590	PRV53561
	3/4	F - RHD	1															PHCT6405			PSV53553	PSV53573	PSV53593	
	3/4	F - MO <sup>(1)</sup>	1															PHCT6404 <sup>(3)</sup>			PSV53550	PSV53570	PSV53590	
	3	W <sup>(2)</sup>	1															PHCT6314			PSV53551	PSV53571	PSV53591	
	3	W - RHD <sup>(2)</sup>	1															PHCT6314			PSV53550	PSV53570	PSV53590	
	3	W - MO <sup>(1) (2)</sup>	1															PHCT6312 <sup>(3)</sup>			PSV53551	PSV53571	PSV53591	
500	3/4	W <sup>(2)</sup>	1															PHCT6410	PPV52500	PSHS1906	PSV55050	PSV55070	PSV55090	PRV55061
	3/4	W - RHD <sup>(2)</sup>	1															PHCT6400			PSV55052	PSV55072	PSV55092	
	3/4	W - MO <sup>(1) (2)</sup>	1															PHCT6412 <sup>(3)</sup>			PSV55052	PSV55072	PSV55092	
700	3/4	F - I	2															PHCT6402	PPV52700	PSHS1906				
	3/4	F - I-MO <sup>(1)</sup>	2															PHCT6403 <sup>(3)</sup>						
	3/4	W - I <sup>(1) (2)</sup>	2															PHCT6425 <sup>(3)</sup>						
	3/4	W - I-MO <sup>(1) (2)</sup>	2															PHCT6411 <sup>(3)</sup>						

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

<sup>(1)</sup> kit with recessed mounting plate.

<sup>(2)</sup> Front terminals only in Form 1, high terminal cover not available.

<sup>(3)</sup> 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 2a - 3a*					F 3b					F 4b																		
										Cell side closing					Universal horizontal shelf					Rear segregation bars side																		
										Base kit (segregation form 1)					Terminals separator					Side rear segregation																		
										Mounting position					D (mm)					Mounting position																		
										P0/P1 P1 P2** P3					500 700 900					P0/P1 P1 P2** P3																		
										Breaker terminals					D (mm)					Breaker terminals																		
										500 700 900 Front Rear					500 700 900					500 700 900 Front Rear																		
	PLVS3052									PCVS0306	PCVS1306	PCVS2306								PHDT6301	PPVS2300	PSHS1908	PSVS3050	PSVS070	PSVS3090	PRVS3081	PLVS3052	PLVS3072	PLVS3092	PCVS0308	PCVS1308	PCVS2308						
	PLVS3072									PCVS0306	PCVS1306	PCVS2306								PHDT6305			PSVS5053	PSVS073	PSVS5093					PCVS0308	PCVS1308	PCVS2308						
	PLVS3092									PCVS1306		PCVS2306								PHDT6304 (3)			PSVS5073	PSVS5093						PCVS1308		PCVS2308						
	PLVS3552									PCVS0356	PCVS1356	PCVS2356								PHDT6401	PPVS2350	PSHS1908	PSVS3550	PSVS3570	PSVS3590	PRVS3581	PLVS3552	PLVS3572	PLVS3592	PCVS0358	PCVS1358	PCVS2358						
	PLVS3572									PCVS0356	PCVS1356	PCVS2356								PHDT6405			PSVS3553	PSVS3573	PSVS3593					PCVS0358	PCVS1358	PCVS2358						
	PLVS3592									PCVS1356		PCVS2356								PHDT6404 (3)			PSVS3550	PSVS3570	PSVS3590					PCVS1358		PCVS2358						
										PCVS1356		PCVS2356								PHDT6314			PSVS3551	PSVS3571	PSVS3591						PCVS1358	PCVS2358						
										PCVS1356		PCVS2356								PHDT6314			PSVS3570	PSVS3590							PCVS1358	PCVS2358						
													PCVS3356							PHDT6312 (3)			PSVS3551	PSVS3571	PSVS3591													PCVS3358
	PLVS5052									PCVS1506	PCVS2506									PHDT6414	PPVS2500	PSHS1908	PSVS5050	PSVS5070	PSVS5090	PRVS5081	PLVS5052	PLVS5072	PLVS5092	PCVS1508	PCVS2508							
	PLVS5072									PCVS1506	PCVS2506									PHDT6414			PSVS5052	PSVS5072	PSVS5092					PCVS1508	PCVS2508							
	PLVS5092												PCVS3506							PHDT6412 (3)																		PCVS3508
																				PHDT6402	PPVS2700	PSHS1908																
																				PHDT6403 (3)																		

**Key:**  
 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 - I 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 - 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

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	W=400mm										W=600mm							
					Segregation form																	
					F 2a - 3a*					F 3b (for form 4b order the double of the vertical rear and side segregations)										F 2a - 3a*		
					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)				D (mm)											
500	700	900	Without upright	With upright			500	700	900													
						Bars side	Exits side															
<b>Front/Rear terminals</b>																						
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 <sup>(1)</sup>	1											PVBT6404 <sup>(3)</sup>			PVCT6404 <sup>(3)</sup>				
450	3/4	W <sup>(2)</sup>	2	-	PPVS2450	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS2240	PRVS2241	PLVS2252	PLVS2272	PLVS2292	-	PPVS2450	PSHS1906					
		3/4	W - MO <sup>(1) (2)</sup>	2											-			-				
		3	W <sup>(2)</sup>	1											PVBT6314			-				
		3	W - MO <sup>(1) (2)</sup>	1											PVBT6312 <sup>(3)</sup>			-				
		3	W - RHD <sup>(2)</sup>	1											PVBT6314			-				
		3/4	W <sup>(2)</sup>	1											-			PVCT6414				
		3/4	W - MO <sup>(1) (2)</sup>	1											-			PVCT6412 <sup>(3)</sup>				
		3/4	W - RHD <sup>(2)</sup>	1											-			PVCT6414				

<sup>(1)</sup> kit with recessed mounting plate.

<sup>(2)</sup> Front terminals only in Form 1, high terminal cover not available.

<sup>(3)</sup> Only rear terminals.

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



# Internal kits

## Quick selection guides

### Tmax T7

#### HORIZONTAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	W=400mm										W=600mm														
					Segregation form										Segregation form														
					F 2a - 3a*					F 3b					F 4b					F 2a - 3a*					F 3b				
					Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side	Side rear segregation	Rear cubicle				Cell side closing	Universal horizontal shelf	Terminals separator			Rear segregation bars side								
							Mounting position					Breaker terminals						D (mm)											
		D (mm)				D (mm)		P0/P1	P0	P1	P2			D (mm)															
		500 700 900				500 700 900		Front	Rear			500 700 900																	
<b>Front/Rear terminals</b>																													
300	3	F	1																	PHCT7329									
	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									
	3/4	F - MO	1																	PHCT7420									
	3/4	F - RHD	1																	PHCT7420									
400	3/4	F - I	1																	PHCT7418									
	3/4	F - I-MO	1																	PHCT7418									
500	3/4	W <sup>(2)</sup>	1																	PHCT7430									
	3/4	W - I <sup>(2)</sup>	1																	PHCT7430									
	3/4	W - I-MO <sup>(2)</sup>	1																	PHCT7430									
	3/4	W - MO <sup>(2)</sup>	1																	PHCT7430									
	3/4	W - RHD <sup>(2)</sup>	1																	PHCT7430									

#### VERTICAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	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*					F 2a - 3a*				
					Cell side closing	Universal horizontal shelf	Terminals separator			Vertical rear segregation	Vertical side segregation	Cell side closing	Universal horizontal shelf	Terminals separator			Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf					
							D (mm)							D (mm)										
		D (mm)				Without upright		With upright				D (mm)												
		500 700 900				Without upright		Bars side	Exits side			500 700 900												
450	3/4	F	1																	PVCT7419				
	3/4	F - I	1																	PVCT7419				
	3/4	F - I-MO	1																	PVCT7419				
	3/4	F - MO	1																	PVCT7419				
500	3/4	W <sup>(2)</sup>	2																	-				
	3/4	W - MO <sup>(2)</sup>	2																	-				
	3/4	W <sup>(2)</sup>	1																	PVCT7413				
	3/4	W - I <sup>(2)</sup>	1																	PVCT7413				
3/4	W - I-MO <sup>(2)</sup>	1																	PVCT7413					
3/4	W - MO <sup>(2)</sup>	1																	PVCT7413					

<sup>(2)</sup> 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.



# Internal kits

## Quick selection guides

### Emax E1.2 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					
				Cell side closing	Universal horizontal shelf	Terminals separator	Rear segregation bars side	Side rear segregation	Rear cubicle				Base kit (segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator	Rear segregation bars side						
Mounting position									D (mm)	D (mm)	Breaker terminals												
						P0/P1	P0	P1			P2**												
<b>Front/Rear terminals</b>																							
400	3/4	F	1														PHCE1241	PPVS2400	PSHS1906	PSVS4050	PSVS4070	PSVS4090	PRVS4061
	3/4	F-I	1														PHCE1241						
500	3/4	W <sup>(2)</sup>	1														PHCE1240	PSHW5061			PSVS0055	PSVS0057	PRVS0061
	3/4	W-I <sup>(2)</sup>	1														PHCE1240						

### 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*								
				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						
Without upright							With upright																
<b>Front/Rear terminals</b>																							
450	3/4	F	2	-																			
	3/4	F	1	PVBE1241	PPVS2450	PSHS1904	PSHS4050	PSHS4070	PSHS4090	PRVS2240	PRVS2241		PLVS2252	PLVS2272	PLVS2292			PVCE1241	PPVS2450		PSHS1906		
	3/4	F-I	1	PVBE1241														PVCE1241					
500	3/4	W <sup>(2)</sup>	2	-																			
	3/4	W <sup>(2)</sup>	1	-																			
	3/4	W-I <sup>(2)</sup>	1	-																			

<sup>(2)</sup> 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										
Mounting position											Mounting position										
PO/P1 P0 P1 P2**											PO/P1 P0 P1 P2**										
D (mm) Breaker terminals											D (mm) Breaker terminals										
500	700	900	Front	Rear							500	700	900	Front	Rear						
	PLVS4052				PCVS0406			PCVS1406	PCVS2406	PHDE1241											
	PLVS4072				PCVS0406			PCVS1406	PCVS2406	PHDE1241											
	PLVS4092																				
	PLVS5072							PCVS5060		PHDE1240											
	PLVS5092							PCVS5060		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*										
Vertical rear segregation											Vertical rear segregation						Vertical rear segregation					Vertical rear segregation										
Vertical side segregation											Vertical side segregation						Vertical side segregation					Vertical side segregation										
With upright											With upright						With upright					With upright										
Without upright											Without upright						Without upright					Without 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								PVDE1262																							
	PSHS6070								PVDE1241																							
	PSHS6090								PVDE1241																							
	PRVS2260																															
	PRVS2261																															
	PRVS2262																															
	PLVS2252																															
	PLVS2272																															
	PLVS2292																															
	PSHW6051								PVDE1240																							
	PSHW6071																															
	PSHW6091																															
	PRVS2560																															
	PRVS2561																															
	PRVS2562																															
	PLVS2552																															
	PLVS2572																															
	PLVS2592																															
	PSHW8051								PVDE1240																							
	PSHW8071																															
	PSHW8091																															
	PRVS2580																															
	PRVS2581																															
	PRVS2582																															
	PLVS2552																															
	PLVS2572																															
	PLVS2592																															

- Key:**
- 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 - I 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 - 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

W=400mm													W=600mm				
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	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			Vertical rear segregation		Vertical side segregation			Base kit (segregation form 1)	No.2 horizontal shelves No.1 back plate No.2 side shelves	
					With upright		D (mm)			Without upright		D (mm)					
500 700 900		500 700 900			Without upright		500 700 900			Base kit (segregation form 1)	No.2 horizontal shelves No.1 back plate No.2 side shelves						
Bars side Exits side		500 700 900			Without upright		500 700 900										
Front/Rear terminals																	
600	3/4	F	1												PVCE2441	PSV/F6062	
	3/4	F-I	1												PVCE2441	PSV/F6062	
	3/4	W	1												PVCE2450	PSV/W6062	
	3/4	W-I	1												PVCE2450	PSV/W6062	

### Emax E4.2 VERTICAL INSTALLATION

W=400mm													W=600mm				
Cell height (mm)	No. of poles	Execution	No. of breakers per cell	Base kit (segregation form 1)	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			Vertical rear segregation		Vertical side segregation			Base kit (segregation form 1)	No.2 horizontal shelves No.1 back plate No.2 side shelves	
					With upright		D (mm)			Without upright		D (mm)					
500 700 900		500 700 900			Without upright		500 700 900			Base kit (segregation form 1)	No.2 horizontal shelves No.1 back plate No.2 side shelves						
Bars side Exits side		500 700 900			Without upright		500 700 900										
Front/Rear terminals																	
600	3/4	F	1												PVCE2442	PSV/F6062	
	3/4	F-I	1													PSV/F6062	
	3	W	1												PVCE4350	PSV/W6062	
	3	W-I	1												PVCE4350	PSV/W6062	
	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.





# Internal kits

## Quick selection guides

### Emax E6.2 VERTICAL INSTALLATION

Cell height (mm)	No. of poles	Execution	No. of breakers per cell	W=1000mm												W=1250mm														
				Segregation form						Segregation form						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)			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)					
				Vertical rear segregation		Vertical side segregation		Vertical rear segregation		Vertical side segregation		Vertical rear segregation		Vertical side segregation		Vertical rear segregation		Vertical side segregation		Vertical rear segregation		Vertical side segregation		Vertical rear segregation		Vertical side segregation				
				With upright				Without upright				With upright				Without upright				With upright				Without upright						
				D (mm)			D (mm)			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	500	700	900	500	700	900						
				No.2 horizontal shelves			No.1 back plate			No.2 side shelves			No.2 horizontal shelves			No.1 back plate			No.2 side shelves			No.2 horizontal shelves			No.1 back plate			No.2 side shelves		
				Terminals separator			Without upright			Terminals separator			Without upright			Terminals separator			Without upright			Terminals separator			Without upright					
				Base kit (segregation form 1)			Base kit (segregation form 1)			Base kit (segregation form 1)			Base kit (segregation form 1)			Base kit (segregation form 1)			Base kit (segregation form 1)			Base kit (segregation form 1)			Base kit (segregation form 1)					
				No.2 horizontal shelves			No.1 back plate			No.2 side shelves			No.2 horizontal shelves			No.1 back plate			No.2 side shelves			No.2 horizontal shelves			No.1 back plate			No.2 side shelves		
				D (mm)			D (mm)			D (mm)			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	500	700	900	500	700	900	500	700	900			
				Bars side			Exits side			Bars side			Exits side			Bars side			Exits side			Bars side			Exits side					

Front/Rear terminals		Front/Rear terminals		Front/Rear terminals		Front/Rear terminals		Front/Rear terminals		Front/Rear terminals		Front/Rear terminals		Front/Rear terminals		Front/Rear terminals		Front/Rear terminals		Front/Rear terminals		Front/Rear terminals		Front/Rear terminals	
700	3/4 HS	F	1	PVFE6231	PSVF7016																				
	4 FS	F	1	-	-																				
	3	F-I	1	PVFE6231	PSVF7016																				
	4 HS/FS	F-I	1	-	-																				
	3	W	1	PVFE6230	PSVW7016																				
	4 HS/FS	W	1	-	-																				
	3	W-I	1	PVFE6230	PSVW7016																				
	4 HS/FS	W-I	1	-	-																				

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

**OT**  
**HORIZONTAL INSTALLATION**

Cell height (mm)	Switch	No. of poles	Execution	Accessory	No. of switches per cell	Handle maximum length (mm)	Shaft minimum length (mm)	Lever position	W=600mm				W=800mm			
									Base kit (segregation form 1)	High terminals covers	Segregation form		Base kit (segregation form 1)	High terminals covers	Segregation form	
											Cell side closing	Universal horizontal shelf			Cell side closing	Universal horizontal shelf
<b>Attacchi Front</b>																
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 <sup>(1)</sup>	RHE	1	175 (Ø12)	170 (Ø12)	E12-E22	PKOH1060	NO			PKOH1080	SI	PPVS2600	PSHS1908
	OT1250	3/4	F <sup>(1)</sup>	RHE	1	175 (Ø12)	170 (Ø12)	E12-E22	PKOH1060	NO			PKOH1080	SI	PPVS2600	PSHS1908
	OT1600	3/4	F <sup>(1)</sup>	RHE	1	175 (Ø12)	170 (Ø12)	E12-E22	PKOH1060	NO			PKOH1080	SI	PPVS2600	PSHS1908

**VERTICAL INSTALLATION**

Cell height (mm)	Switch	No. of poles	Execution	Accessory	No. of switches per cell	Handle maximum length (mm)	Shaft minimum length (mm)	Lever position	W=600mm				W=800mm			
									Base kit (segregation form 1)	High terminals covers	Segregation form		Base kit (segregation form 1)	High terminals covers	Segregation form	
											Cell side closing	Universal horizontal shelf			Cell side closing	Universal horizontal shelf
<b>Attacchi Front</b>																
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 <sup>(1)</sup>	RHE	1	175 (Ø12)	170 (Ø12)	E12-E22	PKOV1060	SI	PPVS2600	PSHS1906	PKOV1080	SI	PPVS2600	PSHS1908
	OT1250	3/4	F <sup>(1)</sup>	RHE	1	175 (Ø12)	170 (Ø12)	E12-E22	PKOV1060	SI	PPVS2600	PSHS1906	PKOV1080	SI	PPVS2600	PSHS1908
	OT1600	3/4	F <sup>(1)</sup>	RHE	1	175 (Ø12)	170 (Ø12)	E12-E22	PKOV1060	SI	PPVS2600	PSHS1906	PKOV1080	SI	PPVS2600	PSHS1908

<sup>(1)</sup> Kit with recessed mounting plate.

\* Mandatory everytime that the breaker kits have plates distant more than 38mm or for segregations form 4b, or if are mounted other components apart from the device.

<b>Key:</b>	F & F - I	fixed and fixed interlocked	W	withdrawable
F	P	plug-in	W - I	withdrawable interlocked
F - I	P - I	plug-in interlocked	W - I-MO	withdrawable interlocked motor-operated
F - I-MO	P - I-MO	plug-in interlocked motor-operated	W - MO	withdrawable motor-operated
F - MO	P - MO	plug-in motor-operated	W - RC	withdrawable with residual current
F - RC	P - RC	plug-in with residual current	W - RHD	withdrawable with Direct Rotary Handle
F - RHD	P - RHD	plug-in with Direct Rotary Handle	W & W - I	withdrawable and withdrawable interlocked

# Internal kits

## Quick selection guides

### GUIDA DIN

#### SEGREGATION IN STRUCTURE WITH HORIZONTAL BREAKERS

Cell height (mm)	W=400mm										W=600mm				
	Panel	DIN rail kit (Segregation form 1)	Segregation form								Panel	DIN rail kit (Segregation form 1)	Segregation form		
			F 2a - 3a*				F 3b						F 2a - 3a*		
			Cell side closing Front segregations	Universal horizontal shelf	Terminals separator			Rear segregation bars side	Side rear segregation	D (mm)			Cell side closing Front segregations	Universal horizontal shelf	
					D (mm)	500	700			900					D (mm)
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

Cell height (mm)	W=400mm										W=600mm				
	Panel	DIN rail kit (Segregation form 1)	Segregation form								Panel	DIN rail kit (Segregation form 1)	Segregation form		
			F 2a - 3a*				F 3b						F 2a - 3a*		
			Cell side closing Front segregations	Universal horizontal shelf	Vertical rear segregation			Vertical side segregation					Cell side closing Front segregations	Universal horizontal shelf	
					Without upright	With upright		D (mm)							
Bars side	Exits side	500	700	900	500	700	900	500	700	900					
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			Panel	DIN rail kit (Segregation form 1)	Cell side closing Front segregations	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	500	700	900				
									PPMF1580	PDRS0800											
PSVS2050	PSVS2070	PSVS2090	PRVS2061	PLVS2052	PLVS2072	PLVS2092			PPMF2080	PDRS0800	PPDS0200 + PFSV2082	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			Panel	DIN rail kit (Segregation form 1)	Cell side closing Front segregations	Universal horizontal shelf	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	500	700	900	500	700	900	500	700	900	500	700	900					
									PPMF1580	PDRS0800									
PRVS2060	PRVS2061	PRVS2062	PLVS2052	PLVS2072	PLVS2092				PPMF2080	PDRS0800	PPDS0200 + PFSV2082	PSHS1908	PRVS2080	PRVS2081	PRVS2082	PLVS2052	PLVS2072	PLVS2092	
									PPMU3080	PDRS0800									
									PPMF3080	2xPDRS0800									
									PPMD3080	PDRS0800									

- Key:**
- 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	D (mm)	500	700	900	Rear segregation bars side	Side rear segregation	D (mm)	500	700	900	Plate (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	Plate (Segregation form 1)	Cell side closing	Universal horizontal shelf	Terminals separator	D (mm)	500	700	900			
150	PPMB1540		PSHS1904											PPMB1560	2XPPRS0150	PSHS1906												PPMB1580	2XPPRS0150	PSHS1908									
200	PPMB2040	PPVS2200	PSHS1904	PSVS2050				PRVS2041	PLVS2052	PLVS2072				PPMB2060	PPVS2200	PSHS1906	PSVS2050	PSVS2070	PSVS2090									PPMB2080	PPVS2200	PSHS1908	PSVS2050	PSVS2070	PSVS2090						
250	PPMB2540	PPVS2250	PSHS1904	PSVS2550	PSVS2570	PSVS2590		PRVS2541	PLVS2552	PLVS2572	PLVS2592			PPMB2560	PPVS2250	PSHS1906	PSVS2550	PSVS2570	PSVS2590									PPMB2580	PPVS2250	PSHS1908	PSVS2550	PSVS2570	PSVS2590						
300	PPMB3040	PPVS2300	PSHS1904	PSVS3050	PSVS3070	PSVS3090		PRVS3041	PLVS3052	PLVS3072	PLVS3092			PPMB3060	PPVS2300	PSHS1906	PSVS3050	PSVS3070	PSVS3090									PPMB3080	PPVS2300	PSHS1908	PSVS3050	PSVS3070	PSVS3090						
350																																							
400	PPMB4040	PPVS2400	PSHS1904	PSVS4050	PSVS4070	PSVS4090		PRVS4041	PLVS4052	PLVS4072	PLVS4092			PPMB4060	PPVS2400	PSHS1906	PSVS4050	PSVS4070	PSVS4090									PPMB4080	PPVS2400	PSHS1908	PSVS4050	PSVS4070	PSVS4090						
500	PPBM5004	PPVS2500	PSHS1904	PSVS5050	PSVS5070	PSVS5090		PRVS5041	PLVS5052	PLVS5072	PLVS5092			PPBM5006	PPVS2500	PSHS1906	PSVS5050	PSVS5070	PSVS5090									PPBM5008	PPVS2500	PSHS1908	PSVS5050	PSVS5070	PSVS5090						
600	PPMB6040	PPVS2600	PSHS1904	PSVS6050	PSVS6070	PSVS6090		PRVS6041	PLVS6052	PLVS6072	PLVS6092			PPMB6060	PPVS2600	PSHS1906	PSVS6050	PSVS6070	PSVS6090									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)						
		500	700	900				500	700	900		500	700	900				500	700	900		500	700	900
PRVS6081	PRVS6052	PLVS6072	PLVS6092	PPMB6010	PPVS2600	PSHS1901	PSVS6050	PSVS6070	PSVS6090		PLVS6052	PLVS6072	PLVS6092											
PRVS5081	PLVS5052	PLVS5072	PLVS5092	PPBM5001	PPVS2500	PSHS1901	PSVS5050	PSVS5070	PSVS5090		PLVS5052	PLVS5072	PLVS5092											
PRVS4081	PLVS4052	PLVS4072	PLVS4092	PPMB4010	PPVS2400	PSHS1901	PSVS4050	PSVS4070	PSVS4090		PLVS4052	PLVS4072	PLVS4092											
PRVS3081	PLVS3052	PLVS3072	PLVS3092	PPMB3010	PPVS2300	PSHS1901	PSVS3050	PSVS3070	PSVS3090		PLVS3052	PLVS3072	PLVS3092											
PRVS2581	PLVS2552	PLVS2572	PLVS2592																					
PRVS2081	PLVS2052	PLVS2072	PLVS2092	PPMB2010	PPVS2200	PSHS1901	PSVS2050	PSVS2070	PSVS2090		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

### Blind mounting plate VERTICAL 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*					
	Plate (Segregation form 1)	Cell side closing	Universal horizontal shelf	Vertical rear segregation			Vertical side segregation			Plate (Segregation form 1)	Cell side closing	Ripiano universale orizzontale	Vertical rear segregation			Vertical side segregation			Plate (Segregation form 1)	Cell side closing	Universal horizontal shelf
				With upright			D (mm)						With upright			D (mm)					
			Without upright	Bars side	Exits side	500	700	900				Without upright	Bars side	Exits side	500	700	900				
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.





# Internal kits

## Quick selection guides

### Blind cell for segregation HORIZONTAL SEGREGATION

Cell height (mm)	W=400mm										W=600mm									
	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)			Cell (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	
50	PCBS040	PSHS1904	PPBS0050								PCBS060	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			Rear segregation bars side			Side rear segregation		Cell (Segregation form 2a)		Universal horizontal shelf			Side shelf			Terminals separator			Rear segregation bars side			Side rear segregation																										
		D (mm)			D (mm)			D (mm)			D (mm)					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			500 700 900			500 700 900			500 700 900			500 700 900																												
PCBS080	PCBS3080	PSHS1908	PPBS0300	PSVS3050	PSVS3070	PSVS3090	PRVS3081	PLVS3052	PLVS3072	PLVS3092	PCBS3010	PSHS1901	PPBS0300	PSVS3050	PSVS3070	PSVS3090		PLVS3052	PLVS3072	PLVS3092	PCBS2010	PSHS1901	PPBS0200	PSVS2050	PSVS2070	PSVS2090		PLVS2052	PLVS2072	PLVS2092	PCBS2510	PSHS1901	PPBS0250	PSVS2550	PSVS2570	PSVS2590		PLVS2552	PLVS2572	PLVS2592	PCBS1510	PSHS1901	PPBS0150	PSHS1908	PPBS0100	PPBS0050	PCBS1080	PCBS5080	PSHS1908	PPBS0100	PPBS0050	PCBS1580	PCBS2080	PCBS2580	PCBS1080	PCBS5080

**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												
	Segregation form					Segregation form												
	F 3a*		F 3b			F 3a*		F 3b										
	Cell (Segregation form 2a)	Universal horizontal shelf	Side shelf	Vertical rear segregation		Vertical side segregation			Cell (Segregation form 2a)	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			PLVS3062	PLVS3072	PLVS3092	PCBS3060	PSHS1906	PPBS0300	PRVS3061	PRVS3062	PRVS3060	PLVS3062	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	Vertical rear segregation					Vertical side segregation					Cell (Segregation form 2a)	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				Bars side	Exits side	500	700	900	Bars side	Exits side	500	700	900
PCBS080	PSHS1908	PPBS0050	PRVS0581	PRVS0582	PRVS0580	PLVS0552	PLVS0572	PLVS0592				PCBS010	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 - 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 - 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 - 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

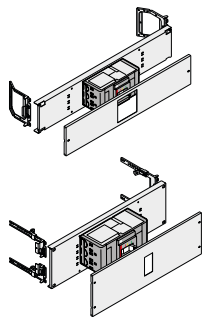
### Quick selection guides

#### 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

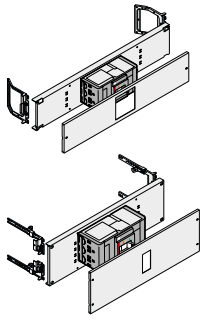
Direct Rotary Handle only in non-segregated structures. Order the dedicated fixed frame PFPF.... or swing frame PFPS.... for assembling internal panels. For D=300mm structures, consult the details on page 3/XX.

#### NON-ACCESSORIZED CIRCUIT-BREAKERS



Front or rear CB connections	No. poles	Dimensions (mm)		No. CB per compart.			
		H	W		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 <sup>(1)</sup>
	3P 4P	200	600	1	PHCX2401	PHCX2407	PHCX2310 <sup>(1)</sup>
	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 <sup>(2)</sup>		
	3P	150	600	1	PHCX3301		
	3P 4P	200	400	1	PHBX3401 <sup>(2)</sup>	PHBX3407	
	3P 4P	200	600	1	PHCX3401	PHCX3407	
	3P 4P	200	800	1	PHDX3401	PHDX3407	
XT4	3P	150	400	1	PHBX4301 <sup>(2)</sup>		
	3P	150	600	1	PHCX4301		
	3P 4P	200	400	1	PHBX4401 <sup>(2)</sup>	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 <sup>(2)</sup>		
	3P	200	600	1	PHCX5320		
	3P	200	800	1	PHDX5320		
	3P 4P	250	400	1	PHBX5420 <sup>(2)</sup>		
	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	
	3P 4P	350	600	1			PHCX5424
	3P 4P	350	800	1			PHDX5424
XT6	3P	300	600	1	PHCX6301 <sup>(3)</sup>		
	3P	300	800	1	PHDX6301		
	3P 4P	350	600	1	PHCX6401 <sup>(3)</sup>		PHCX6314 <sup>(1)</sup> ■
	3P 4P	350	800	1	PHDX6401 <sup>(3)</sup>		PHDX6314 <sup>(1)</sup> ■
	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)		No. CB per compart.	FIXED	PLUG-IN	WITHDRAWABLE
		H	W				
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	400	600	1	PHGT7418		
	3P 4P	500	600	1			PHGT7430**
	3P 4P	500	800	1	PHIT7418		PHIT7430**

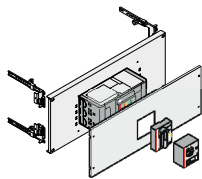
\* Front terminals, only Form 1

\*\* Only rear terminals

<sup>(1)</sup> Only 3 poles.<sup>(2)</sup> Not compatible with high terminal covers.<sup>(3)</sup> XT6 1000A front terminals in width 800mm.

■ Front terminals, only Form 1

## ACCESSORIZED CIRCUIT-BREAKERS



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

<sup>(1)</sup> Only 3 poles.<sup>(2)</sup> Only 4 poles.<sup>(3)</sup> 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.

<sup>(4)</sup> Not compatible with high terminal covers.<sup>(5)</sup> 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.

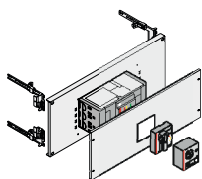
## Internal kits

### 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.

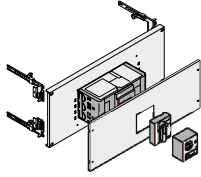


#### ACCESSORIZED CIRCUIT-BREAKERS

Front or rear CB connections	No. poles	Dimensions (mm)		No. CB per compart.	Residual current device	Direct Rotary Handle	Motor operator	Interlocked	Interlocked motor-operated
		H	W						
XT5 400A	4P	250	600	1	PHCX5423				
	4P	250	800	1	PHDX5423				
XT5 400/630A	3P	200	400	1		PHBX5306 <sup>(3)</sup>	PHBX5304 <sup>(5)</sup>		
	3P	200	600	1		PHCX5306	PHCX5304 <sup>(5)</sup>		
	3P	200	800	1		PHDX5306	PHDX5304 <sup>(5)</sup>		
	3P 4P	250	400	1		PHBX5406 <sup>(3)</sup>	PHBX5404 <sup>(5)</sup>		
	3P 4P	250	600	1		PHCX5406	PHCX5404 <sup>(5)</sup>		
	3P 4P	250	800	1		PHDX5406	PHDX5404 <sup>(5)</sup>		
	3P 4P	600	600	2				PHCX5402	PHCX5403 <sup>(5)</sup>
	3P 4P	600	800	2				PHCX5433	
XT6	3P 4P	600	800	2					PHDX5433
	3P	300	600	1		PHCX6305 <sup>(4)</sup>	PHCX6304 <sup>(4)(5)</sup>		
	3P	300	800	1		PHDX6305	PHDX6304 <sup>(5)</sup>		
	3P 4P	350	600	1		PHCX6405	PHCX6404 <sup>(5)</sup>		
	3P 4P	350	800	1		PHDX6405	PHDX6404 <sup>(5)</sup>		
	3P 4P	700	600	2				PHCX6402	PHCX6403 <sup>(5)</sup>
XT7	3P 4P	700	800	2				PHDX6402	PHDX6403 <sup>(5)</sup>
	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	400	600	1				PHGT7418	PHGT7418
PLUG-IN	3P 4P	500	800	1				PHIT7418	PHIT7418
	3P 4P	500	800	1					
XT1	3P 4P	200	400	1		PHBX1427	PHBX1409 <sup>(5)</sup>		
	3P 4P	200	600	1		PHCX1427	PHCX1409 <sup>(5)</sup>		
	3P 4P	500	400	2				PHBX1422	PHBX1424 <sup>(5)</sup>
	3P 4P	500	600	2				PHCX1422	PHCX1424 <sup>(5)</sup>
	3P 4P	200	800	1		PHDX1427	PHDX1409 <sup>(5)</sup>		
	3P 4P	500	800	2				PHDX1422	PHDX1424
XT2	3P 4P	200	400	1		PHBX2427	PHBX2409 <sup>(5)</sup>		
	3P 4P	200	600	1		PHCX2427	PHCX2409 <sup>(5)</sup>		
	3P 4P	200	800	1		PHDX2427	PHDX2409		
	3P 4P	250	400	1	PHBX2428 <sup>(2)</sup>				
	3P 4P	500	400	2				PHBX2431 <sup>(5)</sup>	PHBX2424 <sup>(5)</sup>
	3P 4P	500	600	2				PHCX2431 <sup>(5)</sup>	PHCX2424 <sup>(5)</sup>
XT3	3P 4P	250	800	1	PHDX2428 <sup>(2)</sup>				
	3P 4P	200	400	1		PHBX3427	PHBX3409		
	3P 4P	200	600	1		PHCX3427	PHCX3409		
	3P 4P	500	400	2				PHBX3422	PHBX3424 <sup>(5)</sup>
	3P 4P	500	600	2				PHCX3422	PHCX3424 <sup>(5)</sup>
3P 4P	200	800	1		PHDX3427	PHDX3409			



ACCESSORIZED CIRCUIT-BREAKERS



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

<sup>(1)</sup> Only 3 poles.

<sup>(2)</sup> Only 4 poles.

<sup>(3)</sup> 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.

<sup>(4)</sup> Not compatible with high terminal covers.

<sup>(5)</sup> 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.

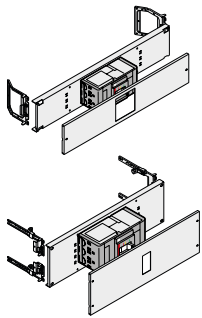
## Internal kits

### 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)		No. CB per compart.	FIXED	PLUG-IN	WITHDRAWABLE	
		H	W					
<b>T4</b>	3P	150	400	1	PHBT4301 <sup>(2)</sup>			
	3P	150	600	1	PHCT4301			
	3P 4P	200	400	1	PHBT4406 <sup>(2)</sup>			
	3P 4P	200	600	1	PHCT4406			
<b>T5</b>	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 <sup>(2)</sup>		
		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 <sup>(2)</sup>			
	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 ■	
<b>T6</b>	3P	300	600	1	PHCT6301 <sup>(3)</sup>			
	3P	300	800	1	PHDT6301			
	3P 4P	350	600	1	PHCT6401 <sup>(3)</sup>		PHCT6314 <sup>(1)</sup> ■	
	3P 4P	350	800	1	PHDT6401 <sup>(3)</sup>		PHDT6314 <sup>(1)</sup> ■	
	3P 4P	500	600	1			PHCT6410 ■	
	3P 4P	500	800	1			PHDT6414 ■	
<b>T7</b>	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 *	

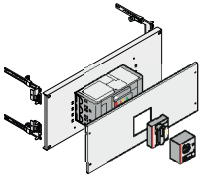
<sup>(1)</sup> Only 3 poles

<sup>(2)</sup> Not compatible with high terminal covers.

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

<sup>(1)</sup> Only 3 poles<sup>(2)</sup> Only 4 poles<sup>(3)</sup> Not compatible with high terminal covers.<sup>(4)</sup> T6 1000A front terminals in width 800mm.<sup>(5)</sup> Kit with recessed mounting plate. Only rear terminals.

■ Front terminals, only Form 1

\* Only rear terminals

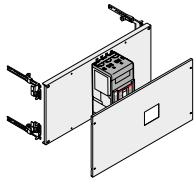
## Internal kits

### Quick selection guides

#### Tmax XT vertical installation

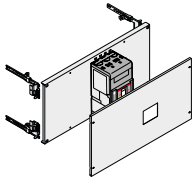
To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Intermediate up-rights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with

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)		No. CB per compart.			
		H	W		FIXED	PLUG-IN	WITHDRAWABLE
XT1	3P 4P	300	400	1	PVBX1401	PVBX1407	
	3P 4P	300	600	1	PVCX1401	PVCX1407	
	3P	300	600	4	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	
XT4	3P 4P	300	800	3		PVDX3707	
	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 <sup>(1)</sup>		
	3P 4P	350	800	3	PVDX5813 <sup>(1)</sup>		
XT5 630A <sup>(1)</sup>	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 <sup>(1)</sup>	
	3P	450	600	1			PVCX5432
	3P	450	800	1			PVDX5431
	3P	450	1000	1			PVFX5413
	3P	450	800	2			PVDX5432
	3P	450	1000	2			PVFX5414
	3P 4P	350	600	2			PVCX5431
	3P	450	1000	3			PVFX5414



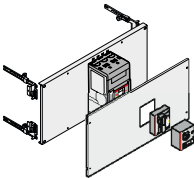
## NON-ACCESSORIZED CIRCUIT-BREAKERS

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

\*only IP3x without door

<sup>(1)</sup> 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)		No. CB per compart.	Residual current device	Direct Rotary Handle	Motor operator	Interlocked	Interlocked motor-operated
		H	W						
<b>FIXED</b>									
XT1	3P 4P	300	400	1	PVBX1423 <sup>(1)</sup>	PVBX1405	PVBX1404		
	3P 4P	300	600	1	PVCX1423 <sup>(1)</sup>	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 <sup>(3)</sup>		
	3P 4P	350	600	1		PVCX5406	PVCX5404 <sup>(3)</sup>		
	3P 4P	350	800	1		PVDX5406	PVDX5404 <sup>(3)</sup>		
XT6	3P 4P	400	600	1		PVCX6405	PVCX6404 <sup>(3)</sup>		
	3P 4P	400	800	1		PVDX6405	PVDX6404 <sup>(3)</sup>		
XT7	3P 4P	450	400	1			PVBE1241		
	3P 4P	450	600	1			PVCE1241	PVGT7419	PVCE1241
	3P 4P	450	800	1			PVDE1241	PVIT7419	PVDE1241
<b>PLUG-IN</b>									
XT1	3P 4P	300	400	1		PVBX1427	PVBX1409 <sup>(3)</sup>		
	3P 4P	300	600	1		PVCX1427	PVCX1409 <sup>(3)</sup>		
XT2	3P 4P	300	400	1		PVBX2427	PVBX2409 <sup>(3)</sup>		
	3P 4P	300	600	1		PVCX2427	PVCX2409 <sup>(3)</sup>		
XT3	3P 4P	300	400	1		PVBX3427	PVBX3409 <sup>(3)</sup>		
	3P 4P	300	600	1		PVCX3427	PVCX3409 <sup>(3)</sup>		

<sup>(1)</sup> Only 4 poles.

<sup>(2)</sup> Compatible residual current devices: RC Inst. XT1-XT3, RC Sel.

<sup>(3)</sup> 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)		No. CB per compart.	Residual current device	Direct Rotary Handle	Motor operator	Interlocked	Interlocked motor-operated
		H	W						
<b>XT4</b>	3P 4P	350	400	1		PVBX4427	PVBX4409 <sup>(3)</sup>		
	3P 4P	350	600	1		PVCX4427	PVCX4409 <sup>(3)</sup>		
<b>XT5</b> 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				
<b>XT5</b> 630A	3P	450	600	1		PVCX5326 <sup>(1)</sup>			
	3P 4P	400	400	1			PVBX5409 <sup>(2)</sup>		
	3P 4P	400	600	1		PVCX5407	PVCX5409 <sup>(2)</sup>		
	3P 4P	400	800	1		PVDX5407	PVDX5409 <sup>(2)</sup>		
<b>WITHDRAWABLE</b>									
<b>XT2</b>	3P 4P	300	400	1		PVBX2400	PVBX2412 <sup>(3)</sup>		
	3P 4P	300	600	1		PVCX2400	PVCX2412 <sup>(3)</sup>		
	4P	350	400	1	PVBX2417				
	4P	350	600	1	PVCX2417				
<b>XT4</b>	3P 4P	350	400	1		PVBX4400	PVBX4412 <sup>(3)</sup>		
	3P 4P	350	600	1		PVCX4400	PVCX4412 <sup>(3)</sup>		
	4P	400	400	1	PVBX4417				
	4P	400	600	1	PVCX4417				
<b>XT5</b> 400A	3P 4P	350	800	2			PVDX5612 <sup>(3)</sup>		
	3P 4P	350	400	1		PVBX5414	PVBX5412 <sup>(3)</sup>		
	3P 4P	350	600	1		PVCX5414	PVCX5412 <sup>(3)</sup>		
	3P 4P	350	800	1		PVDX5414	PVDX5412 <sup>(3)</sup>		
<b>XT5</b> 400/630A	3P	350	1000	4			PVFX5812		
	3P 4P	350	1000	3			PVFX5712		
<b>XT5</b> 630A	3P 4P	400	600	1			PVCX5430 <sup>(2)(3)</sup>		
	3P 4P	400	800	1			PVDX5430 <sup>(2)(3)</sup>		
<b>XT6</b>	3P 4P	450	600	1		PVCX6415 <sup>■</sup>	PVCX6412 <sup>(3)■</sup>		
	3P 4P	450	800	1		PVDX6415 <sup>■</sup>	PVDX6412 <sup>(3)■</sup>		
	3P 4P	450	1000	2		PVFX6615 <sup>■</sup>	PVFX6612 <sup>■</sup>		
<b>XT7</b>	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

<sup>(1)</sup> Only 4 poles.

<sup>(2)</sup> Compatible residual current devices: RC Inst. XT1-XT3, RC Sel.

<sup>(3)</sup> Kit with recessed mounting plate. Only rear terminals.

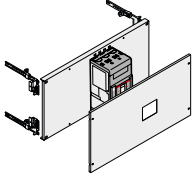
XT1-XT3 and RC Sel..XT2-XT4 Type A. For XT1-XT3 fixed with residual current device high terminal covers are not available.

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 Dir-

ect 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)		No. CB per compart.				
		H	W		FIXED	PLUG-IN	WITHDRAWABLE	
<b>T4</b>	3P 4P	350	400	1	PVBT4406			
	3P 4P	350	600	1	PVCT4406			
<b>T5</b>	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			
630A <sup>(1)</sup>	3P 4P	400	600	1		PVCT5407(2)		
	3P 4P	400	800	1		PVDT5407(2)		
	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		
	<b>T6</b>	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 <sup>■</sup>	
3P 4P		450	800	1			PVDT6414 <sup>■</sup>	
<b>T7</b>	3P 4P	450	1000	2			PVFT6610 <sup>■</sup>	
	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 *	

<sup>(1)</sup> Only front terminals not segregated.

<sup>(2)</sup> Only 630A.

<sup>(3)</sup> Kit with recessed mounting plate. Only rear terminals.

<sup>■</sup> Front terminals, only Form 1

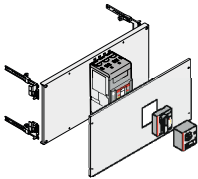
## Internal kits

### 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 Dir-

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

<sup>(1)</sup> Kit with recessed mounting plate. Only rear terminals.

<sup>(2)</sup> Compatible residual current devices: RC222 for T4 and T5.

■ Front terminals, only Form 1

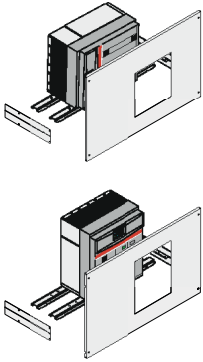
\* Only rear terminals



**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)		FIXED	WITHDRAWABLE
		H	W		
<b>Front or rear connections, horizontal installation</b>					
<b>E1.2</b>	3P 4P	400	600	PHCE1241	
	3P 4P	400	800	PHDE1241	
	3P 4P	500	600		PHCE1240 *
	3P 4P	500	800		PHDE1240 *
<b>Front or rear connections, vertical installation</b>					
<b>E1.2</b>	3P 4P	450	400	PVBE1241	
	3P 4P	450	600	PVCE1241	
	3P 4P	450	800	PVDE1241	
	3P 4P	450	800	PVDE1262 <sup>(1)</sup>	
	3P 4P	500	600		PVCE1240 *
	3P 4P	500	800		PVDE1240 *
	3P 4P	500	1000		PVFE1263 <sup>(1)</sup> *
<b>Rear connections, vertical installation</b>					
<b>E2.2</b>	3P 4P	600	600	PVCE2441	PVCE2450
	3P 4P	600	800	PVDE2441	PVDE2440
<b>E4.2</b>	3P 4P	600	600	PVCE2442	PVCE4350 <sup>(2)</sup>
	3P 4P	600	800	PVDE2441	PVDE2440
<b>E6.2</b>	3P	700	1000		PVFE6230
<b>E6.2</b>	Neutral 50% 3P 4P	700	1000	PVFE6231	
<b>E6.2</b>	Neutral 50/100% 4P	700	1250		PVGE6230
<b>E6.2</b>	Neutral 50/100% 4P	700	1250	PVGE6231	

**ACCESSORIZED CIRCUIT-BREAKERS**

Front or rear CB connections	No. poles	Dimensions (mm)		FIXED INTERLOCKED	WITHDRAWABLE INTERLOCKED
		H	W		
<b>Front or rear connections, horizontal installation</b>					
<b>E1.2</b>	3P 4P	400	600	PHCE1241	
	3P 4P	400	800	PHDE1241	
	3P 4P	500	600		PHCE1240
	3P 4P	500	800		PHDE1240
<b>Front or rear connections, vertical installation</b>					
<b>E1.2</b>	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 *
<b>Rear connections, vertical installation</b>					
<b>E2.2</b>	3P 4P	600	600	PVCE2441	PVCE2450
	3P 4P	600	800	PVDE2441	PVDE2440
<b>E4.2</b>	3P	600	600		PVCE4350
	3P 4P	600	800	PVDE2441	PVDE2440
<b>E6.2</b>	3P	700	1000	PVFE6231	PVFE6230
<b>E6.2</b>	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.

<sup>(1)</sup> Kit for 2 adjacent circuit-breakers.

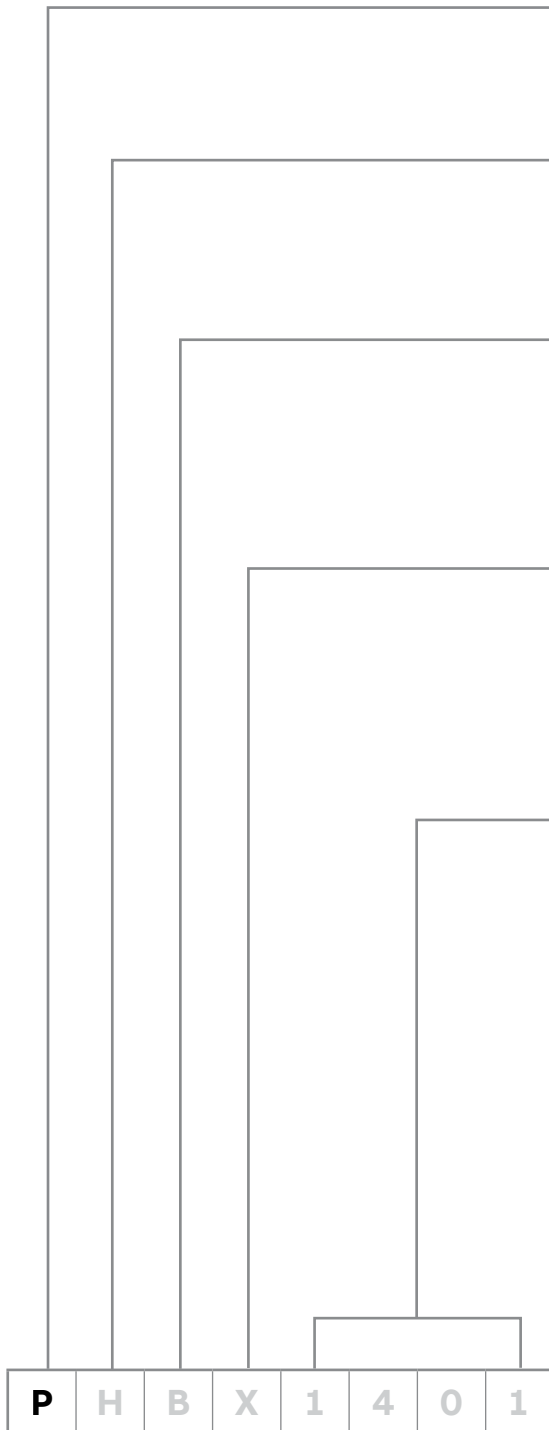
<sup>(2)</sup> Only 3 poles.

\* 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

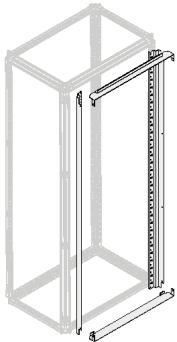
**Emax 2**

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

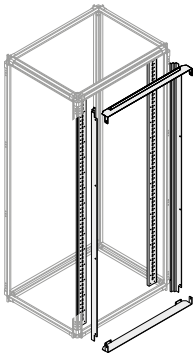
## Order codes - Internal kits



### 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)		Type	Order code	Pkg/No. pcs
	H	W			
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

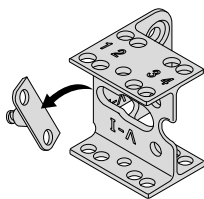


### Special fixed frame for panels

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.

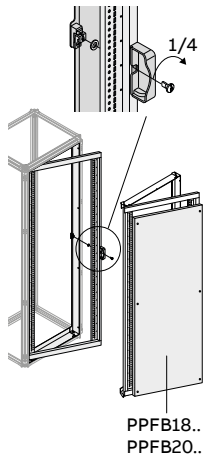
Description	Dimensions (mm)		Type	Order code	Pkg/No. pcs
	H	W			
Special fixed frame for panels	1800	400	PFFA1840	1STQ001889B0000	1/1
Special fixed frame for panels	1800	600	PFFA1860	1STQ001890B0000	1/1
Special fixed frame for panels	1800	800	PFFA1880	1STQ001891B0000	1/1
Special fixed frame for panels	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.



## Internal kits

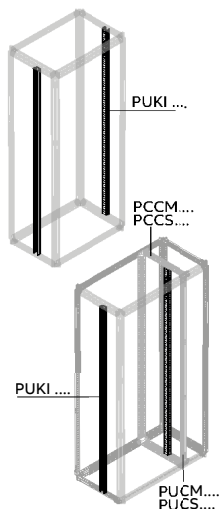
Order codes - Internal kits



### 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.

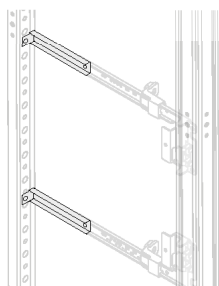
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
Swing frame for panels	1800	400	PFPS1840	1STQ007459A0000	1/1
Swing frame for panels	1800	600	PFPS1860	1STQ007460A0000	1/1
Swing frame for panels	1800	800	PFPS1880	1STQ007461A0000	1/1
Swing frame for panels	2000	400	PFPS2040	1STQ007462A0000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

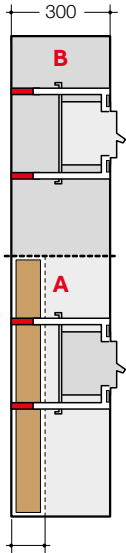
The extension kit can be used for the following applications:

- 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

## Internal kits

Order codes - Internal kits



150mm  
Maximum encumbrance

### Circuit-breakers and busbars that can be installed in D=300mm structures

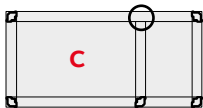
Only use extension kit PKE0004 with circuit-breakers with terminals with Front connections.

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									

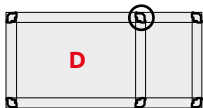
**Key**

- 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.

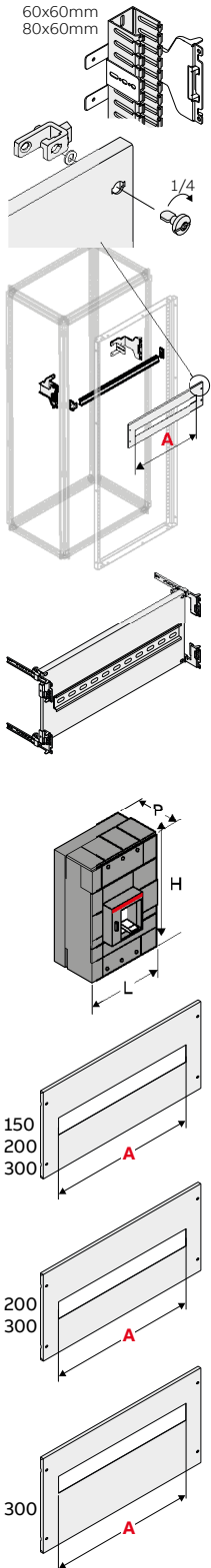
Circuit-breaker version	XT1	XT2	XT3	XT4	T4	XT5/T5	XT6/T6	XT7/T7	E1.1
Fixed	■	■	■	■	■	■	■	●	●
Fixed with Direct Rotary Handle (RHD)	■	●	■	●	●	●	●	●	
Fixed with motor operator (MO)	●	●	●	●	●	●	●	●	
Fixed interlocked	●	●	●	●	●	●	●	●	●
Fixed interlocked motor-operated								●	●
Plug-in	●	●	●	●	●	●			
Plug-in 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)		Tipo	Codice d'ordine	Conf./ N°pezzi
	W	H			
<b>Standard DIN rail</b>					
Standard DIN rail	400		PDRS0400	1STQ008041A0000	1/1
Standard DIN rail	600		PDRS0600	1STQ008042A0000	1/1
Standard DIN rail	800		PDRS0800	1STQ008043A0000	1/1
<b>Pre-assembled DIN rail</b>					
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)		Tipo	Codice d'ordine	Conf./ N°pezzi
	H	W			
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

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

Tmax XT1 fixed + RC sel 200

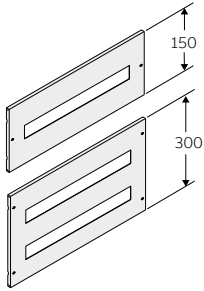
No. poles	Circuit breaker dimensions			12 mod.DIN		24 mod.DIN		36 mod.DIN	
	W	H	D	Panel hole A (mm)	Max. number of circuit breakers per row	Panel hole A (mm)	Max. number of circuit breakers per row	Panel hole A (mm)	Max. number of circuit breakers per row
	XT1								
4	153,2	130	70	250	1	450	2	650	4

Tmax XT1 e XT3 fixed + Rc Inst/Rc sel

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

## Internal kits

Order codes - Internal kits



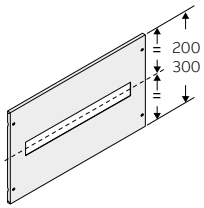
XT1 3/4P F

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)		Type	Order code	Pkg/ No. pcs
	H	W			
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

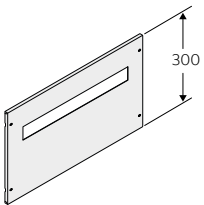
XT1 4P RC Sel 200/  
RC Sel

### Panels for System Pro-M modular circuit-breakers and Tmax XT1 and Tmax XT3 moulded-case circuit-breakers not accessoried or with differential module side RC sel 200<sup>(1)</sup>

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

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
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

<sup>(1)</sup> 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 under-place RC <sup>(1)</sup>

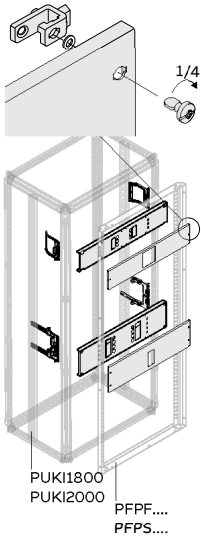
Panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
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

<sup>(1)</sup> 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
<b>12 DIN modules - W=400mm</b>							
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 <sup>(1)</sup>	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 <sup>(1)</sup>	1STQ008411A0000	1/1
XT1	3/4	P - I	500	2	PHBX1422	1STQ008410A0000	1/1
XT1	3/4	P - I - MO	500	2	PHBX1424 <sup>(1)</sup>	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 <sup>(1)</sup>	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	1STQ007799A0000	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	1STQ008415A0000	1/1
XT2	3/4	P - I	500	2	PHBX2431 <sup>(1)</sup>	1STQ008413A0000	1/1
XT2	3/4	P - I - MO	500	2	PHBX2424 <sup>(1)</sup>	1STQ008415A0000	1/1
XT2	3/4	W - I	500	2	PHBX2425 <sup>(1)</sup>	1STQ008414A0000	1/1
XT2	3/4	W - I - MO	500	2	PHBX2425 <sup>(1)</sup>	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 <sup>(1)</sup>	1STQ008418A0000	1/1

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

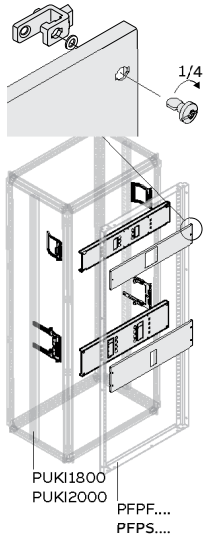
<sup>(1)</sup> Kit with recessed mountin plate. Only rear terminals.

\* Not compatible with high terminal covers.



## 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
<b>12 DIN modules - W=400mm</b>							
XT3	3/4	P - I	500	2	PHBX3422	1STQ008417A0000	1/1
XT3	3/4	P - I-MO	500	2	PHBX3424 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	1STQ008422A0000	1/1
XT4	3/4	P - I	500	2	PHBX4431 <sup>(1)</sup>	1STQ008420A0000	1/1
XT4	3/4	P - I-MO	500	2	PHBX4424 <sup>(1)</sup>	1STQ008422A0000	1/1
XT4	3/4	W - I	500	2	PHBX4425 <sup>(1)</sup>	1STQ008421A0000	1/1
XT4	3/4	W - I-MO	500	2	PHBX4425 <sup>(1)</sup>	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.

<sup>(1)</sup> 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.

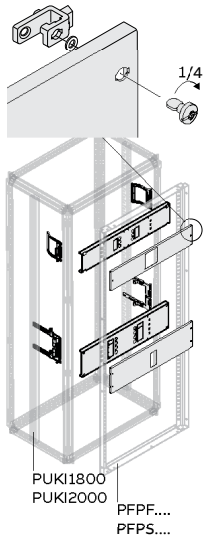
##### Tmax T

RC222 for T4 and T5.

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

## 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
<b>12 DIN modules - W=400mm</b>							
XT5 <b>NEW</b>	3	F - RHD 400/630A	200	1	PHBX5306*	1STQ007071B0000	1/1
XT5 <b>NEW</b>	3	F - 400/630A	200	1	PHBX5329*	1STQ007616B0000	1/1
XT5 <b>NEW</b>	3/4	F - RHD 400/630A	250	1	PHBX5406*	1STQ007074B0000	1/1
XT5 <b>NEW</b>	3/4	F - 400/630A	250	1	PHBX5420*	1STQ007618B0000	1/1
XT5 <b>NEW</b>	3	F - MO 400/630A	200	1	PHBX5304 <sup>(1)</sup>	1STQ007079B0000	1/1
XT5 <b>NEW</b>	3/4	F - MO 400/630A	250	1	PHBX5404 <sup>(1)</sup>	1STQ007082B0000	1/1
XT5 <b>NEW</b>	3	P - RHD 400A	200	1	PHBX5326	1STQ007087B0000	1/1
XT5 <b>NEW</b>	3	P - 400A	200	1	PHBX5307	1STQ007617B0000	1/1
XT5 <b>NEW</b>	3/4	P - RHD 400A	250	1	PHBX5426	1STQ007090B0000	1/1
XT5 <b>NEW</b>	3/4	P - 400A	250	1	PHBX5427	1STQ007619B0000	1/1
XT5 <b>NEW</b>	3	P - MO 400A	200	1	PHBX5309 <sup>(1)</sup>	1STQ007096B0000	1/1
XT5 <b>NEW</b>	3/4	P - MO 400A	250	1	PHBX5409 <sup>(1)</sup>	1STQ007099B0000	1/1
XT5 <b>NEW</b>	3	W - RHD 400A	300	1	PHBX5314	1STQ007108B0000	1/1
XT5 <b>NEW</b>	3/4	W - RHD 400A	350	1	PHBX5414	1STQ007111B0000	1/1
XT5 <b>NEW</b>	3	W - MO 400A	300	1	PHBX5312 <sup>(1)</sup>	1STQ007115B0000	1/1
XT5 <b>NEW</b>	3/4	W - MO 400A	350	1	PHBX5412 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	1STQ008409A0000	1/1
T5	3/4	W - RHD 400A	350	1	PHBT5414	1STQ007864A0000	1/1

\* Not compatible with high terminal covers.

<sup>(1)</sup> Kit with recessed mounting plate. Only rear terminals.

## Internal kits

### Order codes - Internal kits

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
<b>24 DIN modules - W=600mm</b>							
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 <sup>(1)</sup>	1STQ008433A0000	1/1
XT1	3/4	P - I	500	2	PHCX1422	1STQ008432A0000	1/1
XT1	3/4	P - I-MO	500	2	PHCX1424 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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.

<sup>(1)</sup> 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.

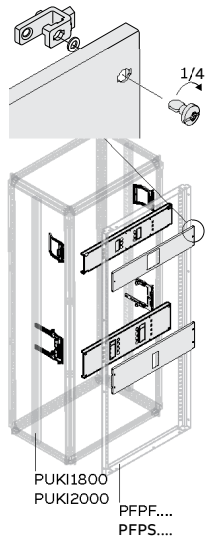
##### Tmax T

RC222 for T4 and T5.

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

## Internal kits

Order codes - Internal kits



### Kits for installation of Tmax circuit-breakers

#### HORIZONTAL INSTALLATION (front or rear connections)

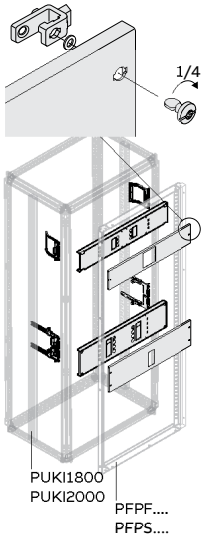
The kit includes the dedicated fixing brackets, the mounting plate and panels with 1/4 turn screws, hinged on the right or the left with the dedicated PHFP0020 kit.

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
<b>24 DIN modules - W=600mm</b>							
XT2	<b>NEW*</b> 4	P-RC	250	1	PHCX2428	1STQ006245B0000	1/1
XT2	3/4	W - MO	250	1	PHCX2412 <sup>(1)</sup>	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 <sup>(1)</sup>	1STQ008437A0000	1/1
XT2	3/4	P - I	500	2	PHCX2431 <sup>(1)</sup>	1STQ008435A0000	1/1
XT2	3/4	P - I-MO	500	2	PHCX2424 <sup>(1)</sup>	1STQ008437A0000	1/1
XT2	3/4	W - I	500	2	PHCX2425 <sup>(1)</sup>	1STQ008436A0000	1/1
XT2	3/4	W - I-MO	500	2	PHCX2425 <sup>(1)</sup>	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 <sup>(1)</sup>	1STQ008440A0000	1/1
XT3	3/4	P - I	500	2	PHCX3422	1STQ008439A0000	1/1
XT3	3/4	P - I-MO	500	2	PHCX3424 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	1STQ008444A0000	1/1
XT4	3/4	P - I	500	2	PHCX4431 <sup>(1)</sup>	1STQ008442A0000	1/1
XT4	3/4	P - I-MO	500	2	PHCX4424 <sup>(1)</sup>	1STQ008444A0000	1/1
XT4	3/4	W - I	500	2	PHCX4425 <sup>(1)</sup>	1STQ008443A0000	1/1
XT4	3/4	W - I-MO	500	2	PHCX4425 <sup>(1)</sup>	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
<b>24 DIN modules - W=600mm</b>							
XT4 <b>NEW</b>	4	P-RC	250	1	PHCX4428	1STQ006246B0000	1/1
XT4	4	W-RC	250	1	PHCX4417	1STQ007840A0000	1/1
XT5 <b>NEW</b>	3	F-RHD 400/630A	200	1	PHCX5306	1STQ007072B0000	1/1
XT5 <b>NEW</b>	3	F-400/630A	200	1	PHCX5320	1STQ007620B0000	1/1
XT5 <b>NEW</b>	3/4	F-RHD 400/630A	250	1	PHCX5406	1STQ007075B0000	1/1
XT5 <b>NEW</b>	3/4	F-400/630A	250	1	PHCX5420	1STQ007622B0000	1/1
XT5 <b>NEW</b>	4	F-RC 400A	250	1	PHCX5423	1STQ007077B0000	1/1
XT5 <b>NEW</b>	3	F-MO 400/630A	200	1	PHCX5304 <sup>(1)</sup>	1STQ007080B0000	1/1
XT5 <b>NEW</b>	3/4	F-MO 400/630A	250	1	PHCX5404 <sup>(1)</sup>	1STQ007083B0000	1/1
XT5 <b>NEW</b>	3/4	F-I 400/630A	600	2	PHCX5402	1STQ007085B0000	1/1
XT5 <b>NEW</b>	3/4	F-I-MO 400/630A	600	2	PHCX5403 <sup>(1)</sup>	1STQ007086B0000	1/1
XT5 <b>NEW</b>	3	P-RHD 400A	200	1	PHCX5326	1STQ007088B0000	1/1
XT5 <b>NEW</b>	3	P-400A	200	1	PHCX5308	1STQ007621B0000	1/1
XT5 <b>NEW</b>	3/4	P-RHD 400A	250	1	PHCX5426	1STQ007091B0000	1/1
XT5 <b>NEW</b>	3/4	P-400A	250	1	PHCX5428	1STQ007624B0000	1/1
XT5 <b>NEW</b>	3	P-630A	200	1	PHCX5307*	1STQ007093B0000	1/1
XT5 <b>NEW</b>	3/4	P-630A	250	1	PHCX5407	1STQ007094B0000	1/1
XT5 <b>NEW</b>	3	P-MO 400A	200	1	PHCX5309 <sup>(1)</sup>	1STQ007097B0000	1/1
XT5 <b>NEW</b>	3/4	P-MO 400A	250	1	PHCX5409 <sup>(1)</sup>	1STQ007100B0000	1/1
XT5 <b>NEW</b>	3/4	P-MO 630A	250	1	PHCX5427 <sup>(1)</sup>	1STQ007102B0000	1/1
XT5 <b>NEW</b>	3/4	P-I 400/603A	600	2	PHCX5431 <sup>(1)</sup>	1STQ007104B0000	1/1
XT5 <b>NEW</b>	3/4	P-I-MO 400/603A	600	2	PHCX5432 <sup>(1)</sup>	1STQ007106B0000	1/1
XT5 <b>NEW</b>	3	W-RHD	300	1	PHCX5314	1STQ007109B0000	1/1
XT5 <b>NEW</b>	3/4	W-RHD 400A	350	1	PHCX5414	1STQ007112B0000	1/1
XT5 <b>NEW</b>	3	W-400A	300	1	PHCX5310*	1STQ007114B0000	1/1
XT5 <b>NEW</b>	3	W-MO 400A	300	1	PHCX5312 <sup>(1)</sup>	1STQ007116B0000	1/1
XT5 <b>NEW</b>	3/4	W-MO 400A	350	1	PHCX5412 <sup>(1)</sup>	1STQ007119B0000	1/1

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

<sup>(1)</sup> Kit with recessed mounting plate. Only rear terminals.

\*\* T6 1000A front terminals in width 800mm.

■ Front terminals, only Form 1

<sup>(1)</sup> 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:

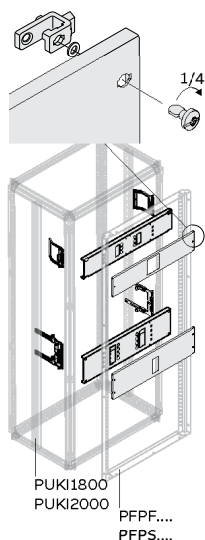
F fixed  
F - I fixed interlocked  
F - I-MO fixed interlocked motor-operated  
F - MO fixed motor-operated  
F - RC fixed with residual current  
F - RHD fixed with Direct Rotary Handle  
F & F - I fixed and fixed interlocked  
P plug-in

P - I plug-in interlocked  
P - I-MO plug-in interlocked 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

### 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
<b>24 DIN modules - W=600mm</b>							
XT5 <b>NEW</b>	3/4	W - I 400/630A	600	2	PHCX5425 <sup>(1)</sup>	1STQ007121B0000	1/1
XT5 <b>NEW</b>	3/4	W - I - MO 400/630A	600	2	PHCX5411 <sup>(1)</sup>	1STQ007123B0000	1/1
XT5 <b>NEW</b>	3/4	W	350	1	PHCX5424	1STQ008548B0000	1/1
XT6 <b>NEW</b>	3	F	300	1	PHCX6301	1STQ007924B0000	1/1
XT6 <b>NEW</b>	3	F - MO	300	1	PHCX6304 <sup>(1)</sup>	1STQ007926B0000	1/1
XT6 <b>NEW</b>	3	F - RHD	300	1	PHCX6305	1STQ007928B0000	1/1
XT6 <b>NEW</b>	3/4	F - MO	350	1	PHCX6404 <sup>(1)</sup>	1STQ007931B0000	1/1
XT6 <b>NEW</b>	3/4	F - RHD	350	1	PHCX6405	1STQ007933B0000	1/1
XT6 <b>NEW</b>	3	W - MO	350	1	PHCX6312 <sup>(1)</sup>	1STQ007935B0000	1/1
XT6 <b>NEW</b>	3	W	350	1	PHCX6314*	1STQ007937B0000	1/1
XT6 <b>NEW</b>	3/4	W	500	1	PHCX6410*	1STQ007939B0000	1/1
XT6 <b>NEW</b>	3/4	W - MO	500	1	PHCX6412 <sup>(1)</sup>	1STQ007940B0000	1/1
XT6 <b>NEW</b>	3/4	W - RHD	500	1	PHCX6400*	1STQ007942B0000	1/1
XT6 <b>NEW</b>	3/4	F - I	700	2	PHCX6402	1STQ007958B0000	1/1
XT6 <b>NEW</b>	3/4	F - I - MO	700	2	PHCX6403 <sup>(1)</sup>	1STQ007959B0000	1/1
XT6 <b>NEW</b>	3/4	W - I	700	2	PHCX6425 <sup>(1)</sup>	1STQ007960B0000	1/1
XT6 <b>NEW</b>	3/4	W - I - MO	700	2	PHCX6411 <sup>(1)</sup>	1STQ007961B0000	1/1
XT6 <b>NEW</b>	3/4	F	350	1	PHCX6401	1STQ007964B0000	1/1
XT6 <b>NEW</b>	3	W - RHD	350	1	PHCX6315*	1STQ008039B0000	1/1
XT7 <b>NEW</b>	3	F	300	1	PHGT7329	1STQ006175B0000	1/1
XT7 <b>NEW</b>	3	F - I	300	1	PHGT7329	1STQ006175B0000	1/1
XT7 <b>NEW</b>	3	F - I - MO	300	1	PHGT7329	1STQ006175B0000	1/1
XT7 <b>NEW</b>	3	F - MO	300	1	PHGT7329	1STQ006175B0000	1/1
XT7 <b>NEW</b>	3	F - RHD	300	1	PHGT7329	1STQ006175B0000	1/1
XT7 <b>NEW</b>	3/4	F	350	1	PHGT7420	1STQ006177B0000	1/1
XT7 <b>NEW</b>	3/4	F - MO	350	1	PHGT7420	1STQ006177B0000	1/1
XT7 <b>NEW</b>	3/4	F - RHD	350	1	PHGT7420	1STQ006177B0000	1/1
XT7 <b>NEW</b>	3/4	F - I	400	1	PHGT7418	1STQ006179B0000	1/1
XT7 <b>NEW</b>	3/4	F - I - MO	400	1	PHGT7418	1STQ006179B0000	1/1
XT7 <b>NEW</b>	3/4	W	500	1	PHGT7430 *	1STQ006183B0000	1/1
XT7 <b>NEW</b>	3/4	W - I	500	1	PHGT7430 *	1STQ006183B0000	1/1
XT7 <b>NEW</b>	3/4	W - I - MO	500	1	PHCE1240 *	1STQ008164A0000	1/1
XT7 <b>NEW</b>	3/4	W - MO	500	1	PHCE1240 *	1STQ008164A0000	1/1
XT7 <b>NEW</b>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	1STQ007853A0000	1/1
T5	3	F - RHD 400A/630A	200	1	PHCT5306	1STQ007851A0000	1/1

\* Only rear terminals

<sup>(1)</sup> Kit with recessed mounting plate. Only rear terminals.

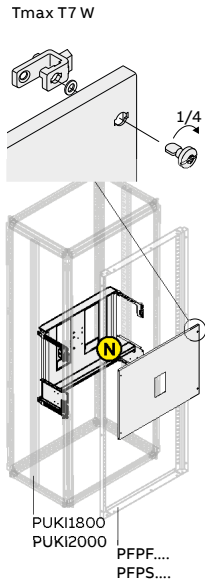
• Quick selection guides page 3-4

• 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
<b>24 DIN modules - W=600mm</b>							
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 <sup>(1)</sup>	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 <sup>(1)</sup>	1STQ008430A0000	1/1
T5	3/4	P - MO 630A	250	1	PHCT5427 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	1STQ008431A0000	1/1
T5	3/4	W - RHD 400A	350	1	PHCT5414	1STQ007865A0000	1/1
<b>T5 NEW</b>	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 <sup>(1)</sup>	1STQ008448A0000	1/1
T5	3/4	P - I 400/630A	600	2	PHCT5431 <sup>(1)</sup>	1STQ008449A0000	1/1
T5	3/4	P - I-MO 400/630A	600	2	PHCT5432 <sup>(1)</sup>	1STQ008450A0000	1/1
T5	3/4	W - I 400/630A	600	2	PHCT5425 <sup>(1)</sup>	1STQ008451A0000	1/1
T5	3/4	W - I-MO 400/630A	600	2	PHCT5411 <sup>(1)</sup>	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 <sup>(1)**</sup>	1STQ007879A0000	1/1
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 <sup>(1)</sup> ■	1STQ007889A0000	1/1

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

<sup>(1)</sup> 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 PPFS... 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		

## 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
<b>24 DIN modules - W=600mm</b>							
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 <sup>(1)</sup>	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 <sup>(1)</sup> ■	1STQ007894A0000	1/1
<b>T6 NEW</b>	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 <sup>(1)</sup>	1STQ008454A0000	1/1
T6	3/4	W - I	700	2	PHCT6425 <sup>(1)</sup> ■	1STQ008455A0000	1/1
T6	3/4	W - I - MO	700	2	PHCT6411 <sup>(1)</sup>	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

<sup>(1)</sup> Kit with recessed mounting plate. Only rear terminals.

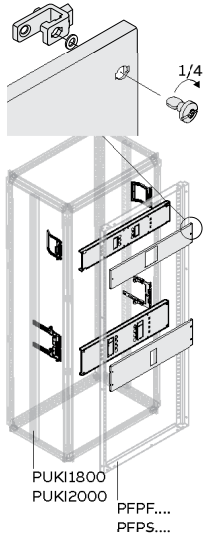
\* Only rear terminals

■ Front terminals, only Form 1



## Internal kits

### Order codes - Internal kits



Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compartment.	Type	Order code	Pkg/ No. pcs
<b>36 DIN modules - W=800mm</b>							
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 <sup>(1)</sup>	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 <sup>(1)</sup>	1STQ002431B0000	1/1
XT1	3/4	F - I	500	2	PHDX1422	1STQ002125B0000	1/1
XT1	3/4	F - I - MO	500	2	PHDX1403 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	1STQ002438B0000	1/1
XT2	3/4	W - I - MO	500	2	PHDX2425 <sup>(1)</sup>	1STQ002439B0000	1/1
XT2	3/4	F - I	500	2	PHDX2402	1STQ002127B0000	1/1
XT2	3/4	F - I - MO	500	2	PHDX2403 <sup>(1)</sup>	1STQ002128B0000	1/1
XT2	3/4	P - I	500	2	PHDX2432 <sup>(1)</sup>	1STQ002129B0000	1/1

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

<sup>(1)</sup> 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.

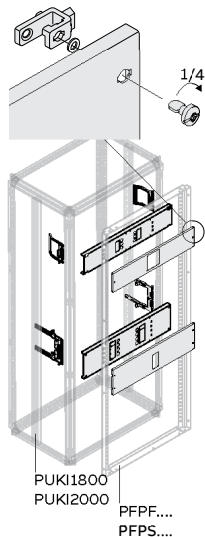
##### Tmax T

RC222 for T4 and T5.

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

## 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
<b>36 DIN modules - W=800mm</b>							
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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	1STQ002448B0000	1/1
XT4	3/4	W - I - MO	500	2	PHDX4425 <sup>(1)</sup>	1STQ002449B0000	1/1
XT4	3/4	F - I	500	2	PHDX4402	1STQ002107B0000	1/1
XT4	3/4	F - I - MO	500	2	PHDX4403 <sup>(1)</sup>	1STQ002108B0000	1/1
XT4	3/4	P - I	500	2	PHDX4422 <sup>(1)</sup>	1STQ002112B0000	1/1
XT5 <b>NEW</b>	3	F - RHD 400/630A	200	1	PHDX5306	1STQ007073B0000	1/1
XT5 <b>NEW</b>	3	F - 400/630A	200	1	PHDX5320	1STQ007626B0000	1/1
XT5 <b>NEW</b>	3/4	F - RHD 400/630A	250	1	PHDX5406	1STQ007076B0000	1/1
XT5 <b>NEW</b>	3/4	F - 400/630A	250	1	PHDX5420	1STQ007628B0000	1/1
XT5 <b>NEW</b>	4	F - RC 400A	250	1	PHDX5423	1STQ007078B0000	1/1
XT5 <b>NEW</b>	3	F - MO 400/630A	200	1	PHDX5304 <sup>(1)</sup>	1STQ007081B0000	1/1
XT5 <b>NEW</b>	3/4	F - MO 400/630A	250	1	PHDX5404 <sup>(1)</sup>	1STQ007084B0000	1/1
XT5 <b>NEW</b>	3/4	F-I	600	2	PHCX5433	1STQ008562B0000	1/1
XT5 <b>NEW</b>	3/4	F-I-MO	600	2	PHDX5433	1STQ008563B0000	1/1
XT5 <b>NEW</b>	3	P - RHD 400A	200	1	PHDX5326	1STQ007089B0000	1/1
XT5 <b>NEW</b>	3	P - 400A	200	1	PHDX5307	1STQ007627B0000	1/1
XT5 <b>NEW</b>	3/4	P - RHD 400A	250	1	PHDX5426	1STQ007092B0000	1/1
XT5 <b>NEW</b>	3/4	P - 400A	250	1	PHDX5429	1STQ007630B0000	1/1
XT5 <b>NEW</b>	3/4	P - 630A	250	1	PHDX5407	1STQ007095B0000	1/1
XT5 <b>NEW</b>	3	P - MO 400A	200	1	PHDX5309 <sup>(1)</sup>	1STQ007098B0000	1/1
XT5 <b>NEW</b>	3/4	P - MO 400A	250	1	PHDX5409 <sup>(1)</sup>	1STQ007101B0000	1/1

<sup>(1)</sup> Kit with recessed mounting plate. Only rear terminals.

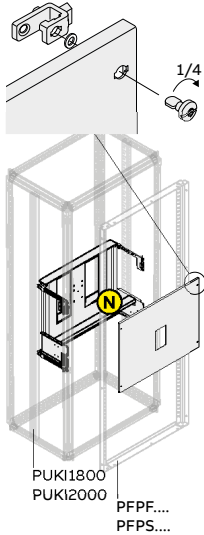
\* Only rear terminals

■ Front terminals, only Form 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
<b>36 DIN modules - W=800mm</b>							
XT5 NEW	3/4	P - MO 630A	250	1	PHDX5428 <sup>(1)</sup>	1STQ007103B0000	1/1
XT5 NEW	3/4	P - I 400/630A	600	2	PHDX5431 <sup>(1)</sup>	1STQ007105B0000	1/1
XT5 NEW	3/4	P - I - MO 400/630A	600	2	PHDX5432 <sup>(1)</sup>	1STQ007107B0000	1/1
XT5 NEW	3	W - RHD 400A	300	1	PHDX5314	1STQ007110B0000	1/1
XT5 NEW	3/4	W	350	1	PHDX5424	1STQ008554B0000	1/1
XT5 NEW	3/4	W - RHD 400A	350	1	PHDX5414	1STQ007113B0000	1/1
XT5 NEW	3	W - MO 400A	300	1	PHDX5312 <sup>(1)</sup>	1STQ007117B0000	1/1
XT5 NEW	3/4	W - MO 400A	350	1	PHDX5412 <sup>(1)</sup>	1STQ007120B0000	1/1
XT5 NEW	3/4	W - I 400/630A	600	2	PHDX5425 <sup>(1)</sup>	1STQ007122B0000	1/1
XT5 NEW	3/4	W - I - MO 400/630A	600	2	PHDX5411 <sup>(1)</sup>	1STQ007124B0000	1/1
XT6 NEW	3	F	300	1	PHDX6301	1STQ007925B0000	1/1
XT6 NEW	3	F - MO	300	1	PHDX6304 <sup>(1)</sup>	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 <sup>(1)</sup>	1STQ007932B0000	1/1
XT6 NEW	3/4	F - RHD	350	1	PHDX6405	1STQ007934B0000	1/1
XT6 NEW	3	W - MO	350	1	PHDX6312 <sup>(1)</sup>	1STQ007936B0000	1/1
XT6 NEW	3	W	350	1	PHDX6314*	1STQ007938B0000	1/1
XT6 NEW	3/4	W - MO	500	1	PHDX6412 <sup>(1)</sup>	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 <sup>(1)</sup>	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

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

<sup>(1)</sup> 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	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		

## 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
<b>36 DIN modules - W=800mm</b>							
XT7 <b>NEW</b>	3/4	F - MO	350	1	PHIT7420	1STQ006178B0000	1/1
XT7 <b>NEW</b>	3/4	F - RHD	350	1	PHIT7420	1STQ006178B0000	1/1
XT7 <b>NEW</b>	3/4	F - I	400	1	PHIT7418	1STQ006180B0000	1/1
XT7 <b>NEW</b>	3/4	F - I-MO	400	1	PHIT7418	1STQ006180B0000	1/1
XT7 <b>NEW</b>	3/4	W	500	1	PHIT7430 *	1STQ006184B0000	1/1
XT7 <b>NEW</b>	3/4	W - I	500	1	PHIT7430 *	1STQ006184B0000	1/1
XT7 <b>NEW</b>	3/4	W - I-MO	500	1	PHDE1240 *	1STQ008386A0000	1/1
XT7 <b>NEW</b>	3/4	W - MO	500	1	PHDE1240 *	1STQ008386A0000	1/1
XT7 <b>NEW</b>	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 <sup>(1)</sup>	1STQ008464A0000	1/1
T5	3	F 400A/630A	200	1	PHDT5306	1STQ007869A0000	1/1
T5	3	F - MO 400A/630A	200	1	PHDT5304 <sup>(1)</sup>	1STQ007870A0000	1/1
T5	3	F - RHD 400A/630A	200	1	PHDT5306	1STQ007869A0000	1/1
T5	3P	P - MO 400A	200	1	PHDT5309 <sup>(1)</sup>	1STQ008457A0000	1/1
T5	3	P 400A	200	1	PHDT5326	1STQ007871A0000	1/1
T5	3P	P - MO 400A	200	1	PHDT5309 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	1STQ008458A0000	1/1
T5	3/4	P - MO 630A	250	1	PHDT5428 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	1STQ008461A0000	1/1
T5	3/4	W - I - MO 400/630A	600	2	PHDT5411 <sup>(1)</sup>	1STQ008462A0000	1/1
T5	3/4	P - I 400/630A	600	2	PHDT5431 <sup>(1)</sup>	1STQ002119B0000	1/1
T5	3/4	P - I - MO 400/630A	600	2	PHDT5432 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup> ■	1STQ007890A0000	1/1
T6	3	W - RHD	350	1	PHDT6314 ■	1STQ007892A0000	1/1
T6	3/4	F	350	1	PHDT6401	1STQ007884A0000	1/1

\* Only rear terminals

■ Front terminals, only Form 1, High terminals covers not available.

<sup>(1)</sup> Kit with recessed mounting plate. Only rear terminals.

## Internal kits

### Order codes - Internal kits

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
<b>36 DIN modules - W=800mm</b>							
T6	3/4	F - MO	350	1	PHDT6404 <sup>(1)</sup>	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 <sup>(1)</sup> ■	1STQ007895A0000	1/1
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 <sup>(1)</sup>	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.

<sup>(1)</sup> 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

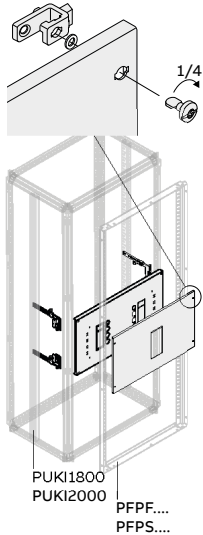
P - I	plug-in interlocked
P - I-MO	plug-in interlocked motor-operated
P - MO	plug-in motor-operated
P - RC	plug-in with residual current
P - RHD	plug-in with Direct Rotary Handle
W	withdrawable
W - I	withdrawable interlocked
W - I-MO	withdrawable interlocked motor-operated

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

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
<b>24 moduli DIN - W=600mm</b>							
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
<b>36 moduli DIN - W=800mm</b>							
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.

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:

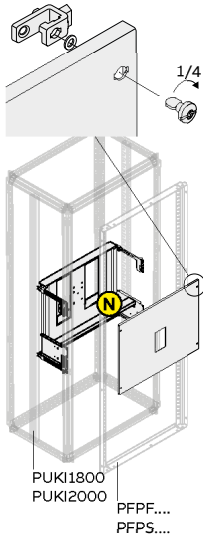
##### Tmax XT

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

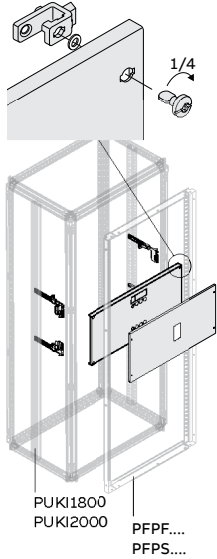
RC222 for T4 and T5.

Emax E1.2 W



## 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
<b>12 DIN modules - W=400mm</b>							
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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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

<sup>(1)</sup> 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.

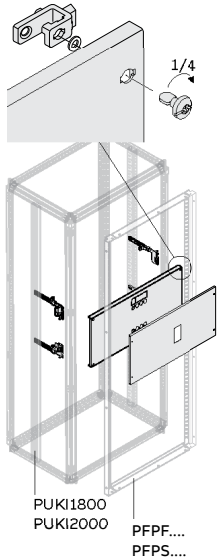
##### Tmax T

RC222 for T4 and T5.

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

## 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
<b>12 DIN modules - W=400mm</b>							
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 <sup>(3)</sup>	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 <sup>(3)</sup>	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 <b>NEW</b>	3	W - 630A	450	1	PVBX5319 <sup>(1)</sup>	1STQ007125B0000	1/1
XT5 <b>NEW</b>	3/4	F - MO 400/630A	350	1	PVBX5404 <sup>(3)</sup>	1STQ007126B0000	1/1
XT5 <b>NEW</b>	3/4	F - RHD 400/630A	350	1	PVBX5406	1STQ007127B0000	1/1
XT5 <b>NEW</b>	3/4	F - 400/630A	350	1	PVBX5420	1STQ007607B0000	1/1
XT5 <b>NEW</b>	3/4	P - MO 630A	400	1	PVBX5409 <sup>(3)</sup>	1STQ007128B0000	1/1
XT5 <b>NEW</b>	3/4	W - MO 400A	350	1	PVBX5412 <sup>(3)</sup>	1STQ007129B0000	1/1
XT5 <b>NEW</b>	3/4	W - RHD 400A	350	1	PVBX5414	1STQ007130B0000	1/1
XT5 <b>NEW</b>	4	F - RC 400A	450	1	PVBX5423 <sup>(2)</sup>	1STQ007131B0000	1/1
XT5 <b>NEW</b>	3/4	P - RHD 400A	350	1	PVBX5426	1STQ007132B0000	1/1
XT5 <b>NEW</b>	3/4	P - 400A	350	1	PVBX5407	1STQ007608B0000	1/1
XT5 <b>NEW</b>	4	P - RC 400A	450	1	PVBX5428 <sup>(2)</sup>	1STQ007133B0000	1/1
XT7 <b>NEW</b>	3/4	F-MO	450	1	PVBE1241	1STQ008179A0000	1/1
XT7 <b>NEW</b>	3/4	F	450	1	PVBE1241 <sup>(4)</sup>	1STQ008179A0000	1/1
T4	3/4	F	350	1	PVBT4406	1STQ007982A0000	1/1
T4	3/4	F - MO	350	1	PVBT4404 <sup>(3)</sup>	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 <sup>(3)</sup>	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 <sup>(2)(3)</sup>	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 <sup>(3)</sup>	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 <sup>(3)</sup>	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 <sup>(3)</sup>	1STQ008018A0000	1/1
T6	3/4	F - RHD	400	1	PVBT6405	1STQ008021A0000	1/1

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

<sup>(1)</sup> only front terminals not segregated

<sup>(2)</sup> compatible residual current devices: RC222 for XT5

<sup>(3)</sup> Kit with recessed mounting plate. Only rear terminals.

<sup>(4)</sup> Only for IP3X without door



## Internal kits

### Order codes - Internal kits

Tmax	No. poles Versions		Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
<b>24 DIN modules - W=600mm</b>							
XT1	3/4	F	300	1	PVCX1401	1STQ007909A0000	1/1
XT1	3	F	300	4	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 <sup>(1)</sup>	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 <b>NEW</b>	3/4	P	300	2	PVCX2706	1STQ005638B0000	1/1
XT2	3/4	P - MO	300	1	PVCX2409 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	1STQ007953A0000	1/1
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

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 PFPF.... 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 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

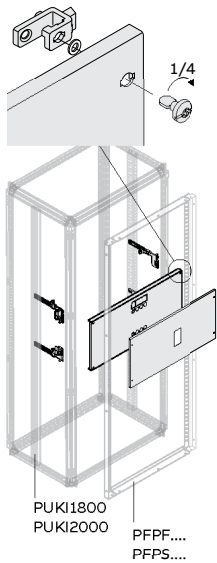
### Order codes - Internal kits

#### 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
<b>24 DIN modules - W=600mm</b>							
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 <sup>(1)</sup>	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 <sup>(2)</sup>	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 <b>NEW</b>	3/4	F - MO 400/630A	350	1	PVCX5404 <sup>(3)</sup>	1STQ007134B0000	1/1
XT5 <b>NEW</b>	3/4	F - RHD 400/630A	350	1	PVCX5406	1STQ007135B0000	1/1
XT5 <b>NEW</b>	3/4	F - 400/630A	350	1	PVCX5420	1STQ007609B0000	1/1
XT5 <b>NEW</b>	3/4	P - RHD 630A	400	1	PVCX5407	1STQ007136B0000	1/1
XT5 <b>NEW</b>	3/4	P - 630A	400	1	PVCX5429	1STQ007610B0000	1/1
XT5 <b>NEW</b>	3/4	P - MO 630A	400	1	PVCX5409 <sup>(3)</sup>	1STQ007137B0000	1/1
XT5 <b>NEW</b>	3/4	W-630A	350	2	PVCX5431	1STQ008555B0000	1/1
XT5 <b>NEW</b>	3	W-630A	450	1	PVCX5432	1STQ008556B0000	1/1
XT5 <b>NEW</b>	3/4	W - MO 400A	350	1	PVCX5412 <sup>(3)</sup>	1STQ007138B0000	1/1
XT5 <b>NEW</b>	3/4	W - RHD 400A	350	1	PVCX5414	1STQ007139B0000	1/1
XT5 <b>NEW</b>	4	F - RC 400A	450	1	PVCX5423 <sup>(2)</sup>	1STQ007140B0000	1/1
XT5 <b>NEW</b>	3/4	P - RHD 400A	350	1	PVCX5426	1STQ007141B0000	1/1
XT5 <b>NEW</b>	3/4	P - 400A	350	1	PVCX5427	1STQ007611B0000	1/1
XT5 <b>NEW</b>	4	P - RC 400A	450	1	PVCX5428 <sup>(2)</sup>	1STQ007142B0000	1/1
XT5 <b>NEW</b>	3/4	W - MO 630A	400	1	PVCX5430 <sup>(3)</sup>	1STQ007143B0000	1/1
XT5 <b>NEW</b>	3	W - 630A	450	2	PVCX5601 <sup>(1)</sup>	1STQ007144B0000	1/1
XT5 <b>NEW</b>	3/4	F - 400/630A	350	2	PVCX5712 <sup>(1)</sup>	1STQ007146B0000	1/1
XT5 <b>NEW</b>	3	P - 630A	450	1	PVCX5307 <sup>(1)</sup>	1STQ007168B0000	1/1
XT5 <b>NEW</b>	3	P - RHD 630A	450	1	PVCX5326 <sup>(1)</sup>	1STQ007615B0000	1/1
XT6 <b>NEW</b>	3/4	F - MO	400	1	PVCX6404 <sup>(1)</sup>	1STQ007947B0000	1/1
XT6 <b>NEW</b>	3/4	F - RHD	400	1	PVCX6405	1STQ007950B0000	1/1
XT6 <b>NEW</b>	3/4	W	450	1	PVCX6414*	1STQ007954B0000	1/1
XT6 <b>NEW</b>	3/4	W - MO	450	1	PVCX6412 <sup>(3)</sup>	1STQ007956B0000	1/1
XT6 <b>NEW</b>	3/4	F	400	1	PVCX6401	1STQ007965B0000	1/1
XT6 <b>NEW</b>	3/4	W - RHD	450	1	PVCX6415*	1STQ008043B0000	1/1
XT7 <b>NEW</b>	3/4	F	450	1	PVGT7419	1STQ006181B0000	1/1
XT7 <b>NEW</b>	3/4	F - I	450	1	PVGT7419	1STQ006181B0000	1/1

\* Only rear terminals

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

<sup>(1)</sup> Only front terminals not segregated

<sup>(2)</sup> Compatible residual current devices: RC222 for XT5

<sup>(3)</sup> Kit with recessed mounting plate. Only rear terminals.

## Internal kits

### Order codes - Internal kits

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
<b>24 DIN modules - W=600mm</b>							
XT7 <b>NEW</b>	3/4	F - I-MO	450	1	PVCE1241	1STQ008184A0000	1/1
XT7 <b>NEW</b>	3/4	F - MO	450	1	PVCE1241	1STQ008184A0000	1/1
XT7 <b>NEW</b>	3/4	W - I	500	1	PVGT7413 <sup>(1)</sup>	1STQ006185B0000	1/1
XT7 <b>NEW</b>	3/4	W - MO	500	1	PVCE1240 *	1STQ008185A0000	1/1
XT7 <b>NEW</b>	3/4	W - I-MO	500	1	PVCE1240 *	1STQ008185A0000	1/1
XT7 <b>NEW</b>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)</sup>	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 <sup>(1)(2)</sup>	1STQ002133B0000	1/1
T5	3/4	W - MO 630A	400	1	PVCT5430 <sup>(1)(2)</sup>	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.

<sup>(1)</sup> Kit with recessed mounting plate. Only rear terminals.

<sup>(2)</sup> 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 PFPF.... 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

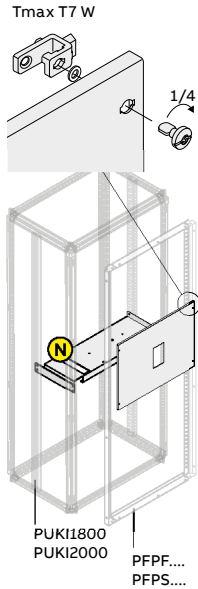
RC222 for T4 and T5.

#### 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		

## Internal kits

Order codes - Internal kits



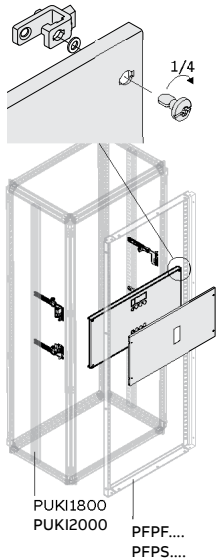
### Kits for installation of Tmax circuit-breakers

#### 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
<b>24 DIN modules - W=600mm</b>							
T6	3/4	F - MO	400	1	PVCT6404 <sup>(1)</sup>	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 <sup>(3)</sup> ■	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
<b>36 DIN modules - W=800mm</b>							
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 <b>NEW</b>	3/4	F - MO 400/630A	350	1	PVDX5404 <sup>(3)</sup>	1STQ007147B0000	1/1
XT5 <b>NEW</b>	3/4	F - RHD 400/630A	350	1	PVDX5406	1STQ007148B0000	1/1
XT5 <b>NEW</b>	3/4	F - 400/630A	350	1	PVDX5420	1STQ007612B0000	1/1
XT5 <b>NEW</b>	3/4	P - RHD 630A	400	1	PVDX5407	1STQ007149B0000	1/1
XT5 <b>NEW</b>	3/4	P - 630A	400	1	PVDX5427	1STQ007613B0000	1/1
XT5 <b>NEW</b>	3/4	P - MO 630A	400	1	PVDX5409 <sup>(3)</sup>	1STQ007150B0000	1/1
XT5 <b>NEW</b>	3/4	W - MO 400A	350	1	PVDX5412 <sup>(3)</sup>	1STQ007151B0000	1/1
XT5 <b>NEW</b>	3/4	W - RHD 400A	350	1	PVDX5414	1STQ007152B0000	1/1
XT5 <b>NEW</b>	4	F - RC 400A	450	1	PVDX5423 <sup>(2)</sup>	1STQ007153B0000	1/1
XT5 <b>NEW</b>	3/4	P - RHD 400A	350	1	PVDX5426	1STQ007154B0000	1/1
XT5 <b>NEW</b>	3/4	P - 400A	350	1	PVDX5429	1STQ007614B0000	1/1

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

<sup>(1)</sup> only front terminals not segregated

<sup>(2)</sup> compatible residual current devices: RC222 for XT5

<sup>(3)</sup> Kit with recessed mounting plate. Only rear terminals.

## Internal kits

### Order codes - Internal kits

Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
<b>36 DIN modules - W=800mm</b>							
XT5	NEW	4 P - RC 400A	450	1	PVDX5428 <sup>(2)</sup>	1STQ007155B0000	1/1
XT5	NEW	3 W - 630A	450	1	PVDX5431	1STQ008557B0000	1/1
XT5	NEW	3 W - 630A	450	2	PVDX5432	1STQ008558B0000	1/1
XT5	NEW	4/4 W - MO 630A	400	1	PVDX5430 <sup>(3)</sup>	1STQ007156B0000	1/1
XT5	NEW	3/4 W - 630A	350	2	PVDX5610	1STQ007157B0000	1/1
XT5	NEW	3/4 W - MO 400A	350	2	PVDX5612 <sup>(3)</sup>	1STQ007158B0000	1/1
XT5	NEW	3 W - 630A	450	3	PVDX5701 <sup>(1)</sup>	1STQ007159B0000	1/1
XT5	NEW	3/4 F - 400/630A	350	3	PVDX5813 <sup>(1)</sup>	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 <sup>(3)</sup>	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 <sup>(3)</sup>	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 <sup>(3)</sup>	1STQ006186B0000	1/1
XT7	NEW	3/4 W - I	500	1	PVIT7413 <sup>(3)</sup>	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 <sup>(3)</sup>	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.

<sup>(1)</sup> only front terminals not segregated

<sup>(2)</sup> compatible residual current devices: RC222 for XT5

<sup>(3)</sup> 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 PFPF.... 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

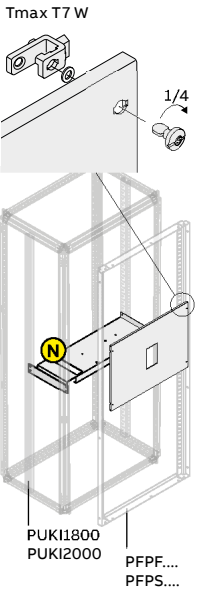
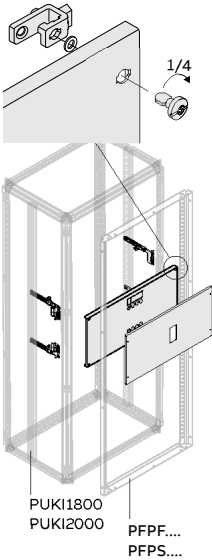
RC222 for T4 and T5.

#### 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		

## 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
<b>36 DIN modules - W=800mm</b>							
T5	3/4	P 630A	400	1	PVDT5407	1STQ002124B0000	1/1
T5	3/4	P - MO 630A	400	1	PVDT5409 <sup>(2) (3)</sup>	1STQ002134B0000	1/1
T5	3/4	P - RHD 400A	350	1	PVDT5426	1STQ008005A0000	1/1
<b>T5 NEW</b>	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 <sup>(1)</sup>	1STQ008481A0000	1/1
T5	3/4	W - MO 400A	350	1	PVDT5412 <sup>(1)</sup>	1STQ007997A0000	1/1
T5	3/4	W - MO 630A	400	1	PVDT5430 <sup>(1) (2)</sup>	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 <sup>(3)</sup>	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 <sup>(3)</sup> ■	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.

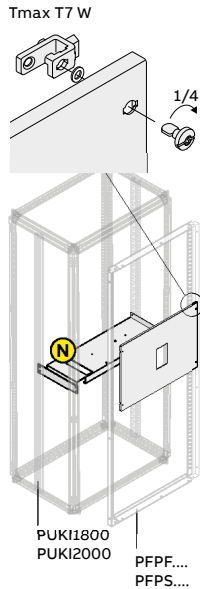
<sup>(1)</sup> only front terminals not segregated

<sup>(2)</sup> compatible residual current devices: RC222 for XT5

<sup>(3)</sup> Kit with recessed mounting plate. Only rear terminals.

## Internal kits

### Order codes - Internal kits



Tmax	No. poles	Versions	Dimensions H (mm)	No. CB per compart.	Type	Order code	Pkg/ No. pcs
<b>48 DIN modules - W=1000mm</b>							
XT5 <b>NEW</b>	3/4	W - 400/630	350	3	PVFX5710	1STQ007162B0000	1/1
XT5 <b>NEW</b>	3/4	W - MO - 400/630A	350	3	PVFX5712	1STQ007163B0000	1/1
XT5 <b>NEW</b>	3	W - 400/630A	350	4	PVFX5810	1STQ007164B0000	1/1
XT5 <b>NEW</b>	3	W - MO - 400/630A	350	4	PVFX5812	1STQ007165B0000	1/1
XT5 <b>NEW</b>	3	W - 630A	450	1	PVFX5413	1STQ008559B0000	1/1
XT5 <b>NEW</b>	3	W - 630A	450	2	PVFX5414	1STQ008560B0000	1/1
XT5 <b>NEW</b>	3	W - 630A	450	3	PVFX5415	1STQ008561B0000	1/1
XT6 <b>NEW</b>	3/4	W	450	2	PVFX6610*	1STQ007962B0000	1/1
XT6 <b>NEW</b>	3/4	W - MO	450	2	PVFX6612*	1STQ007963B0000	1/1
XT6 <b>NEW</b>	3/4	W - RHD	450	2	PVFX6615	1STQ008045B0000	1/1
XT7 <b>NEW</b>	3/4	W	500	2	PVLT7633 *	1STQ006187B0000	1/1
XT7 <b>NEW</b>	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	1STQ008478A0000	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

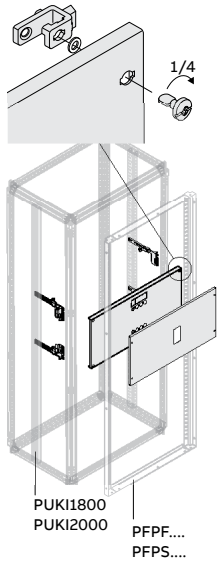
RC222 for T4 and T5.

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

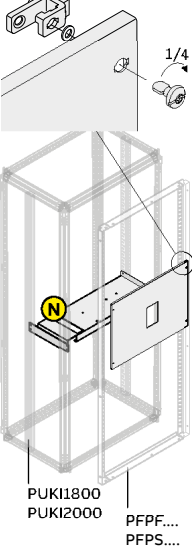
## Internal kits

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
<b>12 DIN modules - W=400mm</b>							
E1.2	3/4	F	450	1	PVBE1241	1STQ008179A0000	1/1
E1.2	3/4	F - I	450	1	PVBE1241	1STQ008179A0000	1/1
<b>24 DIN modules - W=600mm</b>							
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
<b>36 DIN modules - W=800mm</b>							
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
<b>48 DIN modules - W=1000mm</b>							
E1.2	3/4	W	500	2	PVFE1263*	1STQ008486A0000	1/1

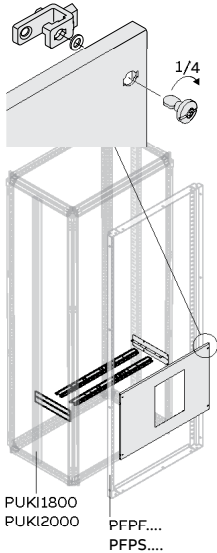
To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Order the dedicated fixed frame PFPF... or swing frame PFPS... for assembling internal panels.

- 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
<b>24 DIN modules - W=600mm</b>							
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
<b>36 DIN modules - W=800mm</b>							
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
<b>48 DIN modules - W=1000mm</b>							
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
<b>62 DIN modules - W=1250mm</b>							
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

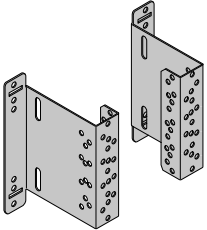
To assemble these kits, order the dedicated intermediate depth uprights PUKI1800 for H= 1800mm or PUKI2000 for H=2000mm. Order the dedicated fixed frame PFPF... or swing frame PFPS... for assembling internal panels.

#### 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)	PBBT0250N	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.

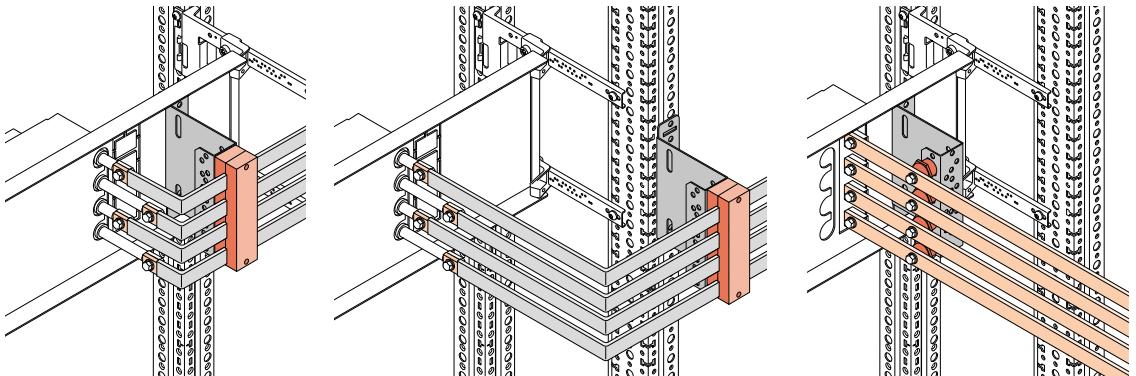
For details about use consult [Chapter 7 - Examples of brackets used for horizontal moulded-case circuit-breakers for further info please refer to table at pag. 4/31 - 7/40 and 7/41.](#)

### 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

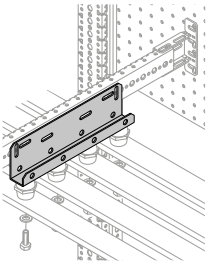
### Example of brackets used with copper busbars and hexagonal insulators

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



## Internal kits

Order codes - Internal kits



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

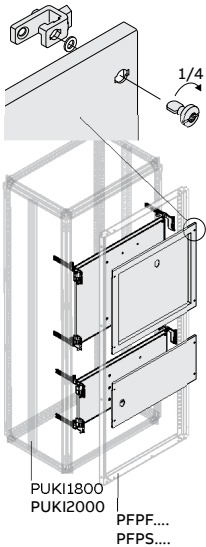
These brackets are designed to facilitate the creation (using screws and hexagonal insulators) of bus-bar anchor plates from the terminals of the circuit-breakers towards the main omnibus busbar system.

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 4.2 VERTICAL 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](#) for further info please refer to table at pag. 4/31 - 7/40 and 7/41.

### 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.

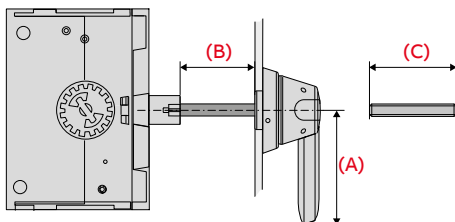


Description	Dimensions (mm)		Dimensions maximum handle (A) (mm)	Lever position	Type	Order code	Pack/No. pcs
	H	W					
<b>Vertical installation kit 3/4 poles</b>							
OT 160, 200, 250, OT160EV	350	600	80	E03-E04	PKOV1660	1STQ007437A0000	1/1
OT 160, 200, 250 OT160EV	350	800	80	E03-E04	PKOV1680	1STQ007440A0000	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
<b>Horizontal installation kit 3/4 poles</b>							
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 <sup>(1)</sup>	PKOH1060	1STQ007445A0000	1/1
OT 1000, 1250, 1600*	600	800	175	E12-E22	PKOH1080	1STQ007448A0000	1/1

\*Circuit breakers with recessed mounting plate. <sup>(1)</sup> 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

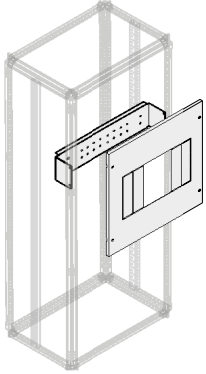


Description	(B) * Screw distance from Panel edge (mm)	(C) Length of recommended shaft type (mm)
OT 160, 200, 250, OT160EV	130 Ø6	150
OT 315, 400	95 Ø12	166
OT 630, 800	70 Ø12	166
OT 1000, 1250, 1600	170 Ø12	250

\*Add 20mm to dimension for shaft assembly.

## Internal kits

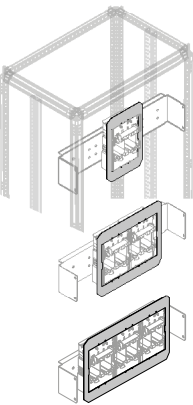
Order codes - Internal kits



### NEW Kits for Easy Line XLP

Kit for Easy Line Fuse Switch Disconnecter XLP up to 630A 3P vertical mounting.  
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.

Description	Dimensions (mm)		N. XLP per KIT	Type	Order code	Pkg/ No. pcs
	H	W				
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

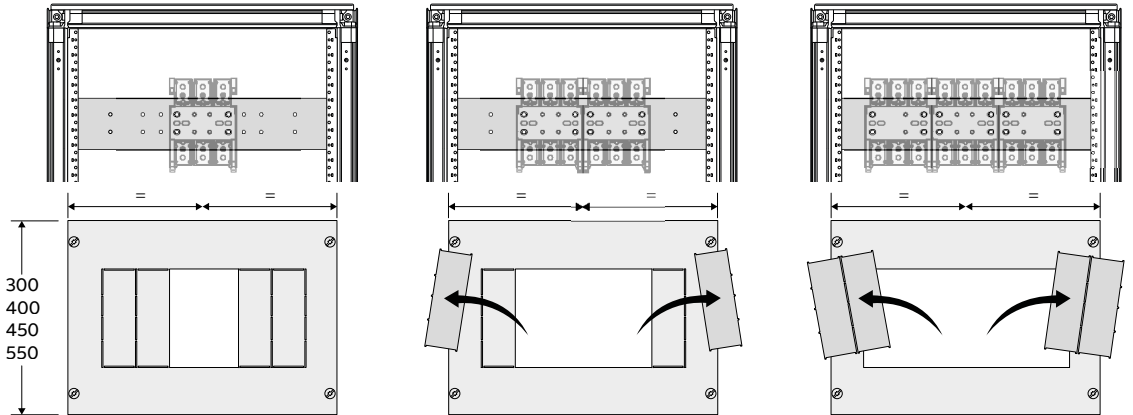


### Frontframe for XLP

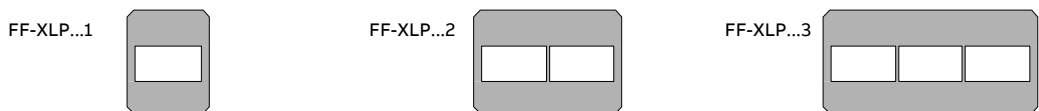
For each device type and quantity per kit order the frontframe cover as table below.

Descrizione	Dimensioni (mm)		Tipo	Codice d'ordine	Conf./ N°pezzi
	H	W			
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

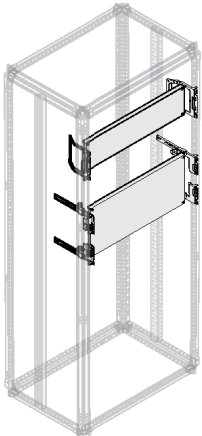


### Front frames for Easy Line XLP



## Internal kits

Order codes - Internal kits

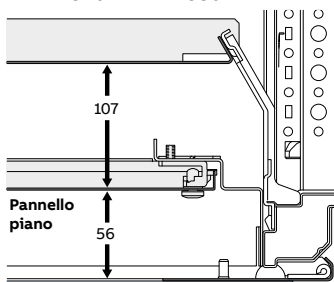


### Blind mounting plates

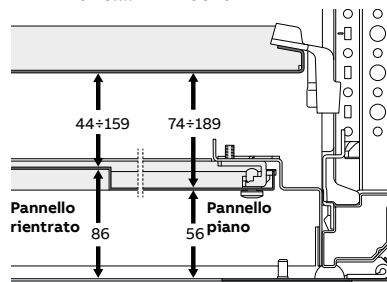
The kit includes the dedicated fixing brackets and the mounting plate.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
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

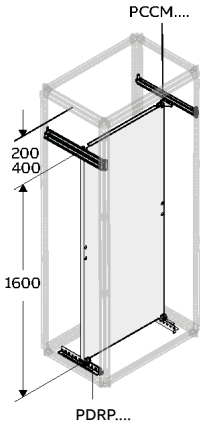
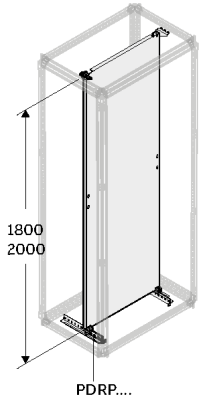


PPMB2040...PPMB6010



## Internal kits

Order codes - Internal kits



### Blind mounting plates total height

Description	Dimensions (mm)			Type	Order code	Pkg/ No. pcs
	H	W	D			
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

Description	D	Type	Order code	Pkg/ No. pcs
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

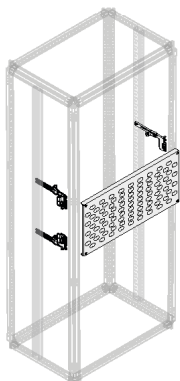
### Crosspieces for mounting blind total height plate

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	D				
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.

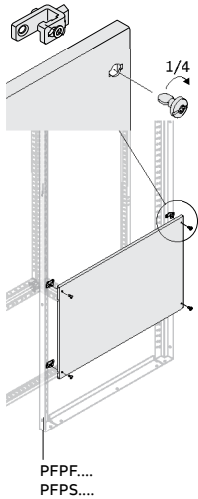


Description	Plate		Type	Order code	Pkg/ No. pcs
	Width (mm)	Height (mm)			
Asolated plate MCC	600	200	PMCC2060	1STQ005521B0000	
Asolated plate MCC	600	300	PMCC3060	1STQ005522B0000	
Asolated plate MCC	600	400	PMCC4060	1STQ005523B0000	
Asolated plate MCC	600	600	PMCC6060	1STQ005524B0000	
Asolated plate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

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

## 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.

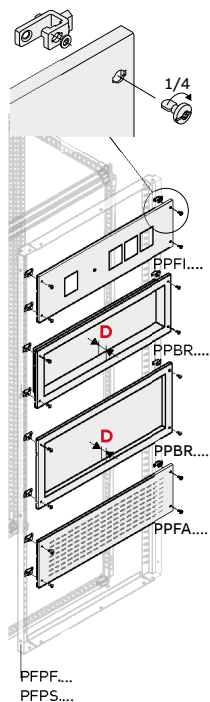
Description	Dimensions (mm)			Order code	Pkg/ No. pcs
	H	W	Type		
Flat blind panel	50	400	PPFB5040	1STQ007465A0000	1/1
Flat blind panel	100	400	PPFB1040	1STQ007466A0000	1/1
Flat blind panel	150	400	PPFB1540	1STQ007467A0000	1/1
Flat blind panel	200	400	PPFB2040	1STQ007468A0000	1/1
Flat blind panel	250	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	1STQ001564B0000	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 PPFF.... or swing frame PFPS.... for assembling internal panels.

\* Only for swing frame PFPS.... Not compatible with the hinges accessory PHFP0020.

## 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)			Order code	Pkg/ No. pcs
	H	W	Type		
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)			Type	Order code	Pkg/ No. pcs
	H	W	D			
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

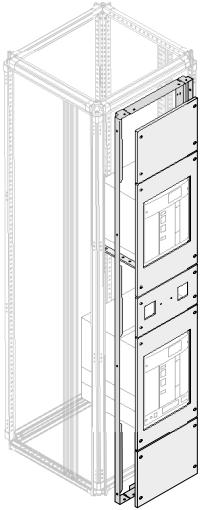
Description	Dimensions (mm)			Order code	Pkg/ No. pcs
	H	W	Type		
Ventilated panel	100	400	PPFA1040	1STQ007732A0000	1/1
Ventilated panel	200	400	PPFA2040	1STQ007733A0000	1/1
Ventilated panel	100	600	PPFA1060	1STQ007734A0000	1/1
Ventilated panel	200	600	PPFA2060	1STQ007735A0000	1/1
Ventilated panel	100	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 PPFI.... or swing frame PFPS.... for assembling internal panels.



# Internal kits

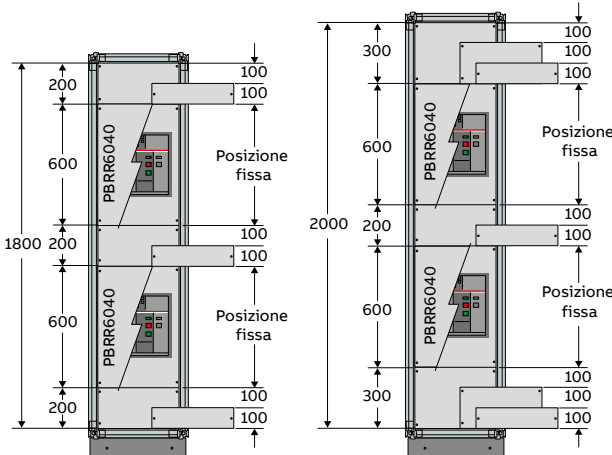
## Order codes - Internal kits



### “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 3/4 P W; E2.2 3 P F; E2.2 3 P 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)			Type	Order code	Pkg/ No. pcs
	H	W	D			
<b>Frame</b>						
Reduced fixed frame	1800	400		PFRF1840	1STQ009283A0000	1/1
Reduced fixed frame	2000	400		PFRF2040	1STQ009284A0000	1/1
<b>Kit for reduced frame</b>						
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
<b>Panel for reduced frame</b>						
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
<b>Segregation Form 2a-3a</b>						
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
<b>Segregation Form 3b</b>						
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



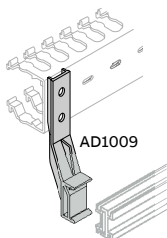
• Quick selection guides page 3-4

• Technical details page 7-1

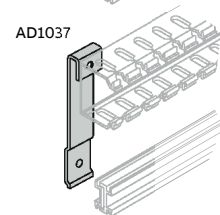
• Overall dimensions page 8-1

## Internal kits

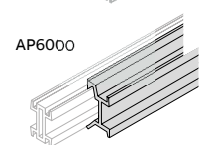
Order codes - Internal kits



AD1009



AD1037



AP6000

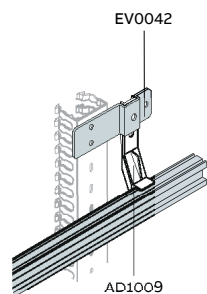
### DIN rail accessories

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

Description	Type	Order code	Pkg/ No. pcs
<b>Supports for horizontal wiring ducts</b>			
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
<b>Depth adapter</b>			
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.



EV0042

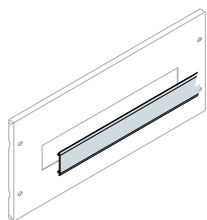
AD1009

### 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

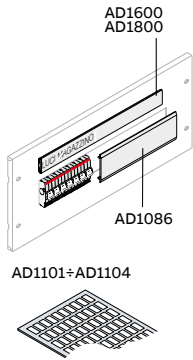
### Holes covering strip RAL7035 colour



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

## Internal kits

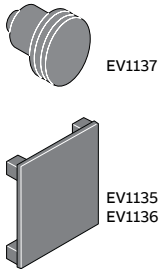
Order codes - accessories and spare parts



### 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.

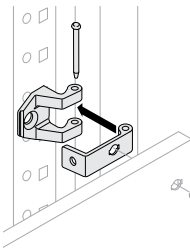


### Closing plug for instrument holder panels

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

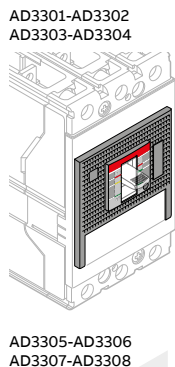
### Hinges for panels

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



### 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



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## **Chapter 4**

Main distribution systems

**4-2 General information**

**4-6 Selection tables**

**4-8 Example of use**

**4-14 Selection guides**

**4-34 Guide to the order codes**

**4-35 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  $I_n \geq$  at 4000A to limit the effect of stray currents

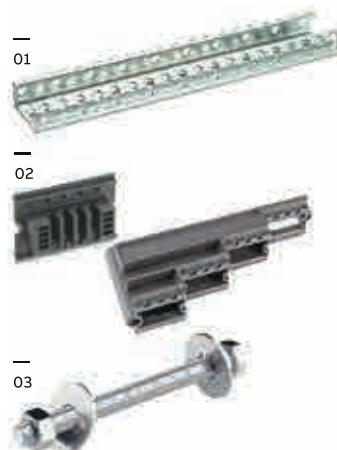
The main advantages are:

- 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		
<b>Flat busbars</b>	1,2,3 or 4 bars per phase	50mm block 2000A 75mm block 3200A 100mm block 6300A	1,2,3 or 4 bars per phase	2000A	
	<b>Shaped busbars</b>	1 per phase	50mm block 1600A 75mm block 2000A 75mm block 2500A	1 per phase	1600A



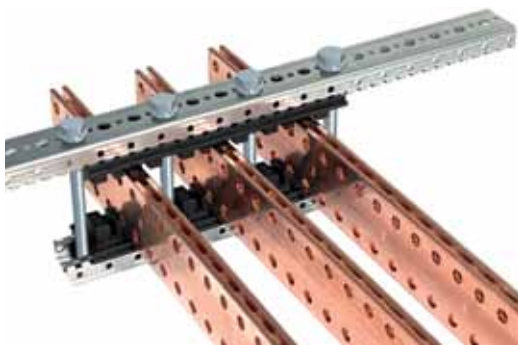


The linear busbar holder is formed by inserting, with a “click”, the insulating supports onto the crosspieces, which are fixed directly inside the switchboard by means of simple brackets.

## 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  $I_n < 4000A$  current values or crosspieces in AISI 304 stainless steel for  $I_n \geq 4000A$  current values.



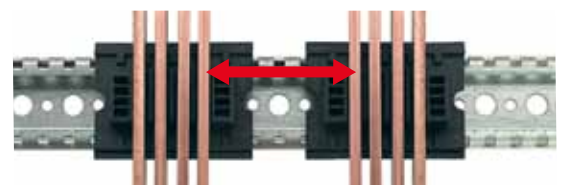
The crosspiece is an integral part of the busbar holder and is fixed directly inside the cubicle with the purpose-made brackets. In addition, it can also be used as a universal

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  $I_n < 4000A$  current values). They are available in four different length according to the busbars' crosssection installed. The AISI 304 stainless steel tie rods (for  $I_n \geq 4000A$  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.

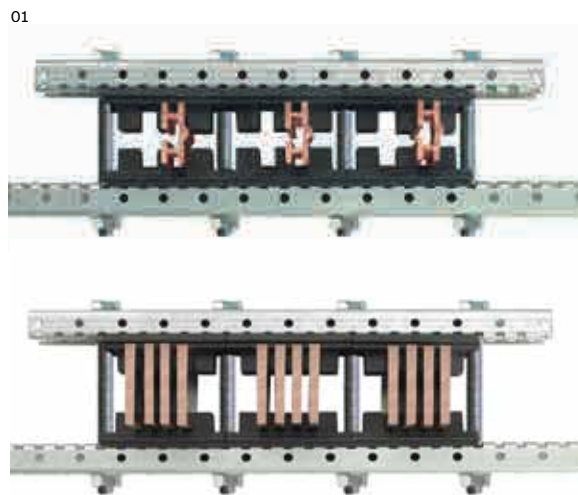
### Advantages

- 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.







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

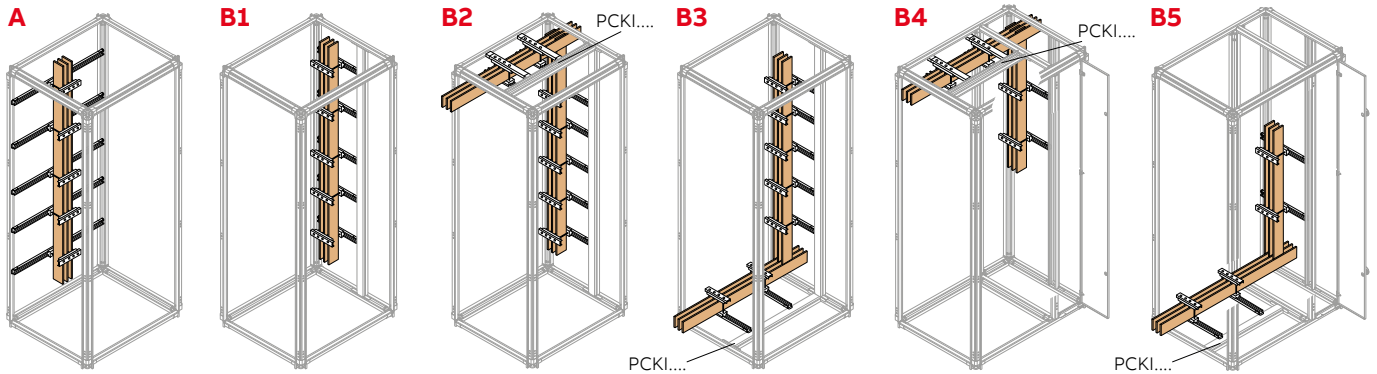
Insulating support	Notes	No. Flat busbars per phase	Slot dimensions	Maximum busbar H	Minimum busbar H
One type of insulating support	can house busbars on both side	1x10mm	12mm slot	120x10	30x10
		2x5mm	9.5mm slot	125x5	20x5

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

# Main distribution systems

## Selection tables

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



For vertical busbars in structure  $D \geq 500\text{mm}$ , 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 horizontal busbars in the structure under the top/on the bottom **B4/B5** - vertical busbars in the cable compartment with horizontal busbars top/bottom<sup>(1)</sup>

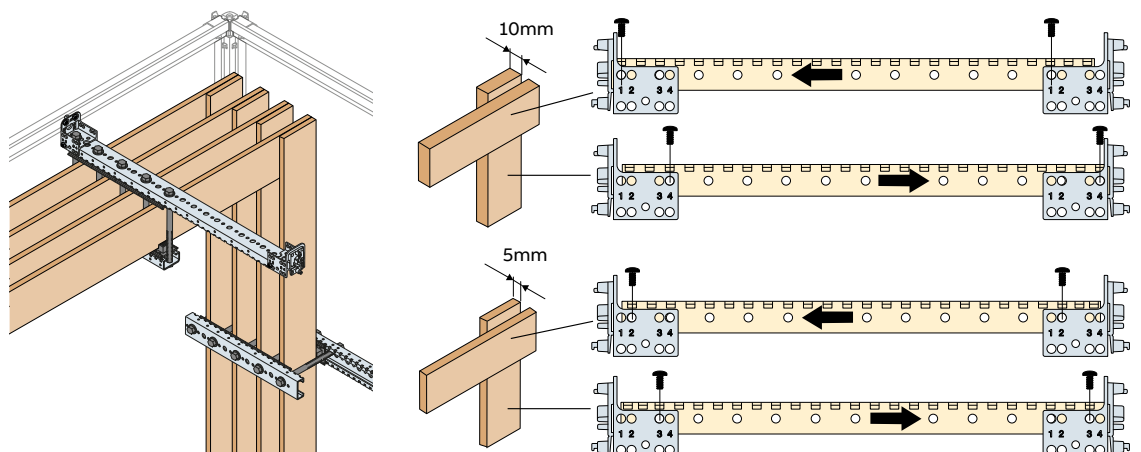
CROSSPIECES FOR BUSBAR HOLDERS (1 piece per busbar holder)

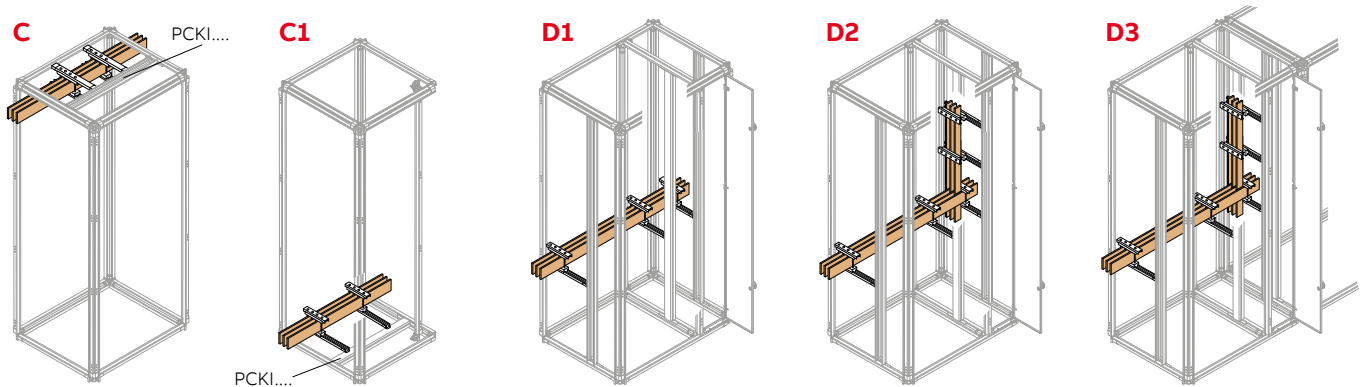
SUPPORTS FOR FIXING CROSSPIECES TO THE STRUCTURE \* (2 pieces per crosspiece)

Structure W (mm)	Crosspiece in galvanized sheet metal	Crosspiece in stainless steel for $I_n \geq 4000A^{**}$	Structure D (mm)	Crosspiece in galvanized sheet metal	Crosspiece in galvanized sheet metal + intermediate upright	Crosspiece in stainless steel for $I_n \geq 4000A^{(5)}$	Crosspiece in stainless steel** for $I_n \geq 4000A$ + intermediate upright
300	PCRM0288		200	PCRM0188			
400	PCRM0388	PCRS0388	300	PCRM0288			
			500	PCRM0488	PCRM0238		
600	PCRM0588	PCRS0588	700	PCRM0688	PCRM0438		PCRS0438
800	PCRM0788	PCRS0788	900	PCRM0888	PCRM0638	PCRS0888	PCRS0638
1000	PCRM0988	PCRS0988					
1250	PCRM1238	PCRS1238					

See example page 5/8-5/9

<sup>(1)</sup> Use busbars with 100x10mm maximum section for structures with internal cable compartment  $L=200\text{mm}$  with horizontal busbars top/bottom.





**C/C1** - - Horizontal busbars under the top or on the bottom of the structure <sup>(2)</sup>

**D1** - Horizontal busbars at any height of the structure and internal cable compartment  
**D2** - Vertical busbars in the cable compartment with horizontal busbars in the structure at any height <sup>(3)</sup>  
**D3** - Horizontal busbars at any height 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 <sup>**</sup> (4) + intermediate crosspiece PCKI....	Structure D (mm)	Crosspiece in galvanized sheet metal <sup>(5)</sup>	Crosspiece in galvanized sheet metal + intermediate upright	Crosspiece in stainless steel <sup>**</sup> (4)	Crosspiece in stainless steel <sup>**</sup> + 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

<sup>(2)</sup> 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.

<sup>(3)</sup> Use busbars with 80x10mm maximum section for structures with internal cable compartment L=200mm. With horizontal busbars in the structure at any height.

<sup>(4)</sup> Only flat busbars.

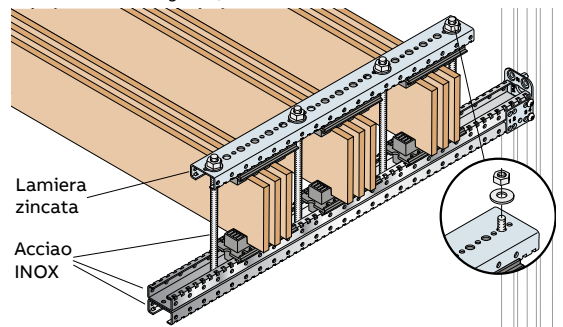
<sup>(5)</sup> In structures without intermediate upright, swing frame PFPS... cannot be installed with horizontal busbars at all height.

\* 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.

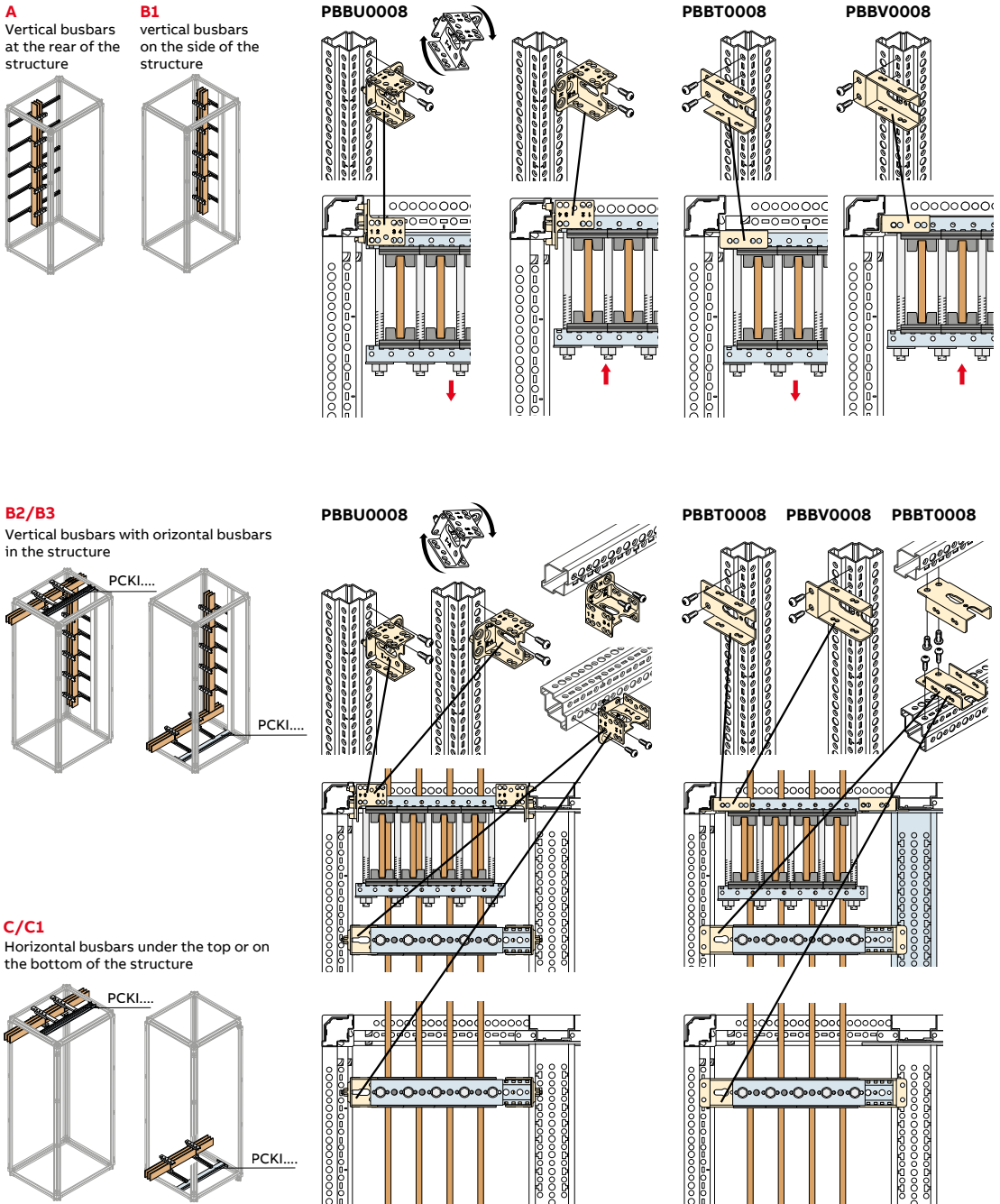
2 (two) crosspieces are required only for horizontal busbar systems installed at each height D1, D2 and D3.



# Main distribution systems

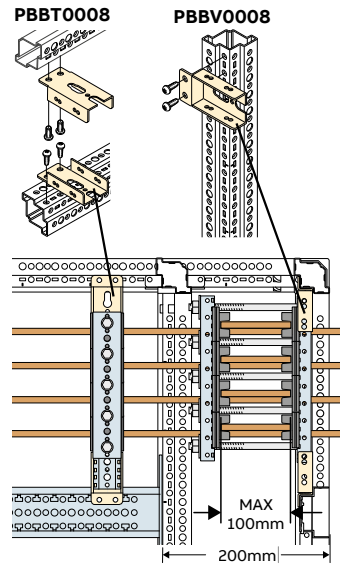
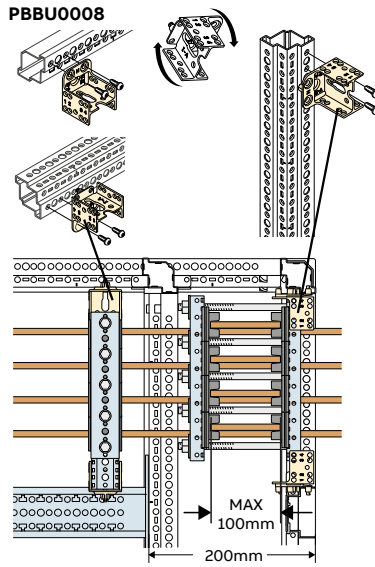
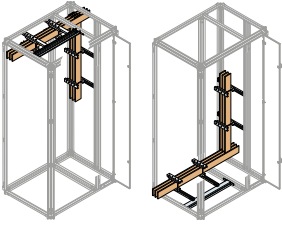
## Examples of use

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

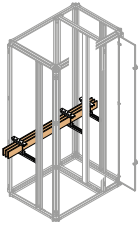


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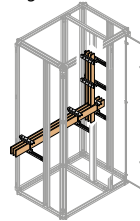
**B4/B5**  
vertical busbars in the cable compartment with horizontal busbars in the structure



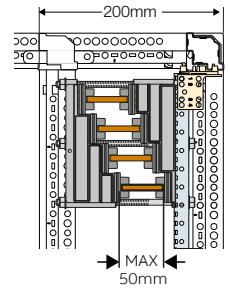
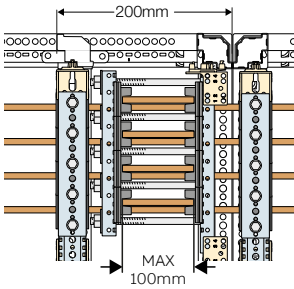
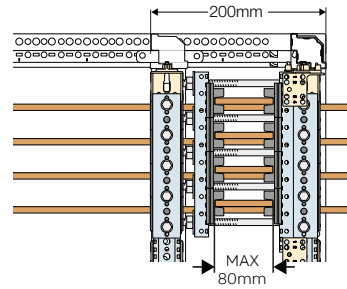
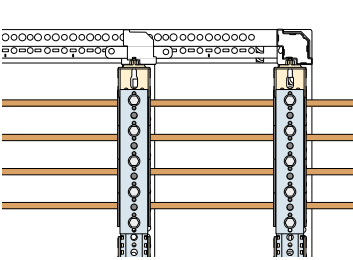
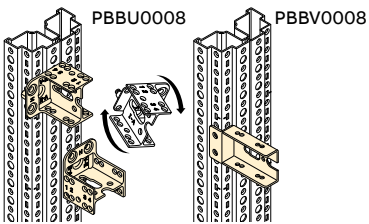
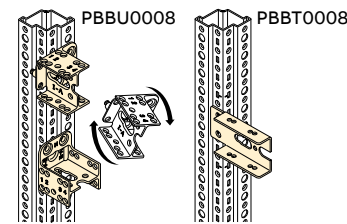
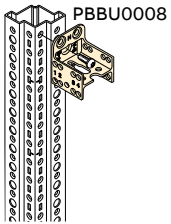
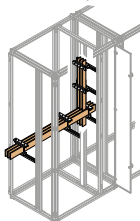
**D1**  
Horizontal busbars at any height of the structure and internal cable compartment



**D2**  
Vertical busbars in the cable compartment with horizontal busbars in the structure at any height

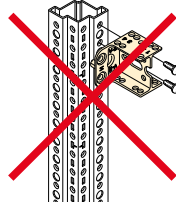
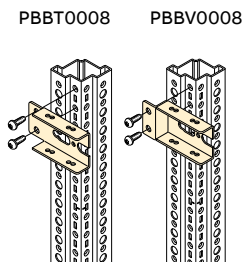
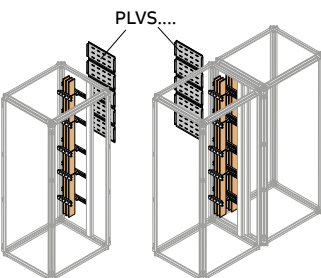


**D3**  
Horizontal busbars at any height in side by side structures and vertical busbars in the internal cable compartment



**Lateral segregation**

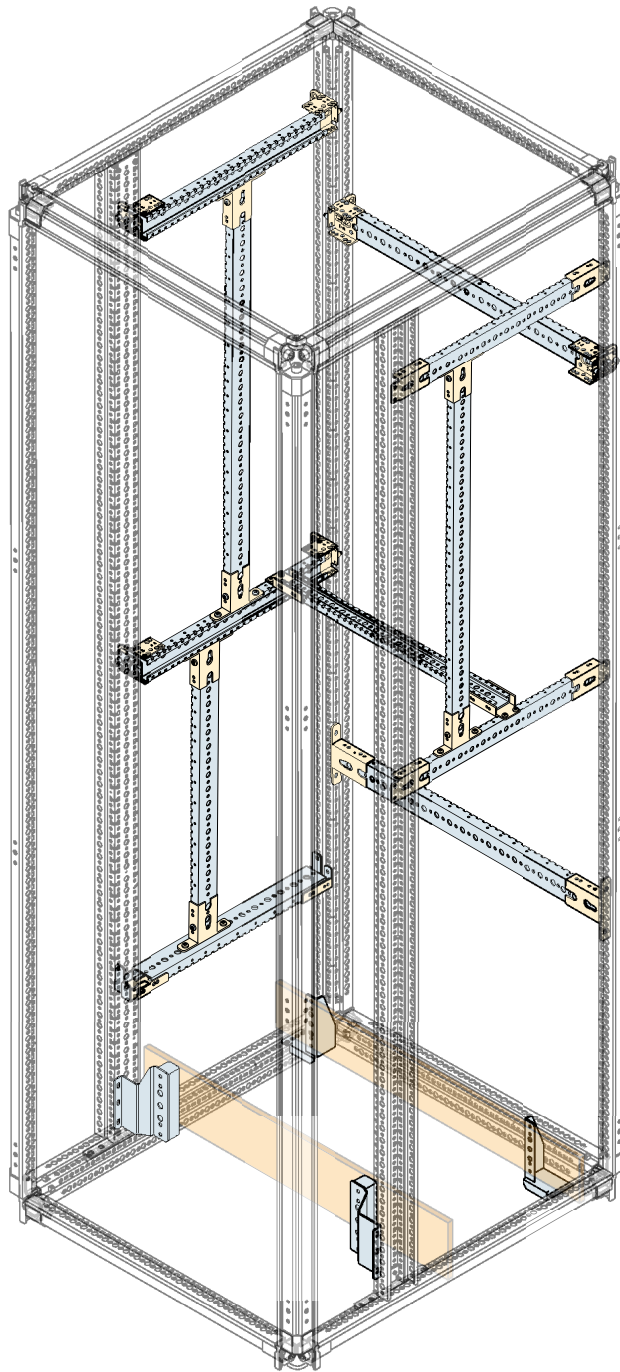
Plates PBBT0008 or PBBV0008 must necessarily be used if lateral segregations PLVS...., are used with the busbar system installed at the side.



# Main distribution systems

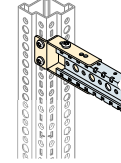
## Examples of use

Example use of crosspieces

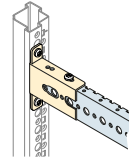


### Fixing between uprights and crosspieces

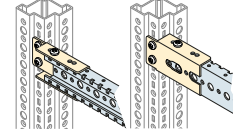
PBBV0008



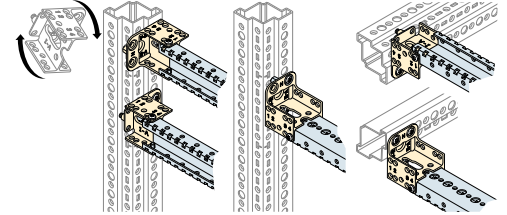
PBMC0002



PBBT0008

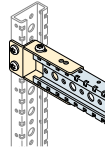


PBBU0008

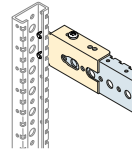


### Fixing between crosspieces

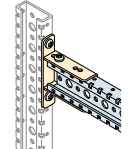
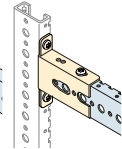
PBBV0008



PBBT0008

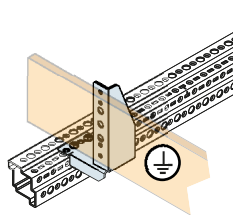


PBMC0002



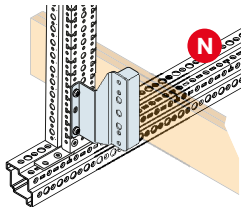
### Earth fixing

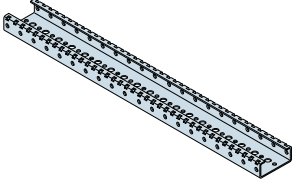
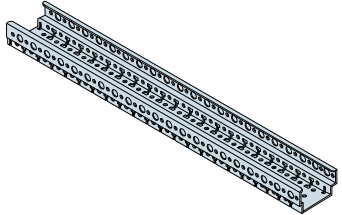
PBRP0002



### 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

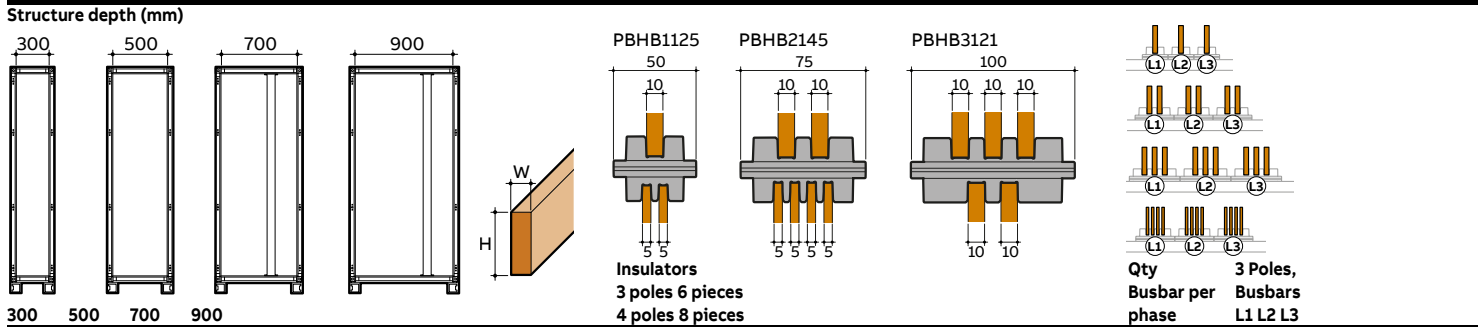
\* With the exception of internal cable compartment width; a PCRM.... type of crosspiece must be cut for this application

# Main distribution systems

## Selection guides

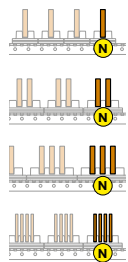
### LINEAR SYSTEM - FLAT COPPER BUSBARS, NON-SPACED INSULATORS

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

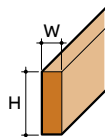


Recommended minimum enclosure functional depth 3/4 poles busbar system, insulators in packed configuration					Section busbar H x W (mm)	code	No.	code
leff (A)	In (A)							
<b>IP30/31 Aerated</b>								
292	292	292	292	250	20X5	PBHB1125	1	3xPBFC2005
365	365	365	365	400	25X5	PBHB1125	1	3xPBFC2505
467	467	467	467	400	32X5	PBHB1125	1	3xPBFC3205
584	584	584	584	630	40X5	PBHB1125	1	3xPBFC4005
730	730	730	730	630	50X5	PBHB1125	1	3xPBFC5005
788	788	788	788	800	63X5	PBHB1125	1	3xPBFC6305
876	876	876	876	800	30X10	PBHB1125	1	3xPBFC3010
1000	1000	1000	1000	1000	80X5	PBHB1125	1	3xPBFC8005
1168	1168	1168	1168	1000	40X10	PBHB1125	1	3xPBFC4010
1168	1168	1168	1168	1000	40X5	PBHB1125	2	6xPBFC4005
1460	1460	1460	1460	1250	50X10	PBHB1125	1	3xPBFC5010
1460	1460	1460	1460	1250	100X5	PBHB1125	1	3xPBFC1005
1600	1600	2000	2000	1600	80X10	PBHB1125	1	3xPBFC8010
1600	1600	2000	2000	1600	80X5	PBHB1125	2	6xPBFC8005
1600	1600	2120	2120	2000	100X5	PBHB1125	2	6xPBFC1005
-	-	2120	2120	2000	50X10	PBHB2145	2	6xPBFC5010
-	-	2400	2400	2000	60X10	PBHB2145	2	6xPBFC6010
-	-	3200	3200	2500	80X10	PBHB2145	2	6xPBFC8010
-	-	3200	3200	2500	80X5	PBHB2145	4	12xPBFC8005
-	-	3200	3900	3200	100X10	PBHB2145	2	6xPBFC1001
-	-	3200	4100	3200	100X5	PBHB2145	4	12xPBFC1005
-	-	3200	4200	4000	120X10	PBHB3121	3	9xPBFC1201
-	-	3200	5600	5000	160X10	PBHB3121	3	9xPBFC1601
-	-	3200	7000	7000	200X10	PBHB3121	3	9xPBFC2001
<b>IP40/41 Blind &amp; IP65</b>								
250	250	250	250	250	20X5	PBHB1125	1	3xPBFC2005
313	313	313	313	400	25X5	PBHB1125	1	3xPBFC2505
400	400	400	400	400	32X5	PBHB1125	1	3xPBFC3205
500	500	500	500	630	40X5	PBHB1125	1	3xPBFC4005
625	625	625	625	630	50X5	PBHB1125	1	3xPBFC5005
713	713	713	713	800	30X10	PBHB1125	1	3xPBFC3010
788	788	788	788	800	63X5	PBHB1125	1	3xPBFC6305
950	950	950	950	1000	40X10	PBHB1125	1	3xPBFC4010
950	950	950	950	1000	40X5	PBHB1125	2	6xPBFC4005
1000	1000	1000	1000	1000	80X5	PBHB1125	1	3xPBFC8005
1188	1188	1188	1188	1250	50X10	PBHB1125	1	3xPBFC5010
1250	1250	1250	1250	1250	100X5	PBHB1125	1	3xPBFC1005
1600	1600	1900	1900	1600	80X10	PBHB1125	1	3xPBFC8010
1600	1600	1900	1900	1600	100X10	PBHB1125	1	3xPBFC1001
1600	1600	1900	1900	1600	80X5	PBHB1125	2	6xPBFC8005
1600	1600	1900	1900	2000	100X5	PBHB1125	2	6xPBFC1005
-	-	1875	1875	2000	50X10	PBHB2145	2	6xPBFC5010
-	-	2250	2250	2000	60X10	PBHB2145	2	6xPBFC6010
-	-	2500	2720	2500	80X5	PBHB2145	4	12xPBFC8005
-	-	2500	3000	2500	80X10	PBHB2145	2	6xPBFC8010
-	-	2500	3400	3200	100X10	PBHB2145	2	6xPBFC1001
-	-	2500	3400	3200	100X5	PBHB2145	4	12xPBFC1005
-	-	2500	4052	4000	120X10	PBHB3121	3	9xPBFC1201

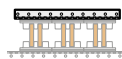
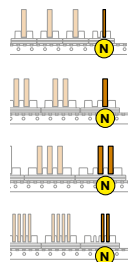




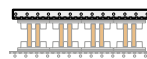
4 Poles  
Busbar for N at 100%



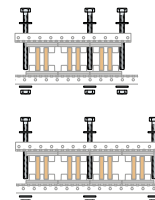
4 Poles  
Busbar for N at 50%



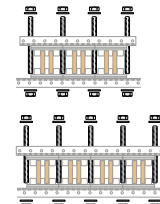
Closing crosspiece  
3-pole busbar  
holders 1 piece



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
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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

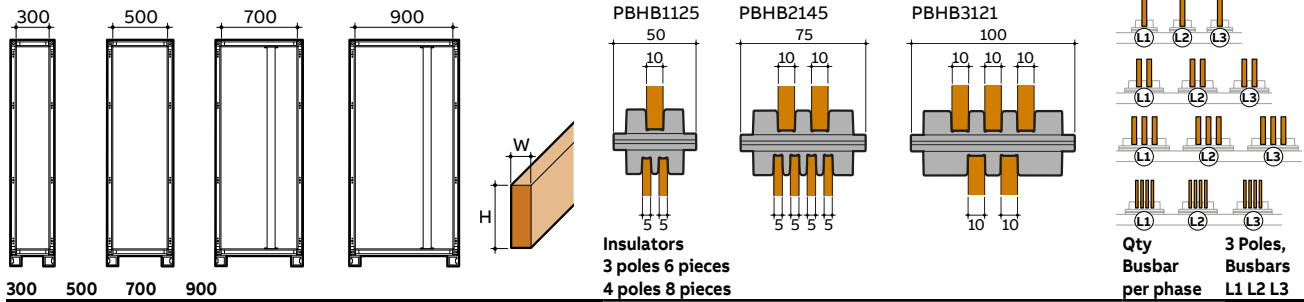
# Main distribution systems

## Selection guides

### LINEAR SYSTEM - FLAT COPPER BUSBARS, SPACED INSULATORS

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

Structure depth (mm)



Recommended minimum enclosure functional depth  
3/4 poles busbar system, insulators in spaced configuration <sup>(4)</sup>

Section busbar  
H x W (mm)

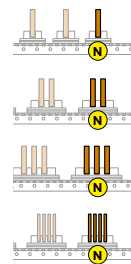
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No.

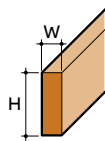
code

leff (A)		In (A)						
<b>IP30/31 Aerated</b>								
292 <sup>(1)</sup>	292 <sup>(1)</sup>	292	292	250	20X5	PBHB1125	1	3xPBFC2005
365 <sup>(1)</sup>	365 <sup>(1)</sup>	365	365	400	25X5	PBHB1125	1	3xPBFC2505
467 <sup>(1)</sup>	467 <sup>(1)</sup>	467	467	400	32X5	PBHB1125	1	3xPBFC3205
584 <sup>(1)</sup>	584 <sup>(1)</sup>	584	584	630	40X5	PBHB1125	1	3xPBFC4005
730 <sup>(1)</sup>	730 <sup>(1)</sup>	730	730	630	50X5	PBHB1125	1	3xPBFC5005
788 <sup>(1)</sup>	788 <sup>(1)</sup>	788	788	800	63X5	PBHB1125	1	3xPBFC6305
876 <sup>(1)</sup>	876 <sup>(1)</sup>	876	876	800	30X10	PBHB1125	1	3xPBFC3010
1000 <sup>(1)</sup>	1000 <sup>(1)</sup>	1000	1000	1000	80X5	PBHB1125	1	3xPBFC8005
1168 <sup>(1)</sup>	1168 <sup>(1)</sup>	1168	1168	1000	40X10	PBHB1125	1	3xPBFC4010
1168 <sup>(1)</sup>	1168 <sup>(1)</sup>	1168	1168	1000	40X5	PBHB1125	2	6xPBFC4005
1460 <sup>(1)</sup>	1460 <sup>(1)</sup>	1460	1460	1250	50X10	PBHB1125	1	3xPBFC5010
1460 <sup>(1)</sup>	1460 <sup>(1)</sup>	1460	1460	1250	100x5	PBHB1125	1	3xPBFC1005
1600 <sup>(1)</sup>	1600 <sup>(1)</sup>	2000	2000	1600	80X10	PBHB1125	1	3xPBFC8010
1600 <sup>(1)</sup>	1600 <sup>(1)</sup>	2000	2000	1600	80X5	PBHB1125	2	6xPBFC8005
1600 <sup>(1)</sup>	1600 <sup>(1)</sup>	2120	2120	2000	100X5	PBHB1125	2	6xPBFC1005
-	-	2120	2120	2000	50X10	PBHB2145	2	6xPBFC5010
-	-	2400	2400	2000	60X10	PBHB2145	2	6xPBFC6010
-	-	3200	3200	2500	80X10	PBHB2145	2	6xPBFC8010
-	-	3200	3200	2500	80X5	PBHB2145	4	12xPBFC8005
-	-	3200 <sup>(2)</sup>	3900	3200	100X10	PBHB2145	2	6xPBFC1001
-	-	3200 <sup>(2)</sup>	4100	3200	100X5	PBHB2145	4	12xPBFC1005
-	-	3200 <sup>(2)</sup>	4200	4000	120X10	PBHB3121	3	9xPBFC1201
-	-	3200 <sup>(2)</sup>	5600	5000	160X10	PBHB3121	3	9xPBFC1601
-	-	3200 <sup>(2)</sup>	7000	7000	200X10	PBHB3121	3	9xPBFC2001
<b>IP40/41 Blind &amp; IP65</b>								
250 <sup>(1)</sup>	250 <sup>(1)</sup>	250	250	250	20X5	PBHB1125	1	3xPBFC2005
313 <sup>(1)</sup>	313 <sup>(1)</sup>	313	313	400	25X5	PBHB1125	1	3xPBFC2505
400 <sup>(1)</sup>	400 <sup>(1)</sup>	400	400	400	32X5	PBHB1125	1	3xPBFC3205
500 <sup>(1)</sup>	500 <sup>(1)</sup>	500	500	630	40X5	PBHB1125	1	3xPBFC4005
625 <sup>(1)</sup>	625 <sup>(1)</sup>	625	625	630	50X5	PBHB1125	1	3xPBFC5005
713 <sup>(1)</sup>	713 <sup>(1)</sup>	713	713	800	30X10	PBHB1125	1	3xPBFC3010
788 <sup>(1)</sup>	788 <sup>(1)</sup>	788	788	800	63X5	PBHB1125	1	3xPBFC6305
950 <sup>(1)</sup>	950 <sup>(1)</sup>	950	950	1000	40X10	PBHB1125	1	3xPBFC4010
950 <sup>(1)</sup>	950 <sup>(1)</sup>	950	950	1000	40X5	PBHB1125	2	6xPBFC4005
1000 <sup>(1)</sup>	1000 <sup>(1)</sup>	1000	1000	1000	80X5	PBHB1125	1	3xPBFC8005
1188 <sup>(1)</sup>	1188 <sup>(1)</sup>	1188	1188	1250	50X10	PBHB1125	1	3xPBFC5010
1250 <sup>(1)</sup>	1250 <sup>(1)</sup>	1250	1250	1250	100x5	PBHB1125	1	3xPBFC1005
1600 <sup>(1)</sup>	1600 <sup>(1)</sup>	1900	1900	1600	80X10	PBHB1125	1	3xPBFC8010
1600 <sup>(1)</sup>	1600 <sup>(1)</sup>	1900	1900	1600	100X10	PBHB1125	1	3xPBFC1001
1600 <sup>(1)</sup>	1600 <sup>(1)</sup>	1900	1900	1600	80X5	PBHB1125	2	6xPBFC8005
1600 <sup>(1)</sup>	1600 <sup>(1)</sup>	1900	1900	2000	100X5	PBHB1125	2	6xPBFC1005
-	-	1875	1875	2000	50X10	PBHB2145	2	6xPBFC5010
-	-	2250	2250	2000	60X10	PBHB2145	2	6xPBFC6010
-	-	2500	2720	2500	80X5	PBHB2145	4	12xPBFC8005
-	-	2500	3000	2500	80X10	PBHB2145	2	6xPBFC8010
-	-	2500	3400	3200	100X10	PBHB2145	2	6xPBFC1001
-	-	2500	3400	3200	100X5	PBHB2145	4	12xPBFC1005
-	-	2500 <sup>(3)</sup>	4052	4000	120X10	PBHB3121	3	9xPBFC1201

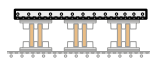
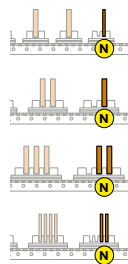
<sup>(1)</sup> only 3 poles configuration fits, 4 poles does not fit. <sup>(2)</sup> only for In below 4000A otherwise use PCRS0338. <sup>(3)</sup> only for In below 4000A otherwise use PCRS0438.  
<sup>(4)</sup> Insulator clearances pag 4-24.



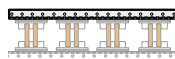
**4 Poles  
Busbar for N at 100%**



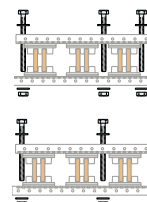
**4 Poles  
Busbar for N at 50%**



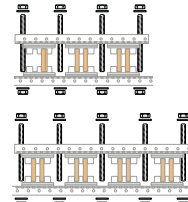
**Closing crosspiece  
3-pole busbar  
holders 1 piece**



**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	PCRM0338	1xPBFC4005	PTRA0045	-
2	PCRM0238	40X5	1	2xPBFC4005	PCRM0338	1xPBFC4005	PTRA0045	-
1	PCRM0238	50X5	1	1xPBFC5010	PCRM0338	1xPBFC5005	PTRA0075	-
1	PCRM0238	-	-	1xPBFC1005	PCRM0338	-	PTRA0100	-
1	PCRM0238	80X5	1	1xPBFC8010	PCRM0338	1xPBFC8005	PTRA0100	-
2	PCRM0238	-	-	2xPBFC8005	PCRM0338	-	PTRA0100	-
2	PCRM0238	100X5	1	2xPBFC1005	PCRM0338	1xPBFC1005	PTRA0100	-
2	PCRM0338	50X10	1	2xPBFC5010	PCRM0438	1xPBFC5010	PTRA0075	-
2	PCRM0338	60X10	1	2xPBFC6010	PCRM0438	1xPBFC6010	PTRA0075	-
2	PCRM0338	80X10	1	2xPBFC8010	PCRM0438	1xPBFC8010	PTRA0100	-
4	PCRM0338	80X5	2	4xPBFC8005	PCRM0438	1xPBFC8005	PTRA0100	-
2	PCRM0338	100X10	1	2xPBFC1001	PCRM0438	1xPBFC1001	PTRA0100	-
4	PCRM0338 <sup>(2)</sup>	100X5	2	4xPBFC1005	PCRM0438	2xPBFC1005	PTRA0100	-
3	PCRM0438 <sup>(3)</sup>	120X10	2	3xPBFC1201	PCRS0588	2xPBFC1201	-	PTRS 1201
3	PCRM0438 <sup>(3)</sup>	160X10	2	3xPBFC1601	PCRS0588	2xPBFC1601	-	PTRS1601
3	PCRM0438 <sup>(3)</sup>	200X10	2	3xPBFC2001	PCRS0588	2xPBFC2001	-	PTRS2001

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	-	-	1xPBFC3010	PCRM0338	-	PTRA0045	-
1	PCRM0238	-	-	1xPBFC6305	PCRM0338	-	PTRA0075	-
1	PCRM0238	40X5	1	1xPBFC4010	PCRM0338	1xPBFC4005	PTRA0045	-
2	PCRM0238	40X5	1	2xPBFC4005	PCRM0338	1xPBFC4005	PTRA0045	-
1	PCRM0238	-	-	1xPBFC8005	PCRM0338	-	PTRA0100	-
1	PCRM0238	50X5	1	1xPBFC5010	PCRM0338	1xPBFC5005	PTRA0075	-
1	PCRM0238	-	-	1xPBFC1005	PCRM0338	-	PTRA0100	-
1	PCRM0238	80X5	1	1xPBFC8010	PCRM0338	1xPBFC8005	PTRA0100	-
1	PCRM0238	100X5	1	1xPBFC1001	PCRM0338	1xPBFC1005	PTRA0100	-
2	PCRM0238	-	-	2xPBFC8005	PCRM0338	-	PTRA0100	-
2	PCRM0238	100X5	1	2xPBFC1005	PCRM0338	1xPBFC1005	PTRA0100	-
2	PCRM0338	50X10	1	2xPBFC5010	PCRM0438	1xPBFC5010	PTRA0075	-
2	PCRM0338	60X10	1	2xPBFC6010	PCRM0438	1xPBFC6010	PTRA0075	-
4	PCRM0338	80X5	2	4xPBFC8005	PCRM0438	2xPBFC8005	PTRA0100	-
2	PCRM0338	80X10	1	2xPBFC8010	PCRM0438	1xPBFC8010	PTRA0100	-
2	PCRM0338	100X10	1	2xPBFC1001	PCRM0438	1xPBFC1001	PTRA0100	-
4	PCRM0338	100X5	2	4xPBFC1005	PCRM0438	2xPBFC1005	PTRA0100	-
3	PCRM0438 <sup>(3)</sup>	120X10	2	3xPBFC1201	PCRS0588	2xPBFC1201	-	PTRS 1201

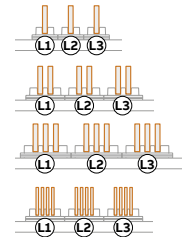
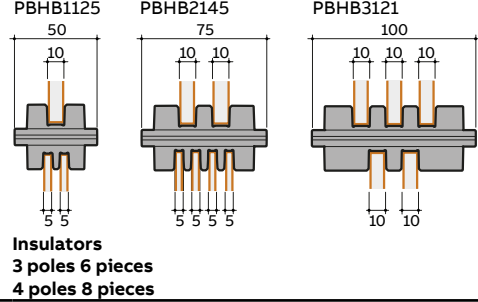
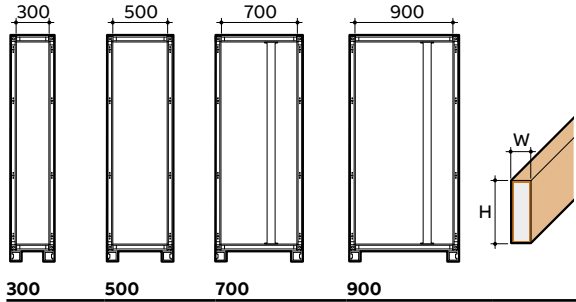
# Main distribution systems

## Selection guides

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

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

Structure depth (mm)

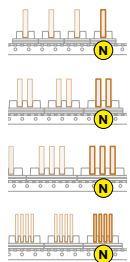


Qty Busbar per phase      3 Poles, Busbars L1 L2 L3

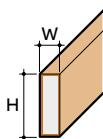
Recommended minimum enclosure functional depth  
3/4 poles busbar system, insulators in packed configuration

Section busbar  
H x W (mm)      code

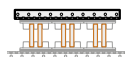
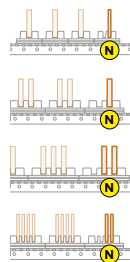
In (A) IP30/31 Aerated				No.	code
250	250	250	250	1	3xPBFA2005
400	400	400	400	1	3xPBFA3005
630	630	630	630	1	3xPBFA5005
800	800	800	800	1	3xPBFA4010
1000	1000	1000	1000	1	3xPBFA5010
1000	1000	1000	1000	2	6xPBFA4005
1250	1250	1250	1250	1	3xPBFA7510
1250	1250	1250	1250	2	6xPBFA6005
1600	1600	1600	1600	2	6xPBFA8005
1600	1600	2000	2000	1	3xPBFA1201
-	-	2000	2000	4	12xPBFA5005
-	-	2500	2500	2	6xPBFA8010
-	-	2500	2500	4	12xPBFA8005
-	-	3200	3200	2	6xPBFA1201
In (A) IP40/41 Blind & IP65				No.	code
250	250	250	250	1	3xPBFA2505
400	400	400	400	1	3xPBFA4005
630	630	630	630	1	3xPBFA6005
800	800	800	800	1	3xPBFA8005
1000	1000	1000	1000	2	6xPBFA5005
1250	1250	1250	1250	1	3xPBFA8010
1600	1600	1600	1600	1	3xPBFA1001
-	-	2000	2000	2	6xPBFA7510
-	-	2500	2500	2	6xPBFA1001
-	-	2500	3200	3	9xPBFA1001



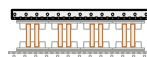
4 Poles Busbar for N at 100%



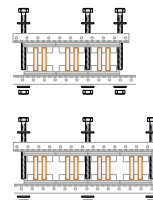
4 Poles Busbar for N at 50%



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	1xPBFA2005	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBFA3005	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBFA5005	-	-	-	PCRM0188	PCRM0238	PTRA0075	-
1	1xPBFA4010	40x5	1	1xPBFA4005	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBFA5010	50x5	1	1xPBFA5005	PCRM0188	PCRM0238	PTRA0075	-
2	2xPBFA4005	40x5	1	1xPBFA4005	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBFA7510	-	-	-	PCRM0188	PCRM0238	PTRA0075	-
2	2xPBFA6005	60x5	1	1xPBFA6005	PCRM0188	PCRM0238	PTRA0075	-
2	2xPBFA8005	80x5	1	1xPBFA8005	PCRM0188	PCRM0238	PTRA0100	-
1	1xPBFA1201	-	-	-	PCRM0188	PCRM0238	PTRA0120	-
4	4xPBFA5005	50x5	2	2xPBFA5005	PCRM0288	PCRM0338	PTRA0075	-
2	2xPBFA8010	80x10	1	1xPBFA8010	PCRM0288	PCRM0338	PTRA0100	-
4	4xPBFA8005	80x5	2	2xPBFA8005	PCRM0288	PCRM0338	PTRA0100	-
2	2xPBFA1201	120x10	1	1xPBFA1201	PCRM0288	PCRM0338	PTRA0120	-
<hr/>								
1	1xPBFA2505	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBFA4005	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBFA6005	-	-	-	PCRM0188	PCRM0238	PTRA0075	-
1	1xPBFA8005	-	-	-	PCRM0188	PCRM0238	PTRA0100	-
2	2xPBFA5005	50x5	1	1xPBFA5005	PCRM0188	PCRM0238	PTRA0075	-
1	1xPBFA8010	80x5	1	1xPBFA8005	PCRM0188	PCRM0238	PTRA0100	-
1	1xPBFA1001	-	-	-	PCRM0188	PCRM0238	PTRA0100	-
2	2xPBFA7510	75x10	1	1xPBFA7510	PCRM0288	PCRM0338	PTRA0075	-
2	2xPBFA1001	100x10	1	1xPBFA1001	PCRM0288	PCRM0338	PTRA0100	-
3	3xPBFA1001	100x10	2	2xPBFA1001	PCRM0388	PCRM0438	PTRA0100	-

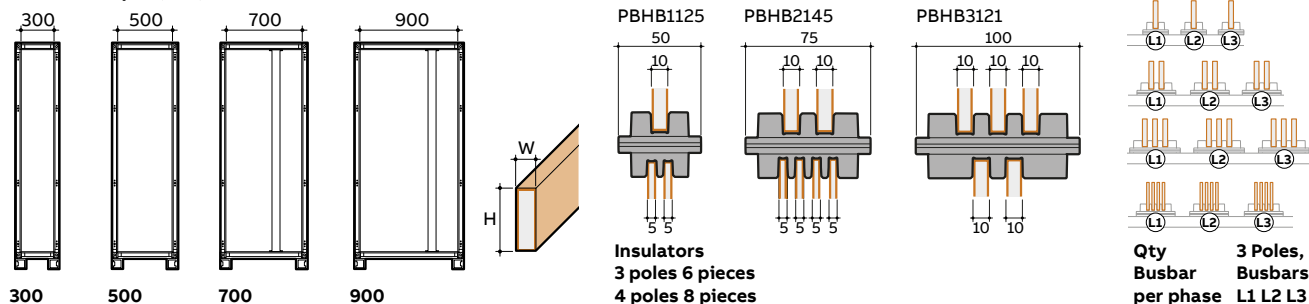
# Main distribution systems

## 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**

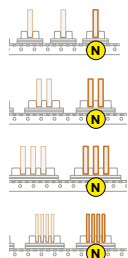
**Insulators**  
 3 poles 6 pieces  
 4 poles 8 pieces

**Qty Busbar per phase**      **3 Poles, Busbars L1 L2 L3**

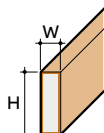
**Recommended minimum enclosure functional depth 3/4 poles busbar system, insulators in spaced configuration (2)**

In (A) IP30/31 Aerated				Section busbar H x W (mm)	code	No.	code
250 <sup>(1)</sup>	250 <sup>(1)</sup>	250	250	20x5	PBHB1125	1	3xPBFA2005
400 <sup>(1)</sup>	400 <sup>(1)</sup>	400	400	30x5	PBHB1125	1	3xPBFA3005
630 <sup>(1)</sup>	630 <sup>(1)</sup>	630	630	50x5	PBHB1125	1	3xPBFA5005
800 <sup>(1)</sup>	800 <sup>(1)</sup>	800	800	40x10	PBHB1125	1	3xPBFA4010
1000 <sup>(1)</sup>	1000 <sup>(1)</sup>	1000	1000	50x10	PBHB1125	1	3xPBFA5010
1000 <sup>(1)</sup>	1000 <sup>(1)</sup>	1000	1000	40x5	PBHB1125	2	6xPBFA4005
1250 <sup>(1)</sup>	1250 <sup>(1)</sup>	1250	1250	75x10	PBHB1125	1	3xPBFA7510
1250 <sup>(1)</sup>	1250 <sup>(1)</sup>	1250	1250	60x5	PBHB1125	2	6xPBFA6005
1600 <sup>(1)</sup>	1600 <sup>(1)</sup>	1600	1600	80x5	PBHB1125	2	6xPBFA8005
1600 <sup>(1)</sup>	1600 <sup>(1)</sup>	2000	2000	120x10	PBHB1125	1	3xPBFA1201
-	-	2000	2000	50x5	PBHB2145	4	12xPBFA5005
-	-	2500	2500	80x10	PBHB2145	2	6xPBFA8010
-	-	2500	2500	80x5	PBHB2145	4	12xPBFA8005
-	-	3200	3200	120x10	PBHB2145	2	6xPBFA1201
In (A) IP40/41 Blind & IP65							
250 <sup>(1)</sup>	250 <sup>(1)</sup>	250	250	25x5	PBHB1125	1	3xPBFA2505
400 <sup>(1)</sup>	400 <sup>(1)</sup>	400	400	40x5	PBHB1125	1	3xPBFA4005
630 <sup>(1)</sup>	630 <sup>(1)</sup>	630	630	60x5	PBHB1125	1	3xPBFA6005
800 <sup>(1)</sup>	800 <sup>(1)</sup>	800	800	80x5	PBHB1125	1	3xPBFA8005
1000 <sup>(1)</sup>	1000 <sup>(1)</sup>	1000	1000	50x5	PBHB1125	2	6xPBFA5005
1250 <sup>(1)</sup>	1250 <sup>(1)</sup>	1250	1250	80x10	PBHB1125	1	3xPBFA8010
1600 <sup>(1)</sup>	1600 <sup>(1)</sup>	1600	1600	100x10	PBHB1125	1	3xPBFA1001
-	-	2000	2000	75x10	PBHB2145	2	6xPBFA7510
-	-	2500	2500	100x10	PBHB2145	2	6xPBFA1001
-	-	2500 <sup>(1)</sup>	3200	100x10	PBHB3121	3	9xPBFA1001

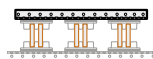
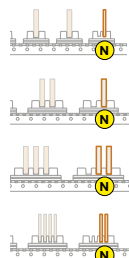
<sup>(1)</sup> only 3 poles configuration fits, 4 poles does not fit. <sup>(2)</sup> Insulator clearances pag 4-24.



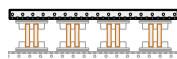
4 Poles Busbar for N at 100%



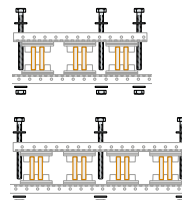
4 Poles Busbar for N at 50%



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	1xPBFA2005	-	-	-	PCRM0238	PCRM0338	PTRA0045	-
1	1xPBFA3005	-	-	-	PCRM0238	PCRM0338	PTRA0045	-
1	1xPBFA5005	-	-	-	PCRM0238	PCRM0338	PTRA0075	-
1	1xPBFA4010	40x5	1	1xPBFA4005	PCRM0238	PCRM0338	PTRA0045	-
1	1xPBFA5010	50x5	1	1xPBFA5005	PCRM0238	PCRM0338	PTRA0075	-
2	2xPBFA4005	40x5	1	1xPBFA4005	PCRM0238	PCRM0338	PTRA0045	-
1	1xPBFA7510	-	-	-	PCRM0238	PCRM0338	PTRA0075	-
2	2xPBFA6005	60x5	1	1xPBFA6005	PCRM0238	PCRM0338	PTRA0075	-
2	2xPBFA8005	80x5	1	1xPBFA8005	PCRM0238	PCRM0338	PTRA0100	-
1	1xPBFA1201	-	-	-	PCRM0238	PCRM0338	PTRA0120	-
4	4xPBFA5005	50x5	2	2xPBFA5005	PCRM0338	PCRM0438	PTRA0075	-
2	2xPBFA8010	80x10	1	1xPBFA8010	PCRM0338	PCRM0438	PTRA0100	-
4	4xPBFA8005	80x5	2	2xPBFA8005	PCRM0338	PCRM0438	PTRA0100	-
2	2xPBFA1201	120x10	1	1xPBFA1201	PCRM0338	PCRM0438	PTRA0120	-
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1	1xPBFA2505	-	-	-	PCRM0238	PCRM0338	PTRA0045	-
1	1xPBFA4005	-	-	-	PCRM0238	PCRM0338	PTRA0045	-
1	1xPBFA6005	-	-	-	PCRM0238	PCRM0338	PTRA0075	-
1	1xPBFA8005	-	-	-	PCRM0238	PCRM0338	PTRA0100	-
2	2xPBFA5005	50x5	1	1xPBFA5005	PCRM0238	PCRM0338	PTRA0075	-
1	1xPBFA8010	80x5	1	1xPBFA8005	PCRM0238	PCRM0338	PTRA0100	-
1	1xPBFA1001	-	-	-	PCRM0238	PCRM0338	PTRA0100	-
2	2xPBFA7510	75x10	1	1xPBFA7510	PCRM0338	PCRM0438	PTRA0075	-
2	2xPBFA1001	100x10	1	1xPBFA1001	PCRM0338	PCRM0438	PTRA0100	-
3	3xPBFA1001	100x10	2	2xPBFA1001	PCRM0438	PCRM0588	PTRA0100	-

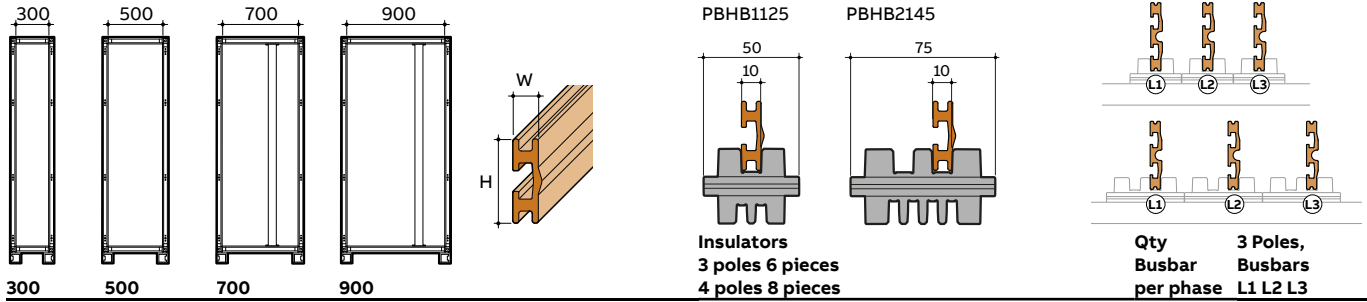
# Main distribution systems

## Selection guides

### LINEAR SYSTEM - SHAPED BUSBARS, NON-SPACED INSULATORS

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

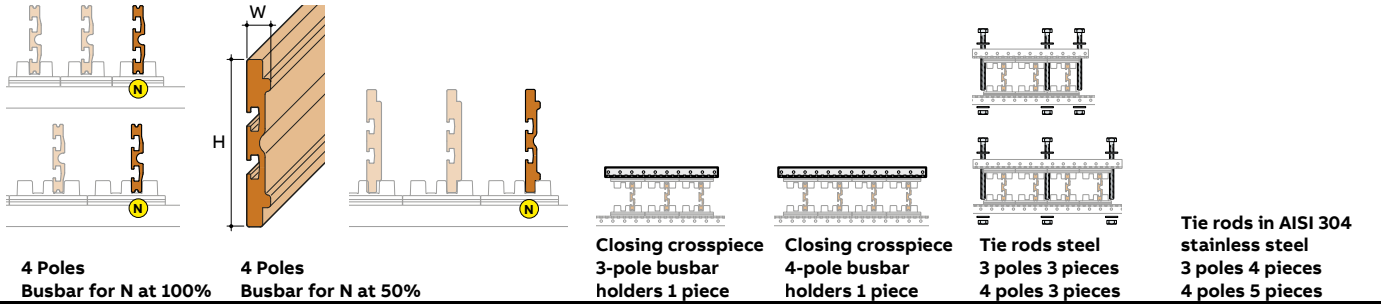
**Structure depth (mm)**



**Recommended minimum enclosure functional depth 3/4 poles busbar system, insulators in packed configuration**

Structure depth (mm)				Section busbar H x W (mm)	mm <sup>2</sup>	code	No.	code
<b>In (A) IP30/31 Aerated</b>								
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
<b>In (A) IP40/41 Blind</b>								
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
<b>In (A) IP65</b>								
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





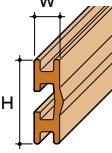
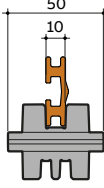
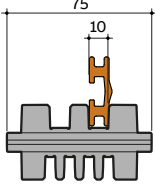
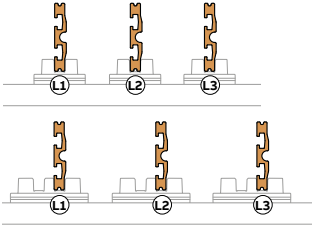
Qty Busbar		Section busbar H x W (mm)	Qty Busbar		code	code	code	code
No.	code		No.	code				
1	1xPBSC0400	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBSC0630	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBSC0800	-	-	-	PCRM0188	PCRM0238	PTRA0045	-
1	1xPBSC1000	-	-	-	PCRM0188	PCRM0238	PTRA0075	-
1	1xPBSC1250	-	-	-	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	-

# Main distribution systems

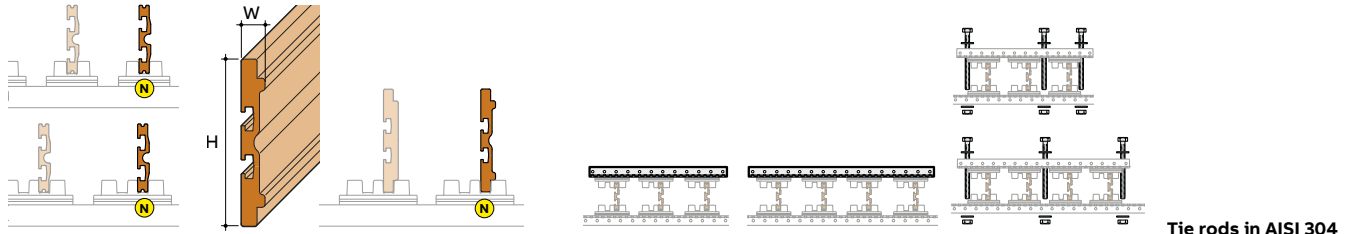
## Selection guides

### LINEAR SYSTEM - SHAPED BUSBARS, SPACED INSULATORS

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

Structure depth (mm)					PBHB1125 	PBHB2145 		Qty Busbar per phase	3 Poles, Busbars L1 L2 L3
300	500	700	900						
300	500	700	900						
<b>Recommended minimum enclosure functional depth 3/4 poles busbar system, insulators in spaced configuration <sup>(2)</sup></b>				<b>Section busbar H x W (mm)</b>	<b>mm<sup>2</sup></b>	<b>code</b>	<b>No.</b>	<b>code</b>	
<b>In (A) IP30/31 Aerated</b>									
475 <sup>(1)</sup>	475 <sup>(1)</sup>	475	475	30x10	165	PBHB1125	1	3xPBSC0400	
655 <sup>(1)</sup>	655 <sup>(1)</sup>	655	655	35x10	208	PBHB1125	1	3xPBSC0630	
958 <sup>(1)</sup>	958 <sup>(1)</sup>	958	958	45x10	325	PBHB1125	1	3xPBSC0800	
1342 <sup>(1)</sup>	1342 <sup>(1)</sup>	1342	1342	67x10	455	PBHB1125	1	3xPBSC1000	
1418 <sup>(1)</sup>	1418 <sup>(1)</sup>	1418	1418	70x10	520	PBHB1125	1	3xPBSC1250	
1600 <sup>(1)</sup>	1600 <sup>(1)</sup>	1857	1857	95x10	775	PBHB1125	1	3xPBSC1600	
-	-	2354	2354	105x15	995	PBHB2145	1	3xPBSC2000	
-	-	2860	2860	105x15	1250	PBHB2145	1	3xPBSC2500	
<b>In (A) IP40/41 Blind</b>									
440 <sup>(1)</sup>	440 <sup>(1)</sup>	440	440	30x10	165	PBHB1125	1	3xPBSC0400	
643 <sup>(1)</sup>	643 <sup>(1)</sup>	643	643	35x10	208	PBHB1125	1	3xPBSC0630	
840 <sup>(1)</sup>	840 <sup>(1)</sup>	840	840	45x10	325	PBHB1125	1	3xPBSC0800	
1220 <sup>(1)</sup>	1220 <sup>(1)</sup>	1220	1220	67x10	455	PBHB1125	1	3xPBSC1000	
1338 <sup>(1)</sup>	1338 <sup>(1)</sup>	1338	1338	70x10	520	PBHB1125	1	3xPBSC1250	
1600 <sup>(1)</sup>	1600 <sup>(1)</sup>	1744	1744	95x10	775	PBHB1125	1	3xPBSC1600	
-	-	2200	2200	105x15	995	PBHB2145	1	3xPBSC2000	
-	-	2500	2750	105x15	1250	PBHB2145	1	3xPBSC2500	
<b>In (A) IP65</b>									
400 <sup>(1)</sup>	400 <sup>(1)</sup>	400	400	30x10	165	PBHB1125	1	3xPBSC0400	
630 <sup>(1)</sup>	630 <sup>(1)</sup>	630	630	35x10	208	PBHB1125	1	3xPBSC0630	
800 <sup>(1)</sup>	800 <sup>(1)</sup>	800	800	45x10	325	PBHB1125	1	3xPBSC0800	
1000 <sup>(1)</sup>	1000 <sup>(1)</sup>	1000	1000	67x10	455	PBHB1125	1	3xPBSC1000	
1250 <sup>(1)</sup>	1250 <sup>(1)</sup>	1250	1250	70x10	520	PBHB1125	1	3xPBSC1250	
1600 <sup>(1)</sup>	1600 <sup>(1)</sup>	1600	1600	95x10	775	PBHB1125	1	3xPBSC1600	
-	-	2000	2000	105x15	995	PBHB2145	1	3xPBSC2000	
-	-	2500	2500	105x15	1250	PBHB2145	1	3xPBSC2500	

<sup>(1)</sup> only 3 poles configuration fits, 4 poles does not fit. <sup>(2)</sup> 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		Section busbar H x W (mm)	Qty Busbar		code	code	code	code
No.	code		No.	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	-
<hr/>								
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	-
<hr/>								
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

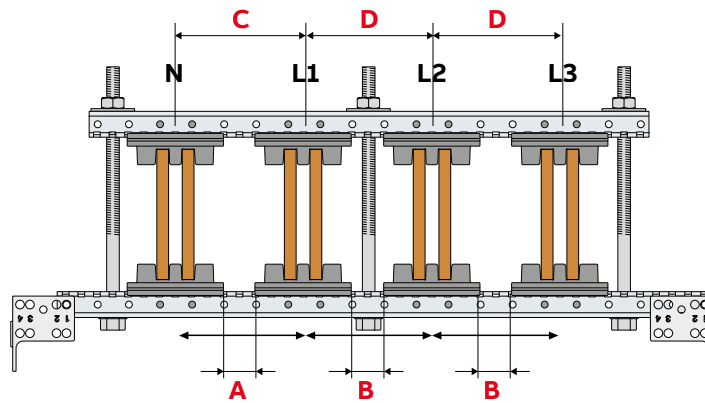
## Selection guides

### 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:

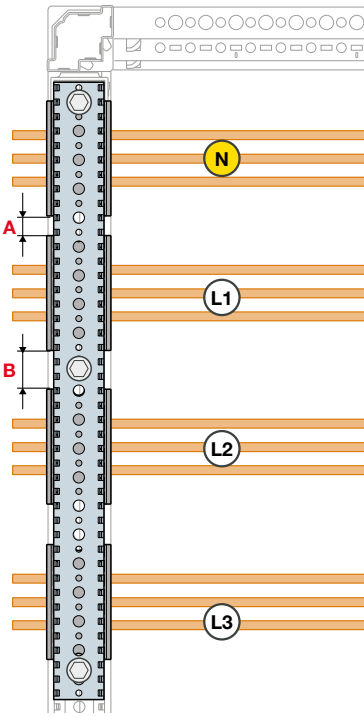
- to facilitate the connections from the circuit-breaker terminals towards the omnibus busbar system;
- For details consult Chapter 7- Examples of connections from circuit-breaker towards omnibus busbars.

- 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).

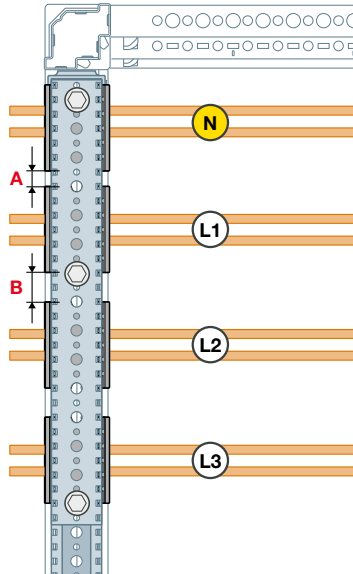


Omnibus rated current [A]	Number of busbars per phase/thickness 10 mm	Recommended useful depth of structure [mm]	Insulator	Neutral	Neutral-L1	Phases - L1 L2 L3	Phases - L1 L2 L3
				Insulator clearance - A [mm]	Pitch between Neutral and L1 - C [mm]	Insulator clearance - B [mm]	Pitch between phases - 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

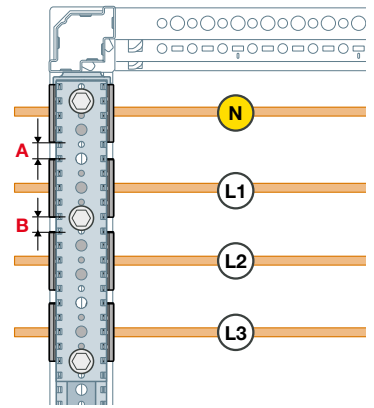
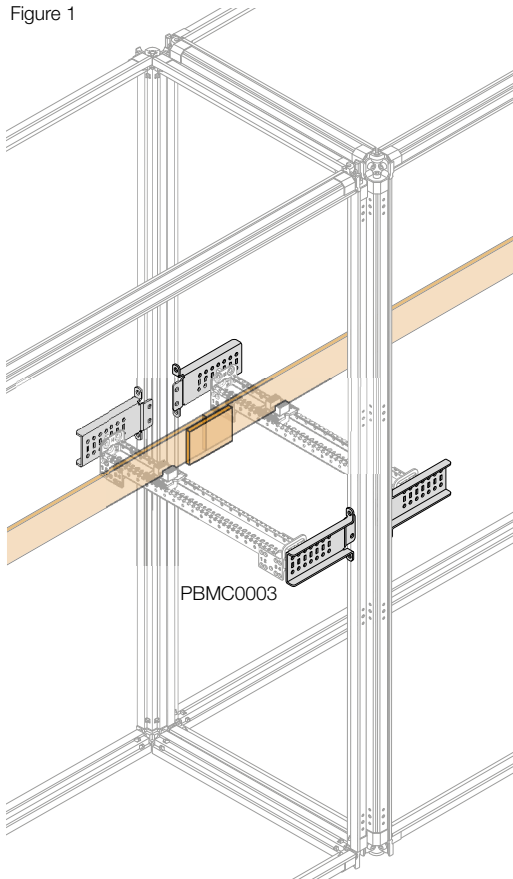
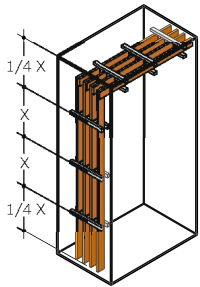


Figure 1



# 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 length of the busbar.

### LINEAR SYSTEM - FLAT BUSBARS AND SHAPED BUSBARS

Choice and assembly of the number of busbar holders, in relation to maximum  $I_{cw}$

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  $I_{cw}$ .

### Copper busbars

Description						No. busbar holders Length =1750mm in relation to $I_{cw}$ max						
Capacity $I_n$ (A)			Number of busbars per phase	Section Busbar (mm)x(mm)	mm <sup>2</sup>	Busbar	Insulators	15 kA	20 kA	25 kA	36 kA	50 kA
IP30/31 Areato	IP40/41 Cieco	IP65						X max (mm)	X max (mm)	X max (mm)	X max (mm)	X max (mm)
<b>FLAT BUSBAR <math>I_n</math>(A)</b>												
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
<b>SHAPED BUSBARS</b>												
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

**Cuponal busbars**

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	-	-	-

Description					No. busbar holders Lenght =1750mm in relation to lcw 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)
<b>IP30/31 Aerated</b>									
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
<b>IP40/41 Blind &amp; IP65</b>									
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 <sup>(1)</sup>

PBBU0008

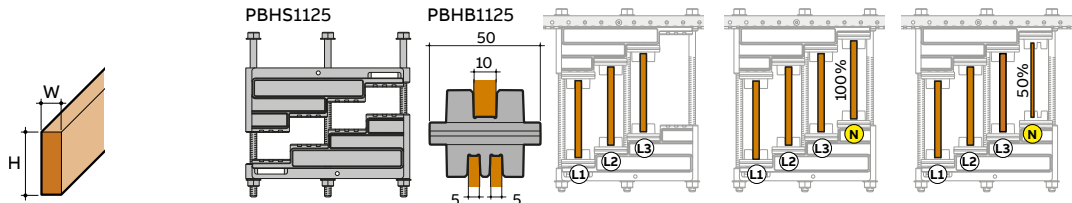
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**CROSSPIECES FOR BUSBAR HOLDERS (1 piece per busbar holder)**

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

<sup>(1)</sup> Use busbars with 50x10mm maximum section for structures with internal cable compartment W=200mm.

Choice of busbar holders in relation to rated current  $I_n$  (A) and IP protection class. Copper busbars.



Capacity $I_n$ (A)	Number of busbars per phase	HxW (mm)	Switchboard installation Minimum depth (mm)		3/4-pole insulator complete with tie rods <sup>(1)</sup>	Insulators 6 pieces for 3 poles 8 pieces for 4 poles <sup>(2)</sup>	3 poles			4 poles		
			D $\geq$ 300	D $\geq$ 700			Busbars L1 L2 L3	Busbars L1 L2 L3	x100% Neutral	Busbars L1 L2 L3+ x50% Neutral		
<b>IP30 / IP31</b>												
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
<b>IP40 / IP41 / 65</b>												
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		

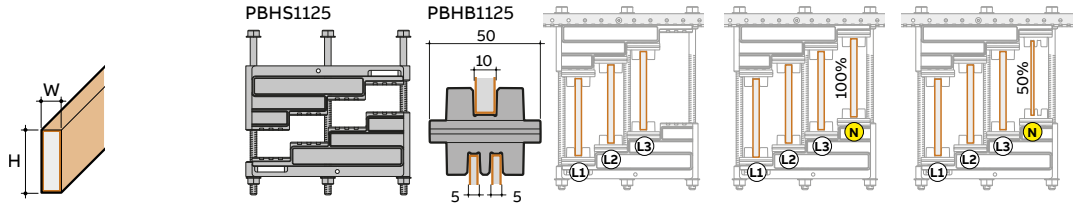
<sup>(1)</sup> The Pkg contains 1 scaled busbar holder provided with nylon tie-rods.

<sup>(2)</sup> The Pkg contains 24 pieces.



### SCALED SYSTEM-FLAT BUSBARS

Choice of busbar holders in relation to rated current  $I_n$  (A) and IP protection class. Cuponal busbars.



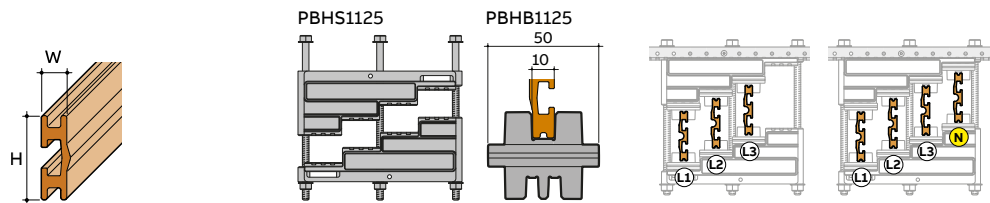
Capacity $I_n$ (A)	Number of busbars per phase	HxW (mm)	Switchboard installation Minimum depth (mm)		3/4-pole insulator complete with tie rods <sup>(1)</sup>	Insulators 6 pieces for 3 poles 8 pieces for 4 poles <sup>(2)</sup>	3 poles			4 poles			
			D $\geq$ 300	D $\geq$ 700			Busbars L1 L2 L3			Busbars L1 L2 L3+ 100% Neutral			Busbars L1 L2 L3+ x50% Neutral
<b>IP30 / IP31</b>													
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		
1000	1	50x10	✓		PBHS1125	PBHB1125	3xPBFA5010				3xPBFA5010+1xPBFA5005		
1000	2	40x5	✓		PBHS1125	PBHB1125	6xPBFA4005				7xPBFA4005		
1250	1	75x10	✓		PBHS1125	PBHB1125	3xPBFA7510				4xPBFA7510		
1250	2	60x5	✓		PBHS1125	PBHB1125	6xPBFA6005				7xPBFA6005		
1600	2	80x5	✓		PBHS1125	PBHB1125	6xPBFA8005				7xPBFA8005		
2000	1	120x10		✓	PBHS1125	PBHB1125	3xPBFA1201				4xPBFA1201		
<b>IP40 / IP41 / 65</b>													
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				7xPBFA5005		
1250	1	80x10	✓		PBHS1125	PBHB1125	3xPBFA8010				3xPBFA8010+1xPBFA8005		
1600	1	100x10	✓		PBHS1125	PBHB1125	3xPBFA1001				4xPBFA1001		

<sup>(1)</sup> The Pkg contains 1 scaled busbar holder provided with nylon tie-rods.

<sup>(2)</sup> The Pkg contains 24 pieces.

### SCALED SYSTEM - SHAPED BUSBARS

Choice of busbar holders in relation to rated current  $I_n$  (A) and IP protection class.



Capacity $I_n$ (A)	Number of busbars per phase	H x W (mm)	Section (mm <sup>2</sup> )	Switchboard installation Minimum depth (mm)		3/4-pole insulator complete with tie rods <sup>(1)</sup>	Insulators 6 pieces for 3 poles 8 pieces for 4 poles <sup>(2)</sup>	3 poles			4 poles			
				D $\geq$ 300	D $\geq$ 700			Busbars L1 L2 L3			Busbars L1 L2 L3+100% Neutral			
<b>IP30/31 IP40/41 IP65</b>														
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		

<sup>(1)</sup> The Pkg contains 1 scaled busbar holder provided with nylon tie-rods.

<sup>(2)</sup> The Pkg contains 24 pieces.

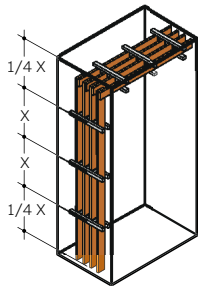
# Main distribution systems

## Selection guides

### SCALED SYSTEM - FLAT BUSBARS AND SHAPED BUSBARS

Choice and assembly of the number of busbar holders, in relation to maximum I<sub>cw</sub>

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 I<sub>cw</sub>.



The distance between the first busbar holder and the end of the busbar must not exceed 1/4 of "X", where "X" is the length of the busbar.

#### Copper busbars

Description			No. busbar holders Length =1750mm in relation to I <sub>cw</sub> 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					15 kA	X max	25 kA	X max	36 kA	X max	50 kA	X max
<b>FLAT BUSBARS</b>														
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
<b>SHAPED BUSBARS</b>														
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 l <sub>cw</sub> 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
<b>FLAT BUSBARS IP30/31</b>												
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		
<b>FLAT BUSBARS IP40/41/65</b>												
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

# Main distribution systems

## Selection guides

### Connection to the circuit breaker

Choice of the copper bars to be used for the connection to the breakers' terminals.

Terminals			Distances for the anchoring (valid for any I <sub>cw</sub> ), mm						
Configuration	Dimensions (width, holes)	Bolt, DIN933	Breaker, HR-HR (F, W)	Ampere, I <sub>r</sub> (rating)	Ampere, I <sub>eff</sub> (effective) IP65	Ampere, I <sub>eff</sub> (effective) IP 3x-4x	Flat copper cross-section	First anchoring point, immediately after terminals, mm	Any subsequent, mm
HR-HR	44mm, 2x11Ø	M10x40	XT7	1000	900		1x50x10	95	325
HR-HR	44mm, 2x11Ø	M10x50	XT7	1250	1125		2x40x10	95	325
HR-HR	44mm, 2x11Ø	M10x50	XT7	1600	1440		2x50x10	95	325
HR-HR	44mm, 2x11Ø	M10x50	E1.2	1250	1250		2x50x10	95	325
HR-HR	44mm, 2x11Ø	M10x50	E1.2	1600	1530		2x50x10	95	325
HR-HR	60mm, 2x13Ø	M12x40	E2.2	800	800		1x60x10	95	275
HR-HR	60mm, 2x13Ø	M12x40	E2.2	1000	1000		1x60x10	95	275
HR-HR	60mm, 2x13Ø	M12x50	E2.2	1250	1250		2x60x10	95	275
HR-HR	60mm, 2x13Ø	M12x50	E2.2	1600	1530		2x60x10	95	275
HR-HR	60mm, 2x13Ø	M12x60	E2.2	2000	2000		3x60x10 <sup>(1)</sup>	95	275
HR-HR	60mm, 2x13Ø	M12x70	E2.2	2500	2300		3x60x10	95	275
HR-HR	80mm, 2x13Ø	M12x60	E4.2	2000	2000		2x80x10	95	250
HR-HR	80mm, 2x13Ø	M12x60	E4.2	2500	2500		2x100x10	95	250
HR-HR	80mm, 2x13Ø	M12x70	E4.2	3200	2400	3050	3x100x10	95	250
HR-HR	80mm, 2x13Ø	M12x90	E4.2	4000	2600*	3350	4x100x10	95	250
HR-HR	80mm, 2x13Ø	M12x60	E6.2	4000	-	4000	4x100x10	90	200
HR-HR	80mm, 2x13Ø	M12x70	E6.2	5000	-	4500	5x100x10	90	200
VR-VR	80mm, 2x13Ø	M12x90	E6.2	6300	-	5400	7x100x10 + 4x160x10	35	150

<sup>(1)</sup> 2x60x10 connections and 1800A performance can be used only in non-segregated switchboard and with only one ACB per column.

\* Uncertified value.

Connection examples page 7-39/7-40.

Anchoring										
Anchoring plate	Holding bracket	Width holding crosspiece				Depth lateral mounting plate			Insulators	Bolt, DIN933
		600mm	800mm	1000mm	1250mm	500mm	700mm	900mm		
PBBE0712	PBMC0002	PCRM0588	PCRM0788			PMCS....	PMCS....	PMCS....	EV1123	M8x16
PBBE0712	PBMC0002	PCRM0588	PCRM0788			PMCS....	PMCS....	PMCS....	EV1123	M8x35
PBBE0712	PBMC0002	PCRM0588	PCRM0788			PMCS....	PMCS....	PMCS....	EV1123	M8x35
PBBE0712	PBMC0002	PCRM0588	PCRM0788			PMCS....	PMCS....	PMCS....	EV1123	M8x35
PBBE0712	PBMC0002	PCRM0588	PCRM0788			PMCS....	PMCS....	PMCS....	EV1123	M8x35
PBBE2242	PBMC0002	PCRM0588	PCRM0788			PMCS....	PMCS....	PMCS....	ZX52	M10x16
PBBE2242	PBMC0002	PCRM0588	PCRM0788			PMCS....	PMCS....	PMCS....	ZX52	M10x16
PBBE2242	PBMC0002	PCRM0588	PCRM0788			PMCS....	PMCS....	PMCS....	ZX52	M10x35
PBBE2242	PBMC0002	PCRM0588	PCRM0788			PMCS....	PMCS....	PMCS....	ZX52	M10x35
PBBE2242	PBMC0002	PCRM0588	PCRM0788			PMCS....	PMCS....	PMCS....	ZX52	M10x55
PBBE2242	PBMC0002	PCRM0588	PCRM0788				PMCS....	PMCS....	ZX52	M10x55
PBBE2242	PBMC0002	PCRM0588	PCRM0788				PMCS....	PMCS....	ZX52	M10x35
PBBE2242	PBMC0002	PCRM0588	PCRM0788				PMCS....	PMCS....	ZX52	M10x35
PBBE2242	PBMC0002	PCRM0588	PCRM0788					PMCS....	ZX52	M10x55
PBBE2242	PBMC0002	PCRM0588	PCRM0788					PMCS....	ZX52	M10x75
PBBE0062	PBMC0002			PCRM0988				PMCS....	ZX52	M10x75
PBBE0062	PBMC0002			PCRS0988	PCRS1238			PMCS....	ZX52	M10x55
PBBE0062	PBMC0002			PCRS0988	PCRS1238			PMCS....	ZX52	M10x75

# Main distribution systems

## Selection guides

### Compensators and connections for flat and shaped busbar

		Shaped busbars								
		In	400A	630A	800A	1000A	1250A	1600A	2000A	2500A
Shaped busbars	In									
	400A	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080
	630A	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080
	800A	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080
	1000A				PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016
	1250A				PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016
	1600A						PFCB1016	PFCB2025	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

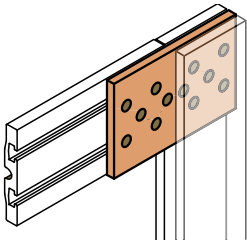
Connection between shaped busbars 2500A and flat busbars 2500A

3P busbars system	6 x PFCB2025 + 3 x PFCC0029
4P busbars system	8 x PFCB2025 + 4 x PFCC0029

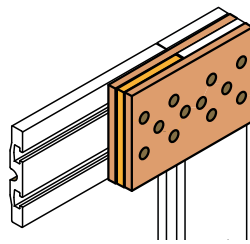
Flat busbars												
800A	1000A	1250A	1600A	2000A	2000A	2500A	3200A	3200A	4000A	5000A	6300A	
1 Busbar for phase				2 Busbars for phase				3 Busbars for phase				
PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080	PFCB4080 +PFCC0023	PFCB4080 +PFCC0023	PFCB4080 +PFCC0023	PFCB4080 +PFCC0023
PFCB4080	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 +PFCC0023
	PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016 +PFCC0023	PFCB1016 +PFCC0023	PFCB1016 +PFCC0023	PFCB1016 +PFCC0023	PFCB1016 +PFCC0023
		PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016	PFCB1016 +PFCC0023	PFCB1016 +PFCC0023	PFCB1016 +PFCC0023	PFCB1016 +PFCC0023	PFCB1016 +PFCC0023
			PFCB2025	PFCB2025	PFCB2025	PFCB2025	PFCB2025	PFCB2025 +PFCC0023	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	2x PFCB2025 +PFCC0023	2x PFCB2025 +PFCC0023

### Examples of use

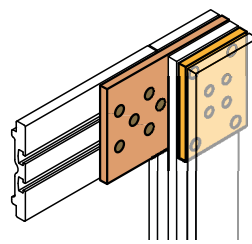
Flat busbars 2 for phase  
Shaped busbar ≤ 2000A  
PFCB4080 or PFCB1016 or  
PFCB2025



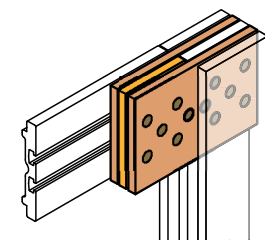
Flat busbars 2 for phase  
Shaped busbar ≥ 2000A  
2 x PFCB2025 + PFCC0023



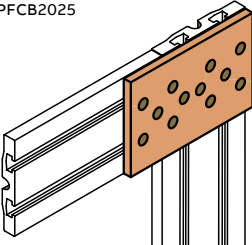
Flat busbars 3 for phase  
Shaped busbar ≤ 1600A  
PFCB4080 or PFCB1016 or  
PFCB2025 + PFCC0023



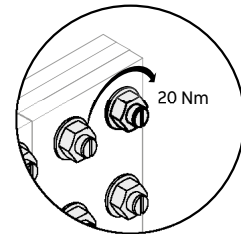
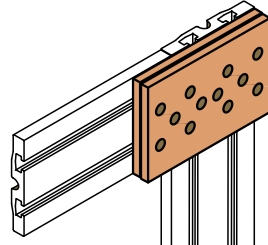
Flat busbars 3 for phase  
Shaped busbar ≥ 2000A  
2 x PFCB2025 + PFCC0023



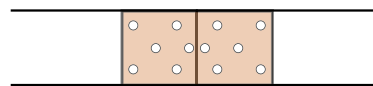
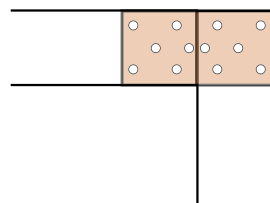
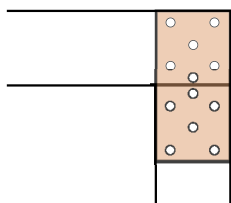
Shaped bar with  
shaped bar ≤ 1600A  
PFCB4080 or PFCB1016 or  
PFCB2025



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	Dimensions		Section dimensions (mm <sup>2</sup> )	Lenght (mm)	Weight (kg)
			LxW (mm)				
160	PBFC0160	1	15.5x3		46.5	2000	
250	BF1602	1	20x3		60	2000	1,42
400	BF2502	1	20x5		100	2000	2,15
500	BF4002	1	24x6		144	2000	3
630	BF4012	1	32x5		160	2000	3,36
1000	BF6302	1	40x8		320	2000	6,33
1250	BF8002	1	50x10		500	2000	9,68

To select the correct section of flexible busbar in relation to the correct devices see the flow rate table on page 7-41, as per certificate Cert A 20.040.

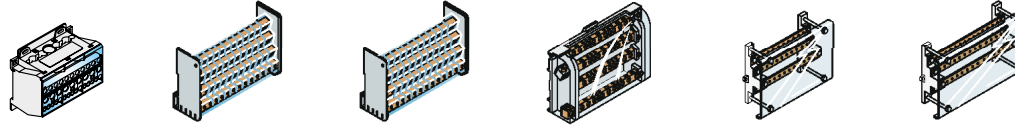
### Flat drilled and threaded busbars for earthing connection

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
	ZX52	10MA				40x40



## Modular dividers

## Three-poles



Code		AD1004	AD1028	AD1029	AD1027	AD1034	AD1053
In	(A)	125	125	125	160	250	250
I <sub>cw</sub>	(kA)	10	4.2	4.2	6.2	15	15
I <sub>pk</sub>	(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 <sup>2</sup> )	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 <sup>2</sup> )	1/6 5/pha- se					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/neu- tral						
	1.5/10 2/pha- se		7	9			
	6/neu- tral						
	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 (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	12/400
		36/800	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

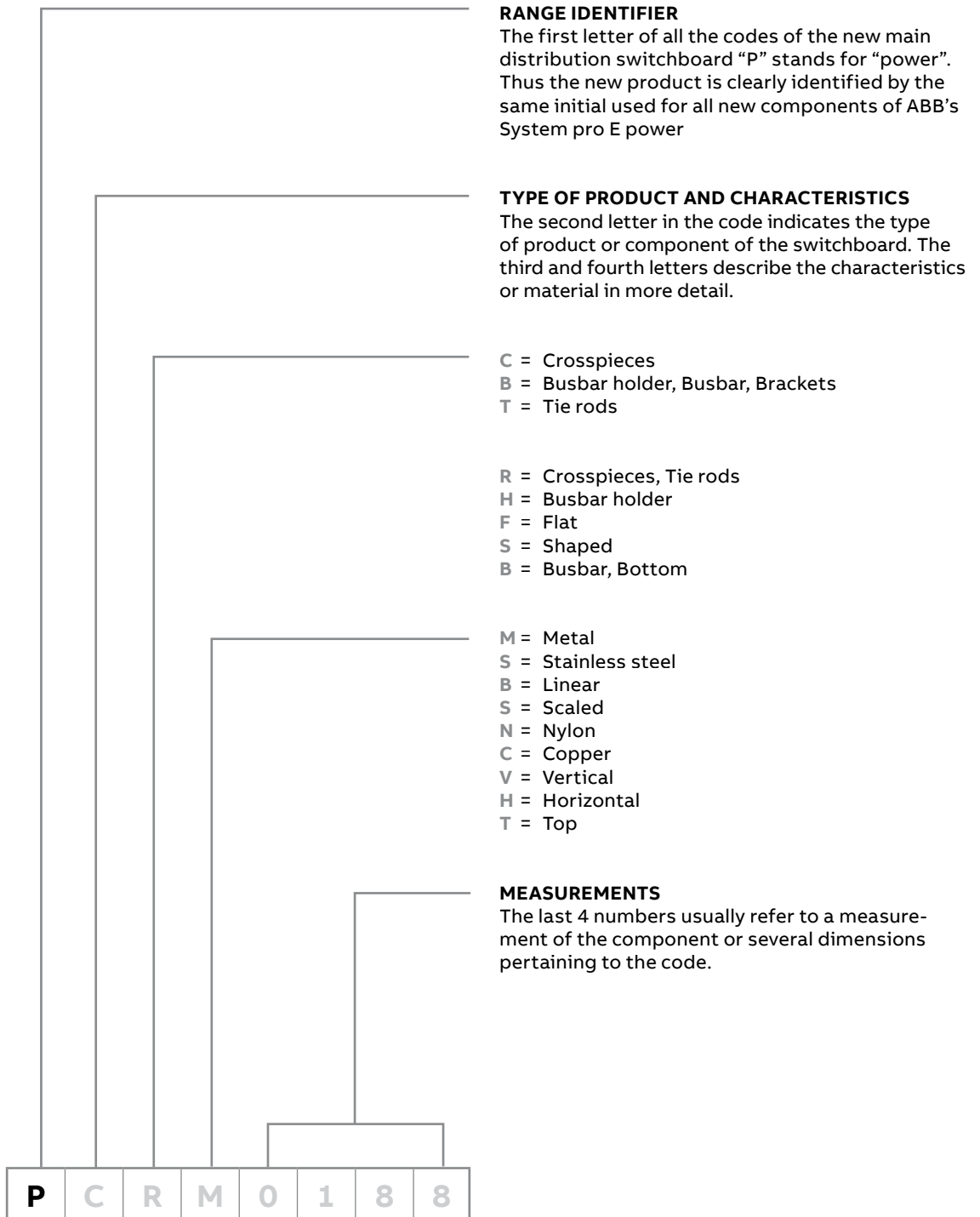
## Unifix system - Connections selection according to the breaker

Breakers serie		Unifix H	Unifix L
		(supply from above)	
SN201		ED2654 L1/N 40A	ED3272 L1/N 40A
DS901L		ED2662 L2/N 40A	ED3280 L2/N 40A
		ED2670 L3/N 40A	ED3298 L3/N 40A
		(supply from above)	
S200 - DS200		ED2531 L1 63A	ED3033 L1 100A
F200 up to 63A (Unifix L)		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)		ED2720 L1 100A	ED3132 cables supply L1/L2/L3/N - 350mm
E200 up to 100A - F200 80/100A (Unifix H)		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

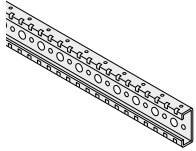
## Guide to the order codes

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



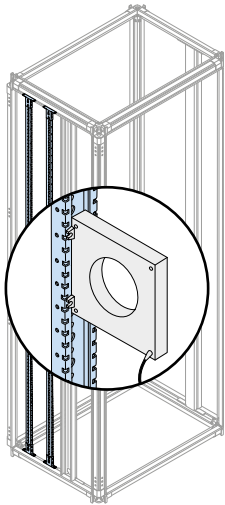
# Main distribution systems

## Order codes



### Crosspieces – Galvanized 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.

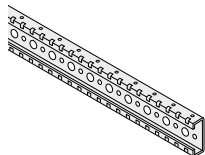


Description	Dimensions (mm)			Type	Order code	Pkg/ No. pcs
	D	W	H			
<b>Depth galvanized sheet metal crosspieces for structures without intermediate upright</b>						
No.2 crosspieces	200			PCRM0188	1STQ007375A0000	1/2
No.2 crosspieces	300			PCRM0288	1STQ007376A0000	1/2
No.2 crosspieces	500			PCRM0488	1STQ007378A0000	1/2
No.2 crosspieces	700			PCRM0688	1STQ007380A0000	1/2
No.2 crosspieces	900			PCRM0888	1STQ007382A0000	1/2
<b>Depth galvanized sheet metal crosspieces for structures with intermediate upright or PCKI.... crosspieces</b>						
No.2 crosspieces	500			PCRM0238	1STQ007384A0000	1/2
No.2 crosspieces	700			PCRM0438	1STQ007386A0000	1/2
No.2 crosspieces	900			PCRM0638	1STQ007388A0000	1/2
<b>Width galvanized sheet metal crosspieces for structures with or without intermediate upright</b>						
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
<b>Width galvanized sheet metal crosspieces for structures with rear intermediate upright</b>						
No.2 crosspieces	600			PCRM0338	1STQ007385A0000	1/2
No.2 crosspieces	800			PCRM0538	1STQ007387A0000	1/2
No.2 crosspieces	1000			PCRM0738	1STQ007389A0000	1/2
<b>Crosspieces total height</b>						
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
<b>Universal crosspieces</b>						
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

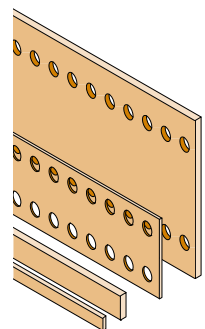
Crosspieces in 25/10 thick AISI 304 stainless steel for  $\geq$  than 4000A current values. They are fixed directly inside the cubicle using a purpose-made bracket to form busbar holders or as universal crosspieces. Equipped with 12.5mm pitch rectangular holes, they are able to house insulating supports 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)		Type	Order code	Pkg/ No. pcs
	W	H			
<b>Depth stainless steel crosspieces for structures without intermediate upright</b>					
No. 2 crosspieces	900		PCRS0888	1STQ007395A0000	1/2
<b>Depth stainless steel crosspieces for structures with intermediate upright or PCKI.... crosspieces</b>					
No. 2 crosspieces	700		PCRS0438	1STQ007398A0000	1/2
No. 2 crosspieces	900		PCRS0638	1STQ007399A0000	1/2
<b>Width stainless steel crosspieces for structures with or without intermediate upright</b>					
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
<b>Closing stainless steel crosspieces</b>					
No. 2 crosspieces			PCRS0338	1STQ007397A0000	1/2
No. 2 crosspieces			PCRS0438	1STQ007398A0000	1/2
<b>1/2 Universal crosspieces</b>					
No. 2 crosspieces L=2013mm			PCRS2013	1STQ001335B0000	1/2

#### Flat copper busbars

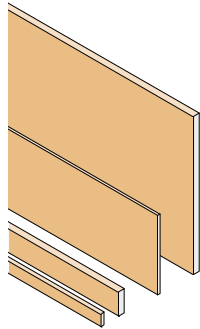
Flat busbars Lenght =1750mm.

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



## Main distribution system

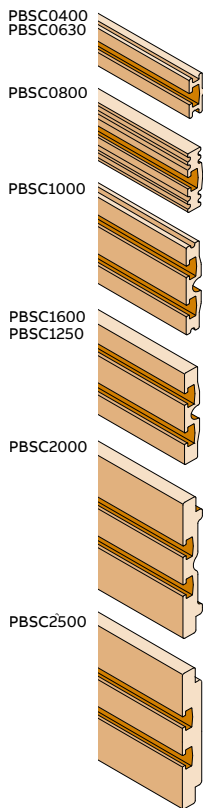
### Order codes



#### 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



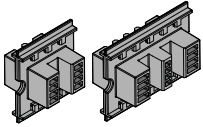
#### Shaped profile copper busbar

Shaped profile distribution busbars L=1750mm.

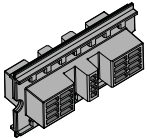
Description	LxW (mm)	mm <sup>2</sup>	Lenght (mm)	Type	Order code	Pkg/ No. pcs
Shaped copper busbar	30x10	165	1750	PBSC0400	1STQ007418A0000	1/1
Shaped copper busbar	35x10	208	1750	PBSC0630	1STQ007419A0000	1/1
Shaped copper busbar	45x10	325	1750	PBSC0800	1STQ007420A0000	1/1
Shaped copper busbar	67x10	455	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

## Main distribution system

### Order codes



PBHB1125 PBHB2145



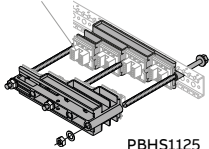
PBHB3121

#### 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

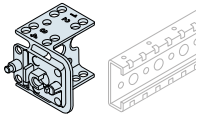
Scaled busbar holder for flat-shaped busbars complete with tie rods.

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

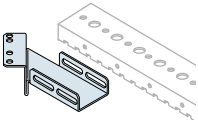
PBBU0008



#### Brackets for fixing vertical/horizontal busbars holder crosspieces

Description	Type	Order code	Pkg/ No. pcs
No. 8 brackets for crosspieces	PBBU0008	1STQ001588B0000	1/8

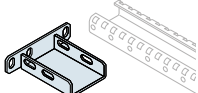
PBCB0002



#### 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

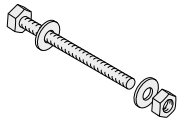
Brackets for fixing the crosspieces on PMCS .... connection module

Description	Type	Order code	Pkg/ No. pcs
No.2 fixing brackets on connection module	PBMC0002	1STQ009215A0000	1/2



# Main distribution system

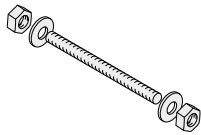
## Order codes



### Tie rods in steel

Tie rods steel (for  $I_n < 4000A$  current values).

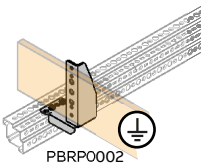
Description	Type	Order code	Pkg/ No. pcs
No.6 Tie rods in steel length = 120mm	PTRA0045	1STQ007231B0000	1/6
No.6 Tie rods in steel length = 150mm	PTRA0075	1STQ007232B0000	1/6
No.6 Tie rods in steel length = 180mm	PTRA0100	1STQ007233B0000	1/6
No.6 Tie rods in steel length = 200mm	PTRA0120	1STQ007234B0000	1/6



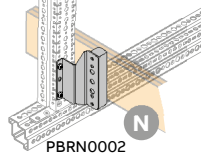
### Tie rods in AISI 304 stainless steel

Tie rods in AISI 304 stainless steel (for  $I_n \geq 4000A$  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



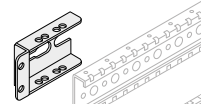
PBRP0002



PBRN0002

### 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



PBBV0008



PBBT0008

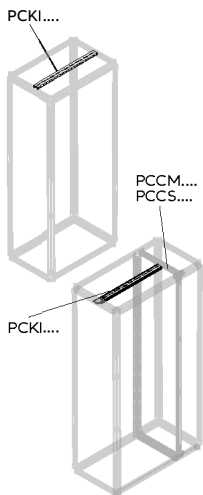
### Crosspiece fixing brackets - vertical/horizontal

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

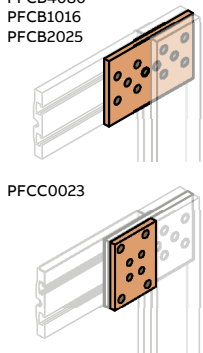


#### Crosspiece for horizontal busbar assembly under top or on bottom of structure

For assembly in  $D > 300\text{mm}$  structures with internal cable compartment, order PCCM.... cable compartment depth crosspieces as well.

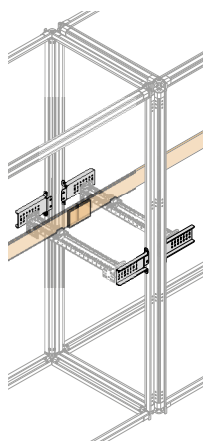
Description	Dimensions W (mm)	Type	Order code	Pkg/ No. pcs
Intermediate crosspiece for busbars under top/on bottom	300	PCKI0300	1STQ008099A0000	1/1
Intermediate crosspiece for busbars under top/on bottom	400	PCKI0400	1STQ008100A0000	1/1
Intermediate crosspiece for busbars under top/on bottom	600	PCKI0600	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



#### 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



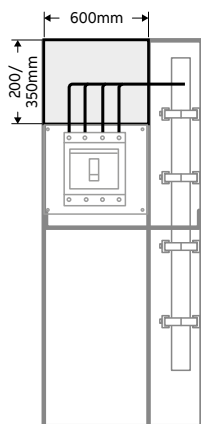
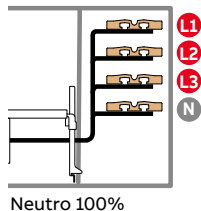
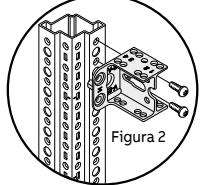
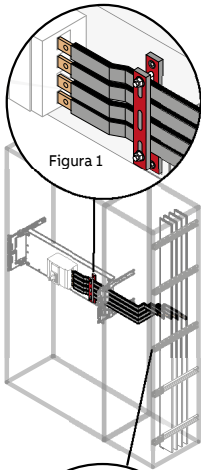
#### Plates for horizontal busbar connection

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	PBM0003	1STQ002349B0000	1/2

# Main distribution system

## Order codes



### Connections D=300mm for not accessorized fixed breakers (front terminals) LINEAR BUSBAR HOLDER, SHAPED BUSBARS 1600A IN CABLE CONTAINER

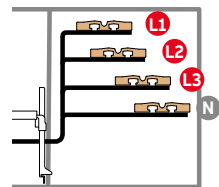
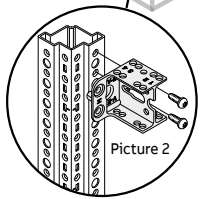
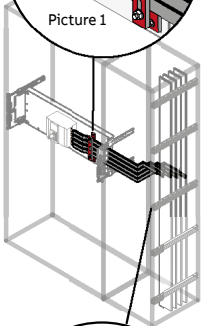
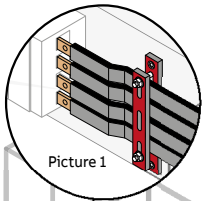
For horizontal fixed breakers 3 P is necessary to use the relating 3/4 P mounting kit in order to assemble the connections. The busbar system must be build up with insulators W=50mm (PBHB1125). The busbars must be mounted into the most rear and farther position from the circuit breaker with the neutral 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
<b>Horizontal instllation</b>							
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
<b>Vertical instllation</b>							
XT6-T6 <sup>(1)</sup>	3P	800A	600+300	600+400	PCTT6631	1STQ009259A0000	1/1
XT6-T6 <sup>(1)</sup>	4P	800A	600+300	600+400	PFTT6631	1STQ009260A0000	1/1
XT7-T7 <sup>(2)</sup>	3P	1600A	600+300	600+400	PCTT7631	1STQ009261A0000	1/1
XT7-T7 <sup>(2)</sup>	4P	1600A	600+300	600+400	PFTT7631	1STQ009262A0000	1/1
E1.2 <sup>(2)</sup>	3P	1600A	600+300	600+400	PCTT7631	1STQ009261A0000	1/1
E1.2 <sup>(2)</sup>	4P	1600A	600+300	600+400	PFTT7631	1STQ009262A0000	1/1

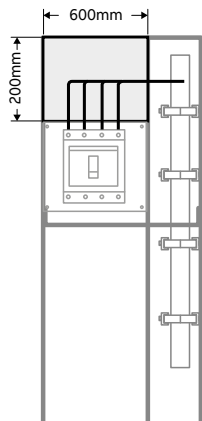
<sup>(1)</sup> For vertical T6 breakers it is necessary to leave a blind cell above H=200mm.  
<sup>(2)</sup> For vertical T7 and E1.2 it is necessary to leave a blind cell above H=350mm. The connections are designed for the high side of the circuit breakers with busbars to the right.

## 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 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)	Structure width (mm)	Type	Order code	Pkg/No. pcs
<b>Horizontal instllation - Shaped busbars 800A</b>						
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
<b>Vertical instllation - Shaped busbars 800A</b>						
T6/XT6 <sup>(1)</sup>	3P	800A	600+200	PCPT6738	1STQ009279A0000	1/1
T6/XT6 <sup>(1)</sup>	4P	800A	600+200	PFPT6738	1STQ009280A0000	1/1

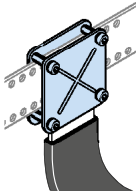
<sup>(1)</sup> For vertical XT6-T6 breakers it is necessary to leave a blind cell above H=200mm.

#### 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

# Main distribution system

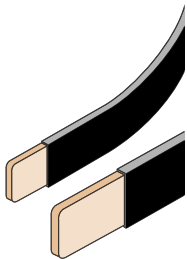
## Order codes



### 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



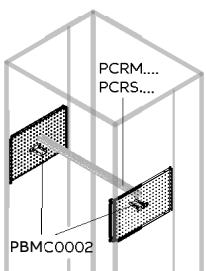
### Flexible busbars<sup>(2)</sup>

Kit for clamping flexible busbars to rigid busbars without forcing the flexible busbars.

Description	WxW (mm)	Dimensions (mm)		Type	Order code	Pkg/ No.pcs
		L				
No.2 flexible busbars	15.5x3	2000		PBFC0160	1STQ009175A0000	1/2
No.2 flexible busbars	20x3	2000		BF1602	1STQ008222A0000	1/2
No.2 flexible busbars	20x5	2000		BF2502	1STQ008223A0000	1/2
No.2 flexible busbars	24x6	2000		BF4002	1STQ008224A0000	1/2
No.2 flexible busbars	32x5	2000		BF4012 <sup>(1)</sup>	1STQ008225A0000	1/2
No.2 flexible busbars	40x8	2000		BF6302	1STQ008226A0000	1/2
No.2 flexible busbars	50x10	2000		BF8002	1STQ008227A0000	1/2

<sup>(1)</sup> Only for circuit-breakers with extended front connections or rear connections.

<sup>(2)</sup> To select the correct section of flexible busbar in relation to the correct devices see the flow rate table on page 7-41, as per certificate Cert A 20.040.



### 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.

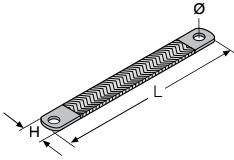
The crosspieces PCRM .... or PCRS .... is fixed using the special fixing brackets for module connection PBMCO002. The crosspiece is to be chosen and ordered separately according to the width of the structure.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	D			
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			PBMCO002	1STQ009215A0000	1/1

PMCS... not compatible with busbar connection bracket PBMCO003 or with the plate for busbar systems PBBU0008. For details consult [Chapter 7 - Examples of connections from circuit-breaker towards omnibus busbars](#).

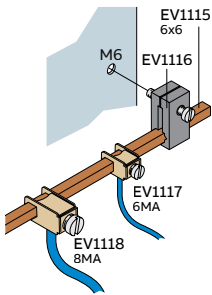
# Main distribution system

## Order codes



### Cables for earthing

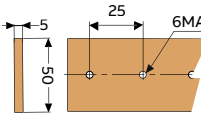
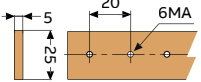
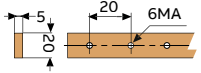
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	L			
No.5 earthing cables sect. 16mm	17	200	AA6840		1/5
No.5 earthing cables sect. 16mm	17	300	AA6850		1/5
No.5 earthing cables sect. 25mm	22	200	AA6880		1/5
No.5 earthing cables sect. 25mm	22	300	AA6890		1/5



### 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 ø0.5-16mm <sup>2</sup> for EV1115	EV1117		1/100
No. 100 terminals for cable ø4-35mm <sup>2</sup> for EV1115	EV1118		1/100



### Earthing copper busbars

Flat busbar, drilled and threaded for earthing.

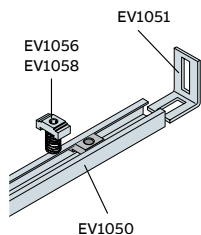
Description	Type	Order code	Pkg/ No. pcs
No. 2 drilled and threaded busbars 20x5mm L=2000mm	EV1119	1STQ001014A0000	1/2
No. 2 drilled and threaded busbars 25x5mm L=2000mm	EV1120	1STQ001015A0000	1/2
No. 2 drilled and threaded busbars 50x5mm L=2000mm	EV1121	1STQ001016A0000	1/2



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
No.1 40 x 40 mm, threads on both sides: M10	ZX52	2CPX039052R9999	1/1

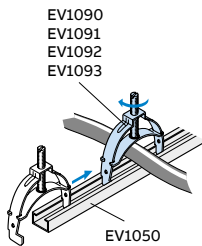


### Sliding aluminium rails for general purposes

Description	Type	Order code	Pkg/ No. pcs
No. 10 aluminium sections 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

# Main distribution system

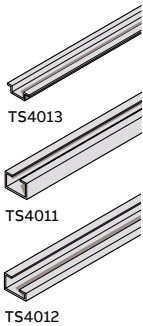
## Order codes



### Brackets for anchoring cables

Adjustable cable clamping bracket. Can be mounted on sections with 10mm slot EV1050.

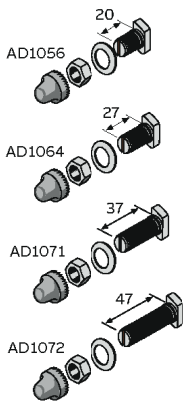
Description	Type	Order code	Pkg/ No.pcs
No.10 cable clamping brackets Ø9÷16mm min÷max	EV1090	1STQ000999A0000	1/10
No.10 cable clamping brackets Ø16÷30mm min÷max	EV1091	1STQ001000A0000	1/10
No.5 cable clamping brackets Ø30÷48mm min÷max	EV1092	1STQ001001A0000	1/5
No.5 cable clamping brackets Ø48÷72mm min÷max	EV1093	1STQ001002A0000	1/5



### Profiles for accessories

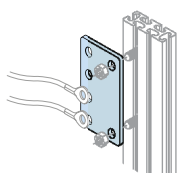
Universal profiles of different types for mounting any component or for cable locking.

Description	Dimensions (mm)		Order code	Pkg/ No.pcs
	L	Type		
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.12 screws 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

# Main distribution system

## Order codes

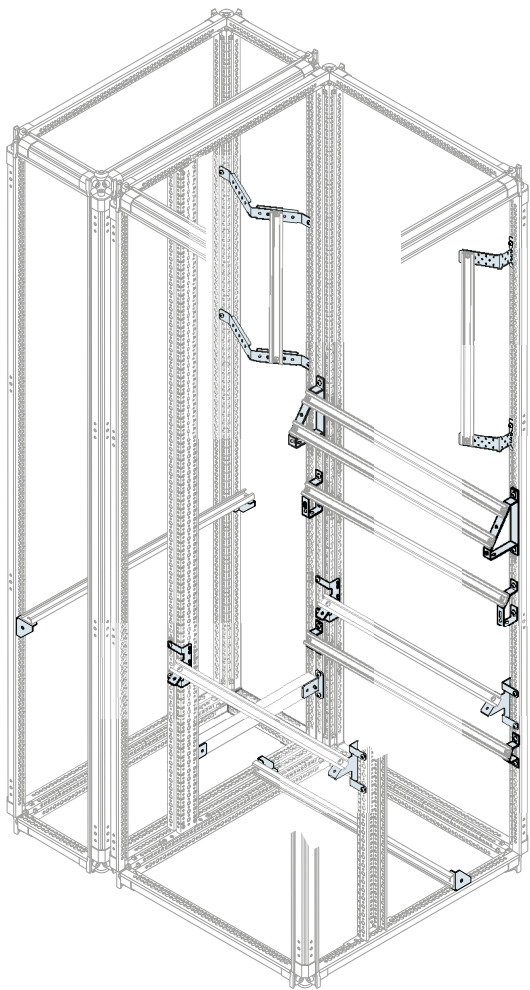
### Plates for terminal boxes, earthing busbars and universal plates

Description	Type	Order code	Pkg/ No.pcs
No.10 angled supports 1 row of terminals	EV2110 <sup>(1)</sup>	1STQ003202A0000	1/10
No.50 angled supports 1 row of terminals	EV1110 <sup>(1)</sup>	1STQ001007A0000	1/50
No.2 angled supports 1 row of terminals + earth	EV1113 <sup>(1)</sup>	1STQ003737A0000	1/2
No.10 angled supports 1 row of terminals + earth	EV2112 <sup>(1)</sup>	1STQ003203A0000	1/10
No.50 angled supports 1 row of terminals + earth	EV1112 <sup>(1)</sup>	1STQ001009A0000	1/50
No.10 angled supports double row of terminals	EV1111 <sup>(1)</sup>	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 <sup>(2)</sup>		1/2
2 (two) supports for vertical terminal box in internal cable compartment L=200mm	AD1005 <sup>(3)</sup>		1/2
2 (two) universal "T" plates	PBBS0001	1STQ002146B0000	1/2
2 (two) universal "L" plates	PBBS0020	1STQ002333B0000	1/2

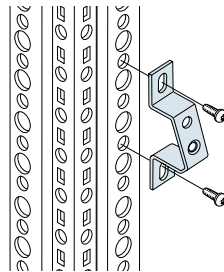
<sup>(1)</sup> Assembly on structure uprights and intermediate upright using external holes

<sup>(2)</sup> Assembly on structure upright using internal holes.

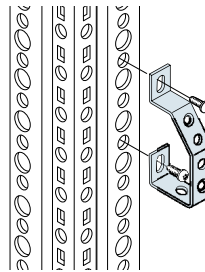
<sup>(3)</sup> Assembly on structure upright/internal cable compartment using external holes.



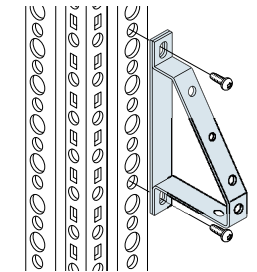
EV2110 - EV1110



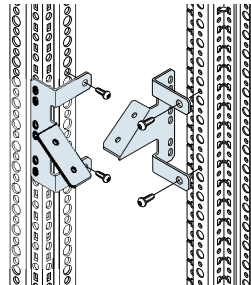
EV1113 - EV2112



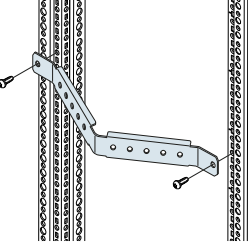
EV1111



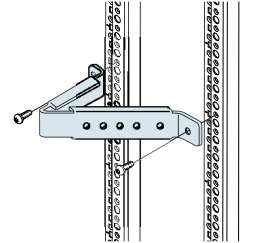
AD1041



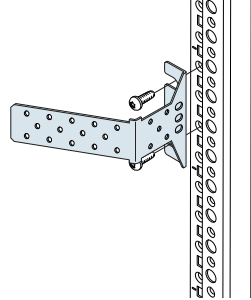
AD1099  
Structure D=300mm or external  
cable container W=300mm



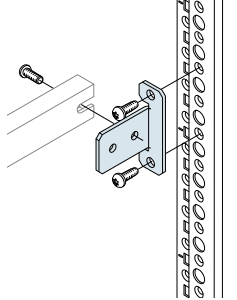
AD1005  
internal cable container  
W=200mm



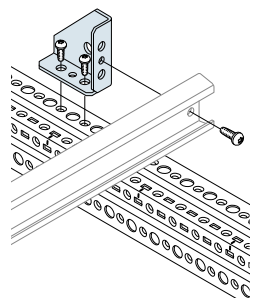
AD1055



PBBS0001



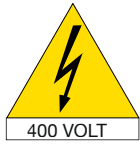
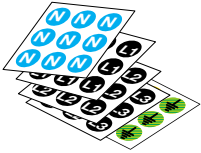
PBBS0020





## Main distribution system

### Order codes

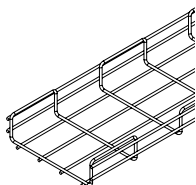


#### Labels

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

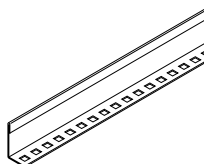
## Main distribution system

### Metal wiring ducts - Order codes



#### Steel wire sendzimir painted trays W=3000mm

Description	Type	Order code	Pkg/ No.pcs
<b>H=35mm</b>			
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
<b>H=50mm</b>			
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
<b>H=75mm</b>			
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

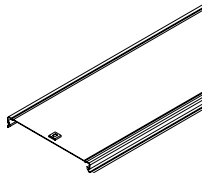


#### Straight sendzimir separator sections

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

## Main distribution system

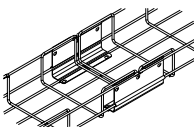
### Metal wiring ducts - Order codes



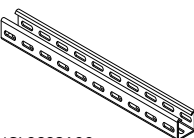
#### Sendzimir covers W=3000mm

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



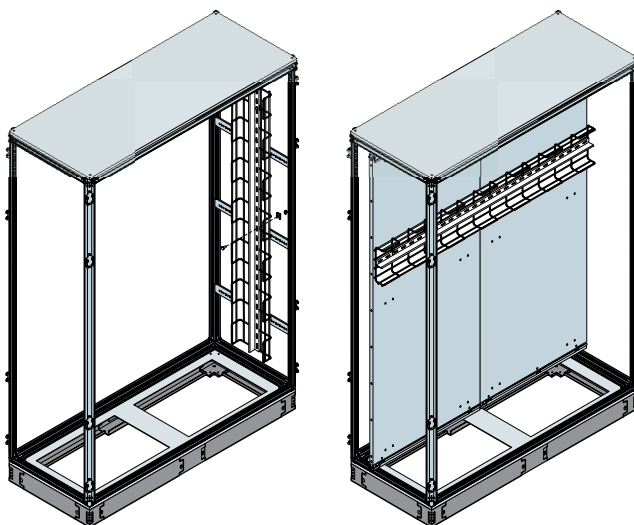
1SL9893A00



#### Accessori in Sendzimir

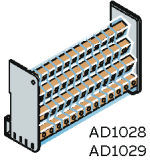
Description	Type	Order code	Pkg/ No.pcs
Linear joint	1SL9880A00	1SL9880A00	1/2
Snap-on linear joint for trays H 35mm	1SL9907A00	1SL9907A00	1/2
Snap-on linear joint for trays H 50mm	1SL9886A00	1SL9886A00	1/2
Snap-on linear joint for trays H 75mm	1SL9887A00	1SL9887A00	1/2
Fixing element for shelf complete 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.

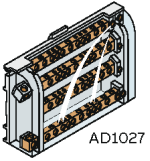


# Main distribution system

## Mounting accessories - Order codes



AD1028  
AD1029

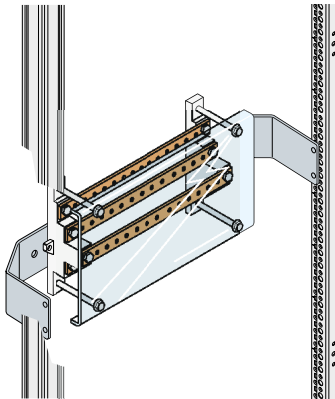


AD1027

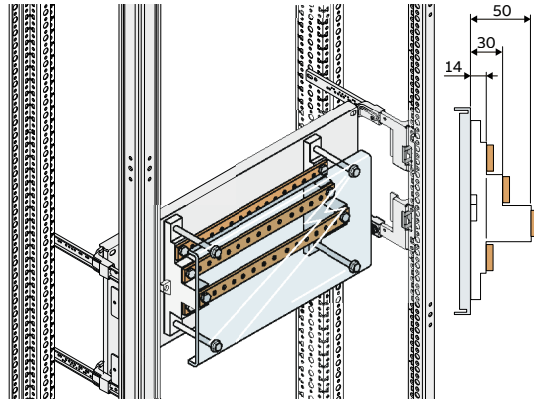
### Modular dividers

Description	Type	Order code	Pkg/ No.pcs
<b>Four-pole</b>			
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
<b>Fixing brackets</b>			
No.2 Fixing brackets for AD1034-AD1053	PBRF3453	1STQ0091840000	1/2

AD1034 - AD1053  
Assembly with fastening brackets PBRF3453

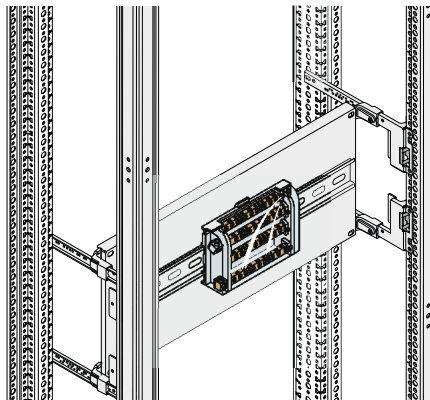


AD1034 - AD1053  
Assembly on plate H=200/250/300mm



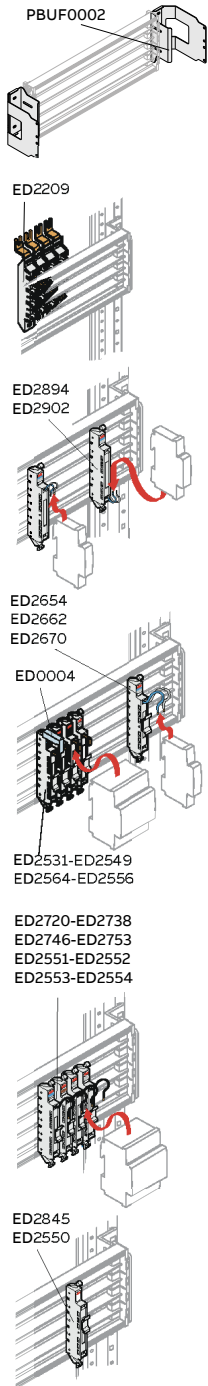
Maximum fixing position of hole plate n° 11 of the bracket.

AD1027  
Assembly on plate with DIN 35 rail



# Main distribution system

## Unifix - Order codes

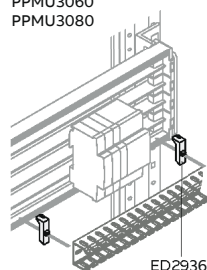
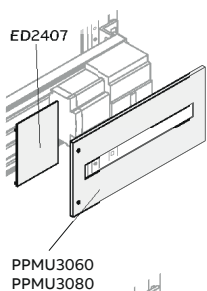
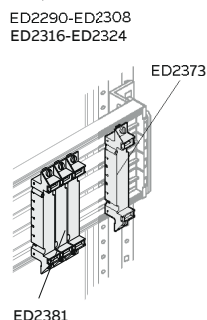
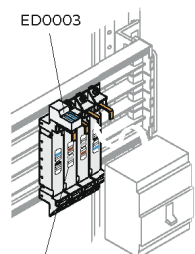
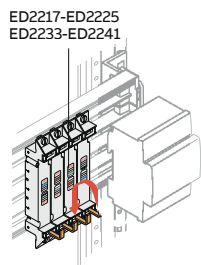


### Unifix H

Description	Dimensions W (mm)	Type	Order code	Pkg/ No. pcs
No.2 brackets for fixing Unifix to structure		PBUF0002	1STQ008117A0000	1/2
<b>Frames for Tmax and modular circuit-breakers - System pro M</b>				
Frames with 24 busbars DIN modules	600	ED2183	1STQ008228A0000	1/1
Frames with 36 busbars DIN modules	800	ED2191	1STQ008229A0000	1/1
<b>Feeder modules</b>				
4P 400A feeder module (for ED2183-ED2191)		ED2209	1STQ008230A0000	1/1
<b>MDRC-Various equipment- Basic module In 16A</b>				
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
<b>SN201 - DS901L - Basic module In 40A</b>				
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
<b>S200 - DS200 - Basic module In 63A</b>				
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
<b>S200 (80-100A) - E200 up to 100A - F200 80/100A (Unifix H) - Basic module In 100A</b>				
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
<b>S800 - Basic modules ≤ In 40A</b>				
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
<b>S800 - Basic modules ≤ In 125A</b>				
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

# Main distribution system

## Unifix - Order codes



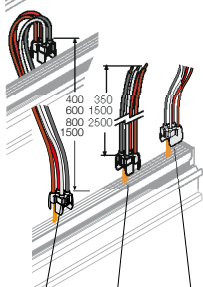
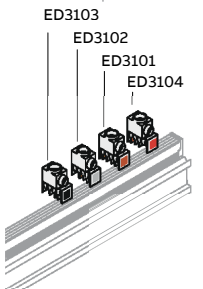
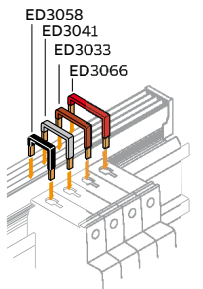
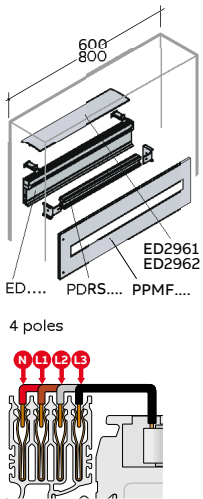
### Unifix H

Description	Type	Order code	Pkg/ No. pcs
<b>Basic modules ≤ I<sub>n</sub> 160A Tmax XT1 (front terminals FCCuAl)</b>			
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
<b>Basic modules ≤ I<sub>n</sub> 250A Tmax XT3</b>			
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
<b>Accessories</b>			
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
<b>Spare parts</b>			
No.10 terminal covers for XT3-T3	ED0003	1STQ008261A0000	1/10
No.10 terminal covers for S200/F200	ED0004	1STQ008262A0000	1/10

\*Not compatible in presence of residual current device.

# Main distribution system

## Unifix - Order codes

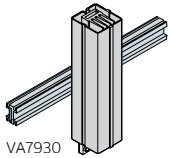


### Unifix L

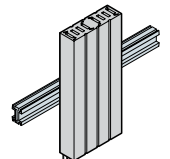
Description	Dimensions W (mm)	Type	Order code	Pkg/ No. pcs
<b>4-pole busbars</b>				
100A 4P busbar 12 modules	400	ED2944	1STQ008307A0000	1/1
100A 4P busbar 18 modules	450	ED2951	1STQ008308A0000	1/1
100A 4P busbar 24 modules	600	ED2969	1STQ008311A0000	1/1
100A 4P busbar 36 modules	800	ED2977	1STQ008312A0000	1/1
<b>MDRC - Connections for various equipment</b>				
CConnection with 2 conductors L1/N 40A		ED3355	1STQ008339A0000	1/1
Connection with 3 conductors L1/L2/L3 40A		ED3363	1STQ008340A0000	1/1
Connection with 4 conductors L1/L2/L3/N 40A		ED3371	1STQ008341A0000	1/1
<b>SN201 - DS901L - Basic modules In 40A</b>				
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
<b>S200 - DS200 - Basic modules In100A</b>				
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
<b>S200 (80-100A) - E200 up to 100A -Basic modules In 100A</b>				
Feeder with cable 4P 100A (L=350mm)		ED3132	1STQ008335A0000	1/1
Feeder with cable 4P 100A (L=1500mm)		ED0026	1STQ008306A0000	1/1
Feeder with cable 4P 100A (L=2500mm)		ED0025	1STQ008305A0000	1/1
<b>Feeder module with cable 16mm<sup>2</sup></b>				
4P 100A parallel module with cable (L=600mm)		ED3090	1STQ008323A0000	1/1
4P 100A parallel module with cable (L=800mm)		ED3413	1STQ008343A0000	1/1
4P 100A parallel module with cable (L=1500mm)		ED3439	1STQ008344A0000	1/1
<b>Feeder module without cable In 100A</b>				
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
<b>Accessories</b>				
No.10 busbar covers (L=600mm)		ED2961	1STQ008309A0000	1/10
No.2 busbar covers (L=800mm)		ED2962	1STQ008310A0000	1/2

## Main distribution system

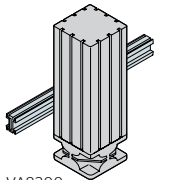
### Temperature management - Order codes



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.

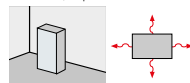
The main qualities of the heaters using PTC are:

- 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 thermostat integrated in the heater (versions with forced ventilation).

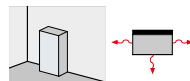
Snap-on assembly on 35 mm DIN rail. Requires a thermostat.

Description	Dimensions (mm)			Type	Order code	Pkg/ No. pcs
	H	W	D			
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

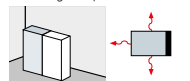
Detached, exposed on all sides



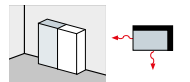
For closed to a wall structures



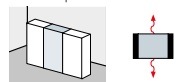
Left or right exposed structure



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



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:

$$P = k * \Delta T * S$$

$$k = 5,5 \text{ for painted steel}$$

$$\Delta T = T1 - T2;$$

T1 = dew point temperature (on average 25°C)

T2 = minimum ambient temperature.

The exchange surface S can be calculated using the following table taken from the CEI 17-43.

Disposition of the cabinet	Calculating the enclosure surface S (mm²)	Dimensions (m)
Detached, exposed on all sides	$S = 1,8 \times H \times (L+P) + 1,4 \times L \times P$	L = width H = height P = depth
For closed to a wall structures	$S = 1,4 \times L \times (H+P) + 1,8 \times P \times H$	
Left or right exposed structure	$S = 1,4 \times P \times (H+L) + 1,8 \times L \times H$	
Left or right closed to a wall structure	$S = 1,4 \times H \times (P+L) + 1,4 \times L \times P$	
Central exposed structure	$S = 1,8 \times L \times H + 1,4 \times L \times P + P \times H$	
Central closed to a wall structure	$S = 1,4 \times L \times (H+P) + P \times H$	
Central closed to a wall structure, with covered roof	$S = 1,4 \times L \times H + 0,7 \times L \times P + P \times H$	

Using a ES1804K enclosure, in "for closed to a wall structures" case we will obtain:

$$T1 = 25 \text{ °C}, T2 = 20 \text{ °C}, K = 5,5, \Delta T = (25-20) = 5 \text{ °C}, S = 4,4\text{m}^2$$

The total power dissipation P obtained will be:

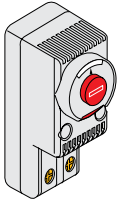
$$P = k * \Delta T * S = 121\text{W}$$

The recommended heater is VA7915 (150W).





## 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.

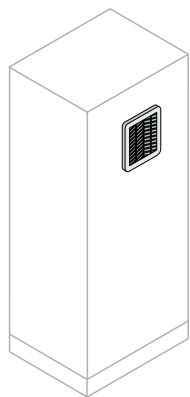
Description	Standard power supply V~/50-60Hz	Type	Order code	Pkg/ No. pcs
NO ventilation thermostat	12-60 V d.c.; 110-250V a.c.		EN0101K	1/1
NC heating thermostat	12-60 V d.c.; 110-250V a.c.		EN0102K	1/1

#### Technical information

Type	Standard power supply ~ 50-60 Hz	Contact capacity		Temperature scale	Type of contact	Weight
		Carico $\Omega$	Carico L			
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

## Main distribution system

### Temperature management - Order codes

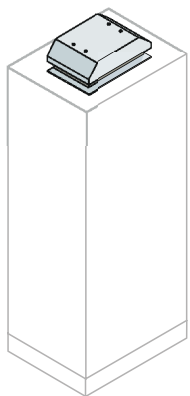


#### Natural ventilation kit IP21 / 54 IP21/54

Grilles made of insulating material (ABS self-extinguishing UL94V-0) RAL7035 colour, complete with filter cloth with high dust accumulation capacity (600g/m<sup>2</sup>), 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)		Type	Order code	Pkg/No. pcs
Without filter cm <sup>2</sup>	With filter cm <sup>2</sup>	W	W			
<b>Grille+air passage filter kit</b>						
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

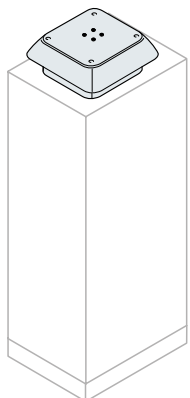
\* For structures W≥400mm / D≥500mm.



#### IP23 aeration hood

Structure made of steel painted RAL7035 colour, complete with selfadhesive gasket seal. Useful aeration section 128 cm<sup>2</sup>.

Description	Dimensions (mm)			Type	Order code	Pkg/No. pcs
	W	W	D			
Roof aeration kit	375	295	119		EN0481K	1/2



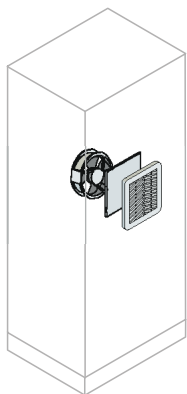
#### IP54 ventilation hood

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)			Type	Order code	Pkg/No. pcs
	W	W	D			
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/m<sup>2</sup>), 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 <sup>3</sup> /h)	Dimensions (mm)		Type	Order code	Pkg/No. pcs
		L	H			
<b>Con ventilatore a 230V~</b>						
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
<b>Con ventilatore a 115V~</b>						
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

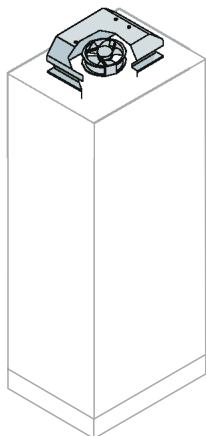
\* For structures W≥400mm / D≥500mm.

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.

## Main distribution system

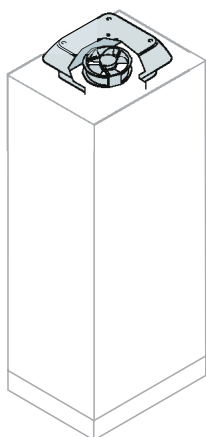
### Temperature management - Order codes



#### IP23 forced ventilation hood

Allows suction from the roof of the cabinet. RAL 7035 colour, complete with self-adhesive gasket; consumption 58/78W, capacity 550/590m<sup>3</sup>/h. Operating temperature from -20 °C to + 60 °C, noise 68/71dB(A).

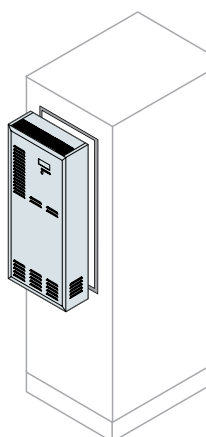
Description	Dimensions (mm)			Type	Order code	Pkg/ No. pcs
	L	P	H			
Ventilation hoods 230V - 50/60Hz	375	295	119	EN0480K		1/1
Ventilation hoods 115V - 50/60Hz	375	295	119	EN0482K		1/1



#### 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)			Type	Order code	Pkg/ No. pcs
	L	P	H			
Ventilation hoods 115V - 50/60Hz	324	324	94	EN0484K		1/1
Ventilation hoods 230V - 50/60Hz	324	324	94	EN0485K		1/1



#### IP54 air conditioners for wall mounting

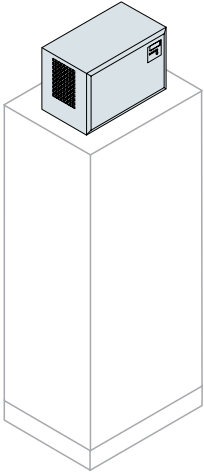
Conditioners for structures  $W \geq 600$ mm.

Dimensions (mm)			Capacity (m <sup>3</sup> /h)				Type	Order code	Pkg/ No. pcs
H	W	D	Refrigerating yield (W)	Evaporat.	Condens.	Absorbed power (W)			
<b>Wall mounting - Power supply 230V AC</b>									
1025	380	198	605	380	400	330	VZ1550K		1/1
1025	380	198	810	350	400	400	VZ1850K		1/1
<b>Wall mounting+switchboard - Power supply 230V AC</b>									
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.

## Main distribution system

Temperature management - Order codes

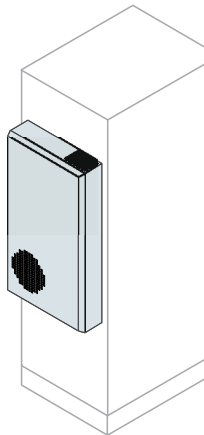


### IP54 air conditioners for roof mounting

Conditioners for structures L≥800mm and P≥500mm.

Dimensions (mm)			Capacity (m <sup>3</sup> /h)			Type	Order code	Pkg/ No. pcs
H	W	D	Refrigerating yield (W)	Evaporat.	Condens.			
<b>Roof mounting- Power supply 230V AC</b>								
350	600	400	810	350	400	VZ8501K		1/1
<b>Roof mounting+switchboard- Power supply 230V AC</b>								
350	600	400	1300	350	600	VZ1401K		1/1

The filters are not included.



### IP54 heat exchangers (air-air) for wall mounting

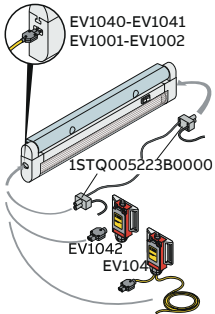
Dimensions (mm)			Refrigerating yield (W) internal	Flow rate (m <sup>3</sup> /h) external	Type	Order code	Pkg/ No. pcs
H	W	D					
<b>Wall mounting- Power supply 230V AC</b>							
710	370	130	35	200	VS4235K <sup>(1)</sup>		1/1
900	435	175	85	300	VS6285K <sup>(2)</sup>		1/1

<sup>(1)</sup> For structures W≥600mm

<sup>(2)</sup> For structures W≥600mm

# Main distribution system

## Lighting - Order codes



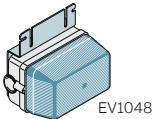
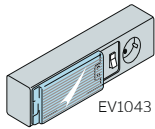
### Led electronic lamp/fluorescent lamps

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
<b>Led electronic lamp</b>			
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
<b>Fluorescent lamps</b>			
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
<b>Lamp holder</b>			
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.

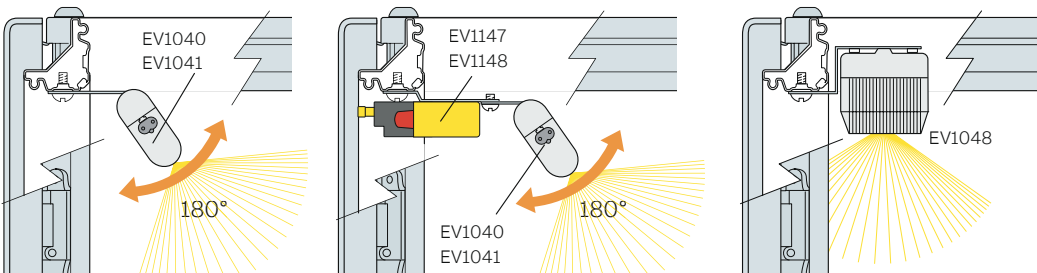
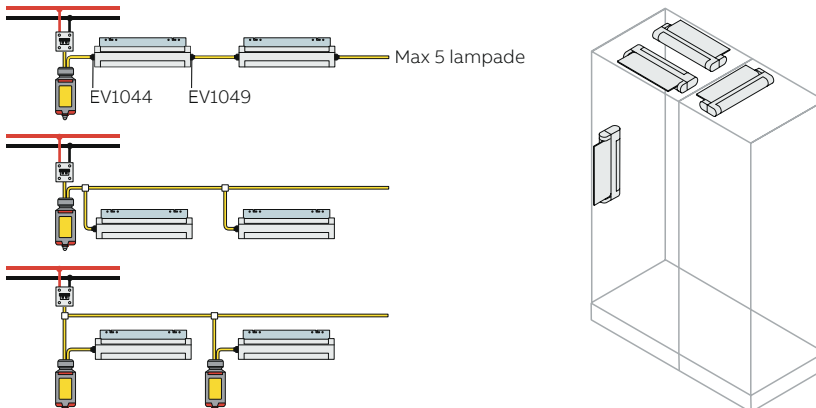


Fig. 1



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## **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 codes**

**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. <ul style="list-style-type: none"> <li>• Segregation of all functional units from each other</li> <li>• Segregation of the terminals for external conductors and the external conductors from the functional units, but not from the terminals of other functional units</li> </ul>	Segregation of busbars from all functional units. <ul style="list-style-type: none"> <li>• Segregation of all functional units from each other</li> <li>• Segregation of the terminals for external conductors associated with a functional unit from the terminals of any other functional unit and from the busbars</li> <li>• Segregation of the external conductors from the busbars</li> <li>• Segregation of the external conductors associated with a functional unit from other functional units and their terminals</li> <li>• The external conductors do not need to be separated from each other</li> </ul>
		<b>Form 2a</b> The terminals for external conductors are not separated from the busbars	<b>Form 3a</b> The terminals for external conductors are not separated from the busbars	<b>Form 4a</b> The terminals for external conductors are in the same compartment as associated functional unit
	<b>Form 2b</b> The terminals for external conductors are separated from the busbars	<b>Form 3b</b> The terminals for external conductors and the external conductors are separated from the busbars	<b>Form 4b</b> 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	
<b>Key</b> 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 breakers 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  $D \geq 500\text{mm}$ , is created with side closing elements for the compartment and universal horizontal shelves to install between kits with different depths ( $D \geq 38\text{mm}$ ), 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  $H=800/1000\text{mm}$  side walls that cover the structure at the side along its entire height and with horizontal and vertical shel-

ves 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).

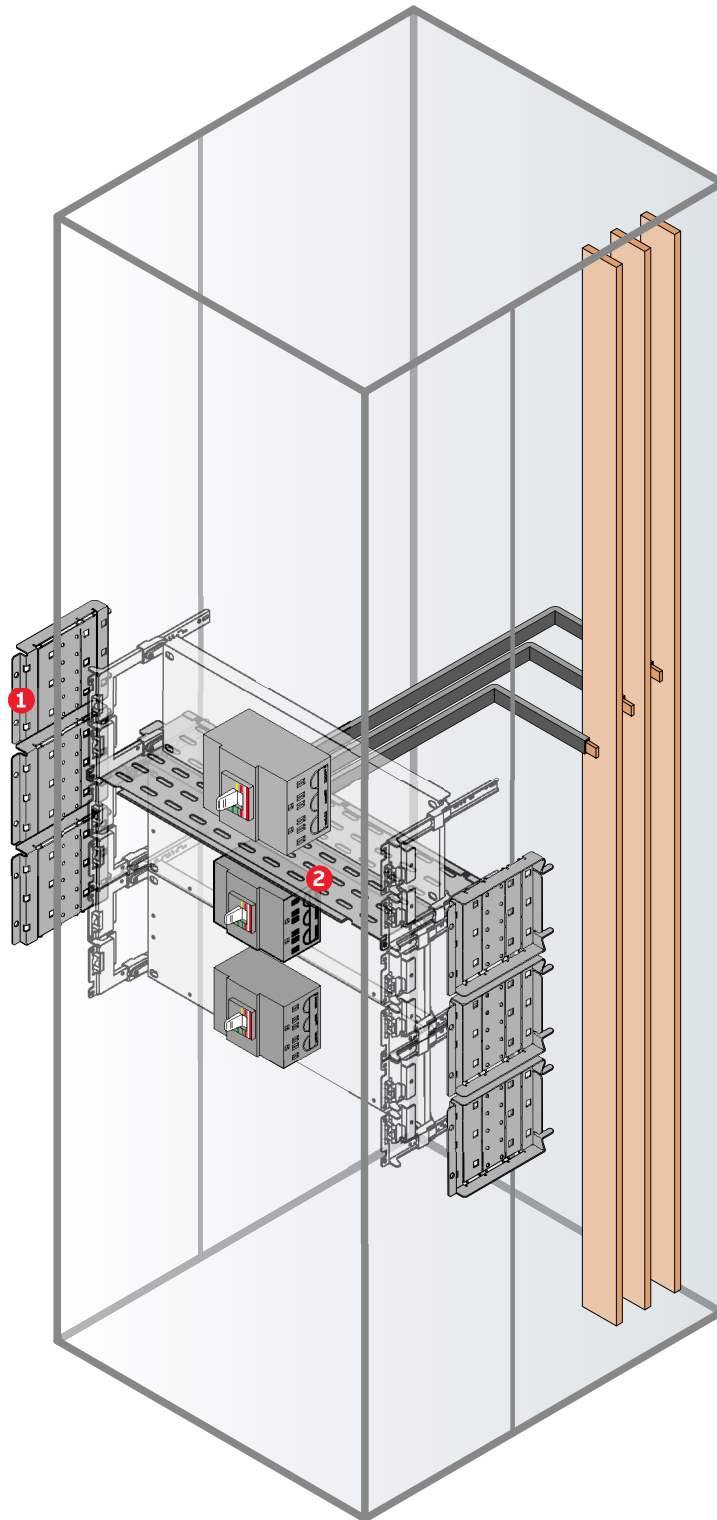
\* High terminal covers are available for all Tmax T/XT fixed and Emax E1.2 fixed, except for XT1, XT3 F-RC and kit PHBX3301, PHBX3401, PHBX4301, PHBX4401, PHBT4301, PHBT4406, PHBT5306, PHBT5406 and Tmax T6/T7 withdrawable and plug-in versions. For Tmax XT1/XT2/XT3/XT4 withdrawable and plug-in versions 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.



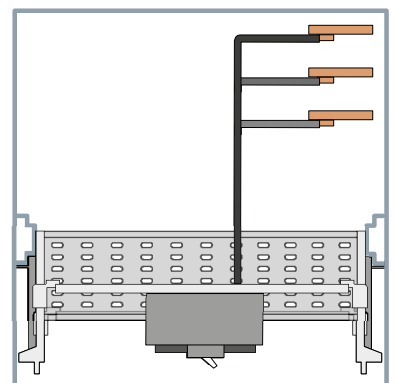
## Structure

### General information

#### Segregation Form 2a - 3a



- 1 Universal compartment side closing element PPVS....
- 2 Universal horizontal shelf PSHS.....

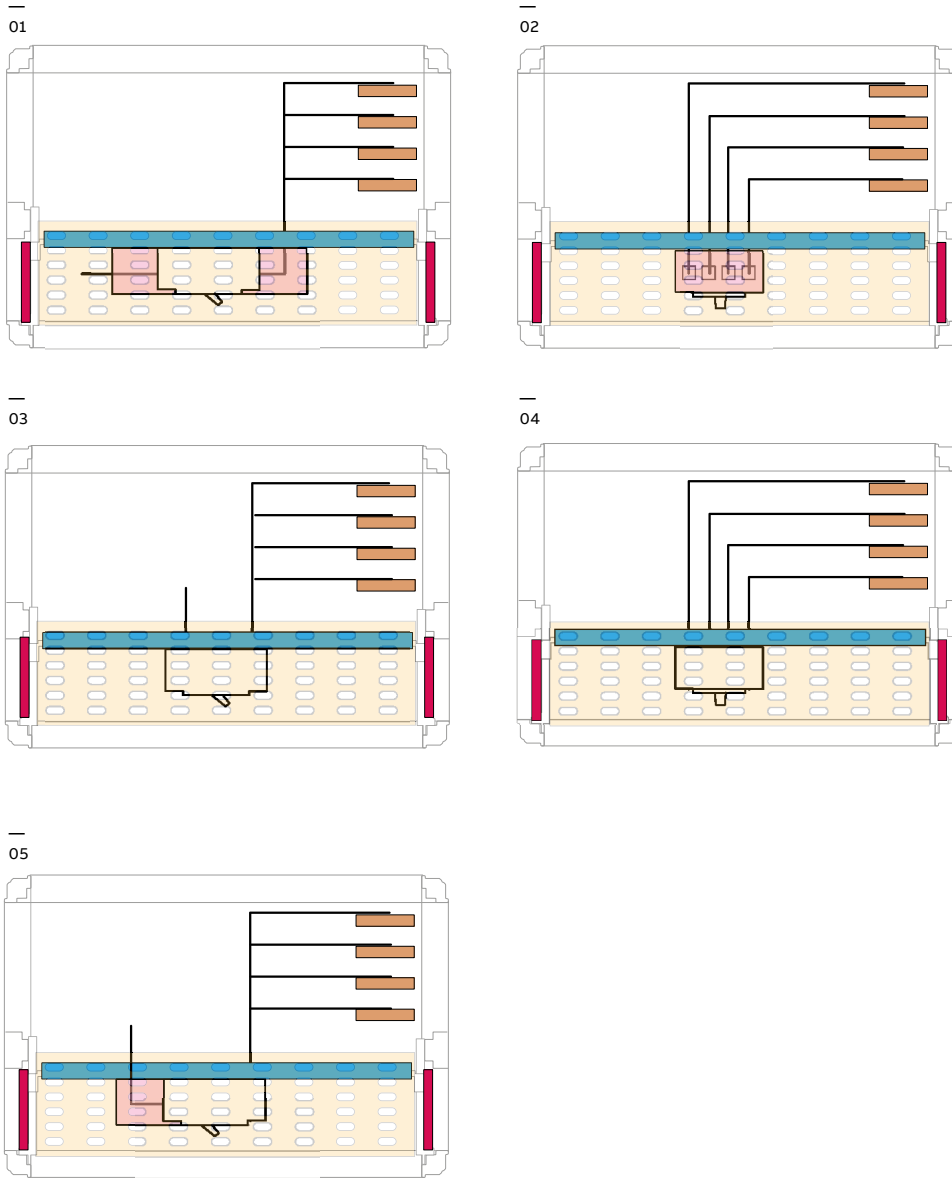


## Examples of busbar use in the structure

- 01 Horizontal circuit-breaker with front terminals
- 02 Vertical circuit-breaker with front terminals
- 03 Horizontal circuit-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

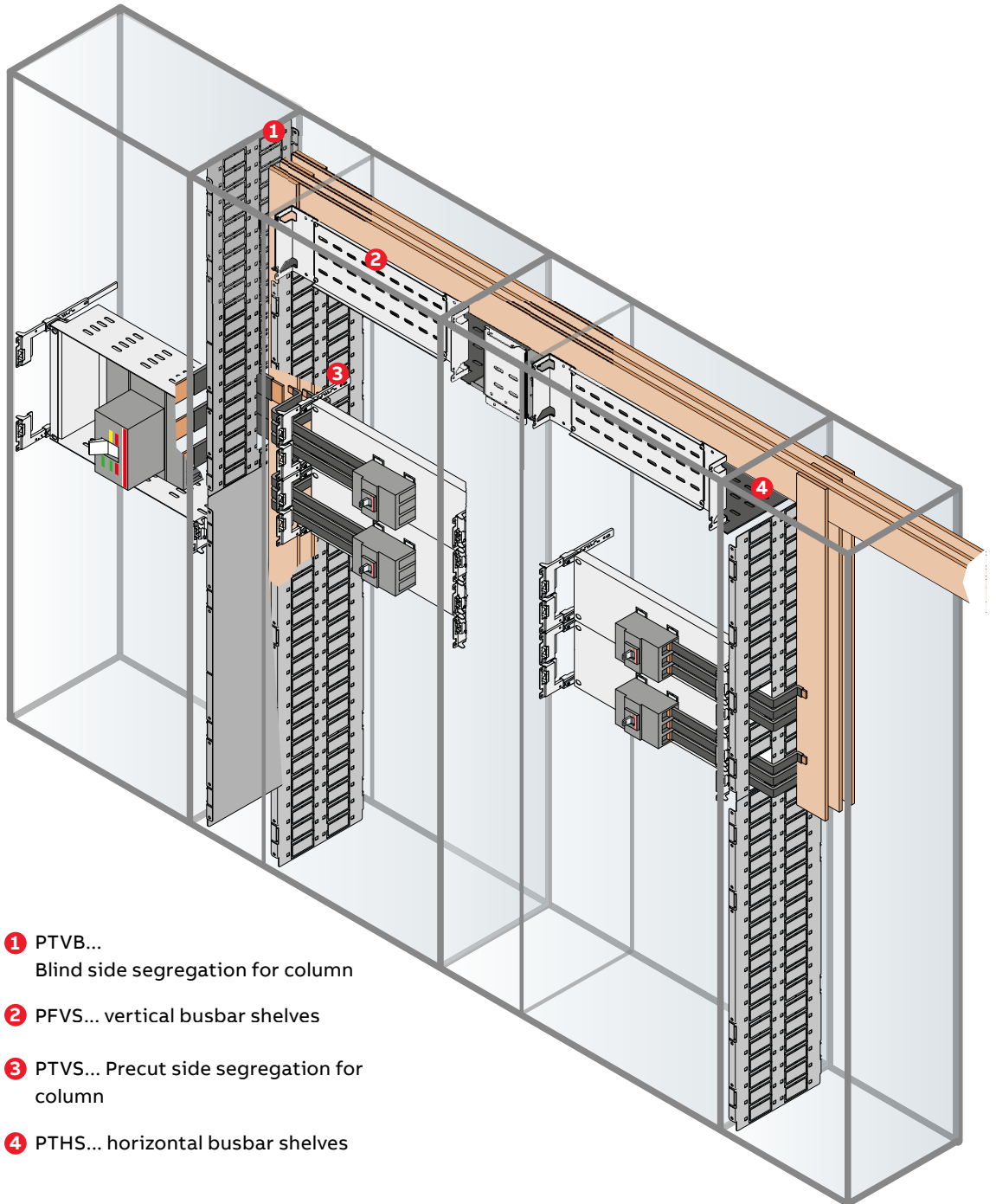


High terminal covers are available for all Tmax T/XT fixed and Emax E1.2 fixed, except for XT1, XT3 F-RC and kit PHBX3301, PHBX3401, PHBX4301, PHBX4401, PHBT4301, PHBT4406, PHBT5306, PHBT5406 and Tmax T6/T7 withdrawable and plug-in versions. For Tmax XT1/XT2/XT3/XT4 withdrawable and plug-in versions 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.

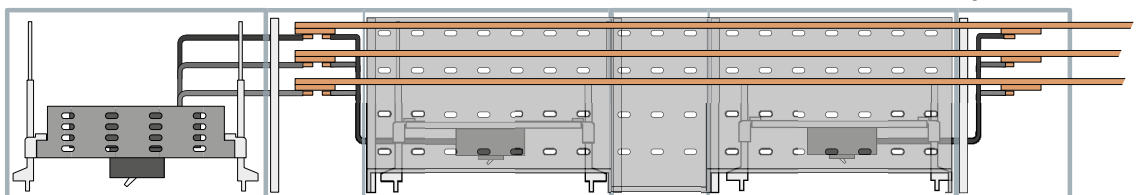
## Structure

### 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



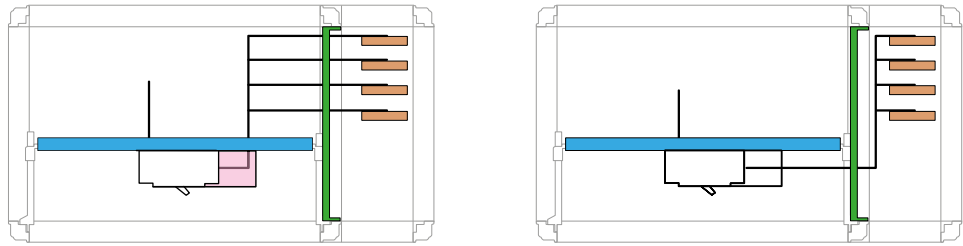
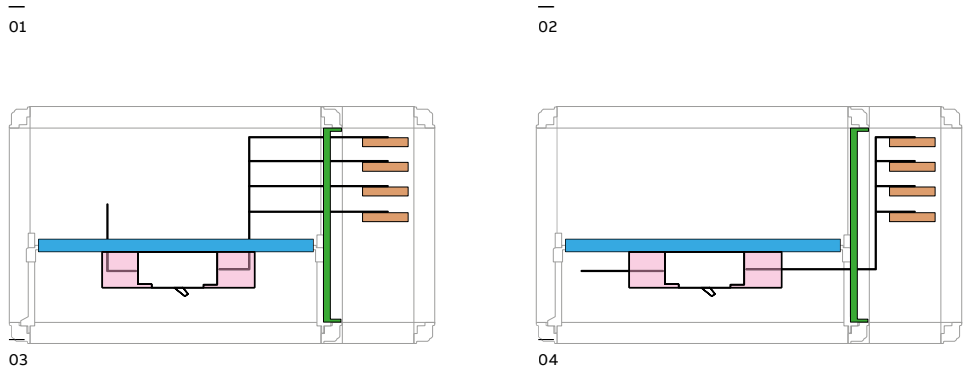
## Examples of busbar use in the cable compartment

- 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

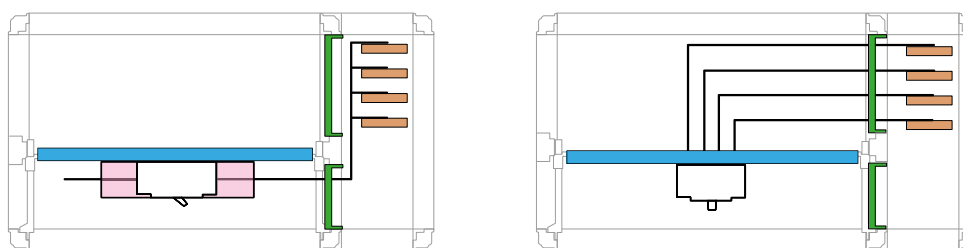
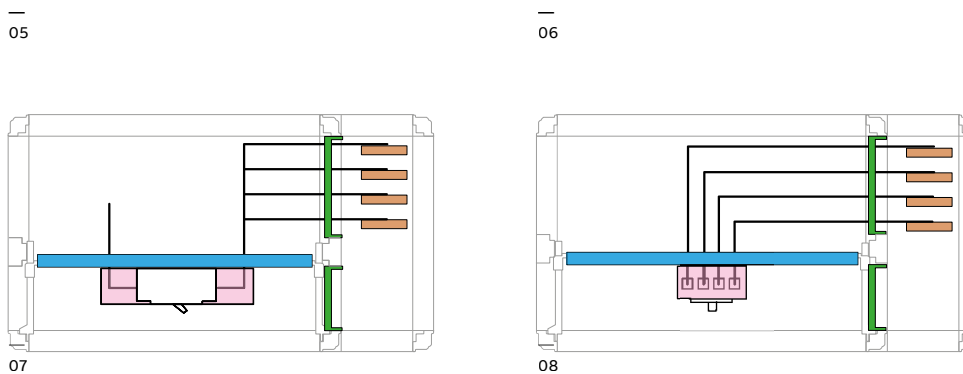
To obtain segregation Form 2b, use dedicated horizontal shelves PTHS.... and front segregations PFVS.... for the structure, internal cable compartment and external cable compartment. The busbars are segregated with precut PTVS... or blind PTVB... side segregations for columns,

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



### Structures with intermediate upright

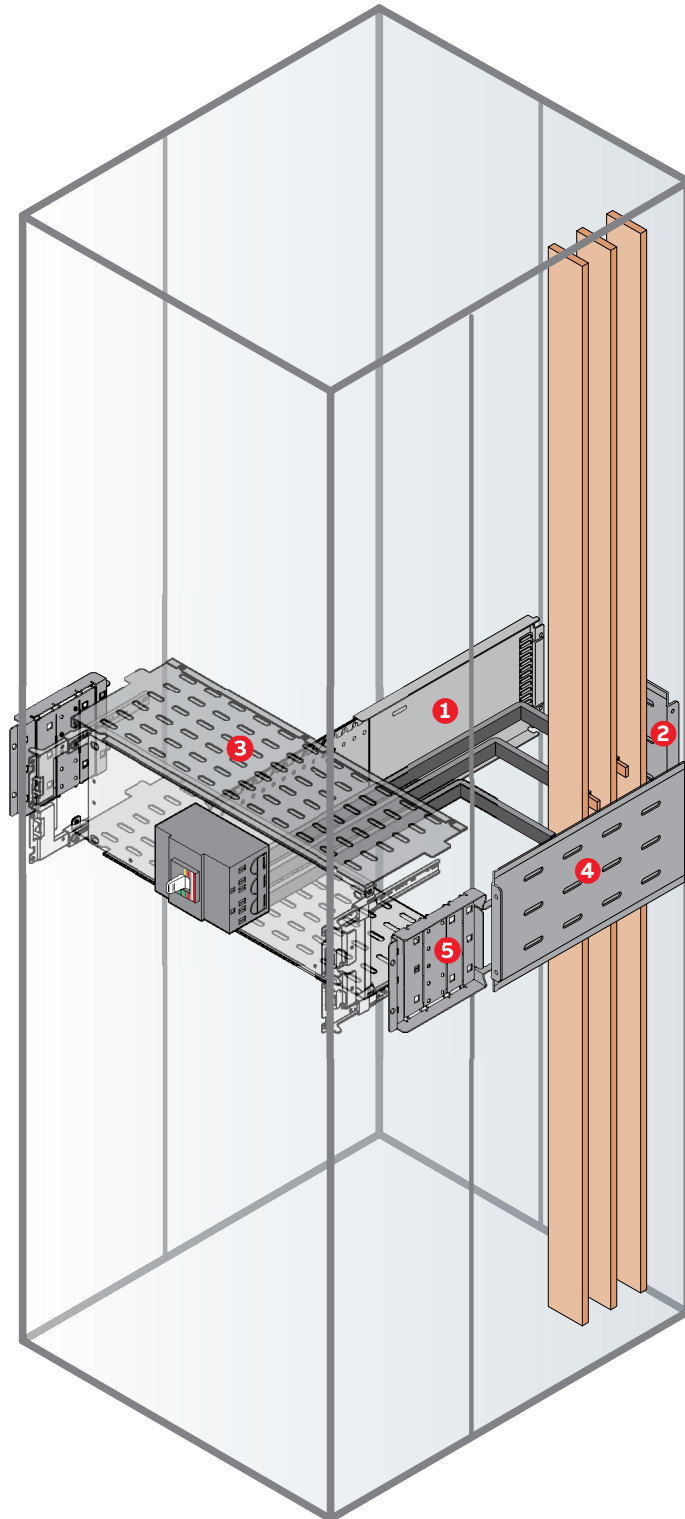


High terminal covers are available for all Tmax T/XT fixed and Emax E1.2 fixed, except for XT1, XT3 F-RC and kit PHBX3301, PHBX3401, PHBX4301, PHBX4401, PHBT4301, PHBT4406, PHBT5306, PHBT5406 and Tmax T6/T7 withdrawable and plug-in versions. For Tmax XT1/XT2/XT3/XT4 withdrawable and plug-in versions 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.

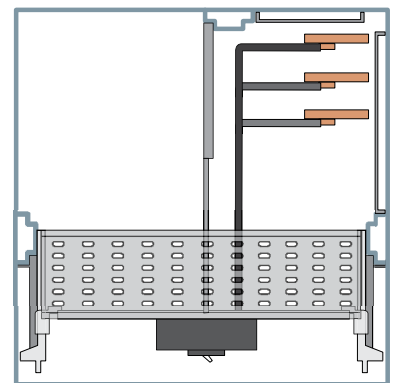
## Structure

### General information

#### Segregation Form 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

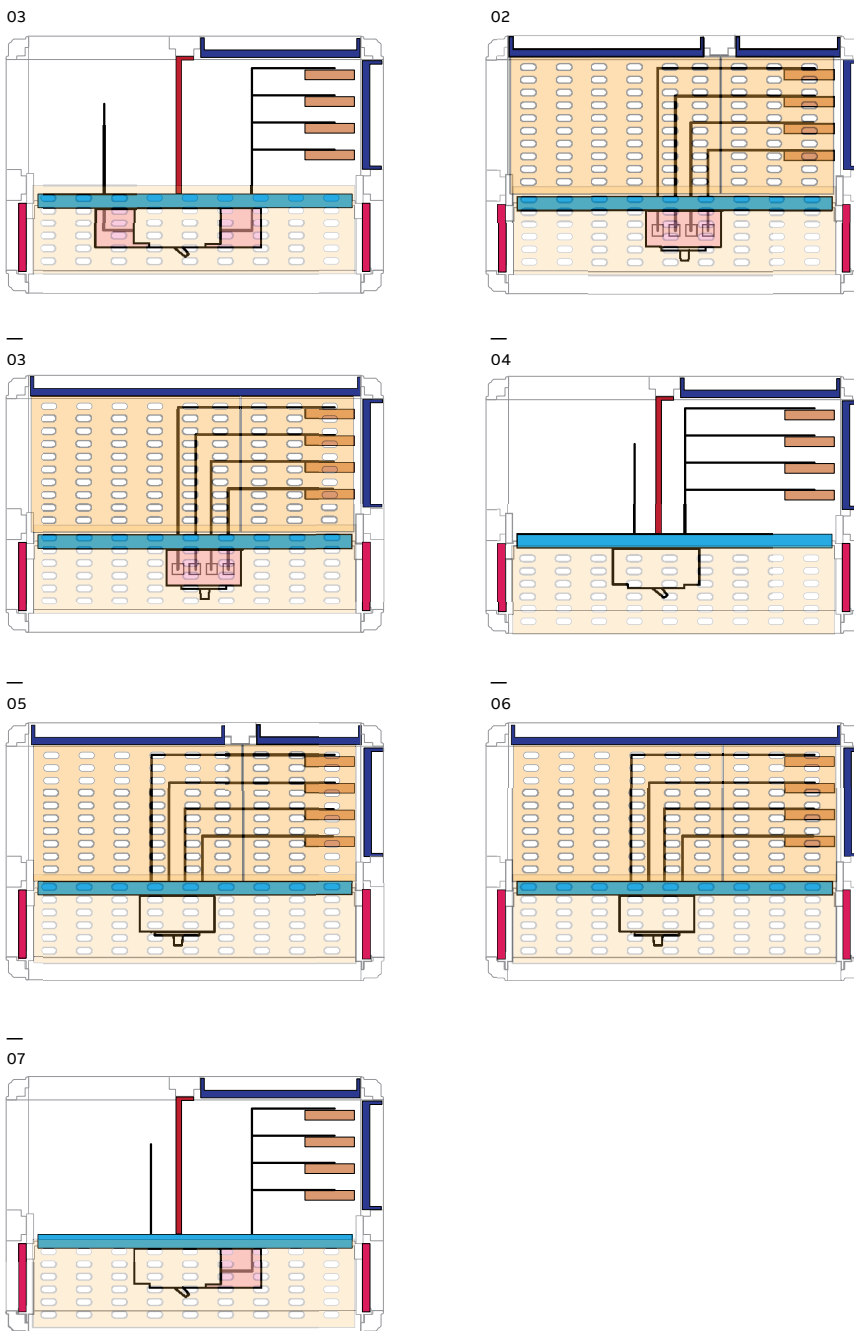
- 01 Horizontal circuit-breaker with front terminals
- 02 Vertical circuit-breaker with front terminals with rear intermediate upright\*
- 03 Vertical circuit-breaker with front terminals
- 04 Horizontal circuit-breaker with rear terminals
- 05 Vertical circuit-breaker with rear terminals with rear intermediate upright\*
- 06 Vertical circuit-breaker with rear terminals
- 07 Horizontal circuit-breaker with front/rear terminals

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



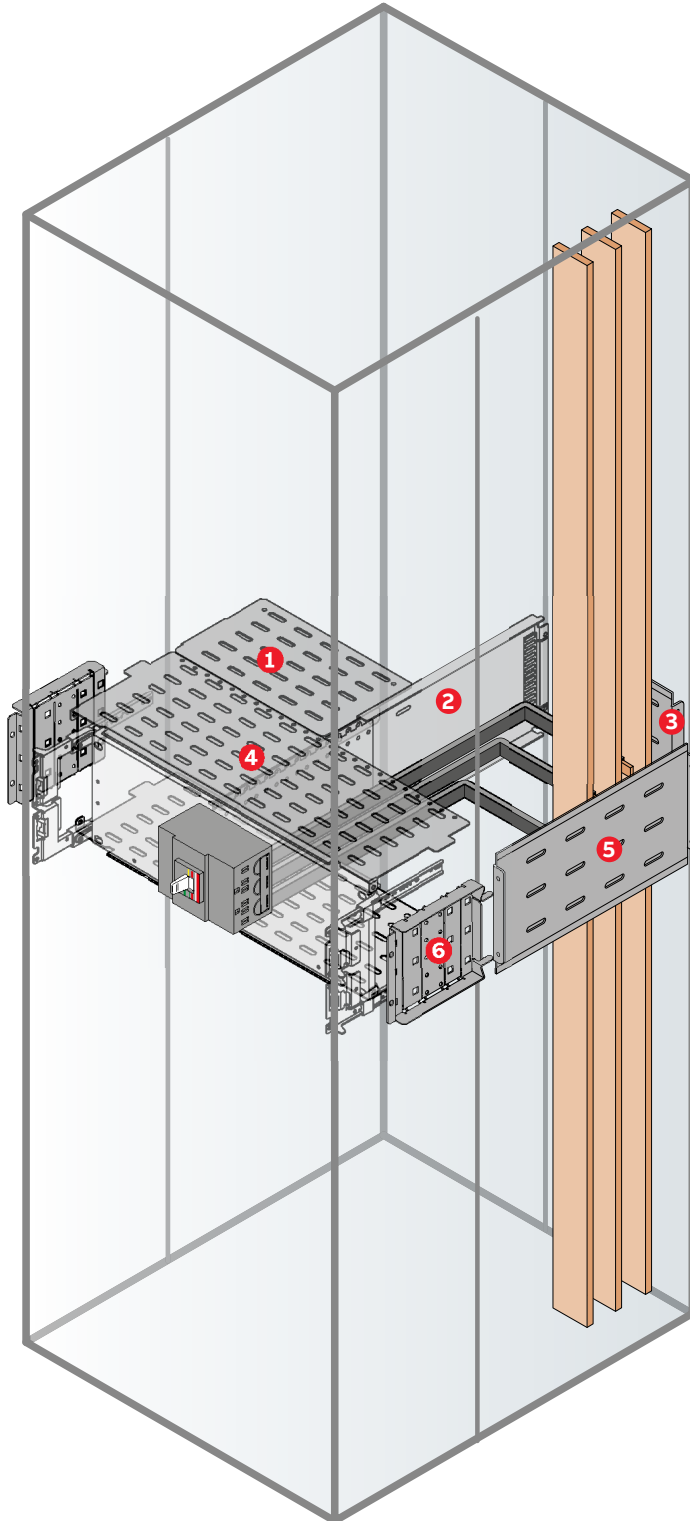
\* The rear intermediate upright is used when with the vertical breaker also an horizontal breaker is installed in the same column.

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.

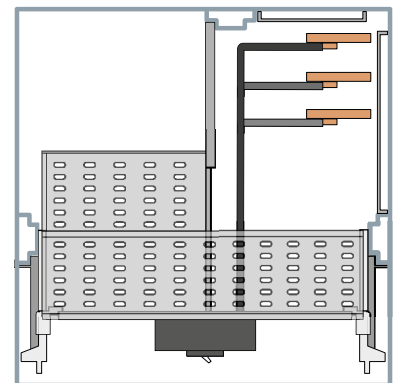
## Structure

### General information

#### Segregation Form 4b



- ❶ PCVS... Output closing cubicles, to create according to the depth and type of circuit-breaker
- ❷ PSVS... Segregation for horizontal circuit-breaker
- ❸ PSVS...1 Segregation for busbar side of horizontal circuit-breakers
- ❹ PSHS... Universal horizontal shelf
- ❺ PLVS... Vertical side segregation of horizontal circuit-breaker compartment
- ❻ PPVS... Universal compartment side closing element





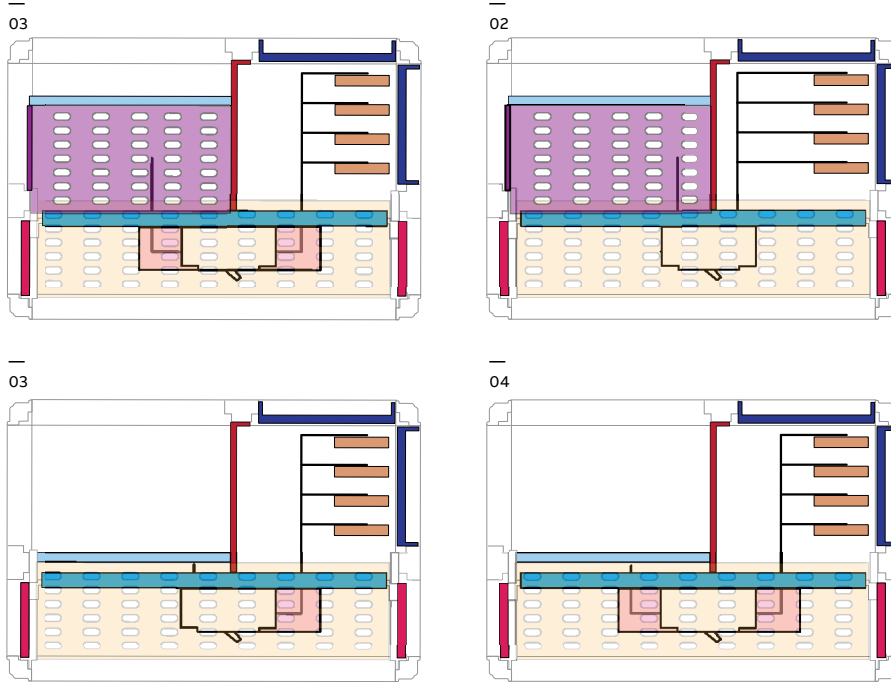
## Examples of busbar use in the structure

- 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

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 cubicles in the same column. Use universal vertical shelf PSHS.... for each compartment in order to reach Form 4b.

### Structures with intermediate upright



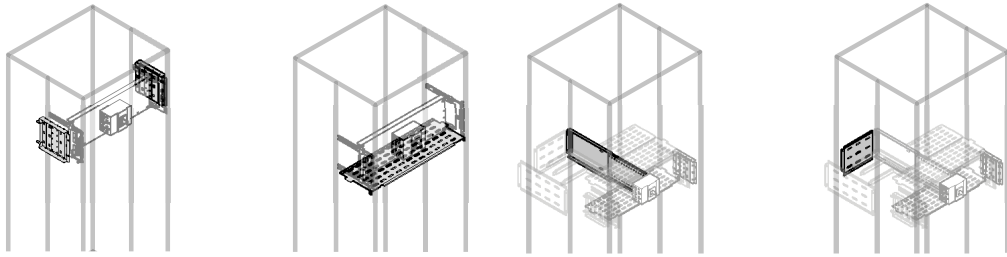
High terminal covers are available for all Tmax T/XT fixed and Emax E1.2 fixed, except for XT1, XT3 F-RC and kit PHBX3301, PHBX3401, PHBX4301, PHBX4401, PHBT4301, PHBT4406, PHBT5306, PHBT5406 and Tmax T6/T7 withdrawable and plug-in versions. For Tmax XT1/XT2/XT3/XT4 withdrawable and plug-in versions 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

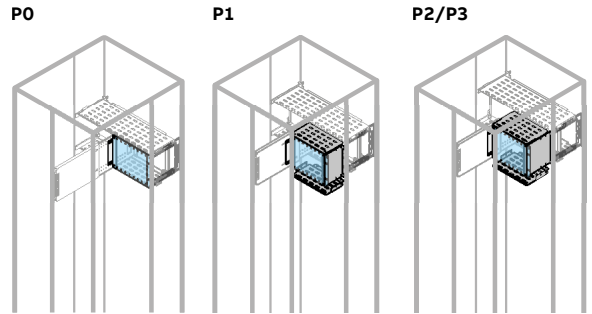
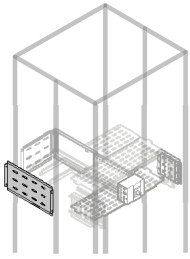


Height of kits (mm)	Form 2a	Form 3a <sup>(2)</sup>		Form 3b			Rear vertical bottom segregation on busbar side		
	Universal compartment side closing element	Universal horizontal shelf		Vertical segregation of terminals			Width of structure (mm)	For all depths	
		Width of structure (mm)	For all depths	Width of structure (mm)	Depth of structure (mm)				
					500	700	900		
200	PPVS2200	400	PSHS1904	400	PSVS2050	PSVS2070	PSVS2090	400	PRVS2041
		600	PSHS1906	600	PSVS2050	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 <sup>(1)</sup>	PSHS1906	600	PSVS4050	PSVS4070	PSVS4090	600	PRVS4061
		800 <sup>(1)</sup>	PSHS1908	800	PSVS4050	PSVS4070	PSVS4090	800	PRVS4081
500	PPVS2500	400	PSHS1904	400	PSVS5050	PSVS5070	PSVS5090	400	PRVS5041
		600 <sup>(3)</sup>	PSHS1906	600	PSVS5050	PSVS5070	PSVS5090	600	PRVS5061
		800 <sup>(3)</sup>	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						

<sup>(1)</sup> Also for fixed/interlocked horizontal Emax 2 E1.2 for W=600mm and W=800mm.

<sup>(2)</sup> To install only between kits with different depths (D≥38mm) and above and below the kit compositions (top and bottom).

<sup>(3)</sup> For T7 withdrawable and withdrawable interlocked use the segregations for horizontal E1.2 withdrawable for W=600mm and W=800mm.



For the cubicles assembly position please refer to page 5-49 taking into consideration the breakers type.

Form 4b

Cubicles to suit depth of circuit-breaker

Assembly position

Side vertical segregation <sup>(3)</sup>

Width of structure (mm)

Depth of structure (mm)

500

700

900

P0

P1

P2\*

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

<sup>(3)</sup> Only required when columns are installed side by side, to separate the cable area and busbar area.

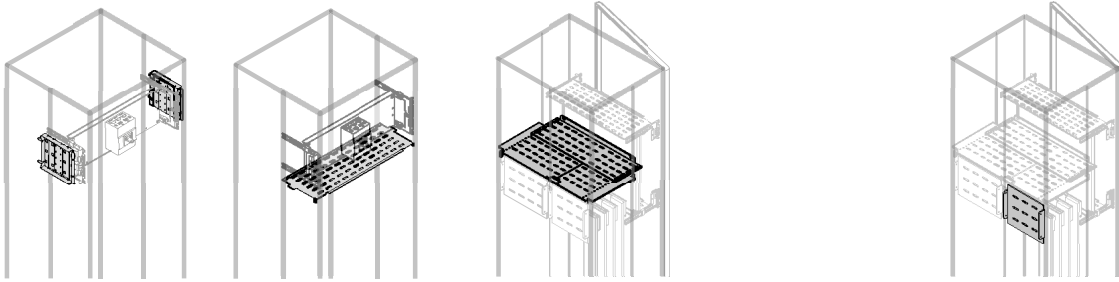
\* Alternatively, cubicle P3 can be ordered; for details see p. 5-49.

# Structure

## General information

Choice of segregation to suit height of kits  
Tmax T and Tmax XT moulded-case circuit-breakers

### Vertical installation

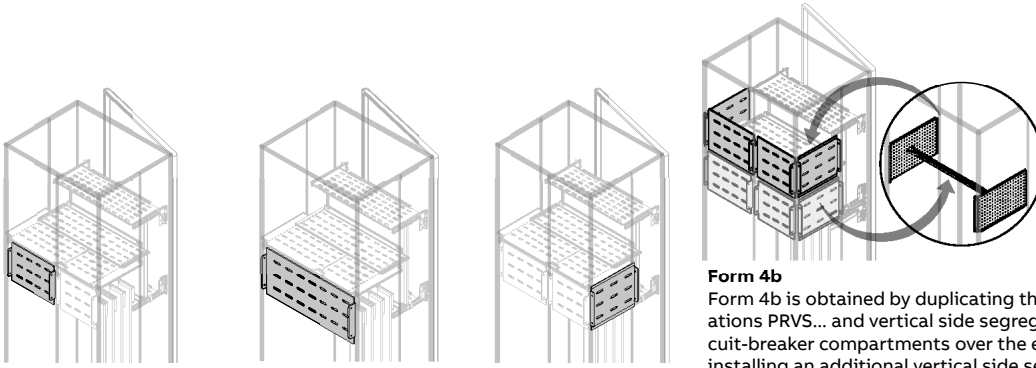


Height of kits (mm)	Form 2a	Form 3a <sup>(2)</sup>		Form 3b			Rear vertical bottom segregation on busbar side	
	Universal compartment side closing element	Universal horizontal shelf	Horizontal segregation of terminals			Width of structure (mm)	For all depths	
		Width of structure (mm)	Depth of structure (mm)					
			For all depths	500	700	900		
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 <sup>(1)</sup>	PSHS1904	PSHS4050	PSHS4070	PSHS4090	400	PRVS2241
		600 <sup>(1)</sup>	PSHS1906	PSHS6050	PSHS6070	PSHS6090	600	PRVS2261
		800 <sup>(1)</sup>	PSHS1908	PSHS8050	PSHS8070	PSHS8090	800	PRVS2251
		1000	PSHS1901				1000	
500	PPVS2500	400	PSHS1904	PSHS4050	PSHS4070	PSHS4090	400	PRVS2541
		600 <sup>(3)</sup>	PSHS1906	PSHS6050	PSHS6070	PSHS6090	600	PRVS2561
		800 <sup>(3)</sup>	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	

<sup>(1)</sup> Also for fixed/interlocked vertical Emax 2 E1.2 for W=400mm, W=600mm and W=800mm.

<sup>(2)</sup> To install only between kits with different depths (D≥38mm) and above and below the kit compositions (top and bottom).

<sup>(3)</sup> For T7 withdrawable and withdrawable interlocked 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.

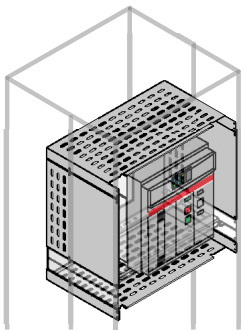
Vertical bottom segregation on busbar side		Full width vertical bottom segregation		Vertical side segregation		
Width of structure (mm)	For all depths	Width of structure (mm)	For all depths	Depth of structure (mm)		
				500	700	900
400		400				
600		600				
800		800				
1000		1000				
400		400				
600		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	PRVS3082	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			

5

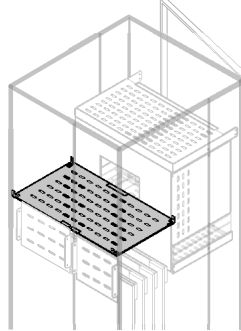
# Structure

## 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 vertical

#### Vertical fixed Emax 2

Form 2a-3a				Form 3b					
Segregation kit				Horizontal terminal separator					
Width of Kit/column (mm)	E2.2	E4.2	E6.2	Width of Kit/column (mm)	E2.2	E2.2	E4.2	E4.2	E6.2
	Height of kits (mm)				Depth (mm)				
600	600	600	700	600	700	900	700	900	900
800	PSVF6062	PSVF6064		800	PSHF6072	PSHF6092	PSHF6072	PSHF6092	
1000	PSVF6082	PSVF6084		1000	PSHF8072	PSHF8092	PSHF8072	PSHF8092	
1250			PSVF7016	1250					PSHF1096
			PSVF7126						PSHF1296

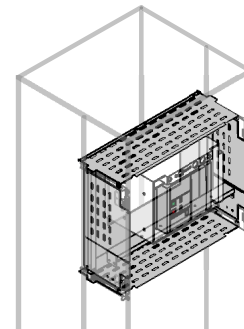
#### Vertical withdrawable Emax 2

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)							
600	500	600	600	700	600	500	700	900	700	900	700	900	900
800	PSVW5061 <sup>(1)</sup>	PSVW6062	PSVW6064		800	PSHW6051 <sup>(1)</sup>	PSHW6071 <sup>(1)</sup>	PSHW6091	PSHW6072	PSHW6092	PSHW6074	PSHW6094	
1000	PSVW5081 <sup>(1)</sup>	PSVW6082	PSVW6084		1000	PSHW8051 <sup>(1)</sup>	PSHW8071 <sup>(1)</sup>	PSHW8091	PSHW8072	PSHW8092	PSHW8074	PSHW8094	
1250		PSVW6126		PSVW7016	1250								PSHW1096
			PSVW7126										PSHW1296

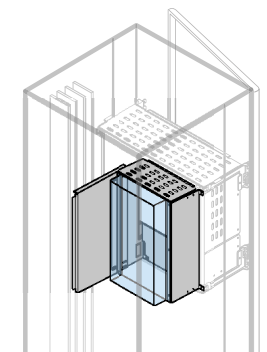
#### Horizontal withdrawable Emax 2

Height of kits (mm)	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)	
500	600	800	700	900	600	800
	PSHW5061 <sup>(2)</sup>	PSHW5081 <sup>(2)</sup>	PSVS0055 <sup>(2)</sup>	PSVS0057 <sup>(2)</sup>	PCVS5060 <sup>(2)</sup>	PCVS5080 <sup>(2)</sup>

Form 2a-3a  
E1.2 horizontal



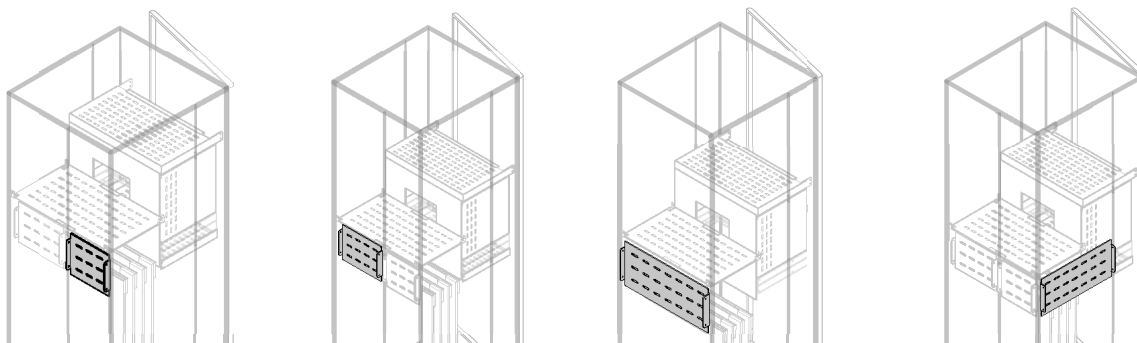
Form 3b-4b



\* For horizontal/vertica Emax E1.2 fixed see page 5-12 (kit H=400mm) and 5-14 (kit H=450mm).

<sup>(1)</sup> Also suitable for vertical T7 withdrawable and withdrawable interlocked.

<sup>(2)</sup> Also suitable for horizontal T7 withdrawable and withdrawable interlocked.



**Bottom segregations**

**Side segregations**

Width of Kit/column (mm)	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	
	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**

Width of Kit/column (mm)	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			
	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				

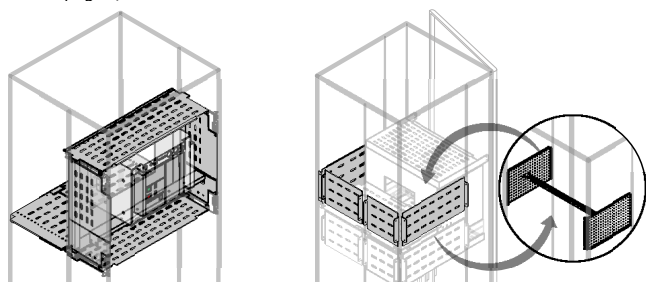
**Form 2b**

Breakers with 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.

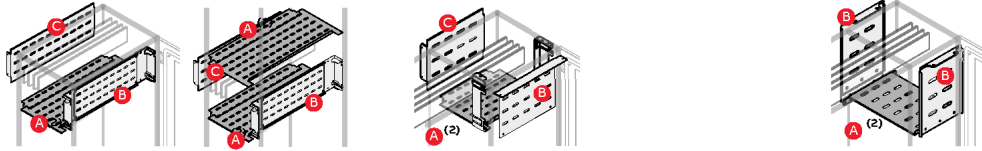
As an alternative to the PLVS... vertical side segregations, in the case of main circuit-breakers, use the PMCS... side connection module for fixing terminal extensions and the relative fixing bshelves PBMC002 (page 4-36).



# Structure

## General information

### Choice of busbars segregation

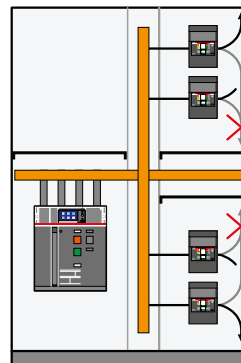


Horizontal busbars Form 2b, 4a, 3b, 4b

Width (mm)	Segregation for horizontal busbars <sup>(1)</sup>																
	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 <sup>(3)</sup>						Segregation <sup>(3)</sup>						Segregation <sup>(3)</sup>				
	A		B		C		A		B		C		A		B		
Horizontal shelves <sup>(2)</sup>		front		rear		Horizontal shelves <sup>(2)</sup>				Front		Rear		Horizontal shelves <sup>(2)</sup>		Front/Rear	
D (mm)		H (mm)		H (mm)		D (mm)		H (mm)		H (mm)		P (mm)		H (mm)		H (mm)	
300 500 700		200 200		200 200		300 500 700 900		200 200		200 200		300 500 700 900		200			
200																	
300																	
400																	
600																	
800																	
1000																	
1250																	

<sup>(1)</sup> 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.

<sup>(2)</sup> The horizontal shelves are fixed on the front vertical ones; order both.



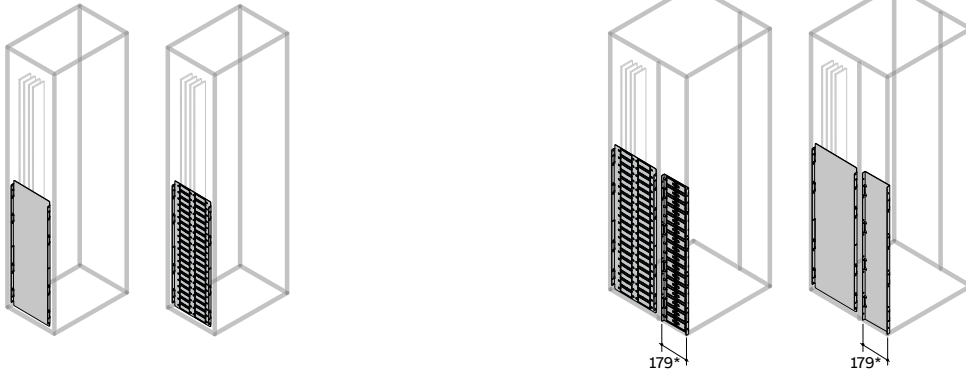




# Structure

## General information

### Choice of busbars segregation

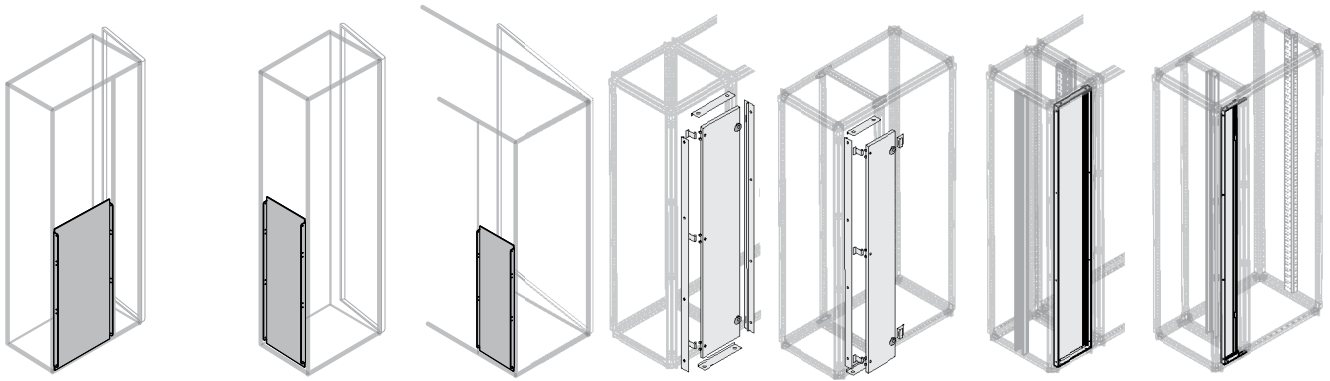


#### Vertical busbars

Height (mm)	Type	Side segregation for vertical busbars								
		Structure					Form 2b-4a <sup>(1)</sup>			
		Without intermediate upright					With intermediate upright			
		Depth (mm)					Front	Rear		
		200	300	500	700	900	179*	500	700	900
700	blind							PLVS7052	PLVS7072	PLVS7092
800	blind	PTBS8020	PTBS8030	PTBS8050	PTBS8070	PTBS8090	PTBS8001	PTBS8052	PTBS8072	PTBS8091
1000	blind	PTBS1020	PTBS1030	PTBS1050	PTBS1070		PTBS1001	PTBS1052	PTBS1072	PTVB1091
800	pre-cut	PTVS8020	PTVS8030	PTVS8050	PTVS8070		PTVS8001	PTVS8052	PTVS8072	PTVS8091
1000	pre-cut	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.

<sup>(1)</sup> 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.



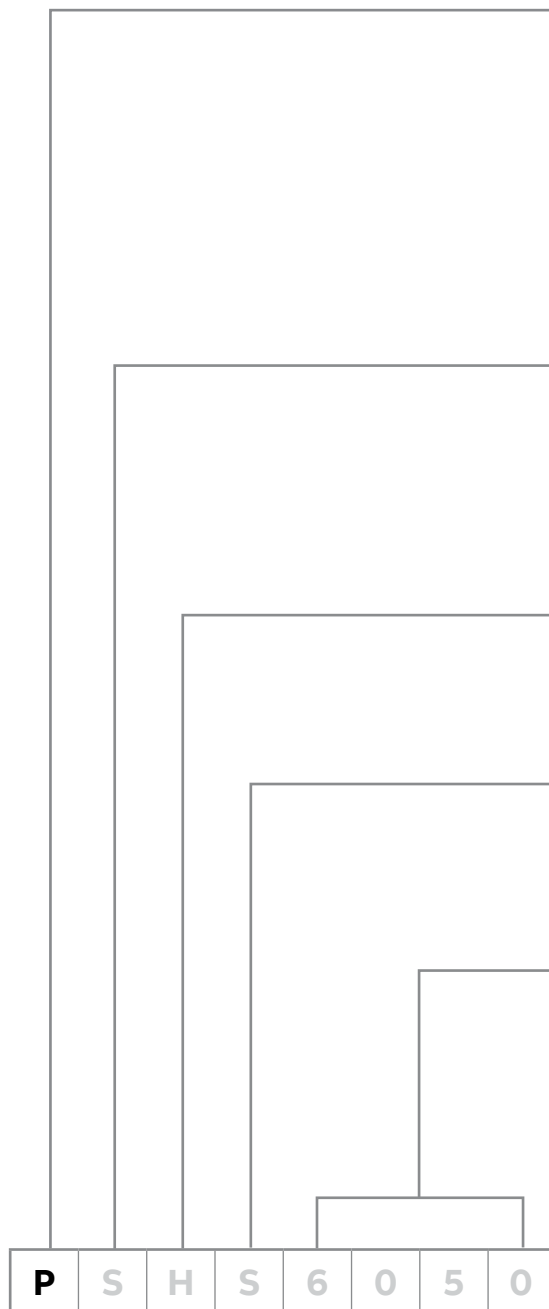
Cable compartment

Height (mm)	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)	Depth (mm)	Depth (mm)	Width (mm)	Width (mm)	Width (mm)	Width (mm)	Width (mm)	Width (mm)	Width (mm)	Width (mm)	Width (mm)	Width (mm)	Width (mm)	Width (mm)
700	500	700	900	300	400	200	400	300	400	200	400	300	400	200	400
	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 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

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

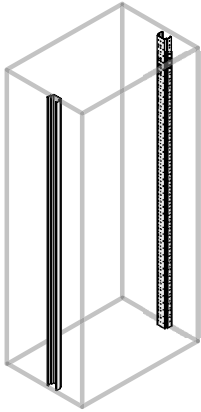
S = Structure/Struttura Segregation/  
 Segregazione  
 F = Fixed/Fisso  
 W = Withdrawable/Estraibile

### MEASUREMENTS

The last 4 numbers usually refer to a measurement of the component or several dimensions pertaining to the code.

# Segregation

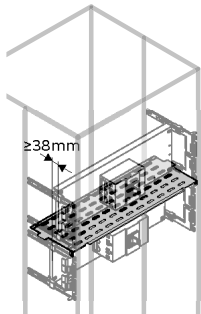
## Order codes - Form 2a-3a segregations



### 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.

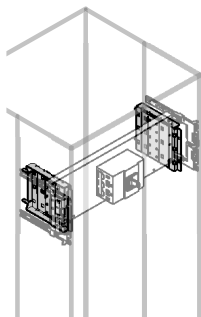
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H				
Intermediate upright	1800		PUKI1800	1STQ008039A0000	1/1
Intermediate upright	2000		PUKI2000	1STQ008040A0000	1/1



### 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)		Type	Order code	Pkg/ No. pcs
	W	H			
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

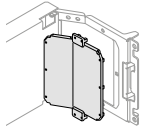
Precut universal compartment side closing element for use with both horizontal and vertical circuit-breakers. Preengineered for housing compartment side closing elements in rubber.

For structures with intermediate uprights.

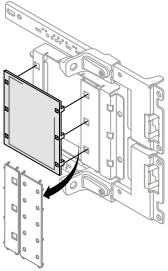
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H				
2 compartment side closing elements	200		PPVS2200	1STQ008695A0000	1/2
2 compartment side closing elements	250		PPVS2250	1STQ008696A0000	1/2
2 compartment side closing elements	300		PPVS2300	1STQ008697A0000	1/2
2 compartment side closing 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

## Segregation

Order codes - Form 2a-3a segregations



PPRS0150

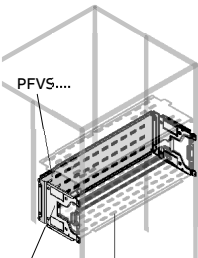


PPRS0200...  
...PPRS0600

### 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)		Rubber dimensions (mm)		Pkg/ No. pcs
	H		H		
Rubber cover	150		-		1/1
Rubber cover	200		150		1/1
Rubber cover	250		200		1/1
Rubber cover	300		250		1/1
Rubber cover	350		300		1/1
Rubber cover	400		350		1/1
Rubber cover	450		400		1/1
Rubber cover	500		450		1/1
Rubber cover	600		550		1/1



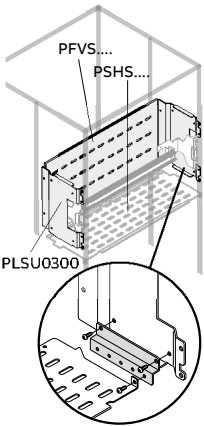
PPDS... PSHS...

### 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)		Type	Order code	Pkg/ No. pcs
	H	W			
<b>Modular apparatus H=200mm</b>					
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
<b>Modular apparatus H=300mm for centered panel</b>					
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.

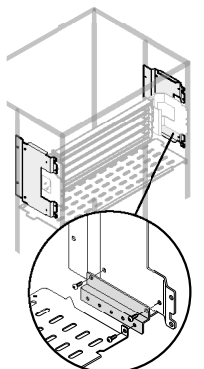


PLSU0300

### Segregation for Unifix H

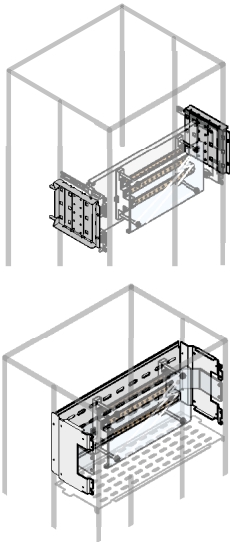
The code refers to two side walls. The segregation must be completed by ordering a front segregation and two PSHS... universal shelves, above and below. For structures with intermediate uprights.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H				
° 2 lateral closures + 2 horizontal shelf fixing brackets PSHS...	300		PLSU0300	1STQ001333B0000	1/2



# Segregation

Order codes - Form 2a-3a segregations



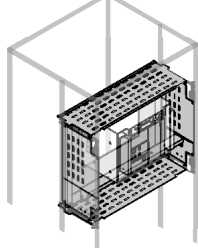
## Segregation of modular distributors AD1034-AD1053

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)		Type	Order code	Pkg/ No. pcs
	H	W			
<b>Plate mounting H=200/250/300mm</b>					
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
<b>Mounting on fixing brackets PBRF3453</b>					
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



## 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)		Type	Order code	Pkg/ No. pcs
		H	W			
<b>Horizontal circuit-breakers</b>						
E1.2	W	500	600	PSHW5061 <sup>(1)</sup>	1STQ009281A0000	1/1
E1.2	W	500	800	PSHW5081 <sup>(1)</sup>	1STQ009282A0000	1/1
<b>Vertical circuit-breakers</b>						
E1.2	W	500	600	PSVW5061 <sup>(2)</sup>	1STQ009055A0000	1/1
E1.2	W	500	800	PSVW5081 <sup>(2)</sup>	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

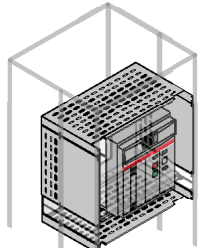
<sup>(1)</sup> Also suitable for horizontal T7 withdrawable and withdrawable interlocked.

<sup>(2)</sup> Also suitable for vertical T7 withdrawable and withdrawable interlocked.

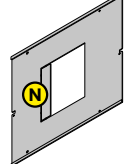
**Key:**

- F fixed
- W withdrawable

E1.2 - E2.2 - E4.2 - E6.2 vertical



T7 W - E1.2 W vertical



## Segregation

Order codes - Form 2a-3a segregations

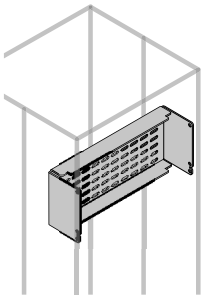
### Segregation for the SACE Emax 2 circuit-breaker for space-saving column W=400mm

The codes include two horizontal shelves, one rear plate and two side walls. For structures with intermediate uprights.

Emax 2 circuit-breaker	Version	Dimensione (mm)		Type	Order code	Pkg/ No. pcs
		H	W			
<b>Vertical circuit-breakers</b>						
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.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
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

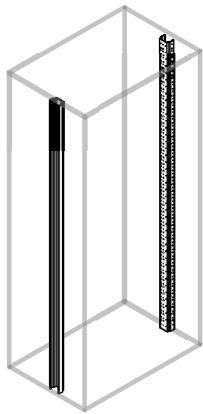
Not to mount above or below a kit with MO or a recessed external panels PPBR...

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

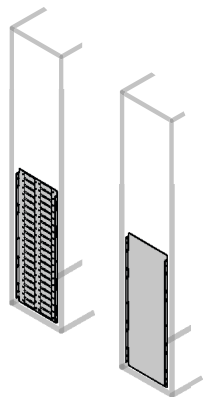


### Intermediate side and rear upright for assembly of internal kits and segregations

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)		Type	Order code	Pkg/ No. pcs
	H				
Intermediate upright	1800		PUKI1800	1STQ008039A0000	1/1
Intermediate upright	2000		PUKI2000	1STQ008040A0000	1/1

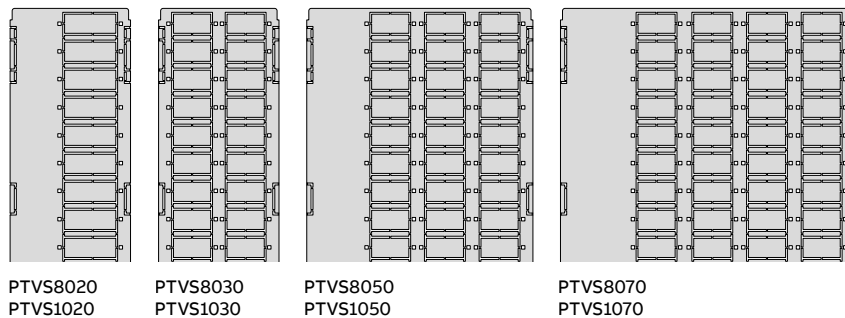
The intermediate upright is required for all segregation Forms differing from Form 2b, even when not needed by the circuit-breaker version.



### Side segregation for structure without intermediate upright

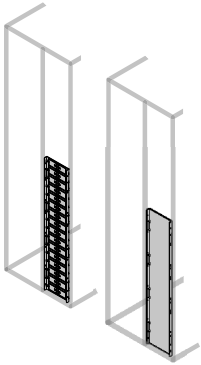
Vertical side walls for assembly between front and rear structural uprights. To use for structures with fixed circuitbreakers that do not require the intermediate upright. The precuts in the segregations are at 50mm pitch. At least three vertical ones must be removed.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	D			
<b>Precut</b>					
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
<b>Blind</b>					
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



## Segregation

Order codes - Busbar segregations Form 2b-3b-4a-4b

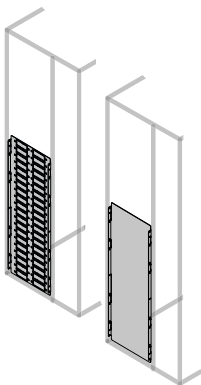


### Front side segregation for structure with intermediate upright

Precut vertical front side wall for assembly between intermediate upright and front structural upright.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H				
<b>Precut vertical front side segregation</b>					
Vertical side segregation	800		PTVS8001	1STQ008511A0000	1/1
Vertical side segregation	1000		PTVS1001	1STQ008512A0000	1/1
<b>Blind vertical front side segregation</b>					
Vertical side segregation	800		PTBS8001	1STQ008513A0000	1/1
Vertical side segregation	1000		PTBS1001	1STQ008514A0000	1/1

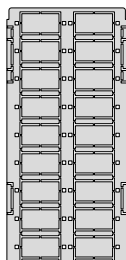
Segregation Form 3b, 4b from the intermediate upright up to the front structural upright can be obtained only by means of lateral segregation closing Form 2a-3a.



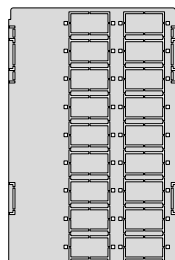
### Rear side segregation for structure with intermediate upright

Precut vertical rear side wall for assembly between intermediate upright and rear structural upright.

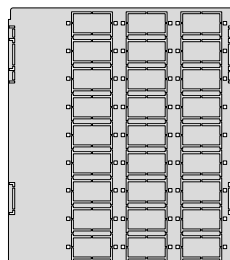
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	D			
<b>Vertical rear lateral segregation with precuts</b>					
Vertical side segregation	800	500	PTVS8052	1STQ008515A0000	1/1
Vertical side segregation	1000	500	PTVS1052	1STQ008516A0000	1/1
Vertical side segregation	800	700	PTVS8072	1STQ008517A0000	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
<b>Vertical rear lateral blind segregation</b>					
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



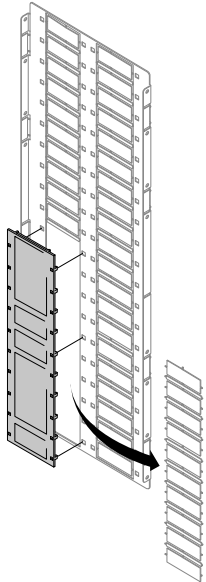
PTVS8072  
PTVS1072



PTVS8091  
PTVS1091

## Segregation

Order codes - Busbar segregations Form 2b-3b-4a-4b



### Rubber cover for precuts

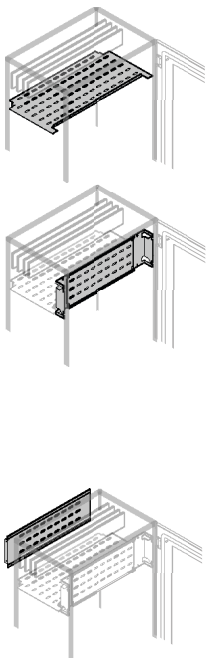
Rubber cover for precut vertical segregation for routing the connections that can be installed on vertical segregations with precuts.

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)			Type	Order code	Pkg/ No. pcs
	H					
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

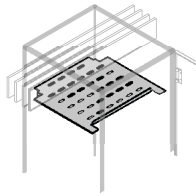
Full-width and full-depth horizontal segregations and full-width vertical segregations for routing busbars installed horizontally on the top, on the bottom, behind an empty compartment H=200mm, for structures without intermediate uprights.

Description	Dimensions (mm)			Type	Order code	Pkg/ No. pcs
	H	W	D			
<b>Horizontal busbar shelves</b>						
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
<b>Front busbar segregations</b>						
Front segregation	200	400		PFVS2040	1STQ008508A0000	1/1
Front segregation	200	600		PFVS2060	1STQ008509A0000	1/1
Front segregation	200	800		PFVS2080	1STQ008510A0000	1/1
<b>Rear busbar segregations</b>						
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.

## 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)			Type	Order code	Pkg/ No. pcs
	H	W	D			
<b>Horizontal busbar shelves</b>						
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
<b>Front busbar segregations</b>						
Front segregation	200	300		PFVS2130	1STQ008553A0000	1/1
Front segregation	200	400		PFVS2140	1STQ008554A0000	1/1
<b>Rear busbar segregations</b>						
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

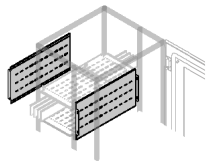
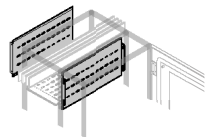
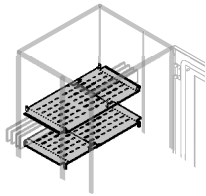
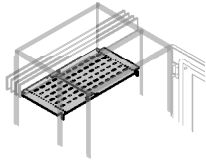
Full-width and full-depth horizontal shelves and front busbar segregations for internal cable compartments.

Description	Dimensions (mm)			Type	Order code	Pkg/ No. pcs
	H	W	D			
<b>Horizontal busbar shelves</b>						
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
<b>Front/Rear busbar segregations</b>						
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.

## Segregation

Order codes - Busbar segregations Form 2b-3b-4a-4b



### Horizontal busbar segregation in structures with intermediate upright

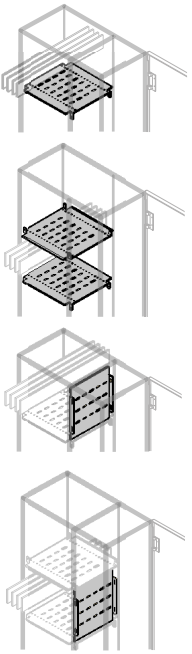
Horizontal shelves and front segregations for routing busbars installed horizontally on the top, on the bottom and at each heights. The busbar area can be 200 or 300mm in height.

Description	Dimensions (mm)			Type	Order code	Pkg/ No. pcs
	H	W	D			
<b>Horizontal shelves for busbars under the top, on the bottom and at each heights</b>						
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	
<b>Front segregation for busbars under the top, on the bottom and at each heights</b>						
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	
<b>Rear segregation for busbars under the top, on the bottom and at each heights</b>						
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	PRVS3060	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.

## Segregation

Order codes - Busbar segregations Form 2b-3b-4a-4b

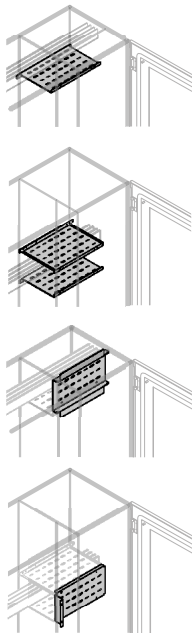


### Horizontal busbar segregation in external cable compartment with intermediate upright

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)			Type	Order code	Pkg/ No. pcs
	H	W	D			
<b>Horizontal shelves for busbars under the top, on the bottom and at each heights</b>						
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
<b>Front segregation for busbars under the top, on the bottom and at each heights</b>						
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
<b>Front segregation for busbars under the top, on the bottom and at each heights</b>						
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.

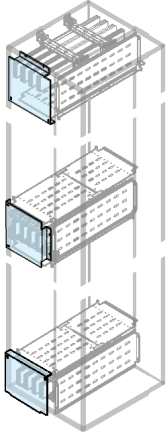
Description	Dimensions (mm)			Type	Order code	Pkg/ No. pcs
	H	W	D			
<b>Horizontal shelves for busbars under the top, on the bottom and at each heights</b>						
Horizontal shelf		200	500	PTHS2052	1STQ008573A0000	1/1
Horizontal shelf		200	700	PTHS2072	1STQ008574A0000	1/1
Horizontal shelf		200	900	PTHS2092	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
<b>Front rear segregation for busbars under the top or on the bottom</b>						
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
<b>Rear segregation for busbars at each heights</b>						
Rear segregation	200	200		PFVS2220	1STQ008571A0000	1/1
Rear segregation	200	400		PFVS2240	1STQ008572A0000	1/1
<b>Front segregation for busbars at each heights</b>						
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.

## Segregation

Order codes - Busbar segregations Form 2b-3b-4a-4b

Fig.1



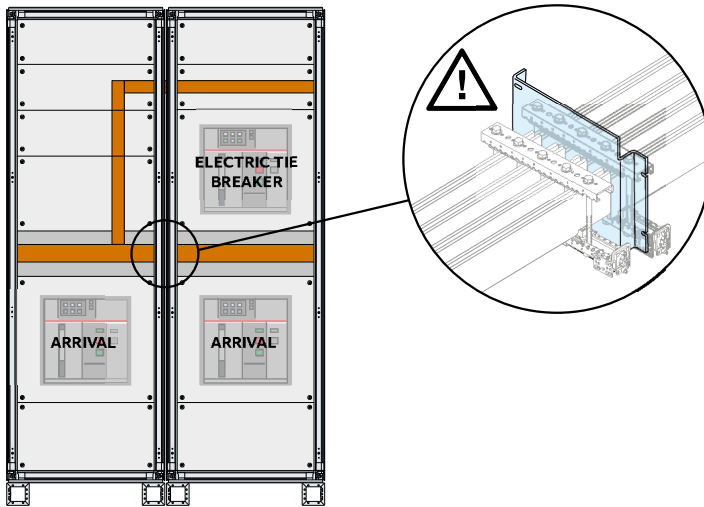
### Lateral segregation for horizontal busbars system

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)		Type	Order code	Pkg/ No. pcs
	H	D			
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

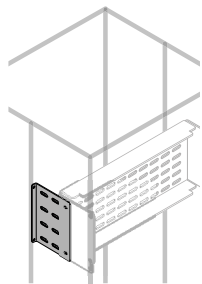
Fig.2



### Side wall for input side. For blind compartment

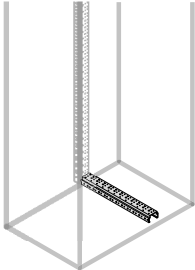
To be fitted from front upright to intermediate upright when there is an internal cable compartment alongside the blind compartment, with vertical busbars, or when the blind compartment is installed between a circuit-breaker and its feeder.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	D			
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



## Segregation

Order codes - Form 3b segregations

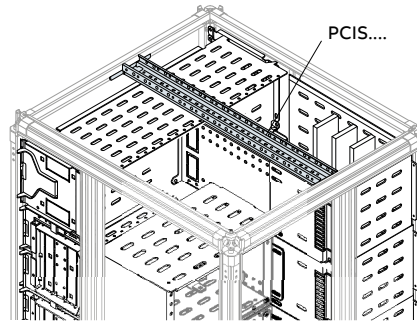
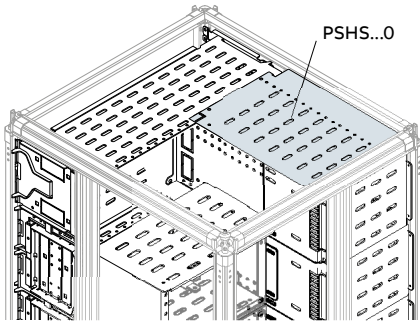


### Intermediate crosspiece for rear intermediate uprights

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.

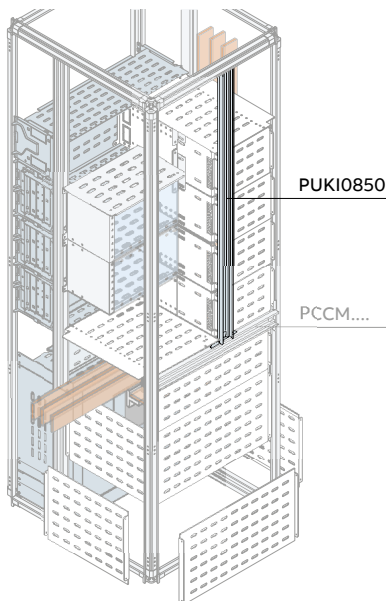
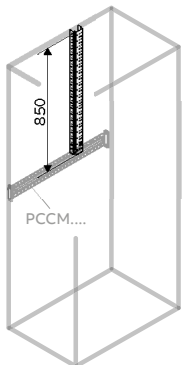
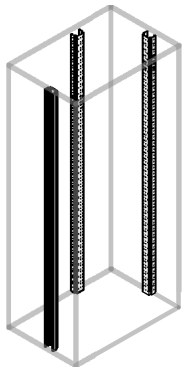
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	D				
Intermediate crosspiece	500		PCIS0500	1STQ009165A0000	1/1
Intermediate crosspiece	700		PCIS0700	1STQ009166A0000	1/1
Intermediate crosspiece	900		PCIS0900	1STQ009167A0000	1/1



### 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.

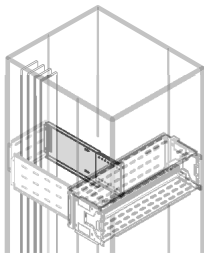
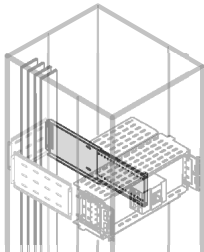
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H				
Intermediate upright	1800		PUKI1800	1STQ008039A0000	1/1
Intermediate upright	2000		PUKI2000	1STQ008040A0000	1/1
Reduced rear intermediate upright	850		PUKI0850	1STQ002348B0000	1/1





## Segregation

Order codes - Form 3b segregations



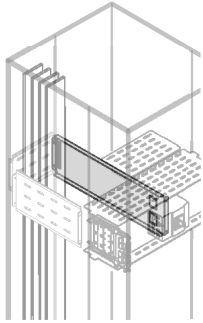
### Horizontal circuit-breaker segregation in structures with intermediate rear upright (for Tmax T e XT motorized)

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)		Type	Order code	Pkg/ No. pcs
	H	P			
<b>Vertical terminal separator with sliding plate</b>					
<b>XT1</b> 3/4P F; F-RHD; F-MO; F-RC; P; P-RHD; <b>XT2</b> 3/4P F; F-RHD; F-MO; P; P-RHD; 4P F-RC; W; W-RHD <b>XT3</b> 3/4P F; F-RHD; F-MO; P; P-RHD; <b>XT4</b> 3/4P F; F-RHD; F-MO; P; P-RHD; 4P F-RC; <b>T4</b> 3/4P F; F-RHD <b>T5</b> 3P F; F-RHD; P; P-RHD	200	500		1STQ008727A0000	1/1
<b>XT2</b> 3/4P W; W-RHD; 4P W-RC <b>XT3</b> 4P F-RC <b>XT4</b> 3/4P W; W-RHD; 4P W-RC <b>T5</b> 3/4P F; F-RHD; P; P-RHD; 4P F-RC;	250	500	PSVS2550	1STQ008728A0000	1/1
<b>T5</b> 3P W; W-RHD <b>T6</b> 3P F; F-RHD <b>XT7-T7</b> 3P F; F-I; F-I-MO; F-MO; F-RHD	300	500	PSVS3050	1STQ008729A0000	1/1
<b>T5</b> 3/4P W; W-RHD <b>T6</b> 3/4P F; F-RHD; 3P W; W-RHD <b>XT7-T7</b> 3P F; F-MO; F-RHD;	350	500	PSVS3550	1STQ008730A0000	1/1
<b>XT7-T7</b> 3/4P F-I; F-I-MO; E1.2 F; F-I	400	500	PSVS4050	1STQ008731A0000	1/1
<b>T6</b> 3/4P W; W-RHD;	500	500	PSVS5050	1STQ008733A0000	1/1
<b>XT7-T7</b> 3/4P W; W-I; W-I-MO; W-MO; W-RHD <b>E1.2</b> 3/4 P W; W-I	500	700	PSVS0055	1STQ009160A0000	1/1
	600	500	PSVS6050	1STQ008734A0000	1/1
<b>XT1</b> 3/4P F; F-RHD; F-MO; F-RC; P; P-RHD; <b>XT2</b> 3/4P F; F-RHD; F-MO; P; P-RHD; 4P F-RC; W; W-RHD <b>XT3</b> 3/4P F; F-RHD; F-MO; P; P-RHD; 4P F-RC <b>XT4</b> 3/4P F; F-RHD; F-MO; P; P-RHD; 4P F-RC; <b>T4</b> 3/4P F; F-RHD; 4P F-RC <b>T5</b> 3P F; F-RHD; P; P-RHD	200	700	PSVS2070	1STQ008735A0000	1/1
<b>XT2</b> 3/4P W; W-RHD; 4P W-RC <b>XT3</b> 4P F-RC <b>XT4</b> 3/4P W; W-RHD; 4P W-RC <b>T5</b> 3/4P F; F-RHD; P; P-RHD; 4P F-RC;	250	700	PSVS2570	1STQ008736A0000	1/1
<b>T5</b> 3P W; W-RHD <b>T6</b> 3P F; F-RHD <b>XT7-T7</b> 3P F; F-I; F-I-MO; F-MO; ; F-RHD	300	700	PSVS3070	1STQ008737A0000	1/1
<b>T5</b> 3/4P W; W-RHD <b>T6</b> 3/4P F; F-RHD; 3P W; W-RHD <b>XT7-T7</b> 3P F; F-MO; F-RHD;	350	700	PSVS3570	1STQ008738A0000	1/1
<b>XT7-T7</b> 3/4P F-I; F-I-MO; E1.2 F; F-I	400	700	PSVS4070	1STQ008739A0000	1/1
<b>T6</b> 3/4P W; W-RHD;	500	700	PSVS5070	1STQ008741A0000	1/1
<b>XT7-T7</b> 3/4P W; W-I; W-I-MO; W-MO; W-RHD <b>E1.2</b> 3/4 P W; W-I	500	900	PSVS0057	1STQ009161A0000	1/1
	600	700	PSVS6070	1STQ008742A0000	1/1
<b>XT1</b> 3/4P F; F-RHD; F-MO; F-RC; P; P-RHD; <b>XT2</b> 3/4P F; F-RHD; F-MO; P; P-RHD; 4P F-RC; W; W-RHD <b>XT3</b> 3/4P F; F-RHD; F-MO; P; P-RHD; <b>XT4</b> 3/4P F; F-RHD; F-MO; P; P-RHD; 4P F-RC; <b>T4</b> 3/4P F; F-RHD; 4P F-RC <b>T5</b> 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
<b>T5</b> 3P W; W-RHD <b>T6</b> 3P F; F-RHD <b>XT7-T7</b> 3P F; F-I; F-I-MO; F-MO; F-RHD	350	900	PSVS3590	1STQ008746A0000	1/1
<b>XT7-T7</b> 3/4P F-I; F-I-MO; E1.2 F; F-I	400	900	PSVS4090	1STQ008747A0000	1/1
<b>T6</b> 3/4P W; W-RHD;	500	900	PSVS5090	1STQ008749A0000	1/1
	600	900	PSVS6090	1STQ008750A0000	1/1

## 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.

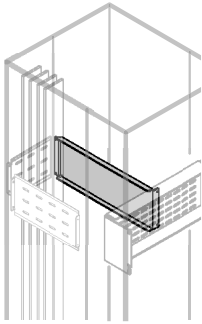
Description	Kit for installation of Tmax circuit-breakers	Dimensions (mm)		Type	Order code	Pkg/No. pcs
		H	D			
Vertical terminal separator	XT1-XT2-XT3-XT4 3/4 P MO	200	500	PSVS2051	1STQ002056B0000	1/1
	T4 3/4P F MO					
	T5 3P F MO 400/630A					
	XT2 3P W MO					
	XT1-XT2-XT3-XT4 3/4 P MO	200	700	PSVS2071	1STQ002057B0000	1/1
	T4 3/4P F MO					
	T5 3P F MO 400/630A					
	XT2 3P W MO					
	XT1-XT2-XT3-XT4 3/4 P MO	200	900	PSVS2091	1STQ002058B0000	1/1
	T4 3/4P F MO					
	T5 3P F MO 400/630A					
	XT2 3P W MO					
	T5 3/4P F MO 400/630A	250	500	PSVS2551	1STQ002059B0000	1/1
	XT2 XT4 3/4P W MO					
	T5 3/4P F MO 400/630A	250	700	PSVS2571	1STQ002060B0000	1/1
	XT2 XT4 3/4P W MO					
	T5 3/4P F MO 400/630A	250	900	PSVS2591	1STQ002061B0000	1/1
	XT2 XT4 3/4P W MO					
	T5 3P W MO	300	500	PSVS3051	1STQ002062B0000	1/1
	T5 3P W MO	300	700			
	T5 3P W MO	300	900	PSVS3091	1STQ002064B0000	1/1
	T5 3/4P W MO 400A	350	500			
	T6 3P W MO			PSVS3551	1STQ002065B0000	1/1
	T5 3/4P W MO 400A	350	700			
	T6 3P W MO			PSVS3571	1STQ002066B0000	1/1
	T5 3/4P W MO 400A	350	900			
	T6 3P W MO			PSVS3591	1STQ002067B0000	1/1
	T6 3/4P W MO	500	500			
	T6 3/4P W MO	500	700	PSVS5052	1STQ002379B0000	1/1
	T6 3/4P W MO	500	900			
	T6 3/4P W MO	500	500	PSVS5092	1STQ002381B0000	1/1
	T5 3/4P P MO	250	500			
	T5 3/4P P MO	250	700	PSVS2553	1STQ002382B0000	1/1
	T5 3/4P P MO	250	900			
	T5 3/4P P MO	250	500	PSVS2573	1STQ002383B0000	1/1
	T5 3/4P P MO	250	700			
	T5 3/4P P MO	250	900	PSVS2593	1STQ002384B0000	1/1
	T6 3P F MO	300	500			
	T6 3P F MO	300	700	PSVS5053	1STQ002385B0000	1/1
	T6 3P F MO	300	900			
	T6 3/4P F MO	350	500	PSVS5073	1STQ002386B0000	1/1
	T6 3/4P F MO	350	700			
	T6 3/4P F MO	350	900	PSVS5093	1STQ002387B0000	1/1
	T6 3/4P F MO	350	500			
	T6 3/4P F MO	350	700	PSVS3553	1STQ002388B0000	1/1
	T6 3/4P F MO	350	900			
	T6 3/4P F MO	350	500	PSVS3573	1STQ002389B0000	1/1
	T6 3/4P F MO	350	700			
	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

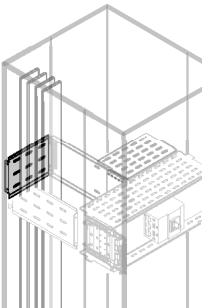
Order codes - Form 3b segregations



### Rear segregation for blind compartment

Rear vertical segregation with plate for blind compartment.

Description	Dimensions (mm)		Type	Order code	Pkg/No. pcs
	H	D			
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

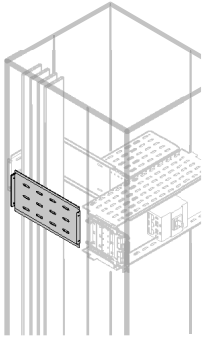
Vertical rear bottom segregation with height equal to the compartment height and width equal to the distance between intermediate rear upright and structural rear upright on the busbar side.

Description	Dimensions (mm)		Type	Order code	Pkg/No. pcs
	H	P			
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.

## Segregation

Order codes - Form 3b segregations

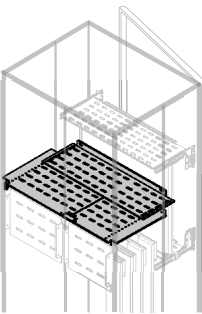


### Side segregations for horizontal circuit-breakers in structures with intermediate upright and rear structural upright

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)		Type	Order code	Pkg/ No. pcs
	H	D			
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.



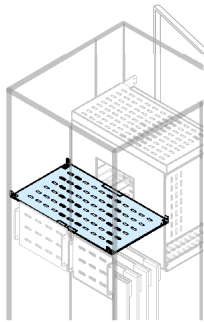
### Vertical circuit-breaker segregation in structures with or without intermediate rear upright

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)		Type	Order code	Pkg/ No. pcs
	W	D			
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

# Segregation

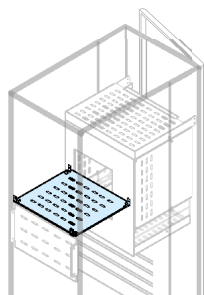
Order codes - Form 3b segregations



## Segregation in Lexan for SACE Emax2 vertical circuit-breakers in structures with or without intermediate upright

Emax 2 circuit-breaker	Version	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
		W	D			
E1.2	W	600	500	PSHW6051 <sup>(1)</sup>	1STQ009031A0000	1/1
E1.2	W	600	700	PSHW6071 <sup>(1)</sup>	1STQ009032A0000	1/1
E1.2	W	600	900	PSHW6091 <sup>(1)</sup>	1STQ009917A0000	1/1
E1.2	W	800	500	PSHW8051 <sup>(1)</sup>	1STQ009033A0000	1/1
E1.2	W	800	700	PSHW8071 <sup>(1)</sup>	1STQ009034A0000	1/1
E1.2	W	800	900	PSHW8091 <sup>(1)</sup>	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

<sup>(1)</sup> Also suitable for vertical T7 withdrawable and withdrawable interlocked.



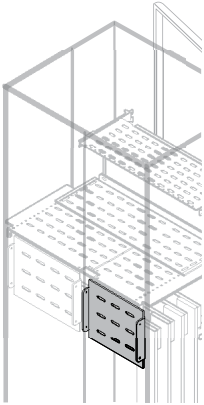
## Segregation in Lexan for the SACE Emax 2 circuit-breaker for space-saving column W=400mm

Emax 2 circuit-breaker	Version	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
		D	W			
<b>Vertical circuit-breakers</b>						
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

## Segregation

Order codes - Form 3b segregations

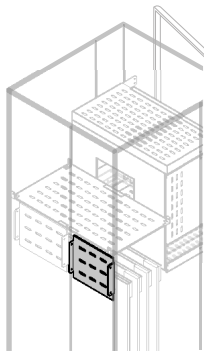


### Vertical circuit-breaker segregation (segregation on busbar side) for fixed/ interlocked T5, T6, T7 and E1.2 in structures with intermediate rear uprights

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)		Type	Order code	Pkg/ No. pcs
	H	W			
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

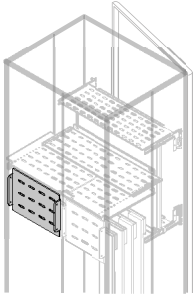
Vertical rear bottom segregation with height equal to half the compartment height and width equal to the distance between intermediate rear upright and structural rear upright on the busbar side.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
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

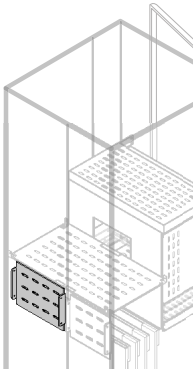


### Vertical circuit-breaker segregation (segregation on output side) for fixed/ interlocked T5, T6, T7 and E1.2 in structures with intermediate rear uprights

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)			Order code	Pkg/ No. pcs
	H	W	Type		
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

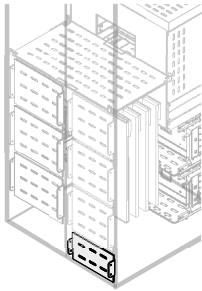
Vertical rear bottom segregation with height equal to half the compartment height and width equal to the distance between intermediate rear upright and structural rear upright on the output side.

Description	Dimensions (mm)			Order code	Pkg/ No. pcs
	H	W	Type		
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.

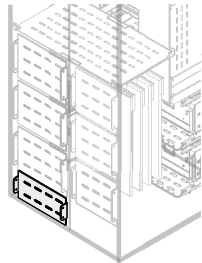
## Segregation

Order codes - Form 3b segregations



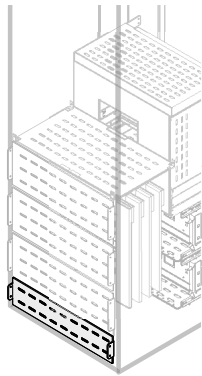
### Vertical rear segregation in structures with intermediate rear upright

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
<b>BUSBAR SIDE</b>					
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
<b>BUSBAR SIDE</b>					
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



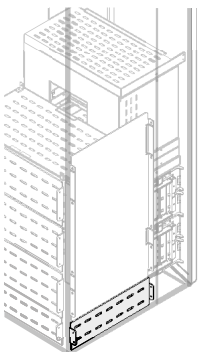
### Vertical rear segregation in structure without intermediate rear upright

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
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

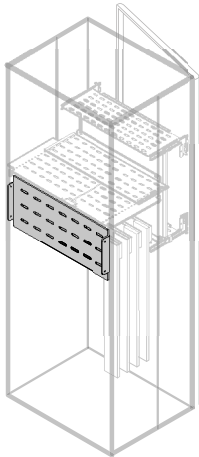
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
Side compartment segregation	50	500	PLVS0552	1STQ001986B0000	1/1
Side compartment segregation	50	700	PLVS0572	1STQ001987B0000	1/1
Side compartment segregation	50	900	PLVS0592	1STQ001988B0000	1/1
Side compartment segregation	100	500	PLVS1052	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





## Segregation

### Order codes - Form 3b segregations



#### Segregation for vertical fixed/interlocked T5, T6, T7 and E1.2 circuit-breakers in structures without intermediate upright.

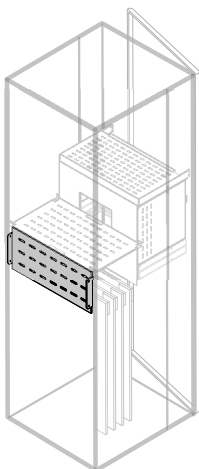
Vertical rear bottom segregation with height equal to half the compartment height and full-width.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
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.

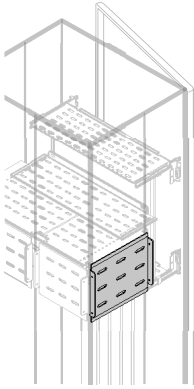


Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
Full-width vertical segregation on bottom	250	600	PRVS2560	1STQ008857A0000	1/1
Full-width vertical segregation on bottom	300	600	PRVS3060	1STQ008858A0000	1/1
Full-width vertical segregation on bottom	450	600	PRVS4560	1STQ002350B0000	1/1
Full-width vertical segregation on bottom	500	600	PRVS5060	1STQ002351B0000	1/1
Full-width vertical segregation on bottom	600	600	PRVS6060	1STQ002352B0000	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	1STQ002354B0000	1/1
Full-width vertical segregation on bottom	500	800	PRVS5080	1STQ002355B0000	1/1
Full-width vertical segregation on bottom	600	800	PRVS6080	1STQ002356B0000	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

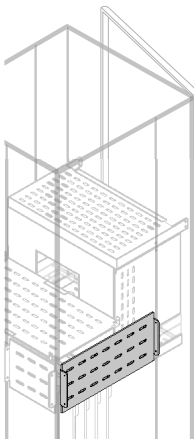


### Segregation for vertical fixed/interlocked T5, T6, T7 and E1.2 circuit-breakers with intermediate upright and structural rear upright.

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)		Type	Order code	Pkg/No. pcs
	H	W			
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

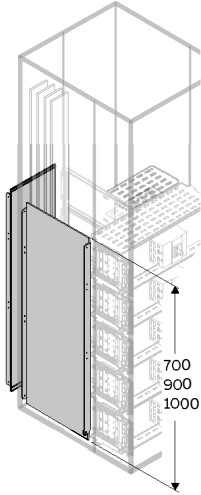
Vertical side segregation with height equal to half the circuit-breaker compartment height. Assembly between intermediate upright and rear structural upright. H=800mm or H=1000mm segregations can be used.

Description	Dimensions (mm)		Type	Order code	Pkg/No. pcs
	H	W			
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

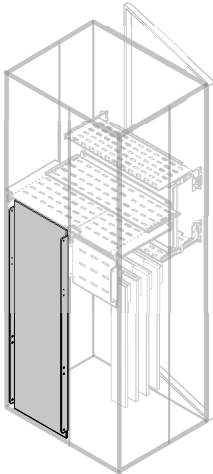
Order codes - Form 3b segregations



### 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)			Type	Order code	Pkg/ No. pcs
	H	W	D			
<b>Vertical segregatios at each height busbars side</b>						
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
<b>Vertical side segregatios at each height</b>						
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



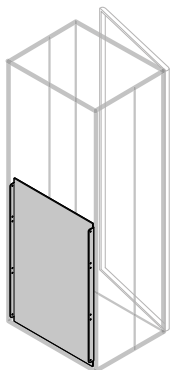
### Vertical circuit-breaker segregation in structures with intermediate rear upright

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)			Type	Order code	Pkg/ No. pcs
	H	W	D			
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

## Segregation

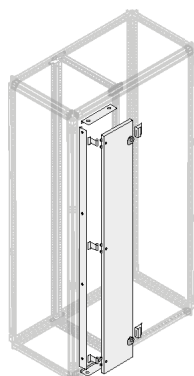
Order codes - Form 3b segregations



### Full-width vertical segregation on bottom

Full-width vertical rear segregation on bottom for structures without intermediate rear upright.

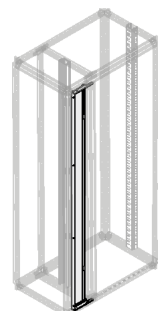
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
Full-width segregation on bottom	700	400	PRVS7040	1STQ009110A0000	1/1
Full-width segregation on bottom	800	400	PRVS8040	1STQ009111A0000	1/1
Full-width segregation on bottom	1000	400	PRVS1040	1STQ009112A0000	1/1
Full-width segregation on 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

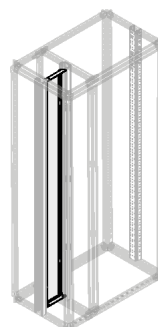
Internal door in pickled steel sheet for cable compartment IP30.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
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)		Type	Order code	Pkg/ No. pcs
	H	W			
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

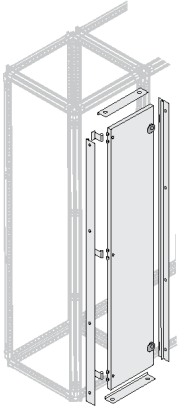


### Vertical segregation at intermediate upright in internal cable container

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
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

## Segregation

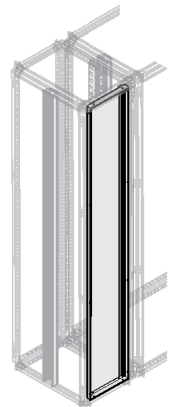
Order codes - Form 3b segregations



### Internal door for external cable compartment – Pickled steel sheet

Internal door in pickled steel sheet for cable compartment IP30.

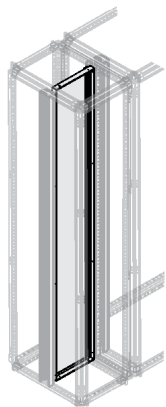
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
Blind door for external cable compartment	1800	300	PDCB1830	1STQ008086A0000	1/1
Blind door for external cable compartment	1800	400	PDCB1844	1STQ008087A0000	1/1
Blind door for external cable compartment	2000	300	PDCB2030	1STQ008088A0000	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 protection degree enclosures Form 2a-3a or in segregated enclosures from Form 3b.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
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

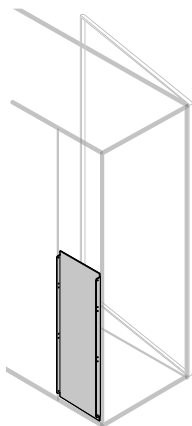


### Vertical segregation at intermediate upright in external cable container

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
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

## Segregation

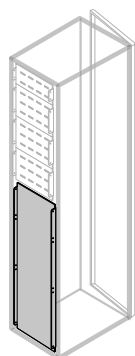
Order codes - Form 3b segregations



### Vertical rear internal segregation

Blind rear vertical segregation for internal cable compartment.

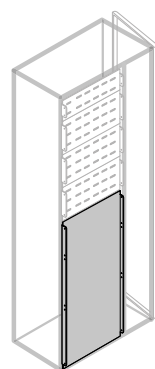
Description	Dimensions (mm)		Type	Order code	Pkg/No. pcs
	H	W			
Vertical rear segregation	800	200	PRBS8220	1STQ008915A0000	1/1
Vertical rear segregation	1000	200	PRBS1220	1STQ008916A0000	1/1
Vertical rear segregation	800	400	PRBS8240	1STQ008919A0000	1/1
Vertical rear segregation	1000	400	PRBS1240	1STQ008920A0000	1/1



### Vertical rear segregation of external cable compartment

Vertical blind rear segregation for external cable compartment.

Description	Dimensions (mm)		Type	Order code	Pkg/No. pcs
	H	W			
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

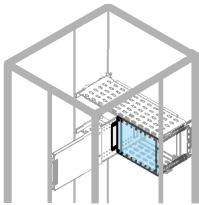
Side blind segregation for external cable compartment.

Description	Dimensions (mm)		Type	Order code	Pkg/No. pcs
	H	D			
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

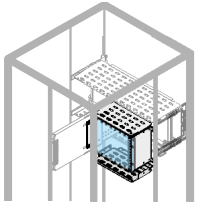
Codes PLVS... can also be mounted here.

# Segregation

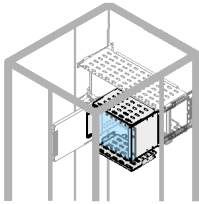
## Order codes - Form 4b segregations



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	

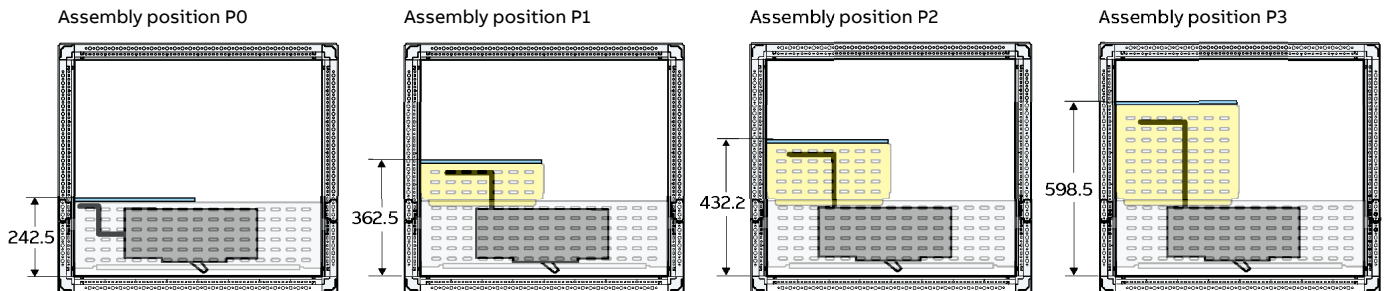
#### Minimum cubicle depth as a function of the rear terminals of the horizontal switch.

Circuit-breaker version	XT1	XT2	XT3	XT4	T4	T5	T5/XT5		T6	T6/XT6	T7	E1.2
							400A	630A				
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			P3	P3				
Withdrawable		P1		P1		P1			P1		■	■
Withdrawable with direct crank handle (RHD)		P1		P1		P1			P1		■	■
Withdrawable with motor operator (MO)		P2		P2			P3			P3		

■ See codes on page 5-16.

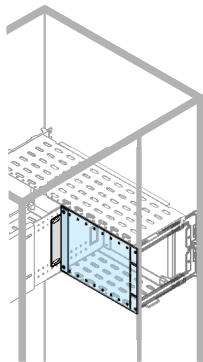
#### NOTE

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).



## Segregation

Order codes - Form 4b segregations

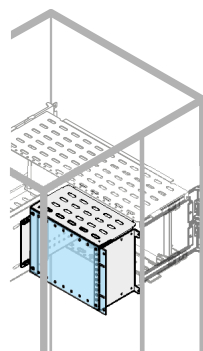


Position P0

### 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)		Type	Order code	Pkg/ No. pcs
		H	W			
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

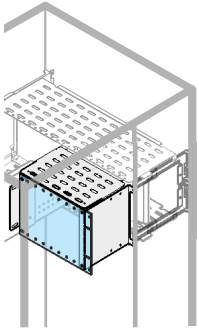
Sheet metal corner piece to fix on separator PSVS.... With vertical Lexan panel at compartment height, horizontal shelf and side wall.

Description	Assembly position	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
		H	W			
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



## 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.

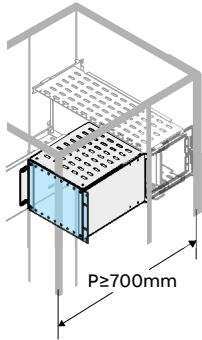
Description	Assembly position	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
		H	W			
Rear cubicle	P2	200	400	PCVS2204	1STQ008995A0000	1/1
Rear cubicle	P2	250	400	PCVS2254	1STQ008996A0000	1/1
Rear cubicle	P2	300	400	PCVS2304	1STQ008997A0000	1/1
Rear cubicle	P2	350	400	PCVS2354	1STQ008998A0000	1/1
Rear 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.

## Segregation

Order codes - Form 4b segregations



### NEW Segregation for horizontal circuit-breakers in position 3

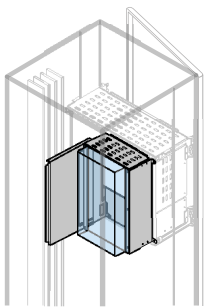
Sheet metal corner piece to fix on separator PSVS.... With vertical Lexan panel at compartment height, horizontal shelf and side wall.

Minimum installation depth 700mm

Description	Assembly position	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
		H	W			
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	Assembly position	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
		H	W			
Rear cubicle		500	600	PCVS5060	1STQ009162A0000	1/1
Rear cubicle		500	800	PCVS5080	1STQ009163A0000	1/1

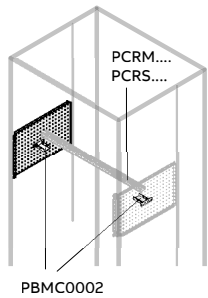
### Horizontal segregation for cubicles

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)		Type	Order code	Pkg/ No. pcs
		H	W			
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

## Segregation

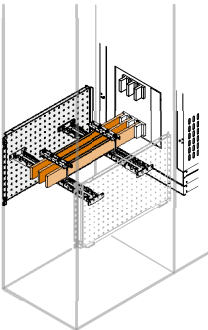
Order codes - Form 4b segregations



### 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 PBMCO002. The crosspiece is to be chosen and ordered separately according to the width of the structure.

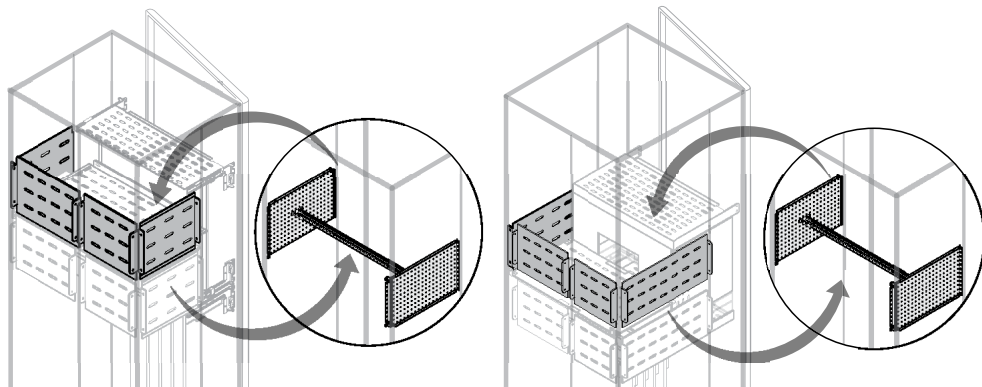


Description	Dimensions (mm)		Type	Order code	Pkg/No. pcs
	H	P			
Lateral connection module	175	500	PMCS1755	1STQ009200A0000	1/1
Lateral connection module	200	500	PMCS2050	1STQ009201A0000	1/1
Lateral connection module	225	500	PMCS2255	1STQ009202A0000	1/1
Lateral connection module	250	500	PMCS2550	1STQ009203A0000	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			PBMCO002	1STQ009215A0000	1/1

PMCS... not compatible with busbar connection bracket PBMCO003 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 bsshelfets PBMCO002 (page 4-36).



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## **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**

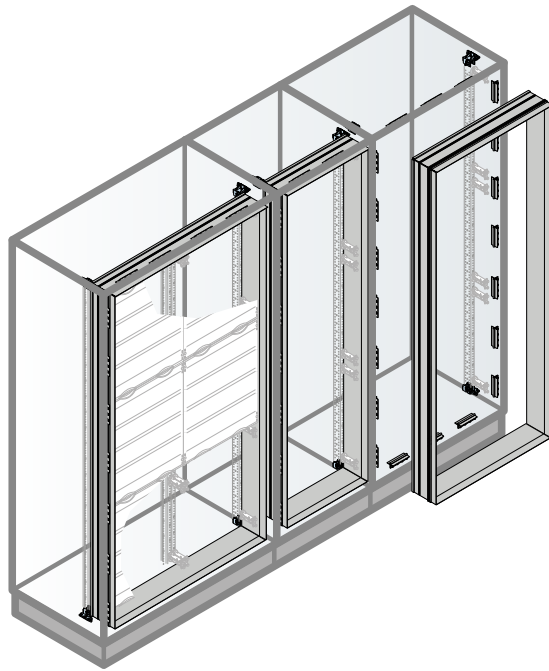
# Dedicated solution

## 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.



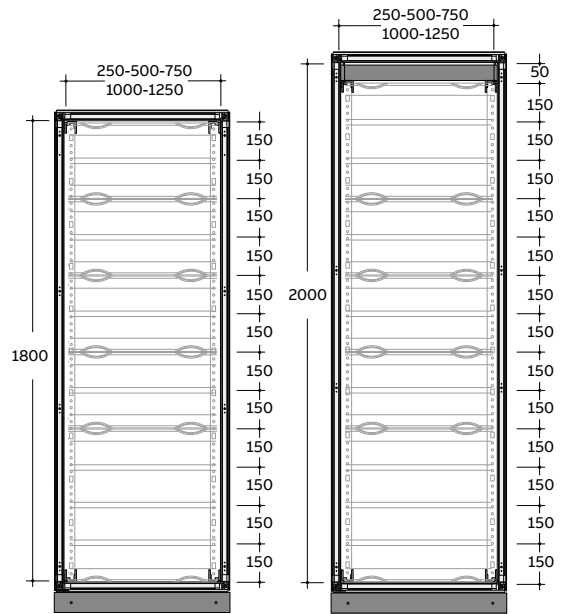
Fast, efficient and easy to combine - just three product features of this system that speak for themselves. The result: maximum options using a minimum of components.

### 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.



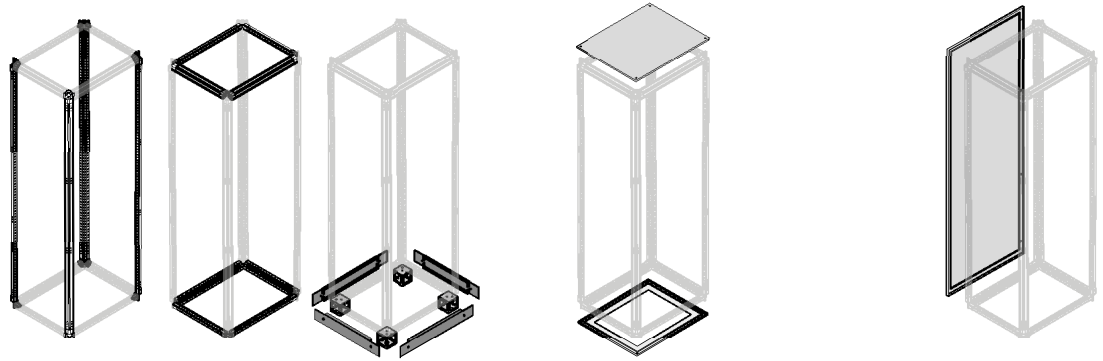
GU-modules 12

GU-modules 13



# Dedicated solution

## CombiLine-M - Quick selection guide



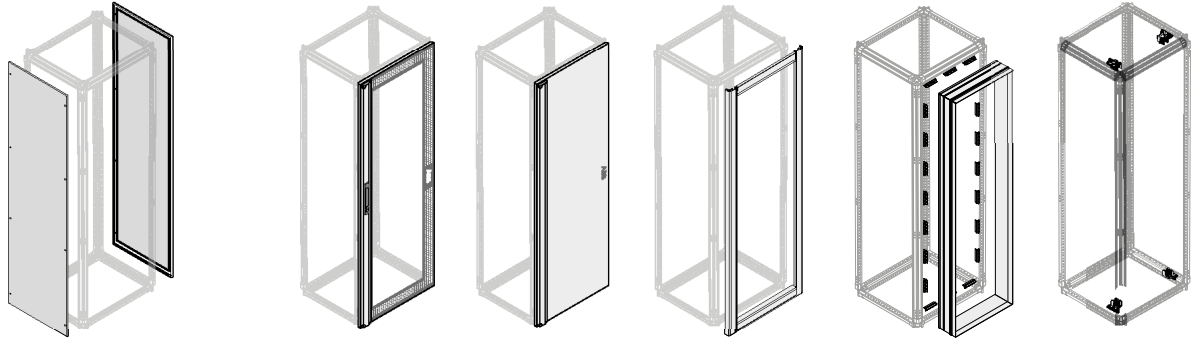
H=1800mm recommended installation solutions  
GU-modules 12

Functional dimensions		External dimensions *		FRAME							EXTERNAL COVERS									
W	D	W	D	PW-mod.	Galvanized sheet metal In≤4000A **	Front/Rear	Sides	Angle pieces	Front/Rear	Sides	Top/bottom panels			Front/rear/side panels						
						Galvanized sheet metal In≤4000A **		Galvanized sheet metal In≤4000A **		Plinth flanges		Blind		Open <sup>(2)</sup>		Bottom		Rear panel		
												Blind		Open <sup>(2)</sup>		Without plinth		Blind		
Height 1800mm	Height 2013mm											IP30 <sup>(1)</sup>		IP40 <sup>(1)</sup>						
W (mm)	D (mm)	W (mm)	D (mm)								IP65	IP30 <sup>(1)</sup>	IP40 <sup>(1)</sup>	IP65	IP40 <sup>(3)</sup>	IP65	IP40 <sup>(4)</sup>			
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	PTBB5056	PTBB5050	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							PPEB1820 <sup>(4)</sup>	PPLB1820 <sup>(5)</sup>
	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.

<sup>(1)</sup> In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit, page 2/23.  
<sup>(2)</sup> Use the dedicated incoming cable flanges to obtain protection class IP65.





COMBILINE

Finishing profiles IP30

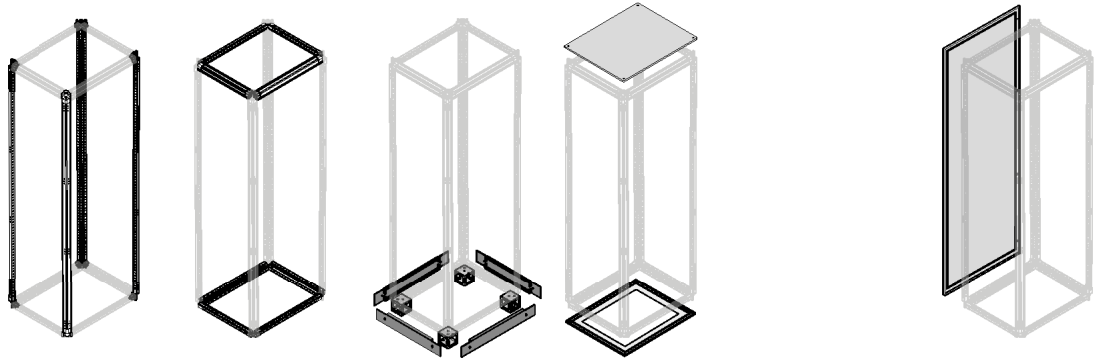
Side panel			Glass door 12/24/36/48 mod. DIN		Blind door 12/24/36/48 mod. DIN		Vertical profile		Horizontal profile		Touch-guard	Bracket	WR frame	Depth support <sup>(8)</sup>
Vented	Blind	Vented	IP30 <sup>(4)</sup>	IP65	IP30 <sup>(4)</sup>	IP65	IP30 <sup>(4)</sup>	IP40 <sup>(4)</sup>	Vertical profile	Horizontal profile	PCTG1825	PBCM0004	WR181	
			IP30 <sup>(4)</sup>	IP65	IP30 <sup>(4)</sup>	IP65	IP30 <sup>(4)</sup>	IP40 <sup>(4)</sup>	PPFV1800	PPFH0250	PCTG1825	PBCM0004	WR181	
			PPEB1826	PPEB1826	PPEB1820									
			PPEB1836	PPEB1836	PPEB1830									
			PPEB1856	PPEB1856	PPEB1850									
			PPEB1876	PPEB1876	PPEB1870									
			PPEB1896	PPEB1896	PPEB1890									
			PPEB1826	PDLG1856	PPEB1820	PDLG1850	PDLB1856	PDLB1850	PPFV1800	PPFH0500	PCTG1850	PBCM0004	WR281	
			PPEB1836	PDLG1856	PPEB1830	PDLG1850								
			PPEB1856	PDLG1856	PPEB1850	PDLG1850								
			PPEB1876	PDLG1856	PPEB1870	PDLG1850								
			PPEB1896	PDLG1856	PPEB1890	PDLG1850								
			PPEB1826	PDLG1876	PPEB1820	PDLG1870	PDLB1876	PDLB1875	PPFV1800	PPFH0750	PCTG1875	PBCM0004	WR381	
			PPEB1836	PDLG1876	PPEB1830	PDLG1870								
			PPEB1856	PDLG1876	PPEB1850	PDLG1870								
			PPEB1876	PDLG1876	PPEB1870	PDLG1870								
			PPEB1896	PDLG1876	PPEB1890	PDLG1870								
			PPEB1826	PDLG1816	PPEB1820	PDLG1810	PDLB1816	PDLB1810	PPFV1800	PPFH1000	PCTG1810	PBCM0004	WR281 WR381	PDFC0200 PDFC0300
			PPEB1836	PDLG1816	PPEB1830	PDLG1810								PDFC0500
			PPEB1856	PDLG1816	PPEB1850	PDLG1810								PDFC0700
			PPEB1876	PDLG1816	PPEB1870	PDLG1810								PDFC0900
			PPEB1896	PDLG1816	PPEB1890	PDLG1810								PDFC0900
			PPRA1820 <sup>(4)</sup>	PDLB8120 <sup>(6)</sup>	PPEB1820		PDLB8120 <sup>(6)</sup>	PDLB8120 <sup>(6)</sup>	PPFV1800	PPFH1250	PCTG1812	PBCM0004	WR281	PDFC0200
			PPLA1820 <sup>(5)</sup>	PDLG8500 <sup>(7)</sup>	PPEB1820		PDLB8500 <sup>(7)</sup>	PDLB8500 <sup>(7)</sup>					WR381	PDFC0300
					PPEB1836									PDFC0500
					PPEB1856									PDFC0700
					PPEB1876									PDFC0900
					PPEB1896									PDFC0900

<sup>(3)</sup> Bottom for switchboard without plinth complete with the dedicated set of brackets, which can be ordered separately.  
<sup>(4)</sup> Right rear panel for structures W=1250mm.  
<sup>(5)</sup> Left rear panel for structures W=1250mm.

<sup>(6)</sup> Door with overlapping for the double door version.  
<sup>(7)</sup> Door with handle for the double door version.  
<sup>(8)</sup> Order the RZ1P4 older for two frame.

## Dedicated solution

### CombiLine-M - Quick selection guide



#### H=2000mm recommended installation solutions GU-modules 13

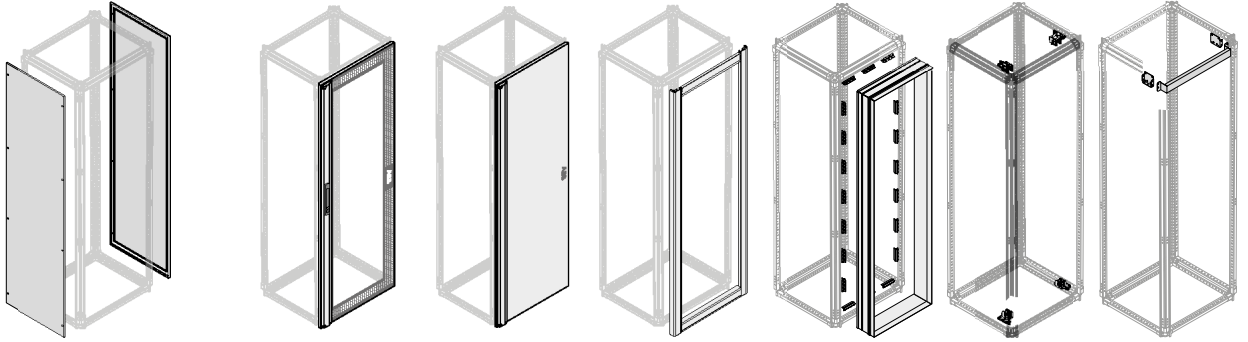
Functional dimensions		External dimensions *		FRAME							EXTERNAL COVERS						
W	D	W	D	PW-mod.	Galvanized sheet metal ** In≤4000A	Front/Rear	Sides	Angle pieces	Front/Rear	Sides	Top/bottom panels			Front/rear/side panels			
Height 2000mm	Height 2213mm										Top/Bottom		Blind	Open <sup>(2)</sup>	Bottom Without plinth	Rear panel	Blind
											IP65	IP30 <sup>(1)</sup> IP40 <sup>(1)</sup>	IP65	IP40 <sup>(3)</sup>	IP65	IP40 <sup>(1)</sup>	
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	PTBB5056	PTBB5050	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 <sup>(4)</sup>	PPLB2020 <sup>(5)</sup>
	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.

<sup>(1)</sup> In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit, page 2/23.

<sup>(2)</sup> Use the dedicated incoming cable flanges to obtain protection class IP65.

<sup>(3)</sup> Front terminals with rear exit, only Form 1. <sup>(4)</sup> Only Form 1.



COMBILINE

Finishing profiles IP30

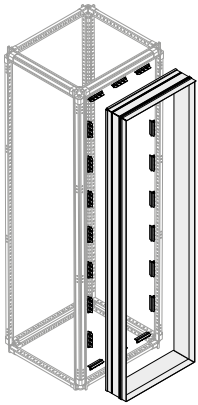
Side panel			Glass door 12/24/36/48 mod. DIN		Blind door 12/24/36/48 mod. DIN		Vertical profile		Horizontal profile		Touch-guard	Bracket	Adaptor for height 2000mm	WR frame	Depth support <sup>(8)</sup>	
Vented	Blind	Vented	IP30 <sup>(1)</sup>	IP65	IP30 <sup>(1)</sup>	IP65	IP30 <sup>(1)</sup>	IP40 <sup>(1)</sup>	IP30 <sup>(1)</sup>	IP40 <sup>(1)</sup>	PPFV2000	PPFH0250	PCTG2025	PBCM0004	PCCM2025	WR191
	PPEB2026	PPEB2020				PDLB2026	PDLB2025									
	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 <sup>(4)</sup>	PPEB2026	PPEB2020				PDLB2120 <sup>(6)</sup>		PDLB2120 <sup>(6)</sup>	PPFV2000	PPFH1250	PCTG2012	PBCM0004	PCCM2012		WR291	PDFC0200
PPLA2020 <sup>(5)</sup>	PPEB2036	PPEB2030	PPEA2030			PDLG2500 <sup>(7)</sup>		PDLB2500 <sup>(7)</sup>							WR391	PDFC0300
	PPEB2056	PPEB2050	PPEA2050													PDFC0500
	PPEB2076	PPEB2070	PPEA2070													PDFC0700
	PPEB2096	PPEB2090	PPEA2090													PDFC0900

<sup>(3)</sup> Bottom for switchboard without plinth complete with the dedicated set of brackets, which can be ordered separately.  
<sup>(4)</sup> Right rear panel for structures W=1250mm.  
<sup>(5)</sup> Left rear panel for structures W=1250mm.

<sup>(6)</sup> Door with overlapping for the double door version.  
<sup>(7)</sup> Door with handle for the double door version.  
<sup>(8)</sup> Order the RZ1P4 older for two frame.

# Dedicated solution

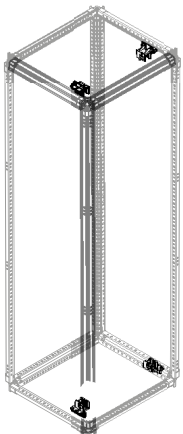
## CombiLine-M - Order codes



### Touch guard profile - dedicated solution for CombiLine-M

Profile to guarantee IP30 touch protection with CombiLine-M modules installed.  
Short version is dedicate to cabinet with  $D \leq 300\text{mm}$

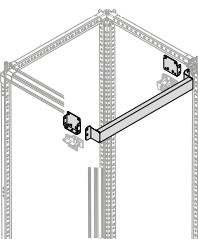
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
Touch guard profile - short version	1800	250	PNTG1825	1STQ007322B0000	1/1
Touch guard profile - short version	1800	500	PNTG1850	1STQ007323B0000	1/1
Touch guard profile - short version	1800	750	PNTG1875	1STQ007324B0000	1/1
Touch guard profile - short version	1800	1000	PNTG1810	1STQ007325B0000	1/1
Touch guard profile - short version	1800	1250	PNTG1812	1STQ007326B0000	1/1
Touch guard profile - standard version	1800	250	PNTG6825	1STQ007337B0000	1/1
Touch guard profile - standard version	1800	500	PNTG6850	1STQ007338B0000	1/1
Touch guard profile - standard version	1800	750	PNTG6875	1STQ007339B0000	1/1
Touch guard profile - standard version	1800	1000	PNTG6810	1STQ007340B0000	1/1
Touch guard profile - standard version	1800	1250	PNTG6812	1STQ007341B0000	1/1
Touch guard profile - standard version	2000	250	PNTG6025	1STQ007342B0000	1/1
Touch guard profile - standard version	2000	500	PNTG6050	1STQ007343B0000	1/1
Touch guard profile - standard version	2000	750	PNTG6075	1STQ007344B0000	1/1
Touch guard profile - standard version	2000	1000	PNTG6010	1STQ007345B0000	1/1
Touch guard profile - standard version	2000	1250	PNTG6012	1STQ007346B0000	1/1



### Fixing set - dedicated solution for CombiLine-M

Fixed set for the adaptation of standard WR frame on System pro E power structure.

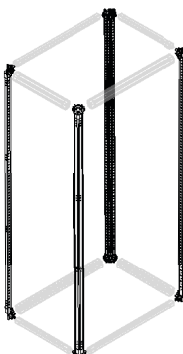
Description	Type	Order code	Pkg/ No. pcs
CombiLine-M fixing set	PBCM0004	1STQ009354A0000	1/4
<b>Depth support</b>			
No.2 CombiLine crosspieces for frame D=200mm	PDFC0200	1STQ001929B0000	1/2
No.2 CombiLine crosspieces for frame D=300mm	PDFC0300	1STQ001930B0000	1/2
No.2 CombiLine crosspieces for frame 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)		Type	Order code	Pkg/ No. pcs
	H	W			
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  $I_n \leq 4000\text{A}$ .

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
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



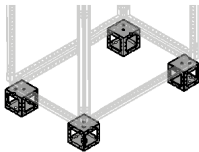
#### Structure crosspieces – Galvanized sheet metal \*

Depth and width crosspieces for structures in galvanized sheet metal. For applications with  $I_n \leq 4000A$ .

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
<b>Width crosspieces</b>					
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
<b>Depth crosspieces</b>					
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..

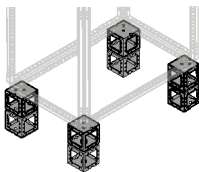
PPAM0100



#### Universal angle pieces for plinths in galvanizing 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.

PPAM0200

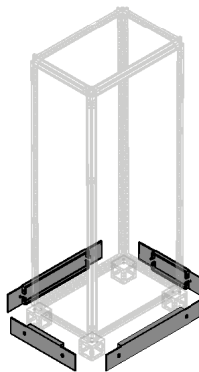


Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H				
No.4 plinth angle pieces	100		PPAM0100	1STQ007048A0000	1/4
No.8 plinth angle pieces H=100mm pre-assembled*	200		PPAM0200	1STQ007207A0000	1/4

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

#### Plinth flanges

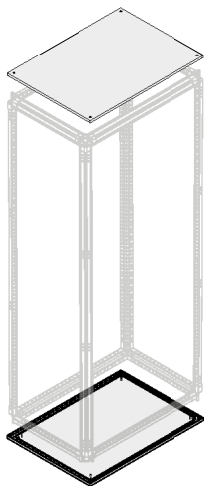
Side and front/rear plinth flanges H=100mm RAL 7012.



Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
<b>Front/rear plinth flanges</b>					
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
<b>Side plinth flanges</b>					
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



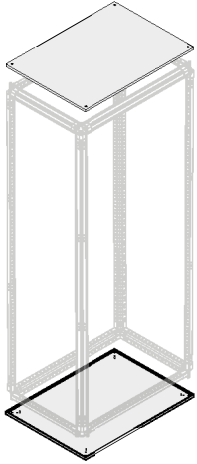
#### Blind Top/Bottom IP65 – Pickled sheet steel

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)		Type	Order code	Pkg/ No. pcs
	W	D			
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

## Dedicated solution

### CombiLine-M - Order codes



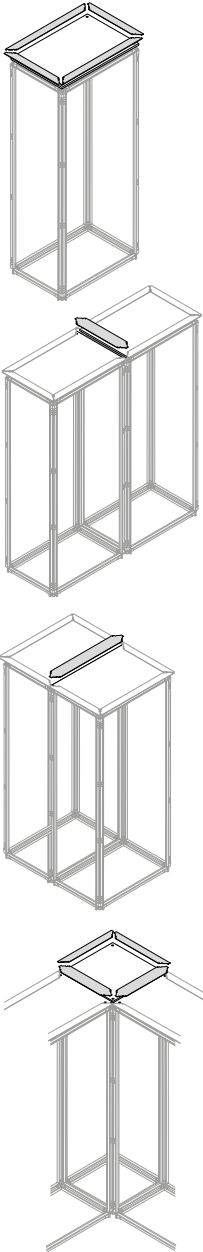
#### Blind Top/Bottom IP30, IP40 – Pickled sheet steel

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)		Type	Order code	Pkg/ No. pcs
	W	D			
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



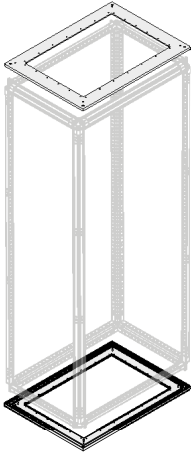
**Top sealing kit IP31/IP41**  
Profiles for IP31/IP41 for top.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
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



## Dedicated solution

### CombiLine-M - Order codes



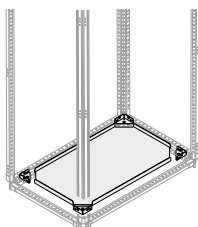
#### Open Top/Bottom

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)		Type	Order code	Pkg/ No. pcs
	W	D			
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

## Dedicated solution

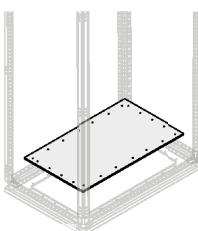
### CombiLine-M - Order codes



#### 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)		Type	Order code	Pkg/ No. pcs
	W	D			
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



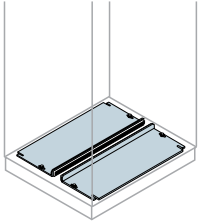
#### Fixed incoming cable flange

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)		Type	Order code	Pkg/ No. pcs
	W	D			
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	PFCF3020	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

## 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.

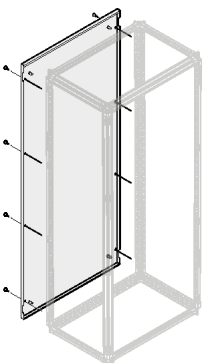
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
No.2 sliding flanges	500	500	PFCS5050	1STQ007702A0000	1/2
No.2 sliding flanges	500	700	PFCS5070	1STQ007703A0000	1/2
No.2 sliding flanges	500	900	PFCS5090	1STQ001293B0000	1/2
No.2 sliding flanges	750	500	PFCS7550	1STQ007709A0000	1/2
No.2 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)		Type	Order code	Pkg/ No. pcs
	H	W			
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



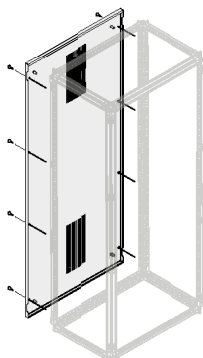
#### External blind rear panel IP40

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)		Type	Order code	Pkg/ No. pcs	
	H	W				
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

## Dedicated solution

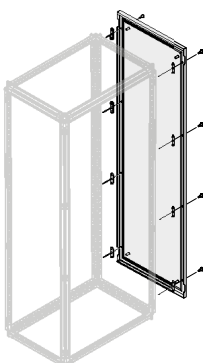
### CombiLine-M - Order codes



#### 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.

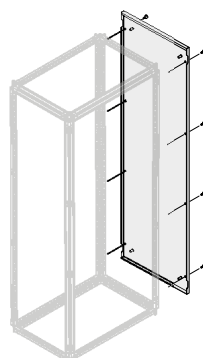
Description	No. Vented grates	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
		H	W			
Vented rear panel IP30	2	1800	750	PPEA1875	1STQ007635A0000	1/1
Vented rear panel IP30/31 with gasket	right 6	1800	1250	PPRA1820	1STQ007639A0000	1/1
	left 6	1800	1250	PPLA1820	1STQ007640A0000	1/1
Vented rear panel IP30	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)		Type	Order code	Pkg/ No. pcs
	H	D			
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



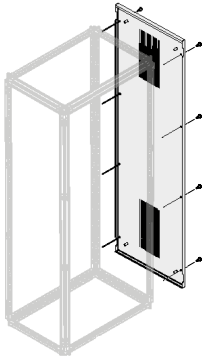
#### External blind side panel IP40

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)		Type	Order code	Pkg/ No. pcs
	H	D			
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



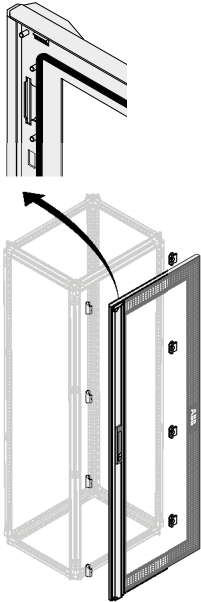
#### External vented rear panel IP30

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)		Type	Order code	Pkg/ No. pcs
		H	D			
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

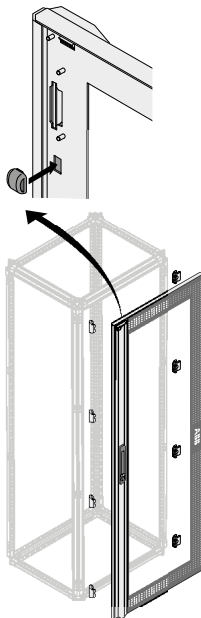
### CombiLine-M - Order codes



#### 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)		Type	Order code	Pkg/No. pcs
	H	W			
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



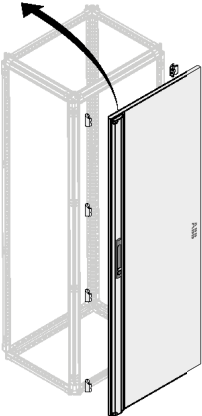
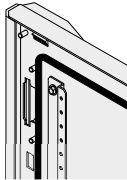
#### Glass door without gasket

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)		Type	Order code	Pkg/No. pcs
	H	W			
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

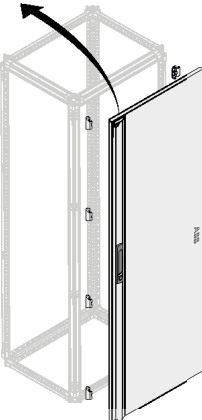
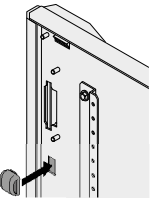
### CombiLine-M - Order codes



#### 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)		Type	Order code	Pkg/ No. pcs
	H	W			
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



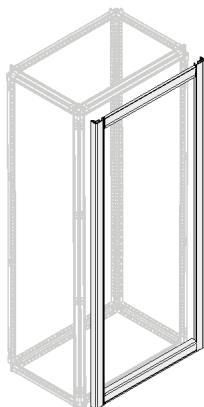
#### Blind door IP40 without gasket

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)		Type	Order code	Pkg/ No. pcs
	H	W			
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

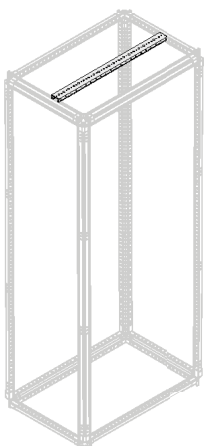
### CombiLine-M - Order codes



#### 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)		Type	Order code	Pkg/ No. pcs
	H	W			
<b>Finishing profiles vertical structure and external cable compartment</b>					
No.2 vertical profiles IP30	1800		PPFV1800	1STQ008059A0000	1/2
No.2 vertical profiles IP30	2000		PPFV2000	1STQ008060A0000	1/2
<b>Finishing profile vertical internal cable compartment</b>					
No.1 profile vertical IP30	1800		PPCV1800	1STQ009294A0000	1/1
No.1 profile vertical IP30	2000		PPCV2000	1STQ009295A0000	1/1
<b>Finishing profiles horizontal structure and external cable compartment</b>					
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)		Type	Order code	Pkg/ No. pcs
	W				
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

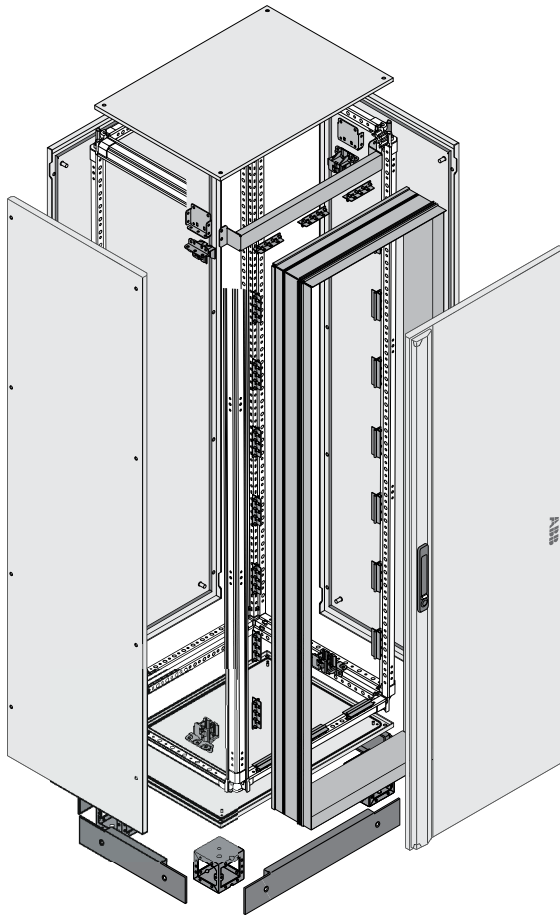


## Dedicated solution

### 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

# 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.

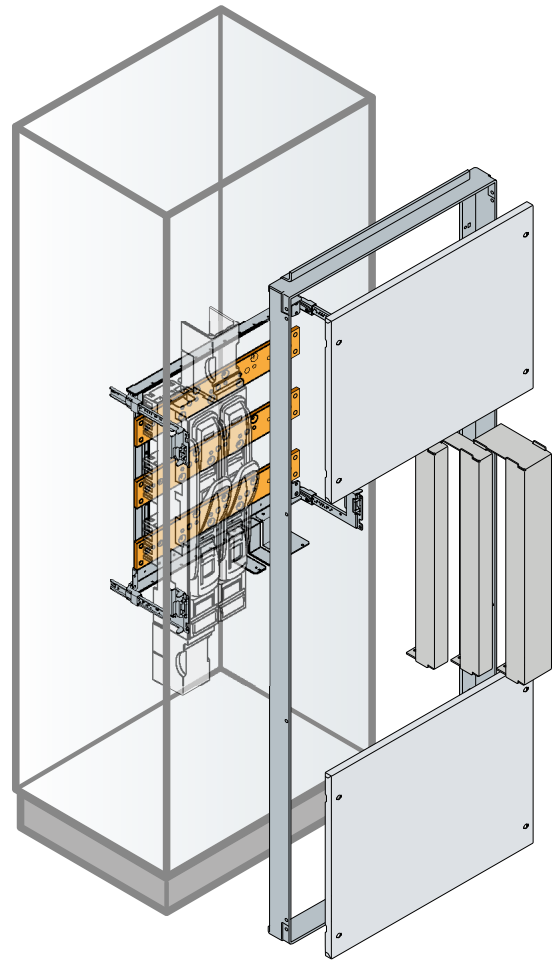
With InLine II kits is possible to mount two types of models: ZLBM00/ZHBM whose width is 50mm and ZLBM123/ZHBM123 whose width it's 100mm.

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

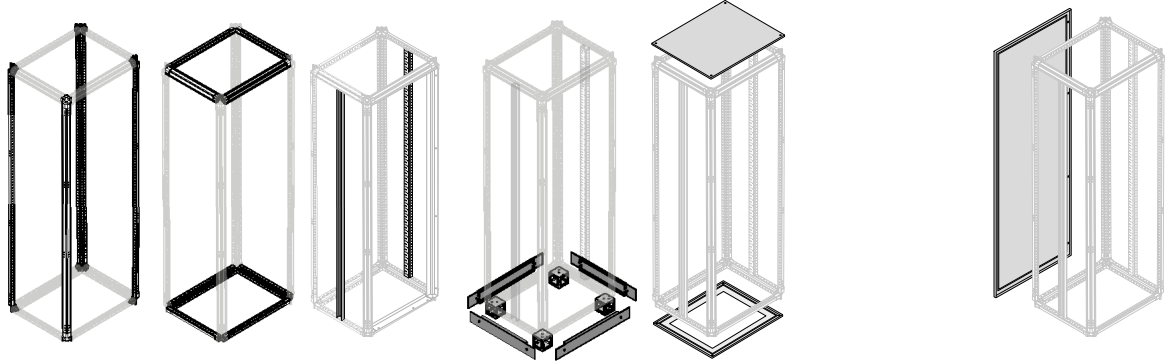
Features		InLine II ZLBM/ZHBM
Rated operational voltage Ue	[V]	400 / 500 / 690
Rated operational current Ie	[A]	125...630





# 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 <sup>(2)</sup>		Without plinth	Blind		
Height 1800mm	Height 1913mm	Galvanized sheet metal *		Front/Rear		Sides		Angle pieces	Front/Rear	Sides	IP65	IP30 <sup>(1)</sup> IP40 <sup>(1)</sup>	IP65	IP40 <sup>(3)</sup>	IP65	IP40 <sup>(1)</sup>
W (mm)	D (mm)	W (mm)	D (mm)	In≤4000A	Front/Rear	Sides										
600	500	700	616	PUPM1800	PCFM0600	PCFM0500	PUKI1800	PPAM0100	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	PPAM0100	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	PPAM0100	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 <sup>(2)</sup>		Without plinth	Blind		
Height 1800mm	Height 1913mm	Galvanized sheet metal *		Front/Rear		Sides		Angle pieces	Front/Rear	Sides	IP65	IP30 <sup>(1)</sup> IP40 <sup>(1)</sup>	IP65	IP40 <sup>(3)</sup>	IP65	IP40 <sup>(1)</sup>
W (mm)	D (mm)	W (mm)	D (mm)	In≤4000A	Front/Rear	Sides										
600	500	700	616	PUPM2000	PCFM0600	PCFM0500	PUKI2000	PPAM0100	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	PPAM0100	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	PPAM0100	PPFM1060	PPFM1050	PTBB1056	PTBB1050	PTBO1050	PBWP1050	PPEB2016	PPEB2010
	700		816			PCFM0700				PPFM1070	PTBB1076	PTBB1070	PTBO1070	PBWP1070		
	900		1016			PCFM0900				PPFM1090	PTBB1096	PTBB1090	PTBO1090	PBWP1090		

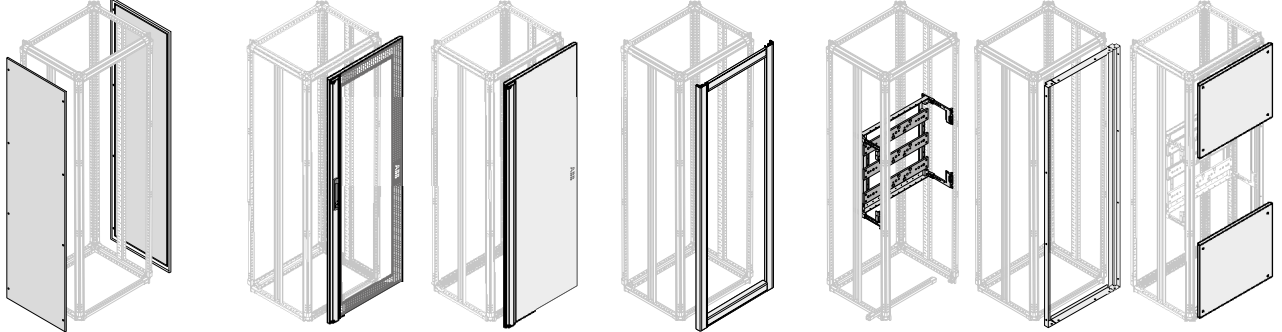
Also available in stainless steel, see page 2/8.

Consult page 2/12 and 7/2 for selection of the protection class.

<sup>(1)</sup> In order to reach IPX1 protection degree it is necessary to add the proper top sealing kit, page 2/23.

<sup>(2)</sup> Use the dedicated incoming cable flanges to obtain protection class IP65.

<sup>(3)</sup> 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 <sup>(1)</sup>	IP65	IP40 <sup>(1)</sup>	IP30 <sup>(1)</sup>	IP65	IP30 <sup>(1)</sup> P40 <sup>(1)</sup>	IP65	IP30 <sup>(1)</sup> P40 <sup>(1)</sup>	Vertical profile	Horizontal profile	InLine II kit	Fixed frame	Front panels
PPEA1860	PPEB1856 PPEB1876 PPEB1896	PPEB1850 PPEB1870 PPEB1890	PPEA1850 PPEA1870 PPEA1890	PDLG1866	PDLG1860	PDLB1866	PDLB1860	PPFV1800	PPFH0600	PKNL1260	PFNL1860	No.2 PPNL3060
PPEA1880	PPEB1856 PPEB1876 PPEB1896	PPEB1850 PPEB1870 PPEB1890	PPEA1850 PPEA1870 PPEA1890	PDLG1886	PDLG1880	PDLB1886	PDLB1880	PPFV1800	PPFH0800	PKNL1280	PFNL1880	No.2 PPNL3080
PPEA1810	PPEB1856 PPEB1876 PPEB1896	PPEB1850 PPEB1870 PPEB1890	PPEA1850 PPEA1870 PPEA1890	PDLG1816	PDLG1810	PDLB1816	PDLB1810	PPFV1800	PPFH1000	PKNL1210	PFNL1810	No.2 PPNL3010

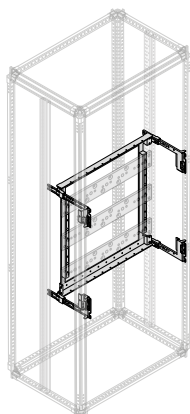
INLINE II

Finishing profiles IP30

Side panel			Glass door 24/36/48 mod. DIN		Blind door 24/36/48 mod. DIN							
Vented	Blind	Vented										
IP30 <sup>(1)</sup>	IP65	IP40 <sup>(1)</sup>	IP30 <sup>(1)</sup>	IP65	IP30 <sup>(1)</sup> P40 <sup>(1)</sup>	IP65	IP30 <sup>(1)</sup> P40 <sup>(1)</sup>	Vertical profile	Horizontal profile	InLine II kit	Fixed frame	Front panels
PPEA2060	PPEB1856 PPEB1876 PPEB1896	PPEB1850 PPEB1870 PPEB1890	PPEA1850 PPEA1870 PPEA1890	PDLG2066	PDLG2060	PDLB2066	PDLB2060	PPFV2000	PPFH0600	PKNL1260	PFNL2060	No.2 PPNL4060
PPEA2080	PPEB1856 PPEB1876 PPEB1896	PPEB1850 PPEB1870 PPEB1890	PPEA1850 PPEA1870 PPEA1890	PDLG2086	PDLG2080	PDLB2086	PDLB2080	PPFV2000	PPFH0800	PKNL1280	PFNL2080	No.2 PPNL4080
PPEA2010	PPEB1856 PPEB1876 PPEB1896	PPEB1850 PPEB1870 PPEB1890	PPEA1850 PPEA1870 PPEA1890	PDLG2016	PDLG2010	PDLB2016	PDLB2010	PPFV2000	PPFH1000	PKNL1210	PFNL2010	No.2 PPNL4010

# Dedicated solution

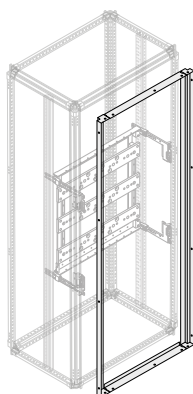
## InLine II - Order codes



### InLine II mounting kit

Kit for the fixing of InLine II fuseholders

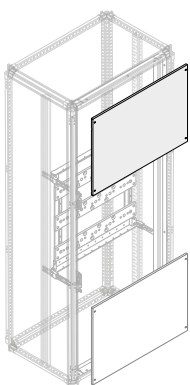
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
InLine mounting kit + front panel	1200	600	PKNL1260	1STQ009823A0000	1/1
InLine mounting kit + front panel	1200	800	PKNL1280	1STQ009847A0000	1/1
InLine mounting kit + front panel	1200	1000	PKNL1210	1STQ009863A0000	1/1



### 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)		Type	Order code	Pkg/ No. pcs
	H	W			
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

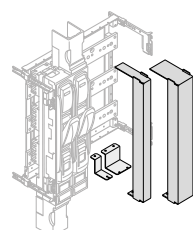


### Flat blind panels for InLine II fixed frame

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)		Type	Order code	Pkg/ No. pcs
	H	W			
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.



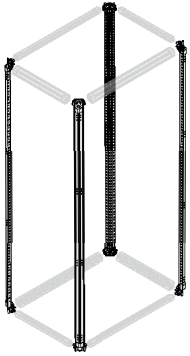
### InLine II dummy modules

Dummy modules InLine II to cover free space in the enclosure and guarantee touch protection.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
InLine vertical compensator	50		PCNL0050	1STQ009931A0000	1/1
InLine vertical compensator	100		PCNL0100	1STQ009930A0000	1/1

## 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  $In \leq 4000A$ .

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H				
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.

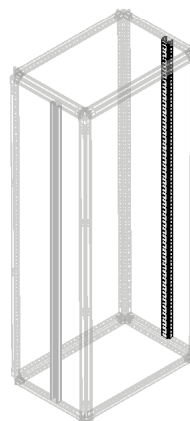


#### Structure crosspieces – Galvanized sheet metal \*

Depth and width crosspieces for structures in galvanized sheet metal. For applications with  $\leq 4000A$ .

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
<b>Width crosspieces</b>					
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
<b>Depth crosspieces</b>					
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

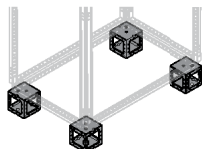
Intermediate depth upright for assembling kits for Tmax and Emax 2. The intermediate uprights are not required for assembling fixed Tmax XT1, XT2, XT3, XT4, T4, T5, T6 and XT1, XT3 with Direct Rotary Handle only in nonsegregated structures. Order 2 uprights for the kits.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H				
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

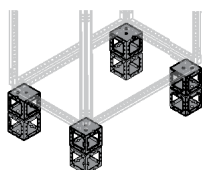
PPAM0100



#### Universal angle pieces for plinths in galvanized sheet metal

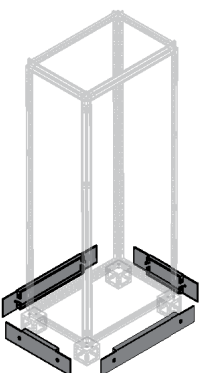
Not pre-assembled to the structure. New angle piece with high mechanical strength. Can be fixed from the outside and from the inside of the structure even at a later date. Equipped with anti-rotation system and bottom that can be transported with a transpallet.

PPAM0200



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

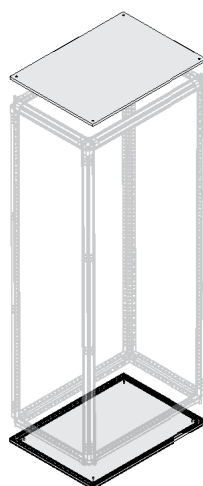
\*Order no. 2 pieces of H=100mm covering flange kits to complete the H=200mm plinth.



#### Plinth flanges

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

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
<b>Front/rear plinth flanges</b>					
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
<b>Side plinth flanges</b>					
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

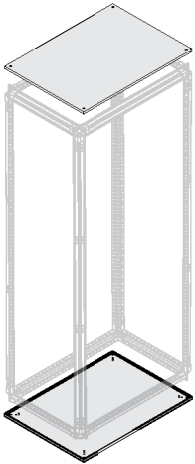
Pickled sheet steel with IP65 gasket. The article comprises one single component that can be used as either a top or bottom. In order to purchase both the top and the bottom, please order two quantities of the same code or two different top/bottom codes according to the desired design of the structure.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

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
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

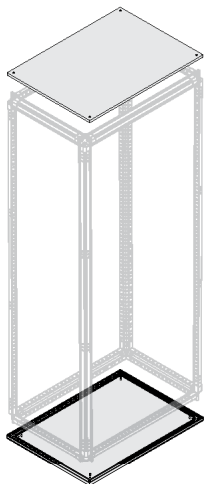
### InLine II - Order codes



#### 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)		Type	Order code	Pkg/No. pcs
	W	D			
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



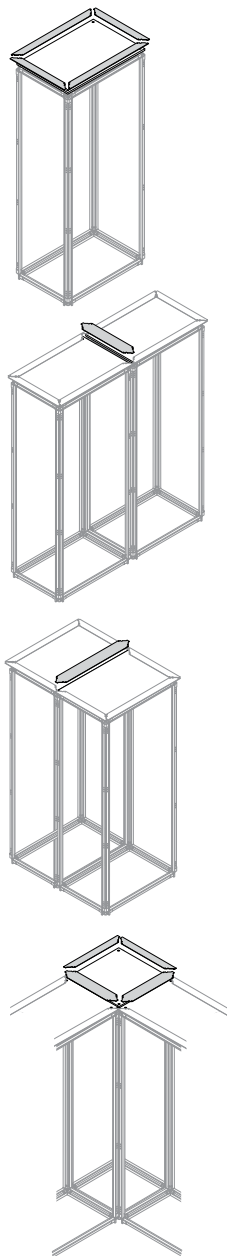
#### Blind Top/Bottom IP65 – Pickled sheet steel

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)		Type	Order code	Pkg/No. pcs
	W	D			
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

## Dedicated solution

### InLine II - Order codes



#### Top sealing kit IP31/IP41 \*

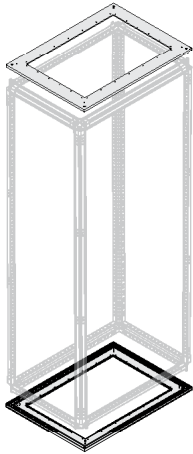
Profiles for IP31/IP41 for top.

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
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.

## Dedicated solution

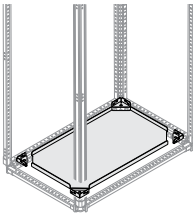
### InLine II - Order codes



#### 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.

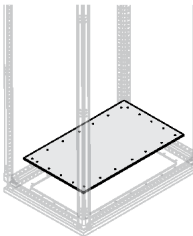
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
Open Top/Bottom	600	500	PTBO6050	1STQ007149A0000	1/1
Open Top/Bottom	600	700	PTBO6070	1STQ007150A0000	1/1
Open Top/Bottom	600	900	PTBO6090	1STQ007151A0000	1/1
Open Top/Bottom	800	500	PTBO8050	1STQ007157A0000	1/1
Open Top/Bottom	800	700	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)		Type	Order code	Pkg/ No. pcs
	W	D			
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



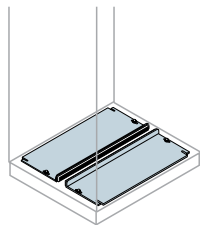
#### Fixed incoming cable flange

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)		Type	Order code	Pkg/ No. pcs
	W	D			
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

## Dedicated solution

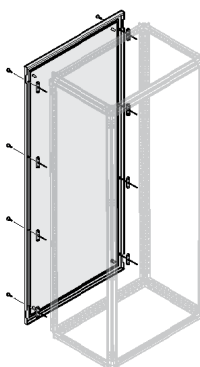
### InLine II - Order codes



#### 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.

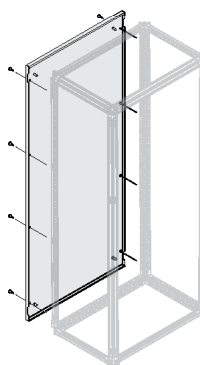
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
No.2 sliding flanges	600	500	PFCS6050	1STQ007705A0000	1/2
No.2 sliding flanges	600	700	PFCS6070	1STQ007706A0000	1/2
No.2 sliding flanges	600	900	PFCS6090	1STQ007707A0000	1/2
No.2 sliding flanges	800	500	PFCS8050	1STQ007712A0000	1/2
No.2 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)		Type	Order code	Pkg/ No. pcs
	H	W			
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



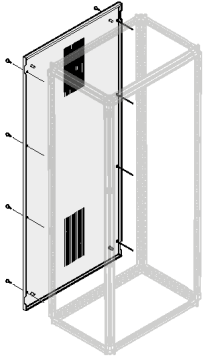
#### External blind rear panel IP40

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)		Type	Order code	Pkg/ No. pcs
	H	W			
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

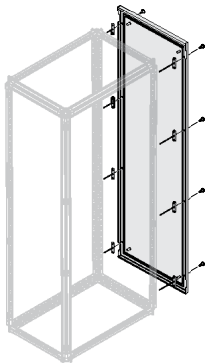
### InLine II - Order codes



#### 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.

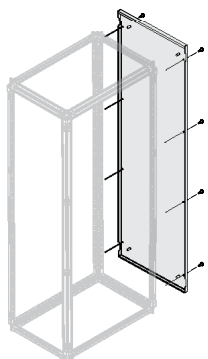
Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
Vented rear panel IP30	1800	600	PPEA1860	1STQ007633A0000	1/1
Vented rear panel IP30	1800	800	PPEA1880	1STQ007636A0000	1/1
Vented rear panel IP30	1800	1000	PPEA1810	1STQ007638A0000	1/1
Vented rear panel IP30	2000	600	PPEA2060	1STQ007644A0000	1/1
Vented rear panel IP30	2000	800	PPEA2080	1STQ007646A0000	1/1
Vented rear panel IP30	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)		Type	Order code	Pkg/ No. pcs
	H	D			
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



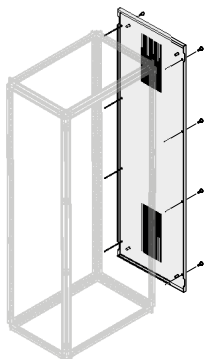
#### External blind side panel IP40

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)		Type	Order code	Pkg/ No. pcs
	H	D			
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

## Dedicated solution

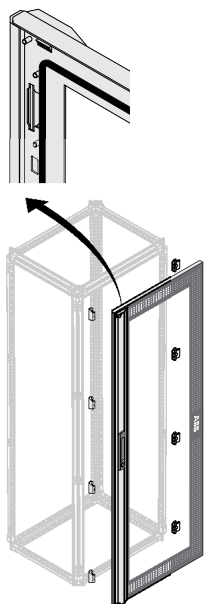
### InLine II - Order codes



#### 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	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	D			
Vented side panel IP30	1800	500	PPEA1850	1STQ007632A0000	1/1
Vented side panel IP30	1800	700	PPEA1870	1STQ007634A0000	1/1
Vented side panel IP30	1800	900	PPEA1890	1STQ007637A0000	1/1
Vented side panel IP30	2000	500	PPEA2050	1STQ007643A0000	1/1
Vented side panel IP30	2000	700	PPEA2070	1STQ007645A0000	1/1
Vented side panel IP30	2000	900	PPEA2090	1STQ007647A0000	1/1



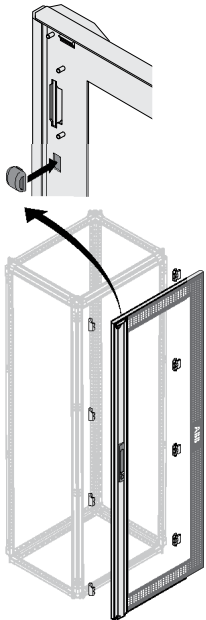
#### Glass door IP65

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)		Type	Order code	Pkg/ No. pcs
		H	W			
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

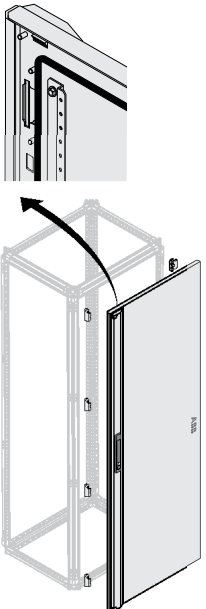
### InLine II - Order codes



#### 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)		Type	Order code	Pkg/ No. pcs
		H	W			
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



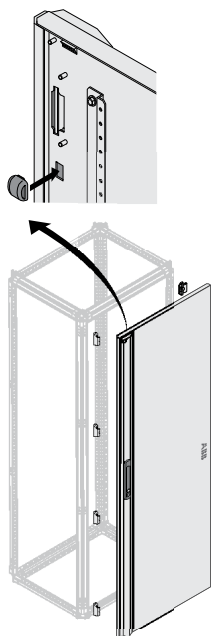
#### Blind door IP65

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)		Type	Order code	Pkg/ No. pcs
		H	W			
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

## Dedicated solution

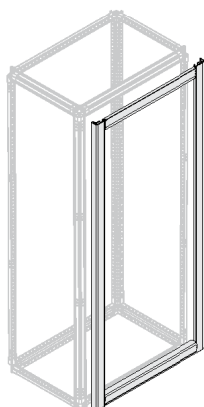
### InLine II - Order codes



#### 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)		Type	Order code	Pkg/ No. pcs
		H	W			
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)		Type	Order code	Pkg/ No. pcs
	H	W			
<b>Finishing profiles vertical structure and external cable compartment</b>					
No.2 vertical profiles IP30	1800		PPFV1800	1STQ008059A0000	1/2
No.2 vertical profiles IP30	2000		PPFV2000	1STQ008060A0000	1/2
<b>Finishing profile vertical internal cable compartment</b>					
No.1 profile vertical IP30	1800		PPCV1800	1STQ009294A0000	1/1
No.1 profile vertical IP30	2000		PPCV2000	1STQ009295A0000	1/1
<b>Finishing profiles horizontal structure and external cable compartment</b>					
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

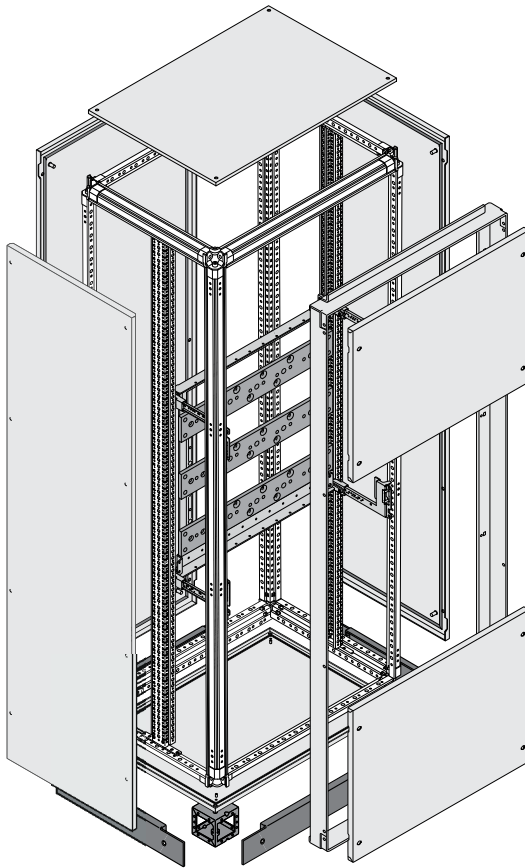


## Dedicated solution

### 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

# Dedicated solution

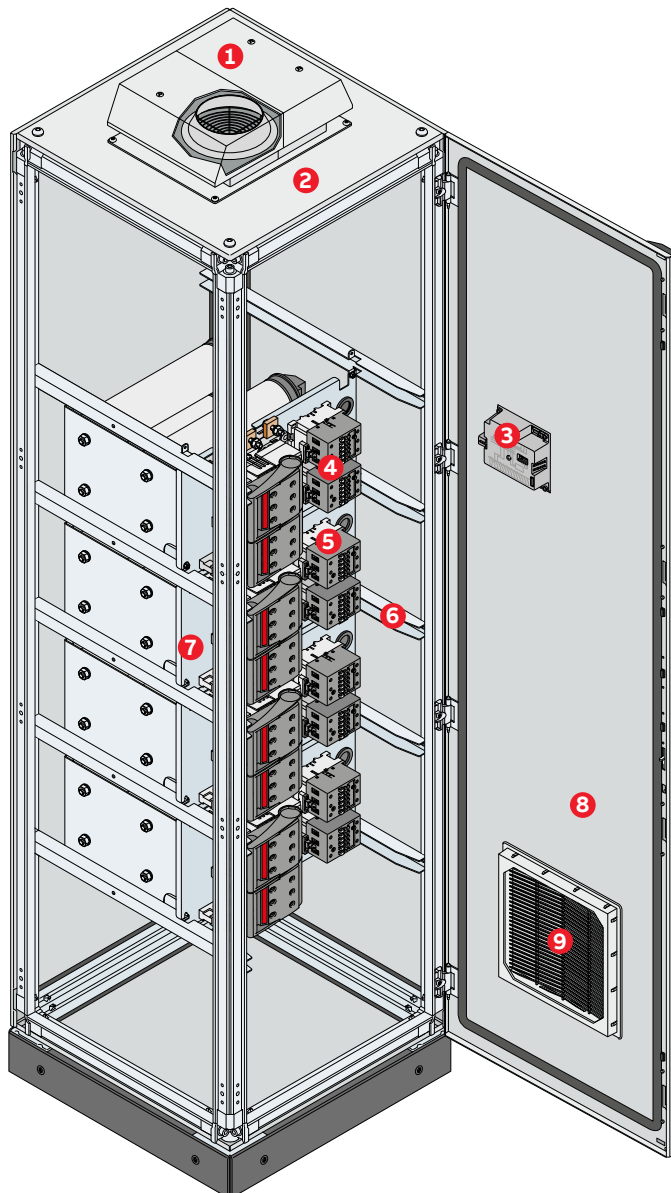
## Capacitor bank application

### 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 shelf, capacitors, detuning reactor if specified, UA contactor and fuse protection device XLP00 EasyLine.

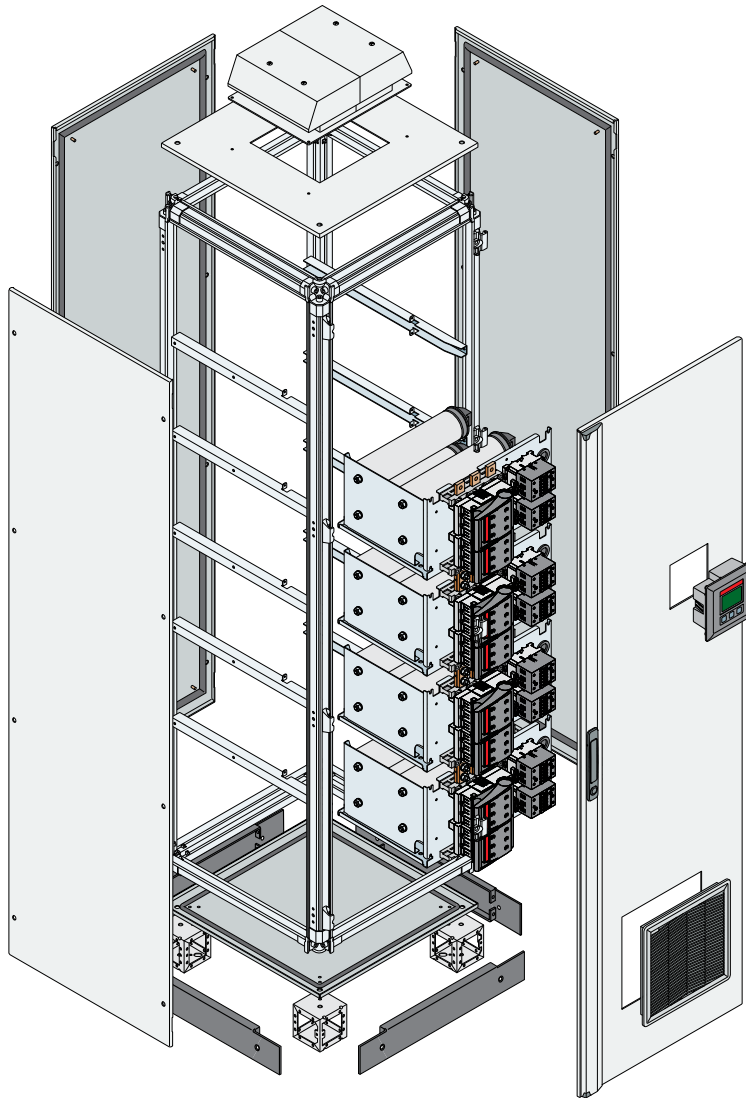
PMOD equipped with front insulators/busbar supports of 60mm inter-axial distance between the phases and with the maximum holding capacity of 30x10mm bar. It is mandatory to add supporting rails to fix the PMOD unit.



- 1 EN0480K-EN0482K forced ventilation outlet. Page 6-41
- 2 PTB050.. 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

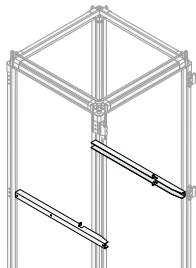
\*suitable for installation when there are less than 15% of nonlinear loads and no resonance

# Dedicated solution

## Capacitor bank application - Order codes

### Capacitor mounting set and System pro E power

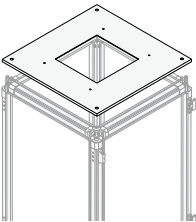
Compatible with the 500mm width of the structure. Can be combined with the horizontal main busbar system and depth more than or equal 500mm. The design is feasible with the any protection degree parts of the System, from IP40 to IP65 (the cubicle will be de-rated to IP23 or IP54).



#### Fixing rails for PMOD capacitor module

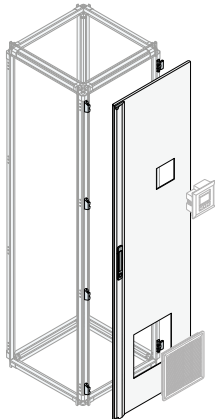
Mandatory to chose one pack for one module.

Description	Type	Order code	Pkg/ No. pcs
N.2 support rails for fixing capacitor bank drawer	PFRJ0500	1STQ005045B0000	1/2



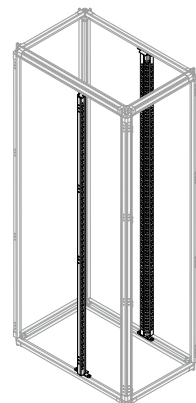
#### Open top prepared for the "mushroom" air outlet installation, forced ventilation

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	W	D			
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)		Type	Order code	Pkg/ No. pcs
	H	D			
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



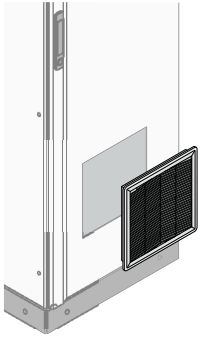
#### Intermediate uprights

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)	Type	Order code	Pkg/ No. pcs
	H			
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

## Dedicated solution

### Capacitor bank application - Order codes

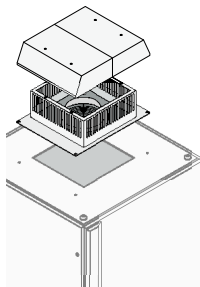


#### Accessories for the internal ventilation and hitting dissipation

##### 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/m<sup>2</sup>), 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).

Description	Dimensions (mm)			Type	Order code	Pkg/ No. pcs
	W	H				
IP21/54 natural ventilation inlet	325	325		EN0325K	-	1/1



##### Forced ventilation outlet "mushroom" IP23 to be placed on the roof

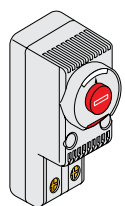
RAL 7035 colour, complete with self-adhesive gasket; consumption 58/78W, capacity 550/590m<sup>3</sup>/h. Operating temperature from -20 °C to + 60 °C, noise 68/71dB(A).

Description	Dimensions (mm)			Type	Order code	Pkg/ No. pcs
	W	D	H			
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.

Description	Dimensions (mm)			Type	Order code	Pkg/ No. pcs
	W	D	H			
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



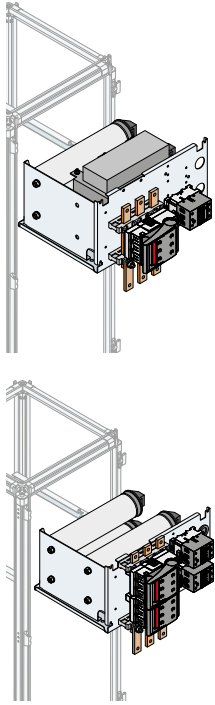
##### IP20 Thermostat, NO - cooling

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.

Description	Dimensions (mm)			Type	Order code	Pkg/ No. pcs
	W	D	H			
NO ventilation thermostat	29	45	68	EN0101K	-	1/1

## 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) <sup>(1)</sup> *	Detuning Reactor (%) <sup>(2)</sup>	Rated Power Qc (kvar) <sup>(4)</sup>	Net Output Power Q (kvar) <sup>(3)</sup>	Comments	Order code	Pkg/No. pcs
<b>50 Hz Network</b>						
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

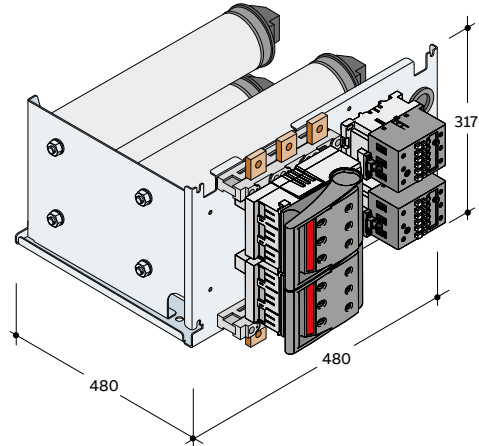
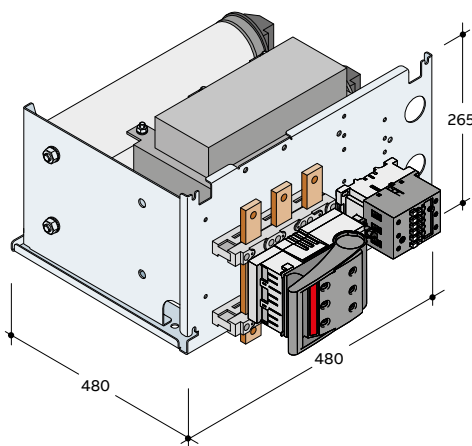
QCap power module offers a number of exceptional features like: high voltage withstand capability, excellent peak current handling capacity, high capacitance stability, long life even under high electrical stress, low losses, exceptional reliability and safety. More ratings and voltages available, please contact us.

<sup>(1)</sup> U network is the nominal network voltage.

<sup>(2)</sup> Value of the reactor (if existing) connected in series with the capacitor.

<sup>(3)</sup> 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.

<sup>(4)</sup> Qc is the reactive power directly at capacitor terminals under nominal voltage (note: Qc ≥ Q due to reactor impact).



## 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  $\cos \phi$  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:  $\cos \phi$ , 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  $\cos \phi$  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

## 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

<b>Working ambient temperature</b>	-5°C (23°F)/+40°C (104°F) according to EN 61921
<b>Connection</b>	Three-phase, balanced network
<b>Protection</b>	IP23/IP54, protected against direct and accidental contact
<b>Execution</b>	Indoor
<b>Ventilation</b>	Forced air cooling
<b>Power factor setting</b>	From 0.7 inductive to 0.7 capacitive
<b>Starting current setting (C/k)</b>	From 0.01A to 3A for the RVC controller From 0.01A to 5A for the RVT controller
<b>Operation</b>	During operation, RVC (RVT) controller displays: <ul style="list-style-type: none"> <li>- the number of active outputs</li> <li>- the inductive or capacitive power factor</li> <li>- the alarm conditions; target cos j, over/under voltage, THDV, over temperature</li> <li>- the demand for switching on/off a capacitor step</li> </ul>
<b>Losses at 400V 50 Hz</b>	Without reactors: less than 1.5 Watt/kvar With reactors: less than 5.5 Watt/kvar
<b>Capacitors QCap type</b>	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)
<b>Reactors</b>	Dry type resin embedded according to IEC 289, IEC 76 Maximum harmonic pollution: 8% THDV with specific spectrum
<b>Standards</b>	IEC 61921, IEC 61439-1&2 IEC 60831-1&2 (capacitors) CE marked



## Dedicated solution

### Capacitor bank - Technical specification

#### Technical characteristics of the components

##### QCap capacitor technical specification

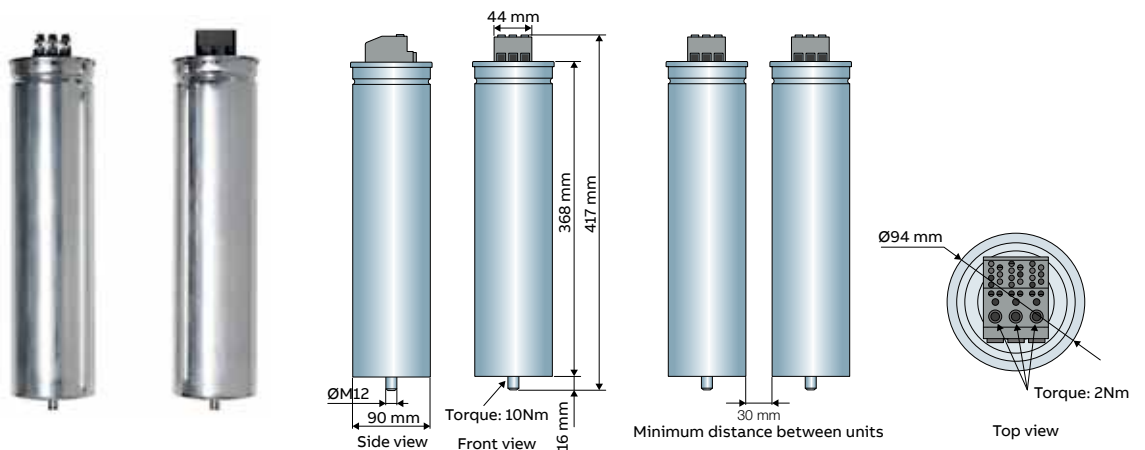
QCap is a cylindrical type capacitor. It is based on ABB's latest technologies and developments and is a result of more than a century's knowledge on electrical engineering and over 70 years of expertise on capacitor technologies.

<b>Network voltage range</b>	From 220 to 690 V.
<b>Frequency</b>	50 and 60 Hz
<b>Connection</b>	Three-phase
<b>Net output power</b>	From 2.5 to 30 kvar
<b>Tolerance on capacitance</b>	2.5-12.5 kvar (dielectric only) 15-30 kvar: 0 % / + 10%
<b>Losses</b>	< 0.2 Watt/kvar (dielectric only) < 0.35 Watt/kvar (typical without discharge resistor) < 0.5 Watt/kvar (including discharge resistor)
<b>Discharge resistor</b>	Include. Discharge to 50 V in 1 minute
<b>Maximum permissible current</b>	1.3 x I <sub>n</sub> for continuous operation
<b>Tolerance on voltage</b>	1.1 x U <sub>n</sub> for maximum 8 hours in every 24 hours (according to IEC 60831)
<b>Case material</b>	Recyclable aluminium
<b>Color</b>	Raw aluminium
<b>Fixing</b>	1 stud (M12). Recommended torque: 10 Nm
<b>Dimensions (DxH)</b>	90x417 mm
<b>Weight</b>	3 Kg
<b>Terminals</b>	Cage screws. Recommended torque: 2 Nm
<b>Minimum distance above unit</b>	20 mm
<b>Minimum distance between capacitors</b>	30 mm
<b>Earth</b>	Earth connection on the enclosure fixation
<b>Execution</b>	Indoor use only
<b>Installation</b>	Horizontal or vertical*
<b>Temperature range</b>	-25°C / +55°C (class D according to IEC 60831)
<b>Altitude</b>	Up to 2000 m without derating. For higher altitudes consult ABB.
<b>Protection degree</b>	IP20
<b>Standards</b>	CE and CSA (with US indicator complying 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

<b>Measuring system</b>	Micro-processor system for balanced three-phase networks or single-phase networks.
<b>Operating voltage</b>	100V to 440V.
<b>Voltage tolerance</b>	±10% on indicated operating voltages.
<b>Frequency range</b>	50 or 60 Hz ±5% (automatic adjustments to network frequency).
<b>Measuring circuit terminals (L2, L3 and k, I)</b>	CAT III rated.
<b>Current Input</b>	1A or 5A (RSM)
<b>Current Input impedance</b>	<0.1 Ohm (recommended CT class 1.0, 10 VA min).
<b>Consumption of the controller</b>	8 VA max.
<b>Output contact rating</b>	Max. continuous current: 1.5A; Max. peak current: 5A. Max. voltage: 440 Vac. Terminal A is rated for a continuous current of 16A.
<b>Alarm contact</b>	Normally open contact. Max. continuous current: 5A. Rated/max. breaking voltage: 250Vac/440Vac.
<b>Power factor setting</b>	From 0.7 inductive to 0.7 capacitive.
<b>Starting current setting (C/k)</b>	0.01 to 3A. Automatic measurement of C/k.
<b>Number of outputs</b>	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
<b>Switching time between step</b>	Programmable from 1s to 999s (independent of reactive load).
<b>Switching sequences</b>	Used defined
<b>Mode of switching</b>	The mode of switching for all the programmable switching sequences is integral, direct, circular or linear.
<b>Saving-function</b>	All programmed parameters and modes are saved in a non-volatile memory.
<b>Power outage release</b>	Quick automatic disconnection in less than 20ms [50Hz] in case of power outage or voltage drop.
<b>Power outage reset delay time</b>	40 s.
<b>Operating temperature</b>	-10° C to 70° C.
<b>Storage temperature</b>	-30° C to 85° C.
<b>Mounting position</b>	Vertical panel mounting.
<b>Dimensions</b>	144x144x43 mm (hwxwd)
<b>Cut-out dimensions</b>	138x138 mm(hxw)
<b>Weight</b>	0.4 kg (unpacked)
<b>Connector</b>	Spring clamp terminal block
<b>Front plate protection</b>	IP43
<b>Relative humidity</b>	Maximum 95%, non condensing
<b>Other features</b>	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.
<b>Standards</b>	CE marked.

## Dedicated solution

### Capacitor bank - Technical specification

#### RVT power factor controller

<b>Measuring system</b>	Micro-processor system for balanced three-phase/single-phase networks and unbalanced Individual phase power factor control is available.
<b>Supply voltage</b>	From 100Vac up to 460 Vac.
<b>Consumption</b>	15 VA max.
<b>Connection type for measuring circuit and power supply</b>	Phase-phase or phase-neutral for balanced and unbalanced network.
<b>Voltage tolerance</b>	±10% on indicated supply voltages.
<b>Measurement category (according to IEC 61010-1)</b>	CAT III.
<b>Voltage measurement</b>	Up to 690Vac or higher with voltage transformer.
<b>Accuracy</b>	±1% full scale.
<b>Frequency range</b>	45 to 65 Hz (automatic adjustments to network frequency).
<b>Current input</b>	5A or 1A (RMS) (class 1 C.T.).
<b>Current input impedance</b>	<0.1 Ohm.
<b>Power outage release</b>	Automatic disconnection of all capacitors in case of a power outage longer than 20ms.
<b>Number of outputs</b>	RVT6/RVT12 Base Model: programmable up to 6 or 12 outputs. RVT12-3P Three Phase Model: programmable up to 12 outputs.
<b>Output contact rating</b>	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).
<b>Alarm contact rating (voltage free contact)</b>	One normally closed contact and one normally open contact. Max. continuous current: 1.5A (ac). Rated voltage: 250Vac (max. breaking voltage: 440Vac).
<b>Fan contact rating (voltage free contact)</b>	Normally open contact. Max. continuous current: 1.5A (ac). Rated voltage: 250Vac (max. breaking voltage: 440Vac).
<b>Power factor setting</b>	From 0.7 inductive to 0.7 capacitive.
<b>Starting current setting (C/k)</b>	0.01 to 5A. Automatic measurement of C/k.
<b>Switching sequences</b>	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.
<b>Modbus baud rate</b>	300 - 600 - 1200 - 2400 - 4800 - 9600 - 19200 - 38400 – 57600 bps.
<b>CAN connection</b>	Support CAN 2.0B interface (for future use).
<b>USB host connection</b>	For future use.
<b>USB device connection</b>	Available
<b>Temperature probe input connection</b>	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
<b>Step configuration</b>	Automatic, fixed, disabled.
<b>Display</b>	QVGA 320 x 240 pixels colorful touch-screen.
<b>Adjustable display backlighting</b>	Available
<b>Switching time between steps</b>	Programmable from 1s to 18h.

## Dedicated solution

### Capacitor bank - Technical specification

#### RVT power factor controller

<b>Saving-function</b>	All programmed parameters and modes are saved in a non-volatile memory.
<b>Auto adaptation to the connection and phase-rotation of the network</b>	
<b>Auto adaptation to the CT-terminals</b>	
<b>Power Factor correction operation is insensitive to the presence of harmonics.</b>	
<b>Working with passive and regenerative loads (four-quadrant operation).</b>	
<b>Operating temperature</b>	-20° C to 70° C.
<b>Storage temperature</b>	-30° C to 85° C.
<b>Mounting position</b>	Vertical panel mounting.
<b>Dimensions</b>	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)
<b>Weight</b>	650 g (unpacked).
<b>Connector</b>	Cage clamp type (2.5mm <sup>2</sup> single core cable).
<b>Front plate protection</b>	IP 43 (IP54: on request).
<b>Relative humidity</b>	Maximum 95%, non-condensing.
<b>CE and UL marked</b>	

#### 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

## 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%

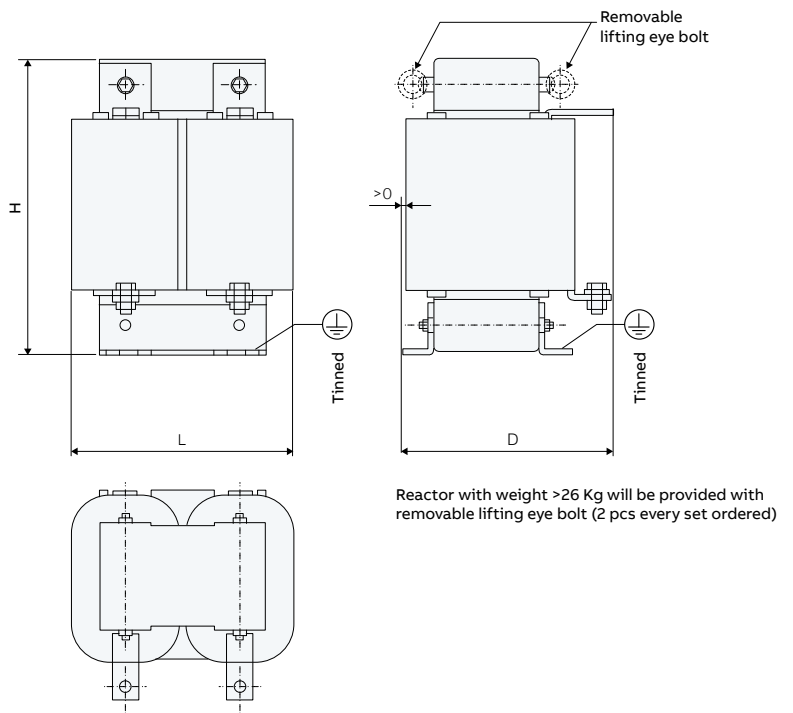
Assuming the network voltage of 1.1 x Un for I1 and the maximum harmonic voltage spectrum as per above (at 1.0xUn)

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.



More ratings and voltages available, please contact us.

400V, 50Hz	Height - H	Length - L	Depth - D
Reactor 25 kvar 7%	205 mm	228 mm	140 mm
Reactor 50 kvar 7%	235 mm	264 mm	155 mm

## 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.

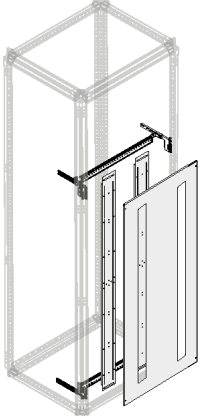
The rated voltage of the PMOD capacitor unit shall be at least equal to the service voltage of the network to which the capacitor is to be connected, account being taken of the influence of the presence of the capacitor itself.

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.

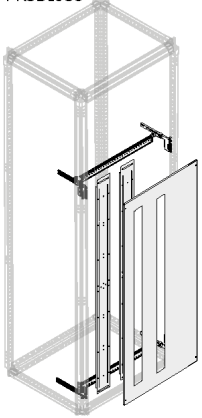
## Dedicated solution

### SmissLine - Order codes

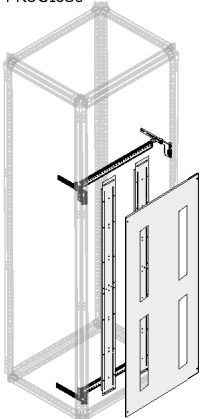
PKSC1660  
PKSC1680



PKSD1680



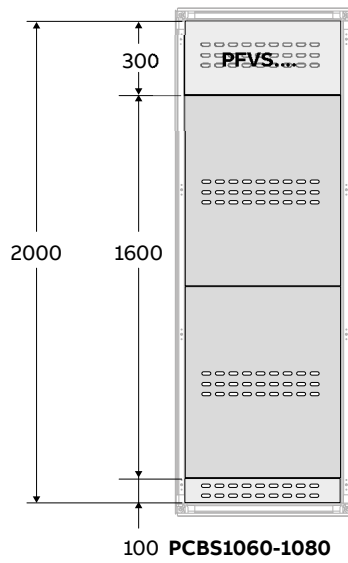
PKUC1680



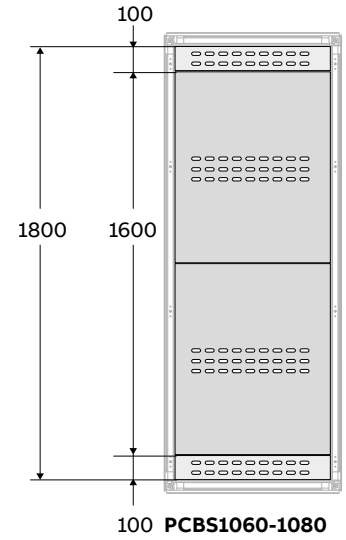
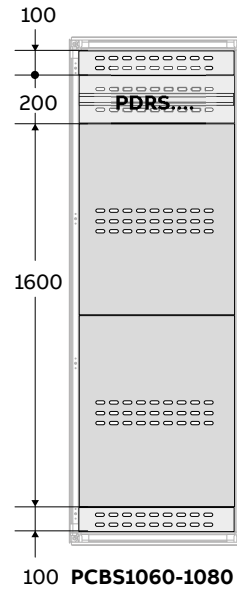
#### SmissLine

Description	Dimensions (mm)		Type	Order code	Pkg/ No. pcs
	H	W			
mounting kit + centred panel for SmissLine	1600	600	PKSC1660	1STQ001247B0000	1/1
mounting kit + centred panel for SmissLine	1600	800	PKSC1680	1STQ001248B0000	1/1
mounting kit + decentred panel for SmissLine	1600	800	PKSD1680	1STQ001249B0000	1/1
mounting kit + centred panel for Unifix H	1600	800	PKUC1680	1STQ001250B0000	1/1
rear segregation for SmissLine/Unifix H	1600	600	PRSU1660	1STQ001331B0000	1/1
rear segregation for SmissLine/Unifix H	1600	800	PRSU1680	1STQ001332B0000	1/1

#### Unifix H



#### Din Rail







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## **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 ( $U \leq 1000$  V a.c. or  $U \leq 1500$  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.

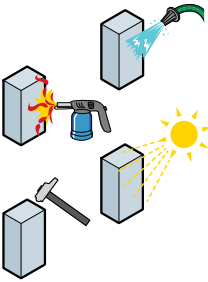
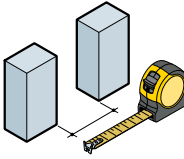
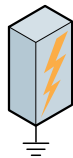

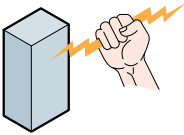
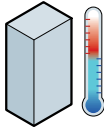
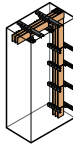
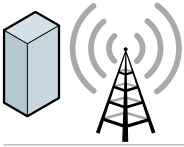
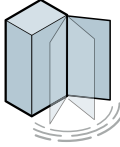
In particular, the Standard admits three different but equivalent methods to verify the compliance of the design with the Standard, namely:

- 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 characteristic 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		Assessment
				Testing	Comparison with a reference design	
	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 and protective circuit	10.5.2	YES	NO	NO
			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).

Besides, in case mounting of the assembly is carried out by others, the Original manufacturer defines and publishes the instructions necessary to produce various assemblies.

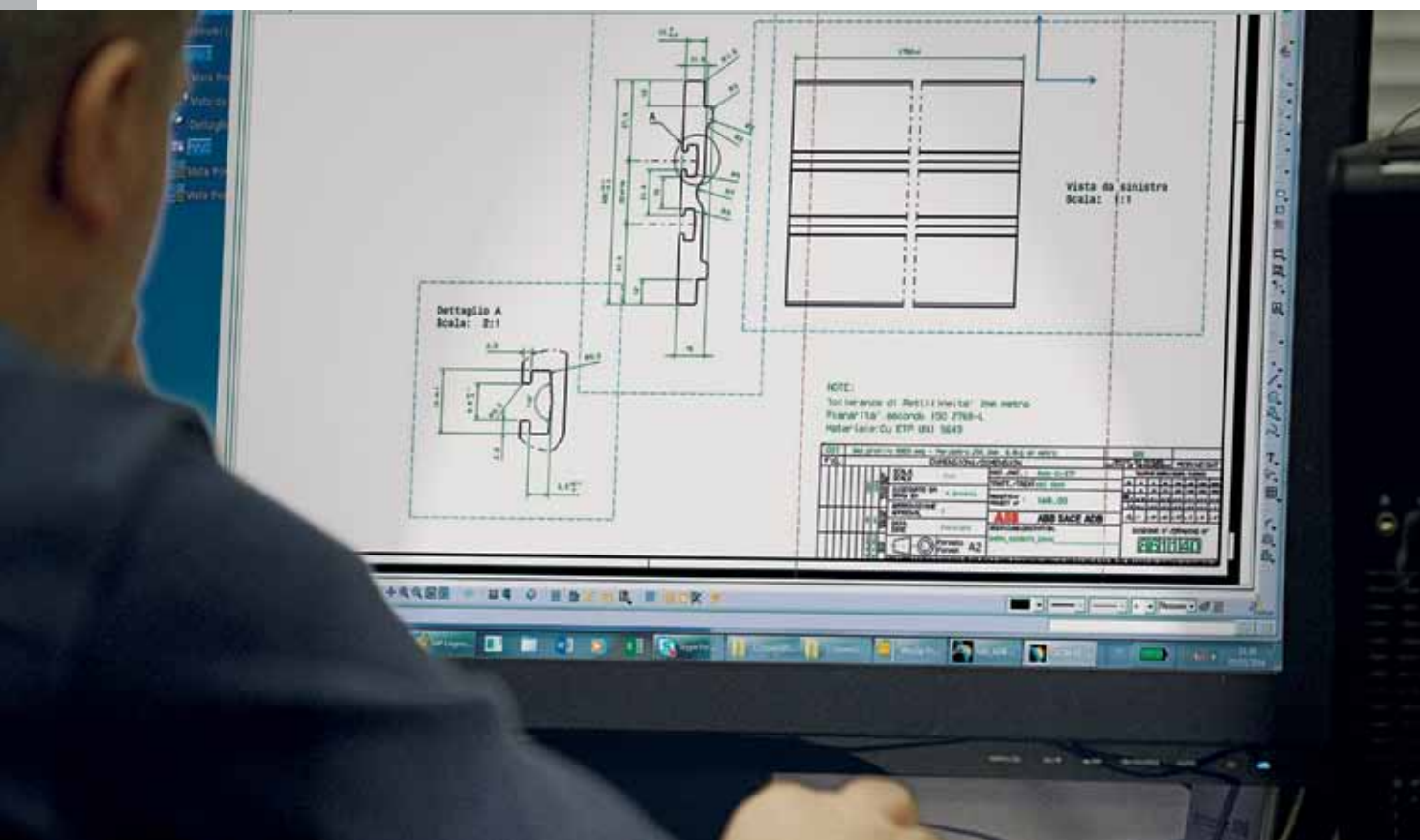
The Original manufacturer designs and sets up a wide range of assembly configurations (the as-

sembly system<sup>1</sup>), 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.

<sup>1</sup> 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:**

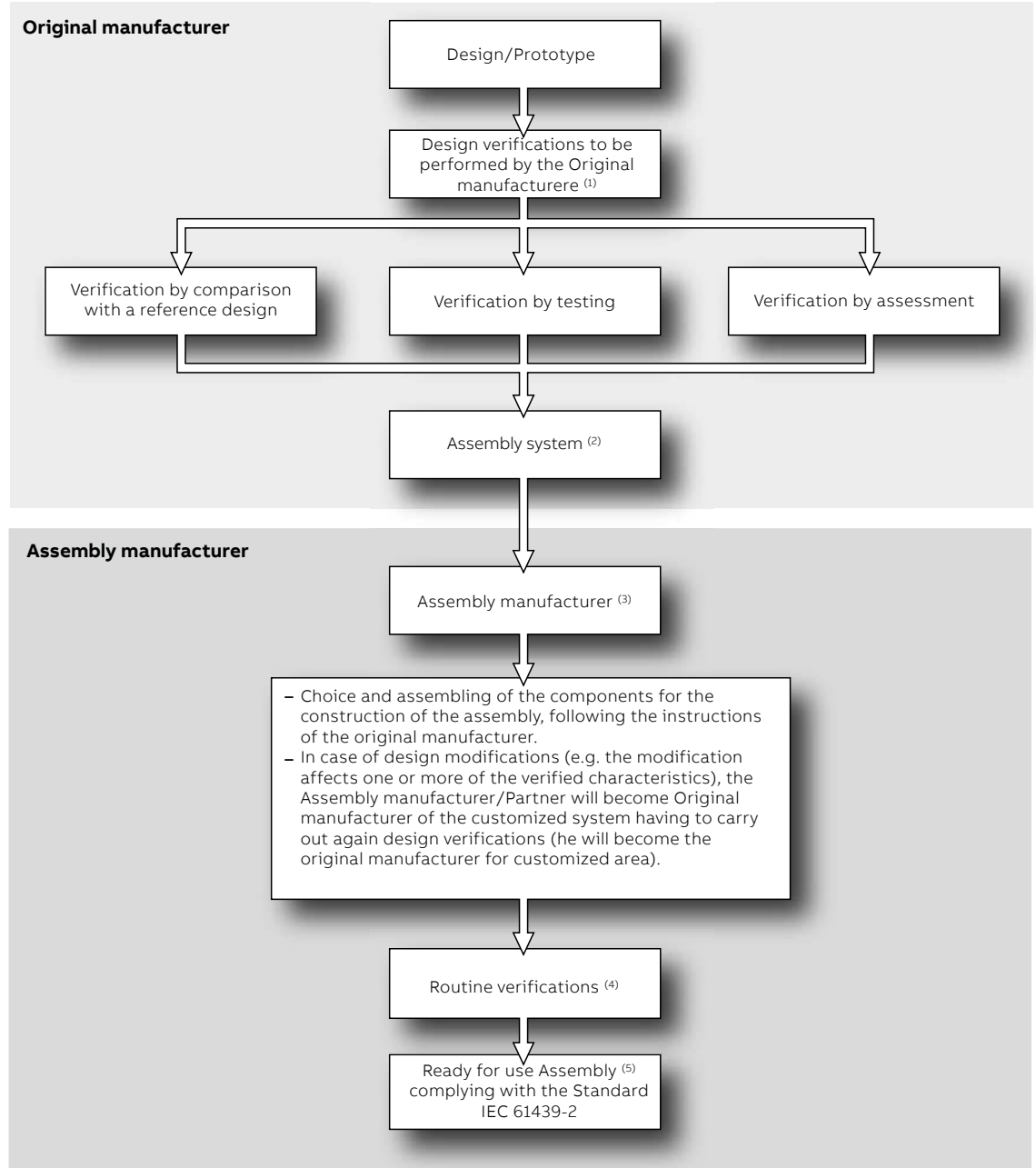
- Dielectric properties;
- Wiring, operational performance and function

## 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 ASSEM-

BLY 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	Cert A 20.040 ACAE-LOVAG
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	Cert A 20.040 ACAE-LOVAG
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	Cert A 20.040 ACAE-LOVAG
Mechanical impact	10.2.6	- IK9 (glass door) - IK10 (blind door)	Test	Cert A 20.040 ACAE-LOVAG
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
Mechanical operation	10.2.8	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	Cert A 20.040 ACAE-LOVAG
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	Cert A 20.040 ACAE-LOVAG



## Technical details and certifications

According to IEC 61439-1/2

Characteristic	Section	Standard Rule/Rating	Verification method	Test report/ Certificate No.
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 $\geq 14\text{mm}@12\text{kV}$	Test	Cert A 20.040 ACAE-LOVAG
Creepage distances	10.4	Minimum creepage distances $\geq 14\text{ mm}$ (pollution degree 3 and material group II)	Test	Cert A 20.040 ACAE-LOVAG
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 $\leq 0.1\ \Omega$ .	Test	Cert A 20.040 ACAE-LOVAG
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	Cert A 20.040 ACAE-LOVAG
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	Cert A 20.040 ACAE-LOVAG
Impulse withstand voltage	10.9.3	According to Table 10 of IEC 61439-1: Uimp = 12 kV/8 k	Test	Cert A 20.040 ACAE-LOVAG
Temperature-rise limits	10.10	Verification by test Rated current InA up to 6300 A InA max = 7000 A (main busbars)	Test	Cert A 20.040 ACAE-LOVAG

## 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	Cert A 20.040 ACAE-LOVAG
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

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 - Cert A 20.04**



# Technical details and certifications

## Anti-seismic withstand

### 1. Introduction

Anti-seismic is an important thematic which is properly 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 1 g.

### 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 "YA-TAY" 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.

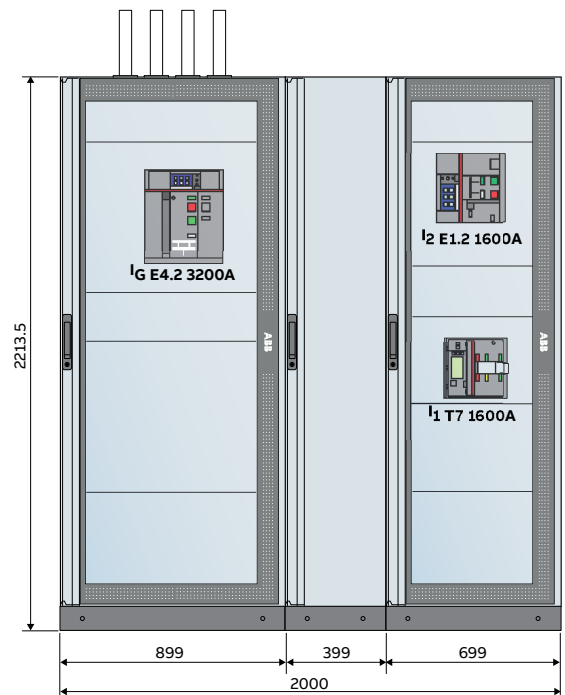
### 3. Seismic qualification

To determine the seismic qualification, 10 different configurations were seismic tested, using two different laboratories, CESI (Centro Elettrotecnico 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 1 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 ( $I_{cw}$ ), 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

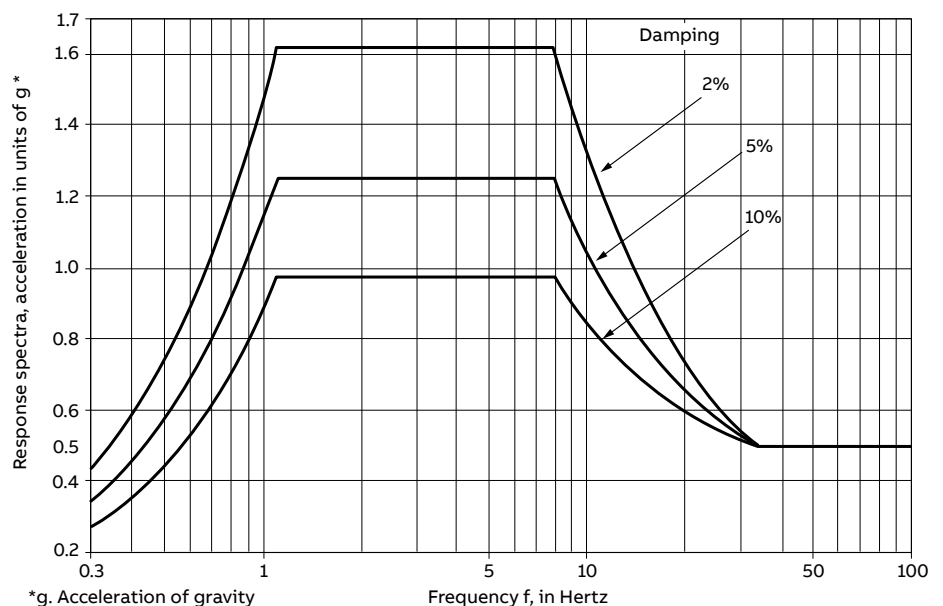
the external panels and door), with an additional load of 25% (guaranteeing the structure with an additional margin).

- 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.

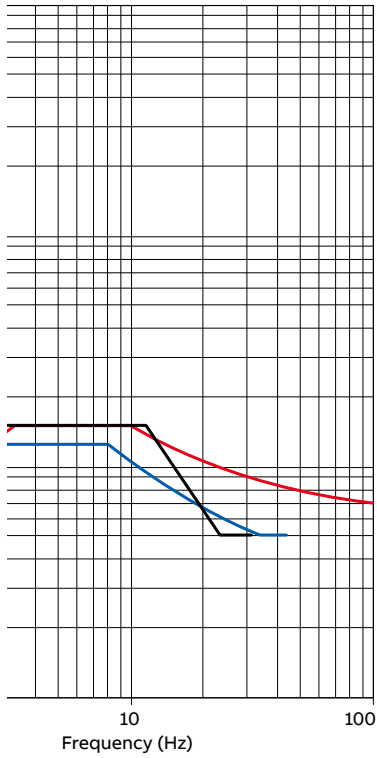


## Technical details and certifications

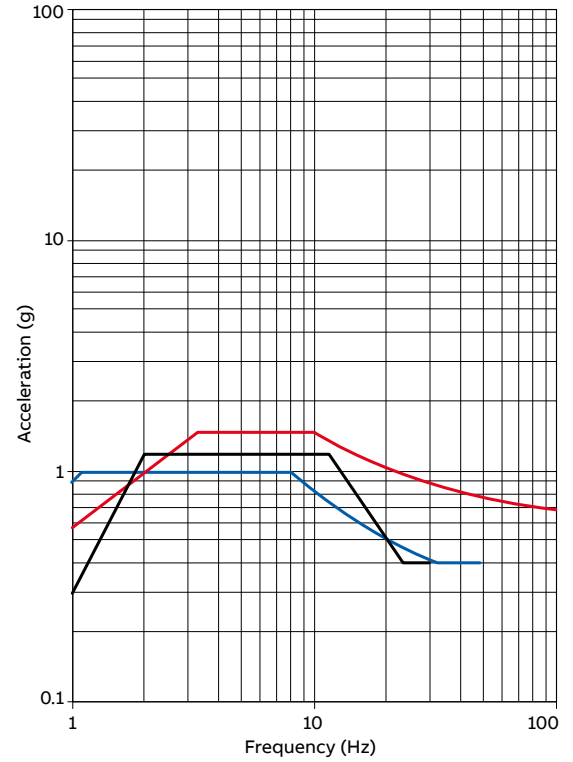
### Anti-seismic withstand

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

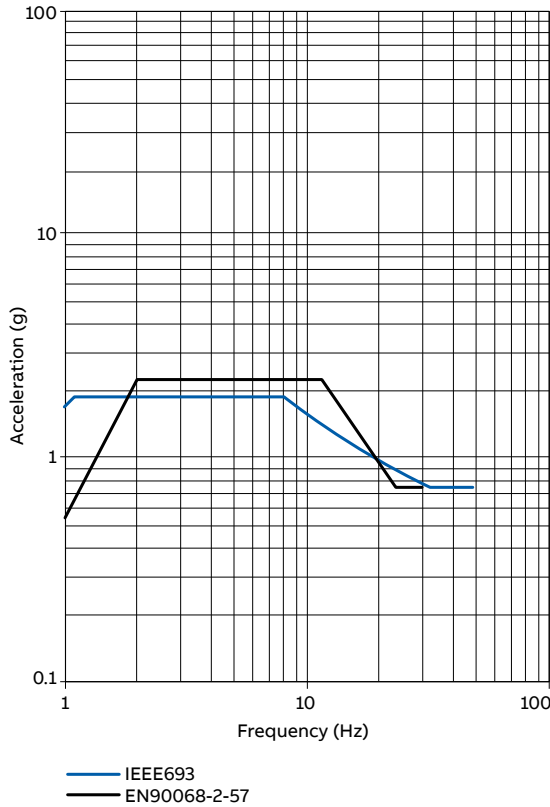
The horizontal ZPA (Zero Period acceleration) 0.69 g. is higher than the corresponding to the AG5 "Ground Acceleration Reference" defined in Table 3 of point 8.2.4 of European standard EN 60068-3-3, value calculated, as it is described in point 8.2.7 of the referred standard, as follows:

## Technical details and certifications

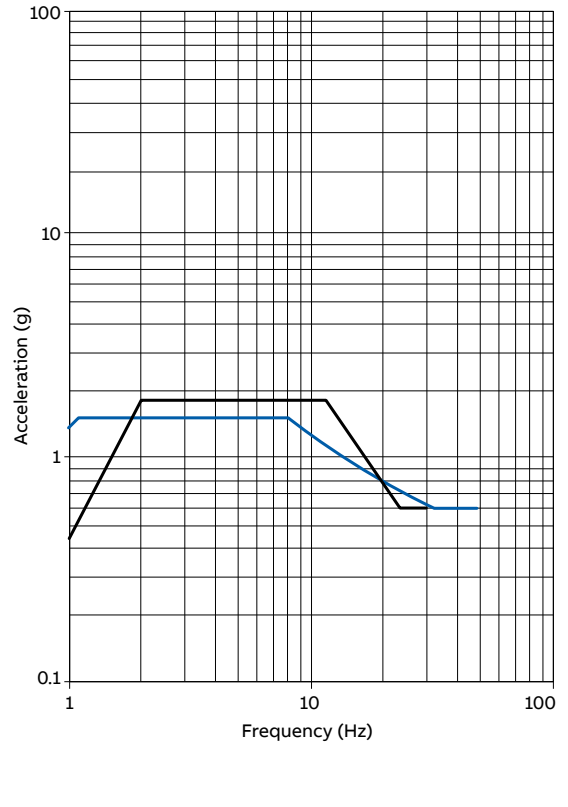
### Anti-seismic withstand

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.

POINT NUMBER	RESONANCE (Hz) (Amplification)		
	Initial (Test Number 1)	Final (Test Number 18)	Frequency Variation
2 (Close to the center of gravity)	5.44 / (4.5)	4.50 / (4.9)	-17.28 %
	23.81 / (2.5)	24.00 / (2.5)	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 %

POINT NUMBER	RESONANCE (Hz) (Amplification)		
	Initial (Test Number 2)	Final (Test Number 19)	Frequency 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

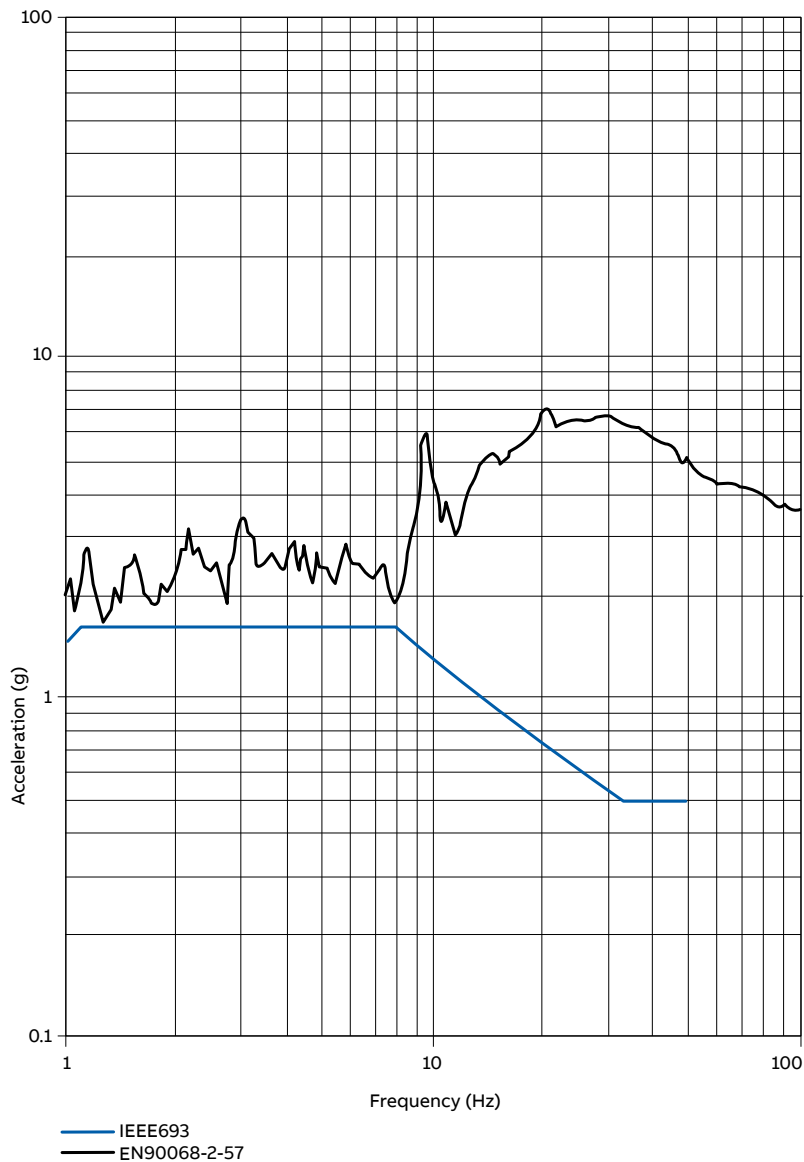
### Anti-seismic withstand

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 Spectrum (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.

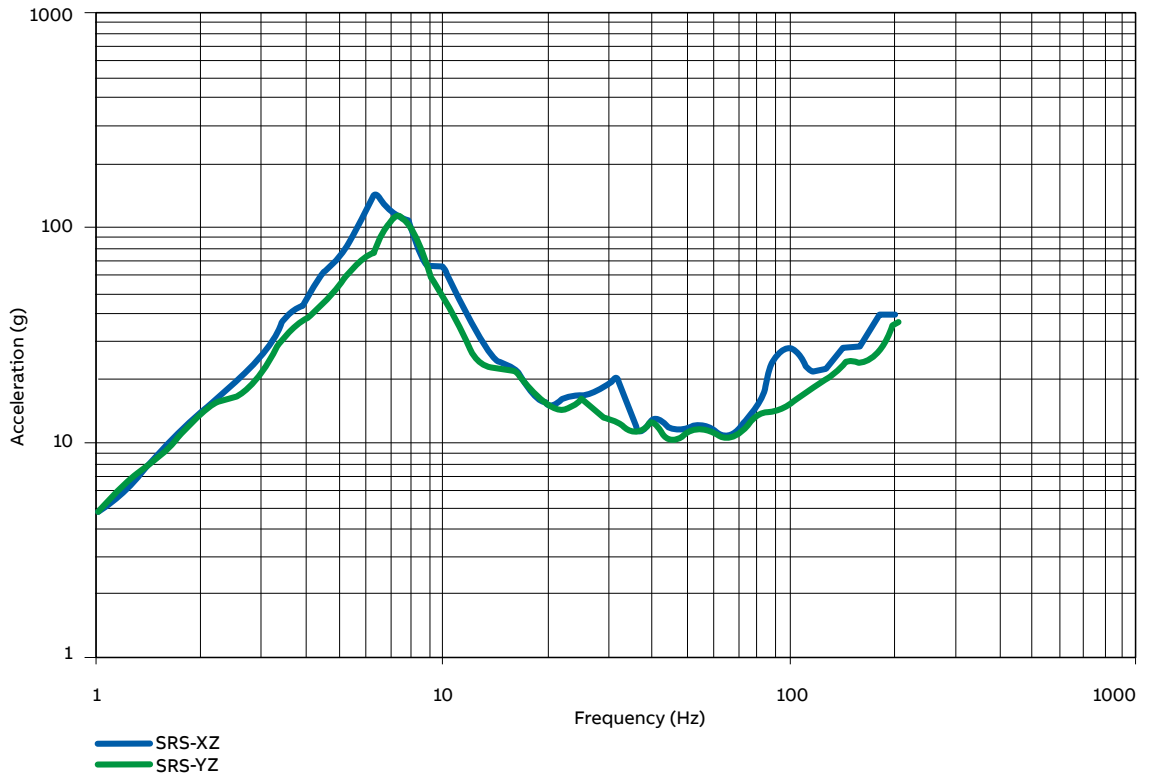
## Technical details and certifications

### 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 strengthens the structure.
- If you have a cable feed, expect an additional length in the cables



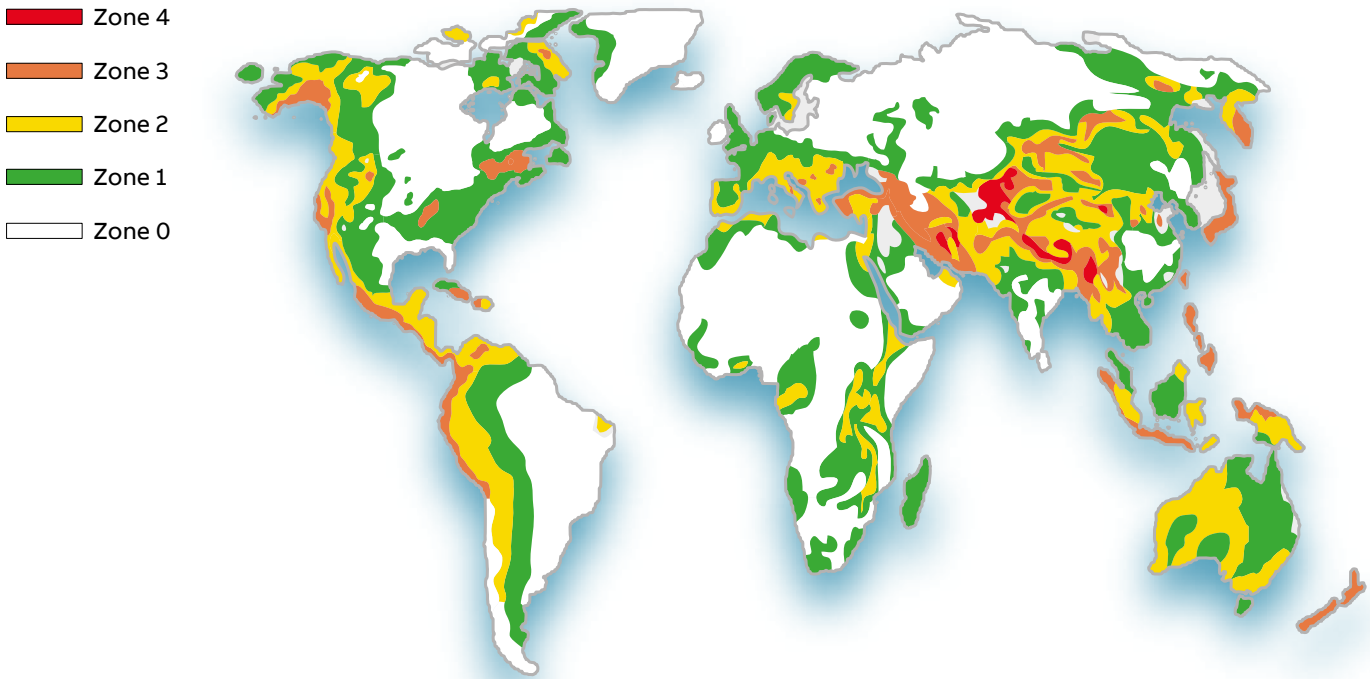
## Technical details and certifications

### 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.

System pro E power range	Seismic Zone IEC 68-3-3	Scale of Richter Magnitude	Scale of Mercalli Magnitude	Phenomena	Maximum acceleration (g)	Freed energy (J)	
AG5	4	9	XII	Exceptionally catastrophic	1.53	$>10^{17}$	
		8	XI	Catastrophic	1.02		
		7	X	Very destructive	0.51-1.02		
	AG3	3	6	IX	Destructive	0.2-0.5	$10^{14} - 5 \times 10^{15}$
			5	VIII	Damaging	0.12-0.2	
		2	4	VII	Very strong		
			3	VI	Strong		$10^{11} - 5 \times 10^{12}$
	AG2	1	4	V	Fairly strong		
			3	IV	Not strong		
			2	III	Weak		$10^9 - 5 \times 10^9$
	0	2	II	Very weak			
		1	I	Registered by instrument		$5 \times 10^6 - 10^8$	
						$<5 \times 10^6$	

# 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, descri-

bed 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 415V 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 I <sub>cw</sub> for the protection circuit	72kA (1s)
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#### 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
<b>Blind</b>							
IP30	✓ *	✓ *	-	-	✓ *	✓ *	-
IP31	✓ *	✓ *	-	-	✓ *	✓ *	✓ *
IP40	-	✓ *	✓ *	✓ *	✓ *	✓ *	-
IP41	-	✓ *	✓ *	✓ *	✓ *	✓ *	✓ *
IP65	-	✓	✓	✓	✓	✓	-
<b>Vented</b>							
IP30	✓ *	✓ *	✓ **	✓ **	✓ *	✓ *	-
IP31	✓ *	✓ *	✓ **	✓ **	✓ *	✓ *	✓ *
IP40	-	-	-	-	-	-	-
IP41	-	-	-	-	-	-	-

\* Codes in the catalogue allowing IP30-IP31 protection class to be obtained for structure with and 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 structure with and without doors. The structures change from IP30 to IP31 if the top sealing kits are used in addition to the front sealing profiles.

## 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	<table border="0"> <tr> <td>Binder:</td> <td>epoxy-polyester</td> </tr> <tr> <td>Specific gravity:</td> <td>1.61g/cm<sup>3</sup></td> </tr> <tr> <td>Theoretic yield:</td> <td>10.4m<sup>2</sup>/kg with film an average 60 microns thick</td> </tr> <tr> <td>Melting point:</td> <td>85-95 °C (Kofler bench method)</td> </tr> <tr> <td>Particle size:</td> <td>standard distribution between 5 and 100 microns with 30 to 40 micron average particle size. Setting: 12 min x 190 °C (temperature of object).</td> </tr> <tr> <td>Hardness:</td> <td>1H - 2H</td> </tr> <tr> <td>DIN 53152 bending elasticity:</td> <td>unaltered on 1/4" mandrel</td> </tr> <tr> <td>DIN 53151 cross-hatch adhesion:</td> <td>GT O (100%)</td> </tr> <tr> <td>Erichem elasticity:</td> <td>SEN DIN 53156: &gt; 6mm</td> </tr> <tr> <td>Gardner inpact resistance:</td> <td>25 kg x cm.</td> </tr> </table>	Binder:	epoxy-polyester	Specific gravity:	1.61g/cm <sup>3</sup>	Theoretic yield:	10.4m <sup>2</sup> /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.
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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).

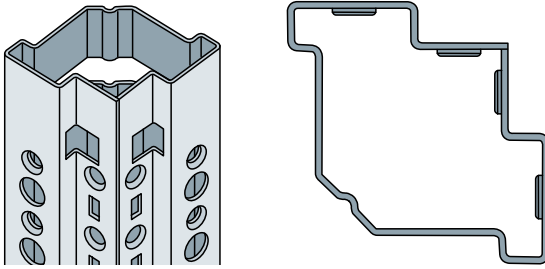
#### Environmental characteristics

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.



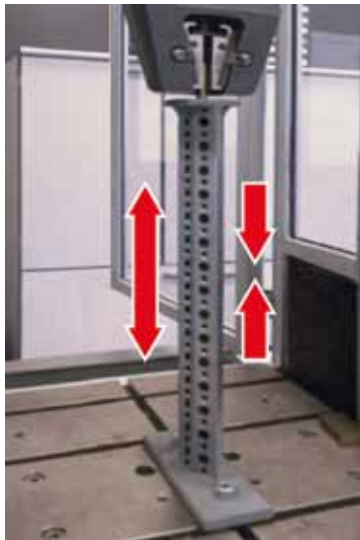
The main advantages are:

- 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
<b>Structures H = 1800mm with blind panels</b>																									
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
<b>Structures H = 2000mm with blind panels</b>																									
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.  $\Delta t$  = difference between the temperature inside the enclosure and ambient temperature.

**Example**

Enclosure IP31 H=1800mm, W=400mm, D=200mm exposed on all sides

Temperature inside the enclosure (t)	°C 70 =
Ambient temperature (t)	°C 35 =
$\Delta t$	°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			
W (mm)	D (mm)	Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)			
		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
<b>Structures H = 1800mm with ventilated panels</b>																	
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
<b>Structures H = 2000mm with ventilated panels</b>																	
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.  $\Delta t$  = 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 =
$\Delta t$	°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	25 °C	30 °C	35 °C	40 °C																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																						
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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	<b>Structures H = 2000mm with blind panels</b>																																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
<b>Structures H = 2000mm with blind panels</b>																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																			
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.  $\Delta t$  = difference between the temperature inside the enclosure and ambient temperature.

### Example

Enclosure IP31 H=1800mm, W=600mm, D=900mm exposed on all sides

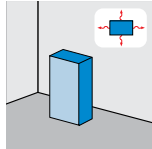
Temperature inside the enclosure (t)	°C 70-
Ambient temperature (t)	°C 35=
$\Delta t$	°C 35
Maximum power dissipated	(W) 781

# Technical details and certifications

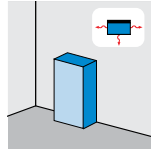
## Power dissipated

### System pro E power IP40/41

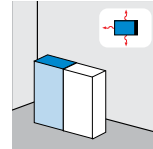
Separate enclosure exposed on all sides



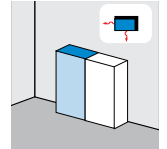
Separate enclosure for assembly on a wall



First and last enclosures exposed



First and last enclosures for assembly on wall



W (mm)	D (mm)	Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)				Maximum power dissipated (W)			
		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
<b>Structures H = 1800mm with ventilated panels</b>																	
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	611	764	927
800	900	977	1261	1565	1887	919	1185	1471	1772	655	845	1048	1263	556	728	914	1112
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
<b>Structures H = 2000mm with ventilated panels</b>																	
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.  $\Delta t$  = 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 =
$\Delta t$	°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	25 °C	30 °C	35 °C	40 °C		
<b>Structures H = 1800mm with blind panels</b>																															
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	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	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	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	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	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	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	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	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	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	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	513	286	358	434	513		
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	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	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	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	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	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	624	771	930	1090		
<b>Structures H = 2000mm with blind panels</b>																															
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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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	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 exposed on all sides

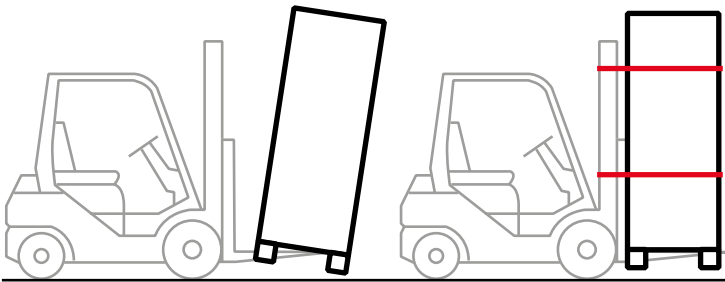
Temperature inside the enclosure (t)	°C 70-
Ambient temperature (t)	°C 35=
Δt	°C 35
Maximum power dissipated	(W) 681

# Technical details and certifications

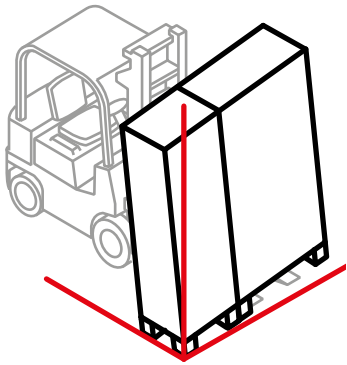
## Handling

### Bottom handling

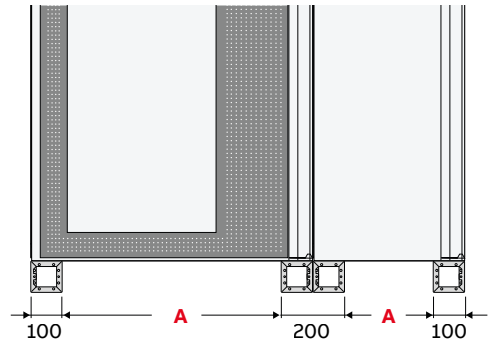
For extra safety, it is advisable to fasten the switchboard to the lift truck when using this type of vehicle for transport.



Check the center of gravity before handling structures measuring L=800/1000mm (with internal or external cable compartment) containing busbar systems.

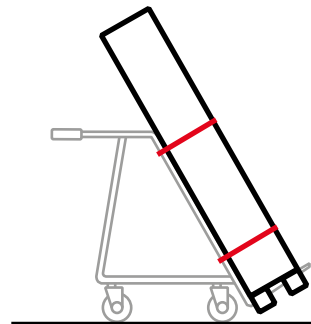


### Useful dimensions for handling via forklift or pallet



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:



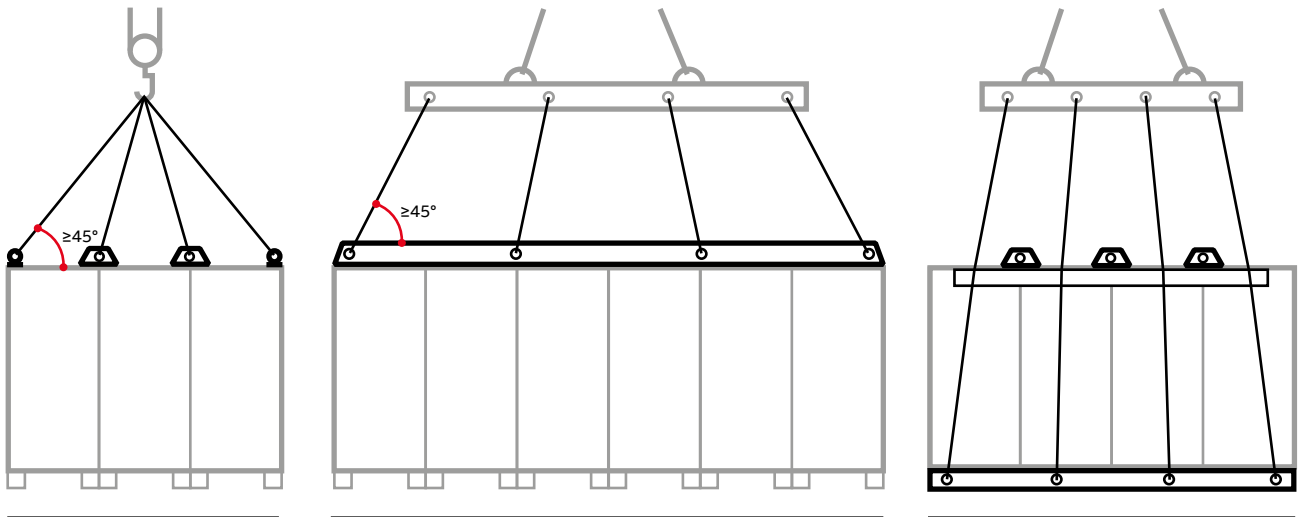
## Technical details and certifications

### Handling

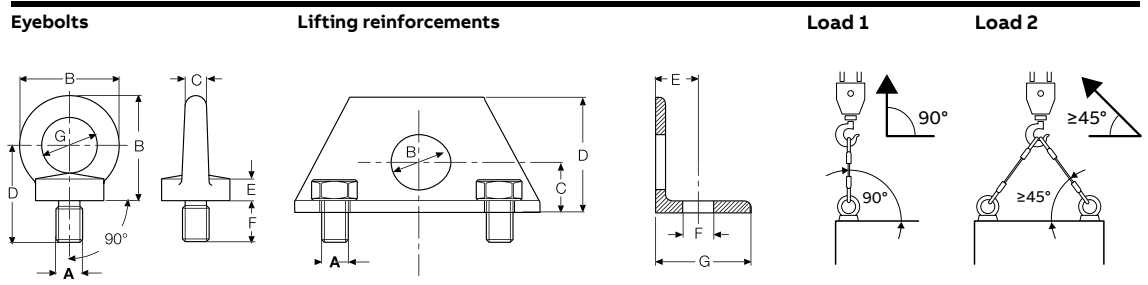
#### Lifting from above

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  $\geq 45^\circ$ ;
- 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.



A	B (mm)	C (mm)	D (mm)	E (mm)	F (mm)	G (mm)	Load 1 (kg)	Load 2 (kg)	Tightening torque (Nm)
<b>Eyebolts</b>									
M12	54	12	28	10	22	30	340	240	8
<b>Lifting reinforcements</b>									
M12	Ø40	37	80	25	Ø14	60	510	350	40

Tests performed in accordance with Standard EN 62208 (sect. 8.4)

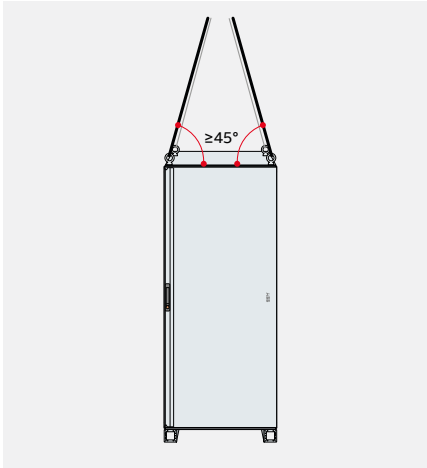
Empty enclosures for low voltage assembled protection apparatus and switchgear. General requirements

## Technical details and certifications

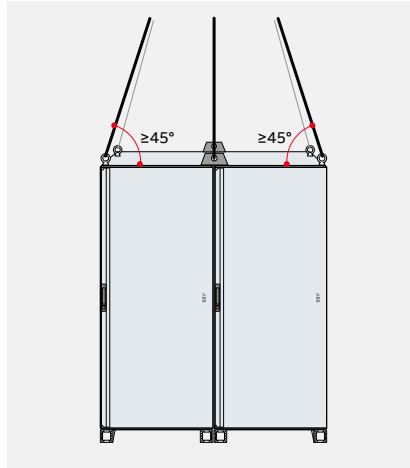
### Handling

Lifting from above - single columns weighing  $\leq 1000$  kg

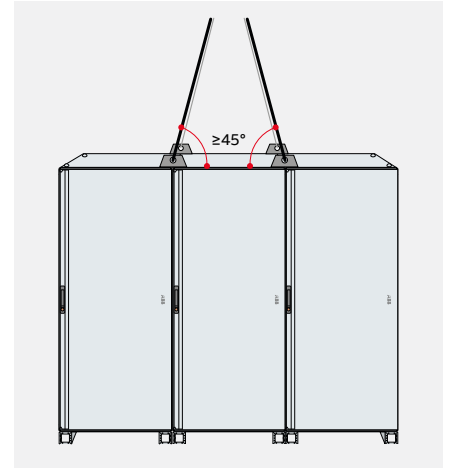
Maximum lifting and loading capacities (gross weight)  
In accordance with Standard IEC EN 62208



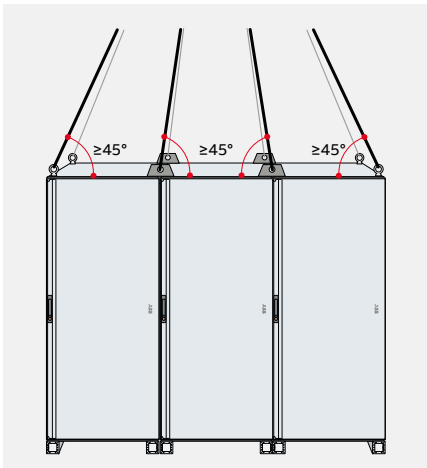
Number of columns	1	
Maximum weight of single column	kg 1000	
Total weight of columns	kg 1000	
Joining kit	PSBS0065	
Lifting kit	Eyebolts	PEBL0004
	Reinforcements	
Number of anchor rods used	4	



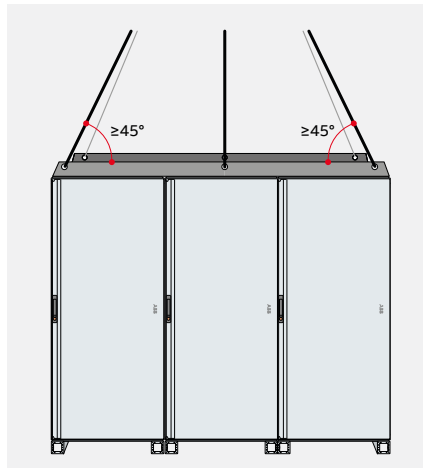
Number of columns	2	
Maximum weight of single column	kg 1000	
Total weight of columns	kg 2000	
Joining kit	PSBS0065	
Lifting kit	Eyebolts	PEBL0004
	Reinforcements	PBRL0002
Number of anchor rods used	6	



Number of columns	3	
Maximum weight of single column	kg 500	
Total weight of columns	kg 1500	
Joining kit	PSBS0065	
Lifting kit	Eyebolts	PEBL0004
	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
	Reinforcements	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

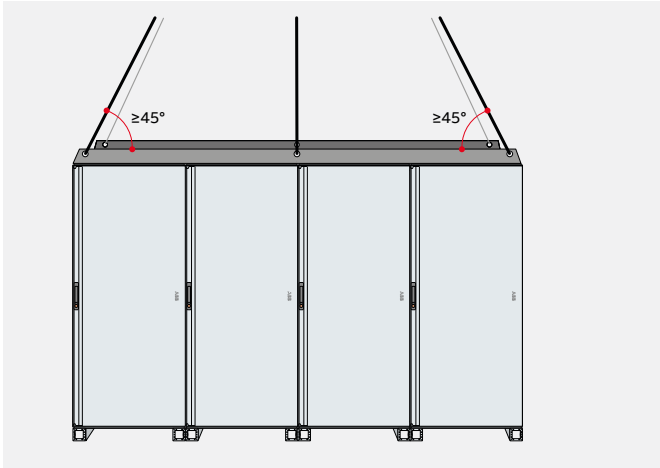
### Handling

Lifting from above - single columns weighing  $\leq 1000$  kg

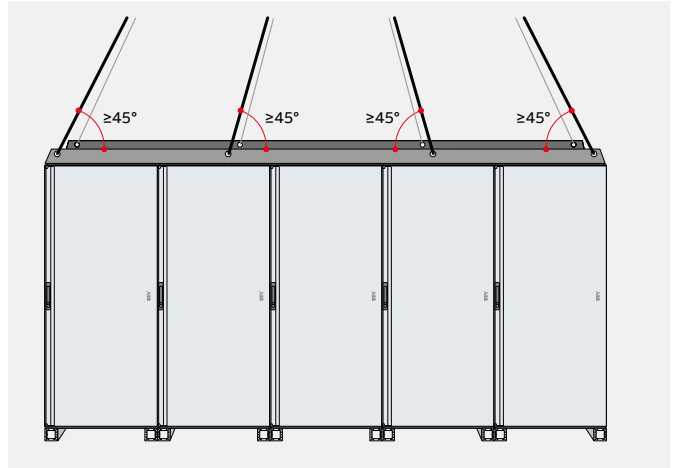
Maximum lifting and loading capacities (gross weight)

In accordance with Standard IEC EN 62208

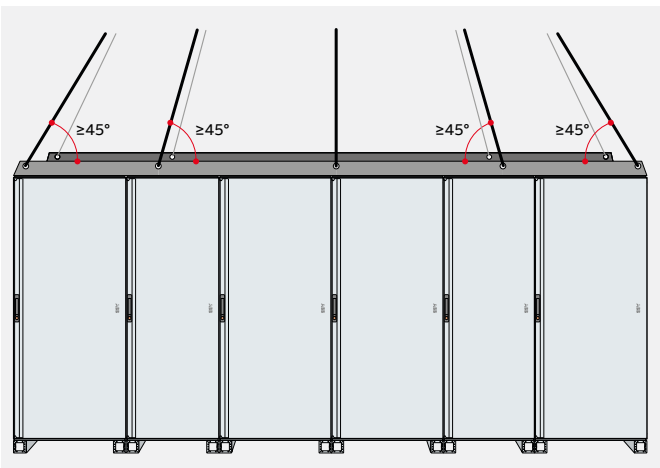
The number of holes in the lifting bar equals the number of columns -1.



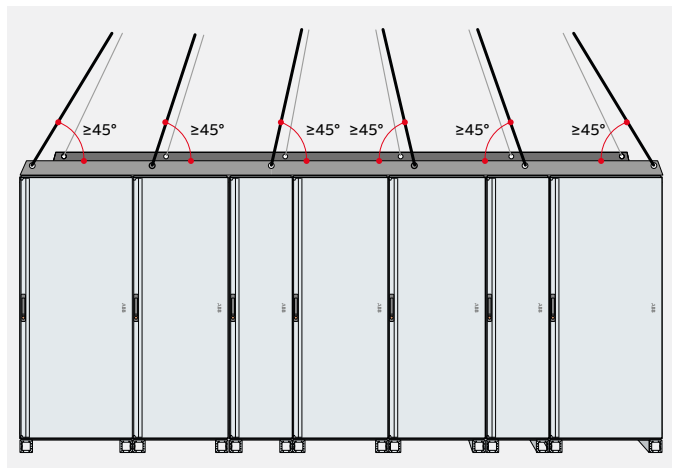
Number of columns	4
Maximum weight of single column	kg 1000
Total weight of columns	kg 4000
Joining kit	PSBS0065
Lifting kit	Beam TU1000
Number of anchor rods used	6



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



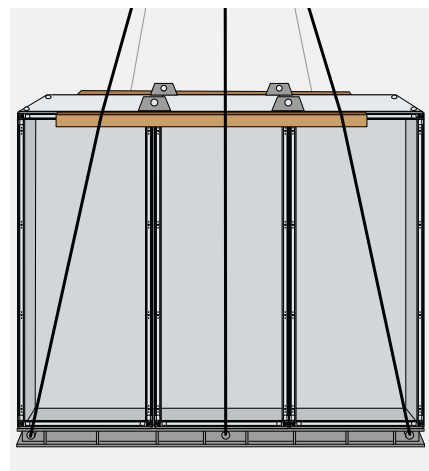
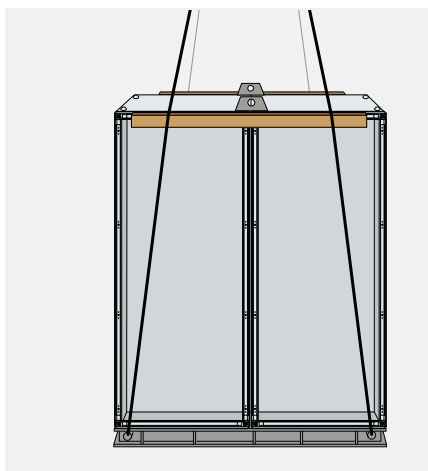
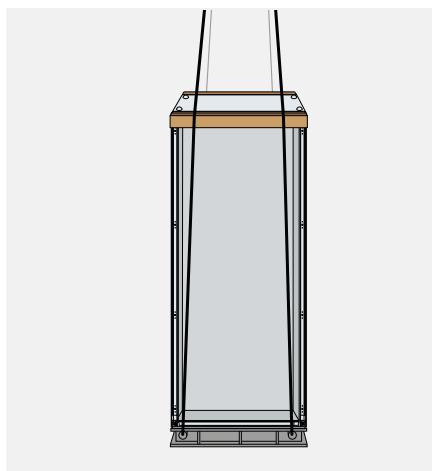
Number of columns	7 (maximum 6 meters)
Maximum weight of single column	kg 1000
Maximum weight of columns	kg 5000
Joining kit	PSBS0065
Lifting kit	Beam TU1000
Number of anchor rods used	12

## 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

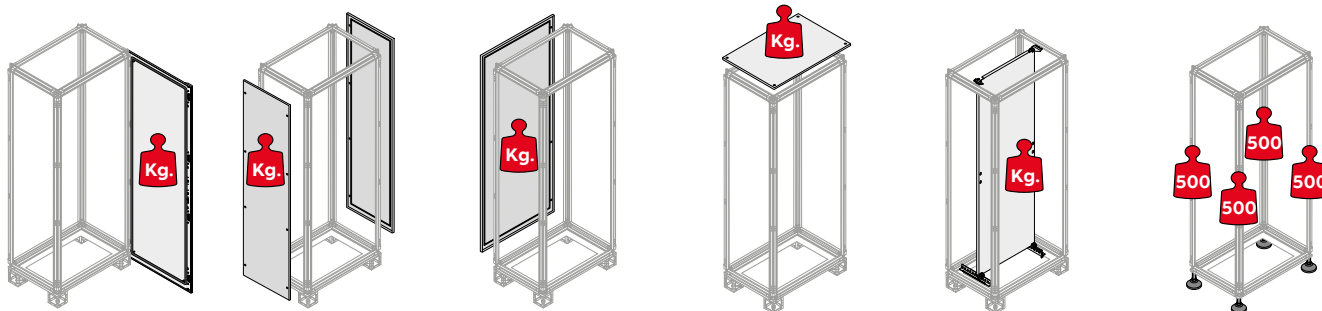


Number of columns	1	
Weight of single column	Kg > 1000	
Joining kit	PSBS0065	
Lifting kit	Reinforced plinth	PPUN0100
Structure reinforcement	PRAS0012*	
Position and number of reinforcing tubes	Depends on switchboard front (specify when ordering)	

Number of columns	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)	

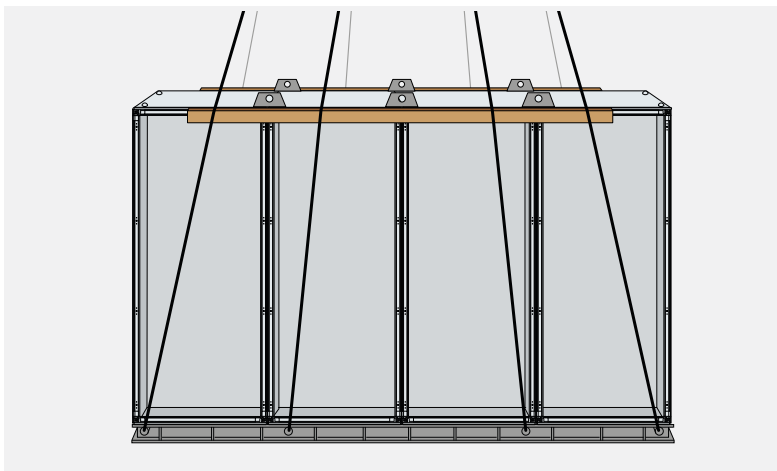
\* Order one PRAS0012 kit for each column weighing  $\geq 1000$  kg



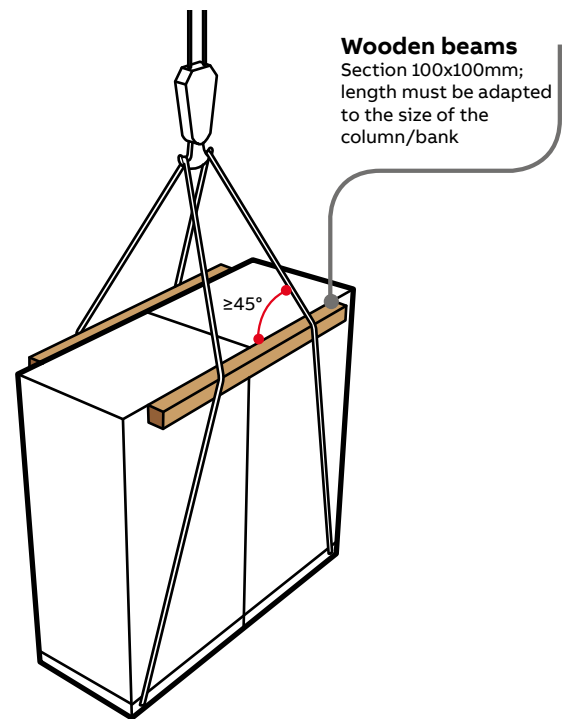
Door	Side panels		Rear panels		Roof	Blind mounting plate total height	Levelling feet EV1004
Kg	D (mm)	Kg	W (mm)	Kg	Kg	Kg	Kg
50	>700	90	>600	90	40	500	500 cad.
	$\leq 700$	110	$\leq 600$	110			

## Technical details and certifications

### Handling



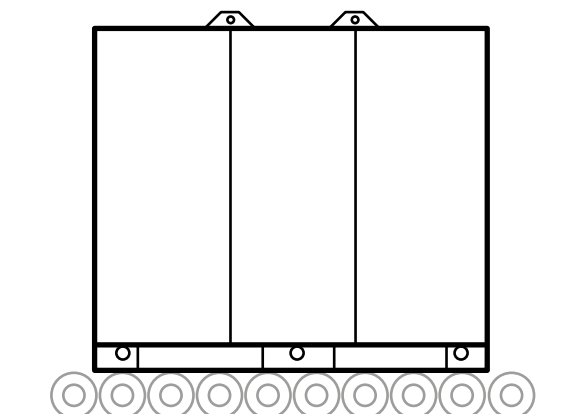
Example of lifting using protective wooden beams



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

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 U <sub>e</sub>	up to 690V AC
Rated insulation voltage U <sub>i</sub>	up to 1000V AC / 1500V DC
Rated current / I <sub>cw</sub>	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 re-








quirements established by SEMC in the ISO TR 14025 TYPE III Environmental 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.  $\Omega$  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.

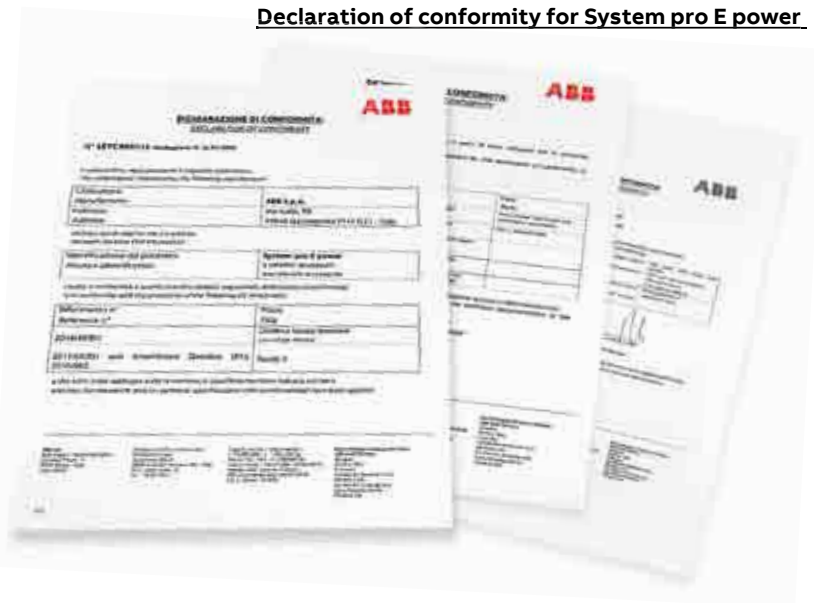
The paint reduces the electrical continuity of the assembled parts.

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

### Declaration of conformity for System pro E power



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.

### Electrical continuity up to 10A for System pro E power components

Description	Finishing		Electrical continuity	
	galvanized sheet steel/ stainless steel	Painted metal sheet	Automatic	Through Braid
Uprights/Crosspieces	✓		✓	
Fixed Frame	✓		✓	
Swing frame		✓		✓
Internal panels for devices		✓	✓	
Plate for devices	✓		✓	
External panel: side/back/top		✓	✓	
External panel: bottom with angle pieces		✓		✓
Bottom panel IP40 without angle pieces	✓		✓	
Front door		✓	✓	

## Technical details and certifications

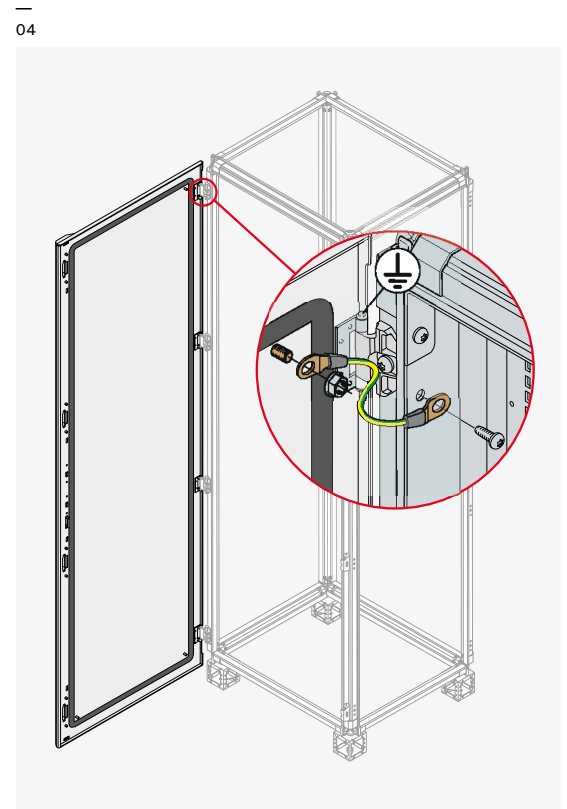
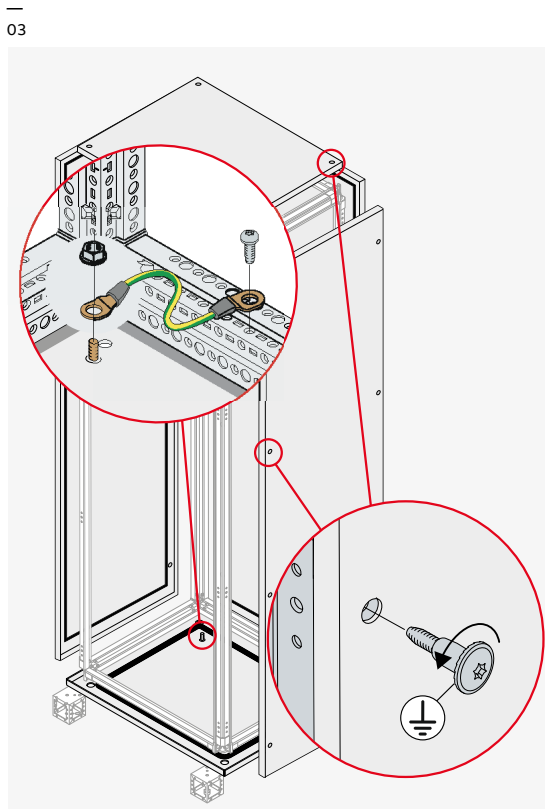
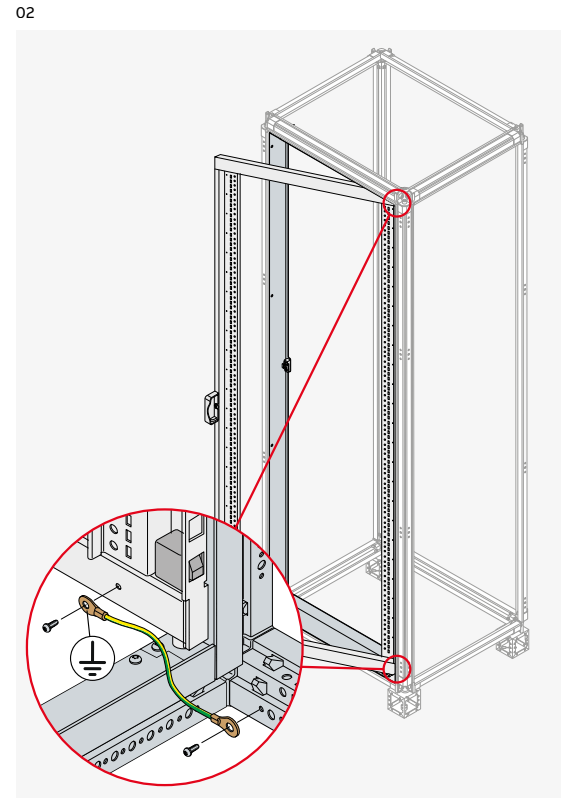
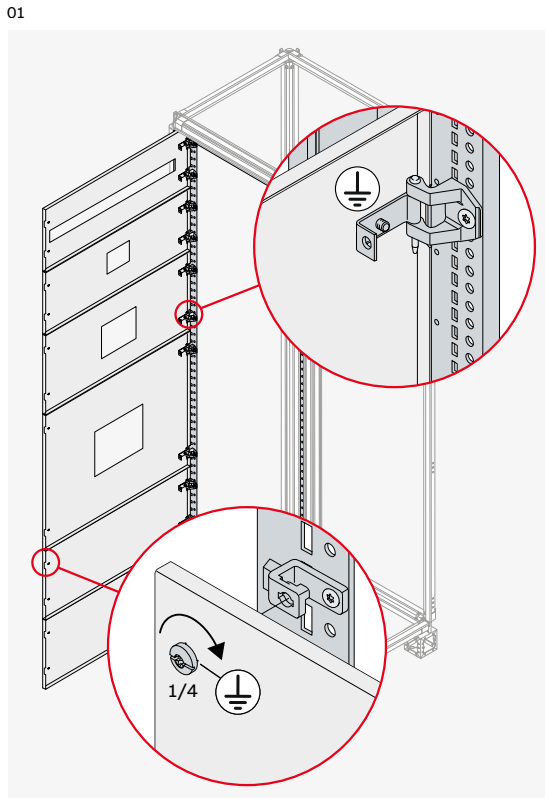
### Electrical continuity

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 glass doors are equipped with a metallic pin which guarantee the electrical continuity. Furthermore, with M6 copper studs which guarantee electrical continuity with the traditional copper braid.



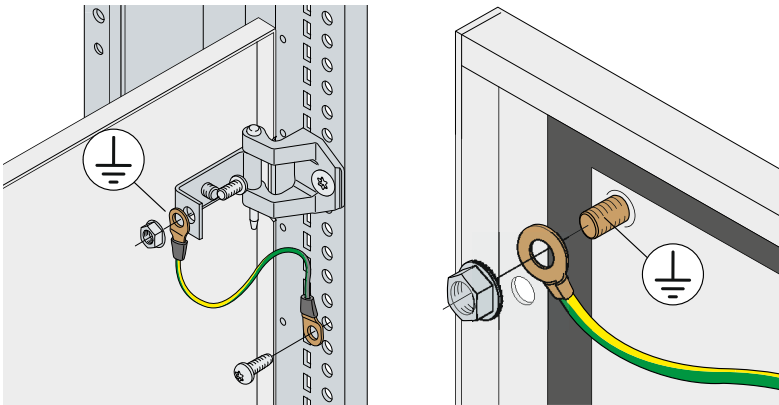
# Technical details and certifications

## 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) with trefoil screws M6 or with earthing fixing brackets PBRP0002;
- 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 (mm <sup>2</sup> )				Sp (mm <sup>2</sup> )
	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 <sub>e</sub> (A)				Minimum section of the protective bonding conductor (mm <sup>2</sup> )
	I <sub>e</sub>	≤	20	S
20	<	I <sub>e</sub>	≤ 25	2,5
25	<	I <sub>e</sub>	≤ 32	4
32	<	I <sub>e</sub>	≤ 63	6
63	<	I <sub>e</sub>		10

S = section of the line conductor (mm<sup>2</sup>)

### Conductor PEN

The section of the PEN conductors of an apparatus must be determined in the same way as the neutral conductor (N).


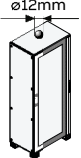
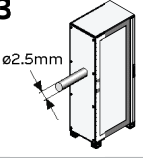
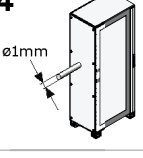
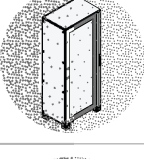
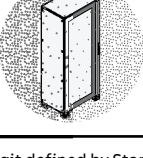
10mm<sup>2</sup> is the minimum section of a copper conductor. The PEN conductor does not need to be insulated. Structure parts must not be used as a PEN conductors.

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

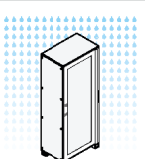
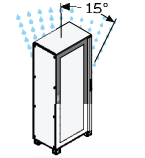
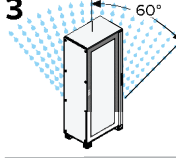
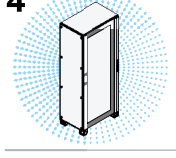
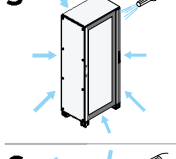
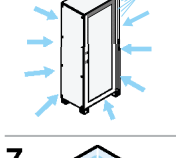
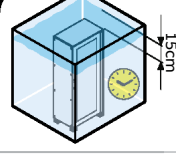
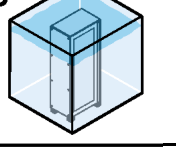
## IP protection class

**1<sup>st</sup> DIGIT: protection against solid objects**

0	No protection
<b>1</b>	 <p>Protected against solid objects larger 50mm (accidental contact with the hands)</p>
<b>2</b>	 <p>Protected against solid objects larger than 12mm (fingers)</p>
<b>3</b>	 <p>Protected against solid objects larger than 2.5mm (tools, wires)</p>
<b>4</b>	 <p>Protected against solid objects larger than 1mm</p>
<b>5</b>	 <p>Protected against dust (no harmful deposits)</p>
<b>6</b>	 <p>Totally protected against dust</p>

1<sup>st</sup> digit defined by Standards 61439-1-2 (Ref. sect. 10.3).

**2<sup>nd</sup> DIGIT: Protection against liquids**

0	No protection
<b>1</b>	 <p>Protected against vertically dripping water (condensation)</p>
<b>2</b>	 <p>Protected against water dripping at an angle up to 15° from the vertical</p>
<b>3</b>	 <p>Protected against rain falling at an angle up to 60° from the vertical</p>
<b>4</b>	 <p>Protected against water splashing from all directions</p>
<b>5</b>	 <p>Protected against jets of water sprayed from all directions</p>
<b>6</b>	 <p>Protected against jets of water similar to waves</p>
<b>7</b>	 <p>Protected against the effects of temporary immersion</p>
<b>8</b>	 <p>Protected against the effects of continuous immersion</p>

2<sup>nd</sup> digit defined by Standards 61439-1-2 (Ref. sect. 10.3).

7

## Technical details and certifications

### IP protection class

#### Protection against ingress of solid objects

1 <sup>st</sup> 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 than 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

2 <sup>nd</sup> 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.

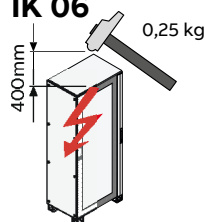
**IK 0**

Not protected



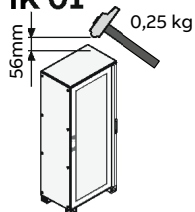
**IK 06**

Impact energy in Joule 1.00



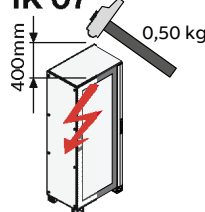
**IK 01**

Impact energy in Joule 0.140



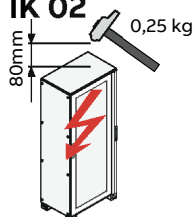
**IK 07**

Impact energy in Joule 2.00



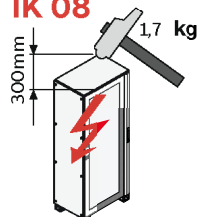
**IK 02**

Impact energy in Joule 0.200



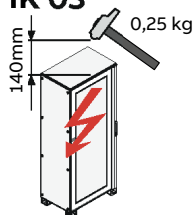
**IK 08**

**System pro E power**  
Without doors and with front blind panels  
Impact energy in Joule 5.00



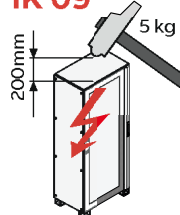
**IK 03**

Impact energy in Joule 0.350



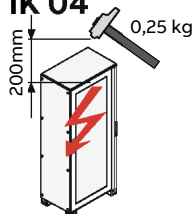
**IK 09**

**System pro E power**  
Glass door  
Impact energy in Joule 10.00



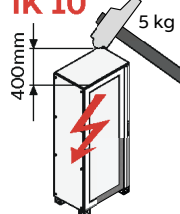
**IK 04**

Impact energy in Joule 0.500



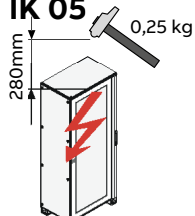
**IK 10**

**System pro E power**  
Blind door  
Impact energy in Joule 20.00



**IK 05**

Impact energy in Joule 0.700














































# 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

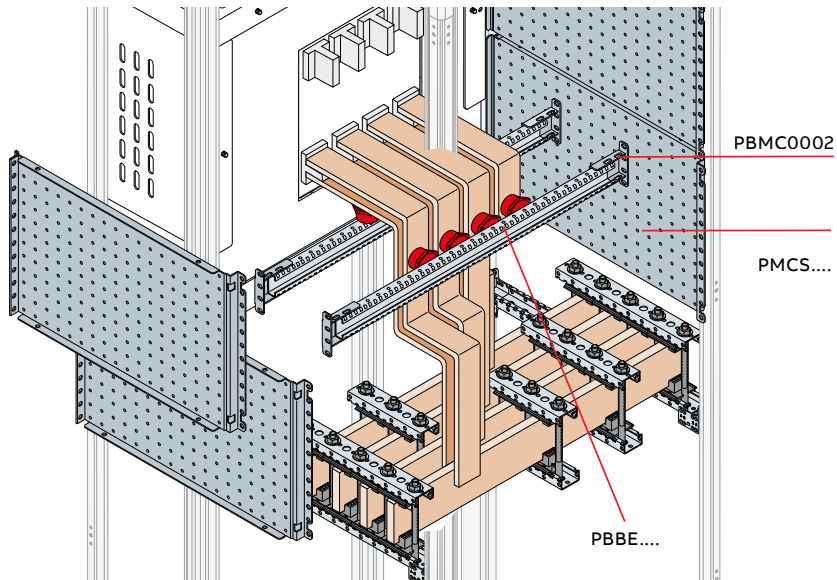
for the paint. For every request regarding special colours, please contact ABB.

**RAL color chart available (minimum lot of 3 structures)**

<p><b>RAL 1001</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 1004</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 1013</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 1015</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 1018</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>
<p><b>RAL 1021</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 2004</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 2008</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 2009</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 3000</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>
<p><b>RAL 3004</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 3020</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 4005</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 5000</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 5009</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>
<p><b>RAL 5010</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 5012</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 5015</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 6011</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 6021</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>
<p><b>RAL 6027</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 7001</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 7004</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 7012</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 7016</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>
<p><b>RAL 7024</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 7030</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 7032</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 7035</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 7036</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>
<p><b>RAL 7037</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 7038</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 7040</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 7042</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 7043</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>
<p><b>RAL 7047</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 9001</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 9002</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 9003</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 9005</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>
<p><b>RAL 9007</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 9010</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>	<p><b>RAL 9016</b></p>  <p>Smooth <input type="checkbox"/></p> <p>Orange peel <input type="checkbox"/></p>		

## Technical details and certifications

Examples of connections from vertical circuit-breaker to omnibus busbars





## Technical details and certifications

Examples of connections from vertical circuit-breaker to omnibus busbars

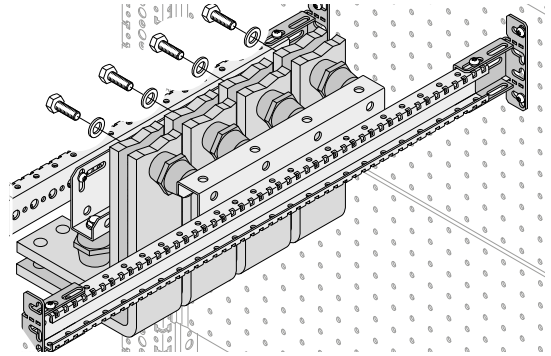
### Busbar fastening brackets

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  $I_{pk}$ . 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

### Circuit breakers and connections

Type	lcw (kA)	Icc (kA)	Insulated copper flexible bars*	Copper
Tmax XT1 160A		50	1x15.5x3	1x15x5
Tmax XT2 160A		100	1x15.5x3	1x15x5
Tmax XT3 250A		100	1x20x3	1x20x5
Tmax XT4 250A		100	1x20x3	1x20x5
Tmax T4 250A		100	1x20x3	1x20x5
Tmax T4 320A		100	1x20x5	1x25x5
Tmax XT5-T5 400A		100	1x32x5	1x30x10
Tmax XT5-T5 630A		100	1x32x10	1x30x10
Tmax XT6-T6 630A		100	1x32x10	1x30x10
Tmax XT6-T6 800A		100	1x32x10	1x30x10
Tmax T7 1000A		100	1x50x10	1x50x10
Tmax XT7 1000A		100	1x50x10	1x50x10
Emax E1.2 1250A	50	66		2x50x10
Emax E1.2 1250A	50	66		1x100x10
Tmax T7 1250A		100	2x50x10	2x40x10
Tmax XT7 1250A		100	2x50x10	2x40x10
Emax E1.2 1600A	50	66		2x50x10
Tmax T7 1600A		100		2x50x10
Tmax XT7 1600A		100		2x50x10
Emax E2.2 2000A	85	85		3x60x10**
Emax E2.2 2500A	85	85		3x60x10
Emax E4.2 3200A	100	100		3x100x10
Emax E4.2 4000A	100	100		4x100x10
Emax E6.2 5000A	120	120		5x100x10
Emax E6.2 6300A	120	120		7x100x10

\* Compatible for both front and rear terminal.

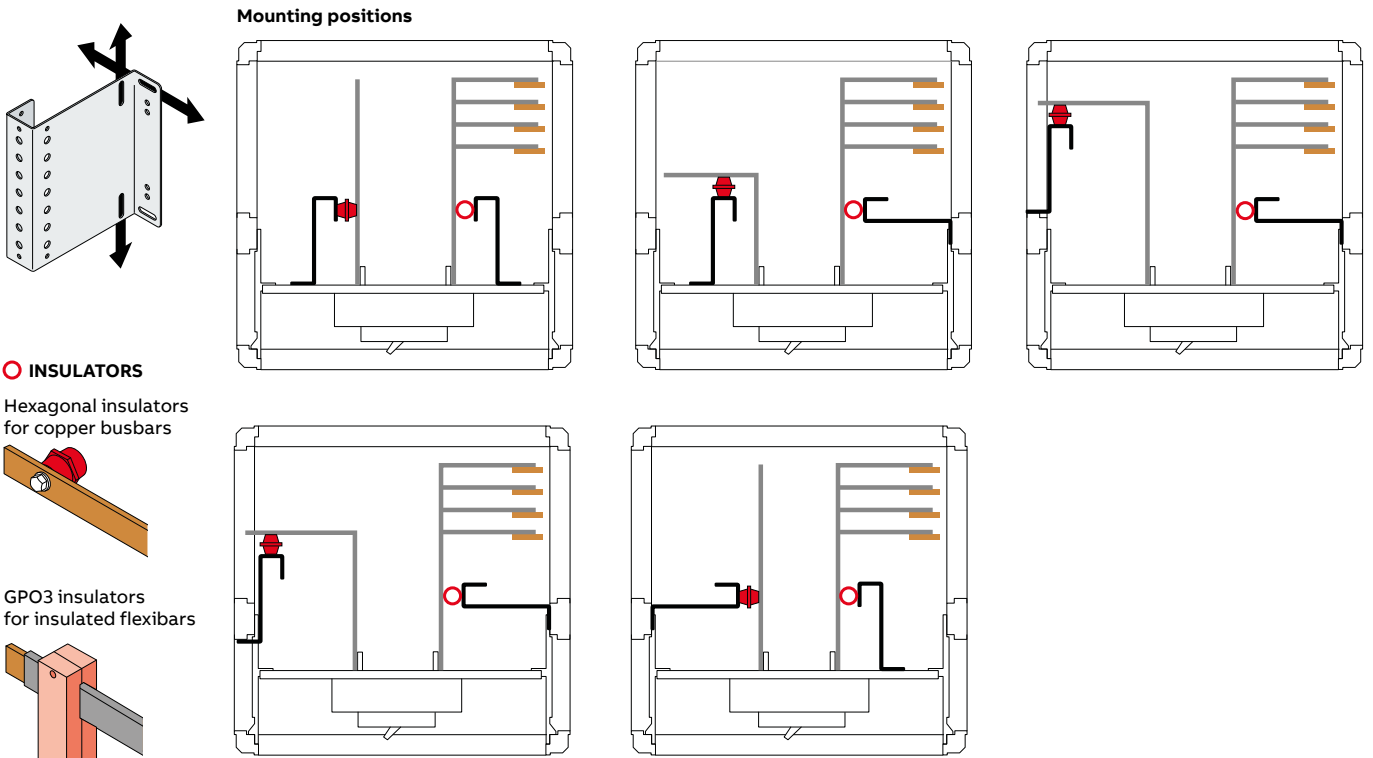
\*\* 2x60x10 connections performance can be used only in non-segregated switchboard and with only one ACB per column.

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:

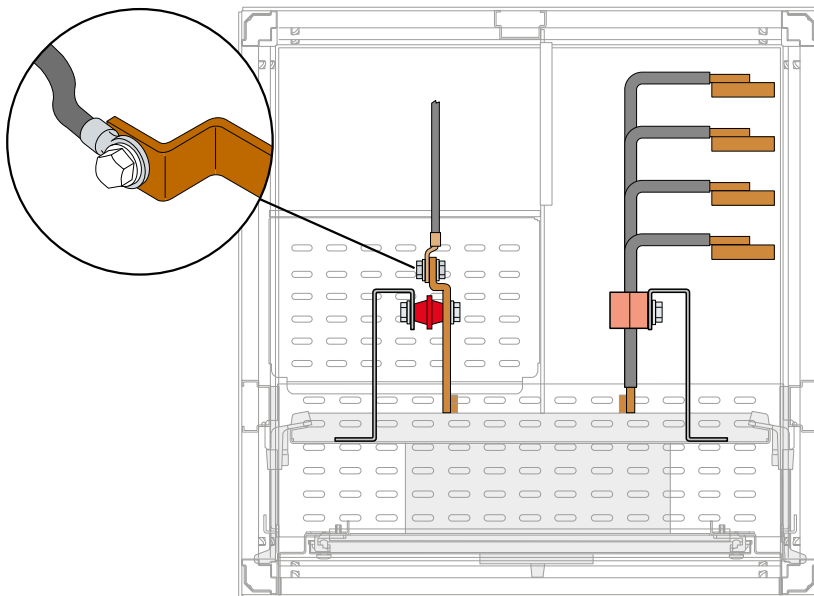
<https://new.abb.com/low-voltage/it/prodotti/contentitori/system-pro-e-power/system-pro-e-power/preconfigurate>

# Technical details and certifications

## Examples of brackets used for horizontal moulded-case circuit-breakers



**Example of use of the brackets in structure form 4b with attestation of the cables coming out of the rear cubicle**

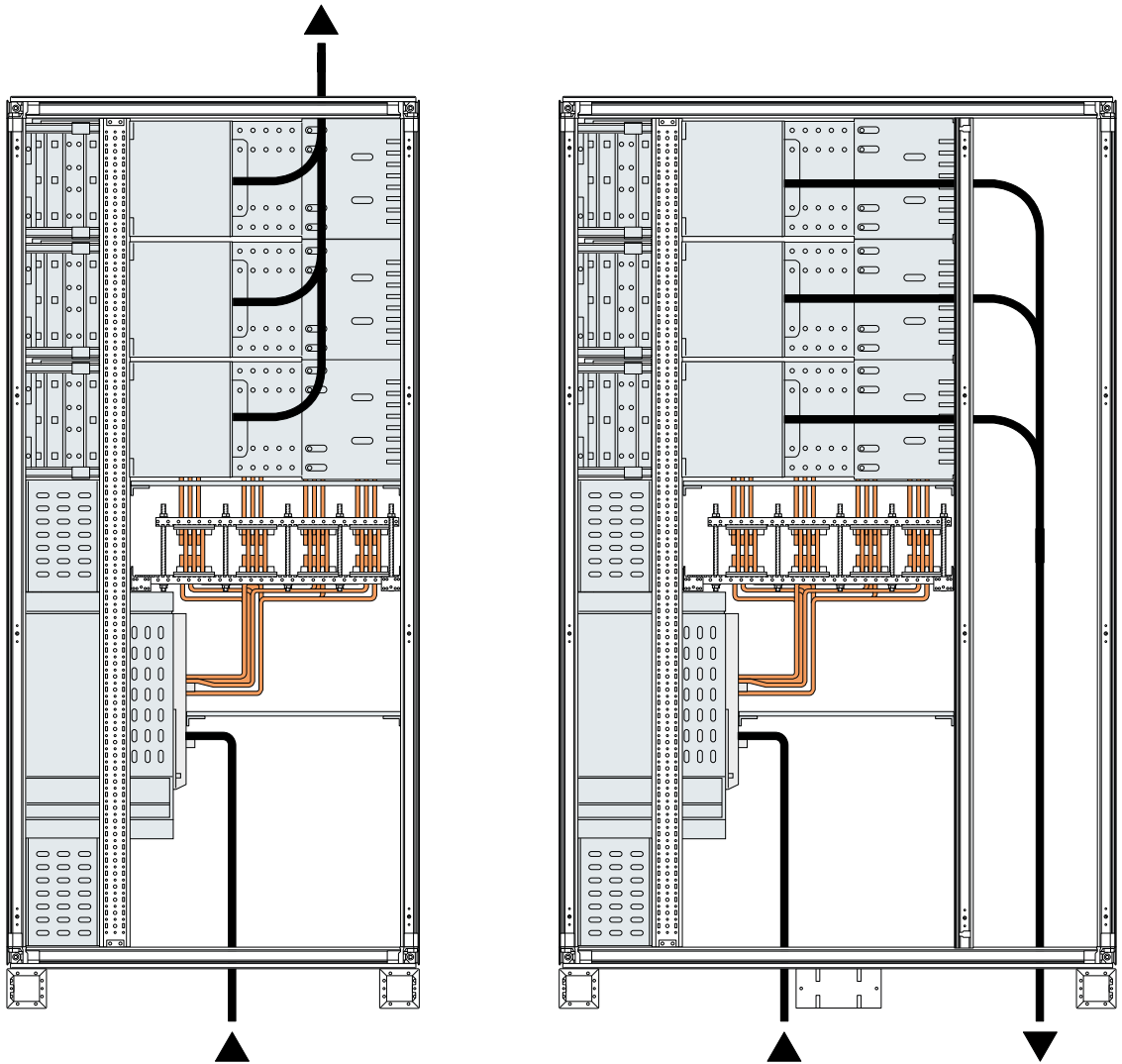


Cubicle P3 - Form 4b must be used if the bracket is used with flanged plates.  
 The bracket can only be used with minimum cubicle P1 - Form 4b with kits in Fixed versions XT1 XT2 XT3 XT4.  
 In all other cases, use the bracket with cubicle P2 - Form 4b.

# 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

<b>Company</b>	
<b>N° ident/vo</b>	
<b>Date</b>	
<b>Standard</b>	

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).

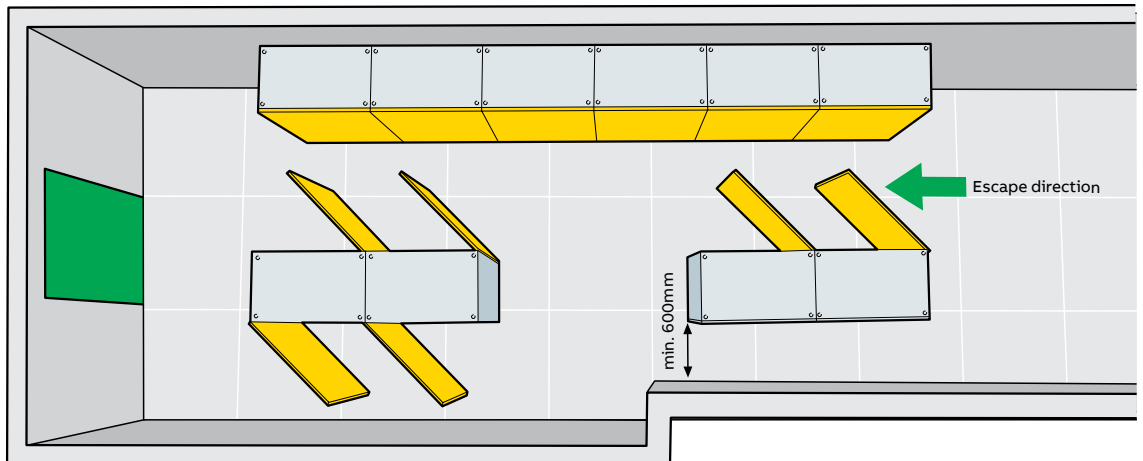
### 3. Installation and putting into service

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



Ensure door opening

## 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

Action	Check																				
Check identification mark of switchboard																					
Visually check that switchboard is clean and has not been damaged during transport																					
Visually check that seals and gaskets are undamaged																					
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 border="1"> <thead> <tr> <th>Code/Ø hole</th> <th>Nm</th> </tr> </thead> <tbody> <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> </tbody> </table>	Code/Ø hole	Nm	Steel tie rods PTRA...	15	Stainless steel tie rods PTRSXXXX	15	Hammer screws AD10XX	20	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	
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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																				
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 border="1"> <thead> <tr> <th>Ø hole</th> <th>Nm</th> </tr> </thead> <tbody> <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> </tbody> </table>	Ø hole	Nm	M6	13	M8	30	M10	60	M12	100											
Ø hole	Nm																				
M6	13																				
M8	30																				
M10	60																				
M12	100																				
Check tightening torques (Nm) Panel (paneling, kit):																					
<table border="1"> <thead> <tr> <th>Screw</th> <th>Nm</th> </tr> </thead> <tbody> <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> </tbody> </table>	Screw	Nm	KIT screws (three-lobed M6)	6	M6 screws/nuts	8.9÷9.9	Upright screws and structure crosspieces (M10)	20	External paneling screw and hinges	5											
Screw	Nm																				
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Upright screws and structure crosspieces (M10)	20																				
External paneling screw and hinges	5																				

## 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 control-gears 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

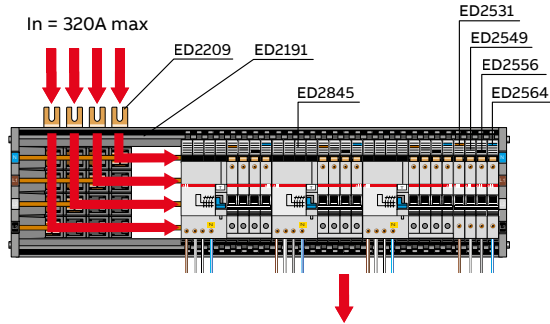
Pos.	Type of inspection	Monthly	Every 6 months	Yearly	Every 2 years
1	Make sure that identification plate is present and that circuit diagram is available			✓	
2	Check that switchboard is undamaged		✓		
3	Check mechanical connections of switchboard structure				✓
4	Visually check for mechanical, thermal 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

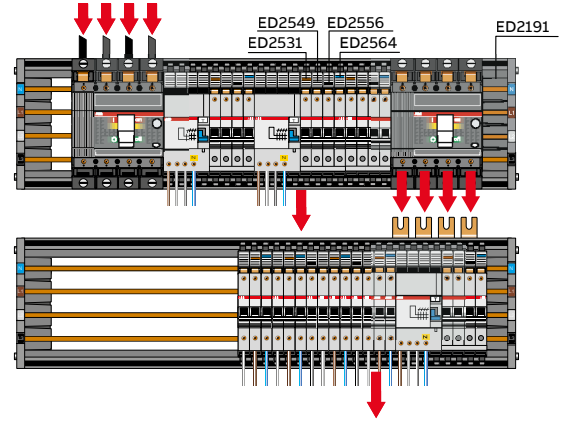
## Connection examples - Unifix H

Unifix H frame with 400A busbars 24 and 36 DIN modules

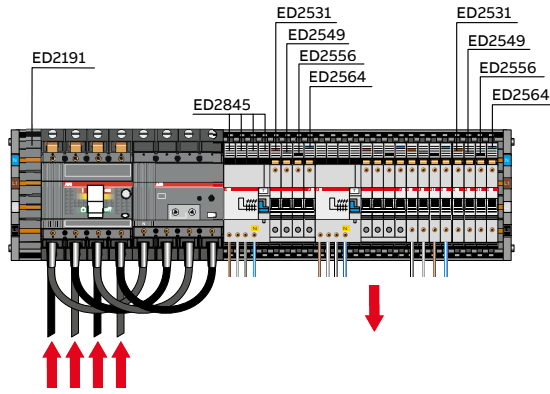
Busbars supplied from above by means of a 4P feeder module installed laterally



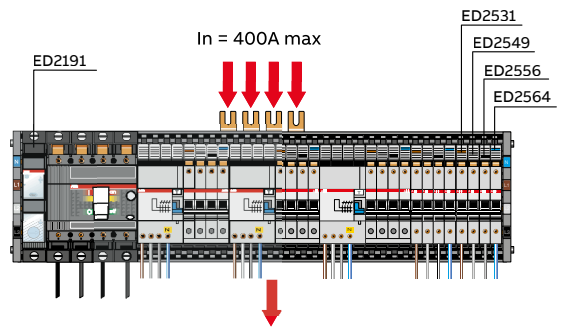
Power supply by means of circuit-breaker supplied from above



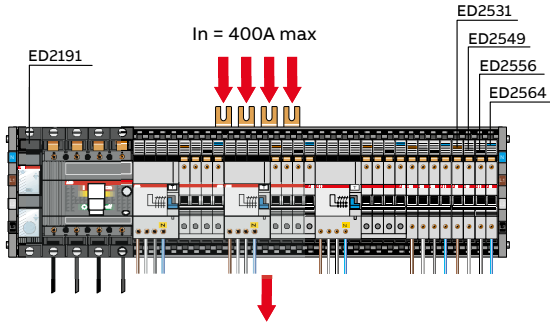
Busbars supplied from below by means of a 4P feeder module installed laterally



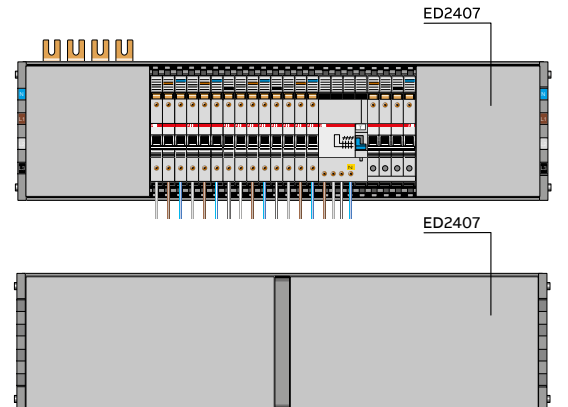
Power supply by means of circuit-breaker supplied from below



Busbars supplied from above by means of a 4P feeder module installed centrally



Covers for IP 20 protection class



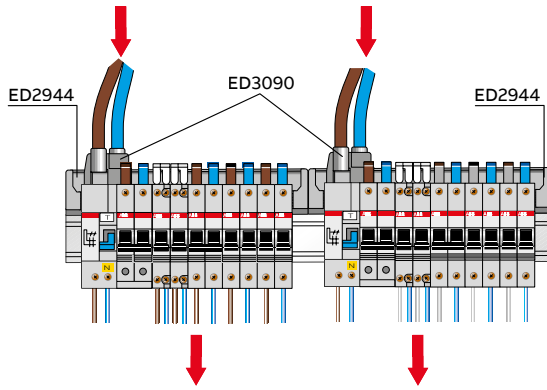


# Technical details and certifications

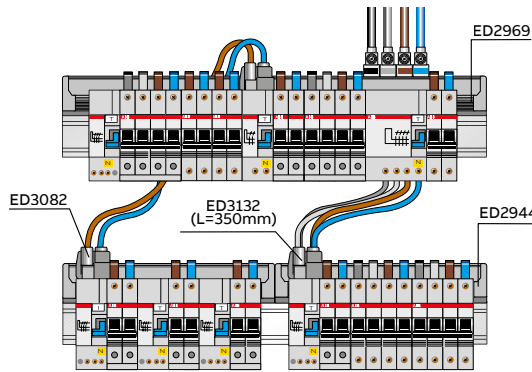
## Connection examples - Unifix L

Unifix L frame with 100A busbars  
12/18/24 DIN modules

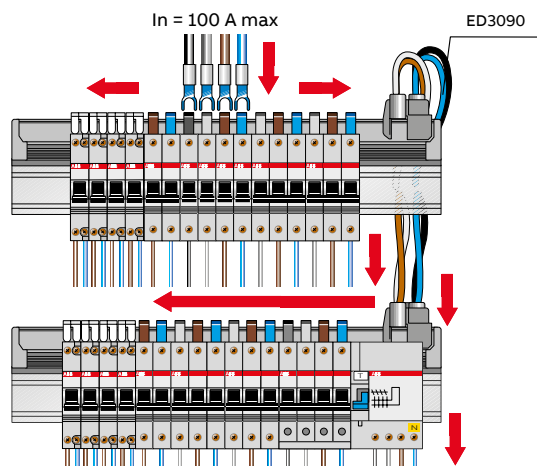
Two different single-phase circuits on a single DIN rail with 24 modules



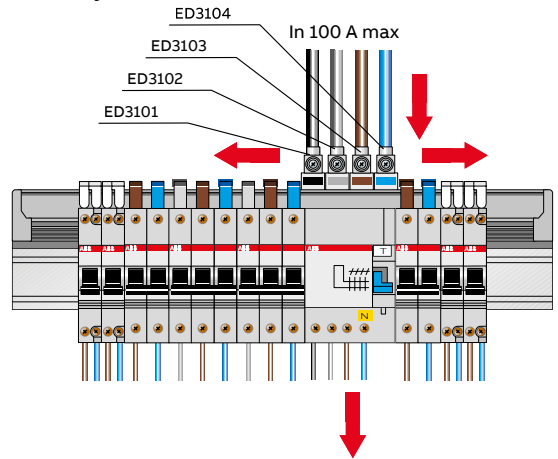
Example of main and branched power supply



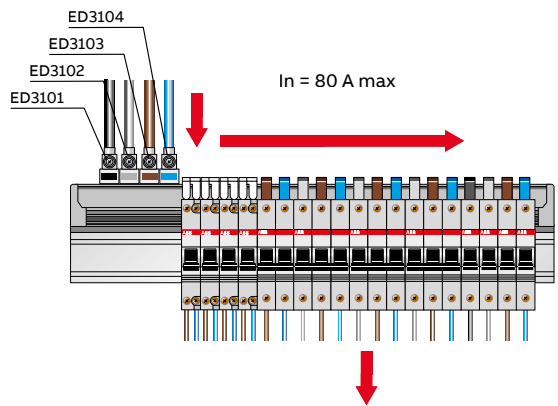
Busbars supplied by means of cable terminal under the head of the circuit-breaker's terminal and branching with parallel module



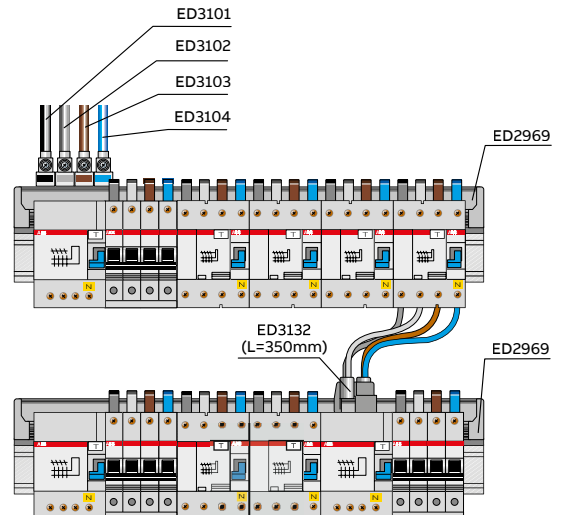
Busbars supplied by means of terminals installed centrally



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

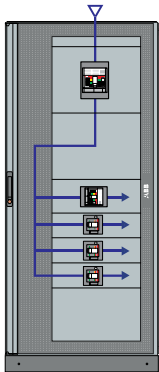


# Technical details and certifications

## 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.



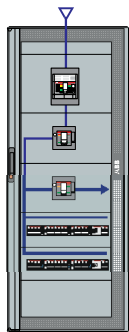
Quantity	Type	Description	Reference chapter
1	PUPM2000	No.4 galvanized sheet metal uprights H=2000mm	Structure
1	PUCM2000	No. 4 galvanized sheet metal cross-pieces W=800mm	Structure
1	PCFM0800	No. 4 galvanized sheet metal cross-pieces W/D=300mm	Structure
1	PCFM0300	No. 4 galvanized sheet metal plinth 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.



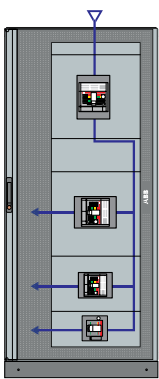
Quantity	Type	Description	Reference chapter
1	PUPM1800	No. 4 galvanized sheet metal uprights H=1800mm	Structure
1	PCFM0600	No. 4 galvanized sheet metal cross-pieces W=600mm	Structure
1	PCFM0300	No. 4 galvanized sheet metal cross-pieces W/D=300mm	Structure
1	PTBB6030	Blind Top/Bottom IP40 L=600mm d=300mm	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	PPFF1860	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.



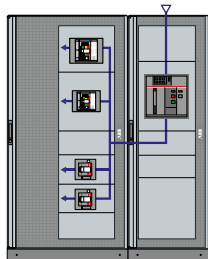
Quantity	Type	Description	Reference chapter
1	PUPM2000	No. 4 galvanized sheet metal uprights H=2000mm	Structure
1	PCFM0800	No. 4 galvanized sheet metal cross-pieces W=800mm	Structure
1	PCFM0500	No. 4 galvanized sheet metal cross-pieces W/D=500mm	Structure
1	PPAM0100	No. 4 galvanized sheet metal plinth 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	PPPF2060	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

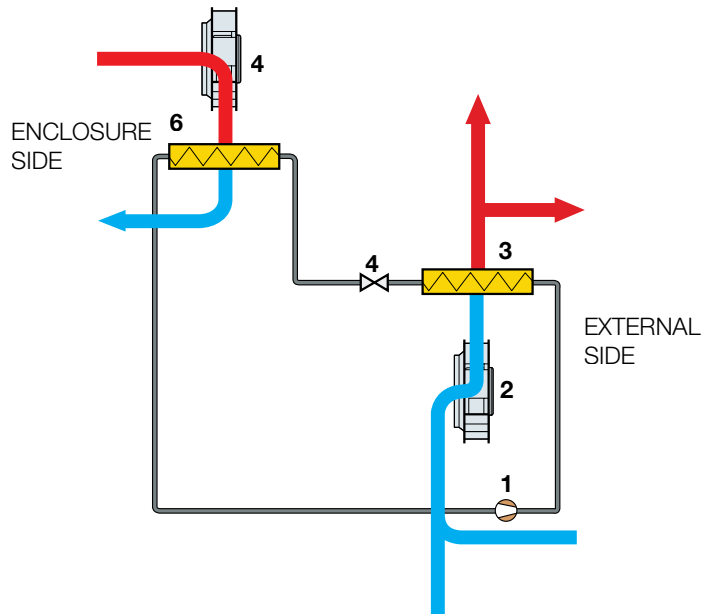
Air conditioner for mounting on wall or on door



Model		VZ1550K	VZ1850K	VZ1400K	VZ2000K
Standard electrical power supply	V~(single-phase)	230	230	230	230
Frequency	Hz	50	60	50	60
Refrigerating yield	W	605	670	810	900
Total power consumption	W	330	360	400	450
Absorbed current	on inrush	A	8	12,5	21
	operating	A	2	2,5	4
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

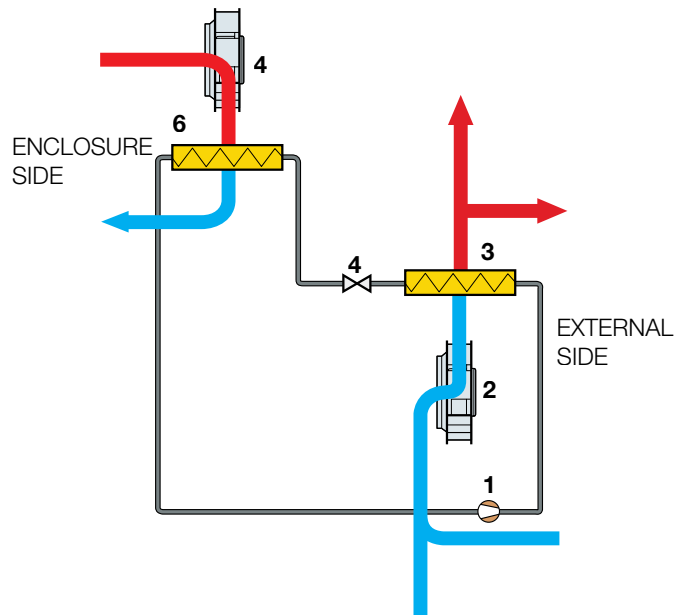
#### Air conditioner for mounting on roof



Model		VZ8501K	VZ1401K
Standard electrical power supply	V~(monofase)	230	230
Frequency	Hz	50	60
Refrigerating yield	W	810	900
Total power consumption	W	400	450
Absorbed current	on inrush	A	12,5
	operating	A	2,5
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

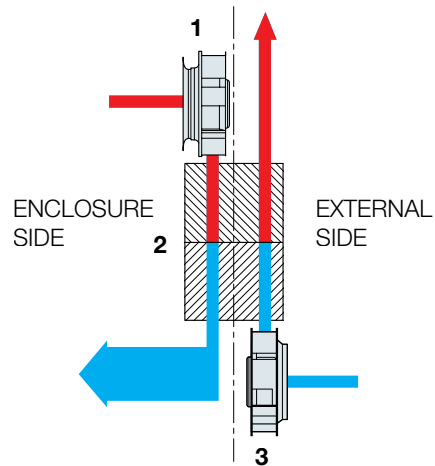
#### Air conditioner for mounting on roof



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



Characteristic	U.m.	EN1105K	EN2105K	EN1150K	EN2150K	EN1204K
Capacity air	m <sup>3</sup> /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 <sup>3</sup> /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

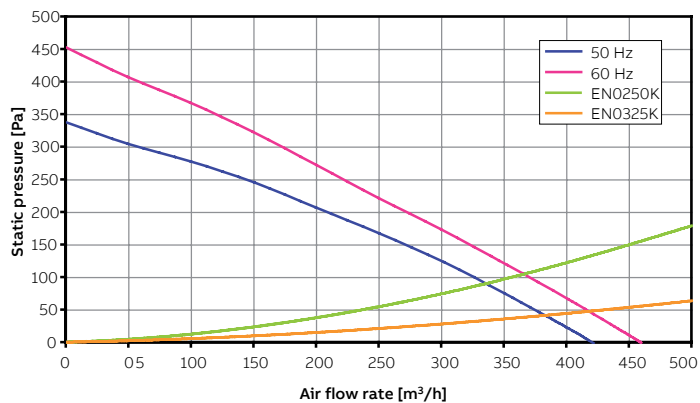
#### Ventilation towers



Characteristic	U.m.	EN0480K	EN0482K	EN0484K	EN0485K
Capacity air	m <sup>3</sup> /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





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## **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**

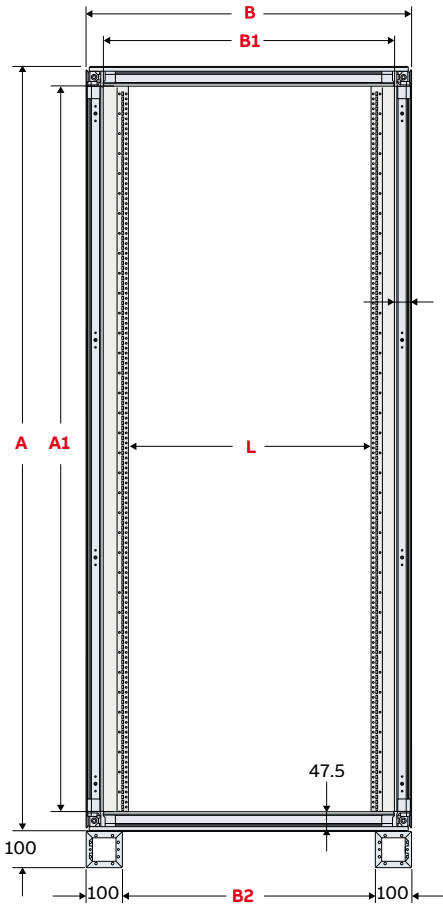
**8-27 Ventilation/Conditioning**

**8-28 Air conditioner**

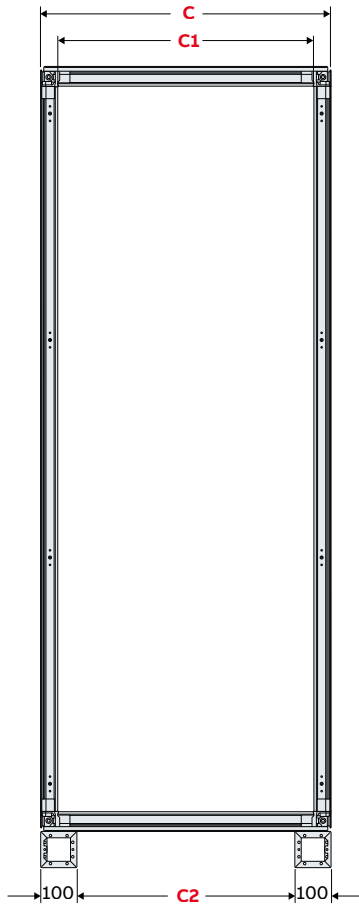
# Overall dimensions

## Frame

Front



Side



Height measurements (mm)

A	A1
1913	1804
2113	2004

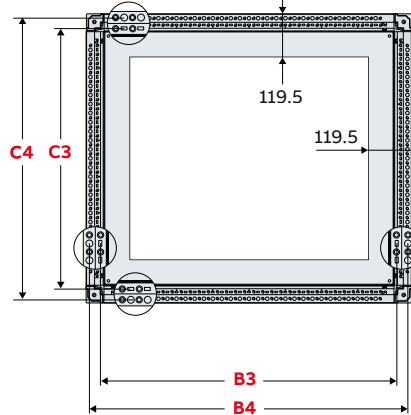
Width measurements (mm)

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

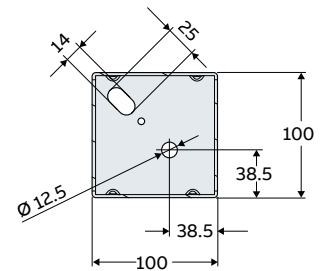
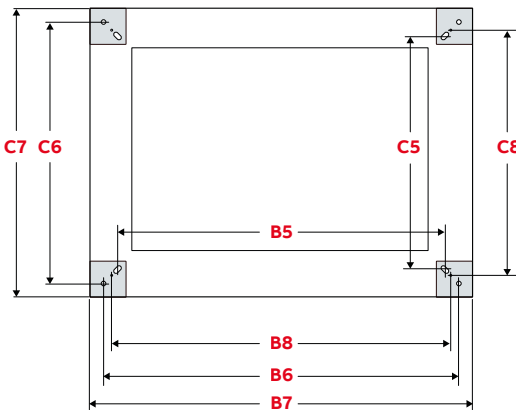
Depth measurements (mm)

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

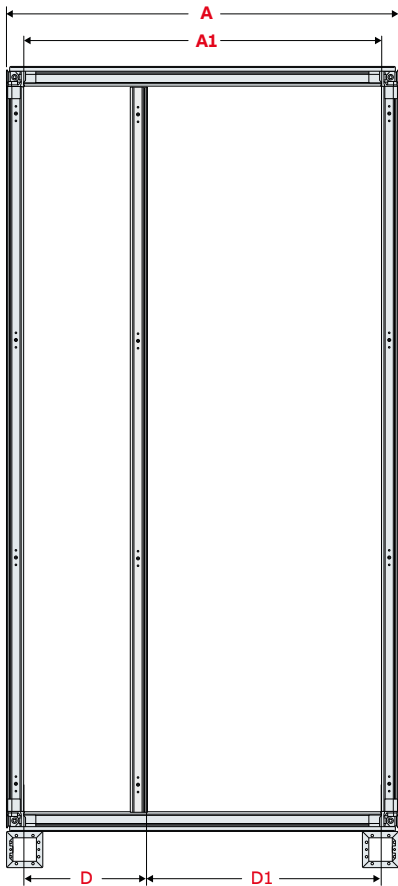


The measurements are given in millimeters

## Overall dimensions

### Internal cable compartment

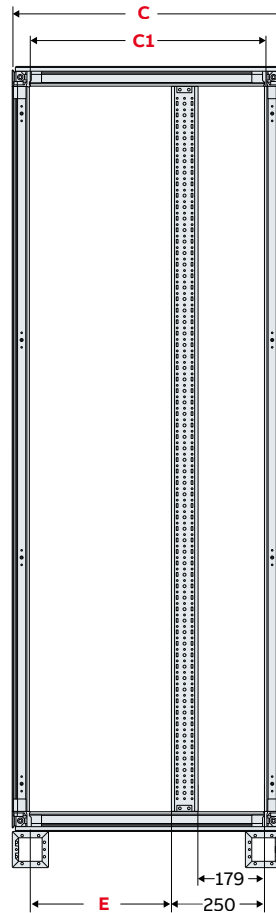
Front



A	A1	D	D1
699	604	200	404
899	804	200	604
		400	404
1099	1004	200	804
		400	604

### Intermediate upright

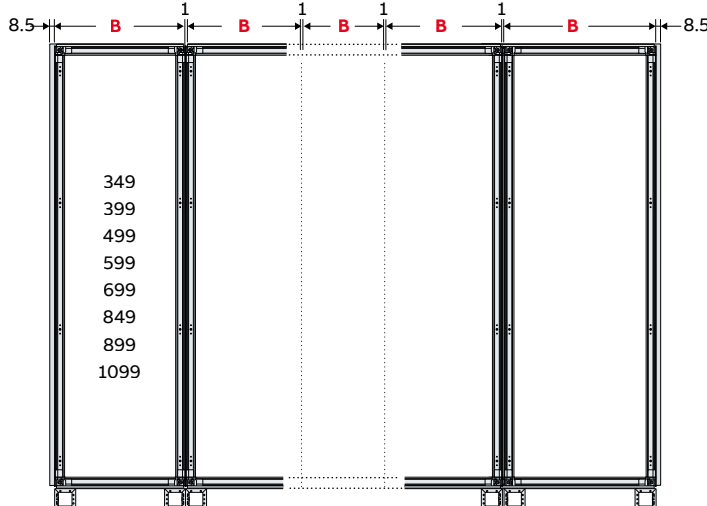
Side



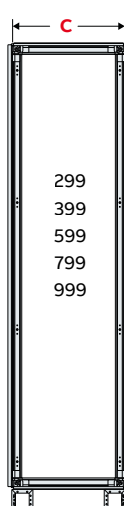
C	C1	E
599	504	254
799	704	454
999	904	654
1349	1254	1004

### Overall dimensions for several adjacent structures

Front



Side

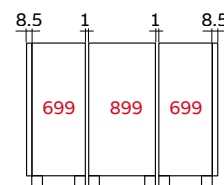


#### Total width calculation

- 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

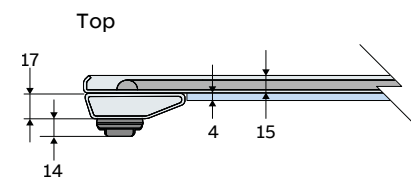
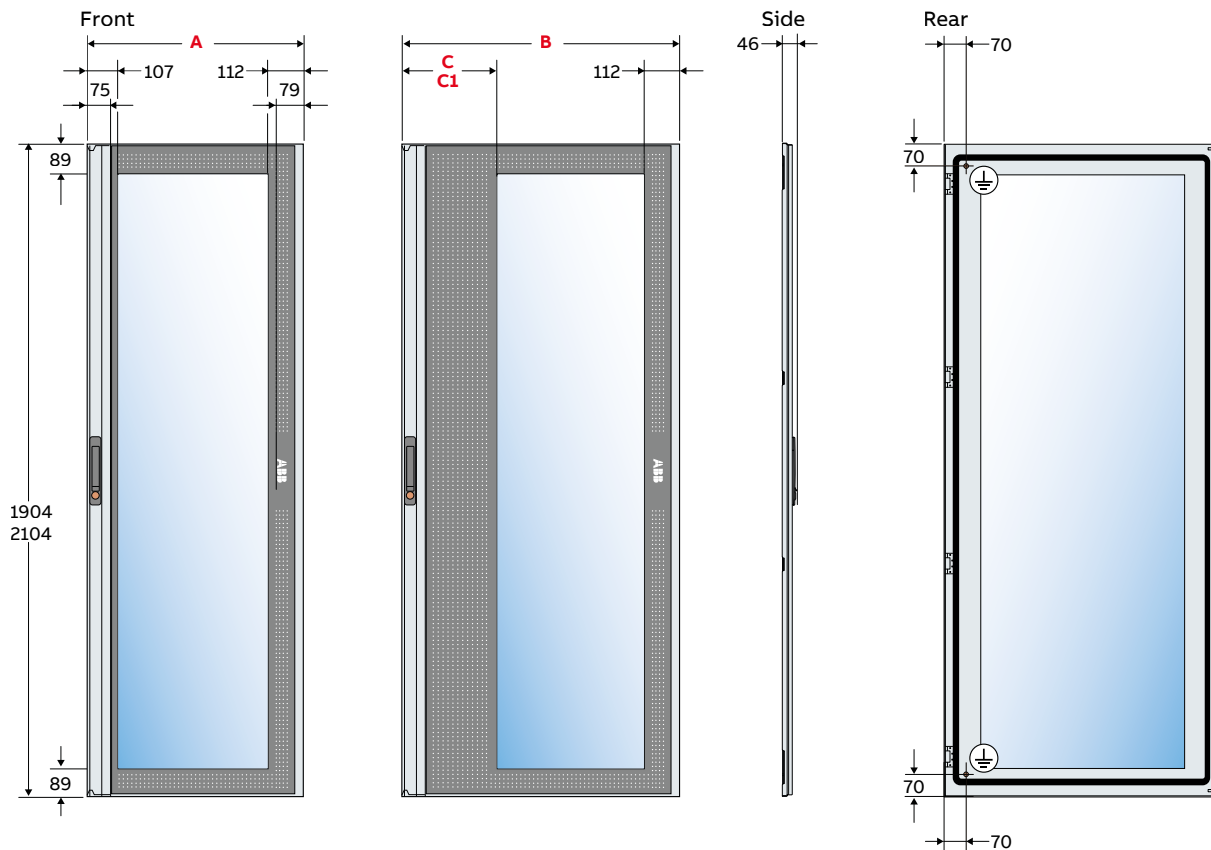
- C With door**  
(structure depth) + 48mm (rear cover space and door including handle)
- C With finishing profile**  
(structure depth) + 17mm (rear cover space and finishing profile)

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

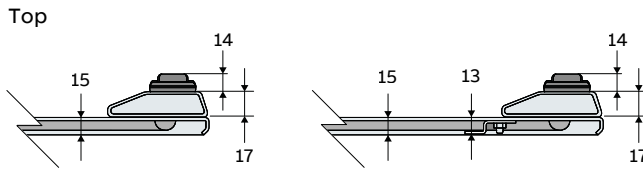
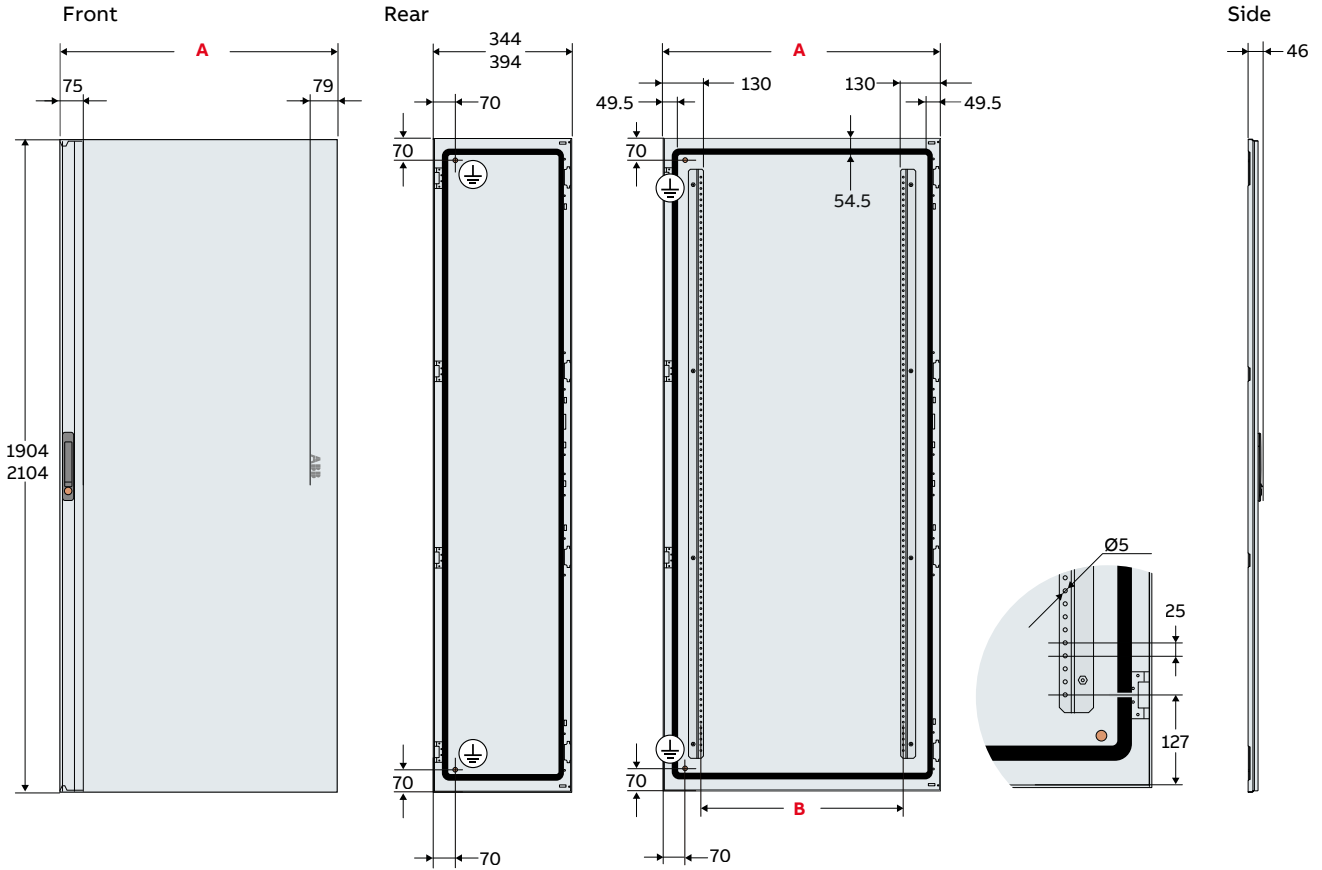
The measurements are given in millimeters



# Overall dimensions

## External covers

Blind doors



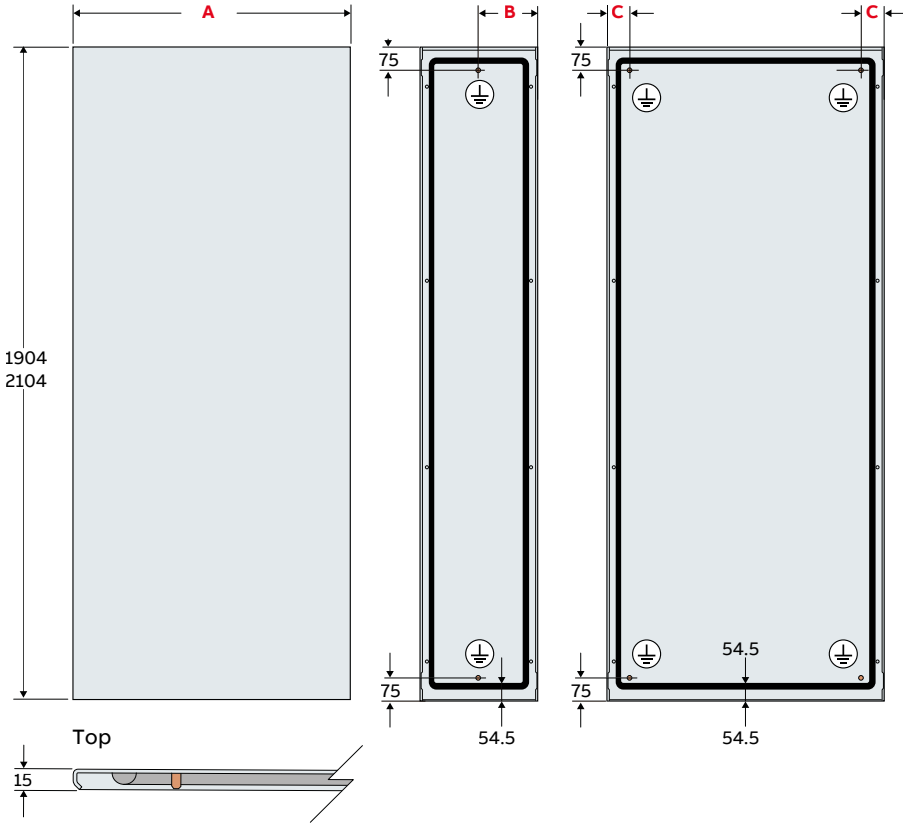
<b>A</b>	<b>B</b>
494	250
594	350
694	450
844	600
894	650
1094	850

The measurements are given in millimeters

## Overall dimensions

### External covers

Rear, side panels



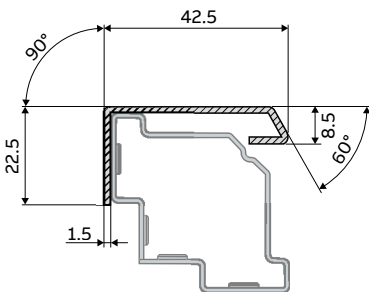
Rear panels

A	B	C
389	194.5	
489	244.5	
689		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

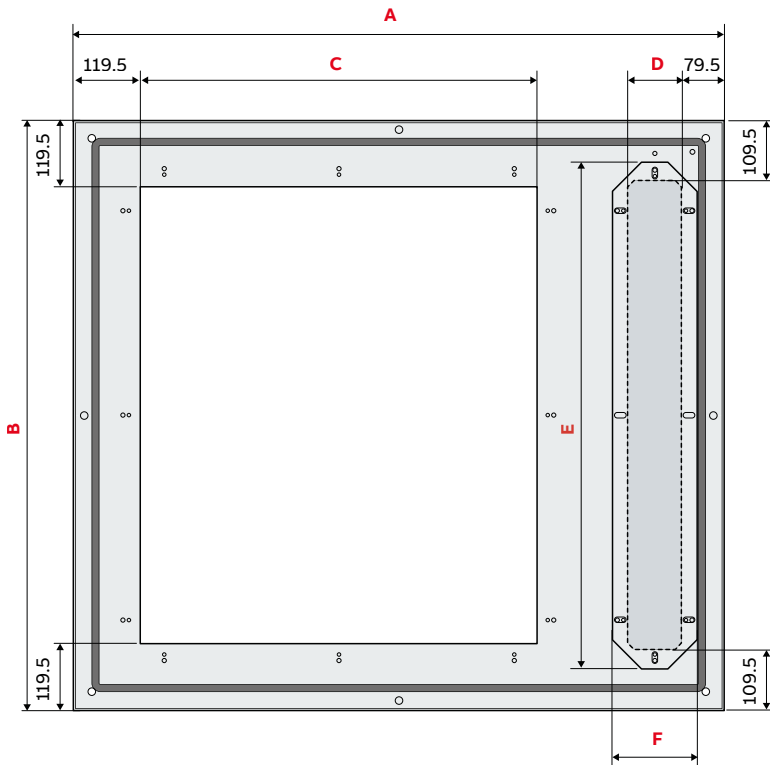


The measurements are given in millimeters

## Overall dimensions

### External covers

Open bottom for structures with internal cable compartment



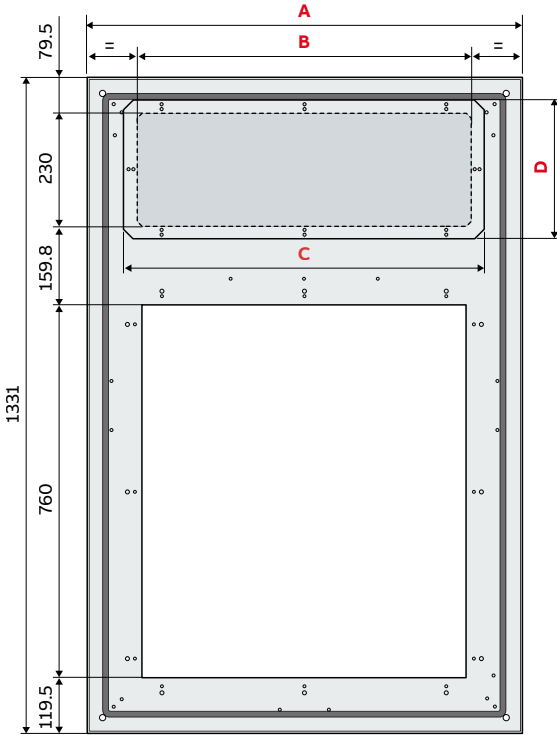
Structure W (mm)	D (mm)	Cable compartment W (mm)	A	B	C	D	E	F
			(mm)	(mm)	(mm)	(mm)	(mm)	(mm)
800	300	200	881	381	460	89	240	140
	500		881	581			440	
	700		881	781			640	
	900		881	981			840	
1000	300	400	1081	381	660	89	240	340
	500		1081	581			440	
	700		1081	781			640	
	900		1081	981			840	

The measurements are given in millimeters

## Overall dimensions

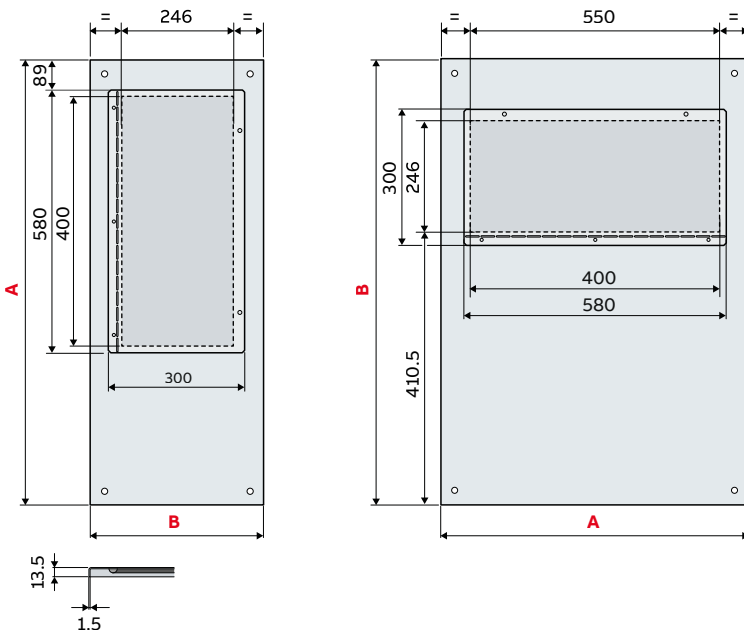
### External covers

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

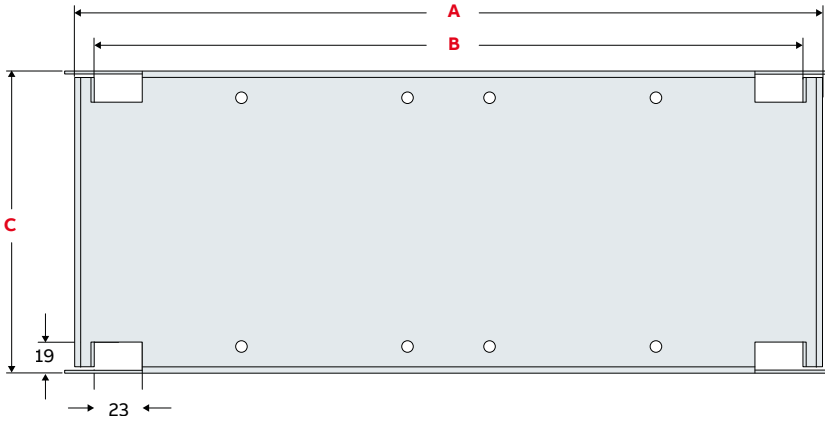
The measurements are given in millimeters

# Overall dimensions

## Internal kit

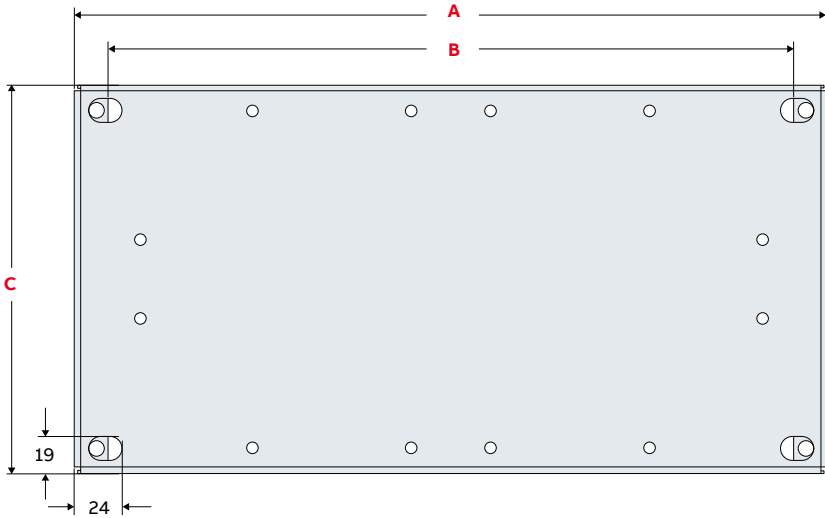
Mounting Plates

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	

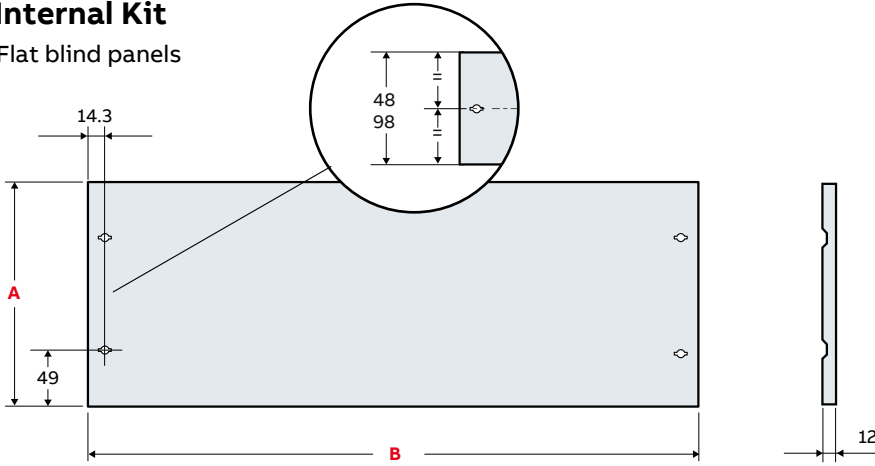
A	B	C
381	347	396
581	547	
781	747	
981	947	
381	347	446
581	547	
781	747	
981	947	
381	347	496
581	547	
781	747	
981	947	
381	347	596
581	547	
781	747	
981	947	

The measurements are given in millimeters

# Overall dimensions

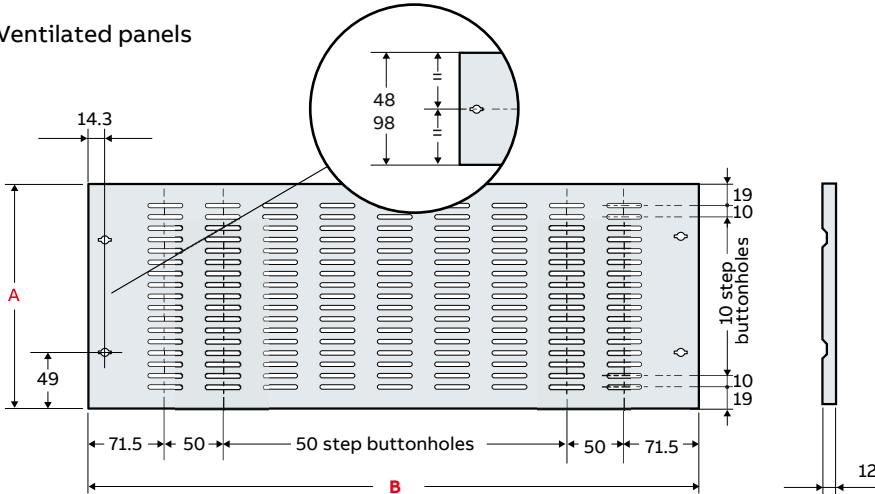
## Internal Kit

Flat blind panels



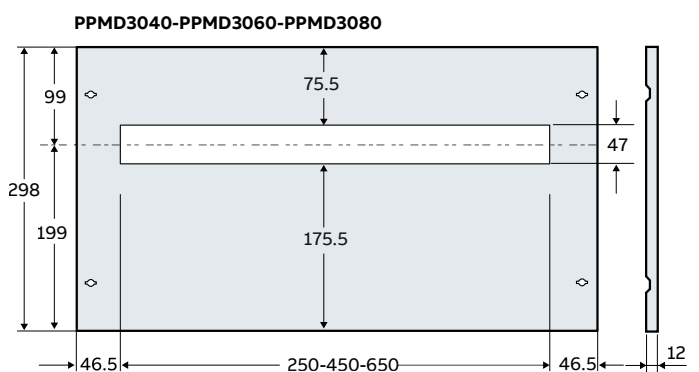
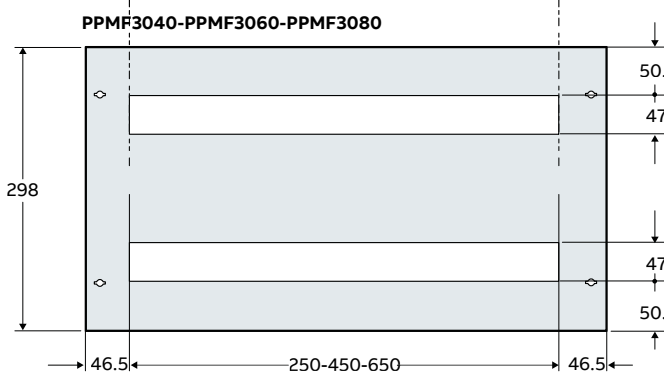
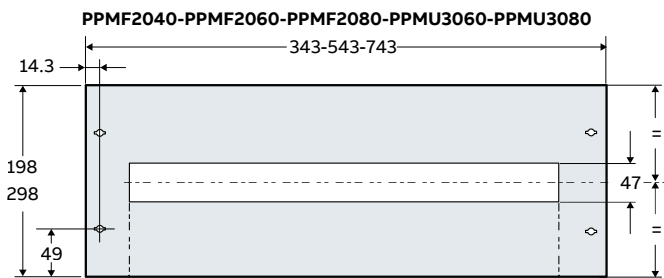
A	B
48	343
98	543
148	743
198	943
248	
298	
398	
498	
598	

Ventilated panels



A	B
48	343
98	543
148	743
198	943
248	
298	
398	
498	
598	

Panels Modular DIN Rail

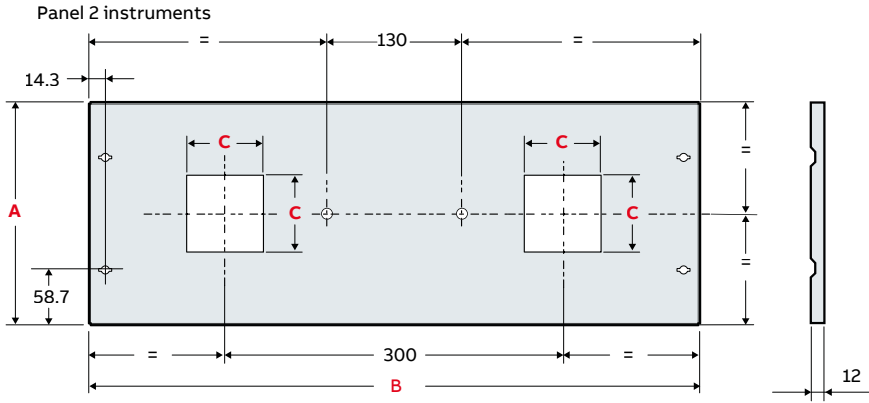


The measurements are given in millimeters

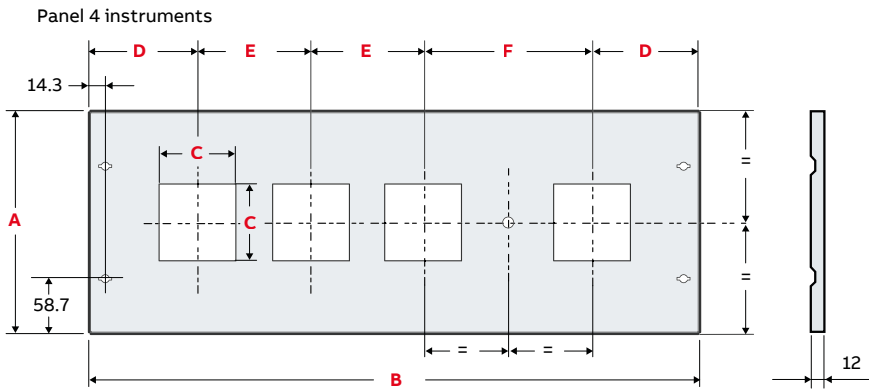
# Overall dimensions

## Internal kit

Panels for square measuring instruments

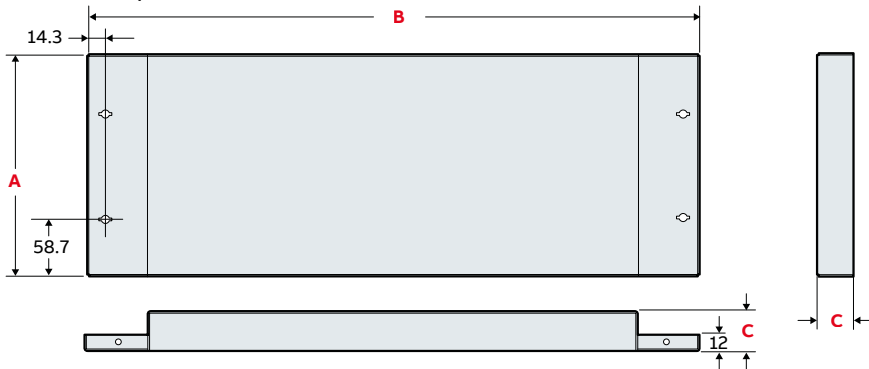


A	B	C
198	543	68
		92
198	743	68
		92



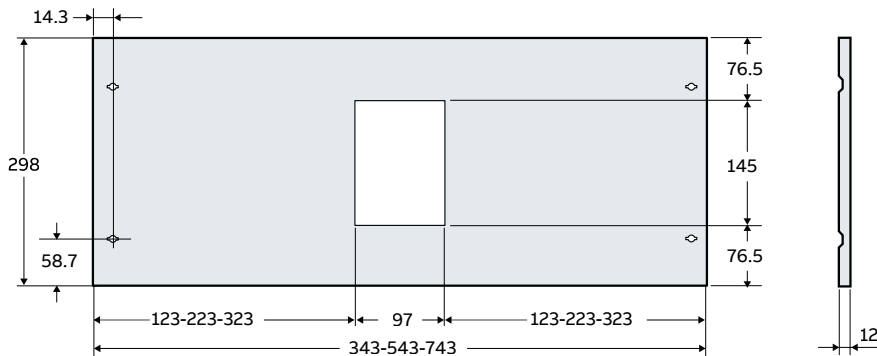
A	B	C	D	E	F
198	543	68	96.5	100	150
198	743	68	196.5	100	150
		92	121.5	150	200

## 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

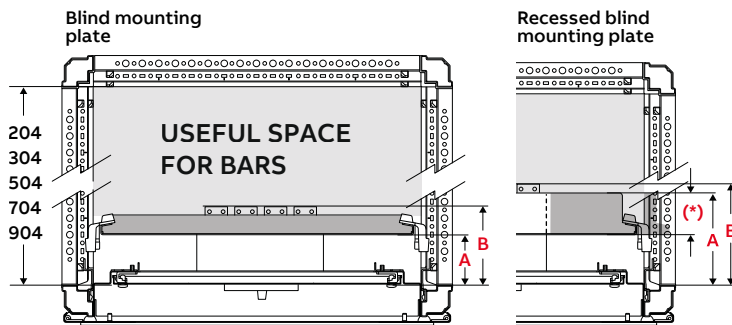
The measurements are given in millimeters

## Overall dimensions

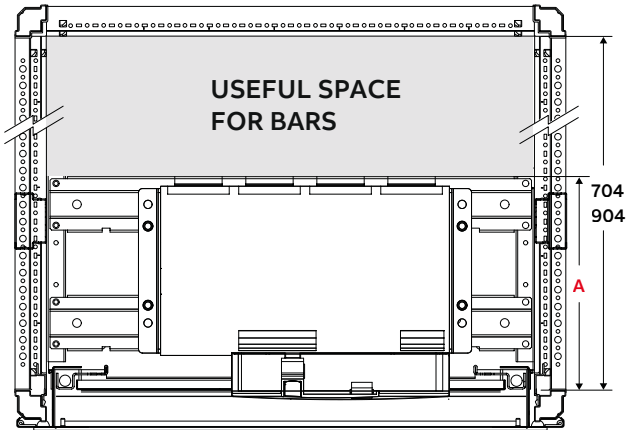
### Internal kit

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					
	Front (A)	Rear (B)	Front (A)	Rear (B)	Front (A)	Rear (B)	Front (A)	Rear (B)	Front (A)	Rear (B)	Front (A)	Rear (B)				
<b>Circuit-breakers</b>	<b>Depth circuit breaker A (mm)</b>															
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 <sup>(1)</sup>	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 <sup>(2)</sup>	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 <sup>(1)</sup>	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 <sup>(2)</sup>	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	251	297	251	297		
E1.2	251	300	251	300												

### Emax 2

Accessorized or not accessorized, only rear terminals.

Execution	F	W
<b>Circuit-breakers</b>	<b>Depth circuit breaker A (mm)</b>	
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	290 *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		

<sup>(1)</sup> Tmax T5 400A <sup>(2)</sup> Tmax T5 630A \*Breakers with recessed mounting plate.

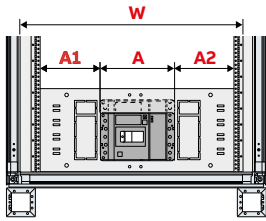
The measurements are given in millimeters



## 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 <sup>(1)</sup>			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 <sup>(2)</sup>	F/EF		385	-	40	140	240
XT6 I <sup>(1)</sup>			390	-	37,5	137,5	237,5

<sup>(1)</sup> The overall size of the interlock kit is considered.

<sup>(2)</sup> Dimensions without terminal cover.

#### Note

The table does not guarantee the actual existence of the kit for the various types of terminals, but only indicates the space available inside the switchboard.

HTC = high terminal cover

LTC = low terminal cover

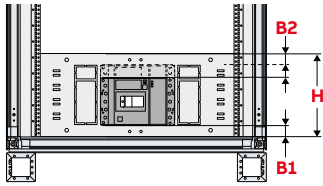
EF = extended front

ES = extended spread

## 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		4 P	
		B1	B2	B1	B2
<b>Tmax XT5 400 A - Front/Rear terminals</b>					
200	F <sup>(2)</sup>	28,25	28,25	-	-
	F - RHD <sup>(2)</sup>	28,25	28,25	-	-
	F - MO <sup>(1)</sup>	26,75	26,75	-	-
	P	28,25	28,25	-	-
	P - RHD	28,25	28,25	-	-
	P - MO <sup>(1)</sup>	26,75	26,75	-	-
250	F <sup>(2)</sup>	30	76,5	30	30
	F - RC	-	-	30	30
	F - RHD <sup>(2)</sup>	30	76,5	30	30
	F - MO <sup>(1)</sup>	28,5	75	28,5	28,5
	P	30	76,5	30	30
	P - RHD	30	76,5	30	30
	P - MO <sup>(1)</sup>	28,5	75	28,5	28,5
300	W	42,5	75,3	-	-
	W - RHD	42,5	75,3	-	-
	W - MO <sup>(1)</sup>	41	73,8	-	-
350	W	67,5	114	67,5	53,8
	W - RHD	67,5	114	67,5	53,8
	W - MO <sup>(1)</sup>	66	112,5	66	52,3
600 *	F - I	48	48	48	48
	F - I-MO <sup>(1)</sup>	46,5	46,5	46,5	46,5
	P - I (1)	46,5	46,5	46,5	46,5
	P - I-MO <sup>(1)</sup>	46,5	46,5	46,5	46,5
	W - I <sup>(1)</sup>	46,5	46,5	46,5	46,5
	W - I-MO <sup>(1)</sup>	46,5	46,5	46,5	46,5
<b>Tmax XT5 630 A - Front/Rear terminals</b>					
200	F <sup>(2)</sup>	28,25	28,25	-	-
	F - RHD <sup>(2)</sup>	28,25	28,25	-	-
	F - MO <sup>(1)</sup>	26,75	26,75	-	-
250	F <sup>(2)</sup>	30	76,5	30	30
	F - RC	-	-	30	30
	F - RHD <sup>(2)</sup>	30	76,5	30	30
	F - MO <sup>(1)</sup>	28,5	75	28,5	28,5
	P	30	76,5	30	30
	P - MO <sup>(1)</sup>	28,5	76,5	28,5	28,5
600 *	F - I	48	48	48	48
	F - I-MO <sup>(1)</sup>	46,5	46,5	46,5	46,5
	P - I <sup>(1)</sup>	46,5	46,5	46,5	46,5
	P - I-MO <sup>(1)</sup>	46,5	46,5	46,5	46,5
<b>Tmax XT6 - Front/Rear terminals</b>					
300	F	43	43	-	-
	F - RHD	43	43	-	-
	F - MO <sup>(1)</sup>	41,5	41,5	-	-
350	F	33	103	33	33
	F - RHD	33	103	33	33
	F - MO <sup>(1)</sup>	31,5	101,5	31,5	31,5
	W <sup>(2)</sup>	41	41	-	-
	W - RHD <sup>(2)</sup>	41	41	-	-
	W - MO (1) <sup>(2)</sup>	39,5	39,5	-	-
500	W <sup>(2)</sup>	81	151	81	81
	W - RHD <sup>(2)</sup>	81	151	81	81
	W - MO (1) <sup>(2)</sup>	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) <sup>(2)</sup>	10	10	10	10
	W - I-MO (1) <sup>(2)</sup>	10	10	10	10

\*The overall size of the interlock kit is considered.

<sup>(1)</sup> Kit with recessed mounting plate.

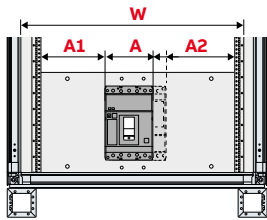
<sup>(2)</sup> Not compatible with high terminal covers. Front only in form 1.

The measurements are given in millimeters

# Overall dimensions

## Internal kit

### Available space vertical circuit-breaker / frame



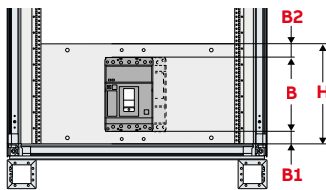
Device	Terminal	N° Poles	Circuit-breaker footprint A (mm)	Available space Circuit-Breaker / Frame (mm)							
				W = 400		W = 600		W = 800		W = 1000	
				A1	A2	A1	A2	A1	A2	A1	A2
XT5 F/P	R/F/EF	3	139,5	86	39,5	186	139,5	286	239,5	386	339,5
XT5 F/P	R/F/EF	4	186	39,5	39,5	139,5	139,5	239,5	239,5	339,5	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 does not guarantee the actual existence of the kit for the various types of terminals, but only indicates the space available inside the switchboard.

### Available space vertical circuit-breaker / Edge mounting plate



Device	Terminal	Cover	Circuit-breaker footprint B (mm)	Available space Circuit-Breaker / Edge mounting plate (mm)					
				Blind mounting plate			Recessed mounting plate		
				H = 350 B1 = B2	H = 400 B1 = B2	H = 450 B1 = B2	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 does not guarantee the actual existence of the kit for the various types of terminals, but only indicates the space available inside the switchboard.

HTC = high terminal cover

LTC = low terminal cover

EF = extended front

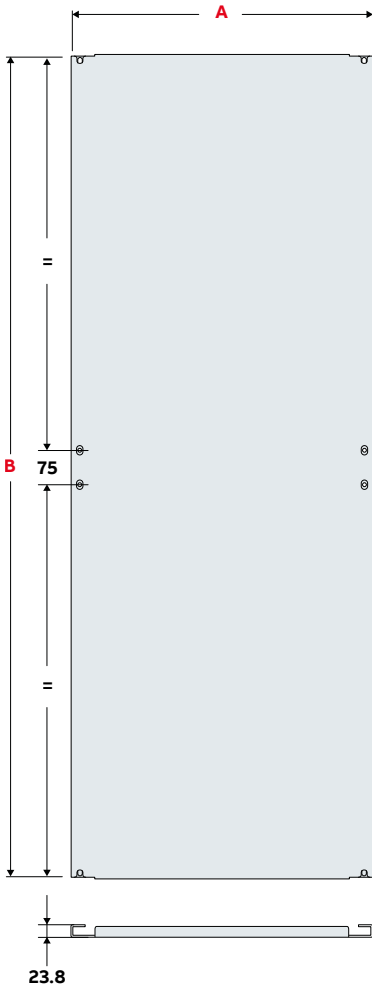
ES = extended spread

The measurements are given in millimeters

## Overall dimensions

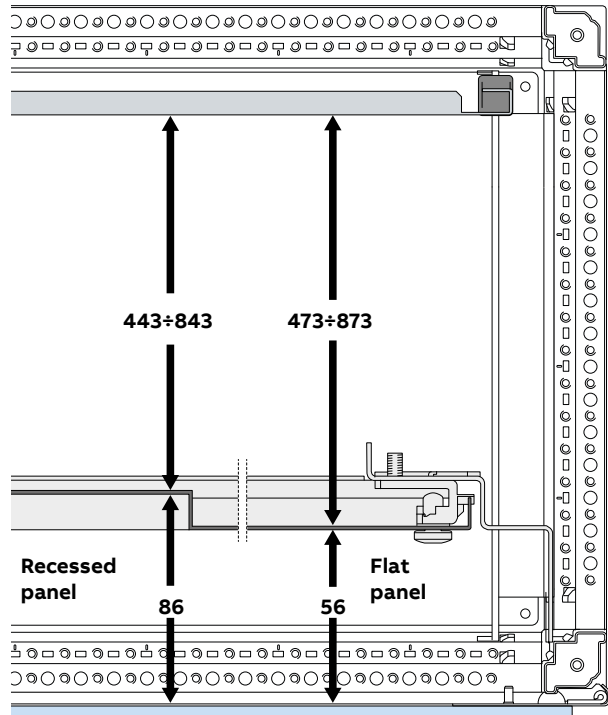
### Internal kit

#### Blind mounting plates total height

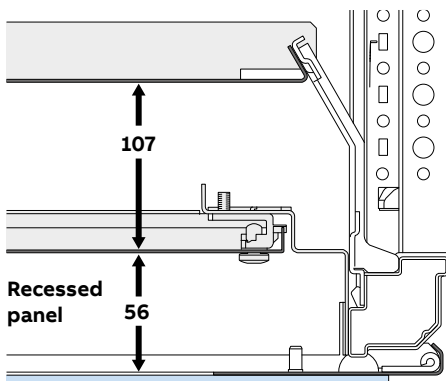


A	B
394	1598
594	
794	
394	1798
594	
794	
394	1998
594	
794	

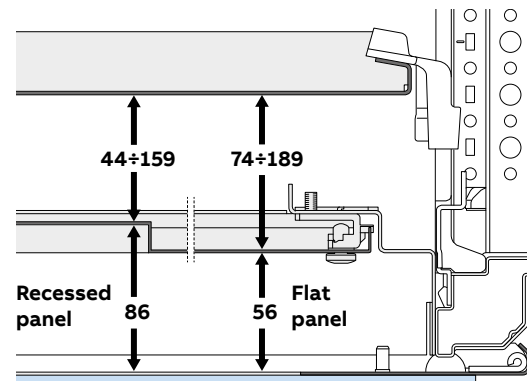
#### Maximum retreat



#### Blind mountin plate H=150mm



#### Blind mountin plate H≥200mm



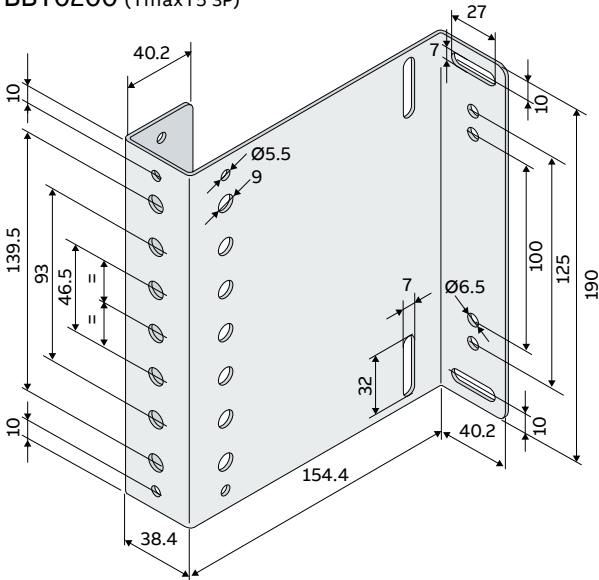
The measurements are given in millimeters

## Overall dimensions

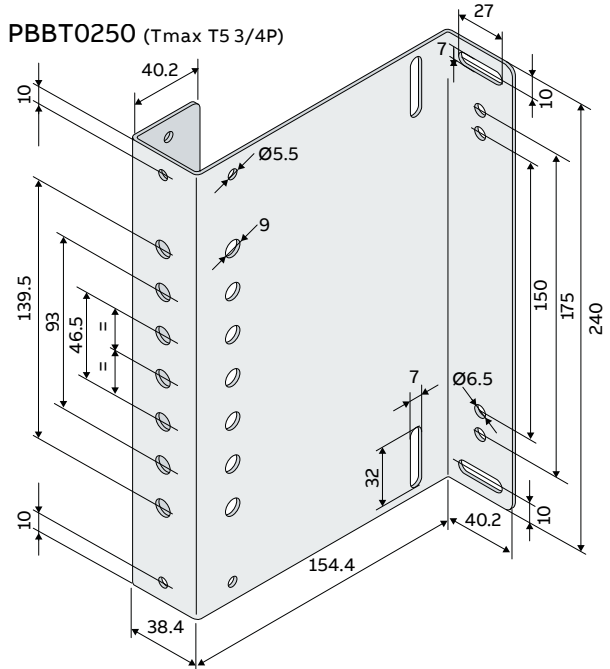
### Internal kit

Brackets for fastening busbar or flexibar connections for horizontal moulded-case circuit-breakers

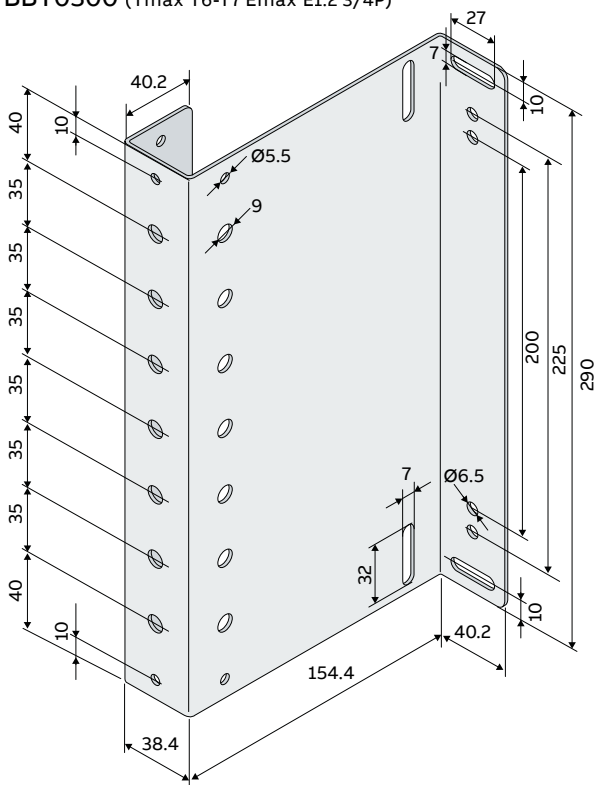
PBBT0200 (Tmax T5 3P)



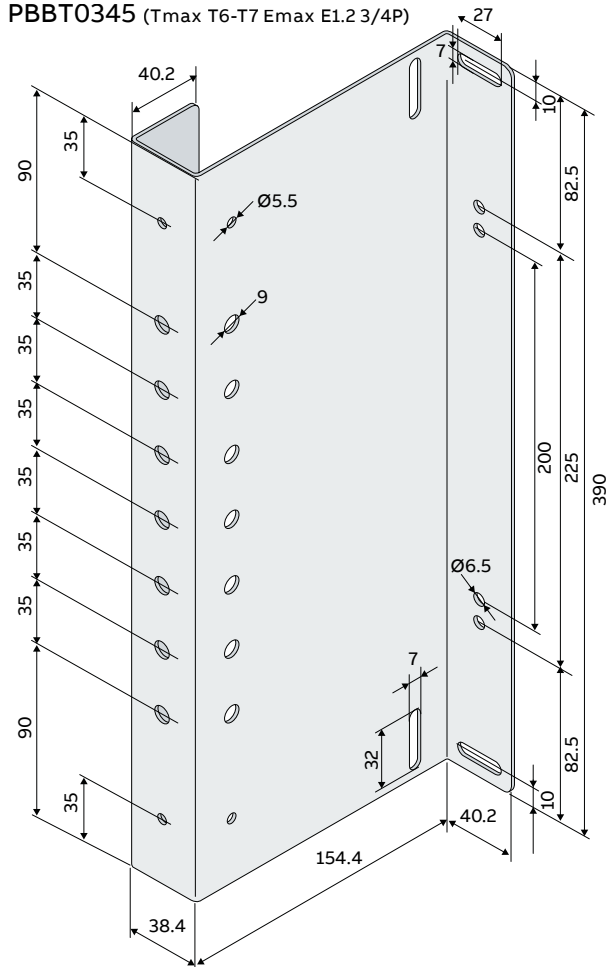
PBBT0250 (Tmax T5 3/4P)



PBBT0300 (Tmax T6-T7 Emax E1.2 3/4P)



PBBT0345 (Tmax T6-T7 Emax E1.2 3/4P)



The measurements are given in millimeters



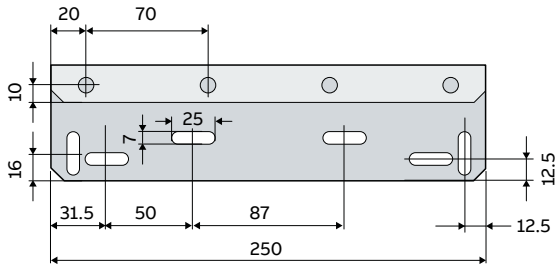
## Overall dimensions

### Internal kit

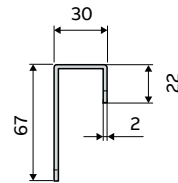
Bracket for anchoring vertical Emax and Tmax T7 circuit breaker

**PBBE0712** (Tmax T6-T7 Emax E1.2 3/4P)

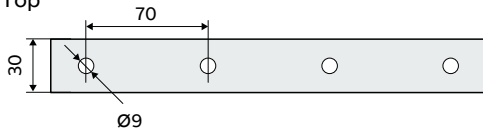
Front



Fianco

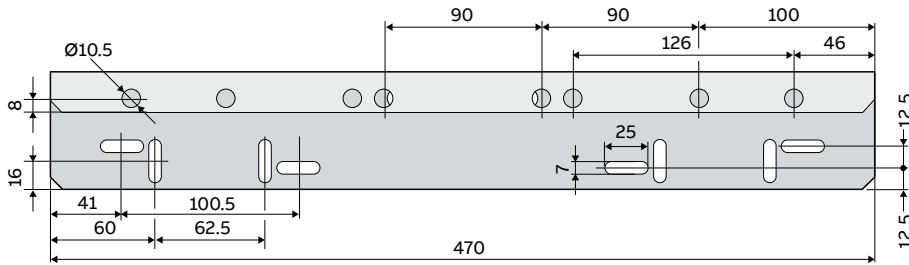


Top

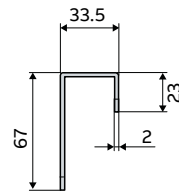


**PBBE2242** (Emax E2.2 - E4.2 3/4P)

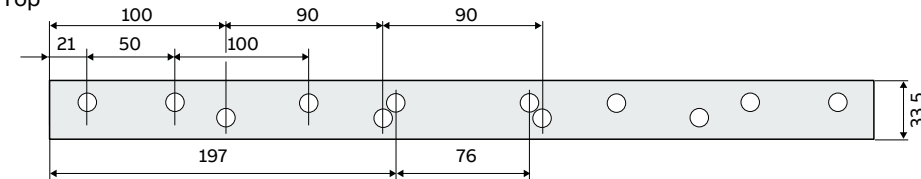
Front



Side

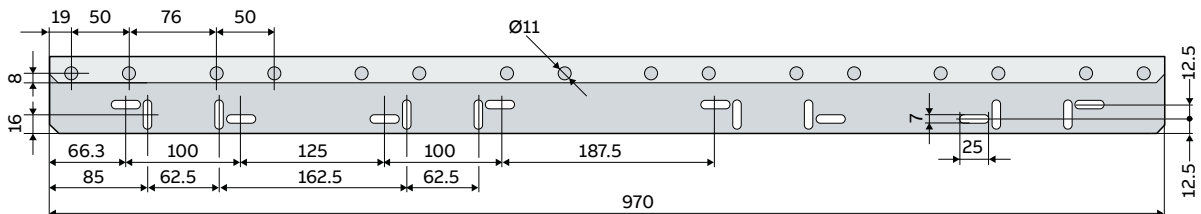


Top

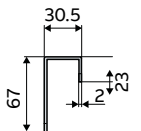


**PBBE0062** (Emax 6.2 3/4P)

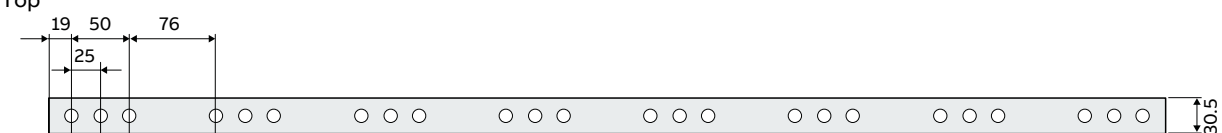
Front



Side



Top



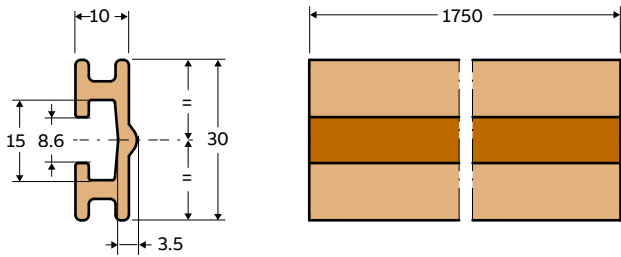
The measurements are given in millimeters

## Overall dimensions

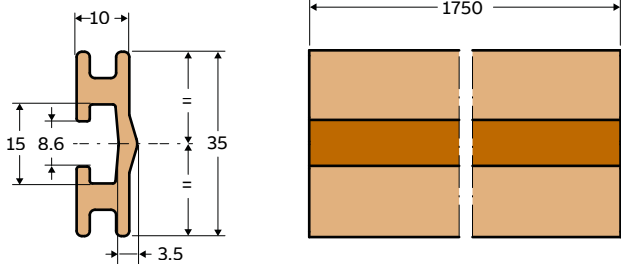
### Main distribution systems

Shaped profile busbars

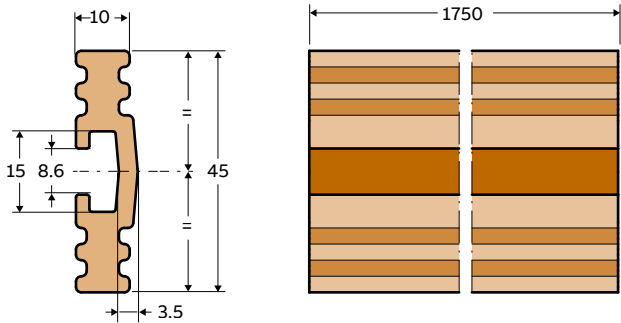
**PBSC0400**  
In 400A



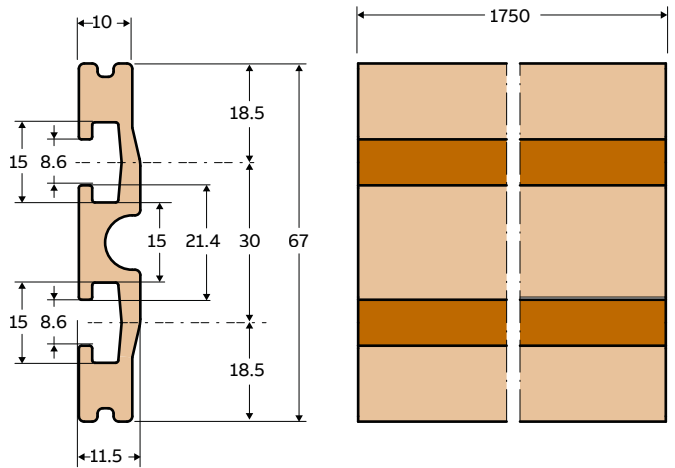
**PBSC0630**  
In 630A



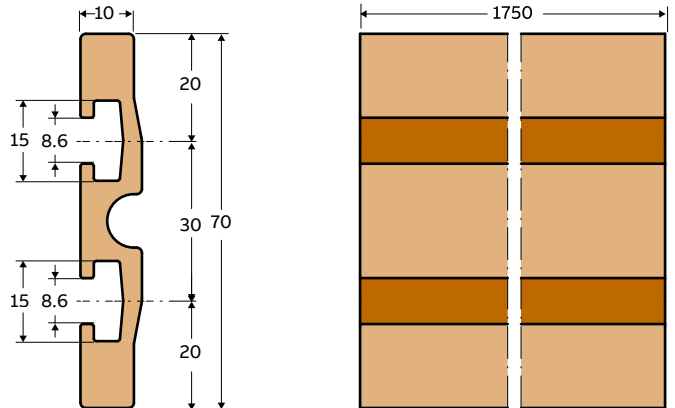
**PBSC0800**  
In 800A



**PBSC1000**  
In 1000A



**PBSC1250**  
In 1250A





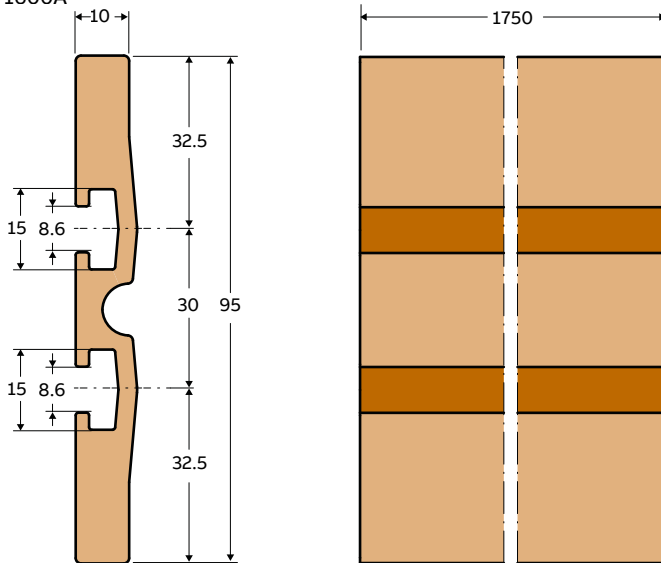
## Overall dimensions

### Main distribution systems

Shaped profile busbars

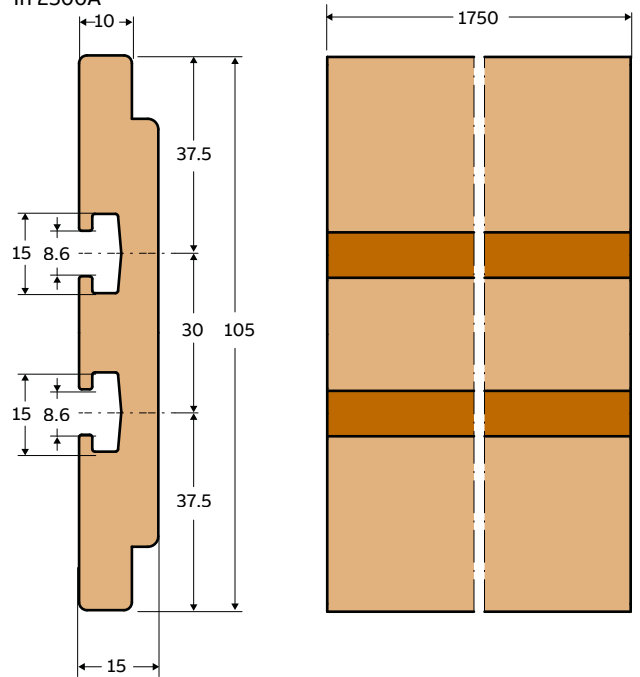
#### PBSC1600

In 1600A



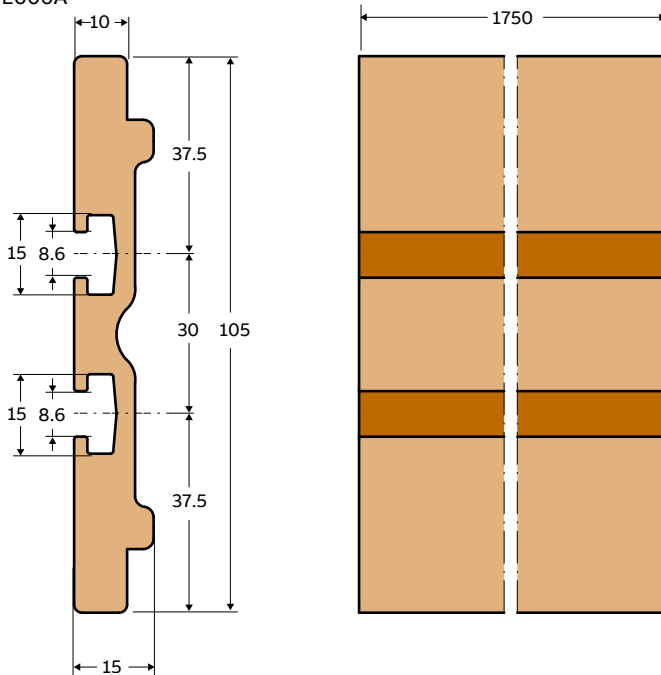
#### PBSC2500

In 2500A



#### PBSC2000

In 2000A

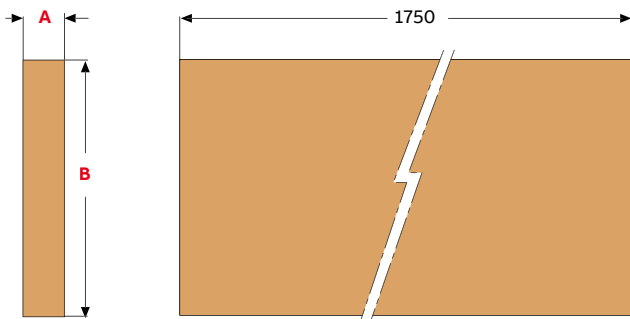
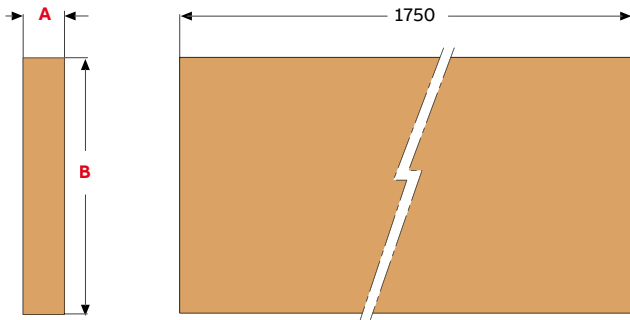
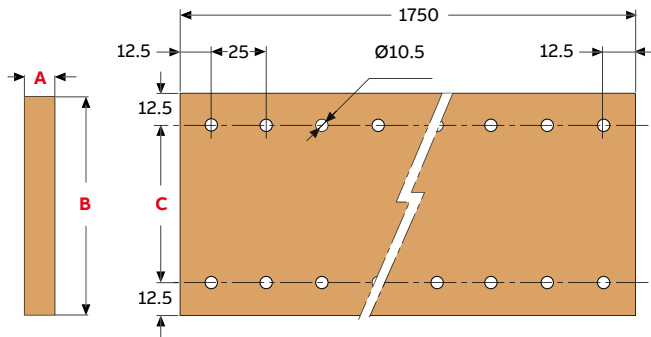
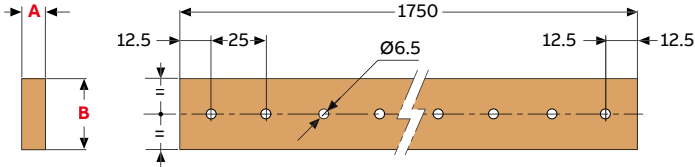


The measurements are given in millimeters

## 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

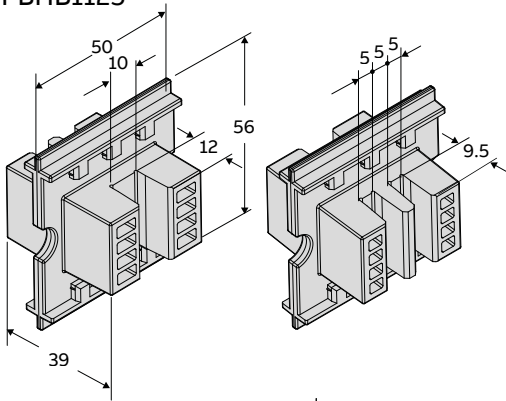
The measurements are given in millimeters

## Overall dimensions

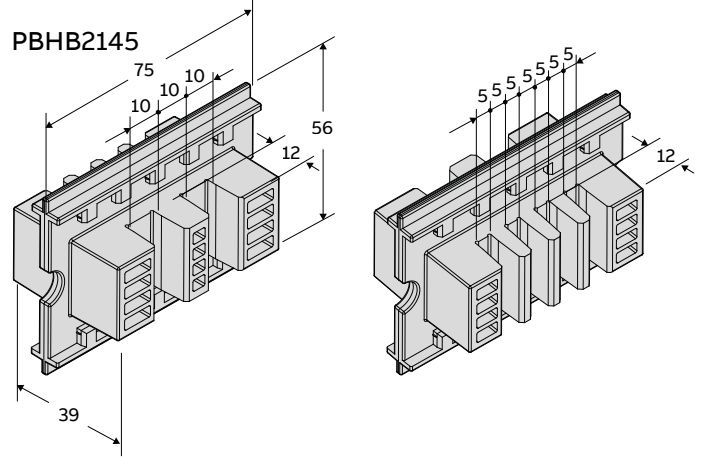
### Main distribution system

Linear busbar rails

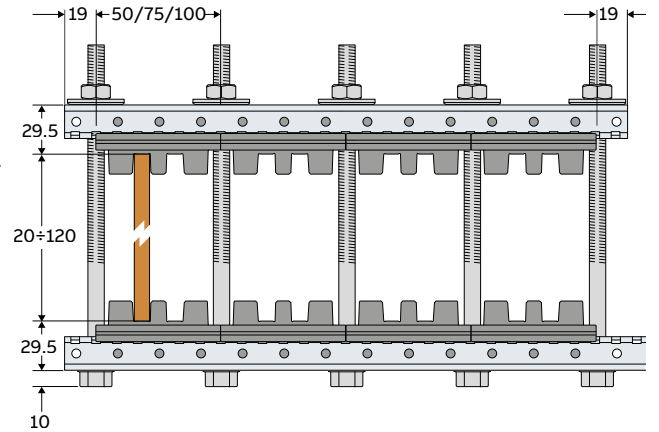
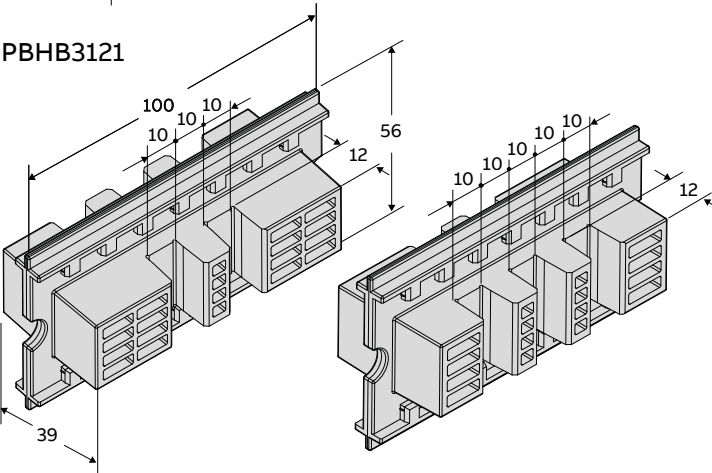
PBHB1125



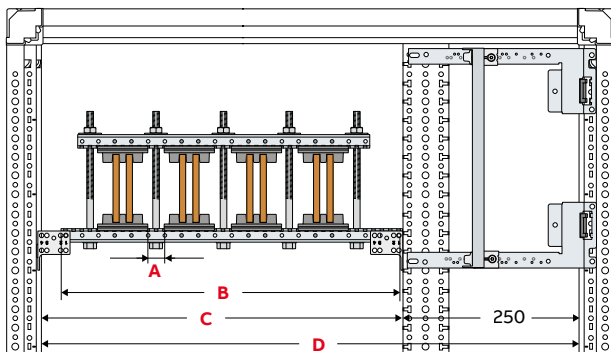
PBHB2145



PBHB3121



### Distance between insulating supports



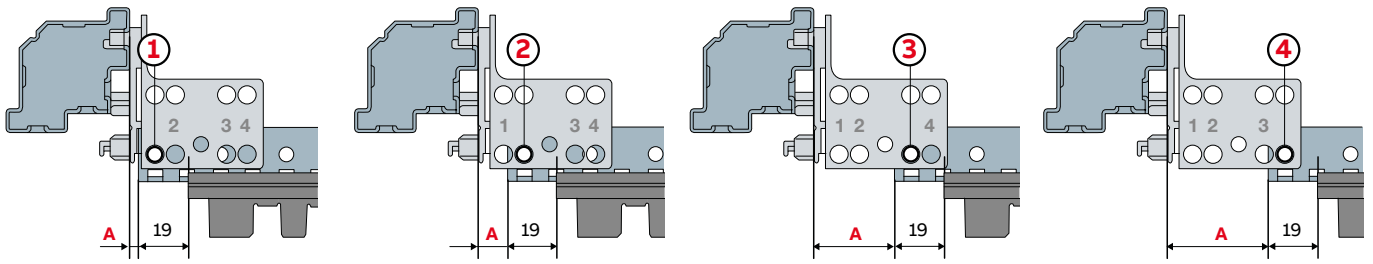
Code	W (mm)	No. poles	A	B	C	D
PBHB1125 50	50	3	0	188	254	504
		4		238	254	504
PBHB2145 75	75	3		438	454	704
		4		438	454	704
PBHB3121 100	100	3		438	454	704
		4		438	454	704
PBHB1125 50	50	3	12.5	238	254	504
		4		438	454	704
PBHB2145 75	75	3		438	454	704
		4		438	454	704
PBHB3121 100	100	3		438	454	704
		4		638	654	904
PBHB1125 50	50	3	25	238	254	504
		4		438	454	704
PBHB2145 75	75	3		438	454	704
		4		438	454	704
PBHB3121 100	100	3		438	454	704
		4		638	654	904

The measurements are given in millimeters

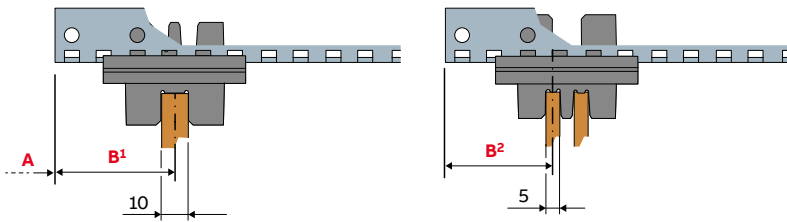
## Overall dimensions

### Main distribution systems

Linear busbar rails

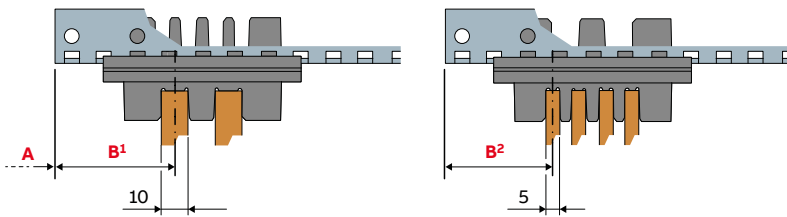


PBHB1125



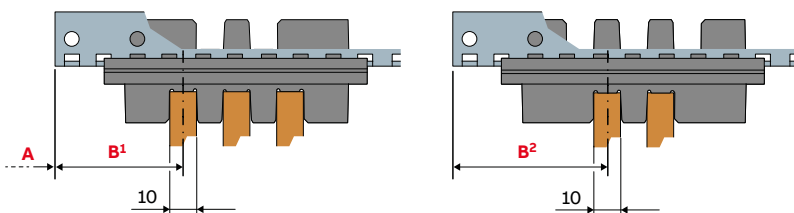
Position	A [mm]	B <sup>1</sup> [mm]	B <sup>2</sup> [mm]
①	3	44	39
②	10.5	44	39
③	30.5	44	39
④	38	44	39

PBHB2145



Position	A [mm]	B <sup>1</sup> [mm]	B <sup>2</sup> [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



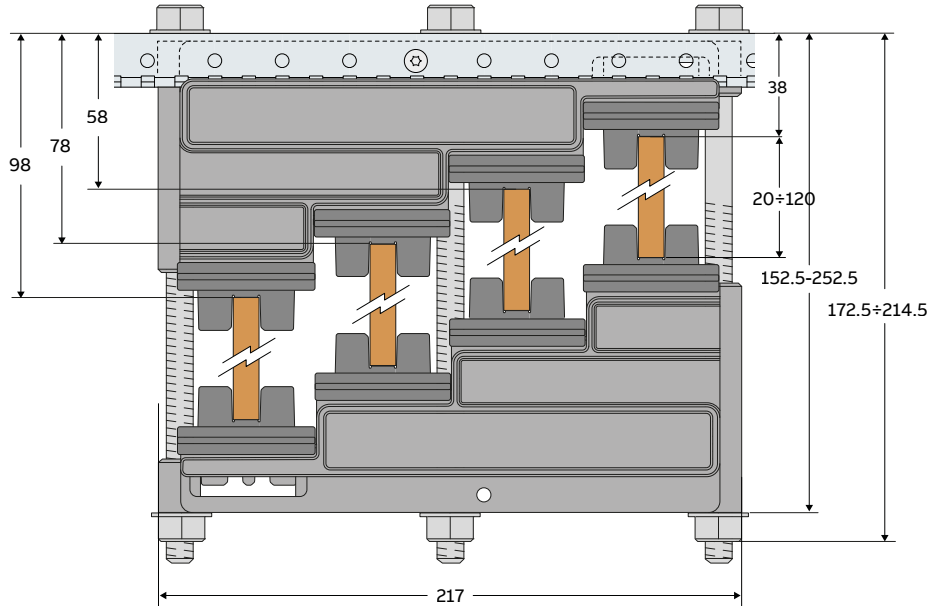
Position	A [mm]	B <sup>1</sup> [mm]	B <sup>2</sup> [mm]
①	3	49	59
②	10.5	49	59
③	30.5	49	59
④	38	49	59

The measurements are given in millimeters

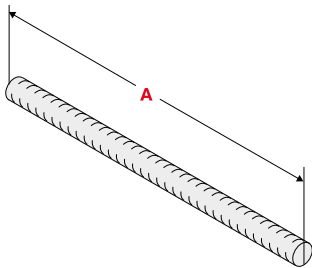
## Overall dimensions

### Main distribution systems

Scaled busbar rails

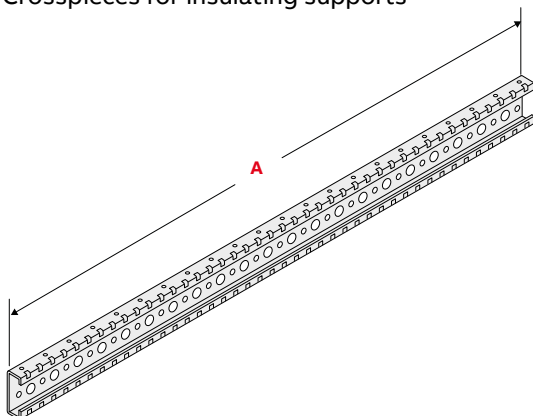


Tie rods



Steel tie rods	A	Stainless steel tie rods	A
PTRA0045	120	PTRS1201	210
PTRA0075	150	PTRS1601	250
PTRA0100	180	PTRS2001	290
PTRA0120	200		

Crosspieces for insulating supports



Galvanized sheet metal	Stainless steel	A	Galvanized sheet metal	Stainless steel	A
PCRM0188		88	PCRM0638	PCRS0388	638
PCRM0238		238	PCRM0688	PCRS0438	688
PCRM0288		288	PCRM0738		738
PCRM0338	PCRS0338	338	PCRM0788		788
PCRM0388	PCRS0388	388	PCRM0888	PCRS0588	888
PCRM0438	PCRS0438	438	PCRM0988	PCRS0638	988
PCRM0488		488	PCRM1238		1238
PCRM0538		538	PCRM2013		2013
PCRM0588	PCRS0338	588			

The measurements are given in millimeters

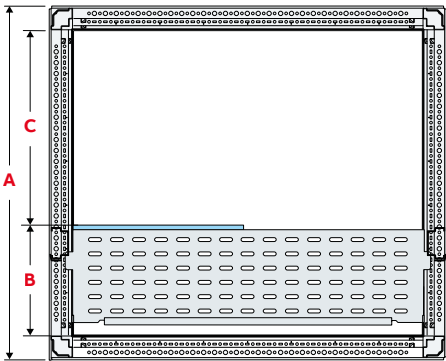
# Overall dimensions

## Segregations

### Segregations

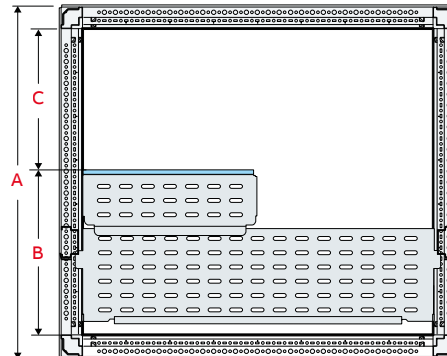
Segregations rear mounting positions

Assembly position **P0** PCVS0....



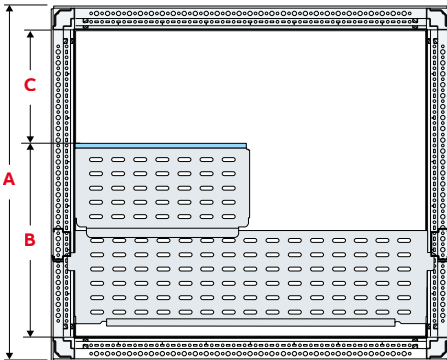
A	B	C
599	242.5	261.5
799	242.5	461.5
999	242.5	661.5

Assembly position **P1** PCVS1....



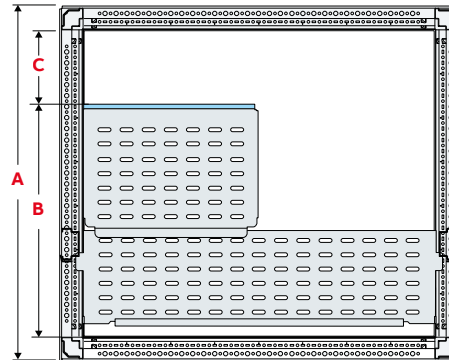
A	B	C
599	362.5	141.5
799	362.5	341.5
999	362.5	541.5

Assembly position **P2** PCVS2....



A	B	C
599	432.5	71.5
799	432.5	271.5
999	432.5	471.5

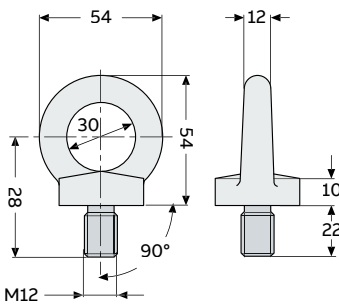
Assembly position **P3** PCVS3....



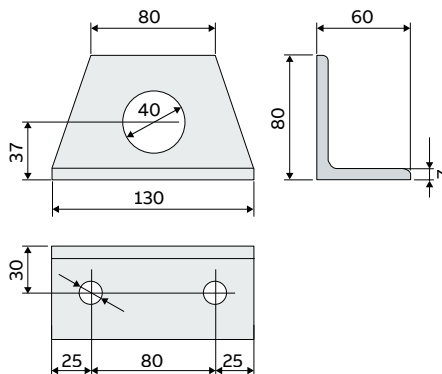
A	B	C
799	598.5	105.5
999	598.5	305.5

## Lifting and fixing

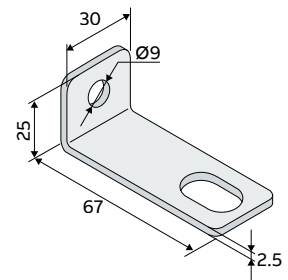
### Eyebolts for lifting



### Lifting reinforcements



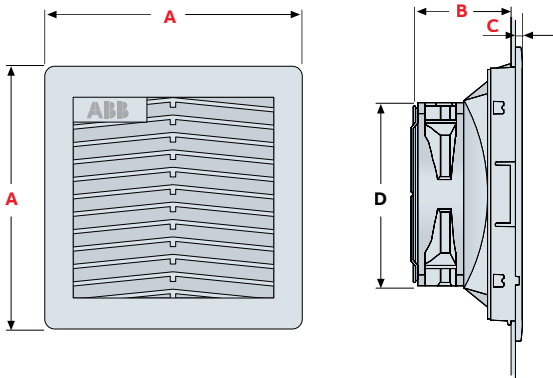
### Wall-mounting brackets



The measurements are given in millimeters

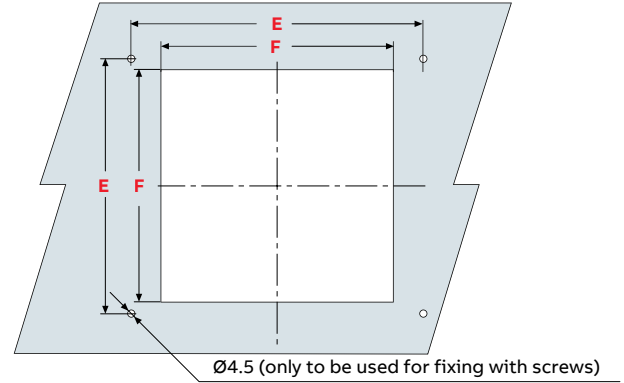
## Overall dimensions

### Aeration/ventilation Gratings

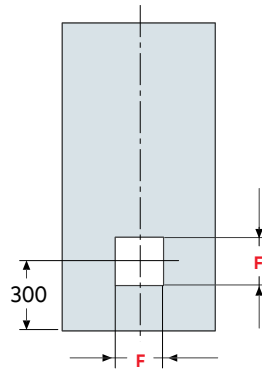


Code	A	B	C	D	E	F
EN0105K	105	60	7	80	95	92
EN1105K						
EN2105K						
EN0150K	150	64	7	124	131	125
EN1150K						
EN2150K						
EN0204K	204	90	8	127	185	177
EN1204K						
EN2204K						
EN0250K	250	113	8	172	230	223
EN1250K						
EN2250K						
EN0325K	325	24	9	255	302	291
EN2325K						
EN3325K		152	9	218	302	291

### Drilling template

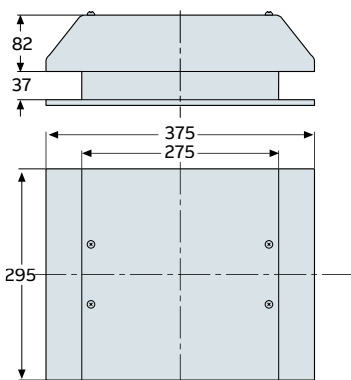


### Standard position of drillings Side panel/Door

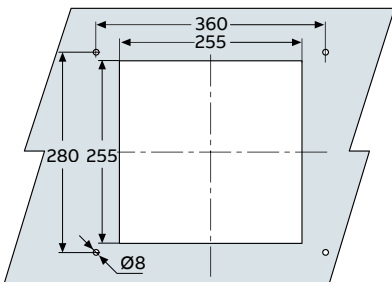


### Hood

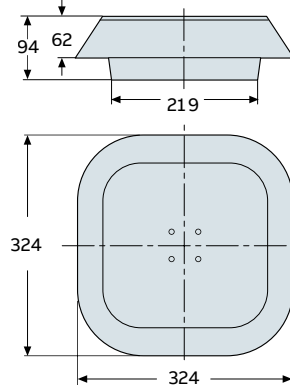
EN0480K-EN0481K-EN0482K



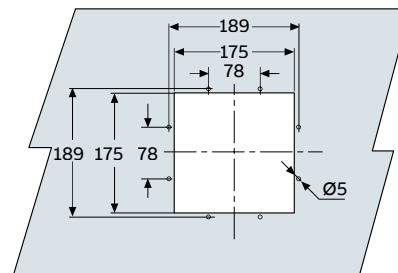
### Drilling template



EN0483K-EN0484K-EN0485K



### Drilling template

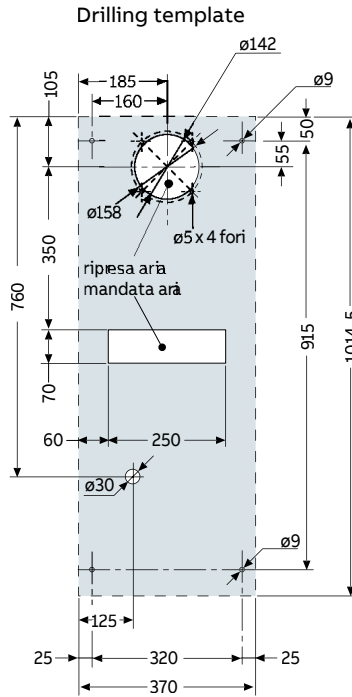
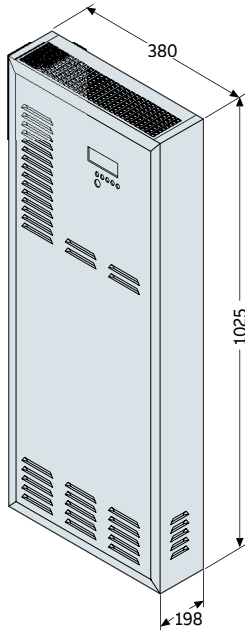


The measurements are given in millimeters

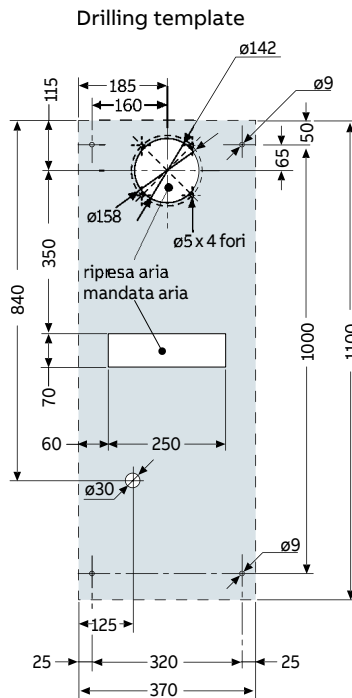
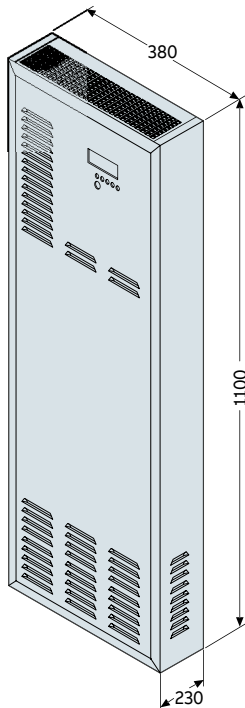
## Overall dimensions

### Aeration/ventilation

Air conditioners for wall or door mounting VZ1550K - VZ1850K - VZ1400K



Air conditioners for wall or door mounting VZ2000K



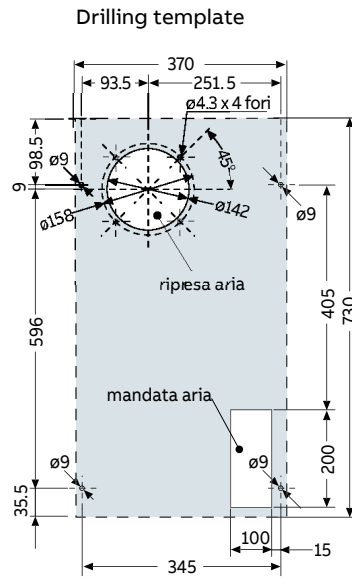
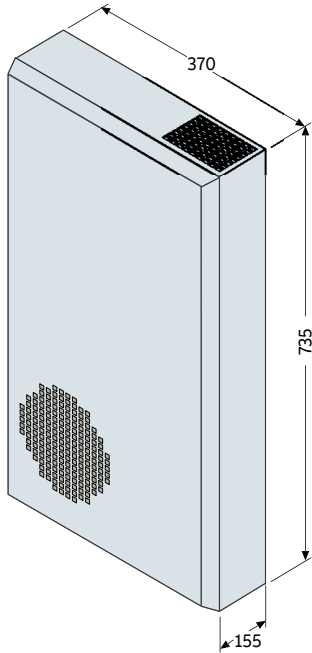
The measurements are given in millimeters



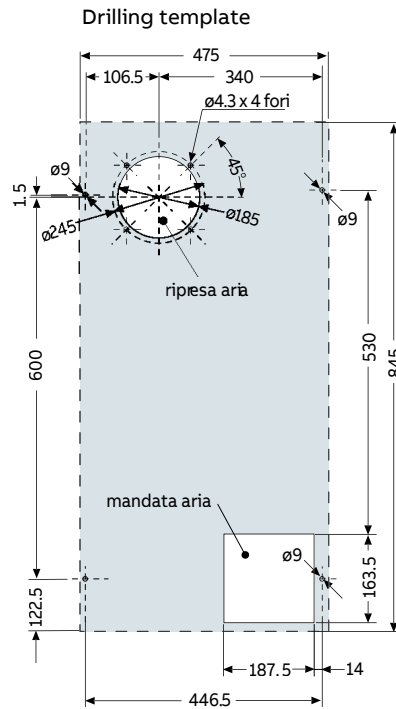
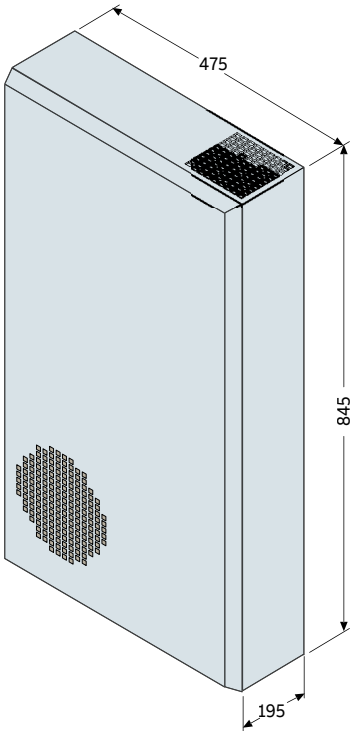
Overall dimensions

**Air conditioner**

Heat exchangers for wall or door mounting VS4235K



Heat exchangers for wall or door mounting VS6285K

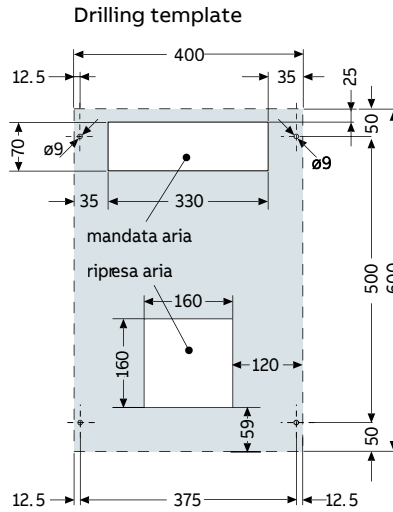
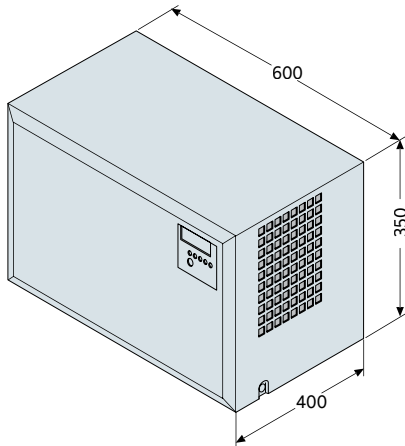


The measurements are given in millimeters

## Overall dimensions

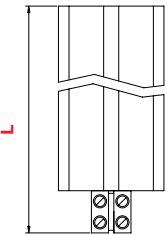
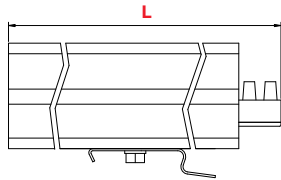
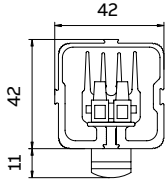
### Air conditioner

Air conditioners for mounting on roof VZ8501K-VZ1401K



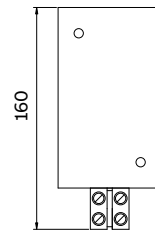
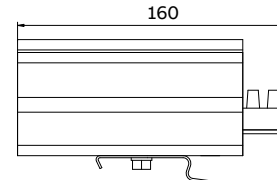
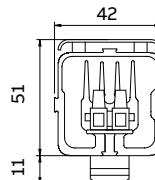
### IP20 heaters

VA7930/VA7950/VA7975

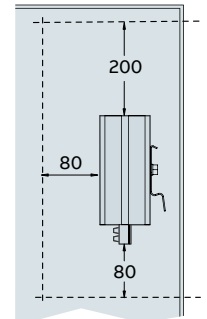


	L (mm)
VA7930	115
VA7950	165
VA7975	210

VA7910

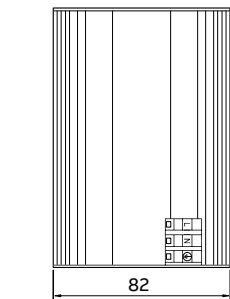
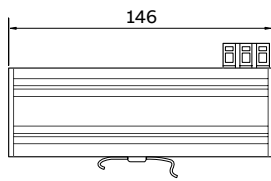
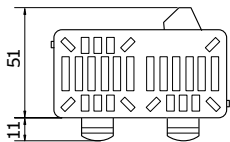


Minimum mounting distances

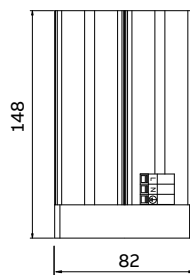
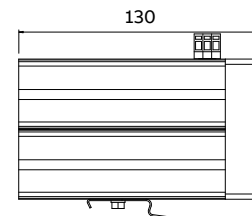
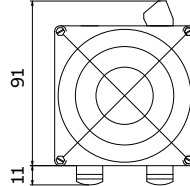


VA7930  
VA7950  
VA7975

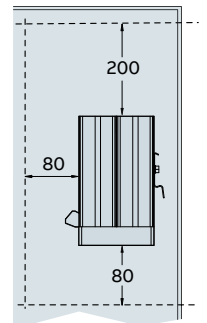
VA7915



VA8300



Minimum mounting distances



The measurements are given in millimeters



## **Chapter 9**

List of codes

## List of codes

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07243	4-55		AD1086	3-128		ED2560	4-57	
07244	4-55		AD1086	3-129		ED2564	4-57	
07245	4-55		AD1099	4-52		ED2654	4-57	
07246	4-55		AD1101	3-129		ED2662	4-57	
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1SL9037A00	4-54		AD1104	3-129		ED2738	4-57	
1SL9816A00	4-54		AD1600	3-129		ED2746	4-57	
1SL9817A00	4-54		AD1800	3-129		ED2753	4-57	
1SL9818A00	4-54		AD3301	3-129		ED2845	4-58	
1SL9819A00	4-54		AD3302	3-129		ED2852	4-58	
1SL9820A00	4-54		AD3303	3-129		ED2894	4-57	
1SL9836A00	4-54		AD3304	3-129		ED2902	4-57	
1SL9838A00	4-54		AD3305	3-129		ED2936	4-58	
1SL9839A00	4-54		AD3306	3-129		ED2944	4-59	
1SL9840A00	4-54		AD3307	3-129		ED2951	4-59	
1SL9841A00	4-54		AD3308	3-129		ED2961	4-59	
1SL9842A00	4-54		AP6000	3-128		ED2962	4-59	
1SL9860A00	4-54		BF1602	4-49		ED2969	4-59	
1SL9861A00	4-54		BF2502	4-49		ED2977	4-59	
1SL9862A00	4-54		BF4002	4-49		ED3033	4-59	
1SL9863A00	4-54		BF4012	4-49		ED3041	4-59	
1SL9864A00	4-54		BF6302	4-49		ED3058	4-59	
1SL9865A00	4-54		BF8002	4-49		ED3066	4-59	
1SL9866A00	4-54		BS3250	4-49		ED3090	4-59	
1SL9904A00	4-54		BS5050	4-49		ED3101	4-59	
1STQ005223B0000	4-66		BS6350	4-49		ED3102	4-59	
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PFC6090	6-15		ED0026	4-59		ED3272	4-59	
AA1560	2-38		ED2183	4-57		ED3280	4-59	
AA1570	2-38		ED2191	4-57		ED3298	4-59	
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AD1009	3-128		ED2373	4-58		EN0150K	4-62	
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AD1029	4-56		ED2407	4-58		EN0325K	6-41	
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AD1041	4-52		ED2550	4-57		EN0480K	4-64	
AD1053	4-56		ED2551	4-57		EN0481K	4-62	
AD1055	4-52		ED2552	4-57		EN0482K	6-41	
AD1056	4-51		ED2553	4-57		EN0482K	4-64	
AD1058	2-38		ED2554	4-57		EN0483K	4-62	
AD1064	4-51		ED2556	4-57		EN0484K	6-41	

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EN0485K	4-64		EV1119	4-50		PBFC1001	4-42	
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PVFE6230	3-119		VA7910	4-60				
PVFE6231	3-119		VA7915	4-60				
PVFE6231	3-119		VA7930	4-60				
PVFT5710	3-117		VA7950	4-60				
PVFT5712	3-117		VA7975	4-60				
PVFT5810	3-117		VA8300	4-60				
PVFT5812	3-117		VS4235K	4-65				
PVFT6610	3-117		VS6285K	4-65				
PVFT6610	3-117		VZ1400K	4-64				
PVFT6612	3-117		VZ1401K	4-65				
PVFT7633	3-117		VZ1550K	4-64				
PVFT7633	3-117		VZ1850K	4-64				
PVFX5413	3-117		VZ2000K	4-64				
PVFX5414	3-117		VZ8501K	4-65				
PVFX5415	3-117		ZN1041	2-17				
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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.

