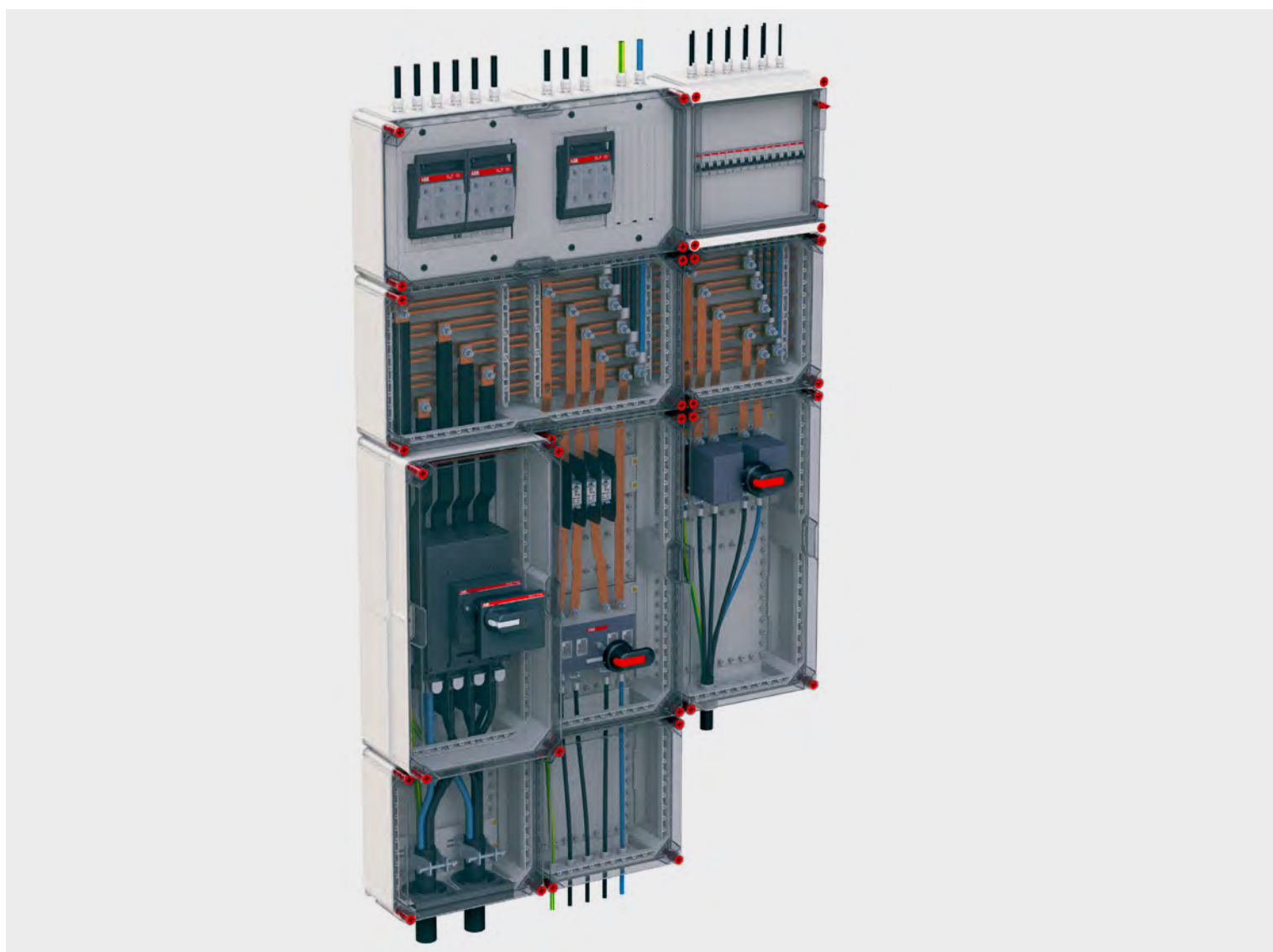


CATALOGUE

# VMS

New milestone in design simplicity and safety of energy distribution systems



- Flexible and scalable system for commercial and industrial areas
- Simple to design
- Quick to assemble
- Safe for users and environment

---

**ABB is the world's leading provider of products for electrical installation in buildings.**

**A comprehensive domain knowledge, global experience and continuous innovation enable us to provide optimal solutions for residential, commercial as well as industrial environments. Our solutions help to make your buildings safer, more energy efficient and equipped for the future.**

---

# Table of contents

<b>01</b>	<b>VMS system highlights</b>
<b>02</b>	<b>VMS kits</b>
<b>03</b>	<b>Busbar system</b>
<b>04</b>	<b>Mounting frames</b>
<b>05</b>	<b>VMS individual components</b>
<b>06</b>	<b>Drawings</b> <b>Power dissipation values</b>
<b>07</b>	<b>Type codes</b>
<b>08</b>	<b>Index</b>

# VMS

## New milestone in design simplicity and safety of energy distribution systems

Whether you're choosing an energy distribution system for hotel, factory or any other commercial or industrial building, VMS has got you covered.

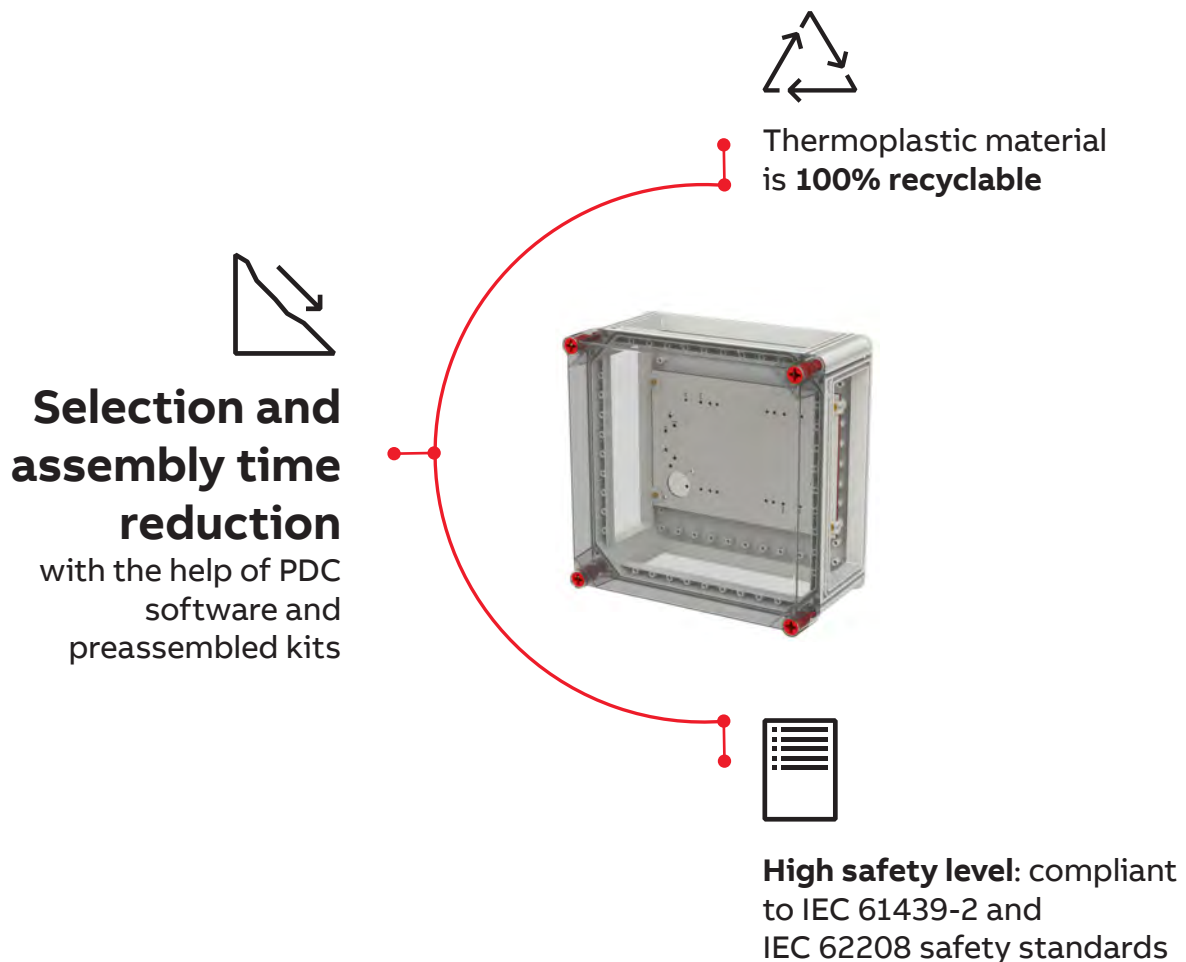
With its modular and scalable design VMS allows not just to build systems perfectly tailored to specific applications but also to expand your system as your needs change in future.

However VMS isn't just flexible and adaptable - it's also fully tested and safe. When combined with ABB devices, VMS meets the rigorous requirements of IEC 61439-2, giving you and your customers peace of mind.

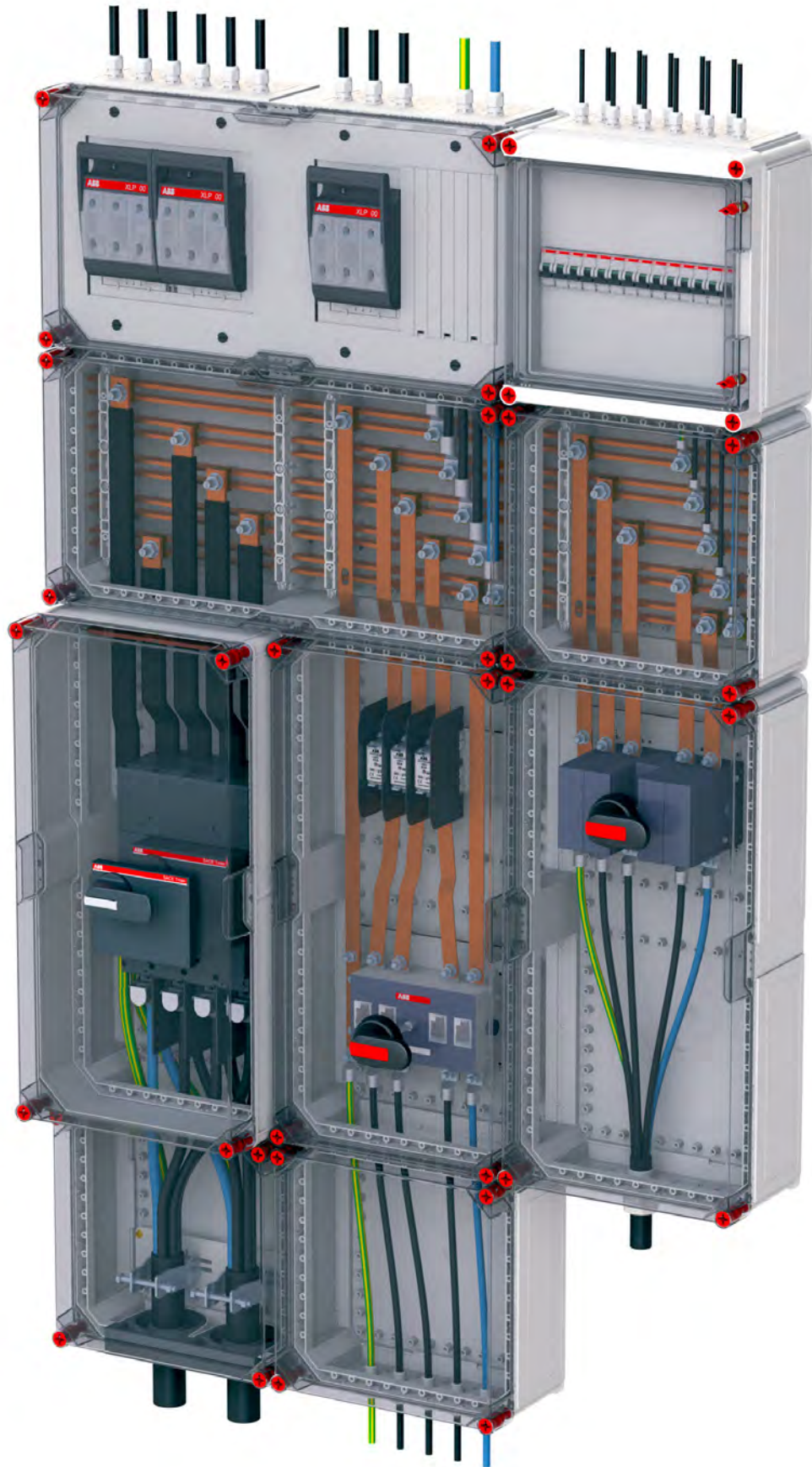
VMS is available in the form of preassembled kits tailored to house broad range of ABB devices. Within a kit all required components are delivered together with detailed assembly manuals. Install selected ABB device by following simple steps and IEC 61439-2 panelboard is complete!

PDC software will help to ease selection process and create parts lists together with system drawings.

Last but not least VMS enclosures are made from fully recyclable polycarbonate. So when VMS system reaches the end of its life it can be recycled reducing the impact on the environment and preserving natural resources.







Creating reliable and safe  
panelboard has never been easier  
than with VMS!

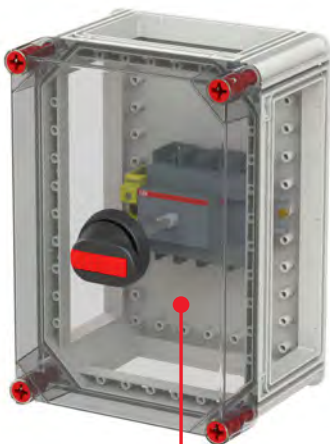
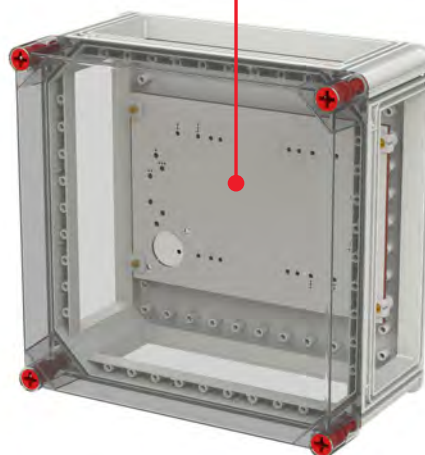
# VMS

## New milestone in design simplicity and safety of energy distribution systems

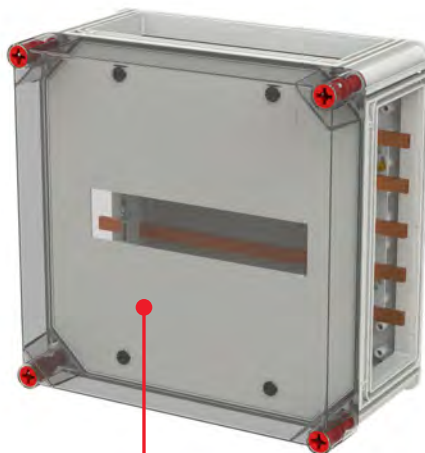
Five different sizes can be stacked horizontally and vertically



Predrilled mounting plates and covers with cut-outs for operating handles of devices



Tailored, tested and verified for broad range of ABB devices in accordance with IEC 61439-2 up to 1100 A



Compliant to IEC62208. IP65 certifies VMS is completely protected against the infiltration of solid bodies and is resistant to the penetration of lowpressure jets of water



### Simple to meet requirements

Available in 5 sizes that can be oriented either horizontally or vertically and easily connected together to build a system that can be customized to customers specific needs.



### Simple to design and assemble

Preassembled VMS kits can be easily selected with the help of this catalogue and PDC software. Furthermore VMS is also enhanced with detailed assembly and user manuals. The instructions in manuals are clear, easy to understand, and include detailed illustrations. All that makes VMS system is one of the easiest to work with, significantly reducing time and effort required for selection and assembly.



### Simple to verify

VMS system of enclosures is fully tested together with ABB devices in accordance with IEC 61439-2 by ABB. Hence Assembly Manufacturer is free of performing design verification by testing or calculation.



### Simple to scale up

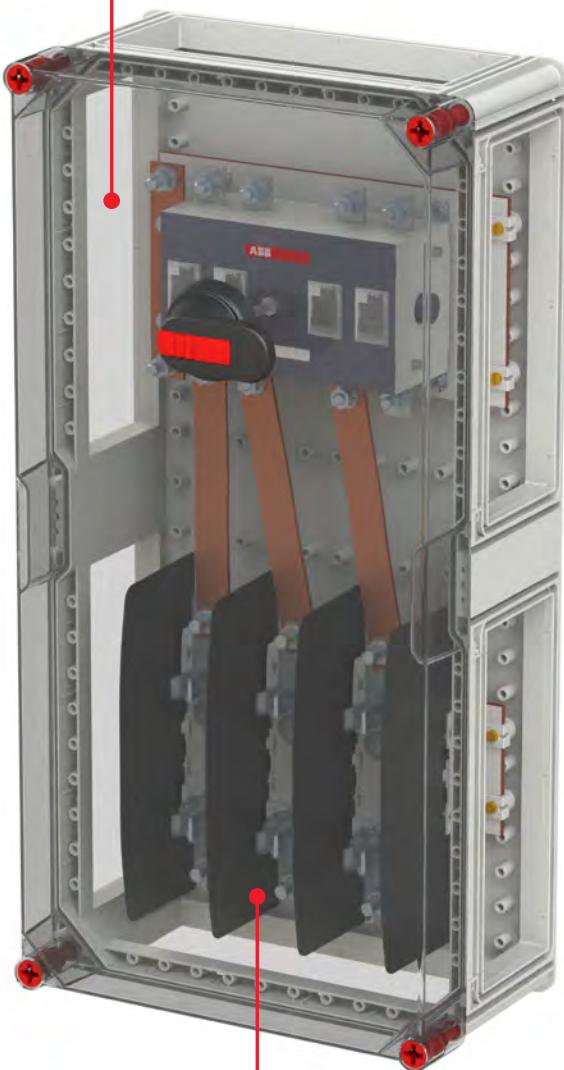
The modular design of VMS allows easily adding extra enclosures as needed. This means customer can start with a small system and expand it if his needs grow over time without having to replace the entire system.



### Simple to recycle

VMS enclosures are made of fully recyclable polycarbonate, an environmentally friendly material that can be easily recycled and repurposed. Hence VMS is not only a reliable and efficient energy distribution system, but also a conscious choice to support the environment.

Detailed user manuals, busbars connection kits and PDC software significantly simplify design and assembly



100% recyclable and halogenfree material



## VMS system highlights

### Delivery formats

VMS system is available in different formats providing customers with flexibility in manufacturing process and efficiency in usage of warehouse space.

#### Preassembled VMS boxes in kit format

These kits are prepared to house specific ABB devices (i.e. OT loadbreak switches, XT breakers, DINrail devices, etc.) and all the required items are delivered within a kit. This format is the most easiest way to work with the VMS system as all the required items are delivered together with detailed mounting instructions, pre-drilled mounting plates, covers with cut-outs for operating handles, etc. Such format significantly reduces system assembly time and design verification as soon as all kits were tested in compliance with IEC 61439-2 by DEKRA certified lab. Selection process for kits is also simple. Suitable VMS box can be selected by knowing type of devices, nominal current and quantity with the help of selection tables in the catalogue and PDC software.



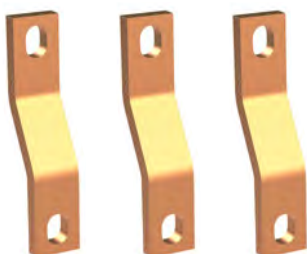
## VMS system highlights

### Delivery formats

#### Busbar and cable kits

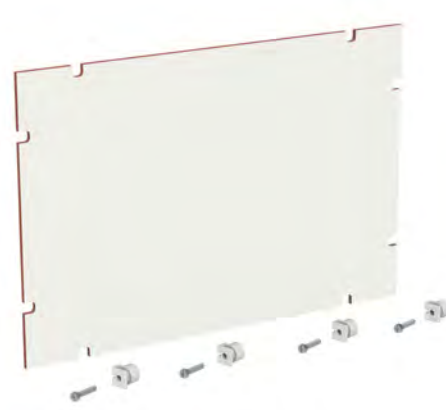
In order to simplify selection and assembly processes even more VMS provides various busbar and cable connection kits. This kits include perforated, bended and adjusted to correct length copper busbars or cables which can be used for connecting devices to main busbars system (MBB) or with each other.

Drawings for both copper and cable kits are available in ABB Library and can be used by customers to create their own busbar or cable connections.



#### Individual components

This format allows customers to order individual parts of the VMS system and boxes (base, cover, mounting plate, etc.) separately. Such format provides additional flexibility, extra efficiency in the usage of warehouse space and possibility to order replacement parts.





## VMS system highlights

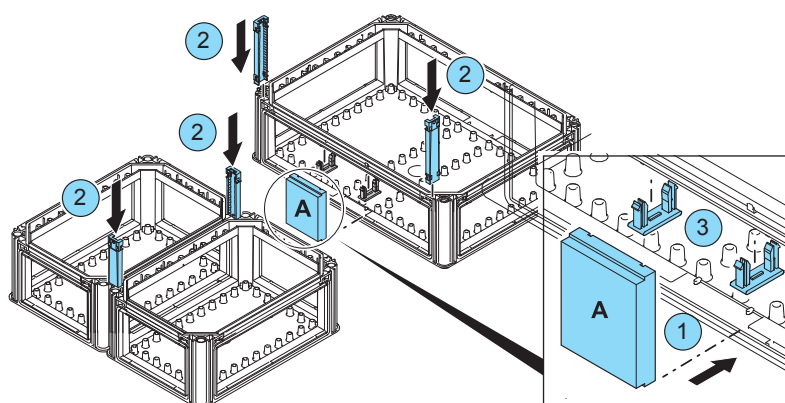
### Delivery formats

VMS is supplemented with a set of assembly manuals. They provide detailed information on how to assemble different parts of enclosures, how to connect enclosures together and make connections to main busbar system in order to complete distribution panel. These manuals are designed to be easy to understand and include clear illustrations and diagrams. The user manuals are available in electronic format can be downloaded from ABB Library using QR-codes from the following chapters.

System Manual gives additional information and describes general steps which should be performed during almost any panel assembly and installation: main busbar system assembly, mounting enclosures together, frame mounting, usage of accessories, etc.

Other manuals are available for most frequently used functions: enclosures with OT loadbreak switches, XT breakers, etc.

#### Example from System Manual



1. Install the coupling bridge (A) in the 440 mm side. The slots indicate the exact location.
2. Couple the bases with the four coupling dowels, insert them simultaneously.
3. Snap the coupling clamps in the openings below the upper base lip.



The IP degree is reduced to IP44.

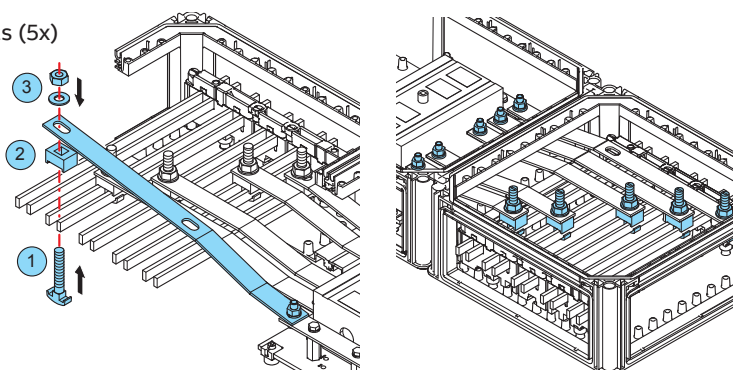
#### Example from OT-OS assembly manual

##### Mounting the anchor bolts (5x)

1. Anchor bolt.
2. Connecting block.
3. Nut / washer.



M10 30-44 Nm



Code to access  
System Manual:



## VMS system highlights

### Software tools

Link to e-design  
web-page:

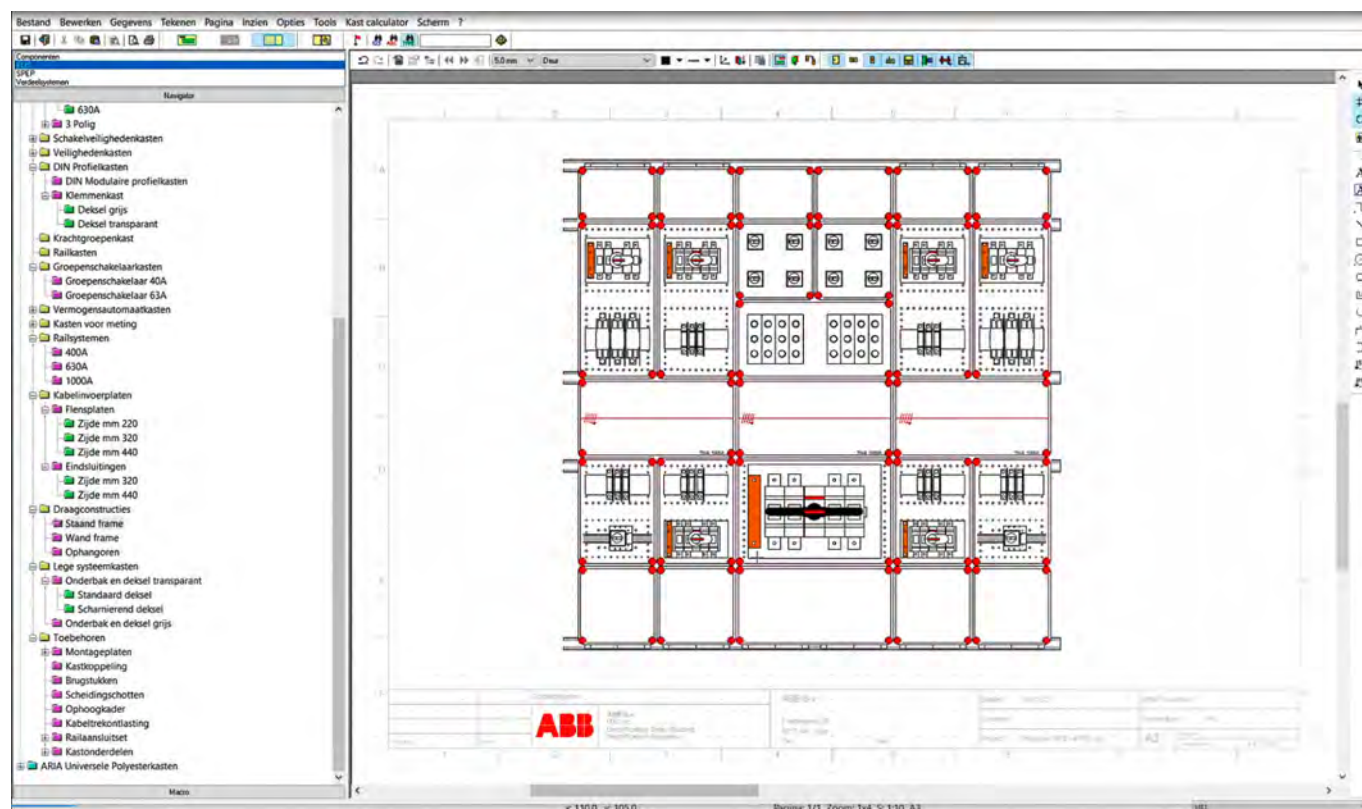


VMS is integrated in ABB PDC (Panel Design Configurator) software.

PDC is the easiest way to design a distribution panel by selecting necessary enclosures and attaching them together in working environment thus sizing the system, creating drawing and obtaining parts list at the same moment.

Moreover PDC helps to perform some essential checks including coupling kits and end plates automatic selection, has integrated links with assembly manuals and many other functions which help to significantly simplify design process and reduce risk of making mistakes.

PDC is delivered within e-design software package so it should be pre-installed as a first step.



## VMS system highlights

### Compliance with IEC 61439-2

The IEC 61439-2 standard is a critical requirement for low-voltage switchgear and controlgear assemblies, as it defines the safety, reliability, and performance requirements for such systems. Compliance with this standard is essential for ensuring that a low-voltage energy distribution system is safe and reliable for use in industrial and commercial settings.

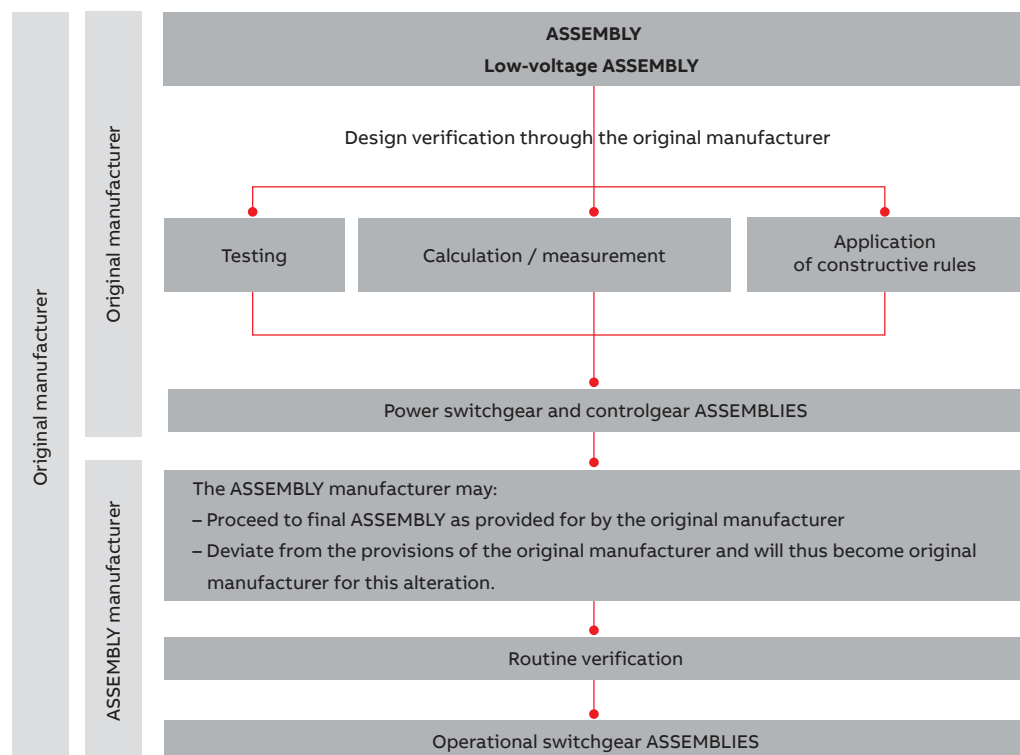
**The standard describes three design verification processes for ASSEMBLIES and requires a routine verification for every marketed product.**

Testing	Calculation / measurement	Application of constructive rules
such as <ul style="list-style-type: none"> <li>electrical</li> <li>mechanical</li> <li>thermal tests in accordance with the requirements specified in the standard</li> </ul>	such as <ul style="list-style-type: none"> <li>calculating of temperature rises or of short-circuit forces</li> <li>measurement of clearances and creepage distances</li> </ul>	such as <ul style="list-style-type: none"> <li>pecified dimensions</li> <li>test steps</li> <li>ASSEMBLY sequences based on tested reference designs</li> </ul>

**These processes are essentially implemented by the original manufacturer. In case that the ASSEMBLY manufacturer does not install an ASSEMBLY in compliance with the instructions of the original**

**manufacturer, the ASSEMBLY manufacturer will become original manufacturer for that alteration and will have to carry out the design verification in accordance with the described procedures.**

#### IEC 61439





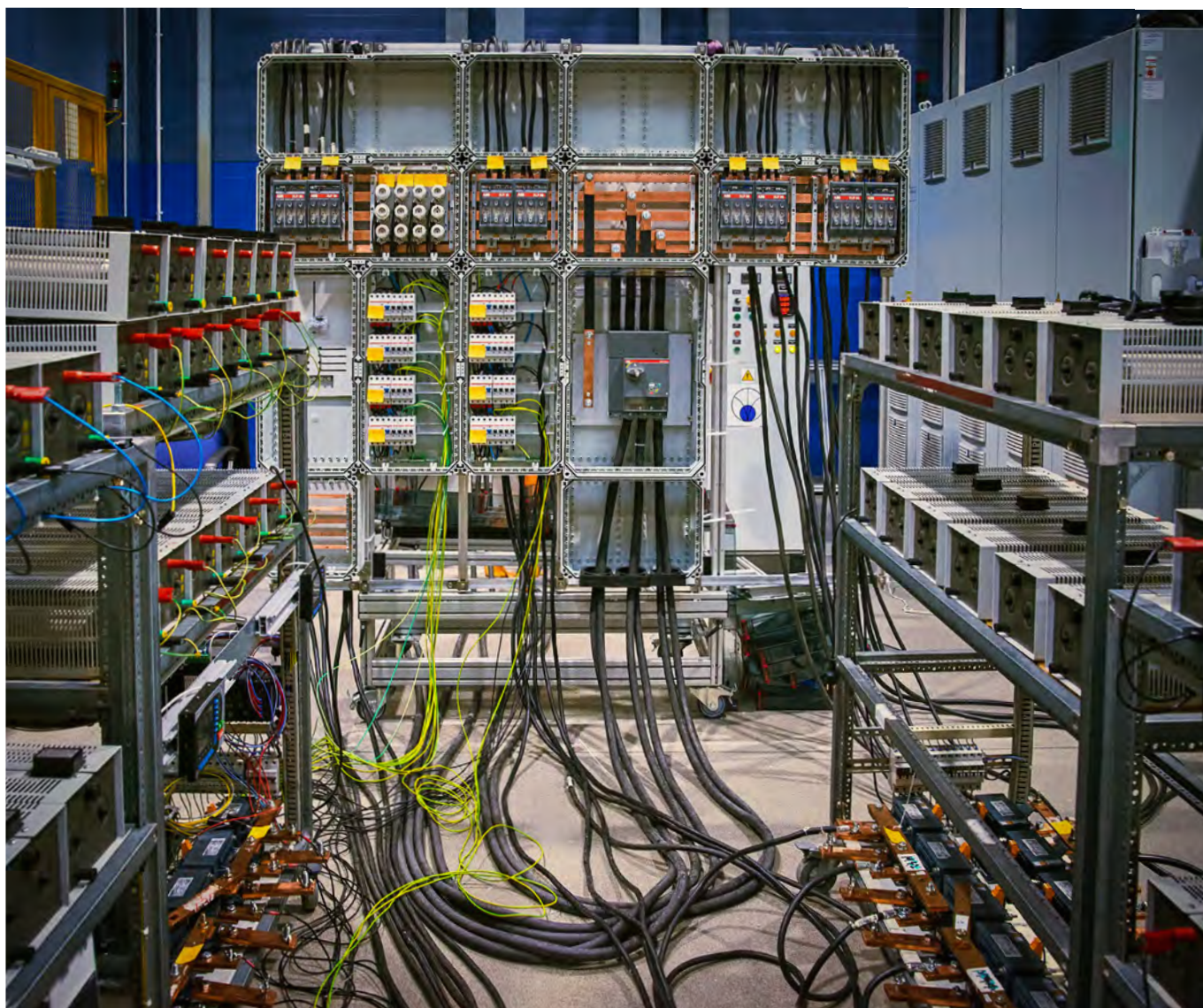
## VMS system highlights

### Compliance with IEC 61439-2

VMS was fully tested together with ABB devices in accordance with IEC 61439-2 by DEKRA certified laboratory.


It means that by applying VMS system Assembly Manufacturer (panelbuilder or installer) is free of carrying out design verification by testing and/or calculation if constructed system is designed and assembled in line with ABB user manuals and doesn't deviate from verified designs.

Hence by using VMS panelbuilders are not just providing their customers with a fully reliable and safe solution that meets the highest industry standards but also significantly reducing their time, efforts and costs by freeing themselves from responsibility of design verification.



## VMS system highlights

### Technical data

Degree of protection according to IEC 60529	
individual and coupled	IP65
with coupling set 2 x 220	IP44
with extension frame	IP65
with double extension frame	IP43
with cable entries	IP43
with bridges	IP55
Protection degree against external mechanical impacts according to EN 62262 and IEC 62262	
base + end plates + covers	IK08
hinged cover	IK06
Materials	
base + end-plates	Reinforced fiber-glass polycarbonate
covers	Polycarbonate
cover screws	Polyamide
gasket	PUR, neoprene
Temperature resistance	
Resistance to abnormal heat and fire (GWT)	960 °C for parts having direct contact with bare conductors (i.e. busbar supports and back box) / 650 °C for other parts
continuous use	-20 °C up to +80 °C
Colours	
base + end-plates	RAL 7035
covers	RAL 7035 / transparent
Protection	Double isolation 
Rated voltage	415 V AC
Rated insulation voltage	1000 V AC
Rated current	max. 1100 A
Rated short time withstand current	max. 30 kA (1.0 s.)
Rated peak short-circuit current	max. 63 kA peak
Standards	EN 61439-2, IEC 61439-2

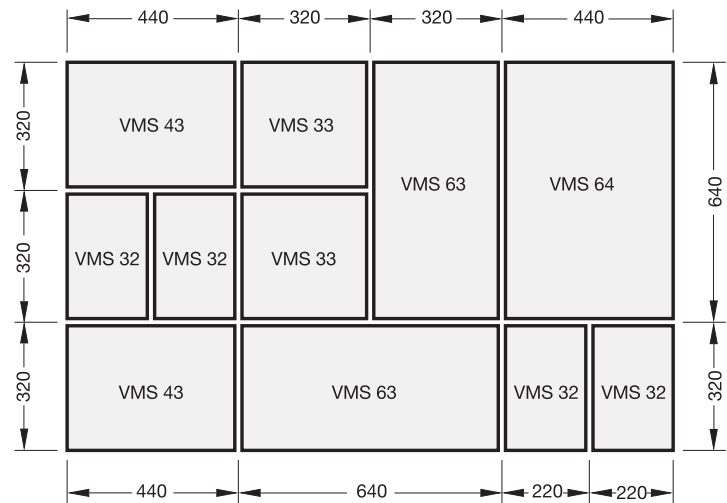


# VMS system highlights






## Modularity explained

- The range comprises five base dimensions, multiples of the 100 mm module.
- Each large base is a multiple of smaller bases. Securing points for mounting rails, plates, busbar holders, etc. are arranged by 25 mm increments, at the top, bottom and middle of the base.
- Each base can be oriented either vertically or horizontally and connected to the side of adjacent enclosure with matching dimension.

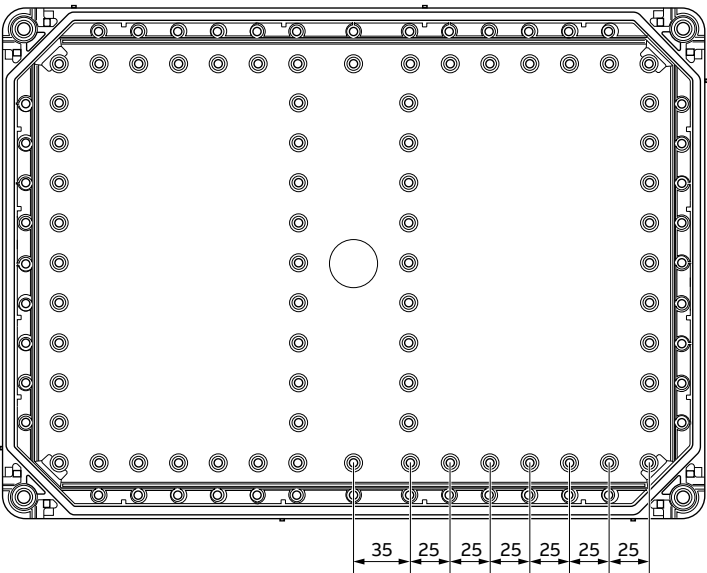
VMS - Range overview



VMS - Range overview

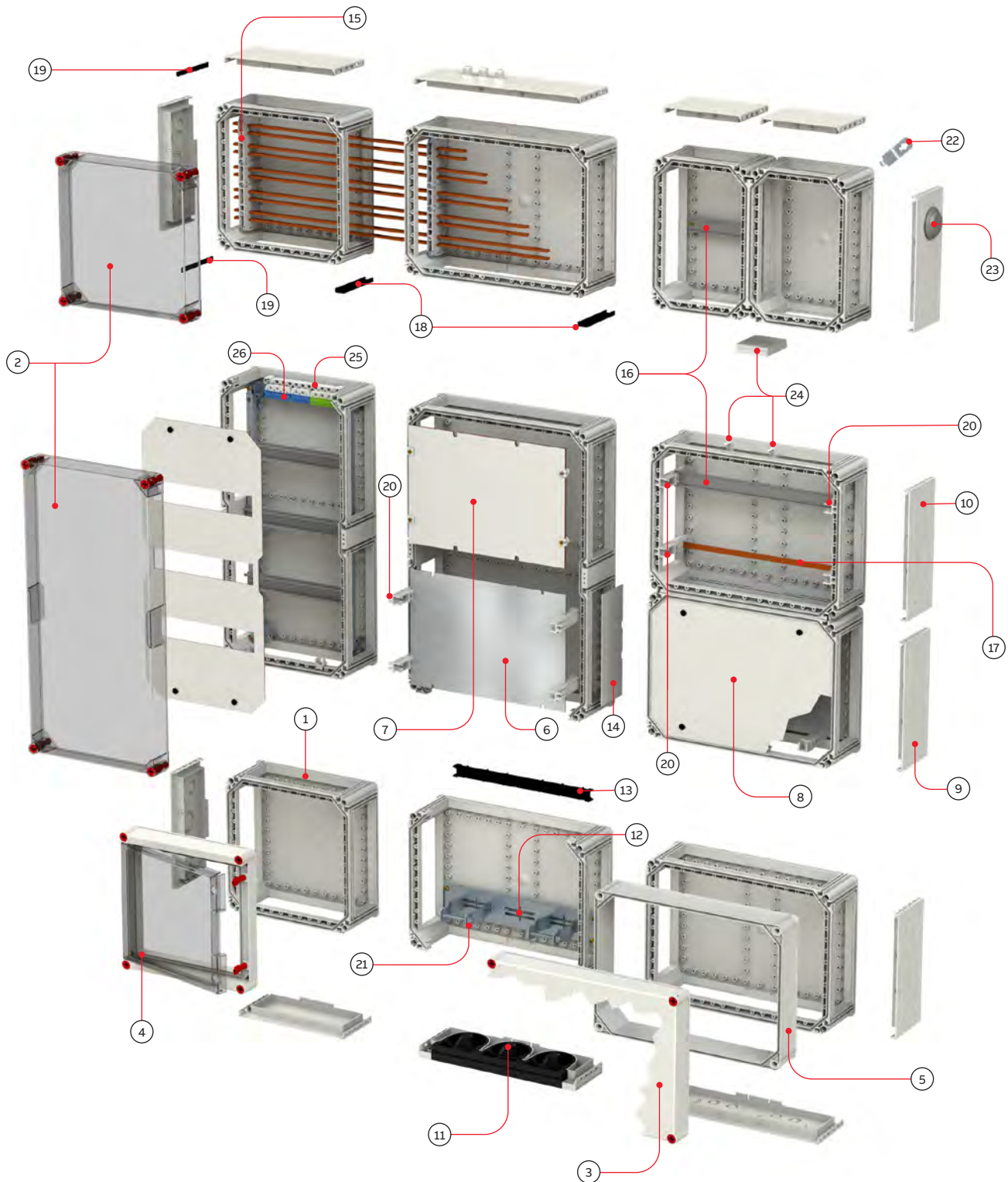
IP65 VMS (modular)				
				
320×220×179 mm	320×320×179 mm	440×320×179 mm	640×320×179 mm	640×440×179 mm
VMS 32	VMS 33	VMS 43	VMS 63	VMS 64

Dimensions for fixing points, VMS43 base with horizontal orientation is used in this example:



## VMS system highlights

### Basic components overview



- 1. Base
- 2. Transparent cover
- 3. Opaque cover
- 4. Pivoting cover
- 5. Depth extension frame
- 6. Mounting plate: metal
- 7. Mounting plate: pertinax

- 8. Solid cover panel
- 9. End plate
- 10. End plate with punch-out
- 11. End plate with cable entry
- 12. Cable grip support
- 13. Bridge
- 14. Partition plate

- 15. Busbar support
- 16. DIN rail
- 17. Busbar rail 12x2 mm
- 18. Coupling dowels
- 19. Locking pin (for end plates)
- 20. Universal support
- 21. Stress-relieving cable clamp

- 22. Mounting brackets
- 23. Air vent
- 24. Coupling set 2x220 mm
- 25. Terminal carrier
- 26. Terminal block

## VMS system highlights

### Assembly highlights

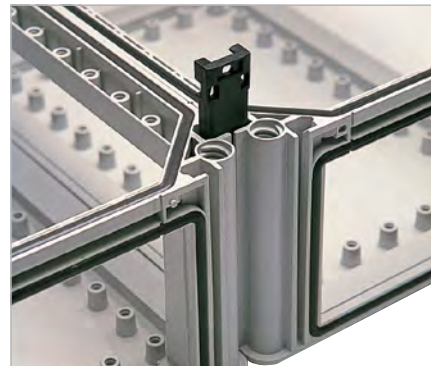


Modular dimensions in increments of 100mm in height and width, available in five sizes:

320×220 mm	320×320 mm
440×320 mm	640×320 mm
640×440 mm	



Assorted covers: transparent, opaque, or hinged; common design and depth.



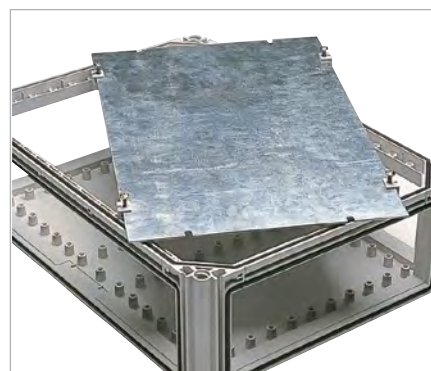
Quick coupling thanks to the coupling dowels inserted into the four corner slots of the boxes.



End plates are snapped on from the outside and fixed by means of vertically sunk keys at the front of the base.



After installation, the end-plates fit perfectly into the side panels of the base.



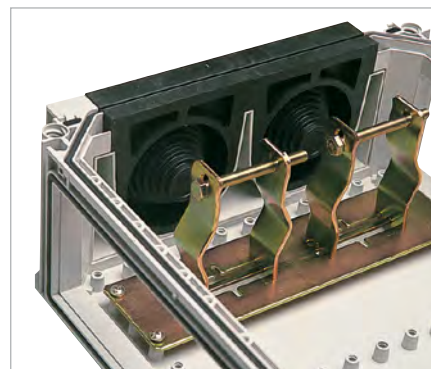
Mounting plates (2 mm in metal or 5 mm in insulating material pertinax), with mounting accessories.



Universal support for screwless and depth adjustable installation of DIN rails. This universal support is simply clicked over the base.



Removable bridges facilitate the introduction of large-section cables. After connecting the cables, insert the bridges (320 and 440 mm sides).



Universal cable entries and stress-relieving cable clamps to Ø 75 mm are attached to all base on side 320 mm (for 2 cables) and side 440 mm (for 3 cables).

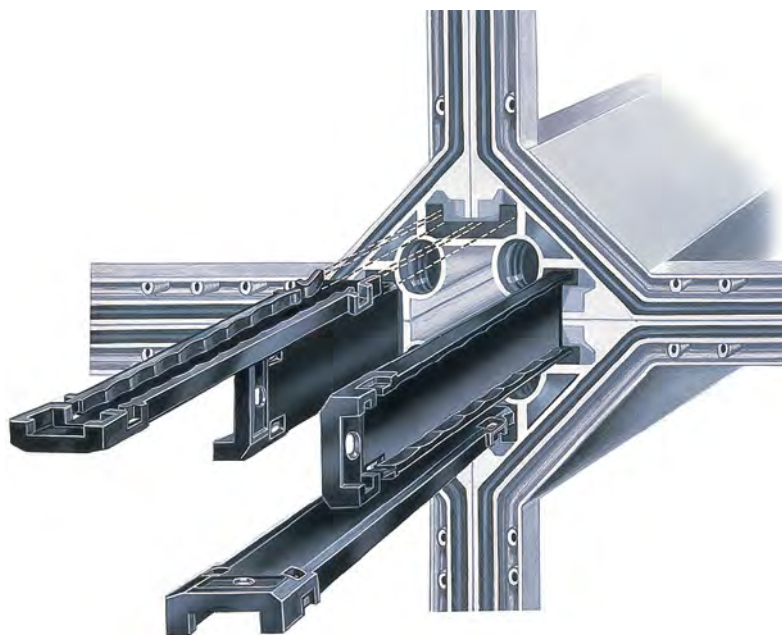


## VMS system highlights

### Assembly highlights

#### Vertical and horizontal stacking of enclosures

Enclosures are assembled using dowel pins mounted on the front end. The dowel pins are universal for the entire range of VMS enclosures.



#### Installation of end plates

After insertion from outside, the end plate is locked in position by two dowel pins and pressed against the enclosure body join.





Notes

Lined area for notes, consisting of 30 horizontal lines.



—  
02

## VMS kits

## VMS kits

### Index

<b>VMS kits</b>	
General purpose boxes	22
Boxes for DIN-rail devices	23
Terminals for DIN-rail boxes	24
Boxes for OT/OS installed on DIN-rail	26
Boxes for OT/OS changeover systems	27
Boxes for OT/OS installed on mounting plate	28
Connecting busbars for OT/OS	32
Boxes for OT + fuse holders combination installed on DIN-rail	43
Boxes for OT + OFAZ fuse holders combination installed on mounting plate	44
Connecting busbars for OT + fuse holders combination	46
Boxes D-type fuse sockets or XLP installed on busbars	52
Boxes for OFAZ fuse holders or XLP installed on mounting plate	56
Connecting busbars for XLP/OFAZ	58
Boxes for XT MCCBs	64
Connecting busbars for XT MCCBs	68
Boxes for Inline II switch disconnectors	78
Boxes for S750 and SPD installed on busbars	80
Boxes for meters and energy analyzers	81

## VMS kits

### General purpose boxes



4TBV853369C0100



4TBV853370C0100

#### Without mounting plate

- Base with four open sides without end plates
- Without mounting plates and DIN-rails
- With transparent or opaque cover

Description	External dimensions (HxWxD, mm)	Type code	Order code	Pack, pcs.
VMS 32 empty box with transparent cover	320 x 220 x 179	VF32HT-N	4TBV853347C0100	1
VMS 32 empty box with opaque cover	320 x 220 x 179	VF32HO-N	4TBV853348C0100	1
VMS 33 empty box with transparent cover	320 x 320 x 179	VF33HT-N	4TBV853349C0100	1
VMS 33 empty box with opaque cover	320 x 320 x 179	VF33HO-N	4TBV853350C0100	1
VMS 43 empty box with transparent cover	440 x 320 x 179	VF43HT-N	4TBV853355C0100	1
VMS 43 empty box with opaque cover	440 x 320 x 179	VF43HO-N	4TBV853356C0100	1
VMS 63 empty box with transparent cover	640 x 320 x 179	VF63HT-N	4TBV853369C0100	1
VMS 63 empty box with opaque cover	640 x 320 x 179	VF63HO-N	4TBV853370C0100	1
VMS 64 empty box with transparent cover	640 x 440 x 179	VF64HT-N	4TBV853373C0100	1
VMS 64 empty box with opaque cover	640 x 440 x 179	VF64HO-N	4TBV853374C0100	1



4TBV853381C0100

#### With mounting plate

- Base with four open sides without end plates
- PERTINAX mounting plate 5 mm
- Transparent cover

Description	External dimensions (HxWxD, mm)	Type code	Order code	Pack, pcs.
VMS 32 box with mounting plate and transparent cover	320 x 220 x 179	VF32HT	4TBV853375C0100	1
VMS 33 box with mounting plate and transparent cover	320 x 320 x 179	VF33HT	4TBV853379C0100	1
VMS 43 box with mounting plate and transparent cover	440 x 320 x 179	VF43HT	4TBV853380C0100	1
VMS 63 box with mounting plate and transparent cover	640 x 320 x 179	VF63HT	4TBV853381C0100	1
VMS 64 box with mounting plate and transparent cover	640 x 440 x 179	VF64HT	4TBV853382C0100	1

## VMS kits

### Boxes for DIN-rail devices



4TBV854351C0100



4TBV854352C0100

#### For DIN-rail devices with 125 row distance

- Base with four open sides without end plates
- DIN-rails 35x15
- Row distance 125 mm
- Protective plate with cut-outs for DIN-rail devices
- Transparent cover
- PE/N Terminals are not included

Description	External dimensions (HxWxD, mm)	Modules	Rows	Type code	Order code	Pack, pcs.
VMS32H 1xDIN-rail (14 mod)	220 x 320 x 179	14	1	VB32HT-D	4TBV854347C0100	1
VMS33H 2xDIN-rails 125mm (28 mod)	320 x 320 x 179	28	2	VB33HT-D2	4TBV854348C0100	1
VMS43V 3xDIN-rails 125mm (42 mod)	440 x 320 x 179	42	3	VB43VT-D3	4TBV854349C0100	1
VMS43H 2xDIN-rails 125mm (40 mod)	320 x 440 x 179	40	2	VB43HT-D2	4TBV854350C0100	1
VMS63V 4xDIN-rails 125mm (56 mod)	640 x 320 x 179	56	4	VB63VT-D4	4TBV854351C0100	1
VMS64V 4xDIN-rails 125mm (80 mod)	640 x 440 x 179	80	4	VB64VT-D4	4TBV854352C0100	1
VMS63H (2+2)xDIN-rails 125mm (56 mod)	320 x 640 x 179	56	2x2	VB63HT-D22	4TBV854353C0100	1



4TBV853853C0100



4TBV853854C0100

#### For DIN-rail devices with 150 row distance

- Base with four open sides without end plates
- DIN-rails 35x15
- Row distance 150 mm
- Protective plate with cut-outs for DIN-rail devices
- Transparent pivoting door in 4TBV853851C0100 and 4TBV853853C0100
- Transparent cover attached with screws in 4TBV853854C0100
- PE/N Terminals are not included

Description	External dimensions (HxWxD, mm)	Modules	Rows	Type code	Order code	Pack, pcs.
VMS33H 1xDIN-rail 14 mod pivot door	320 x 320 x 179	14	1	VB33HP-D	4TBV853851C0100	1
VMS43V 2xDIN-rail 150mm 28mod pivot door	440 x 320 x 179	28	2	VB43VP-DX2	4TBV853853C0100	1
VMS63V 3xDIN-rail 150mm 42mod tr. cover	640 x 320 x 179	42	3	VB63VT-DX3	4TBV853854C0100	1



4TBV854207C0100

#### Terminal carrier

- For mounting plug-in terminals (next page)
- Size: 11 terminal units

Description	Size, terminal units	Type code	Order code	Pack, pcs.
Terminal carrier for DIN-rail boxes	11	VA-TC11	4TBV854207C0100	1

## VMS kits

### Terminal for DIN-rail boxes



ZKS11B



ZKS11G

#### SCREW – Terminal blocks

Article	Number terminals 1.5 x 6 mm <sup>2</sup>	Number terminals 1.5 x 16 mm <sup>2</sup>	Maximum rated current [A]	Packaging pack/bulk	Type code	Order code
<b>N screw-terminals</b> For terminal carriers	3 x 6	3 x 16	100	1 5/270	ZKS6B 41Z57	2CPX063167R9999 1SPE007715F0731
	6 x 6	5 x 16	100	1 5/150	ZKS11B 41Z58	2CPX063168R9999 1SPE007715F0732
	9 x 6	7 x 16	100	1 5/120	ZKS16B 41Z59	2CPX063169R9999 1SPE007715F0733
	12 x 6	9 x 16	100	1 5/90	ZKS21B 41Z60	2CPX063170R9999 1SPE007715F0734
	15 x 6	11 x 16	100	1 5/90	ZKS26B 41Z61	2CPX063171R9999 1SPE007715F0735
<b>PE screw-terminals</b> For terminal carriers	3 x 6	3 x 16	100	1 5/270	ZKS6G 41Z62	2CPX063172R9999 1SPE007715F0741
	6 x 6	5 x 16	100	1 5/150	ZKS11G 41Z63	2CPX063173R9999 1SPE007715F0742
	9 x 6	7 x 16	100	1 5/120	ZKS16G 41Z64	2CPX063174R9999 1SPE007715F0743
	12 x 6	9 x 16	100	1 5/90	ZKS21G 41Z65	2CPX063175R9999 1SPE007715F0744
	15 x 6	11 x 16	100	1 5/90	ZKS26G 41Z66	2CPX063176R9999 1SPE007715F0745



ZK51B



ZK51G

#### QUICK PLUG – Terminal blocks screwless




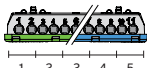





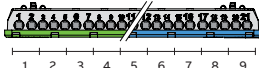


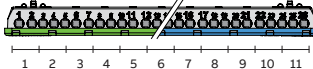


<b>N quick-plug terminals</b> For terminal carriers	5 x 1.5 - 4	0 x 25	63	1 5/280	ZK50B 41Z70	2CPX062750R9999 1SPE007715F9701
	5 x 1.5 - 4	1 x 25	63	1 5/180	ZK51B 41Z71	2CPX062751R9999 1SPE007715F9702
	8 x 1.5 - 4	2 x 25	63	1 5/150	ZK82B 41Z72	2CPX062752R9999 1SPE007715F9703
	11 x 1.5 - 4	3 x 25	63	1 5/100	ZK113B 41Z73	2CPX062753R9999 1SPE007715F9704
	14 x 1.5 - 4	4 x 25	63	1 5/90	ZK144B 41Z74	2CPX062754R9999 1SPE007715F9705
	14 x 1.5 - 4	5 x 25	63	1 5/70	ZK175B 41Z75	2CPX062755R9999 1SPE007715F9706
	20 x 1.5 - 4	6 x 25	63	1 5/60	ZK206B 41Z76	2CPX062756R9999 1SPE007715F9707
	23 x 1.5 - 4	7 x 25	63	1 5	ZK237B 41Z150	2CPX063163R9999 1SPE007715F9708
	26 x 1.5 - 4	8 x 25	63	1 5	ZK268B 41Z151	2CPX063164R9999 1SPE007715F9709
<b>N quick-plug terminals</b>	5 x 1.5 - 4	0 x 25	63	1	ZK50BT	2CPX062745R9999
<b>PE quick-plug terminals</b> For terminal carriers	5 x 1.5 - 4	1 x 25	63	1 5/180	ZK51G 41Z77	2CPX062757R9999 1SPE007715F9712
	8 x 1.5 - 4	2 x 25	63	1 5/150	ZK82G 41Z78	2CPX062758R9999 1SPE007715F9713
	11 x 1.5 - 4	3 x 25	63	1 5/100	ZK113G 41Z79	2CPX062759R9999 1SPE007715F9714
	14 x 1.5 - 4	4 x 25	63	1 5/90	ZK144G 41Z80	2CPX062760R9999 1SPE007715F9715
	17 x 1.5 - 4	5 x 25	63	1 5/70	ZK175G 41Z81	2CPX062761R9999 1SPE007715F9716
	20 x 1.5 - 4	6 x 25	63	1 5/60	ZK206G 41Z82	2CPX062762R9999 1SPE007715F9717
	23 x 1.5 - 4	7 x 25	63	1 5	ZK237G 41Z152	2CPX063165R9999 1SPE007715F9718
	26 x 1.5 - 4	8 x 25	63	1 5	ZK268G 41Z153	2CPX063166R9999 1SPE007715F9719

















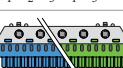





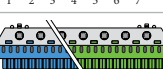





## VMS kits

### Terminal for DIN-rail boxes

#### Terminal blocks

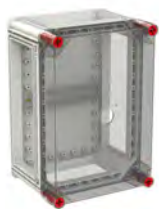
N/PE terminals with units	N screw-terminals	Type code	Screw connection system		PE screw-terminals	Type code	Screw connection system	
		ZKS6B 41Z57	3 x 6 mm <sup>2</sup>	3 x 16 mm <sup>2</sup>		ZKS6G 41Z62	3 x 6 mm <sup>2</sup>	3 x 16 mm <sup>2</sup>
		ZKS11B 41Z58	5 x 6 mm <sup>2</sup>	5 x 16 mm <sup>2</sup>		ZKS11G 41Z63	5 x 6 mm <sup>2</sup>	5 x 16 mm <sup>2</sup>
		ZKS16B 41Z59	9 x 6 mm <sup>2</sup>	7 x 16 mm <sup>2</sup>		ZKS11G 41Z63	9 x 6 mm <sup>2</sup>	7 x 16 mm <sup>2</sup>
		ZKS21B 41Z60	12 x 6 mm <sup>2</sup>	9 x 16 mm <sup>2</sup>		ZKS21G 41Z65	12 x 6 mm <sup>2</sup>	9 x 16 mm <sup>2</sup>
		ZKS26B 41Z61	15 x 6 mm <sup>2</sup>	11 x 16 mm <sup>2</sup>		ZKS26G 41Z66	15 x 6 mm <sup>2</sup>	11 x 16 mm <sup>2</sup>

#### Terminal blocks screwless

		ZK50B 41Z70 ZK50BT	0 x 25 mm <sup>2</sup>	5 x 1,5 - 4 mm <sup>2</sup>	-	-	-
		ZK51B 41Z71	1 x 25 mm <sup>2</sup>	5 x 1,5 - 4 mm <sup>2</sup>		ZK51G 41Z77	1 x 25 mm <sup>2</sup> 5 x 1,5 - 4 mm <sup>2</sup>
		ZK82B 41Z72	2 x 25 mm <sup>2</sup>	8 x 1,5 - 4 mm <sup>2</sup>		ZK82G 41Z78	2 x 25 mm <sup>2</sup> 8 x 1,5 - 4 mm <sup>2</sup>
		ZK113B 41Z73	3 x 25 mm <sup>2</sup>	11 x 1,5 - 4 mm <sup>2</sup>		ZK113G 41Z79	3 x 25 mm <sup>2</sup> 11 x 1,5 - 4 mm <sup>2</sup>
		ZK144B 41Z74	4 x 25 mm <sup>2</sup>	14 x 1,5 - 4 mm <sup>2</sup>		ZK144G 41Z80	4 x 25 mm <sup>2</sup> 14 x 1,5 - 4 mm <sup>2</sup>
		ZK175B 41Z75	5 x 25 mm <sup>2</sup>	17 x 1,5 - 4 mm <sup>2</sup>		ZK175G 41Z81	5 x 25 mm <sup>2</sup> 17 x 1,5 - 4 mm <sup>2</sup>
		ZK206B 41Z76	6 x 25 mm <sup>2</sup>	20 x 1,5 - 4 mm <sup>2</sup>		ZK206G 41Z82	6 x 25 mm <sup>2</sup> 20 x 1,5 - 4 mm <sup>2</sup>
		ZK237B 41Z150	7 x 25 mm <sup>2</sup>	23 x 1,5 - 4 mm <sup>2</sup>		ZK237G 41Z152	7 x 25 mm <sup>2</sup> 23 x 1,5 - 4 mm <sup>2</sup>
		ZK268B 41Z151	8 x 25 mm <sup>2</sup>	26 x 1,5 - 4 mm <sup>2</sup>		ZK268G 41Z153	8 x 25 mm <sup>2</sup> 26 x 1,5 - 4 mm <sup>2</sup>

## VMS kits

Boxes for OT/OS installed on DIN-rail



4TBV853445C0100



4TBV853519C0100

### For load break switches OT 16-125A mounted on DIN-rail

- For 3-pole or 4-pole
- Base with four open sides without end plates
- DIN-rail 35 x 7.3 mm
- Transparent cover with cut-out for handle shaft
- PE/N Terminals are not included

Additional info  
can be found in  
User Manual:



4TBV853528C0100

Description	External dimensions (HxWxD, mm)	Device type	Qty devices*	Max device current, A	Compatible OT handlecode/type	Type code	Order code	Pack, pcs.
VMS32V for OT16F - OT125F DIN RAIL	320 x 220 x 179	OT16-125	1	125	1SCA022380R8770 OHB45J6	VB32VT-S125/4	4TBV853445C0100	1
VMS32H for 2x OT40F - OT63F DIN RAIL	220 x 320 x 179	OT40-63	2	63	1SCA105232R1001 OHBS2RJ	VB32HT-S2x63/4	4TBV853519C0100	1
VMS32V for 2x OT40F - OT63F DIN RAIL	320 x 220 x 179	OT40-63	2	63	1SCA105232R1001 OHBS2RJ	VB32VT-S2x63/4	4TBV853521C0100	1
VMS33 for 4x OT40F - OT63F DIN RAIL	320 x 320 x 179	OT40-63	4	63	1SCA105232R1001 OHBS2RJ	VB33HT-S4x63/4	4TBV853528C0100	1
VMS33 for 5x OT40F DIN RAIL	320 x 320 x 179	OT40	5	40	1SCA105232R1001 OHBS2RJ	VB33HT-S5x40/4	4TBV853530C0100	1
VMS32H for 1x OT16F - OT125F**	220 x 320 x 179	OT16-125	1	125	1SCA022380R8770 OHB45J6	VB32HT-C125/4	4TBV853425C0100	1
VMS33 for 1x OT16F - OT125F**	320 x 320 x 179	OT16-125	1	125	1SCA022380R8770 OHB45J6	VB33HT-C125/4	4TBV853426C0100	1

\* By determining quantity of devices per enclosure use RDF values from table 101 of IEC 61439-2

\*\* The same enclosure can be used for changeover system

## VMS kits

### Boxes for OT/OS changeover systems



4TBV853425C0100



4TBV853429C0100





#### For changeover systems

- For 3-pole or 4-pole
- Base with four open sides without end plates
- DIN-rail 35 x 7.3 mm or pre-drilled mounting plate
- Transparent cover with cut-out for 1 handle shaft
- PE/N Terminals are not included
- Change-over switch mechanism is not included\*
- Please select matching change-over switch mechanism from catalogue: Switches, Switch-disconnectors OT and OTM. Catalogue OT8GB 07-07. ID number 1SCC301020C0201

Description	External dimensions (HxWxD, mm)	Device type	Qty devices*	Max device current	Mounting surface	Compatible OT handlecode/type	Type code	Order code	Pack, pcs.
VMS 32H for changeover system: 2x OT16F - OT125F	220 x 320 x 179	OT	2	125	DIN-rail	1SCA022817R2130 OHB45J6E311	VB32HT-C125/4	4TBV853425C0100	1
VMS 33 for changeover system: 2x OT16F - OT125F	320 x 320 x 179	OT	2	125	DIN-rail	1SCA022817R2130 OHB45J6E311	VB33HT-C125/4	4TBV853426C0100	1
VMS 63H for changeover system: 2x OT160-250 or 2x OS100-160	320 x 640 x 179	OT/OS	2	250/160	mounting plate	handle is included in change-over switch mechanism	VB63HT-C250/4	4TBV853429C0100	1

\* Please select matching change-over switch mechanism from catalogue: Switches, Switch-disconnectors OT and OTM. Catalogue OT8GB 07-07. ID number 1SCC301020C0201

#### Terminals for 4TBV853429C0100

	Description	Nominal current, A	Device type	Type code	Order code	Pack, pcs.
	VMS TERMINAL OT / XT 160A	160	OT160	VTM160	4TBV853681C0100	1
	VMS TERMINAL OT / XT 250A	250	2xOT250	VTM250	4TBV853682C0100	1
	VMS N feed-through terminal 160A, connection via CLAMP	160	2xOS100	VTM-160FT-C	4TBV853216C0100	1
	VMS N feed-through terminal 160A, connection via BOLT	160	2xOS160	VTM-160FT-B	4TBV853700C0100	1

4TBV853700C0100

## VMS kits

Boxes for OT/OS installed on mounting plate



4TBV853446C0100



4TBV853471C0100



4TBV853490C0100

### For load break switches OT 160-1250 or OS32-400 installed on mounting plate

- For 3-pole or 4-pole (configurations 12, 22)
- Base with four open sides without end plates
- PERTINAX mounting plates 5 mm
- Plates are pre-drilled and marked for correct positioning of devices
- With extension frame for OS installation
- Transparent cover with cut-out for handle shaft
- PE/N Terminals are not included (use selection table next page)

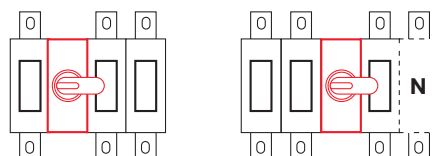
**The use of supports against short circuit current dynamic stress is mandatory in installation with OT630-OT1250.**

**The use of extra box for cable management and cable connection sets is always recommended in installation with OT1000-OT1250.**

**Refer to the following pages for selection**

Configuration of compatible OT/OS:

Front operated  
Configuration 12, 22:



Additional info can be found in User Manual:



Description	External dimensions (HxWxD, mm)	Device type	Qty devices*	Max device current, A	Compatible OT handlecode/type	Type code	Order code	Pack, pcs.
VMS33 for OT160-250 / OS32-63 / OS100-160	320 x 320 x 179	OT/OS	1	250/160	1SCA022380R9660 OHB65J6	VB33HT-S250/4	4TBV853446C0100	1
VMS43V for OT160-250 / OS100-160	440 x 320 x 179	OT/OS	1	250/160	1SCA022380R9660 OHB65J6	VB43VT-S250/4	4TBV853447C0100	1
VMS63V for OT160-250 / OS100-160	640 x 320 x 179	OT/OS	1	250/160	1SCA022380R9660 OHB65J6	VB63VT-S250/4	4TBV853450C0100	1
VMS64V for OS200-250	640 x 440 x 179	OS	1	250	1SCA022380R9660 OHB65J6	VB64VT-F250/4	4TBV853451C0100	1
VMS64V for OT315-400	640 x 440 x 179	OT	1	400	1SCA022381R0830 OHB95J12	VB64VT-S400/4	4TBV853452C0100	1
VMS64V for OS315-400 BOT 4p / TOP 3p*	640 x 440 x 179	OS	1	400	1SCA022381R0830 OHB95J12	VB64VT-F400/4B	4TBV853471C0100	1
VMS64V for OS315-400 TOP 4p / BOT 3p*	640 x 440 x 179	OS	1	400	1SCA022381R0830 OHB95J12	VB64VT-F400/4T	4TBV853472C0100	1
VMS64V for OT 630-800 BOT 4p / TOP 3p*	640 x 440 x 179	OT	1	800	1SCA022381R1560 OHB125J12	VB64VT-S800/4B	4TBV853473C0100	1
VMS64V for OT 630-800 TOP 4p / BOT 3p*	640 x 440 x 179	OT	1	800	1SCA022381R1560 OHB125J12	VB64VT-S800/4T	4TBV853474C0100	1
VMS64H for OT1000-1250	640 x 440 x 254	OT	1	1100	1SCA022865R9430 OHB150J12P	VB64HT-S1250/4	4TBV853490C0100	1

\* BOT: device is positioned in the lower part of enclosure, main busbar system (MBB) is located below enclosure; 3p/4p - quantity of device poles

\* TOP: device is positioned in the upper part of enclosure, main busbar system (MBB) is located above enclosure; 3p/4p - quantity of device poles

## VMS kits

Boxes for OT/OS installed on mounting plate






### Terminals

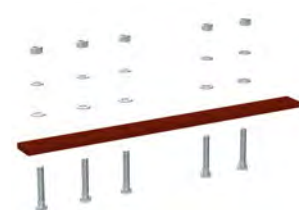
	Device type	Enclosure order code	Order code	Description	Type code	Nominal current, A	Pack, pcs.
	OT / XT 160	4TBV853446C0100 4TBV853447C0100 4TBV853450C0100	4TBV853681C0100	VMS TERMINAL OT / XT 160A	VTM160	160	1
<b>4TBV853681C0100</b>							
	OT / XT 200 OT / XT 250	4TBV853446C0100 4TBV853447C0100 4TBV853450C0100	4TBV853682C0100	VMS TERMINAL OT / XT 250A	VTM250	250	1
<b>4TBV853682C0100</b>							
	OT / XT 315 OT / XT 400	4TBV853452C0100	4TBV853683C0100	VMS TERMINAL OT / XT 400A	VTM400	400	1
<b>4TBV853683C0100</b>							
	OT / XT 630	4TBV853473C0100 4TBV853474C0100	4TBV853684C0100	VMS TERMINAL OT / XT 630A for 50% PE/N	VTM630-50	400	1
<b>4TBV853684C0100</b>							
	OT / XT 630	4TBV853473C0100 4TBV853474C0100	4TBV853685C0100	VMS TERMINAL OT / XT 630A	VTM630	630	1
<b>4TBV853685C0100</b>							
	OT / XT 800	4TBV853473C0100 4TBV853474C0100	4TBV853686C0100	VMS TERMINAL OT / XT 800A for 50% PE/N	VTM800-50	400	1
<b>4TBV853686C0100</b>							
	OT / XT 800	4TBV853473C0100 4TBV853474C0100	4TBV853687C0100	VMS TERMINAL OT / XT 800A	VTM800	800	1
<b>4TBV853687C0100</b>							
	OT / XT 1000	4TBV853473C0100 4TBV853474C0100	4TBV853688C0100	VMS TERMINAL OT / XT 1000A for 50% PE/N	VTM1000-50	500	1
<b>4TBV853688C0100</b>							
	OT / XT 1000	4TBV853473C0100 4TBV853474C0100	4TBV853689C0100	VMS TERMINAL OT / XT 1000A	VTM1000	1000	1
<b>4TBV853689C0100</b>							
	OT / XT 1250	4TBV853490C0100	4TBV853690C0100	VMS TERMINAL OT / XT 1250A	VTM1250	1250	1
<b>4TBV853690C0100</b>							



## VMS kits

Boxes for OT/OS installed on mounting plate

	Device type	Enclosure order code	Order code	Description	Type code	Nominal current, A	Pack, pcs.
	OS32-63	4TBV853446C0100	4TBV853691C0100	VMS N feed-through terminal 63A	VTM63FT	63	1
<b>4TBV853691C0100</b>							
	OS100-160	4TBV853446C0100 4TBV853447C0100 4TBV853450C0100	4TBV853216C0100	VMS N feed-through terminal 160A CLAMP	VTM160FT-C	160	1
<b>4TBV853216C0100</b>							
	OS100-160	4TBV853446C0100 4TBV853447C0100 4TBV853450C0100	4TBV853700C0100	VMS N feed-through terminal 160A BOLT	VTM160FT-B	160	1
<b>4TBV853700C0100</b>							
	OS200-250	4TBV853451C0100	4TBV853217C0100	VMS N feed-through terminal 250A length 200mm	VTM250FT-BL	250	1
<b>4TBV853217C0100</b>							
	OS315-400	4TBV853471C0100 4TBV853472C0100	4TBV853218C0100	VMS N feed-through terminal 630A length 200mm	VTM630FT-B	630	
<b>4TBV853218C0100</b>							



**4TBV854356C0100**

### OT Busbars support against short-circuit dynamic stress

- **Must be used together with OT630 - OT1250**
- Mounted to phase busbars
- Installation material (bolts, nuts) is included

Description	Device type	Type code	Order code	Pack, pcs.
VMS Short circuit support for OT630-800	OT630 OT800	VA-TS-OT800	4TBV854355C0100	1
VMS Short circuit support OT1000-1250	OT1000 OT1250	VA-TS-OT1250	4TBV854356C0100	1



VMS kits

Boxes for OT/OS installed on mounting plate



4TBV854202C0100



4TBV854203C0100

OT1000-1250 cable connection kit

- Kit is used to connect incoming cables (feeders) to OT terminals
- Installation material (bolts, nuts) is included

Description	Device type	Type code	Order code	Pack, pcs.
1 pole terminal kit for cable connection OT1000-1250	OT1000-1250	VA-TK-OT1250	4TBV854202C0100	1
OT cable terminals short-circuit support	OT1000-1250	VA-TC-OT1250	4TBV854203C0100	1

## VMS kits

Connecting busbars for OT/OS



4TBV853824C0100



4TBV853825C0100



4TBV853826C0100



4TBV853827C0100

Device type	Enclosure order code	VMS box type	Type of network	Busbar kit application	MBB position*	Busbar kit order code
OT160	4TBV853446C0100 4TBV853450C0100	VMS33/63V	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM	4TBV853805C0100
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	4TBV853806C0100**
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	4TBV853807C0100**
OT160	4TBV853447C0100	VMS43	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM	4TBV853808C0100
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	4TBV853809C0100**
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	4TBV853810C0100**
OT200 OT250	4TBV853446C0100 4TBV853450C0100	VMS33/VMS63V	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM	4TBV853814C0100
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	4TBV853815C0100
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	4TBV853816C0100
OT200 OT250	4TBV853447C0100	VMS43V	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM	4TBV853817C0100
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	4TBV853819C0100
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	4TBV853820C0100
OT400	4TBV853452C0100	VMS64V	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM	4TBV853821C0100
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	4TBV853822C0100
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	4TBV853823C0100

\* Position of Main Busbars (MBB) relative to selected enclosure  
Check following pages for illustrative guide

\*\* The same busbar kit is also used for connecting box with OS160 (see table below)



4TBV853829C0100

**For load break switches OT 160-1250 / OS 160-400****(Kits are applicable only to parallel busbar systems)**

- Connection of incoming/outgoing OT/OS switches to main busbar system
- Without fastening materials

Connecting blocks and T-bolts can be selected Busbar system:  
parallel configuration



Drawings for busbars  
can be found in  
ABB Library

Type code	Description	Cross-section, mm x mm	Nominal current, A	Kits in Pack, pcs.	Busbars in Pack, pcs.
VC33/63V-S160-P	Busbar kit for connecting L1-L3 OT 160A in VMS33/63V if MBB L1-L3 position is TOP/BOT	20 x 2	160	1	3
VC33/63V-SF160-PE-PEN-T/N-PEN-B	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 160A in VMS33/63V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity	20 x 2	160	1	1
VC33/63V-SF160-N-T/PE-B	Busbar kit for connecting 4th pole (N) OT or N_PE Terminal 160A in VMS33/63V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	20 x 2	160	1	1
VC43V-S160-P	Busbar kit for connecting L1-L3 OT 160A in VMS43V if MBB L1-L3 position is TOP/BOT	20 x 2	160	1	3
VC43V-SF160-PE-PEN-T/N-PEN-B	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 160A in VMS43V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity	20 x 2	160	1	1
VC43V-SF160-N-T/PE-B	Busbar kit for connecting 4th pole (N) OT or N_PE Terminal 160A in VMS43V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	20 x 2	160	1	1
VC33-S250-P	Busbar kit for connecting L1-L3 OT 250A in VMS33/63V if MBB L1-L3 position is TOP/BOT	25 x 3	250	1	3
VC33-S250T-PEN/N	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 250A in VMS33/63V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity	25 x 3	250	1	1
VC33-S250B-N/PEN	Busbar kit for connecting 4th pole (N) OT or N_PE Terminal 250A in VMS33/63V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	25 x 3	250	1	1
VC43V-S250-P	Busbar kit for connecting L1-L3 OT 250A in VMS43V if MBB L1-L3 position is TOP/BOT	25 x 3	250	1	3
VC43V-S250-PE-PEN-T/N-PEN-B	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 250A in VMS43V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity	25 x 3	250	1	1
VC43V-S250-N-T/PE-B	Busbar kit for connecting 4th pole (N) OT or N_PE Terminal 250A in VMS43V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	25 x 3	250	1	1
VC64V-S400-P	Busbar kit for connecting L1-L3 OT 400A in VMS64V if MBB L1-L3 position is TOP/BOT	30 x 5	400	1	3
VC64V-S400-PE-PEN-T/N-PEN-B	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 400A in VMS64V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity	30 x 5	400	1	1
VC64V-S400-N-T/PE-B	Busbar kit for connecting 4th pole (N) OT or N_PE Terminal 400A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	30 x 5	400	1	1



## VMS kits

### Connecting busbars for OT/OS

Device type	Enclosure order code	VMS box type	Type of network	Busbar kit application	MBB position*	Busbar kit order code	
OT630	4TBV853473C0100 4TBV853474C0100	VMS64V	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM	4TBV853824C0100	
			TN-C / TN-S	PEN / PE 50%	PEN : TOP / BOTTOM PE : TOP	4TBV853825C0100	
			PE 50% load capacity	PE 50%	PE: BOTTOM	4TBV853826C0100	
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	4TBV853827C0100	
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	4TBV853829C0100	
OT800	4TBV853473C0100 4TBV853474C0100	VMS64V	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM	4TBV853834C0100	
			TN-C / TN-S	PEN / PE 50%	PEN : TOP / BOTTOM PE : TOP	4TBV853835C0100	
			PE 50% load capacity	PE 50%	PE: BOTTOM	4TBV853836C0100	
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	4TBV853837C0100	
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	4TBV853838C0100	
OT1000	4TBV853490C0100	VMS64H	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM	4TBV853839C0100	
			TN-C / TN-S	PEN / PE 50%	PEN : TOP / BOTTOM PE : TOP	4TBV853842C0100	
			TN-S	PE 50%	PE: BOTTOM	4TBV853841C0100	
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	4TBV853840C0100	
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	4TBV853843C0100	
OT1250	4TBV853490C0100	VMS64H	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM	4TBV853844C0100	
			TN-C / TN-S	PEN / PE 50%	PEN : TOP / BOTTOM PE : TOP	4TBV853842C0100	
			TN-S	PE 50%	PE: BOTTOM	4TBV853841C0100	
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	4TBV853846C0100	
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	4TBV853848C0100	

\* Position of Main Busbars (MBB) relative to selected enclosure. TOP is when MBB is located above enclosure, BOTTOM is below  
Check following pages for illustrative guide

\*\* The same busbar kit is also used for connecting box with OS160 (see table below)

Type code	Description	Cross-section, mm x mm	Nominal current, A	Kits in Pack, pcs.	Busbars in Pack, pcs.
VC64V-S630-P	Busbar kit for connecting L1-L3 OT 630A in VMS64V if MBB L1-L3 position is TOP/BOT	30 x 10	630	1	3
VC64V-S630-PE-PEN-T/ N-PEN-B-0.5	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 630A in VMS64V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 50% load capacity	30 x 5	315	1	1
VC64V-S630-N-T/PE-B-0.5	Busbar kit for connecting 4th pole (N) OT or N_PE Terminal 630A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 50% load capacity	30 x 5	315	1	1
VC64V-S630-PE-PEN-T/ N-PEN-B	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 630A in VMS64V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity	30 x 10	630	1	1
VC64V-S630-N-T/PE-B	Busbar kit for connecting 4th pole (N) OT or N_PE Terminal 630A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	30 x 10	630	1	1
VC64V-S800-P	Busbar kit for connecting L1-L3 OT 800A in VMS64V if MBB L1-L3 position is TOP/BOT	40 x 10	800	1	3
VC64V-S800-PE-PEN-T/ N-PEN-B-0.5	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 800A in VMS64V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 50% load capacity	20 x 10	400	1	1
VC64V-S800-N-T/PE-B-0.5	Busbar kit for connecting 4th pole (N) OT or N_PE Terminal 800A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 50% load capacity	20 x 10	400	1	1
VC64V-S800-PE-PEN-T/ N-PEN-B	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 800A in VMS64V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity	40 x 10	800	1	1
VC64V-S800-N-T/PE-B	Busbar kit for connecting 4th pole (N) OT or N_PE Terminal 800A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	40 x 10	800	1	1
VC64H-S1000-P	Busbar kit for connecting L1-L3 OT 1000A in VMS64H if MBB L1-L3 position is TOP/BOT	50 x 10	1000	1	3
VC64H-S1250-PE-PEN-T/ N-PEN-B-0.5	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 1000/1250A in VMS64H PE/PEN = TOP or MBB N/PEN position is BOTTOM, 50% load capacity	30 x 10	630	1	1
VC33-S1250B-PE	Busbar kit for connecting 4th pole (N) OT or N_PE Terminal 1000/1250A in VMS64H PE = BOTTOM or MBB N position is TOP, 50% load capacity	30 x 10	630	1	1
VC64H-S1000-PE-PEN-T/ N-PEN-B	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 1000A in VMS64H PE/PEN = TOP or MBB N/PEN position is BOTTOM, 100% load capacity	50 x 10	1000	1	1
VC64H-S1000-N-T/PE-B	Busbar kit for connecting 4th pole (N) OT or N_PE Terminal 1000A in VMS64H PE = BOTTOM or MBB N position is TOP, 100% load capacity	50 x 10	1000	1	1
VC64H-S1250-P	Busbar kit for connecting L1-L3 OT 1250A in VMS64H if MBB L1-L3 position is TOP/BOT	60 x 10	1250	1	3
VC33-S1250T-PE	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 1000/1250A in VMS64H PE/PEN = TOP or MBB N/PEN position is BOTTOM, 50% load capacity	30 x 10	630	1	1
VC64H-S1250-N-T/PE-B-0.5	Busbar kit for connecting 4th pole (N) OT or N_PE Terminal 1000/1250A in VMS64H PE = BOTTOM or MBB N position is TOP, 50% load capacity	30 x 10	630	1	1
VC64H-S1250-PE-PEN-T/ N-PEN-B	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 1250A in VMS64H PE/PEN = TOP or MBB N/PEN position is BOTTOM, 100% load capacity	60 x 10	1250	1	1
VC64H-S1250-N-T/PE-B	Busbar kit for connecting 4th pole (N) OT or N_PE Terminal 1250A in VMS64H PE = BOTTOM or MBB N position is TOP, 100% load capacity	60 x 10	1250	1	1

## VMS kits

### Connecting busbars for OT/OS

Device type	Enclosure order code	VMS box type	Type of network	Application	MBB position*	Busbar kit order code
OS160	4TBV853446C0100 4TBV853450C0100	VMS33/VMS63V	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM	4TBV853849C0100
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	4TBV853806C0100
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	4TBV853807C0100
			TN-S	PE/N 100%	N 4th pole: TOP	4TBV854252C0100
			TN-S	PE/N 100%	N 4th pole: BOTTOM	4TBV854209C0100
OS160	4TBV853447C0100	VMS43V	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM	4TBV853852C0100
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	4TBV853809C0100
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	4TBV853810C0100
			TN-S	PE/N 100%	N 4th pole: TOP	4TBV854210C0100
			TN-S	PE/N 100%	N 4th pole: BOTTOM	4TBV854211C0100
OS200 OS250	4TBV853451C0100	VMS64V	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM	4TBV853855C0100
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	4TBV853856C0100
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	4TBV853857C0100
			TN-S	PE/N 100%	N 4th pole: TOP	4TBV854212C0100
			TN-S	PE/N 100%	N 4th pole: BOTTOM	4TBV854213C0100
OS315 OS400	4TBV853471C0100 4TBV853472C0100	VMS64V	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM	4TBV853858C0100
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	4TBV853859C0100
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	4TBV853860C0100
			TN-S	PE/N 100%	N 4th pole: TOP	4TBV854007C0100
			TN-S	PE/N 100%	N 4th pole: BOTTOM	4TBV854008C0100

\* Position of Main Busbars (MBB) relative to selected enclosure. TOP is when MBB is located above enclosure, BOTTOM is below  
Check following pages for illustrative guide

Type code	Description	Cross-section, mm x mm	Nominal current, A	Kits in Pack, pcs.	Busbars in Pack, pcs.
VC33/63V-F160-P	Busbar kit for connecting L1-L3 OS 160A in VMS33/63V if MBB L1-L3 position is TOP/BOT	20 x 2	160	1	3
VC33-SF160T-PEN/N	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 160A in VMS33/63V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity	20 x 2	160	1	1
VC33-SF160B-N/PEN	Busbar kit for connecting 4th pole (N) OT or N_PE Terminal 160A in VMS33/63V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	20 x 2	160	1	1
VC33/63V-F160-N-T	Busbar kit for connecting 4th pole (N) OS 160A in VMS33/63V if MBB N position is TOP, 100% load capacity	20 x 2	160	1	1
VC33/63V-F160-N-B	Busbar kit for connecting 4th pole (N) OS 160A in VMS33/63V if MBB N position is BOTTOM, 100% load capacity	20 x 2	160		
VC43V-F160-P	Busbar kit for connecting L1-L3 OS 160A in VMS43V if MBB L1-L3 position is TOP/BOT	20 x 2	160	1	3
VC43-SF160T-PEN/N	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 160A in VMS43V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity	20 x 2	160	1	1
VC43-SF160B-N/PEN	Busbar kit for connecting 4th pole (N) OT or N_PE Terminal 160A in VMS43V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	20 x 2	160	1	1
VC43V-F160-N-T	Busbar kit for connecting 4th pole (N) OS 160A in VMS43V if MBB N position is TOP, 100% load capacity	20 x 2	160	1	1
VC43V-F160-N-B	Busbar kit for connecting 4th pole (N) OS 160A in VMS43V if MBB N position is BOTTOM, 100% load capacity	20 x 2	160	1	1
VC64V-F250-P	Busbar kit for connecting L1-L3 OS 250A in VMS64V if MBB L1-L3 position is TOP/BOT	25 x 3	250	1	3
VC64V-F250-PE-PEN-T/ N-PEN-B	Busbar kit for connecting 4th pole (N) OS or PEN_PE_N Terminal 250A in VMS64V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity	25 x 3	250	1	1
VC64V-F250-N-T/PE-B	Busbar kit for connecting 4th pole (N) OS or N_PE Terminal 250A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	25 x 3	250	1	1
VC64V-F250-N-T	Busbar kit for connecting 4th pole (N) OS 250A in VMS64V if MBB N position is TOP, 100% load capacity	25 x 3	250	1	1
VC64V-F250-N-B	Busbar kit for connecting 4th pole (N) OS 250A in VMS64V if MBB N position is BOTTOM, 100% load capacity	25 x 3	250	1	1
VC64V-F400-P	Busbar kit for connecting L1-L3 OS 400A in VMS64V if MBB L1-L3 position is TOP/BOT	30 x 5	400	1	3
VC64V-F400-PE-PEN-T/ N-PEN-B	Busbar kit for connecting 4th pole (N) OS or PEN_PE_N Terminal 400A in VMS64V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity	30 x 5	400	1	1
VC64V-F400-N-T/PE-B	Busbar kit for connecting 4th pole (N) OS or N_PE Terminal 400A in VMS64V as PE = BOTTOM or MBB N position is TOP, 100% load capacity	30 x 5	400	1	1
VC64V-F400-N-T	Busbar kit for connecting 4th pole (N) OS 400A in VMS64V if MBB N position is TOP, 100% load capacity	30 x 5	400	1	1
VC64V-F400-N-B	Busbar kit for connecting 4th pole (N) OS 400A in VMS64V if MBB N position is BOTTOM, 100% load capacity	30 x 5	400	1	1



## VMS kits

Connecting busbars for OT/OS



4TBV854155C0100



4TBV853806C0100



4TBV853807C0100

Device type	Enclosure order code	VMS box type	Type of network	Application	MBB position*	Busbar kit order code
Changeover system 2x OT160	4TBV853429C0100	VMS32H	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM	4TBV854155C0100
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	4TBV853806C0100
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	4TBV853807C0100
Changeover system 2x OT200-250	4TBV853429C0100	VMS33	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM	4TBV854156C0100
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	4TBV853815C0100
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	4TBV853816C0100
Changeover system 2x OS160	4TBV853429C0100	VMS63H	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM	4TBV853849C0100**
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	4TBV853806C0100
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	4TBV853807C0100

\* Position of Main Busbars (MBB) relative to selected enclosure. TOP is when MBB is located above enclosure, BOTTOM is below  
Check following pages for illustrative guide

\*\* Two kits to be ordered for changeover systems

**For changeover systems with load break switches OT160-250 / OS160**

**(Kits are applicable only to parallel busbar systems)**

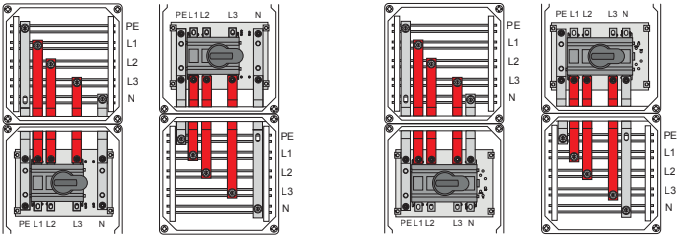
- Connection of incoming OT/OS switches to main busbar system
- Without fastening materials

Connecting blocks and T-bolts can be selected Busbar system:  
parallel configuration

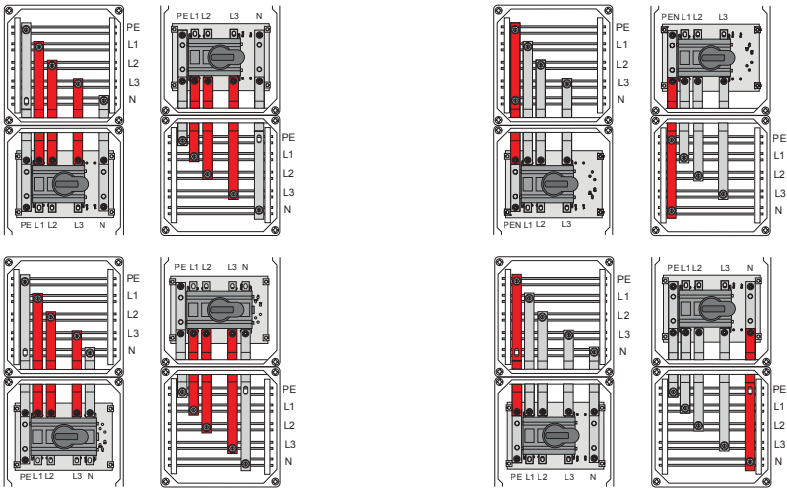
Type code	Description	Cross-section, mm x mm	Nominal current, A	Kits in Pack, pcs.	Busbars in Pack, pcs.
VC63H-C160-P	Busbar kit for connecting Changeover system 2x OT160A in VMS33/63V if MBB L1-L3 position is TOP/BOT (6 pcs.)	20 x 2	160	1	6
VC33-SF160T-PEN/N	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 160A in VMS33/63V PE/PEN = TOP, N/PEN = BOTTOM, 100% load capacity	20 x 2	160	1	1
VC33-SF160B-N/PEN	Busbar kit for connecting 4th pole (N) OT or N_PE Terminal 160A in VMS33/63V PE = BOTTOM, N = TOP, 100% load capacity	20 x 2	160	1	1
VC63H-C250-P	Busbar kit for connecting Changeover system 2x OT200-250A in VMS33/63V if MBB L1-L3 position is TOP/BOT (6 pcs.)	25 x 3	250	1	6
VC33-S250T-PEN/N	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 250A in VMS33/63V PE/PEN = TOP, N/PEN = BOTTOM, 100% load capacity	25 x 3	250	1	1
VC33-S250B-N/PEN	Busbar kit for connecting 4th pole (N) OT or N_PE Terminal 250A in VMS33/63V PE = BOTTOM, N = TOP, 100% load capacity	25 x 3	250	1	1
VC33-F160-P	Busbar kit for connecting L1-L3 OS 160A in VMS33/63V if MBB L1-L3 position is TOP/BOT**	20 x 2	160	1	3
VC33-SF160T-PEN/N	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 160A in VMS33/63V PE/PEN = TOP, N/PEN = BOTTOM, 100% load capacity	20 x 2	160	1	1
VC33-SF160B-N/PEN	Busbar kit for connecting 4th pole (N) OT or N_PE Terminal 160A in VMS33/63V PE = BOTTOM, N = TOP, 100% load capacity	20 x 2	160	1	1

VMS kits

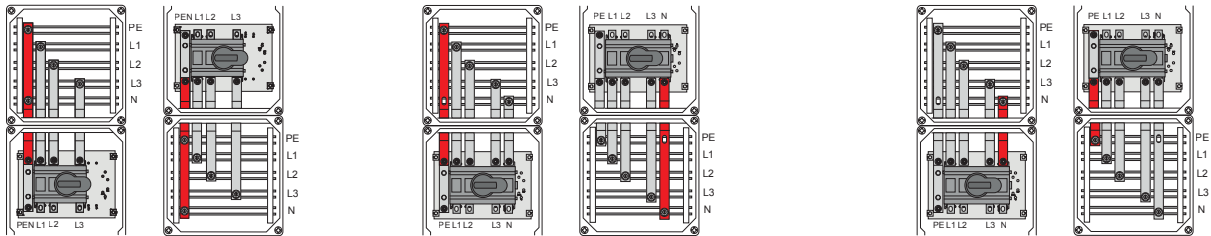
Connecting busbars for OT/OS



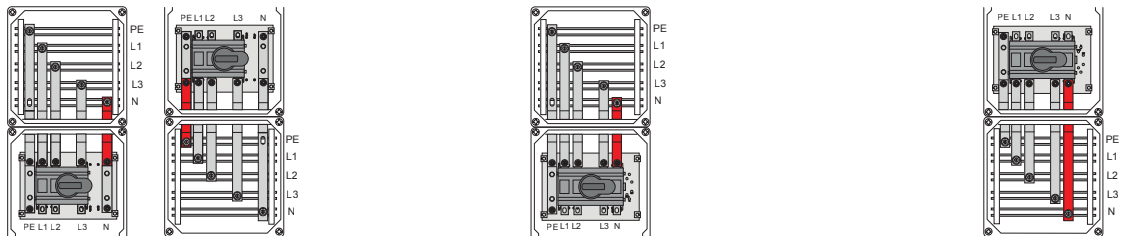
Device/VMS BOX	PHASE 1-3
OT160 VMS33/63V	4TBV853805C0100
OT160 VMS43V	4TBV853808C0100
OT200-250 VMS33/63V	4TBV853814C0100
OT200-250 VMS43V	4TBV853817C0100
OT315-400 VMS64V	4TBV853821C0100
OT630 VMS 64V	4TBV853824C0100
OT800 VMS 64V	4TBV853834C0100
OT1000 VMS 64H	4TBV853839C0100
OT1250 VMS 64H	4TBV853844C0100



Device/VMS BOX	PHASE 1-3	PEN : TOP / BOTTOM PE : TOP N: BOTTOM
OS160 VMS33/63V	4TBV853849C0100	4TBV853806C0100
OS160 VMS43V	4TBV853852C0100	4TBV853809C0100
OS200-250 VMS64V	4TBV853855C0100	4TBV853856C0100
OS315-400 VMS64V	4TBV853858C0100	4TBV853859C0100



PEN : TOP / BOTTOM PE : TOP N: BOTTOM		PE : BOTTOM N: TOP
100% PE/N	4TBV853806C0100	4TBV853807C0100
100% PE/N	4TBV853809C0100	4TBV853810C0100
100% PE/N	4TBV853815C0100	4TBV853816C0100
100% PE/N	4TBV853819C0100	4TBV853820C0100
100% PE/N	4TBV853822C0100	4TBV853823C0100
100% PE/N	4TBV853827C0100	4TBV853829C0100
50% PE	4TBV853825C0100	4TBV853826C0100
100% PE/N	4TBV853837C0100	4TBV853838C0100
50% PE	4TBV853835C0100	4TBV853836C0100
100% PE/N	4TBV853840C0100	4TBV853843C0100
50% PE	4TBV853842C0100	4TBV853841C0100
100% PE/N	4TBV853846C0100	4TBV853848C0100
50% PE	4TBV853842C0100	4TBV853841C0100



PE : BOTTOM N: TOP	N 4th pole: TOP	N 4th pole: BOTTOM
4TBV853807C0100	4TBV854252C0100	4TBV854209C0100
4TBV853810C0100	4TBV854210C0100	4TBV854211C0100
4TBV853857C0100	4TBV854212C0100	4TBV854213C0100
4TBV853860C0100	4TBV854007C0100	4TBV854008C0100



Notes

Notes section with horizontal lines for writing.



## VMS kits

Boxes for OT + fuse holders combination installed on DIN-rail



4TBV853611C0100



4TBV853613C0100

### For load break switch OT 16-160A + fuse holders installed on DIN rail

- For 3-pole or 4-pole OT devices
- Base with four open sides without end plates
- DIN-rails 35x7.3 mm for OT and for E27 D type fuse bases
- Pre-drilled metal mounting plate for E33 D type fuse bases
- Pre-drilled Pertinax mounting plate for DIN type fuse bases
- Protective plate with cut-out for D type fuse bases
- Transparent cover with cut-out for OT handle shaft
- PE/N Terminals are not included

Additional info can be found in User Manual:



Description	External dimensions (HxWxD, mm)	Device type	Max qty devices*	Max device current, A	Fuse base type	Max fuse current, A	Fused poles quantity, pcs.	Type code	Order code	Pack, pcs.
VMS32V for OT40F + D fuse base E27-25A	320 x 220 x 179	OT40	1	40	D E27	25	3	VB32VT-SH40/4	4TBV853611C0100	1
VMS32V for OT63F + D fuse base E33-63A	320 x 220 x 179	OT63	1	63	D E33	63	3	VB32VT-SH63/4	4TBV853610C0100	1
VMS43V for 1x OT63F-125F + NH00 fuse base	440 x 320 x 179	OT63-125F	1	125	DIN00	125	3	VB43VT-SH125/4	4TBV853612C0100	1
VMS43V for 2x OT63F-125F + NH00 fuse base	440 x 320 x 179	OT63-125F	2	125	DIN00	125	6	VB43VT-SH2X125/4	4TBV853613C0100	1



4TBV854099C0100

### Cable sets for connections between OT and fuse holders

- 3 cables in one connection kit
- Double insulation
- With cable lugs/ferrules on both ends

Description	Cross-section, mm²	Nominal current, A	Length, mm	Kits in Pack, pcs.	Cables in Pack, pcs.	Type code	Order code
Cable set for connecting OT40 with D E27 in VMS32V	6	40	145	1	3	VK32V-40P	4TBV854096C0100
Cable set for connecting OT63 with D E33 in VMS32V	10	63	140	1	3	VK32V-40P	4TBV854098C0100
Cable set for connecting OT80 with OFAZ00 in VMS43V	16	80	165	1	3	VK43V-80P	4TBV854099C0100
Cable set for connecting OT125 with OFAZ00 in VMS43V	35	125	165	1	3	VK43V-125P	4TBV854154C0100

## VMS kits

Boxes for OT + OFAZ fuse holders combination installed on mounting plate



4TBV853631C0100

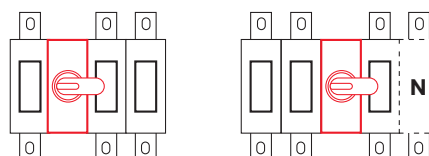
### For load break switch OT 160-800A + fuse holders OFAZ00-3 installed on mounting plate

- For 3-pole or 4-pole devices
- Base with four open sides without end plates
- Pertinax mounting plates for OFAZ type fuse holders and OT load break switches
- Plates are pre-drilled and marked for correct positioning of devices
- Transparent cover with cut-out for OT handle shaft
- PE/N Terminals are not included (use selection table below)

**It is always recommended to apply extra box for cable management**

#### Configuration of compatible OT/OS:

Front operated  
Configuration 12, 22:



Additional info can be found in User Manual:



Description	External dimensions (HxWxD, mm)	Device type	Max quantity devices	Max device current, A	Fuse base type	Fused poles quantity, pcs.	Type code	Order code	Pack, pcs.
VMS43V for OT160 + OFAZ00	440 x 320 x 179	OT	1	160	OFAZ00	3	VB43VT-SH160/4	4TBV853614C0100	1
VMS63V for OT160 + OFAZ00	640 x 320 x 179	OT	1	160	OFAZ00	3	VB63VT-SH160/4	4TBV853615C0100	1
VMS63V for OT250 + OFAZ1	640 x 320 x 179	OT	1	250	OFAZ1	3	VB63VT-SH250/4	4TBV853630C0100	1
VMS64V for OT315-400 + OFAZ2	640 x 440 x 179	OT	2	400	OFAZ2	6	VB64VT-SH400/4	4TBV853631C0100	1
VMS64V for OT630 + OFAZ3 TOP*	640 x 440 x 179	OT	1	630	OFAZ3	3	VB64VT-SH630/4T	4TBV853632C0100	1
VMS64V for OT630 + OFAZ3 BOT**	640 x 440 x 179	OT	1	630	OFAZ3	3	VB64VT-SH630/4B	4TBV853633C0100	1

\* TOP: device is positioned in the upper part of enclosure, main busbar system (MBB) is located above enclosure; 3p/4p - quantity of device poles

\*\* BOT: device is positioned in the lower part of enclosure, main busbar system (MBB) is located below enclosure; 3p/4p - quantity of device poles

## VMS kits selection

Boxes for OT + OFAZ fuse holders combination installed on mounting plate



4TBV854093C0100

### Busbar kits for connecting OT and fuse holders

- 3 copper busbars in one kit
- Busbars are prepunched for connecting to devices terminals
- Installation material (bolts, nuts, etc.) is not included

Description	Cross-section, mm x mm	Nominal current, A	Kits in Pack, pcs.	Busbars in Pack, pcs.	Type code	Order code	Enclosure order code
Busbar kit for OT160 + OFAZ00 in VMS43	20 x 2	160	1	3	VL43V-160P	4TBV854024C0100	4TBV853614C0100
Busbar kit for OT160 + OFAZ00 in VMS63	20 x 2	160	1	3	VL63V-160P	4TBV854025C0100	4TBV853615C0100
Busbar kit for OT250 + OFAZ1 in VMS63	25 x 3	250	1	3	VL63V-250P	4TBV854026C0100	4TBV853630C0100
Busbar kit for OT315/400 + OFAZ2 in VMS64	30 x 5	400	1	3	VL64V-400P	4TBV854028C0100	4TBV853631C0100
Busbar kit for OT630 + OFAZ3 in VMS64	30 x 10	630	1	3	VL64V-630P	4TBV854093C0100	4TBV853632C0100

### Terminals

	Description	Device type	Nominal current, A	Enclosure order code	Type code	Order code	Pack, pcs.
	VMS TERMINAL OT / XT 160A	OT / XT 160	160	4TBV853614C0100 4TBV853615C0100	VTM160	4TBV853681C0100	1
	VMS N feed-through terminal 160A CLAMP	OT / XT 160	160	4TBV853614C0100 4TBV853615C0100	VTM-160FT-C	4TBV853216C0100	1
	VMS N feed-through terminal 160A BOLT	OT / XT 160	160	4TBV853614C0100 4TBV853615C0100	VTM-160FT-B	4TBV853700C0100	1
	VMS TERMINAL OT / XT 250A	OT / XT 200 OT / XT 250	250	4TBV853630C0100	VTM250	4TBV853682C0100	1
	VMS N feed-through terminal 250A length 100mm	OT / XT 200 OT / XT 250	250	4TBV853630C0100	VTM-250FT-BS	4TBV853780C0100	1
	VMS TERMINAL OT / XT 400A	OT / XT 315 OT / XT 400	400	4TBV853631C0100	VTM400	4TBV853683C0100	1
	VMS TERMINAL OT / XT 630A for 50% PE/N	OT / XT 630	315	4TBV853632C0100 4TBV853633C0100	VTM630-50	4TBV853684C0100	1
	VMS TERMINAL OT / XT 630A	OT / XT 630	630	4TBV853632C0100 4TBV853633C0100	VTM630	4TBV853685C0100	1

## VMS kits

Connecting busbars for OT + fuse holders combination



4TBV853861C0100



4TBV853862C0100



4TBV853863C0100



4TBV854003C0100



4TBV854004C0100

Device type	Enclosure order code	VMS box type	Type of network	Application	Application vs MBB position*	Connection side to MBB
DIN00 + OT160	4TBV853614C0100	VMS43V	TN-C / TN-S	PHASE L1-L3	PHASE 1-3 : TOP / BOTTOM	OT Switch side
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	OT Switch side
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	OT Switch side
DIN00 + OT160	4TBV853614C0100	VMS43V	TN-C / TN-S	PHASE L1-L3	PHASE 1-3: TOP / BOTTOM	OFAZ Fuse holder side
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	OFAZ Fuse holder side
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	OFAZ Fuse holder side
DIN00 + OT160	4TBV853615C0100	VMS63V	TN-C / TN-S	PHASE L1-L3	PHASE 1-3 : TOP / BOTTOM	OT Switch side
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	OT Switch side
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	OT Switch side
DIN00 + OT160	4TBV853615C0100	VMS63V	TN-C / TN-S	PHASE L1-L3	PHASE 1-3 : TOP / BOTTOM	OFAZ Fuse holder side
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	OFAZ Fuse holder side
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	OFAZ Fuse holder side

\* Position of Main Busbars (MBB) relative to selected enclosure. TOP is when MBB is located above enclosure, BOTTOM is below  
Check following pages for illustrative guide



4TBV854005C0100

**For combinations of load break switch OT 160-800A with fuse holders OFAZ 00-3**

**(Kits are applicable only to parallel busbar systems)**

- Connection of incoming/outgoing OT + Fuse holders combinations to Main busbar (MBB) system
- Without fastening materials

Connecting blocks and T-bolts can be selected Busbar system: parallel configuration

Drawings for busbars can be found in ABB Library



Busbar kit order code	Type code	Description	Cross-section, mm x mm	Nominal current, A	Kits in Pack, pcs.	Busbars in Pack, pcs.
4TBV853811C0100	VC43V-S160-Plf	Busbar kit for connecting L1-L3 OT160A + OFAZ00 in VMS43V if MBB L1-L3 position is TOP/BOT. L1-L3 connection to be done from OT switch to MBB.	20 x 2	160	1	3
4TBV853812C0100	VC43V-S160-PE-PEN-T/N-PEN-B-lf	Busbar kit for connecting 4th pole (N) OT160A + OFAZ00 or PEN_PE_N Terminal 160A in VMS43V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity. L1-L3 connection to be done from OT switch to MBB.	20 x 2	160	1	1
4TBV853813C0100	VC43V-S160-N-T/PE-B-lf	Busbar kit for connecting 4th pole (N) OT160A + OFAZ00 / N_PE Terminal 160A in VMS43V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity. L1-L3 connection to be done from OT switch to MBB.	20 x 2	160	1	1
4TBV853861C0100	VC43V-SH160-P	Busbar kit for connecting L1-L3 OT160A + OFAZ00 in VMS43V if MBB L1-L3 position is TOP/BOT. L1-L3 connection to be done from OFAZ fuse holder to MBB.	20 x 2	160	1	3
4TBV853862C0100	VC43V-SH160-PE-PEN-T/N-PEN-B	Busbar kit for connecting 4th pole (N) OT160A + OFAZ00 or PEN_PE_N Terminal 160A in VMS43V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity. L1-L3 connection to be done from OFAZ fuse holder to MBB.	20 x 2	160	1	1
4TBV853863C0100	VC43V-SH160-N-T/PE-B	Busbar kit for connecting 4th pole (N) OT160A + OFAZ00 / N_PE Terminal 160A in VMS43V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity. L1-L3 connection to be done from OFAZ fuse holder to MBB.	20 x 2	160	1	1
4TBV854003C0100	VC63V-SH160-P	Busbar kit for connecting L1-L3 OT160A + OFAZ00 in VMS63V if MBB L1-L3 position is TOP/BOT. L1-L3 connection to be done from OFAZ fuse holder to MBB.	20 x 2	160	1	3
4TBV854004C0100	VC63V-SH160-PE-PEN-T/N-PEN-B	Busbar kit for connecting 4th pole (N) OT160A + OFAZ00 or PEN_PE_N Terminal 160A in VMS63V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity. L1-L3 connection to be done from OFAZ fuse holder to MBB.	20 x 2	160	1	1
4TBV854005C0100	VC63V-SH250-P	Busbar kit for connecting 4th pole (N) OT160A + OFAZ00 / N_PE Terminal 160A in VMS63V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity. L1-L3 connection to be done from OFAZ fuse holder to MBB.	20 x 2	160	1	1
4TBV853805C0100	VC33-S160-P	Busbar kit for connecting L1-L3 OT 160A in VMS33/63V if MBB L1-L3 position is TOP/BOT	20 x 2	160	1	3
4TBV853806C0100	VC33-SF160T-PEN/N	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 160A in VMS33/63V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity.	20 x 2	160	1	1
4TBV853807C0100	VC33-SF160B-N/PEN	Busbar kit for connecting 4th pole (N) OT / N_PE Terminal 160A in VMS33/63V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity.	20 x 2	160	1	1



## VMS kits

### Connecting busbars for OT + fuse holders combination

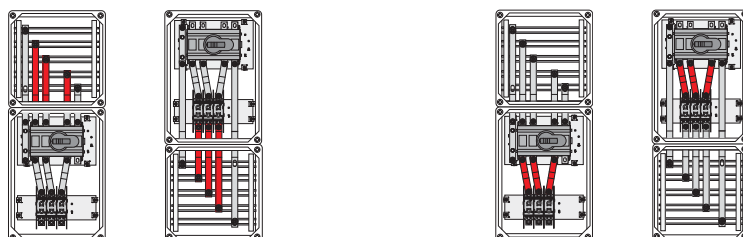
Device type	Enclosure order code	VMS box type	Type of network	Application	Application vs MBB position*	Connection side to MBB**
DIN1 + OT250	4TBV853630C0100	VMS63V	TN-C / TN-S	PHASE L1-L3	PHASE 1-3 : TOP / BOTTOM	OT Switch side
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	OT Switch side
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	OT Switch side
DIN1 + OT250	4TBV853630C0100	VMS63V	TN-C / TN-S	PHASE L1-L3	PHASE 1-3 : TOP / BOTTOM	OFAZ Fuse holder side
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	OFAZ Fuse holder side
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	OFAZ Fuse holder side
DIN2 + OT315/400	4TBV853631C0100	VMS64V	TN-C / TN-S	PHASE L1-L3	PHASE 1-3 : TOP / BOTTOM	OT Switch side
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	OT Switch side
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	OT Switch side
DIN2 + OT315/400	4TBV853631C0100	VMS64V	TN-C / TN-S	PHASE L1-L3	PHASE 1-3 : TOP / BOTTOM	OFAZ Fuse holder side
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	OFAZ Fuse holder side
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	OFAZ Fuse holder side
DIN3 + OT630	4TBV853632C0100 4TBV853633C0100	VMS64V	TN-C / TN-S	PHASE	TOP / BOTTOM	OT Switch side
			TN-C / TN-S	PEN / PE 50%	PEN : TOP / BOTTOM PE : TOP	OT Switch side
			TN-S	PE 50%	PE: BOTTOM	OT Switch side
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	OT Switch side
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	OT Switch side
DIN3 + OT630	4TBV853632C0100 4TBV853633C0100	VMS64V	TN-C / TN-S	PHASE	TOP / BOTTOM	OFAZ Fuse holder side
			TN-C / TN-S	PEN / PE 50%	PEN : TOP / BOTTOM PE : TOP	OFAZ Fuse holder side
			TN-S	PE 50%	PE: BOTTOM	OFAZ Fuse holder side
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM	OFAZ Fuse holder side
			TN-S	PE/N 100%	PE : BOTTOM N: TOP	OFAZ Fuse holder side

\* Position of Main Busbars (MBB) relative to selected enclosure. TOP is when MBB is located above enclosure, BOTTOM is below  
Check following pages for illustrative guide

Busbar kit order code	Type code	Description	Cross- section, mm x mm	Nominal current, A	Kits in Pack, pcs.	Busbars in Pack, pcs.
4TBV853814C0100	VC33/63V-S250-P	Busbar kit for connecting L1-L3 OT 250A in VMS33/63V if MBB L1-L3 position is TOP/BOT.	25 x 3	250	1	3
4TBV853815C0100	VC33/63V-S250-PE-PEN-T/N-PEN-B	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 250A in VMS33/63V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity.	25 x 3	250	1	1
4TBV853816C0100	VC33/63V-S250-N-T/PE-B	Busbar kit for connecting 4th pole (N) OT / N_PE Terminal 250A in VMS33/63V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity.	25 x 3	250	1	1
4TBV854006C0100	VC63-SH250-P	Busbar kit for connecting L1-L3 OT250A + OFAZ1 in VMS63V if MBB L1-L3 position is TOP/BOT. L1-L3 connection to be done from OFAZ fuse holder to MBB.	25 x 3	250	1	3
	Please use cable connection					
	Please use cable connection					
4TBV853821C0100	VC33-S400-P	Busbar kit for connecting L1-L3 OT 400A in VMS64V if MBB L1-L3 position is TOP/BOT.	30 x 5	400	1	3
4TBV853822C0100	VC33-S400T-PEN/N	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 400A in VMS64V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity.	30 x 5	400	1	1
4TBV853823C0100	VC33-S400B-N/PEN	Busbar kit for connecting 4th pole (N) OT / N_PE Terminal 400A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity.	30 x 5	400	1	1
4TBV854009C0100	VC64V-SH400-P	Busbar kit for connecting L1-L3 OT400A + OFAZ2 in VMS64V if MBB L1-L3 position is TOP/BOT. L1-L3 connection to be done from OFAZ fuse holder to MBB.	30 x 5	400	1	3
4TBV854011C0100	VC64V-SH400-PE-PEN-T/N-PEN-B	Busbar kit for connecting 4th pole (N) OT400A + OFAZ2 or PEN_PE_N Terminal 400A in VMS64V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity. L1-L3 connection to be done from OFAZ fuse holder to MBB.	30 x 5	400	1	1
4TBV854012C0100	VC64V-SH400-N-T/PE-B	Busbar kit for connecting 4th pole (N) OT400A + OFAZ2 / N_PE Terminal 400A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity. L1-L3 connection to be done from OFAZ fuse holder to MBB.	30 x 5	400	1	1
4TBV853824C0100	VC33-S630-P	Busbar kit for connecting L1-L3 OT 630A in VMS64V if MBB L1-L3 position is TOP/BOT.	30 x 10	630	1	3
4TBV853825C0100	VC33-S630T-PE	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 630A in VMS64V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 50% load capacity.	30 x 5	400	1	1
4TBV853826C0100	VC33-S630B-PE	Busbar kit for connecting 4th pole (N) OT / N_PE Terminal 630A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 50% load capacity.	30 x 5	400	1	1
4TBV853827C0100	VC33-S630T-PEN/N	Busbar kit for connecting 4th pole (N) OT or PEN_PE_N Terminal 630A in VMS64V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity.	30 x 10	630	1	1
4TBV853829C0100	VC33-S630B-PEN/N	Busbar kit for connecting 4th pole (N) OT / N_PE Terminal 630A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity.	30 x 10	630A	1	1
4TBV854013C0100	VC64V-SH630-P	Busbar kit for connecting L1-L3 OT630A + OFAZ3 in VMS64V if MBB L1-L3 position is TOP/BOT. L1-L3 connection to be done from OFAZ fuse holder to MBB.	30 x 10	630	1	3
4TBV854014C0100	VC64V-SH630-PE-PEN-T/N-PEN-B-0.5	Busbar kit for connecting 4th pole (N) OT630A + OFAZ3 or PEN_PE_N Terminal 630A in VMS64V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 50% load capacity. L1-L3 connection to be done from OFAZ fuse holder to MBB.	30 x 5	400	1	1
4TBV854015C0100	VC64V-SH630-N-T/PE-B-0.5	Busbar kit for connecting 4th pole (N) OT630A + OFAZ3 / N_PE Terminal 630A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 50% load capacity. L1-L3 connection to be done from OFAZ fuse holder to MBB.	30 x 5	400	1	1
4TBV854016C0100	VC64V-SH630-PE-PEN-T/N-PEN-B	Busbar kit for connecting 4th pole (N) OT630A + OFAZ3 or PEN_PE_N Terminal 630A in VMS64V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity. L1-L3 connection to be done from OFAZ fuse holder to MBB.	30 x 10	630	1	1
4TBV854017C0100	VC64V-SH630-N-T/PE-B	Busbar kit for connecting 4th pole (N) OT630A + OFAZ3 / N_PE Terminal 630A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity. L1-L3 connection to be done from OFAZ fuse holder to MBB.	30 x 10	630A	1	1

## VMS kits

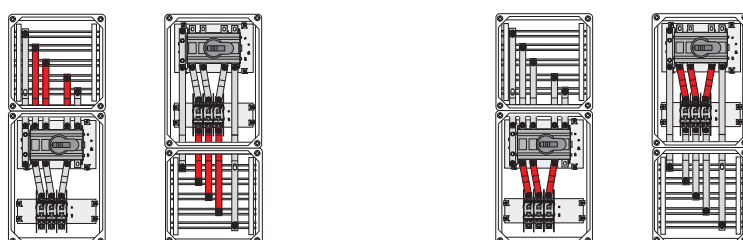
Connecting busbars for OT + fuse holders combination



Devices/VMS BOX	PHASE 1-3 (to busbar system)		PHASE 1-3 (Switch to Fuse)	
	Switch side*	Fuse side**	Switch side*	Fuse side**
OT40 + D FB E27-25A / VMS32V		N.A.		4TBV854293C0100
OT63 + D FB E33-63A / VMS32V		N.A.		4TBV854294C0100
1x OT63-80 + NH00 FB / VMS43V		N.A.		4TBV854295C0100
2x OT63-80 + NH00 FB / VMS43V		N.A.		4TBV854295C0100 2x
1x OT100-125 + NH00 FB / VMS43V		N.A.		4TBV854296C0100
2x OT100-125 + NH00 FB / VMS43V		N.A.		4TBV854296C0100 2x
OT160 + NH00 FB / VMS43V Switch side*		4TBV853811C0100		4TBV854024C0100
OT160 + NH00 FB / VMS43V Fuse side**		4TBV853861C0100		4TBV854024C0100
OT160 + NH00 FB / VMS63V Switch side*		4TBV853805C0100		4TBV854025C0100
OT160 + NH00 FB / VMS63V Fuse side**		4TBV854003C0100		4TBV854025C0100
OT250 + NH1 FB / VMS63V Switch side*		4TBV853814C0100		4TBV854026C0100
OT250 + NH1 FB / VMS63V Fuse side**		4TBV854006C0100		4TBV854026C0100

\* **Switch side:** switch is closest to the busbar system.

\*\* **Fuse side:** fuse base is closest to the busbar system.



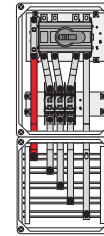
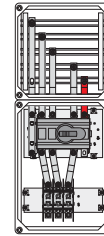
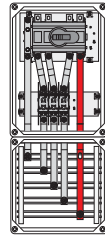
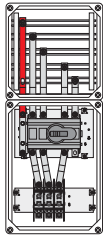
Devices/VMS BOX	PHASE 1-3 (to busbar system)		PHASE 1-3 (Switch to Fuse)	
	Switch side*	Fuse side**	Switch side*	Fuse side**
OT315-400 + NH2 FB / VMS64V Switch side*		4TBV853821C0100		4TBV854028C0100
OT315-400 + NH2 FB / VMS64V Fuse side**		4TBV854009C0100		4TBV854028C0100
OT630 + NH3 FB / VMS64V Switch side*		4TBV853824C0100		4TBV854093C0100
OT630 + NH3 FB / VMS64V Fuse side**		4TBV854013C0100		4TBV854093C0100

\* **Switch side:** switch is closest to the busbar system.

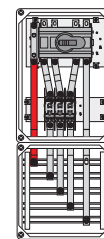
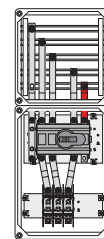
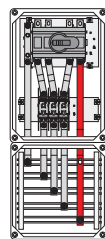
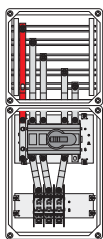
\*\* **Fuse side:** fuse base is closest to the busbar system.

## VMS kits

Connecting busbars for OT + fuse holders combination



PE TOP / N BOT / PEN		N TOP / PE BOT	
Switch side*	Fuse side**	Switch side*	Fuse side**
N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.
N.A.	N.A.	N.A.	N.A.
4TBV853812C0100		4TBV853813C0100	
4TBV853862C0100		4TBV853863C0100	
4TBV853806C0100		4TBV853807C0100	
4TBV854004C0100		4TBV854005C0100	
4TBV853815C0100		4TBV853816C0100	
N.A.	N.A.	N.A.	N.A.



PE TOP / N BOT / PEN		N TOP / PE BOT	
Switch side*	Fuse side**	Switch side*	Fuse side**
4TBV853822C0100		4TBV853823C0100	
4TBV854011C0100		4TBV854012C0100	
100% PE/N	4TBV853827C0100	100% PE/N	4TBV853829C0100
50% PE	4TBV853825C0100	50% PE	4TBV853826C0100
100% PE/N	4TBV854016C0100	100% PE/N	4TBV854017C0100
50% PE	4TBV854014C0100	50% PE	4TBV854015C0100

## VMS kits

Boxes D-type fuse sockets or XLP installed on busbars



4TBV853222C0100



4TBV853634C0100



4TBV853231C0100



4TBV853238C0100

### For XLP and D-type bus mounting fuse sockets installed on busbar

- For 3-pole devices
- Base with four open sides without end plates
- With busbar holders 4TBV828322C0100 for 3f + N + PE
- Busbar center distance 60 mm
- Without busbars
- Protective cover with cut-out for XLP operating handle and D-type fuse sockets
- Trim frame for D-type sockets, Front frames for XLPs and reserve section covers should be ordered separately. Please refer to the guide next page.

Additional info  
can be found in  
User Manual:



Description	External dimensions (HxWxD, mm)	Device type	Max qty devices*	Max device current, A	Max quantity 3-phase load groups*	Type code	Order code	Pack, pcs.
VMS 32 with 60mm busbar system 250/400A for XLP00	320 x 220 x 179	XLP + NH00	1	160	N/A	VB32VT-XZ160/3	4TBV853214C0100	1
VMS 33 with 60mm busbar system 250/400A for XLP00 / D-type fuse sockets	320 x 320 x 179	XLP + NH00	2	160	E18: 8 E27: 5 E33: 4	VB33HT-XZ2x160/3	4TBV853221C0100	1
VMS 43H with 60mm busbar system 250/400A for XLP00 / D-type fuse sockets	320 x 440 x 179	XLP + NH00	2	160	E18: 8 E27: 5 E33: 4	VB43HT-XZ2x160/3	4TBV853634C0100	1
VMS 63H with 60mm busbar system 250/400A for XLP00 / D-type fuse sockets	320 x 640 x 179	XLP + NH00	2 x 2	160	E18: 8 x 2 E27: 5 x 2 E33: 4 x 2	VB63HT-XZ4x160/3	4TBV853222C0100	1
VMS 63V 60mm busbar system 250/400A for XLP00 / D-type fuse sockets TOP**	640 x 320 x 179	XLP + NH00	2	160	E18: 8 E27: 5 E33: 4	VB63VT-XZ2x160/3T	4TBV853223C0100	1
VMS 63V 60mm busbar system 250/400A for XLP00 / D-type fuse sockets BOT***	640 x 320 x 179	XLP + NH00	2	160	E18: 8 E27: 5 E33: 4	VB63VT-XZ2x160/3B	4TBV853224C0100	1
VMS 63V with 60mm busbar system 400A for 3phase XLP1 TOP**	640 x 320 x 179	XLP + NH1	1	250	N/A	VB63VT-XZ250/3T	4TBV853225C0100	1
VMS 63V with 60mm busbar system 400A for 3phase XLP1 BOT***	640 x 320 x 179	XLP + NH1	1	250	N/A	VB63VT-XZ250/3B	4TBV853230C0100	1
VMS 64V with 60mm busbar system 400A for 3phase XLP1 TOP**	640 x 440 x 179	XLP + NH1	1	250	N/A	VB64VT-XZ250/3T	4TBV853231C0100	1
VMS 64V with 60mm busbar system 400A for 3phase XLP1 BOT***	640 x 440 x 179	XLP + NH1	1	250	N/A	VB64VT-XZ250/3B	4TBV853238C0100	1

\* By determining quantity of devices per enclosure use RDF values from table 101 of IEC 61439-2

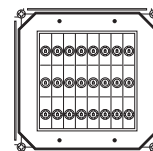
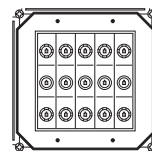
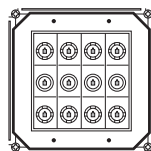
\*\* TOP: device is positioned in the upper part of enclosure

\*\*\* BOT: device is positioned in the lower part of enclosure





## VMS kits

Boxes D-type fuse sockets or XLP installed on busbars



### Accessories for D-type sockets installation

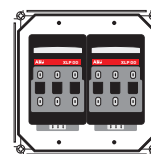
	Description	Type code	E33 socket	E27 socket	E18 socket	Pack, pcs.
	Trim frame VMS	VA-TF	■	■	■	1
<b>4TBV854306C0100</b>						
	Reserve section cover (flat) for closing unused space  H x W: 195 x 54 mm pitch 3 x 18 mm	VA-ZA	if q-ty of load groups (strings) < 4	if q-ty of load groups (strings) < 5	if q-ty of load groups (strings) < 8 (E18 string with 26 mm width) OR if q-ty of load groups (strings) < 6 (E18 string with 36 mm width)	1
<b>4TBV854313C0100</b>						



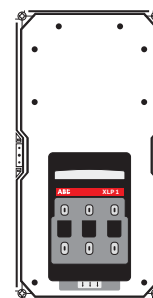
4TBV853214C0100



4TBV853221C0100







4TBV853221C0100






4TBV853225C0100

### Accessories for XLP installation

	Description	Type code	1 x XLP00	1 x XLP00 installed in cut-out for 2 x XLP00	2 x XLP00	1 x XLP1	Pack, pcs.
	Front frame 1x XLP00	ZH425	■	■		additional accessories are not required	1
<b>2CPX062952R9999</b>							
	Front frame 2x XLP00	ZH426			■	additional accessories are not required	1
<b>2CPX062953R9999</b>							
	Reserve section cover (Z-shape) for closing unused space	ZA4P10			■	additional accessories are not required	10
<b>2CPX062374R9999</b>							
	Reserve section cover (flat) for closing unused space  H x W: 195 x 54 mm pitch 3 x 18 mm			■ (3 pcs. needed)		additional accessories are not required	1
<b>4TBV854313C0100</b>							

## VMS kits

Boxes D-type fuse sockets or XLP installed on busbars

	Article	Unit	Type code	Order code
 <b>ZE60</b>	<b>Neozed bus-mounting fuse socket E18, width 26 mm</b> For gauge ring inserts, 3-pole, with covers and nameplates, with E18 thread, safety fuse max. 63 A	1	ZE60	2CPX061045R9999
		10	ZE60P10	2CPX062400R9999
 <b>ZE61</b>	<b>Diazed bus-mounting fuse socket E27, width 42 mm</b> For gauge ring inserts, 3-pole, with covers and nameplates, with E27 thread, safety fuse max. 25 A	1	ZE61	2CPX061046R9999
 <b>ZE62</b>	<b>Diazed bus-mounting fuse socket E33, width 56 mm</b> For gauge ring inserts, 3-pole, with covers and nameplates, with E33 thread, safety fuse max. 63 A	1	ZE62	2CPX061047R9999

## Spare parts and accessories

Spare cover plates

Description	Enclosure code	Type code	Order code	Pack, pcs.
VMS32 Cover plate for DIN00	4TBV853214C0100	VA-CP32V-XLP00	4TBV853239C0100	1
VMS33 Cover plate for DIN00	4TBV853221C0100	VA-CP33-XLP00	4TBV853240C0100	1
VMS63H Cover plate for DIN00	4TBV853222C0100	VA-CP63H-XLP00	4TBV853245C0100	1
VMS63V Cover plate for DIN00	4TBV853223C0100 4TBV853224C0100	VA-CP63V-XLP00	4TBV853247C0100	1
VMS63V Cover plate for DIN1 3p TOP	4TBV853225C0100	VA-CP63V-XLP1-T	4TBV853249C0100	1
VMS63V Cover plate for DIN1 3p BOT	4TBV853230C0100	VA-CP63V-XLP1-B	4TBV853317C0100	1
VMS64V Cover plate for DIN1 3P TOP	4TBV853231C0100	VA-CP64V-XLP1-T	4TBV853318C0100	1
VMS64V Cover plate for DIN1 3P BOT	4TBV853238C0100	VA-CP64V-XLP1-B	4TBV853319C0100	1
VMS43H Cover plate for DIN00	4TBV853634C0100	VA-CP43H-XLP00	4TBV853635C0100	1



Notes

Lined area for notes, consisting of multiple horizontal lines.

## VMS kits

Boxes for OFAZ fuse holders or XLP installed on mounting plate



4TBV853672C0100



4TBV853680C0100

### For OFAZ or XLP installed on mounting plate

- For 3-pole or 4-pole devices
- Base with four open sides without end plates
- Pertinax mounting plates for OFAZ type fuse holders and XLP fuse load break switches
- Plates are pre-drilled and marked for correct positioning of devices
- Protective plate with cut-out for XLP operating handle
- Use blanking cover 2CPX042238R9999 in order to close unused cut-out space
- PE/N Terminals are not included (use selection table below)

Additional info  
can be found in  
User Manual:








Description	External dimensions (HxWxD, mm)	Device type	Max quantity devices*	Max device current, A	Fuse type	Max quantity 3-phase load groups*	Type code	Order code	Pack, pcs.
VMS 32H for OFAZ DIN00 fuse base	220 x 320 x 179	OFAZ	N/A	N/A	NH00	1	VB32HT-H160/4	4TBV853636C0100	1
VMS 33 for 1x/2x OFAZ/XLP DIN00 3-4P	320 x 320 x 179	OFAZ/XLP	2	160	NH00	2	VB33HT-H2x160/4	4TBV853658C0100	1
VMS 43V for 1x/2x OFAZ/XLP DIN00 3-4P	440 x 320 x 179	OFAZ/XLP	2	160	NH00	2	VB43VT-H2x160/4	4TBV853659C0100	1
VMS 43V for OFAZ/XLP DIN1	440 x 320 x 179	OFAZ/XLP	1	250	NH1	1	VB43VT-H250/4	4TBV853660C0100	1
VMS 63H for 1x/4x OFAZ/XLP DIN00 3-4P	320 x 640 x 179	OFAZ/XLP	4	160	NH00	4	VB63HT-H4x160/4	4TBV853672C0100	1
VMS 63V for OFAZ/XLP DIN1 3p	640 x 320 x 179	OFAZ/XLP	1	250	NH1	1	VB63VT-H250/4	4TBV853679C0100	1
VMS 64V for OFAZ/XLP DIN 1/2/3 3-4p	640 x 440 x 179	OFAZ/XLP	1	630	NH1/ NH2/ NH3	1	VB64VT-H630/4	4TBV853680C0100	1

\* By determining quantity of devices per enclosure use RDF values from table 101 of IEC 61439-2




## VMS kits

Boxes for OFAZ fuse holders or XLP installed on mounting plate

### Terminals

Image	Description	Device type	Enclosure order code	Nominal current, A	Type code	Order code	Pack, pcs.
	VMS N feed-through terminal 160A CLAMP	OFAZ00 XLP00	4TBV853636C0100 4TBV853658C0100 4TBV853659C0100 4TBV853672C0100	160	VTM160FT-C	4TBV853216C0100	1
<b>4TBV853216C0100</b>							
	VMS N feed-through terminal 160A BOLT	OFAZ00 XLP00	4TBV853636C0100 4TBV853658C0100 4TBV853659C0100 4TBV853672C0100	160	VTM160FT-B	4TBV853700C0100	1
<b>4TBV853700C0100</b>							
	VMS N feed-through terminal 250A length = 100 mm	2x/4x OFAZ00 2x/4x XLP00	4TBV853658C0100 4TBV853659C0100 4TBV853672C0100	250	VTM250FT-BS	4TBV853780C0100	1
<b>4TBV853780C0100</b>							
	VMS N feed-through terminal 250A length = 200 mm	OFAZ1 XLP1	4TBV853660C0100 4TBV853679C0100	250	VTM250FT-BL	4TBV853217C0100	1
<b>4TBV853217C0100</b>							
	VMS N feed-through terminal 630A length = 200 mm	OFAZ2 OFAZ3 XLP2 XLP3	4TBV853680C0100	630	VTM630FT-B	4TBV853218C0100	1
<b>4TBV853218C0100</b>							

### Other accessories

Image	Description	Type code	Order code	Pack, pcs.
	XLP00 Cable shroud	CS-XLP00-3P	1SEP407793R0001	1
<b>1SEP407793R0001</b>				
	XLP1 Cable shroud	CS-XLP1-3P	1SEP407793R0002	1
<b>1SEP407793R0002</b>				
	XLP2/3 Cable shroud Shroud can not be used in configurations where XLP 2/3 is located in upper part of enclosure.	CS-XLP23-3P	1SEP407952R0001	1
<b>1SEP407952R0001</b>				



## VMS kits

Connecting busbars for XLP/OFAZ



4TBV854172C0100



4TBV854197C0100



4TBV854170C0100



4TBV854171C0100



4TBV854175C0100

Device type	Enclosure order code	VMS box type	Type of network	Application	Application vs MBB position*
OFAZ DIN00	4TBV853636C0100	VMS32H	TN-C / TN-S	PHASE L1-L3	PHASE 1-3 : TOP / BOTTOM
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
OFAZ DIN00	4TBV853658C0100	VMS33	TN-C / TN-S	PHASE L1-L3	PHASE 1-3 : TOP / BOTTOM
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
OFAZ DIN00	4TBV853659C0100	VMS43V	TN-C / TN-S	PHASE L1-L3	PHASE 1-3 : TOP / BOTTOM
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
OFAZ DIN1	4TBV853680C0100	VMS43V / VMS63V / VMS64V	TN-C / TN-S	PHASE L1-L3	PHASE 1-3 : TOP / BOTTOM
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
OFAZ DIN2	4TBV853680C0100	VMS64V	TN-C / TN-S	PHASE L1-L3	PHASE 1-3 : TOP / BOTTOM
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
OFAZ DIN3	4TBV853680C0100	VMS64V	TN-C / TN-S	PHASE L1-L3	PHASE 1-3 : TOP / BOTTOM
			TN-C / TN-S	PEN / PE 50%	PEN : TOP / BOTTOM PE : TOP
			TN-S	PE 50%	PE : BOTTOM
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP

\* Position of Main Busbars (MBB) relative to selected enclosure. TOP is when MBB is located above enclosure, BOTTOM is below  
Check following pages for illustrative guide

\*\* In case of XLP with DIN1 fuse link installed in VMS33 / VMS63V cable connection should be used for PE / N / PEN



4TBV854176C0100

**For fuse holders OFAZ 00-3 and fuse load breakers XLP****(Kits are applicable only to parallel busbar systems)**

- Connection of incoming/outgoing fuse holders OFAZ or XLP fuse load breakers to main busbar system
- Without fastening materials

Connecting blocks and T-bolts can be selected Busbar system:  
parallel configuration

Drawings for busbars  
can be found in  
ABB Library



Busbar kit order code	Type code	Description	Cross-section, mm x mm	Nominal current, A	Pack, pcs.
4TBV854157C0100	VC32H-H160-P	Busbar kit for connecting OFAZ00 in VMS32H if MBB L1-L3 position is TOP/BOT.	20 x 2	160	3
4TBV854158C0100	VC32H-H160-PE-PEN-T/N-PEN-B	Busbar kit for connecting OFAZ00 / PEN PE_N Terminal 160A in VMS32H if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity.	20 x 2	160	1
4TBV854159C0100	VC32H-H160-N-T/PE-B	Busbar kit for connecting OFAZ00 / N_PE Terminal 160A in VMS32H if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity.	20 x 2	160	1
4TBV854160C0100	VC33/63H-H160-P	Busbar kit for connecting OFAZ00 in VMS33 if MBB L1-L3 position is TOP/BOT.	20 x 2	160	3
4TBV854161C0100	VC33/63H-HX160-PE-PEN-T/N-PEN-B	Busbar kit for connecting OFAZ/XLP00 / PEN_PE_N Terminal 160A in VMS33 if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity.	20 x 2	160	1
4TBV854162C0100	VC33/63H-HX160-N-T/PE-B	Busbar kit for connecting OFAZ/XLP00 / N_PE Terminal 160A in VMS33 if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity.	20 x 2	160	1
4TBV854163C0100	VC43V-H160-P	Busbar kit for connecting OFAZ00 in VMS43V if MBB L1-L3 position is TOP/BOT.	20 x 2	160	3
4TBV854164C0100	VC43V-HX160-PE-PEN-T/N-PEN-B	Busbar kit for connecting OFAZ/XLP00 / PEN_PE_N Terminal 160A in VMS43V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity.	20 x 2	160	1
4TBV854165C0100	VC43V-HX160-N-T/PE-B	Busbar kit for connecting OFAZ/XLP00 / N_PE Terminal 160A in VMS43V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity.	20 x 2	160	1
4TBV854166C0100	VC43V/63V/64V-H250-P	Busbar kit for connecting OFAZ1 in VMS43V/63V/64V if MBB L1-L3 position is TOP/BOT.	25 x 3	250	3
Please use cable connection					
Please use cable connection					
4TBV854169C0100	VC64V-H400-P	Busbar kit for connecting OFAZ2 in VMS64V if MBB L1-L3 position is TOP/BOT.	30 x 5	400	3
4TBV854170C0100	VC64V-HX630-PE-PEN-T/N-PEN-B	Busbar kit for connecting OFAZ/XLP2 / PEN_PE_N Terminal 400A in VMS64V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity.	30 x 5	400	1
4TBV854171C0100	VC64V-HX630-N-T/PE-B	Busbar kit for connecting OFAZ/XLP2 / N_PE Terminal 400A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity.	30 x 5	400	1
4TBV854172C0100	VC64V-H630-P	Busbar kit for connecting OFAZ3 in VMS64V if MBB L1-L3 position is TOP/BOT.	30 x 10	800	3
4TBV854170C0100	VC64-HX630T-PE50	Busbar kit for connecting OFAZ/XLP2 / PEN_PE_N Terminal 630A in VMS64V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 50% load capacity.	30 x 5	400	1
4TBV854171C0100	VC64-HX630B-PE50	Busbar kit for connecting OFAZ/XLP2 / N_PE Terminal 630A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 50% load capacity.	30 x 5	400	1
4TBV854175C0100	VC64V-HX630-PE-PEN-T/N-PEN-B	Busbar kit for connecting OFAZ/XLP3 / PEN_PE_N Terminal 630A in VMS64V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity.	30 x 10	800	1
4TBV854176C0100	VC64V-HX630-N-T/PE-B	Busbar kit for connecting OFAZ/XLP3 / N_PE Terminal 630A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity.	30 x 10	800	1

## VMS kits

### Connecting busbars for XLP/OFAZ

Device type	Enclosure order code	VMS box type	Type of network	Application	Application vs MBB position*
XLP + DIN00	4TBV853658C0100	VMS33 / VMS63H	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
			TN-S	PE/N 100%	N 4th pole: TOP
			TN-S	PE/N 100%	N 4th pole: BOTTOM
XLP + DIN00	4TBV853659C0100	VMS43V	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
			TN-S	PE/N 100%	N 4th pole: TOP
			TN-S	PE/N 100%	N 4th pole: BOTTOM
XLP + DIN1	4TBV853660C0100 4TBV853679C0100 4TBV853680C0100	VMS33** / VMS63V** VMS64V	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
			TN-S	PE/N 100%	N 4th pole: TOP
			TN-S	PE/N 100%	N 4th pole: BOTTOM
XLP + DIN2	4TBV853680C0100	VMS64V	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
			TN-S	PE/N 100%	N 4th pole: TOP
			TN-S	PE/N 100%	N 4th pole: BOTTOM
XLP + DIN3	4TBV853680C0100	VMS64V	TN-C / TN-S	PHASE L1-L3	TOP / BOTTOM
			TN-C / TN-S	PEN / PE/N 100%	PEN : TOP / BOTTOM PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
			TN-S	PE/N 100%	N 4th pole: TOP
			TN-S	PE/N 100%	N 4th pole: BOTTOM

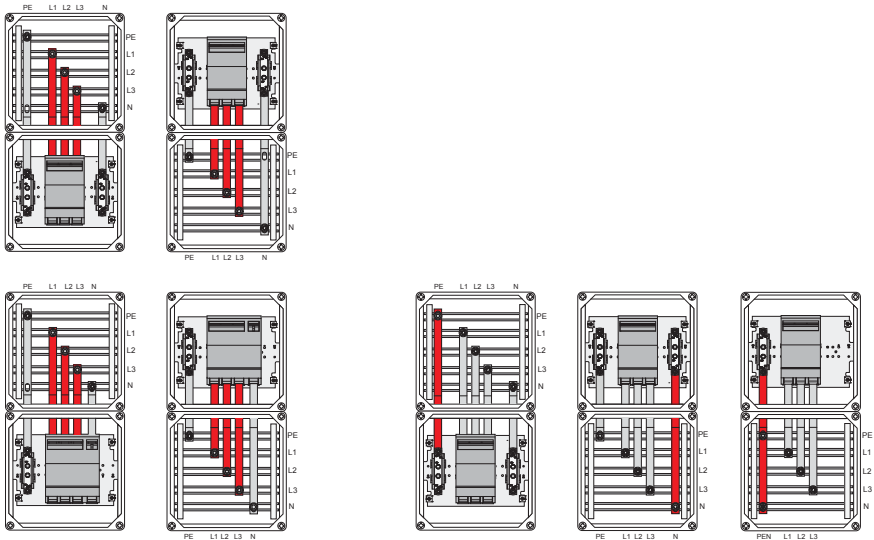
\* Position of Main Busbars (MBB) relative to selected enclosure. TOP is when MBB is located above enclosure, BOTTOM is below  
Check following pages for illustrative guide

\*\* In case of XLP with DIN1 fuse link installed in VMS33 / VMS63V cable connection should be used for PE / N / PEN

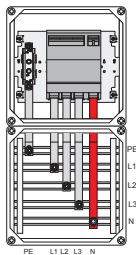
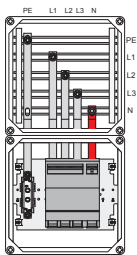
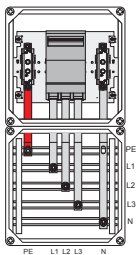
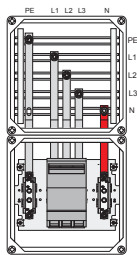
Busbar kit order code	Type code	Description	Cross-section, mm x mm	Nominal current, A	Pack, pcs.
4TBV854177C0100	VC33/63H-X160-P	Busbar kit for connecting XLP00 in VMS33 if MBB L1-L3 position is TOP/BOT	20 x 2	160	3
4TBV854161C0100	VC33-HX160T-PEN/N	Busbar kit for connecting OFAZ/XLP00 / PEN_PE_N Terminal 160A in VMS33 if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity	20 x 2	160	1
4TBV854162C0100	VC33-HX160B-N/PEN	Busbar kit for connecting OFAZ/XLP00 / N_PE Terminal 160A in VMS33 if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	20 x 2	160	1
4TBV854180C0100	VC33/63H-X160T-N-T	Busbar kit for connecting 4th pole (N) XLP00 in VMS33 if MBB N position is TOP	20 x 2	160	1
4TBV854181C0100	VC33/63H-X160B-N-B	Busbar kit for connecting 4th pole (N) XLP00 in VMS33 if MBB N position is BOTTOM	20 x 2	160	1
4TBV854182C0100	VC43V-X160-P	Busbar kit for connecting XLP00 in VMS43V if MBB L1-L3 position is TOP/BOT	20 x 2	160	3
4TBV854164C0100	VC43-HX160T-PEN/N	Busbar kit for connecting OFAZ/XLP00 / PEN_PE_N Terminal 160A in VMS43V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity	20 x 2	160	1
4TBV854165C0100	VC43-HX160B-N/PEN	Busbar kit for connecting OFAZ/XLP00 / N_PE Terminal 160A in VMS43V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	20 x 2	160	1
4TBV854185C0100	VC43V-X160T-N-T	Busbar kit for connecting 4th pole (N) XLP00 in VMS43V if MBB N position is TOP	20 x 2	160	1
4TBV854186C0100	VC43V-X160B-N-B	Busbar kit for connecting 4th pole (N) XLP00 in VMS43V if MBB N position is BOTTOM	20 x 2	160	1
4TBV854187C0100	VC43V/63V/64V-X250-P	Busbar kit for connecting XLP1 in VMS43V/63V/64V if MBB L1-L3 position is TOP/BOT	25 x 3	250	3
4TBV854188C0100	VC64V-X250T-PE-PEN-T/N-PEN-B	Busbar kit for connecting XLP1 / PEN_PE_N Terminal 250A in VMS64V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity**	25 x 3	250	1
4TBV854189C0100	VC64V-X250B-N-T/PE-B	Busbar kit for connecting XLP1 / N_PE Terminal 250A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity**	25 x 3	250	1
4TBV854190C0100	VC43V/63V/64V-X250T-N-T	Busbar kit for connecting 4th pole (N) XLP1 in VMS43V/63V/64V if MBB N position is TOP	25 x 3	250	1
4TBV854191C0100	VC43V/63V/64V-X250B-N-B	Busbar kit for connecting 4th pole (N) XLP1 in VMS43V/63V/64V if MBB N position is BOTTOM	25 x 3	250	1
4TBV854192C0100	VC64V-X400-P	Busbar kit for connecting XLP2 in VMS64V if MBB L1-L3 position is TOP/BOT	30 x 5	400	3
4TBV854170C0100	VC64-HX630T-PE50	Busbar kit for connecting OFAZ/XLP2 / PEN_PE_N Terminal 400A in VMS64V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 100% load capacity	30 x 5	400	1
4TBV854171C0100	VC64-HX630B-PE50	Busbar kit for connecting OFAZ/XLP2 / N_PE Terminal 400A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	30 x 5	400	1
4TBV854195C0100	VC64V-X400T-N-T	Busbar kit for connecting 4th pole (N) XLP2 in VMS64V if MBB N position is TOP	30 x 5	400	1
4TBV854196C0100	VC64V-X400B-N-B	Busbar kit for connecting 4th pole (N) XLP2 in VMS64V if MBB N position is BOTTOM	30 x 5	400	1
4TBV854197C0100	VC64V-X630-P	Busbar kit for connecting XLP3 in VMS64V if MBB L1-L3 position is TOP/BOT	30 x 10	800	3
4TBV854170C0100	VC64-HX630T-PE50	Busbar kit for connecting OFAZ/XLP2 / PEN_PE_N Terminal 630A in VMS64V if MBB PE/PEN position is TOP or MBB N/PEN position is BOTTOM, 50% load capacity	30 x 5	400	1
4TBV854171C0100	VC64-HX630B-PE50	Busbar kit for connecting OFAZ/XLP2 / N_PE Terminal 630A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 50% load capacity	30 x 5	400	1
4TBV854175C0100	VC64-HX630T-PEN/N	Busbar kit for connecting 4th pole (N) XLP3 in VMS64V if MBB N position is TOP	30 x 10	800	1
4TBV854176C0100	VC64-HX630B-N/PEN	Busbar kit for connecting 4th pole (N) XLP3 in VMS64V if MBB N position is BOTTOM	30 x 10	800	1

VMS kits

Connecting busbars for XLP/OFAZ



Device/VMS BOX	PHASE 1-3	PE TOP / N BOT / PEN
1x XLP00 / VMS33/63H	4TBV854177C0100	4TBV854161C0100
2x/4x XLP00 / VMS33/63H	(2x/4x) 4TBV854292C0100 (cable)	N.A. (cable)
XLP00 / VMS43V	4TBV854182C0100	4TBV854164C0100
XLP1 / VMS43V/63V	4TBV854187C0100	N.A. (cable)
XLP1 / VMS64V	4TBV854187C0100	4TBV854188C0100
XLP2 / VMS64V	4TBV854192C0100	4TBV854170C0100
XLP3 / N.A. VMS64V	4TBV854197C0100	100% PE/N 4TBV854175C0100
		50% PE 4TBV854170C0100



N TOP / PE BOT		N 4TH POL TOP		N 4TH POL BOT	
4TBV854162C0100		4TBV854180C0100		4TBV854181C0100	
N.A. (cable)		N.A.		N.A.	
4TBV854165C0100		4TBV854185C0100		4TBV854186C0100	
N.A. (cable)		N.A.		N.A.	
4TBV854189C0100		4TBV854190C0100		4TBV854191C0100	
4TBV854171C0100		4TBV854195C0100		4TBV854196C0100	
100% PE/N	4TBV854176C0100	100% PE/N	N.A.	100% PE/N	N.A.
50% PE	4TBV854171C0100	50% PE	N.A.	50% PE	N.A.



## VMS kits

### Boxes for XT MCCBs



4TBV853534C0100



4TBV853572C0100

#### For MCCB XT 160-1250A installed on mounting plate

- Suitable only for fixed version of MCCB with rotary operating handle
- Base with four open sides without end plates
- PERTINAX mounting plates 5 mm
- Plates are pre-drilled and marked for correct positioning of devices
- Transparent cover with cut-out for handle shaft
- PE/N Terminals are not included (use selection table from following page)
- All enclosures are equipped with depth extension frame
- **It is mandatory to apply extra box for cable management when connecting XT3 - XT7 with incoming cables**

Additional info  
can be found in  
User Manual:

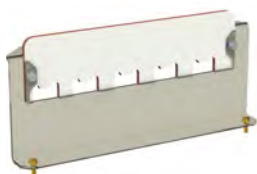


Description	External dimensions (HxWxD, mm)	Device type	Max quantity devices	Max device current, A	Type code	Order code	Pack, pcs.
VMS 33 for Tmax XT1/XT2	320 x 320 x 254	XT1/XT2	1	160	VB33HT-XT2-160/4	4TBV853532C0100	1
VMS 43V for Tmax XT3/XT4*	440 x 320 x 254	XT3/XT4*	1	250	VB43VT-XT4-250/4	4TBV853534C0100	1
VMS 63V for Tmax XT1/XT2	640 x 320 x 254	XT1/XT2	1	160	VB63VT-XT2-160/4	4TBV853535C0100	1
VMS 63V for Tmax XT3/XT4*	640 x 320 x 254	XT3/XT4*	1	250	VB63VT-XT4-250/4	4TBV853569C0100	1
VMS 63V for Tmax XT5 400A	640 x 320 x 254	XT5	1	400	VB63VT-XT5-400/4	4TBV853570C0100	1
VMS 64V for Tmax XT5/XT6 630A	640 x 440 x 254	XT5/XT6	1	630	VB64VT-XT5-630/4	4TBV853571C0100	1
VMS 64V for Tmax XT7**	640 x 440 x 329	XT7	1	1250	VB64VT-XT7-1250/4	4TBV853572C0100	1

\* Please order special telescopic shaft for XT4 in VMS: 4TBV853850C0100

\*\* 4TBV853572C0100 is equipped with two depth extension frames.

Cable connection set is required for attaching incoming cables to XT7 (refer to following pages for selection table).



4TBV853599C0100

#### Blast shield kits










- Blast shield kit is required for protecting busbar system from short-circuit caused by gas which is exhausted from MCCB in the event of tripping

Description	Device type / VMS BASE	Enclosure order code	Type code	Order code	Pack, pcs.
VMS 320mm XT1 Shield kit	XT1 / VMS33	4TBV853532C0100	VSK-XT1-320	4TBV853573C0100	1
VMS 320mm XT2 Shield kit	XT2 / VMS33	4TBV853532C0100	VSK-XT2-320	4TBV853574C0100	1
VMS 320mm XT1 Shield kit	XT1 / VMS63V	4TBV853535C0100	VSK-XT1-320	4TBV853573C0100	1
VMS 320mm XT2 Shield kit	XT2 / VMS63V	4TBV853535C0100	VSK-XT2-320	4TBV853574C0100	1
VMS 320mm XT3 Shield kit	XT3 / VMS43V	4TBV853534C0100	VSK-XT3-320	4TBV853575C0100	1
VMS 320mm XT4 Shield kit	XT4 / VMS43V	4TBV853534C0100	VSK-XT4-320	4TBV853576C0100	1
VMS 320mm XT3 Shield kit	XT3 / VMS63V	4TBV853569C0100	VSK-XT3-320	4TBV853575C0100	1
VMS 320mm XT4 Shield kit	XT4 / VMS63V	4TBV853569C0100	VSK-XT4-320	4TBV853576C0100	1
VMS 320mm XT5 Shield kit	XT5 / VMS63V	4TBV853570C0100	VSK-XT5-320	4TBV853599C0100	1
VMS 440mm XT5 Shield kit	XT5 / VMS64V	4TBV853571C0100	VSK-XT5-440	4TBV853600C0100	1
VMS 440mm XT6 Shield kit	XT6 / VMS64V	4TBV853571C0100	VSK-XT6-440	4TBV853601C0100	1
VMS 440mm XT7 Shield kit	XT7 / VMS64V	4TBV853572C0100	VSK-XT7-440	4TBV853609C0100	1

# VMS kits





Boxes for XT MCCBs

Terminals

	Description	Device type	Enclosure order code	Nominal current, A	Type code	Order code	Pack, pcs.
 <b>4TBV853216C0100</b>	VMS N feed-through terminal 160A CLAMP	XT1	4TBV853532C0100	160	VTM-160FT-C	4TBV853216C0100	1
 <b>4TBV853700C0100</b>	VMS N feed-through terminal 160A BOLT	XT1	4TBV853532C0100	160	VTM-160FT-B	4TBV853700C0100	1
 <b>4TBV853216C0100</b>	VMS N feed-through terminal 160A CLAMP	XT2	4TBV853535C0100	160	VTM-160FT-C	4TBV853216C0100	1
 <b>4TBV853700C0100</b>	VMS N feed-through terminal 160A BOLT	XT2	4TBV853535C0100	160	VTM-160FT-B	4TBV853700C0100	1
 <b>4TBV853682C0100</b>	VMS TERMINAL OT / XT 250A	XT3	4TBV853534C0100	250	VTM250	4TBV853682C0100	1
 <b>4TBV853682C0100</b>	VMS TERMINAL OT / XT 250A	XT3	4TBV853569C0100	250	VTM250	4TBV853682C0100	1
 <b>4TBV853682C0100</b>	VMS TERMINAL OT / XT 250A	XT4	4TBV853534C0100	250	VTM250	4TBV853682C0100	1
 <b>4TBV853682C0100</b>	VMS TERMINAL OT / XT 250A	XT4	4TBV853569C0100	250	VTM250	4TBV853682C0100	1
 <b>4TBV853683C0100</b>	VMS TERMINAL OT / XT 400A	XT5	4TBV853570C0100	400	VTM400	4TBV853683C0100	1

VMS kits

Boxes for XT MCCBs

	Description	Device type	Enclosure order code	Nominal current, A	Type code	Order code	Pack, pcs.
 4TBV853685C0100	VMS TERMINAL OT / XT 630A	XT5	4TBV853571C0100	630	VTM630	4TBV853685C0100	1
 4TBV853684C0100	VMS TERMINAL OT / XT 630A for 50% PE/N	XT5	4TBV853571C0100	400	VTM630-50	4TBV853684C0100	1
 4TBV853687C0100	VMS TERMINAL OT / XT 800A	XT6	4TBV853571C0100	800	VTM800	4TBV853687C0100	1
 4TBV853686C0100	VMS TERMINAL OT / XT 800A for 50% PE/N	XT6	4TBV853571C0100	400	VTM800-50	4TBV853686C0100	1
 4TBV853690C0100	VMS TERMINAL OT / XT 1250A	XT7	4TBV853572C0100	1250	VTM1250	4TBV853690C0100	1
 4TBV853688C0100	VMS TERMINAL OT / XT 1000A for 50% PE/N	XT7	4TBV853572C0100	500	VTM1000-50	4TBV853688C0100	1



VMS kits

Boxes for XT MCCBs

Order code	Description	Type code	Order code	Pack, pcs.
 4TBV853850C0100	Telescopic shaft for XT4	VA-XT4S	4TBV853850C0100	1



- XT7 cable connection kit**
- Kit is used to connect incoming cables (feeders) to XT7 terminals
  - Installation material (bolts, nuts) is included

Description	Type code	Order code	Pack, pcs.
1 pole/phase terminal kit for cable connection XT7	VA-TK-XT7	4TBV854204C0100	1
PE/PEN terminal kit for cable connection XT7	VA-TK-XT7-PEN	4TBV854205C0100	1

## VMS kits

Connecting busbars for XT MCCBs



4TBV854258C0100



4TBV854259C0100



4TBV854260C0100



4TBV854261C0100



4TBV854262C0100



4TBV854263C0100



4TBV854264C0100



4TBV854265C0100

Device type	Enclosure order code	VMS box type	Type of network	Application	Application vs MBB position*
XT2	4TBV853532C0100	VMS33	TN-C / TN-S	PHASE L1-L3	TOP
			TN-C / TN-S	PHASE L1-L3	BOTTOM
			TN-S	PE/N 100%	PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
			TN-S	PE/N 100%	N 4th pole: TOP
			TN-S	PE/N 100%	N 4th pole: BOTTOM
			TN-C	PEN 100%	PEN : TOP / BOTTOM
XT2	4TBV853535C0100	VMS63V	TN-C / TN-S	PHASE L1-L3	TOP
			TN-C / TN-S	PHASE L1-L3	BOTTOM
			TN-S	PE/N 100%	PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
			TN-S	PE/N 100%	N 4th pole: TOP
			TN-S	PE/N 100%	N 4th pole: BOTTOM
			TN-C	PEN 100%	PEN : TOP / BOTTOM

\* Position of Main Busbars (MBB) relative to selected enclosure. TOP is when MBB is located above enclosure, BOTTOM is below  
Check following pages for illustrative guide



4TBV854284C0100



4TBV854285C0100

**For MCCB Tmax XT****(Kits are applicable only to parallel busbar systems)**

- Connection of incoming/outgoing moulded case circuit breakers Tmax XT to main busbar system
- Without fastening materials

Connecting blocks and T-bolts can be selected Busbar system:  
parallel configuration

Drawings for busbars  
can be found in  
ABB Library



Busbar kit order code	Type code	Description	Cross-section, mm x mm	Nominal current, A	Pack, pcs.
4TBV854214C0100	VC33-XT2-160-P	Busbar kit for connecting XT2 160A in VMS33 if MBB L1-L3 position is TOP	20 x 2	160	3
4TBV854215C0100	VC33-XT2-160-P	Busbar kit for connecting XT2 160A in VMS33 if MBB L1-L3 position is BOTTOM	20 x 2	160	3
4TBV854216C0100	VC33-XT2-160-PE-T/N-B	Busbar kit for connecting XT2 160A PE_N Terminal 160A in VMS33 if MBB PE position is TOP or MBB N position is BOTTOM, 100% load capacity	20 x 2	160	1
4TBV854217C0100	VC33-XT2-160-N-T/PE-B	Busbar kit for connecting XT2 160A PE_N Terminal 160A in VMS33 if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	20 x 2	160	1
4TBV854218C0100	VC33-XT2-160-N-T	Busbar kit for connecting 4th pole (N) XT2 160A in VMS33 if MBB N position is TOP	20 x 2	160	1
4TBV854219C0100	VC33-XT2-160-N-B	Busbar kit for connecting 4th pole (N) XT2 160A in VMS33 if MBB N position is BOTTOM	20 x 2	160	1
4TBV854282C0100	VLPEN-160	Link for connecting PE rail to N rail in order to make PEN joint 160A	20 x 2	160	1
4TBV854220C0100	VC63V-XT2-160-P	Busbar kit for connecting XT2 160A in VMS63V if MBB L1-L3 position is TOP	20 x 2	160	3
4TBV854221C0100	VC63V-XT2-160-P	Busbar kit for connecting XT2 160A in VMS63V if MBB L1-L3 position is BOTTOM	20 x 2	160	3
4TBV854222C0100	VC63V-XT2-160-PE-T/N-B	Busbar kit for connecting XT2 160A PE_N Terminal 160A in VMS63V if MBB PE position is TOP or MBB N position is BOTTOM, 100% load capacity	20 x 2	160	1
4TBV854223C0100	VC63V-XT2-160-N-T/PE-B	Busbar kit for connecting XT2 160A PE_N Terminal 160A in VMS63V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	20 x 2	160	1
4TBV854224C0100	VC63V-XT2-160-N-T	Busbar kit for connecting 4th pole (N) XT2 160A in VMS63V if MBB N position is TOP	20 x 2	160	1
4TBV854225C0100	VC63V-XT2-160-N-B	Busbar kit for connecting 4th pole (N) XT2 160A in VMS63V if MBB N position is BOTTOM	20 x 2	160	1
4TBV854282C0100	VLPEN-160	Link for connecting PE rail to N rail in order to make PEN joint 160A	20 x 2	160	1



## VMS kits

### Connecting busbars for XT MCCBs

Device type	Enclosure order code	VMS box type	Type of network	Application	Application vs MBB position*
XT3	4TBV853534C0100	VMS43V	TN-C / TN-S	PHASE L1-L3	TOP
			TN-C / TN-S	PHASE L1-L3	BOTTOM
			TN-S	PE/N 100%	PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
			TN-S	PE/N 100%	N 4th pole: TOP
			TN-S	PE/N 100%	N 4th pole: BOTTOM
			TN-C	PEN 100%	PEN : TOP / BOTTOM
XT3	4TBV853569C0100	VMS63V	TN-C / TN-S	PHASE L1-L3	TOP
			TN-C / TN-S	PHASE L1-L3	BOTTOM
			TN-S	PE/N 100%	PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
			TN-S	PE/N 100%	N 4th pole: TOP
			TN-S	PE/N 100%	N 4th pole: BOTTOM
			TN-C	PEN 100%	PEN : TOP / BOTTOM
XT4	4TBV853534C0100	VMS43V	TN-C / TN-S	PHASE L1-L3	TOP
			TN-C / TN-S	PHASE L1-L3	BOTTOM
			TN-S	PE/N 100%	PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
			TN-S	PE/N 100%	N 4th pole: TOP
			TN-S	PE/N 100%	N 4th pole: BOTTOM
			TN-C	PEN 100%	PEN : TOP / BOTTOM
XT4	4TBV853569C0100	VMS63V	TN-C / TN-S	PHASE L1-L3	TOP
			TN-C / TN-S	PHASE L1-L3	BOTTOM
			TN-S	PE/N 100%	PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
			TN-S	PE/N 100%	N 4th pole: TOP
			TN-S	PE/N 100%	N 4th pole: BOTTOM
			TN-C	PEN 100%	PEN : TOP / BOTTOM

\* Position of Main Busbars (MBB) relative to selected enclosure. TOP is when MBB is located above enclosure, BOTTOM is below  
Check following pages for illustrative guide

Busbar kit order code	Type code	Description	Cross-section, mm x mm	Nominal current, A	Pack, pcs.
4TBV854226C0100	VC43V-XT3-250-P	Busbar kit for connecting XT3 250A in VMS43V if MBB L1-L3 position is TOP	25 x 3	250	3
4TBV854227C0100	VC43V-XT3-250-P	Busbar kit for connecting XT3 250A in VMS43V if MBB L1-L3 position is BOTTOM	25 x 3	250	3
4TBV854228C0100	VC43V-XT3/4-250-PE-T/N-B	Busbar kit for connecting XT3/XT4 250A PE_N Terminal 250A in VMS43V if MBB PE position is TOP or MBB N position is BOTTOM, 100% load capacity	25 x 3	250	1
4TBV854229C0100	VC43V-XT3/4-250-N-T/PE-B	Busbar kit for connecting XT3/XT4 250A PE_N Terminal 250A in VMS43V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	20 x 4	250	1
4TBV854230C0100	VC43V-XT3-250-N-T	Busbar kit for connecting 4th pole (N) XT3 250A in VMS43V if MBB N position is TOP	25 x 3	250	1
4TBV854231C0100	VC43V-XT3-250-N-B	Busbar kit for connecting 4th pole (N) XT3 250A in VMS43V if MBB N position is BOTTOM	25 x 3	250	1
4TBV854283C0100	VLPEN-250	Link for connecting PE rail to N rail in order to make PEN joint 250A	25 x 3	250	1
4TBV854232C0100	VC63V-XT3-250-P	Busbar kit for connecting XT3 250A in VMS63V if MBB L1-L3 position is TOP	25 x 3	250	3
4TBV854233C0100	VC63V-XT3-250-P	Busbar kit for connecting XT3 250A in VMS63V if MBB L1-L3 position is BOTTOM	25 x 3	250	3
4TBV854234C0100	VC63V-XT3/4-250-PE-T/N-B	Busbar kit for connecting XT3/XT4 250A PE_N Terminal 250A in VMS63V if MBB PE position is TOP or MBB N position is BOTTOM, 100% load capacity	25 x 3	250	1
4TBV854235C0100	VC63V-XT3/4-250-N-T/PE-B	Busbar kit for connecting XT3/XT4 250A PE_N Terminal 250A in VMS63V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	20 x 4	250	1
4TBV854236C0100	VC63V-XT3-250-N-T	Busbar kit for connecting 4th pole (N) XT3 250A in VMS63V if MBB N position is TOP	25 x 3	250	1
4TBV854237C0100	VC63V-XT3-250-N-B	Busbar kit for connecting 4th pole (N) XT3 250A in VMS63V if MBB N position is BOTTOM	25 x 3	250	1
4TBV854283C0100	VLPEN-250	Link for connecting PE rail to N rail in order to make PEN joint 250A	25 x 3	250	1
4TBV854238C0100	VC43V-XT4-250-P	Busbar kit for connecting XT4 250A in VMS43V if MBB L1-L3 position is TOP	25 x 3	250	3
4TBV854239C0100	VC43V-XT4-250-P	Busbar kit for connecting XT4 250A in VMS43V if MBB L1-L3 position is BOTTOM	25 x 3	250	3
4TBV854228C0100	VC43-XT3/4250T-PEN/N	Busbar kit for connecting XT3/XT4 250A PE_N Terminal 160A in VMS43V if MBB PE position is TOP or MBB N position is BOTTOM, 100% load capacity	25 x 3	250	1
4TBV854229C0100	VC43-XT3/4250B-N/PEN	Busbar kit for connecting XT3/XT4 250A PE_N Terminal 160A in VMS43V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	20 x 4	250	1
4TBV854242C0100	VC43V-XT4-250-N-T	Busbar kit for connecting 4th pole (N) XT4 250A in VMS43V if MBB N position is TOP	25 x 3	250	1
4TBV854243C0100	VC43V-XT4-250-N-B	Busbar kit for connecting 4th pole (N) XT4 250A in VMS43V if MBB N position is BOTTOM	25 x 3	250	1
4TBV854283C0100	VLPEN-250	Link for connecting PE rail to N rail in order to make PEN joint 250A	25 x 3	250	1
4TBV854244C0100	VC63V-XT4-250-P	Busbar kit for connecting XT4 250A in VMS63V if MBB L1-L3 position is TOP	25 x 3	250	3
4TBV854245C0100	VC63V-XT4-250-P	Busbar kit for connecting XT4 250A in VMS63V if MBB L1-L3 position is BOTTOM	25 x 3	250	3
4TBV854234C0100	VC63-XT3/4250T-PEN/N	Busbar kit for connecting XT3/XT4 250A PE_N Terminal 250A in VMS63V if MBB PE position is TOP or MBB N position is BOTTOM, 100% load capacity	20 x 4	250	1
4TBV854235C0100	VC63-XT3/4250B-N/PEN	Busbar kit for connecting XT3/XT4 250A PE_N Terminal 250A in VMS63V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	25 x 3	250	1
4TBV854248C0100	VC63V-XT4-250-N-T	Busbar kit for connecting 4th pole (N) XT4 250A in VMS63V if MBB N position is TOP	25 x 3	250	1
4TBV854249C0100	VC63V-XT4-250-N-B	Busbar kit for connecting 4th pole (N) XT4 250A in VMS63V if MBB N position is BOTTOM	25 x 3	250	1
4TBV854283C0100	VLPEN-250	Link for connecting PE rail to N rail in order to make PEN joint 250A	25 x 3	250	1

## VMS kits

### Connecting busbars for XT MCCBs

Device type	Enclosure order code	VMS box type	Type of network	Application	Application vs MBB position*
XT5	4TBV853570C0100	VMS63V	TN-C / TN-S	PHASE L1-L3	TOP
			TN-C / TN-S	PHASE L1-L3	BOTTOM
			TN-S	PE/N 100%	PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
			TN-S	PE/N 100%	N 4th pole: TOP
			TN-S	PE/N 100%	N 4th pole: BOTTOM
			TN-C	PEN 100%	PEN : TOP / BOTTOM
XT5	4TBV853571C0100	VMS64V	TN-C / TN-S	PHASE L1-L3	TOP
			TN-C / TN-S	PHASE L1-L3	BOTTOM
			TN-S	PE/N 50%	PE : TOP N: BOTTOM
			TN-S	PE/N 50%	PE : BOTTOM N: TOP
			TN-S	PE/N 100%	PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
			TN-S	PE/N 100%	N 4th pole: TOP
			TN-S	PE/N 100%	N 4th pole: BOTTOM
			TN-C	PEN 100%	PEN : TOP / BOTTOM
			TN-C	PEN 50%	PEN : TOP / BOTTOM

\* Position of Main Busbars (MBB) relative to selected enclosure. TOP is when MBB is located above enclosure, BOTTOM is below  
Check following pages for illustrative guide

Busbar kit order code	Type code	Description	Cross-section, mm x mm	Nominal current, A	Pack, pcs.
4TBV854250C0100	VC63V-XT5-400-P	Busbar kit for connecting XT5 400A in VMS63V if MBB L1-L3 position is TOP	30 x 5	400	3
4TBV854251C0100	VC63V-XT5-400-P	Busbar kit for connecting XT5 400A in VMS63V if MBB L1-L3 position is BOTTOM	30 x 5	400	3
4TBV854254C0100	VC63V-XT5-400-PE-T/ N-B	Busbar kit for connecting XT5 400A PE_N Terminal 400A in VMS63V if MBB PE position is TOP or MBB N position is BOTTOM, 100% load capacity	30 x 5	400	1
4TBV854255C0100	VC63V-XT5-400-N-T/ PE-B	Busbar kit for connecting XT5 400A PE_N Terminal 400A in VMS63V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	25 x 6	400	1
4TBV854256C0100	VC63V-XT5-400-N-T	Busbar kit for connecting 4th pole (N) XT5 400A in VMS63V if MBB N position is TOP	30 x 5	400	1
4TBV854257C0100	VC63V-XT5-400-N-B	Busbar kit for connecting 4th pole (N) XT5 400A in VMS63V if MBB N position is BOTTOM	30 x 5	400	1
4TBV854284C0100	VLPEN-400	Link for connecting PE rail to N rail in order to make PEN joint 400A	30 x 5	400	1
4TBV854258C0100	VC64V-XT5-400-P	Busbar kit for connecting XT5 630A in VMS64V if MBB L1-L3 position is TOP	30 x 10	630	3
4TBV854259C0100	VC64V-XT5-400-P	Busbar kit for connecting XT5 630A in VMS64V if MBB L1-L3 position is BOTTOM	30 x 10	630	3
4TBV854260C0100	VC64V-XT5-400-PE-T/ N-B-0.5	Busbar kit for connecting XT5 630A PE_N Terminal 630A in VMS64V if MBB PE position is TOP or MBB N position is BOTTOM, 50% load capacity	30 x 5	400	1
4TBV854261C0100	VC64V-XT5-400-N-T/ PE-B-0.5	Busbar kit for connecting XT5 630A PE_N Terminal 630A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 50% load capacity	30 x 5	400	1
4TBV854262C0100	VC64V-XT5-400-PE-T/ N-B	Busbar kit for connecting XT5 630A PE_N Terminal 400A in VMS64V if MBB PE position is TOP or MBB N position is BOTTOM, 100% load capacity	30 x 10	630	1
4TBV854263C0100	VC64V-XT5-400-N-T/ PE-B	Busbar kit for connecting XT5 630A PE_N Terminal 400A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	30 x 10	630	1
4TBV854264C0100	VC64V-XT5-400-N-T	Busbar kit for connecting 4th pole (N) XT5 630A in VMS64V if MBB N position is TOP	30 x 10	630	1
4TBV854265C0100	VC64V-XT5-400-N-B	Busbar kit for connecting 4th pole (N) XT5 630A in VMS64V if MBB N position is BOTTOM	30 x 10	630	1
4TBV854285C0100	VLPEN-630	Link for connecting PE rail to N rail in order to make PEN joint 630A	30 x 10	630	1
4TBV854284C0100	VLPEN-400	Link for connecting PE rail to N rail in order to make PEN joint 400A	30 x 5	400	1



## VMS kits

### Connecting busbars for XT MCCBs

Device type	Enclosure order code	VMS box type	Type of network	Application	Application vs MBB position*
XT6	4TBV853571C0100	VMS64V	TN-C / TN-S	PHASE L1-L3	TOP
			TN-C / TN-S	PHASE L1-L3	BOTTOM
			TN-S	PE/N 50%	PE : TOP N: BOTTOM
			TN-S	PE/N 50%	PE : BOTTOM N: TOP
			TN-S	PE/N 100%	PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
			TN-S	PE/N 100%	N 4th pole: TOP
			TN-S	PE/N 100%	N 4th pole: BOTTOM
			TN-C	PEN 100%	PEN : TOP / BOTTOM
			TN-C	PEN 50%	PEN : TOP / BOTTOM
XT7	4TBV853572C0100	VMS64V	TN-C / TN-S	PHASE L1-L3	TOP
			TN-C / TN-S	PHASE L1-L3	BOTTOM
			TN-S	PE/N 50%	PE : TOP N: BOTTOM
			TN-S	PE/N 50%	PE : BOTTOM N: TOP
			TN-S	PE/N 100%	PE : TOP N: BOTTOM
			TN-S	PE/N 100%	PE : BOTTOM N: TOP
			TN-S	PE/N 100%	N 4th pole: TOP
			TN-S	PE/N 100%	N 4th pole: BOTTOM
			TN-C	PEN 100%	PEN : TOP / BOTTOM
			TN-C	PEN 50%	PEN : TOP / BOTTOM

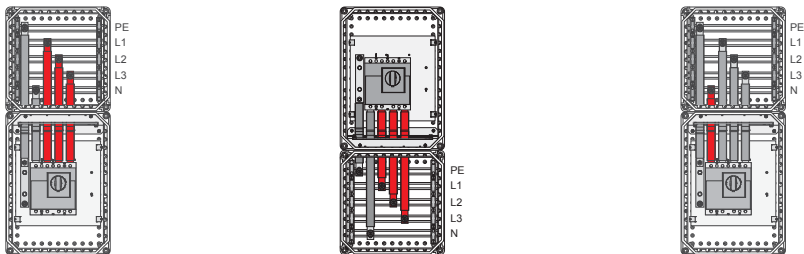
\* Position of Main Busbars (MBB) relative to selected enclosure. TOP is when MBB is located above enclosure, BOTTOM is below  
Check following pages for illustrative guide

Busbar kit order code	Type code	Description	Cross-section, mm x mm	Nominal current, A	Pack, pcs.
4TBV854266C0100	VC64V-XT6-800-P	Busbar kit for connecting XT6 800A in VMS64V if MBB L1-L3 position is TOP	40 x 10	800	3
4TBV854267C0100	VC64V-XT6-800-P	Busbar kit for connecting XT6 800A in VMS64V if MBB L1-L3 position is BOTTOM	40 x 10	800	3
4TBV854268C0100	VC64V-XT6-800-PE-T/ N-B-0.5	Busbar kit for connecting XT6 800A PE_N Terminal 630A in VMS64V if MBB PE position is TOP or MBB N position is BOTTOM, 50% load capacity	20 x 10	630	1
4TBV854269C0100	VC64V-XT6-800-N-T/ PE-B-0.5	Busbar kit for connecting XT6 800A PE_N Terminal 630A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 50% load capacity	20 x 10	500	1
4TBV854270C0100	VC64V-XT6-800-PE-T/ N-B	Busbar kit for connecting XT6 800A PE_N Terminal 800A in VMS64V if MBB PE position is TOP or MBB N position is BOTTOM, 100% load capacity	40 x 10	800	1
4TBV854271C0100	VC64V-XT6-800-N-T/ PE-B	Busbar kit for connecting XT6 800A PE_N Terminal 800A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	40 x 10	800	1
4TBV854272C0100	VC64V-XT6-800-N-T	Busbar kit for connecting 4th pole (N) XT6 800A in VMS64V if MBB N position is TOP	40 x 10	800	1
4TBV854273C0100	VC64V-XT6-800-N-B	Busbar kit for connecting 4th pole (N) XT6 800A in VMS64V if MBB N position is BOTTOM	40 x 10	800	1
4TBV854286C0100	VLPEN-800	Link for connecting PE rail to N rail in order to make PEN joint 800A	40 x 10	800	1
4TBV854285C0100	VLPEN-630	Link for connecting PE rail to N rail in order to make PEN joint 630A	20 x 10	630	1
4TBV854274C0100	VC64V-XT7-1250-P	Busbar kit for connecting XT7 1250A in VMS64V if MBB L1-L3 position is TOP	50 x 15	1250	3
4TBV854275C0100	VC64V-XT7-1250-P	Busbar kit for connecting XT7 1250A in VMS64V if MBB L1-L3 position is BOTTOM	50 x 15	1250	3
4TBV854276C0100	VC64V-XT7-1250-PE-T/ N-B-0.5	Busbar kit for connecting XT7 1250A PE_N Terminal 1000A in VMS64V if MBB PE position is TOP or MBB N position is BOTTOM, 50% load capacity	30 x 10	630	1
4TBV854277C0100	VC64V-XT7-1250-N-T/ PE-B-0.5	Busbar kit for connecting XT7 1250A PE_N Terminal 1000A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 50% load capacity	30 x 10	630	1
4TBV854278C0100	VC64V-XT7-1250-PE-T/ N-B	Busbar kit for connecting XT7 1250A PE_N Terminal 1250A in VMS64V if MBB PE position is TOP or MBB N position is BOTTOM, 100% load capacity	50 x 15	1250	1
4TBV854279C0100	VC64V-XT7-1250-N-T/ PE-B	Busbar kit for connecting XT7 1250A PE_N Terminal 1250A in VMS64V if MBB PE position is BOTTOM or MBB N position is TOP, 100% load capacity	50 x 15	1250	1
4TBV854280C0100	VC64V-XT7-1250-N-T	Busbar kit for connecting 4th pole (N) XT7 1250A in VMS64V if MBB N position is TOP	50 x 15	1250	1
4TBV854281C0100	VC64V-XT7-1250-N-B	Busbar kit for connecting 4th pole (N) XT7 1250A in VMS64V if MBB N position is BOTTOM	50 x 15	1250	1
4TBV854288C0100	VLPEN-1100	Link for connecting PE rail to N rail in order to make PEN joint 1250A	50 x 15	1250	1
4TBV854287C0100	VLPEN-1000	Link for connecting PE rail to N rail in order to make PEN joint 1000A	30 x 10	630	1

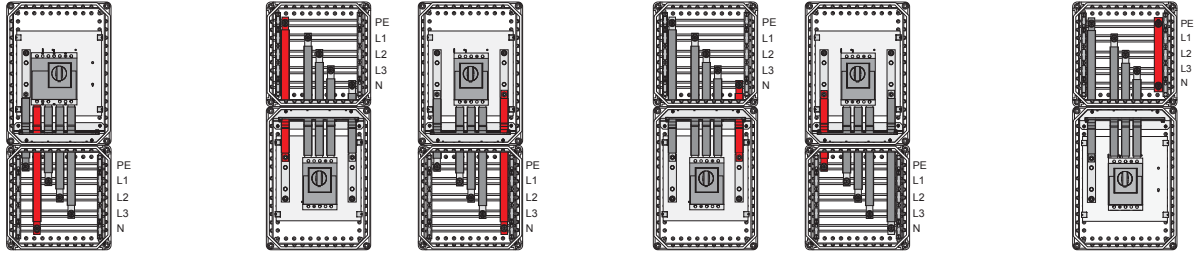


VMS kits

Connecting busbars for XT MCCBs



Device/VMS BOX	PHASE 1-3 (TOP)	PHASE 1-3 (BOTTON)	N 4TH POL (TOP)
XT1 / VMS33	N.A.	N.A.	N.A.
XT2 / VMS33	4TBV854214C0100	4TBV854215C0100	4TBV854218C0100
XT1 / VMS63V	N.A.	N.A.	N.A.
XT2 / VMS63V	4TBV854220C0100	4TBV854221C0100	4TBV854224C0100
XT3 / VMS43V	4TBV854226C0100	4TBV854227C0100	4TBV854230C0100
XT4 / VMS43V	4TBV854238C0100	4TBV854239C0100	4TBV854242C0100
XT3 / VMS63V	4TBV854232C0100	4TBV854233C0100	4TBV854236C0100
XT4 / VMS63V	4TBV854244C0100	4TBV854245C0100	4TBV854248C0100
XT5 / VMS63V	4TBV854250C0100	4TBV854251C0100	4TBV854256C0100
XT5 / VMS64V	4TBV854258C0100	4TBV854259C0100	4TBV854264C0100
XT6 / VMS64V	4TBV854266C0100	4TBV854267C0100	4TBV854272C0100
XT7 / VMS64V	4TBV854274C0100	4TBV854275C0100	4TBV854280C0100



N 4TH POL (BOTTOM)		PE TOP / N BOT		N TOP / PE BOT		PEN
N.A.		N.A.		N.A.		4TBV854282C0100
4TBV854219C0100		4TBV854216C0100		4TBV854217C0100		4TBV854282C0100
N.A.		N.A.		N.A.		4TBV854282C0100
4TBV854225C0100		4TBV854222C0100		4TBV854223C0100		4TBV854282C0100
4TBV854231C0100		4TBV854228C0100		4TBV854229C0100		4TBV854282C0100
4TBV854243C0100		4TBV854228C0100		4TBV854229C0100		4TBV854282C0100
4TBV854237C0100		4TBV854234C0100		4TBV854235C0100		4TBV854282C0100
4TBV854249C0100		4TBV854234C0100		4TBV854235C0100		4TBV854282C0100
4TBV854257C0100		4TBV854254C0100		4TBV854255C0100		4TBV854282C0100
4TBV854265C0100	100% PE/N	4TBV854262C0100	100% PE/N	4TBV854263C0100	100% PE/N	4TBV854285C0100
	50% PE	4TBV854262C0100	50% PE	4TBV854261C0100	50% PE	4TBV854284C0100
4TBV854273C0100	100% PE/N	4TBV854270C0100	100% PE/N	4TBV854271C0100	100% PE/N	4TBV854286C0100
	50% PE	4TBV854268C0100	50% PE	4TBV854269C0100	50% PE	4TBV854285C0100
4TBV854281C0100	100% PE/N	4TBV854278C0100	100% PE/N	4TBV854279C0100	100% PE/N	4TBV854288C0100
	50% PE	4TBV854276C0100	50% PE	4TBV854277C0100	50% PE	4TBV854287C0100

VMS kits

Boxes for Inline II switch disconnectors



- For InLine II NH00-100 fuse switch disconnectors**
- For 3-pole devices
  - Base with four open sides without end plates
  - With busbar holders for 3f + N + PE (max. 400A)
  - For 5-pole, horizontally arranged busbars
  - Busbar center distance 100 mm
  - With 25 x 8 mm busbars
  - Busbars are included
  - Cover plate is not included and must be selected from next page

Additional info  
can be found in  
User Manual:



Description	External dimensions (HxWxD, mm)	Device type	Max quantity devices*	Max device current, A	Fuse type	Type code	Order code	Pack, pcs.
VMS 63V for 4x InLine II NH00-100	640 x 320 x 179	InLine II NH00-100	4	160	NH00	VB63VT-Z160/3	4TBV853051C0100	1
VMS 64V for 6x InLine II NH00-100	640 x 440 x 179	InLine II NH00-100	6	160	NH00	VB64VT-Z160/3	4TBV853052C0100	1





\* By determining quantity of devices per enclosure use RDF values from table 101 of IEC 61439-2



VMS kits

Boxes for Inline II switch disconnectors

Accessories

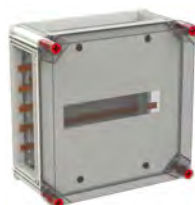
	Description	Type code	Order code	Pack, pcs.
 4TBV853208C0100	VMS 63V cover plate for 4TBV853051C0100	VA-CP63V-Z00	4TBV853208C0100	1
 4TBV853209C0100	VMS 64V cover plate for 4TBV853052C0100	VA-CP64V-Z00	4TBV853209C0100	1
 4TBV853211C0100	Busbar coupling kit (for busbar connection between adjacent enclosures)	VA-BC-Z00	4TBV853211C0100	1
 ZX964	50mm blanking panel for closing off unused space in cover plates	ZX964	2CPX042238R9999	1

## VMS kits

Boxes for S750 and SPD installed on busbars



4TBV853212C0100



4TBV853343C0100


### Enclosures for S750 and SPD device mounted on busbars

- For 3-pole devices
- Base with four open sides without end plates
- With busbar holders 2CPX062638R9999 (ZX95P2) for 3f + N + PE
- Busbar center distance 40 mm
- Suitable for 5-pole system with 12 x 5 mm busbars
- Busbars are included
- With hinged cover or fixed cover-plate

Description	External dimensions (HxWxD, mm)	Device type	Max quantity devices*	Max device current, A	Type code	Order code	Pack, pcs.
VMS 33 with 40mm busbar system 250A for S750 and SPD with hinged pivoting cover	320 x 320 x 179	S750 / SPD	2 x S750 + 1 x SPD	80	VB33HP-SP250	4TBV853212C0100	1
VMS 33 with 40mm busbar system 250A for S750 and SPD with fixed cover-plate	320 x 320 x 179	S750 / SPD	2 x S750 + 1 x SPD	80	VB33HT-SP250	4TBV853343C0100	1

\* By determining quantity of devices per enclosure use RDF values from table 101 of IEC 61439-2

### Spare parts and accessories

Description	Type code	Order code	Pack, pcs.
 ZX95P2	ZX95P2	2CPX062638R9999	1

## VMS kits

### Boxes for meters and energy analyzers



4TBV853250C0100



4TBV853251C0100

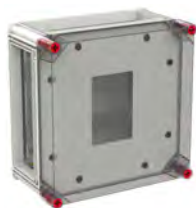


4TBV854253C0100

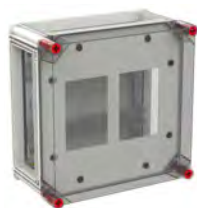
#### For meter with three-point attachment on counter carrying plate

- Base with four open sides without end plates
- Mounting plate for kWh-meter

Description	External dimensions (HxWxD, mm)	Device type	Max quantity devices	Type code	Order code	Pack, pcs.
VMS 43V with cross-plate for energy meter	440 x 320 x 179	energy meter	1	V43BWKJ6	4TBV853250C0100	1
VMS 63V with cross-plate for energy meter	640 x 320 x 179	energy meter	1	V63BWKJ6	4TBV853251C0100	1
VMS 43V with plate for meter + cover	440 x 320 x 179	energy meter	1	VF43HT-QR	4TBV854206C0100	1
VMS 63V with plate for meter + cover	640 x 320 x 179	energy meter	1	VF63HT-QR	4TBV854253C0100	1



4TBV854240C0100

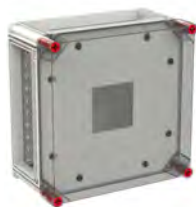


4TBV854241C0100

#### For digital meters

- Base with four open sides without end plates
- **BKE-I adaptor is not included and should be ordered separately**
- Transparent cover
- With touch protection plate

Description	External dimensions (HxWxD, mm)	Device type	Max quantity devices	Type code	Order code	Pack, pcs.
VMS 33 for 1x eHZ digital meter	320 x 320 x 179	eHZ meter	1	VB33TDM1	4TBV854240C0100	1
VMS 33 for 2x eHZ digital meter	320 x 320 x 179	eHZ meter	2	VB33TDM2	4TBV854241C0100	1



4TBV854246C0100

#### For digital analyzers

- 96 x 96 mm devices (i.e. network analyzers M4M)
- Base with four open sides without end plates
- With transparent cover installed by hinged screws
- With touch protection plate

Description	External dimensions (HxWxD, mm)	Device type	Max quantity devices	Type code	Order code	Pack, pcs.
VMS 33 for digital analyzer	320 x 320 x 179	96x96 mm network analyzers	1	VB33TDA1	4TBV854246C0100	1



## Busbar system

Busbar system

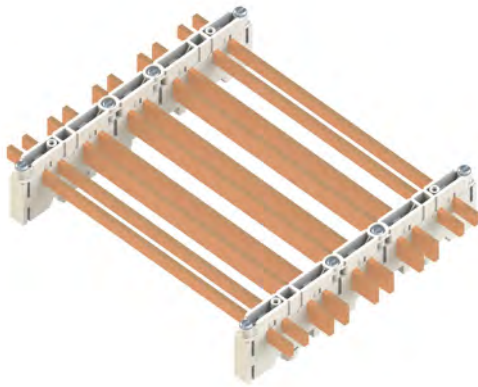
Index

<b>Busbar systems</b>	
Possible configurations	84
Parallel configurations	85
Flat configurations	93

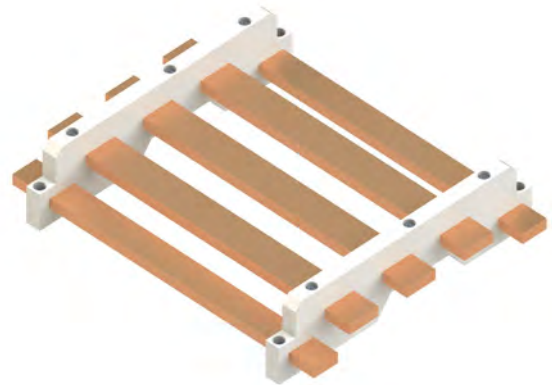
## Busbar system

### Possible configurations

There are two possible configurations for organizing busbar systems based on spatial orientation of busbars: flat and parallel. The choice of configuration will determine the selection of busbar supports and connection options.

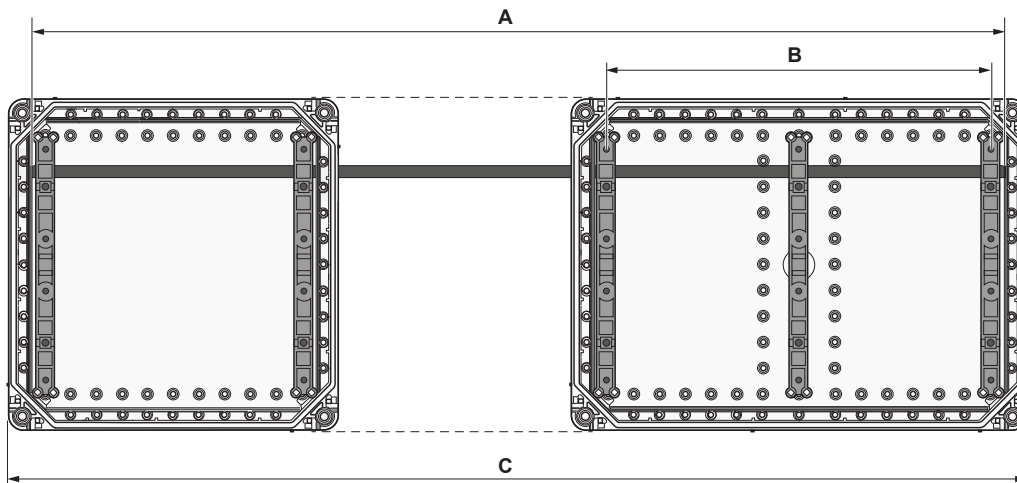


Parallel configuration: up to 1100 A



Flat configuration: up to 630 A

There are two possible configurations for organizing busbar systems based on spatial orientation of busbars: flat and parallel. The choice of configuration will determine the selection of busbar supports and connection options.



- A: Length of the busbar copper = Total width of all bases (busbar compartment) - 5 mm.
- B: Max. distance between two busbar supports depends on required Icw rating. Please refer to the following for additional info.
- C: Total width of all bases (busbar compartment).

Please refer to pages 5-8 in System Manual for additional info about busbar supports installation and usage.






User Manual:



## Busbar system

### Parallel configurations: busbar supports

#### Spare parts and accessories

	Description	N/PE load*, %	Rated I <sub>n</sub> max.*	Type code	Order code	Pack, pcs.
 <b>4TBV854315C0100</b>	<b>Busbar support for parallel/flat configurations</b> In: 250 A - 400 A Fastening elements are included in delivery kit. Busbar support is universal and can be used for both types of configurations.	100%	400 A	VXXSWNG5	4TBV854315C0100	10
 <b>4TBV853075C0100</b>	<b>Busbar support for parallel/flat configurations</b> In: 250 A Fastening elements are included in delivery kit. Busbar support is universal and can be used for both types of configurations.	100%	250 A	VXXSWNE5	4TBV853075C0100	10
 <b>4TBV853076C0100</b>	<b>Busbar support for parallel/flat configurations</b> In: 400 A Fastening elements are included in delivery kit. Busbar support is universal and can be used for both types of configurations.	50%	400 A	VXXSWNF5	4TBV853076C0100	10
 <b>4TBV855177C0100</b>	<b>Busbar support for parallel configurations</b> In: 850 A - 1100 A Fastening elements are included in delivery kit.	100%	1100A	VXBB855177N	4TBV855177C0100	10
 <b>4TBV853077C0100</b>	<b>Busbar support for parallel configurations</b> In: 850 A - 1100 A Fastening elements are included in delivery kit.	50%	1100A	VXXSWNI5	4TBV853077C0100	10

\* Specified characteristics are valid for parallel configurations only. Detailed information about applicable busbar crosssections, rated current, max. distance, l<sub>cw</sub>, etc. is located on next pages

Busbar system

Parallel configurations: busbar supports



Order code	4TBV854315C0100		4TBV855177C0100	
Rated nominal current In (A)	250	400	850	1100
Center distance between phase busbars (mm)	50	50	50	50
Center distance between N/PE and phase busbar (mm)	45	45	50	50
Busbars				
Qty x cross section of phase busbar (mm x mm)	2 x (12 x 5)	2 x (20 x 5)	2 x (20 x 10)	2 x (30 x 10)
Qty x cross section of N/PE busbar (mm x mm)	2 x (12 x 5)	2 x (20 x 5)	2 x (20 x 10)	2 x (30 x 10)
N/PE load capacity	100%	100%	100%	100%
Dynamic short-circuit resistance				
Max. distance between busbar supports (mm)	320	320	320/250	320
Icw phase busbar (kA), 1 sec	15	21	22/25	25
Ipk phase busbar (kA), 1 sec	31	45	46/54,8	54,8

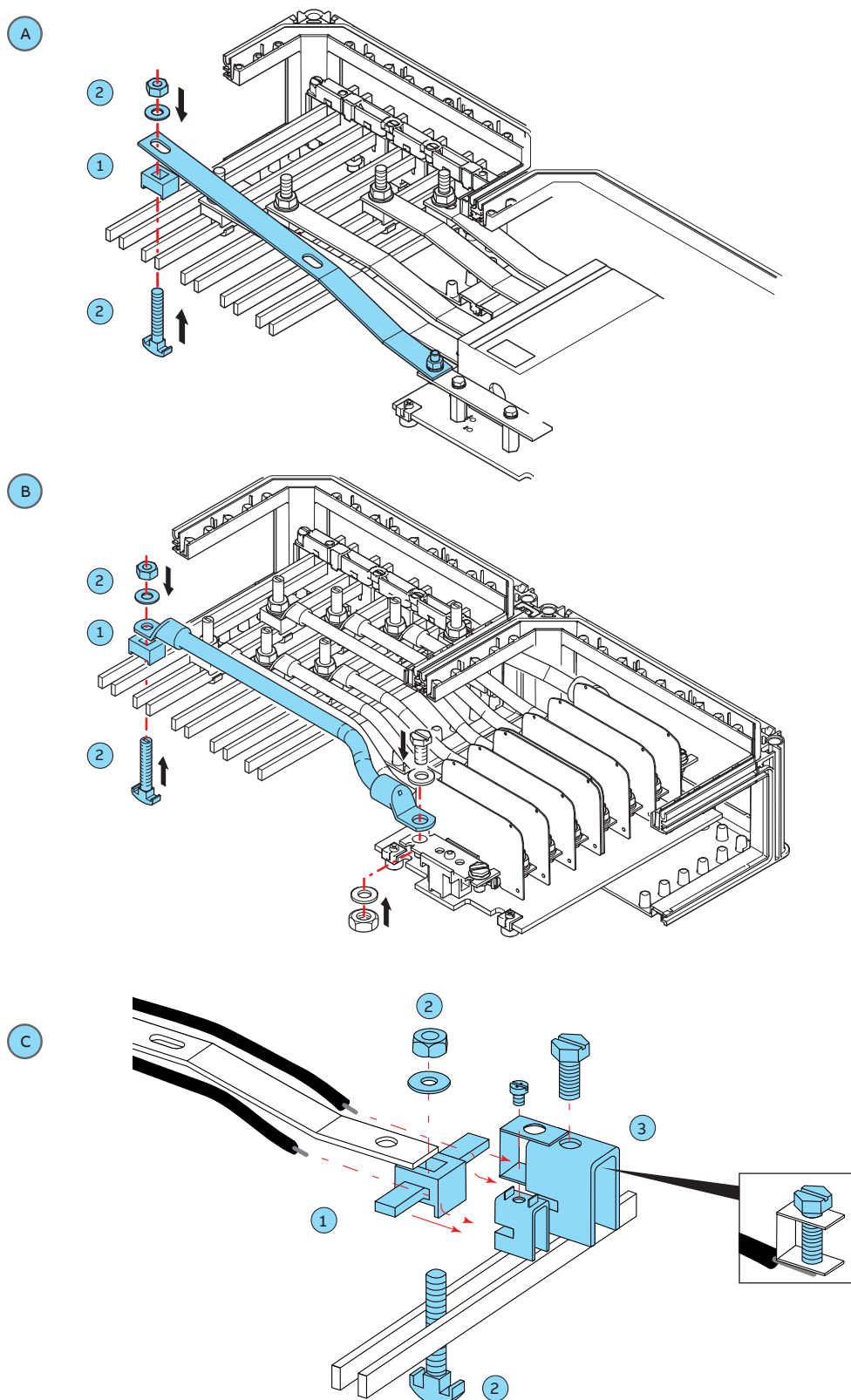


4TBV853077C0100		4TBV853075C0100	4TBV853076C0100
850	1100	250	400
50	50	50	50
45	45	45	45
2 x (20 x 10)	2 x (30 x 10)	2 x (12 x 5)	2 x (20 x 5)
2 x (20 x 5)	2 x (30 x 5)	2 x (12 x 5)	2 x (12 x 5)
50%	50%	100%	50%
320/250	320	320	320
20,8/25	25	15	20
43,6/52,5	53	31	42

## Busbar system

### Parallel configurations: connection to busbars

Connections from devices and PE/N terminals to parallel configurations can be done with connecting busbars (A) or cables (B) without punching operations through the help of contact blocks and T-bolts. Wing contact blocks offer additional in making outgoing connections trough cable-clamps (C)



#### Legend:

- 1 Contact block
- 2 T-bolt + nut/ washer
- 3 Cable Clamps



## Busbar system

Parallel configurations: connection to busbars



4TBO858003C0100



4TBO858004C0100



4TBO858005C0100

A

### Contact blocks for busbars and lugged cables

	Type code	Order code	Pack
	APACC858003	4TBO858003C0100	10
	APACC858004	4TBO858004C0100	10
	APACC858005	4TBO858005C0100	10



B

### T-bolt kit with nut and washer

	<b>For 5mm thick bars</b>			
	M10x60			
	APACC858008	4TBO858008C0100	10	
	<b>For 10mm thick bars</b>			
	M10x60			
	APACC858013	4TBV858013C0100	10	
	<b>For 10mm thick rails</b>			
	M10x80			
	APACC858011	4TBO858011C0100	10	

#### Legend:

b: height of rectangular bars

s: thickness of the rectangular bar or cable-shoe or flat copper

X: minimum bolt length required

L: length of fitting T-bolt

\* For OT1250 with 60x10 connecting busbars please use 2 blocks per busbar

\*\* For XT7 with 50x15 connecting busbars please use 2 blocks per busbar

b	s	x	L
12	5	40	60
12	10	45	60
20	5	48	60
20	10	53	60
30	5	58	60
30	10	63	80



4TBO858006C0100

### Wing contact blocks for lugged/unlugged cables 16-35-70-120 mm²

	Type code	Order code	Pack
	APACC858006	4TBO858006C0100	10
	APACC858007	4TBO858007C0100	10



### T-bolt kit with nut and washer

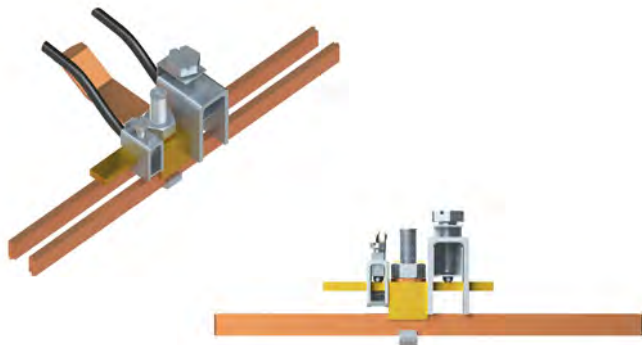
	<b>For 5mm thick rails</b>			
	M10x60			
	APACC858008	4TBO858008C0100	10	
	<b>For 10mm thick rails</b>			
	M10x60			
	APACC858013	4TBV858013C0100	10	
	<b>For 10mm thick rails</b>			
	M10x80			
	APACC858011	4TBO858011C0100	10	

b	s	x	L
12	-	42	60
12	5	47	60
12	10	52	60
20	-	50	60
20	5	55	60
20	10	60	60
30	-	60	60
30	5	65	80
30	10	70	80

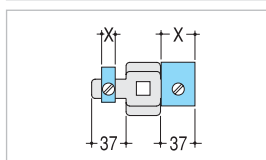


C

### Cable clamps for connecting unlugged cables to the contact block wings



Cable section mm² Min.	Cable section mm² Max.	Clamp width X (mm)	Type code	Order code	Pack
1.5	16	11.5	APACC858026	4TBO858026C0100	20
1.5	35	15.5	APACC858028	4TBO858028C0100	10
16	70	20.5	APACC858032	4TBO858032C0100	10
16	120	23.5	APACC858033	4TBO858033C0100	10



## Busbar system

Parallel configurations: busbars

ZX400

Article	Unit	Type code	Order code
<b>Rated current (<math>I_n</math>) 250 A</b> Copper rail 12 x 5 mm			
1 m	1	ZX400	2CPX061400R9999
2 m	1	ZX401	2CPX061401R9999
3 m	1	ZX402	2CPX061402R9999
4 m	1	ZX350	2CPX061350R9999

ZX406

<b>Rated current (<math>I_n</math>) 320 A</b> Copper rail 20 x 5 mm			
1 m	1	ZX406	2CPX061406R9999
2 m	1	ZX407	2CPX061407R9999
3 m	1	ZX408	2CPX061408R9999
4 m	1	ZX351	2CPX061351R9999

ZX403

<b>Rated current (<math>I_n</math>) 360 A</b> Copper rail 12 x 10 mm			
1 m	1	ZX403	2CPX061403R9999
2 m	1	ZX404	2CPX061404R9999
3 m	1	ZX405	2CPX061405R9999
4 m	1	ZX354	2CPX061354R9999

ZX365

<b>Rated current (<math>I_n</math>) 390 A</b> Copper rails 25 x 5 mm			
1 m	1	ZX365	2CPX061365R9999
2 m	1	ZX366	2CPX061366R9999
3 m	1	ZX367	2CPX061367R9999
4 m	1	ZX352	2CPX061352R9999

ZX409

<b>Rated current (<math>I_n</math>) 440 A</b> Copper rails 30 x 5 mm			
1 m	1	ZX409	2CPX061409R9999
2 m	1	ZX410	2CPX061410R9999
3 m	1	ZX411	2CPX061411R9999
4 m	1	ZX353	2CPX061353R9999

ZX362

<b>Rated current (<math>I_n</math>) 500 A</b> Copper rails 20 x 10 mm			
1 m	1	ZX362	2CPX061362R9999
2 m	1	ZX363	2CPX061363R9999
3 m	1	ZX364	2CPX061364R9999
4 m	1	ZX355	2CPX061355R9999

ZX412

<b>Rated current (<math>I_n</math>) 630 A</b> Copper rails 30 x 10 mm			
1 m	1	ZX412	2CPX061412R9999
2 m	1	ZX413	2CPX061413R9999
3 m	1	ZX414	2CPX061414R9999
4 m	1	ZX356	2CPX061356R9999

Busbar system

Parallel configurations: busbar connectors and cable sets



4TBV854310C0100

Copper connection kits for parallel busbar configurations  
Includes copper connector and fastening materials

Description	Rated nominal current In (A)	Type code	Order code	Pack, pcs.
Parrallel busbar connection kit 250A	250	VA-BC-P-250	4TBV854308C0100	1
Parrallel busbar connection kit 400A	400	VA-BC-P-400	4TBV854309C0100	1
Parrallel busbar connection kit 630A\850A	630\850	VA-BC-P-630	4TBV854310C0100	1
Parrallel busbar connection kit 1250A	1250	VA-BC-P-1250	4TBV854311C0100	1



4TBV854292C0100

- Cable sets
- For connecting devices and terminals to busbar systems
  - With cable lug on one end only so length of cable could be adjusted
  - 5 cables in one connection kit
  - Double insulation

Description	Rated nominal current In (A) max	Type code	Order code	Cables in Pack, pcs.
Cable set 16mm² (5 pcs.)	60	VW-16	4TBV854290C0100	5
Cable set 25mm² (5 pcs.)	100	VW-25	4TBV854291C0100	5
Cable set 35mm² (5 pcs.)	130	VW-35	4TBV854292C0100	5








Notes

Notes section with horizontal lines for writing.

## Busbar system

### Flat configurations: busbar supports

	Description	N/PE load*, %	Rated I <sub>n</sub> max.*	Type code	Order code	Pack, pcs.
 <b>4TBV854315C0100</b>	<b>Busbar support for parallel/flat configurations</b> In: 160 A - 250 A Fastening elements are included in delivery kit. Busbar support is universal and can be used for both types of configurations.	100%	250 A	VXXSWNG5	4TBV854315C0100	10
 <b>4TBV828322C0100</b>	<b>Busbar support for flat configurations</b> In: 250 A - 630 A Fastening elements are included in delivery kit. <div>            Busbar copper length formula for 630A 4TBV828322C0100 (see page 82 for illustration):            Length of the busbar copper L1-L3= Total width of all bases (busbar compartment) - 5 mm.            Length of the busbar copper PE/N= Total width of all bases (busbar compartment) - 40 mm.         </div>	83%	630 A	VXXSW65	4TBV828322C0100	10
 <b>4TBV853075C0100</b>	<b>Busbar support for parallel/flat configurations</b> In: 160 A - 250 A Fastening elements are included in delivery kit. Busbar support is universal and can be used for both types of configurations.	50%	250 A	VXXSWNE5	4TBV853075C0100	10
 <b>4TBV853076C0100</b>	<b>Busbar support for parallel/flat configurations</b> In: 160 A - 250 A Fastening elements are included in delivery kit. Busbar support is universal and can be used for both types of configurations.	50%	250 A	VXXSWNF5	4TBV853076C0100	10

\* Specified characteristics are valid for flat configurations only. Detailed information about applicable busbar crosssections, rated current, max. distance, I<sub>cw</sub>, etc. is located on next pages

Busbar system

Flat configurations: busbar supports



Order code	4TBV854315C0100		4TBV853075C0100 4TBV853076C0100	4TBV853075C0100 4TBV853076C0100
Rated nominal current In (A)	160	250	160	250
Center distance between phase busbars (mm)	40	40	40	40
Center distance between N/PE and phase busbar (mm)	50	50	50	50
Busbars				
Qty x cross section of phase busbar	1 x (12 x 5)	1 x (12 x 10)	1 x (12 x 5)	1 x (12 x 10)
Qty x cross section of N/PE busbar	1 x (12 x 5)	1 x (12 x 10)	1 x (12 x 5)	1 x (12 x 5)
N/PE load capacity	100%	100%	100%	50%
Dynamic short-circuit resistance				
Max. distance between busbar supports (mm)	320	320	320	320
Icw phase busbar (kA), 1 sec	20	21	20	20
Ipk phase busbar (kA), 1 sec	40	44,7	40	40



4TBV828322C0100				
250	300	400	450	630
60	60	60	60	60
50/51	37/56	37/56	37/56	39,5/58,5
1 x (12 x 5)	1 x (20 x 5)	1 x (30 x 5)	1 x (20 x 10)	1 x (30 x 10)
1 x (12 x 5)	1 x (20 x 5)	1 x (25 x 5)	1 x (20 x 10)	1 x (25 x 10)
100%	100%	83%	100%	83%
250	250	250	250	250
11	15	22,5	22,5	30
18,7	30	48	48	63



## Busbar system

Flat configurations: preassembled boxes with supports



4TBV853423C0100

**For busbars 250/400A (100% PE/N) and 630A (50% PE/N) with 60mm center distance**

- Base with four open sides without end plates
- Transparent cover
- With busbar holders 4TBV828322C0100 for 3f + N + PE
- Busbar center distance 60 mm
- For 5-pole, horizontally arranged busbars (flat orientation)
- For 12 x 5 mm, 30 x 5 mm and 30 x 10 mm busbars
- Busbars are not included (select from table below)

Description	External dimensions (HxWxD, mm)	Busbar cross-section, mm x mm	Max nominal current, A	Icw, kA	Type code	Order code	Pack, pcs.
VMS 32V with 60mm busbar support 250A/400A/630A 5 pole	320 x 220 x 179	20 x 5 30 x 5 30 x 10 + 25 x 10 (N/PE)	630		VB32VT-BF630	4TBV853419C0100	1
VMS 33 with 60mm busbar 250A/400A/630A 5 pole	320 x 320 x 179	20 x 5 30 x 5 30 x 10 + 25 x 10 (N/PE)	630		VB33HT-BF630	4TBV853420C0100	1
VMS 43H with 60mm busbar support 250A/400A/630A 5 pole	320 x 440 x 179	20 x 5 30 x 5 30 x 10 + 25 x 10 (N/PE)	630		VB43HT-BF630	4TBV853423C0100	1
VMS 63H with 60mm busbar support 250A/400A/630A 5 pole	320 x 640 x 179	20 x 5 30 x 5 30 x 10 + 25 x 10 (N/PE)	630		VB63HT-BF630	4TBV853424C0100	1



Busbar copper length formula for 630A 4TBV828322C0100 (see page 82 for illustration):  
 Length of the busbar copper L1-L3= Total width of all bases (busbar compartment) - 5 mm.  
 Length of the busbar copper PE/N= Total width of all bases (busbar compartment) - 40 mm.

## Busbar system

### Flat configurations: busbars

#### Busbar kits

- 5 flat copper busbars in one kit



4TBV853797C0100

4TBV853798C0100

Description	Busbar cross-section, mm x mm	Max nominal current, A	Compatible enclosure code	Type code	Order code	Kits in Pack, pcs.	Busbars in Pack, pcs.
Busbar kit 250A, Length = 215 mm, 60 mm busbar center distance, flat orientation, 5 pcs.	20 x 5	250	4TBV853419C0100	VC32VT-BF250	4TBV853781C0100	1	5
Busbar kit 400A, Length = 215 mm, 60 mm busbar center distance, flat orientation, 5 pcs.	20 x 10	400	4TBV853419C0100	VC32VT-BF400	4TBV853782C0100	1	5
Busbar kit 630A, Length = 215 mm, 60 mm busbar center distance, flat orientation, 5 pcs.	30 x 10 (L1-L3) 25 x 10 (N/PE)	630	4TBV853419C0100	VC32VT-BF630	4TBV853783C0100	1	5
Busbar kit 250A, Length = 315 mm, 60 mm busbar center distance, flat orientation, 5 pcs.	20 x 5	250	4TBV853420C0100	VC33VT-BF250	4TBV853784C0100	1	5
Busbar kit 400A, Length = 315 mm, 60 mm busbar center distance, flat orientation, 5 pcs.	20 x 10	400	4TBV853420C0100	VC33VT-BF400	4TBV853797C0100	1	5
Busbar kit 630A, Length = 315 mm, 60 mm busbar center distance, flat orientation, 5 pcs.	30 x 10 (L1-L3) 25 x 10 (N/PE)	630	4TBV853420C0100	VC33VT-BF630	4TBV853798C0100	1	5
Busbar kit 250A, Length = 435 mm, 60 mm busbar center distance, flat orientation, 5 pcs.	20 x 5	250	4TBV853423C0100	VC43HT-BF250	4TBV853799C0100	1	5
Busbar kit 400A, Length = 435 mm, 60 mm busbar center distance, flat orientation, 5 pcs.	20 x 10	400	4TBV853423C0100	VC43HT-BF400	4TBV853800C0100	1	5
Busbar kit 630A, Length = 435 mm, 60 mm busbar center distance, flat orientation, 5 pcs.	30 x 10 (L1-L3) 25 x 10 (N/PE)	630	4TBV853423C0100	VC43HT-BF630	4TBV853801C0100	1	5
Busbar kit 250A, Length = 635 mm, 60 mm busbar center distance, flat orientation, 5 pcs.	20 x 5	250	4TBV853424C0100	VC63HT-BF250	4TBV853802C0100	1	5
Busbar kit 400A, Length = 635 mm, 60 mm busbar center distance, flat orientation, 5 pcs.	20 x 10	400	4TBV853424C0100	VC63HT-BF400	4TBV853803C0100	1	5
Busbar kit 630A, Length = 635 mm, 60 mm busbar center distance, flat orientation, 5 pcs.	30 x 10 (L1-L3) 25 x 10 (N/PE)	630	4TBV853424C0100	VC63HT-BF630	4TBV853804C0100	1	5



4TBV783267C0100

#### Busbar connector in flat configuration

To be used for connecting two busbars between adjacent enclosures

Max device current, A	Type code	Order code	Pack, pcs.
630 A	VXXRWNG1	4TBV783267C0100	1

## Busbar system

Flat configurations: connection to busbars



ZK79



ZK81



ZK150



ZK178



ZK87



ZK157



ZK154



ZK156

Article	Copper rails Dimensions in mm	Connection cross-section in mm <sup>2</sup>	Unit	Type code	Order code
Connecting terminals for latching onto copper rails With retaining spring	5	1.5 - 16	1	ZK79	2CPX064879R9999
			4	ZK79P4	2CPX062421R9999
			5	ZK79P5	2CPX062631R9999
			50	ZK79P50	2CPX062429R9999
	5	4 - 35	1	ZK81	2CPX064881R9999
			4	ZK81P4	2CPX062422R9999
			5	ZK81P5	2CPX062632R9999
			50	ZK81P50	2CPX062431R9999
	5	2.5 - 50	1	ZK150	2CPX064860R9999
			4	ZK150P4	2CPX062427R9999
			5	ZK150P5	2CPX062633R9999
			50	ZK150P50	2CPX062432R9999
	5	16 - 70	1	ZK178	2CPX064978R9999
			50	ZK178P50	2CPX062622R9999
	5	16 - 120	1	ZK157	2CPX064867R9999
			50	ZK157P50	2CPX062437R9999
	10	1.5 - 16	1	ZK87	2CPX064887R9999
			4	ZK87P4	2CPX062424R9999
			50	ZK87P50	2CPX062430R9999
	10	16 - 70	1	ZK156	2CPX064866R9999
			50	ZK156P50	2CPX062438R9999
	10	16 - 120	1	ZK154	2CPX064864R9999
			50	ZK154P50	2CPX062435R9999

### Alternative delivery format

Busbar thickness mm	Cable section (mm <sup>2</sup> )		Clamp width X (mm)	Type code	Order code	Pack, pcs.
	Min.	Max.				
5	1.5	16	11.5	APACC858026	4TBO858026C0100	20
5	4	35	15.5	APACC858028	4TBO858028C0100	10
5	16	70	20.5	APACC858032	4TBO858032C0100	10
5	16	120	20.5	APACC858033	4TBO858033C0100	10
10	1.5	16	11.5	APACC858027	4TBO858027C0100	10
10	1.5	35	15.5	APACC858029	4TBO858029C0100	10
10	16	70	20.5	APACC858030	4TBO858030C0100	10
10	16	120	30.5	APACC858031	4TBO858031C0100	10



Notes

Lined area for notes, consisting of 30 horizontal lines.

## Mounting frames

## Mounting frames

### Index

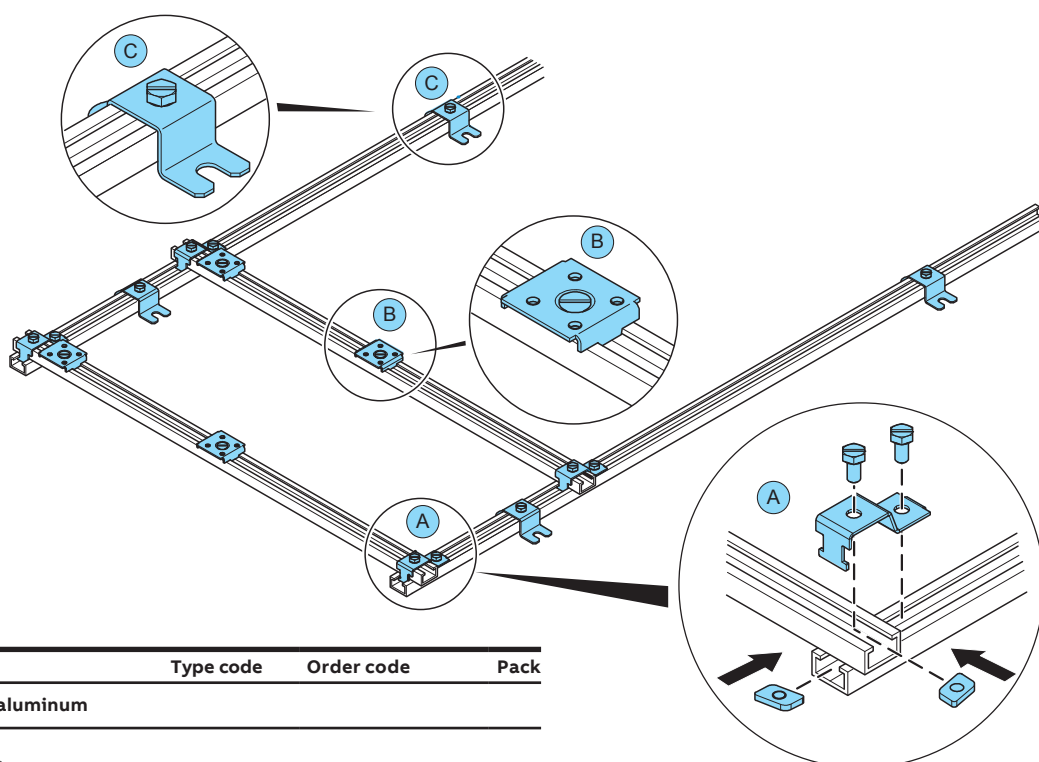
Mounting frames	
Wall-mounting frame	102
Floor-standing frame	103

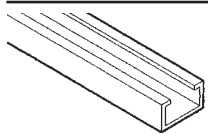
## Mounting frames


### Wall-mounting frame


- Fixing small panels onto the wall can be done with stainless steel mounting brackets: 4TBV853064C0100 refer to chapter "VMS individual components"
- To transport and fix panels with more than five enclosures, the use of a frame is essential.
- The frame includes at least 2 horizontal C-profiles (of an equal length to the width of the unit) and vertical C-profiles (equal to the number of rows +1).
- If the panel exceeds a height of 1000mm, three horizontal C-profiles are required.
- The vertical C-profiles are 140mm longer than the height of the assembled panel.
- The frame and the panel are assembled simultaneously.


Please refer to System Manual (p. 23) for detailed explanation of assembly steps:




Product	Type code	Order code	Pack
<b>C-Profile in aluminum</b>			
	30 x 17 x 3mm Length = 3 m		
	APACC851254	4TBO851254C0100	5

Product	Type code	Order code	Pack
<b>Clamping bracket with sliding nuts <span style="color: #00AEEF;">A</span></b>			
	With bolts and two sliding nuts M8. To mount the upper and lower C-profiles to the vertical support-profiles		
	APACC851253	4TBO851253C0100	10

Product	Type code	Order code	Pack
<b>Screw M6 x 12 DIN 84</b>			
	For connection VMS box to fixation plate (B)		
	VRS612	4TBV853256C0100	50

Product	Type code	Order code	Pack
<b>Box fixation plate <span style="color: #00AEEF;">B</span></b>			
	Delivered with bolt and sliding nut. To fix the enclosures onto the vertical support profiles.		
	APACC851415	4TBO851415C0100	10

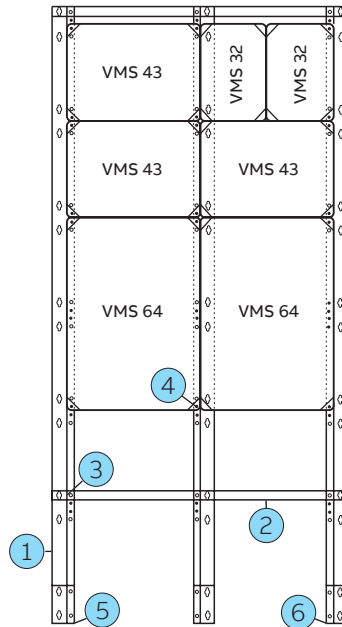
Product	Type code	Order code	Pack
<b>Clamping bracket with sliding nut <span style="color: #00AEEF;">C</span></b>			
	To fix the frame to a wall.		
	APACC851249	4TBO851249C0100	10



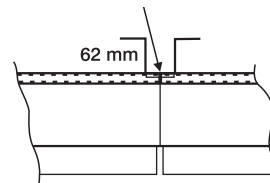
## Mounting frames

### Floor-standing frame

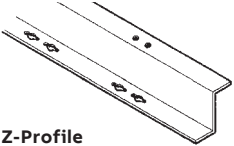



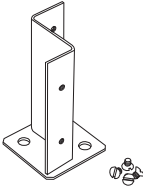
Please refer to System Manual (p. 25) for detailed explanation of assembly steps and limitations of the frame.



Position of the vertical profile in case of transport separation and / or expansion



### Accessories








	Type code	Order code	Pack
 Z-Profile	<b>① Vertical Z-profile - RAL 9001</b>		
	Aluzinc - L = 2 360 mm, for 6 × 320	VXXFWNJ7	4TBV855515C0100
	Aluzinc - L = 2 040 mm, for 5 × 320	VXXFWNJ8	4TBV855516C0100
	Aluzinc - L = 1 080 mm, for 3 × 320	VXXFWNJ9	4TBV855517C0100
	Aluzinc - L = 760 mm, for 2 × 320	VXXFWNJ0	4TBV855518C0100
 C-Profile	<b>② Horizontal - C-profile (steel)</b>		
	Length = 3 000 mm	ACC811619	4TBC811619C0100
 4TBV855519C0100	<b>③ Fixation bracket</b>		
	Fixation bracket to connect the vertical and horizontal profiles	VXXFWNJA	4TBV855519C0100
 M5×16 DIN 7500-C-TORX	<b>④ Screw</b>		
	M5×16 DIN 7500-C - TORX	VXXFWNJB	4TBV855520C0100
 Stand support	<b>Stand support</b>		
	<b>⑤ Left</b>	VXXFWNJC	4TBV855521C0100
	<b>⑥ Right</b>	VXXFWNJD	4TBV855522C0100

## VMS individual components

# VMS

## VMS individual components





		Type code	VMS 32	VMS 33	VMS 43	VMS 63	VMS 64
	Base	H×W×D	320×220×130	320×320×130	440×320×130	640×320×130	640×440×130
	With four open sides	Type code	V32BWNJ6	V33BWNJ6	V43BWNJ6	V63BWNJ6	V64BWNJ6
		Order code	4TBV853000C0100	4TBV853001C0100	4TBV853002C0100	4TBV853003C0100	4TBV853004C0100
		Pack	4	2	2	1	1
4TBV853002C0100							
	Cover transparent	H×W×D	320×220×50	320×320×50	440×320×50	640×320×50	640×440×50
	With slotted screws	Type code	V32CTNJ6_R	V33CTNJ6_R	V43CTNJ6_R	V63CTNJ6_R	V64CTNJ6_R
		Order code	4TBV854173C0100	4TBV854174C0100	4TBV854178C0100	4TBV854179C0100	4TBV854183C0100
		Pack	4	2	2	1	1
4TBV854178C0100							
	Cover solid	H×W×D	320×220×50	320×320×50	440×320×50	640×320×50	640×440×50
	With slotted screws	Type code	V32CBNJ6_R	V33CBNJ6_R	V43CBNJ6_R	V63CBNJ6_R	V64CBNJ6_R
		Order code	4TBV854184C0100	4TBV854193C0100	4TBV854194C0100	4TBV854198C0100	4TBV854199C0100
		Pack	4	2	2	1	1
4TBV854194C0100							
	Cover Hinged	H×W×D	-	320×320×50	440×320×50	-	-
	With double closure system Opening at 215°	Type code	-	V33CPNJ6_R	V43CPNJ6_R	-	-
		Order code	-	4TBV854200C0100	4TBV854201C0100	-	-
		Pack	-	2	2	-	-
4TBV854201C0100							
	Depth extension frame	H×W×D	320×220×75	320×320×75	440×320×75	640×320×75	640×440×75
	With fixing screws	Type code	V32WDNJ6	V33WDNJ6	V43WDNJ6	V63WDNJ6	V64WDNJ6
		Order code	4TBV853030C0100	4TBV853031C0100	4TBV853032C0100	4TBV853033C0100	4TBV853034C0100
		Pack	4	2	2	1	1
4TBV853032C0100							
	Metal mounting plate, 2mm With mounting set	H×W×D	260×160	260×260	380×260	580×260	580×380
	Pertinax, 5mm With mounting set	Type code	V32MWNJ6	V33MWNJ6	V43MWNJ6	V63MWNJ6	V64MWNJ6
		Order code	4TBV853068C0100	4TBV853069C0100	4TBV853070C0100	4TBV853071C0100	4TBV853072C0100
		Pack	1	1	1	1	1
4TBV853115C0100							
	Solid cover plate Grey (RAL7035) Insulated material, 2mm With mounting set	H×W×D	301×201	301×301	421×301	621×301	621×421
		Type code	V32PWNJ7	V33PWNJ7	V43PWNJ7	V63PWNJ7	V64PWNJ7
		Order code	4TBV853103C0100	4TBV853104C0100	4TBV853105C0100	4TBV853106C0100	4TBV853107C0100
		Pack	1	1	1	1	1
4TBV853105C0100							

## VMS


### VMS individual components

Closure plates					
 4TBV855034C0100	Metric sizes	Type code	Order code	Pack	Size
	3xM32 / M25 + 3xM20	VX2EWNJ7	4TBV855029C0100	1/10	220
	1xM50 / M40 + 4xM25 / M20	VX2EWNJ8	4TBV855030C0100	1/10	220
	3xM50 / M40 + 4xM16	VX3EWNJ9	4TBV855032C0100	1/10	320
	17xM20	VX3EWNJ0	4TBV855033C0100	1/10	320
	1xM50 / M40 + 2xM32 / M25 + 4xM25 / M20	VX3EWNJA	4TBV855034C0100	1/10	320
	12xM25 / M20	VX3EWNJB	4TBV855035C0100	1/10	320
	4xM40 / M32 + 3xM20	VX3EWNJC	4TBV855036C0100	1/10	320
	1xM40 / M32 + 16xM25 / M20	VX4EWNJ8	4TBV855037C0100	1/10	440
	1xM50 / M40 + 2xM40 / M32 + 8xM25 / M20	VX4EWNJ9	4TBV855038C0100	1/10	440



  

Product	Type code	Order code	Pack
Closure plates			
 4TBV853020C0100	Side (mm) 220	VX2EWNJ6	4TBV853017C0100
			1/10
	Side (mm) 320	VX3EWNJ6	4TBV853020C0100
			1/10
 4TBV853027C0100	Side (mm) 440	VX3EWNJ7	4TBV853027C0100
			1/10


  

Plates with cable entries			
 4TBV853082C0100	Ø cable max.: 2 x 75 mm		
	Side (mm) 320	VX3EWNJ6	4TBV853082C0100
			1/5
	Ø cable max.: 3 x 75 mm		
	Side (mm) 440	VX4EWNJ6	4TBV853083C0100
			1/5


  

Cable grip support			
With a cable clamp Ø max.: 75mm			
 4TBV853036C0100	Side (mm) 320	VX3LWNJ6	4TBV853036C0100
			1/5
 4TBV853037C0100	Side (mm) 440	VX4LWNJ6	4TBV853037C0100
			1/5

Stress-relieving cable clamp			
For fixing on the cable clamp support			
 VXXLWNJ6	Ø cable max.: 75mm		
		4TBV853035C0100	1

Bridges			
Facilitate the connection of large-section cables			
 4TBV853073C0100	Side (mm) 320	VX3AWNJ6	4TBV853073C0100
			1
	Side (mm) 440	VX4AWNJ6	4TBV853074C0100
			1

Product	Type code	Order code	Pack
Coupling dowels			
 4TBV853059C0100	For base coupling		
	VXXAWNJ8	4TBV853059C0100	20

Fixation pin			
 4TBV853055C0100	For end-plates (as a spare part)		
	VXXEWNJ6	4TBV853055C0100	10

Coupling set 2 x 220			
 4TBV853063C0100	To couple two sides of 220mm to one side of 440mm With mounting accessories		
	VXXAWNJA	4TBV853063C0100	1

Coupling clamp			
 4TBV853062C0100	For coupling in special cases		
	VXXAWNJ9	4TBV853062C0100	10







Universal support			
 4TBV853060C0100	To fit: - mounting plates and DIN-rails - copper rails 15 x 3 - copper rails 9 x 6.5 - mounting rail 12 x 2mm		
	VX3UWNJ6	4TBV853060C0100	10









  

Marking strip			
 2CPX038241R9999	Self-adhesive		
	ZA10	2CPX038241R9999	1m

## VMS

### VMS individual components

Product	Type code	Order code	Pack
<b>Symmetrical DIN-profiles</b>			
Always supplied with two universal supports			
	Side (mm) 220		
	VX2AWNj6	4TBV853094C0100	1
	Side (mm) 320		
	VX3AWNj6	4TBV853095C0100	1
	Side (mm) 440		
4TBV853095C0100	VX4AWNj6	4TBV853096C0100	1
	Side (mm) 640		
	VX6AWNj6	4TBV853269C0100	1
<b>Mounting rails 12 x 2mm</b>			
To fit connection terminal blocks. Always delivered with 2 universal supports.			
	Side (mm) 320		
	VX3AWNj7	4TBV853098C0100	1
	Side (mm) 440		
4TBV853098C0100	VX4AWNj7	4TBV853099C0100	1
<b>Partition plates</b>			
For complete compartmentalization of coupled bases.			
	Side (mm) 220		
	VX2TWNj6	4TBV853065C0100	1
	Side (mm) 320		
	VX3TWNj6	4TBV853066C0100	1
4TBV853066C0100	Side (mm) 440		
	VX4TWNj6	4TBV853067C0100	1
<b>Fixing lugs</b>			
Set of 4 brackets with screws.			
<ul style="list-style-type: none"> <li>- In stainless steel.</li> <li>- For external fixing points.</li> <li>- Direct fitting through the four corner shafts of the base.</li> <li>- To be installed prior to the extension frame or hinge installation.</li> <li>- Three optional mounting positions (0°, 45°, 90°).</li> </ul>			
	VXXAWNjB	4TBV853064C0100	1
	4TBV853064C0100		
<b>Air vent - IP55</b>			
Installation of two air vents per box to obtain ventilation preventing the formation of condensation. Set of 2 pieces.			
	ACC818078	4TBJ818078R0100	1
	4TBJ818078R0100		
<b>Blanking plate</b>			
For 12 modules			
	ZA1P5	2CPX062384R9999	5
	2CPX062384R9999		
2CPX062384R9999	ZA1P50	2CPX062378R9999	50

Product	Type code	Order code	Pack
<b>Cover screws</b>			
	Set of 4 pieces.		
	VXXCWNj6_R	4TBV854344C0100	1
4TBV854344C0100			
<b>Hinge screws</b>			
The base must be fixed before hinge installation.			
Set of 2 pieces.			
	VXXHWNj6_R	4TBV854345C0100	1
	4TBV854345C0100		
<b>Hinges made of molded material</b>			
To mount the hinges, the cover and the base must be pierced. Drilling templates are provided. The kit includes: two hinges, screws, reinforcement plates, drilling gage and instructions. Set of 2 pieces.			
	VXXHWNj7	4TBV853340C0100	1
	4TBV853340C0100		
<b>Clip-in button</b>			
For quick opening/closing of cover screws. Set of 4 pieces.			
	VXXAWNj7_R	4TBV854346C0100	1
	4TBV854346C0100		
<b>Screws</b>			
	For fixation in the base.		
	5 x 13		
	VXXAWNjC	4TBV853100C0100	50
	5 x 16		
4TBV853100C0100	VXXAWNjD	4TBV853101C0100	50
	5x22		
	VXXAWNjA	4TBV853102C0100	50
To fix the equipment onto the metal mounting plates.			
<b>Screws for depth extension frame</b>			
	Replacement parts		
	VXXDWNj6	4TBV853056C0100	4
4TBV853056C0100			
<b>Fixation set for cover plate</b>			
	Replacement parts		
	VXXPWNj7	4TBV853053C0100	1
4TBV853053C0100			
<b>Fixation set for mounting plate</b>			
	For metal or Pertinax		
	Replacement parts		
4TBV853054C0100	VXXIWNj6	4TBV853054C0100	1

—

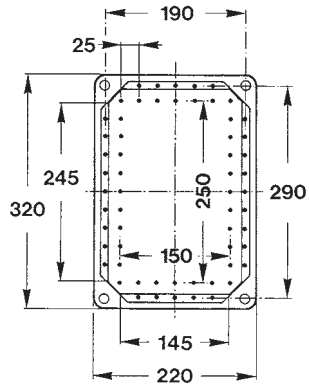
06

## **Drawings. Power dissipation values**

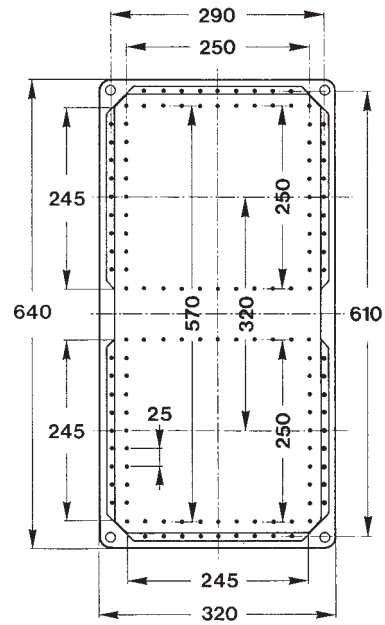
# VMS

## Drawings

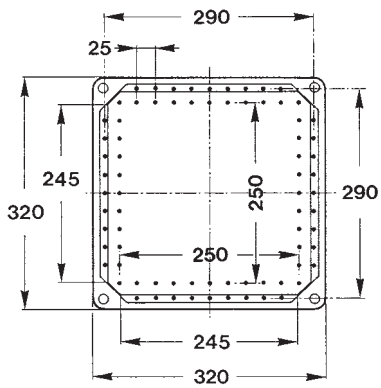
VMS 32



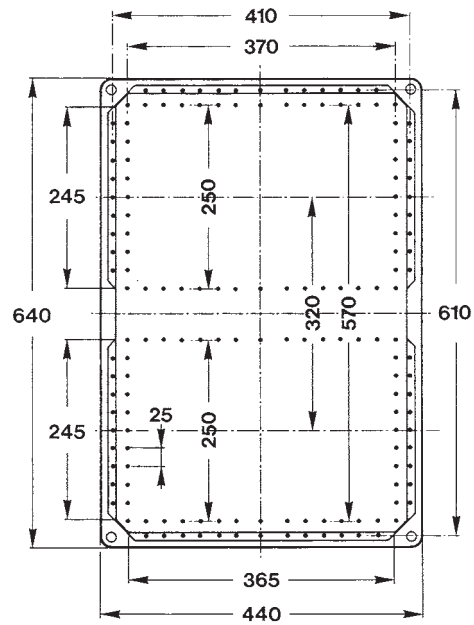
VMS 63



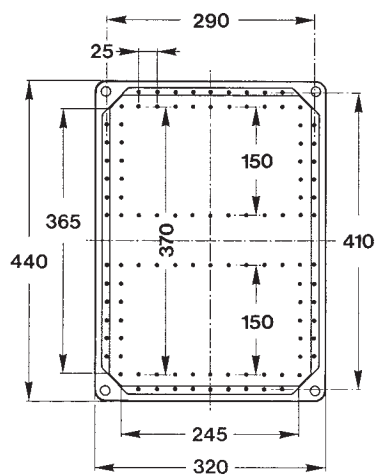
VMS 33



VMS 64



VMS 43



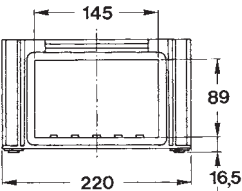


VMS

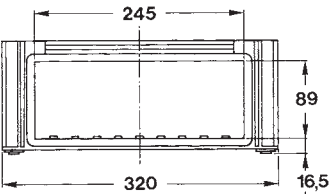
Drawings

Openings in the base side walls

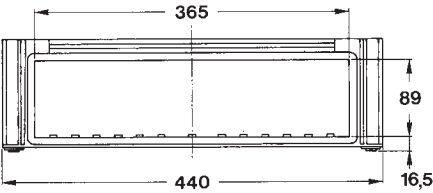
Side 220



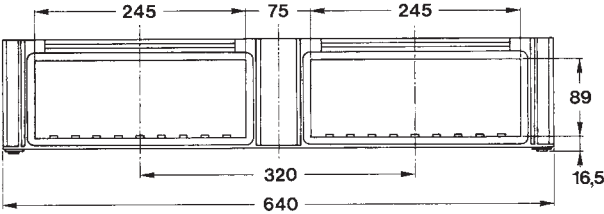
Side 320



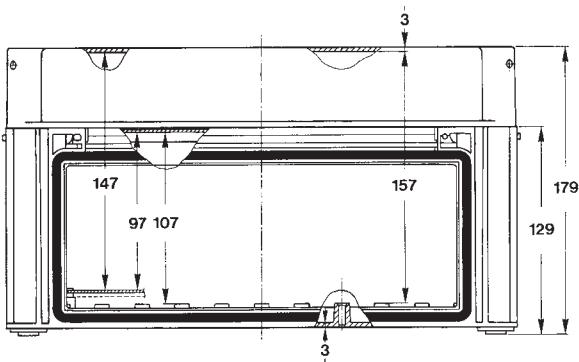
Side 440



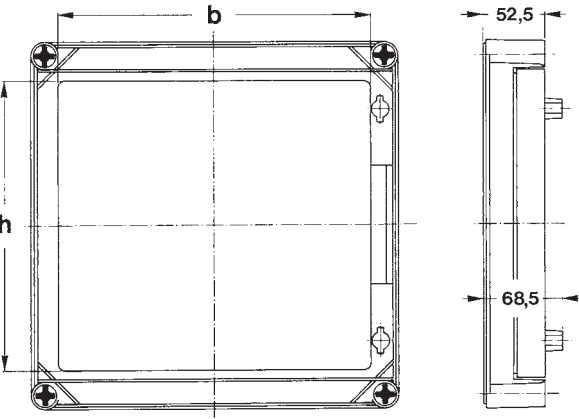
Side 640



Built-in heights



Pivoting covers



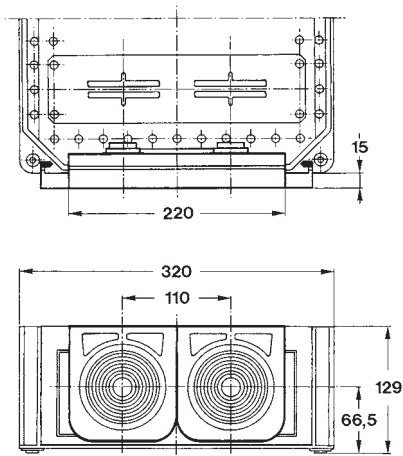
Type	Dimensions	b	h
VMS 33	320×320mm	260	241
VMS 43	440×320mm	260	361

VMS

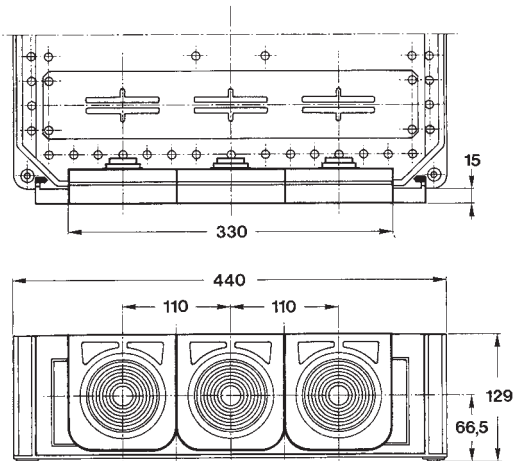
Drawings

Cable end plates and universal cable stress releases

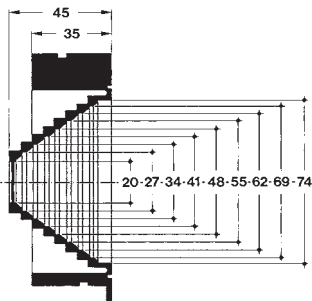
Side 320



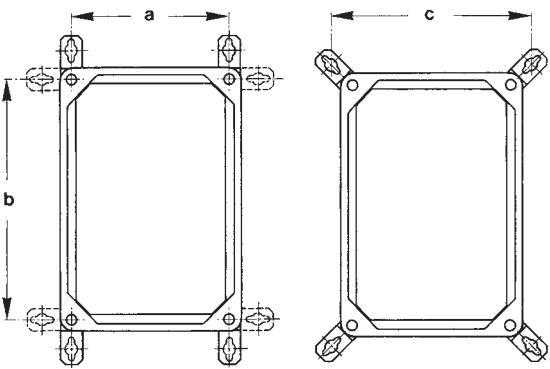
Side 440



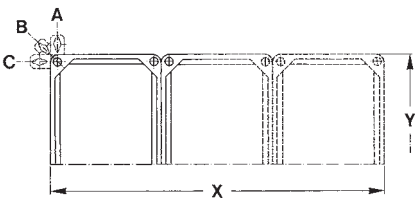
Side view



Mounting brackets



Type	Dimensions	a	b	c
VMS 32	320×220 mm	193	293	254
VMS 33	320×320 mm	293	293	354
VMS 43	440×320 mm	293	413	354
VMS 63	640×320 mm	293	613	354
VMS 64	640×440 mm	413	613	474

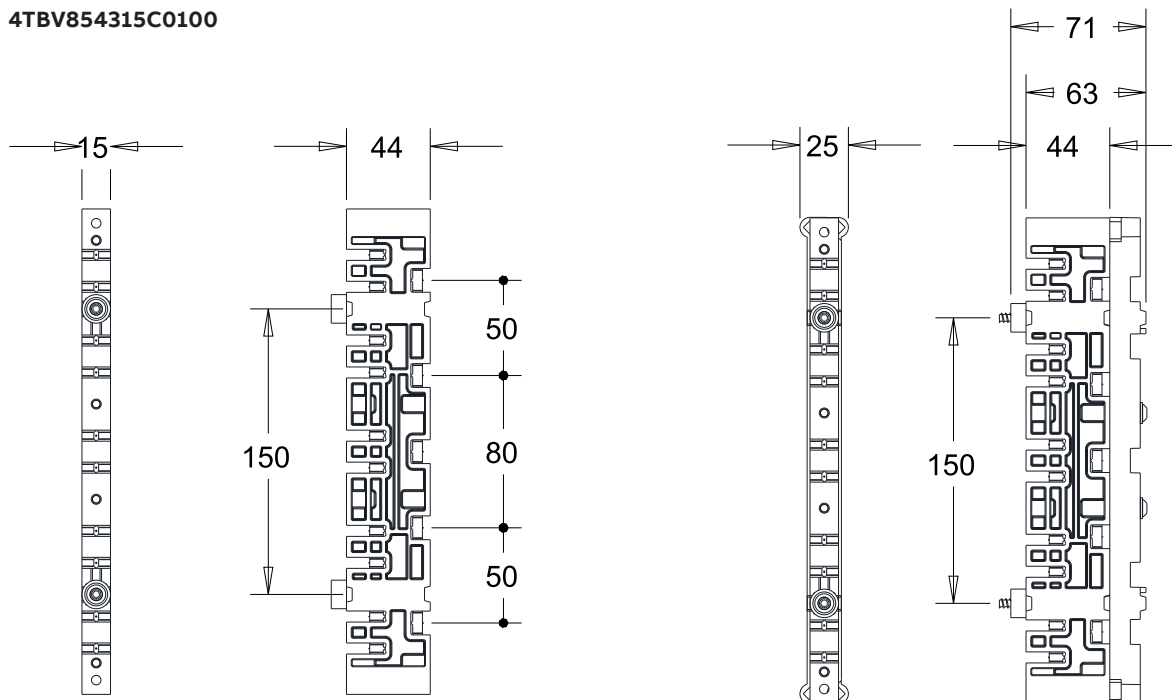


Centre dimensions		
A	X - 27	Y + 40
B	X + 34	Y + 34
C	X + 40	Y - 27

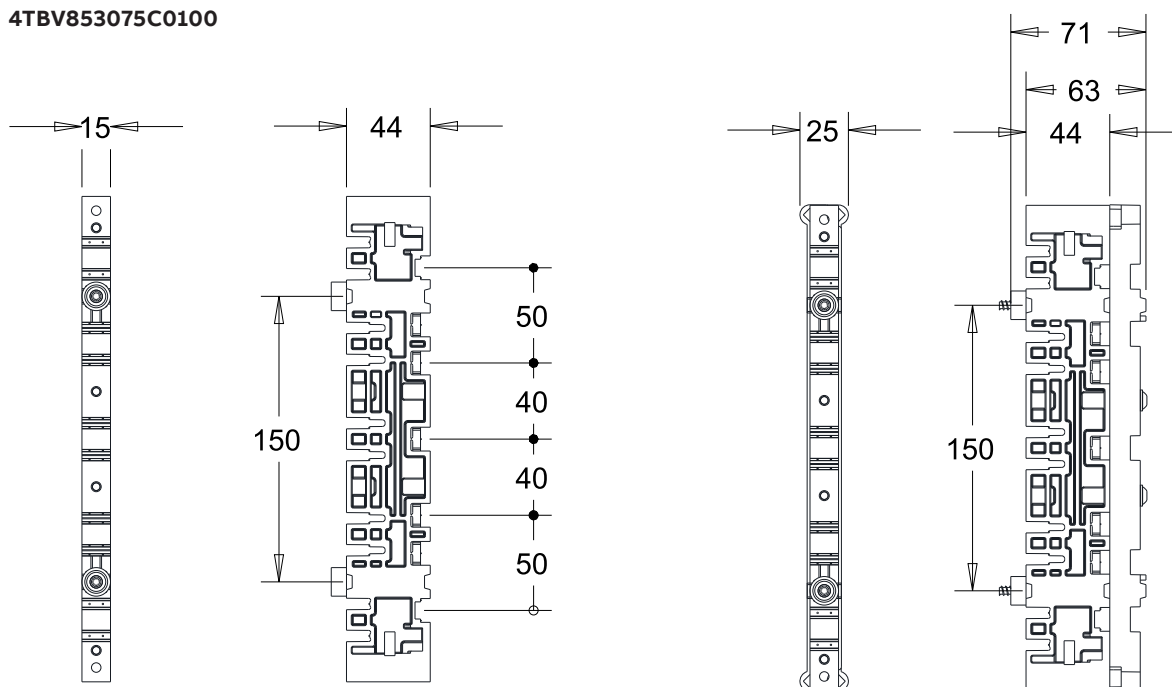
## VMS

### Drawings: busbar supports

#### 4TBV854315C0100



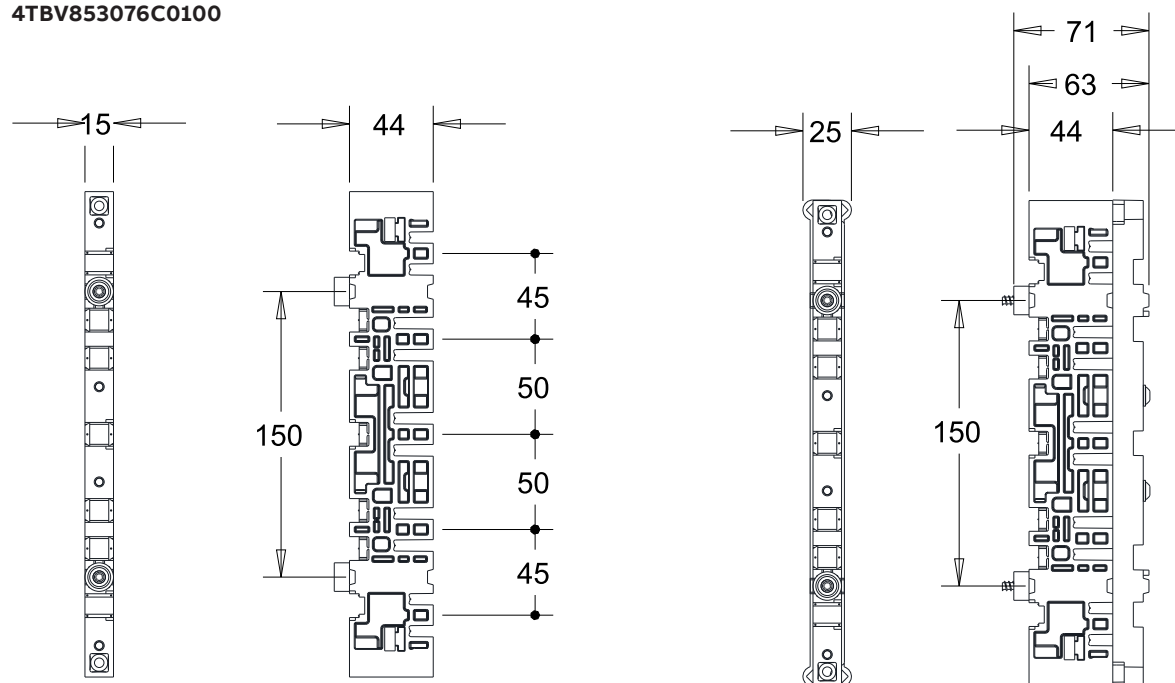
#### 4TBV853075C0100



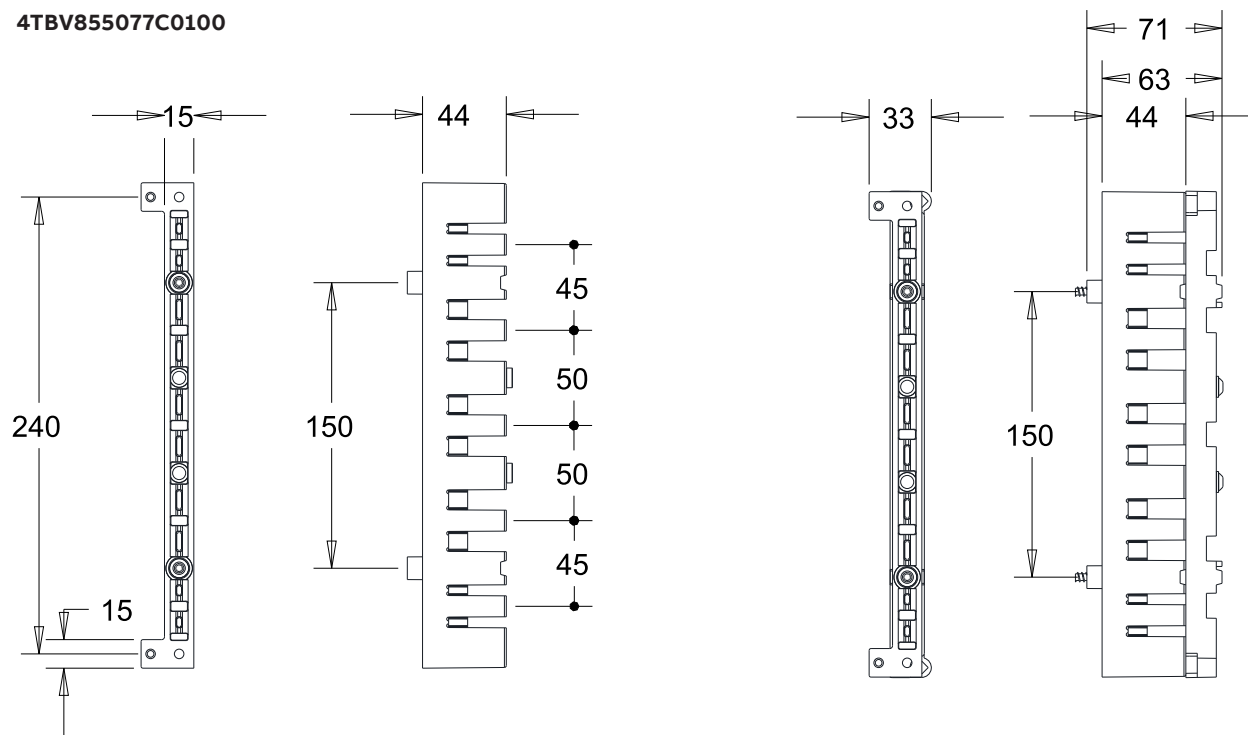
## VMS

### Drawings: busbar supports

#### 4TBV853076C0100



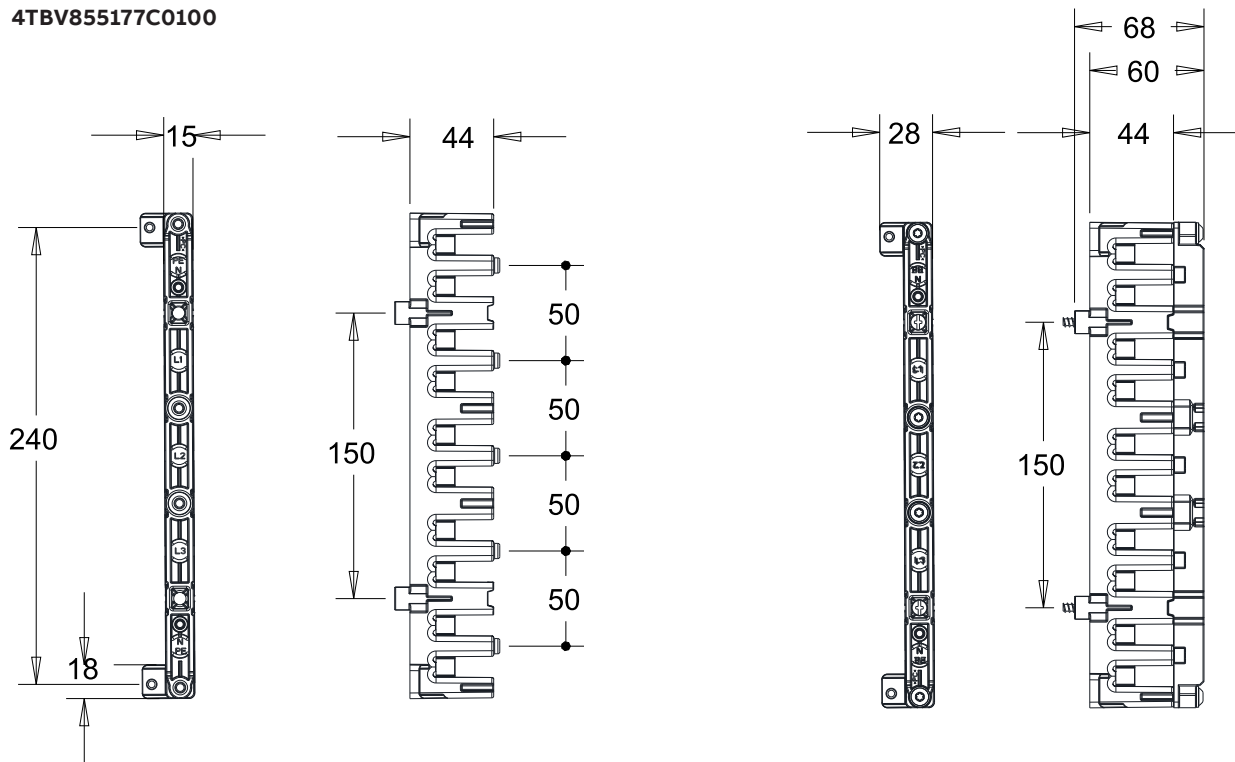
#### 4TBV855077C0100



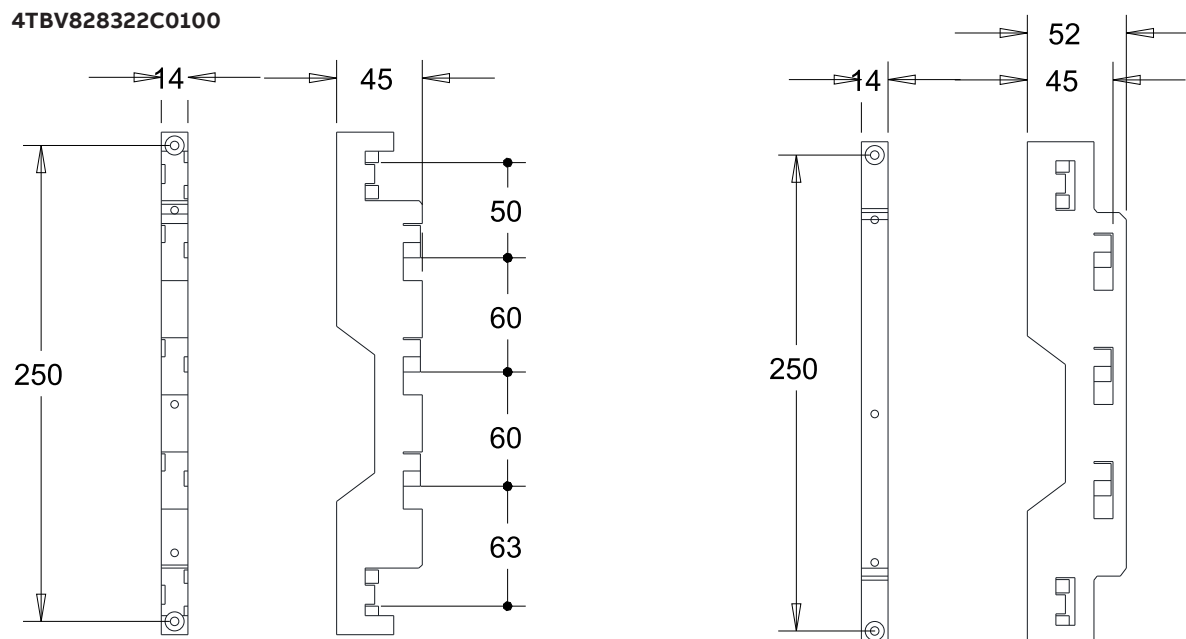
## VMS

### Drawings: busbar supports

#### 4TBV855177C0100



#### 4TBV828322C0100





Notes

Lined area for notes, consisting of multiple horizontal lines.

## Power dissipation values




## VMS

### Power dissipation values

Frontside and upperside free																				
Temperature rise [Kelvin]																				
Dissi- pation Watt	VMS 32 320×220×180		VMS 32 320×220×255		VMS 33 320×320×180		VMS 33 320×320×255		VMS 43 440×320×180		VMS 43 440×320×255		VMS 63 640×320×180		VMS 63 640×320×255		VMS 64 640×440×180		VMS 64 640×440×255	
	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top
10	13	16	11	14	10	12	9	10	9	10	8	9	7	9	6	8	6	7	5	6
20	22	27	20	24	18	22	15	18	15	18	13	16	12	15	11	13	10	12	9	11
30	31	37	27	33	25	30	21	25	21	25	18	22	17	21	15	18	14	17	12	15
40	38	47	34	42	32	38	27	32	26	32	23	28	21	26	18	23	17	21	15	19
50	46	57	41	50	38	45	32	38	31	38	28	34	25	31	22	28	20	25	18	22
60	53		47		44	52	37	44	36	44	32	39	29	36	26	32	24	29	21	26
70			53		50		42	50	41	50	36	44	33	41	29	36	27	33	24	29
80					55		47	56	46	56	40	49	37	46	32	40	30	37	27	33
90							52		50		44	54	40	50	35	44	33	40	29	36
100							56		54		48		44	55	39	48	36	44	32	39
120											56		51		45	56	41	51	37	45
140															51		47		42	51
160															56		52		46	
180																			51	

Frontside free, upperside not free																				
Temperature rise [Kelvin]																				
Dissi- pation Watt	VMS 32 320×220×180		VMS 32 320×220×255		VMS 33 320×320×180		VMS 33 320×320×255		VMS 43 440×320×180		VMS 43 440×320×255		VMS 63 640×320×180		VMS 63 640×320×255		VMS 64 640×440×180		VMS 64 640×440×255	
	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top	Half	Top
10	14	17	12	15	12	14	10	12	9	11	8	10	7	9	7	8	6	7	5	7
20	24	30	22	27	20	24	18	22	16	20	15	18	13	16	12	14	11	13	10	12
30	33	41	30	37	28	34	25	30	22	27	20	25	18	22	16	20	15	18	13	16
40	42	52	38	46	36	42	32	38	28	34	26	31	22	28	20	25	18	23	17	21
50	50		45	55	43	51	38	45	34	41	31	38	27	33	24	30	22	27	20	25
60			52		49		44	52	39	48	35	43	31	39	28	35	26	31	23	28
70					56		50		44	54	40	49	35	44	32	39	29	36	26	32
80							55		49		45	55	39	49	35	44	32	40	29	36
90									54		49		43	54	39	48	35	43	32	39
100											54		47		42	52	39	47	35	43
120													54		49		45	55	40	50
140															55		50		46	56
160																	56		51	
180																			56	



## Type codes

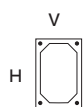
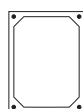
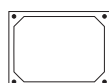
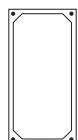
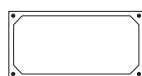
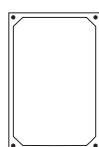
## Type codes

### Index

Type codes	
Boxes	120
Connecting busbar Kits	122
Busbar/cable Kits between OT and FH or between PE and N	124
Individual parts	124

## Type codes

### Boxes

**32V****32H****33H****43V****43H****63V****63H****64V****64H**

### Boxes

Cabinetttype			
<b>VB</b>	VMS Box		
<b>VF</b>	VMS Functional unit		

Dimension of box with cover (H x W x D)			
<b>32</b>	320 x 220 x 179	<b>63</b>	640 x 320 x 179
<b>33</b>	320 x 320 x 179	<b>64</b>	640 x 440 x 179
<b>43</b>	440 x 320 x 179		

Orientation			
<b>H</b>	Horizontal	<b>-</b>	Universal
<b>V</b>	Vertical		

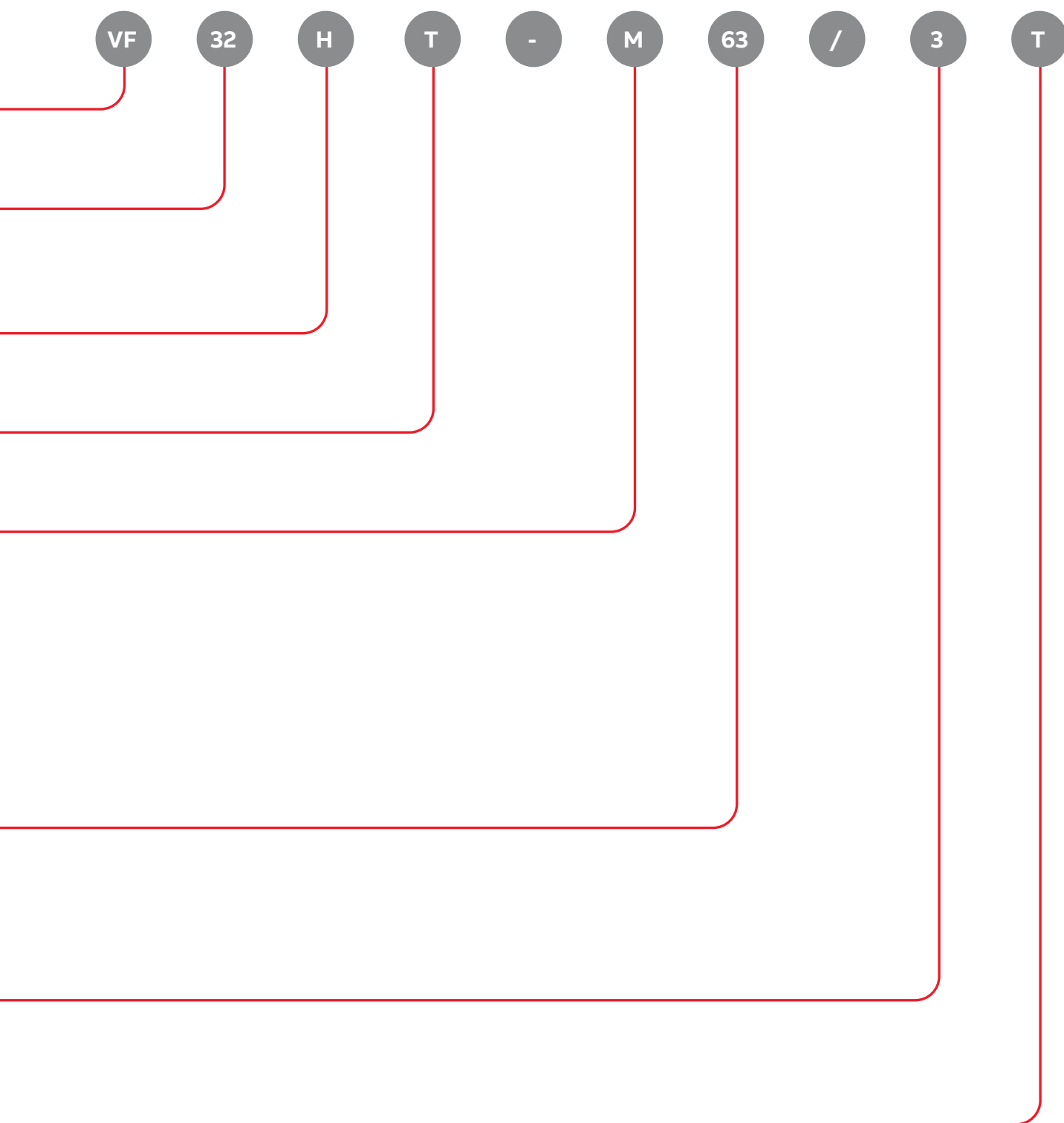
Cover			
<b>W</b>	Without cover	<b>T</b>	Transparent cover
<b>O</b>	Opaque cover	<b>P</b>	Pivoting cover

Function			
<b>B</b>	Busbar box	<b>N</b>	No function
<b>BF</b>	Busbar box flat copper	<b>P</b>	Mounting Plate
<b>C</b>	Change over box OT	<b>Q</b>	Metering
<b>D</b>	DIN-rail box 125 mm	<b>S</b>	Switch box OT
<b>DX</b>	DIN-rail box 150 mm	<b>SP</b>	SPD / S750 for 40 mm busbar
<b>E</b>	Empty box	<b>X</b>	Fuse switch XLP
<b>F</b>	Switch box OS	<b>XT</b>	MCCB box XT + size
<b>H</b>	Fuse holder box OFAZ	<b>XZ</b>	Fuse switch XLP for 60 mm busbar
<b>HD</b>	Fuse holder box D-type	<b>Z</b>	Fuse switch Inline II
<b>K</b>	kWh meter box		

Amp rating			
<b>40</b>	40A	<b>400</b>	400A / DIN2
<b>63</b>	63A	<b>630</b>	630A / DIN3
<b>125</b>	125A	<b>800</b>	800A
<b>160</b>	160A / DIN00	<b>1000</b>	1000A
<b>250</b>	250A / DIN1	<b>1250</b>	1250A

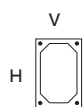
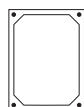
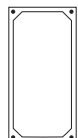
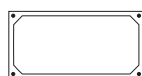
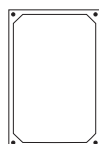
No of poles			
<b>1</b>	1 pole		
<b>2</b>	2 pole	<b>4</b>	4 pole
<b>3</b>	3 poles		

Position of MBB relative to box	
<b>T</b>	Above box
<b>B</b>	Below box



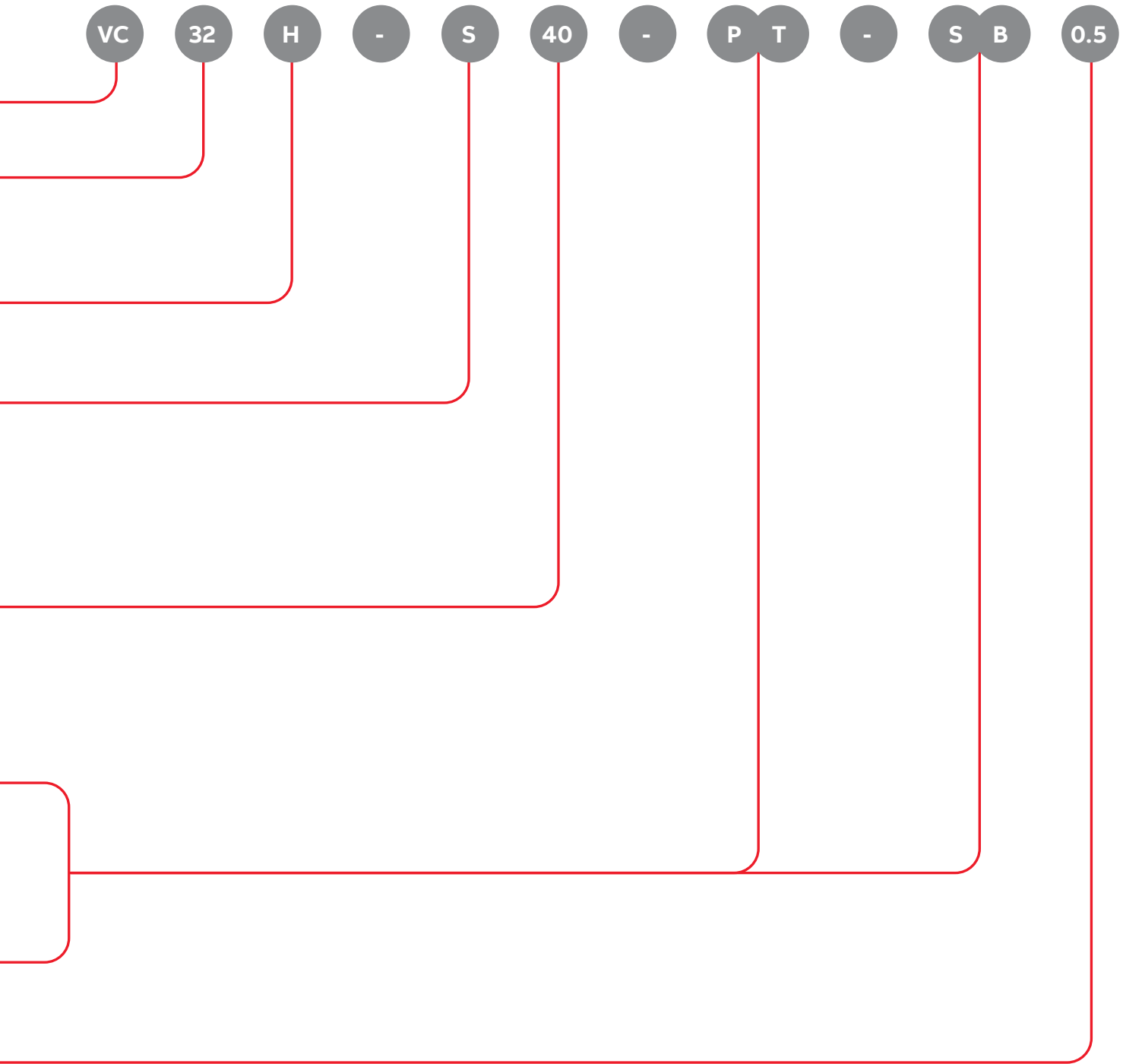
## Type codes

### Connecting busbar kits

**32V****32H****33H****43V****43H****63V****63H****64V****64H**

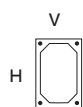
#### Busbar Kits

Kit type			
VC	VMS busbar kit		
Dimension of box with cover (H x W x D)			
32	320 x 220 x 179	63	640 x 320 x 179
33	320 x 320 x 179	64	640 x 440 x 179
43	440 x 320 x 179		
Orientation			
H	Horizontal	-	Universal
V	Vertical		
Function			
B	Busbar box	S	Switch box OT
BF	Busbar box flat copper	X	Fuse switch XLP
C	Change over box OT	XT	MCCB box XT + size
F	Switch box OS	XZ	Fuse switch XLP for 60 mm busbar
H	Fuse holder box OFAZ	Z	Fuse switch ZLB
HD	Fuse holder box D-type		
Amp rating			
40	40A	400	400A / DIN2
63	63A	630	630A / DIN3
125	125A	800	800A
160	160A / DIN00	1000	1000A
250	250A / DIN1	1250	1250A
Application			
P	Phase		
S	Solid Neutral		
N	Neutral		
PE	Earth		
PEN	Combined neutral and earth		
Position of MBB relative to enclosure when kit is used for PE or PEN connection			
T	Above box	-	Universal
B	Below box		
N/PE/PEN load capacity			
0.5	50%		
-	100%		



## Type codes

Busbar/cable Kits between OT and FH or between PE and N



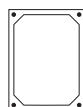
**32V**



**32H**



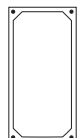
**33H**



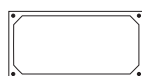
**43V**



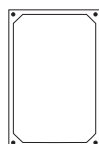
**43H**



**63V**



**63H**



**64V**



**64H**

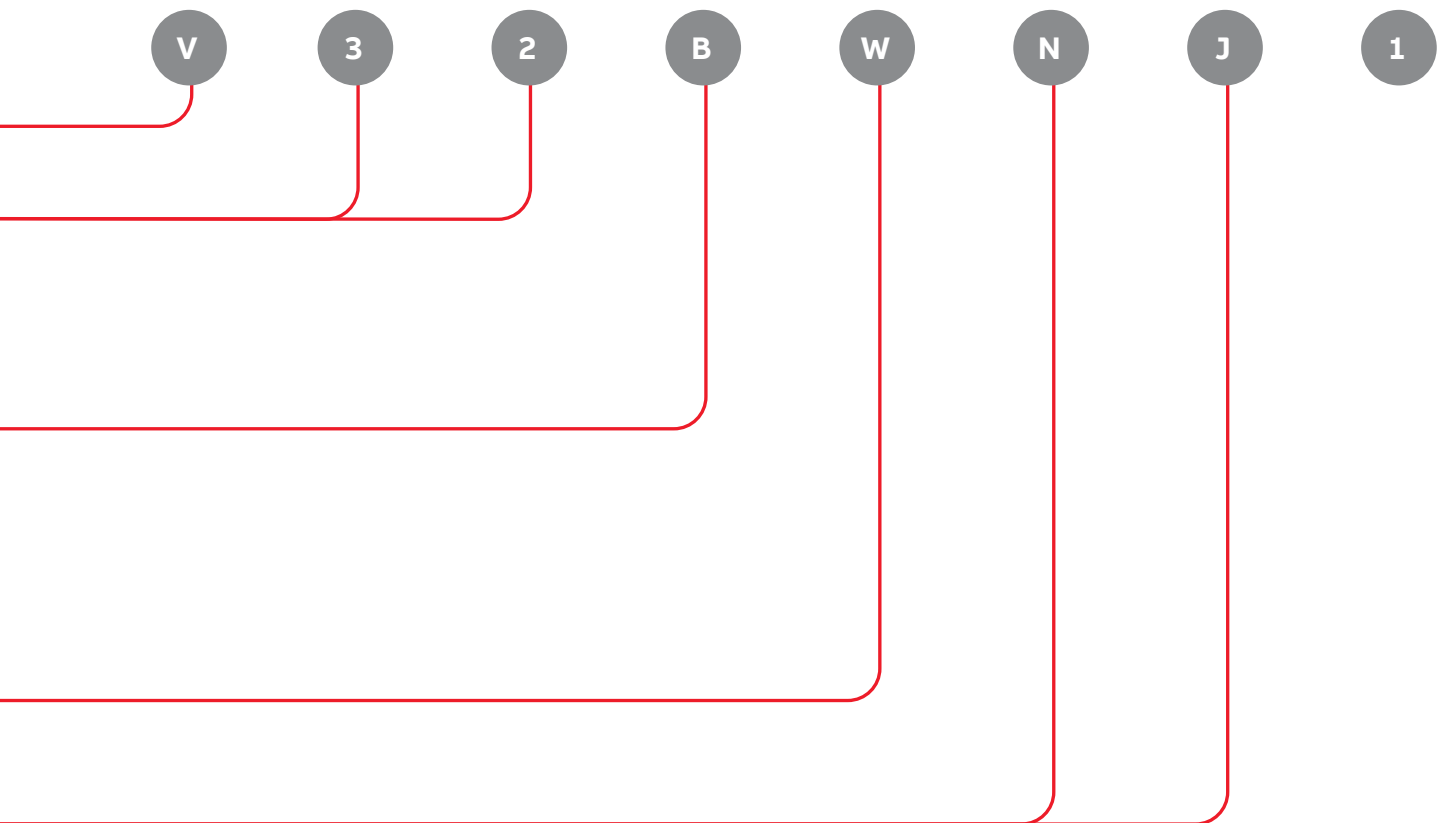
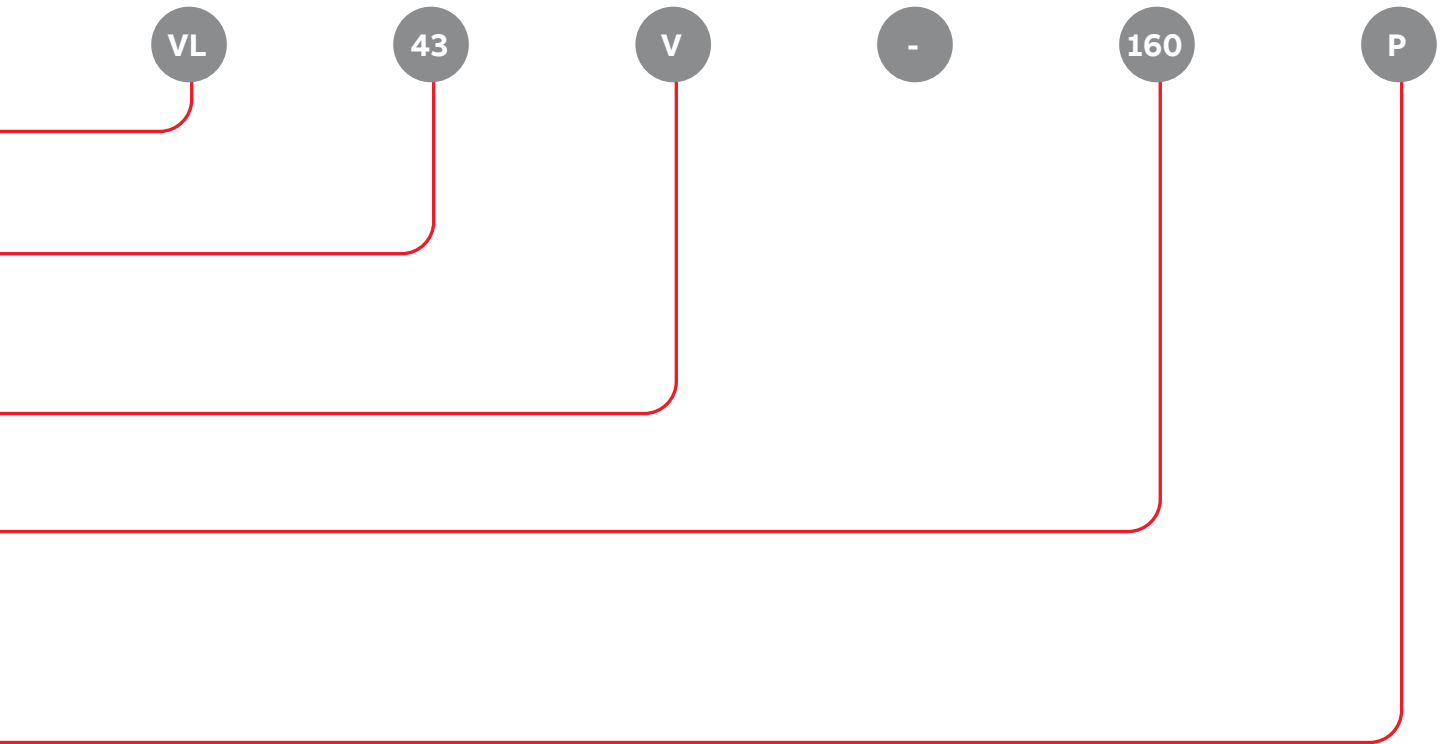
### Busbar/cable Kits between OT and FH or between PE and N

Kit type			
<b>VL</b>	VMS Busbar kits between OT and OFAZ		
<b>VK</b>	VMS cable kits between OT and Fuse holders		
Dimension of box with cover (H x W x D)			
<b>32</b>	320 x 220 x 179	<b>63</b>	640 x 320 x 179
<b>33</b>	320 x 320 x 179	<b>64</b>	640 x 440 x 179
<b>43</b>	440 x 320 x 179		
Orientation			
<b>H</b>	Horizontal	-	Universal
<b>V</b>	Vertical		
Amp rating			
<b>40</b>	40A	<b>400</b>	400A / DIN2
<b>63</b>	63A	<b>630</b>	630A / DIN3
<b>125</b>	125A	<b>800</b>	800A
<b>160</b>	160A / DIN00	<b>1000</b>	1000A
<b>250</b>	250A / DIN1		
Application			
<b>P</b>	Phase		
<b>PEN</b>	Combined neutral and earth		

## Individual parts

### Boxes

Cabinettype			
V	VMS		
VMS box type			
32	VMS 32	XX	General
33	VMS 33	X2	Side 220
43	VMS 43	X3	Side 320
63	VMS 63	X4	Side 440
64	VMS 64		
Type			
B	Base	W	Frame wall mounting
M	Metal mounting plate	S	Busbar support
I	Insulated mounting plate	A	Accessory
C	Cover	P	Cover plate
E	Entry plate	R	Rails and connectivity
H	Height extension frame		
F	Frame floor mounting		
Cover			
W	Without cover	T	Transparent cover
O	Opaque cover	P	Pivoting cover
Application			
NJ	General application		





## Index

## Index

### Index

Type code	Order code	Page
VF32HT-N	4TBV853347C0100	22
VF32HO-N	4TBV853348C0100	22
VF33HT-N	4TBV853349C0100	22
VF33HO-N	4TBV853350C0100	22
VF43HT-N	4TBV853355C0100	22
VF43HO-N	4TBV853356C0100	22
VF63HT-N	4TBV853369C0100	22
VF63HO-N	4TBV853370C0100	22
VF64HT-N	4TBV853374C0100	22
VF64HO-N	4TBV853373C0100	22
VF32HT	4TBV853375C0100	22
VF33HT	4TBV853379C0100	22
VF43HT	4TBV853380C0100	22
VF63HT	4TBV853381C0100	22
VF64HT	4TBV853382C0100	22
VB32HT-D	4TBV854347C0100	23
VB33HT-D2	4TBV854348C0100	23
VB43VT-D3	4TBV854349C0100	23
VB43HT-D2	4TBV854350C0100	23
VB63VT-D4	4TBV854351C0100	23
VB64VT-D4	4TBV854352C0100	23
VB63HT-D22	4TBV854353C0100	23
VB33HP-D	4TBV853851C0100	23
VB43VP-DX2	4TBV853853C0100	23
VB63VT-DX3	4TBV853854C0100	23
VA-TC11	4TBV854207C0100	23
ZKS6B 41Z57	2CPX063167R9999 1SPE007715F0731	24
ZKS11B 41Z58	2CPX063168R9999 1SPE007715F0732	24
ZKS16B 41Z59	2CPX063169R9999 1SPE007715F0733	24
ZKS21B 41Z60	2CPX063170R9999 1SPE007715F0734	24
ZKS26B 41Z61	2CPX063171R9999 1SPE007715F0735	24
ZKS6G 41Z62	2CPX063172R9999 1SPE007715F0741	24
ZKS11G 41Z63	2CPX063173R9999 1SPE007715F0742	24
ZKS16G 41Z64	2CPX063174R9999 1SPE007715F0743	24
ZKS21G 41Z65	2CPX063175R9999 1SPE007715F0744	24
ZKS26G 41Z66	2CPX063176R9999 1SPE007715F0745	24
ZK50B 41Z70	2CPX062750R9999 1SPE007715F9701	24
ZK51B 41Z71	2CPX062751R9999 1SPE007715F9702	24
ZK82B 41Z72	2CPX062752R9999 1SPE007715F9703	24
ZK113B 41Z73	2CPX062753R9999 1SPE007715F9704	24
ZK144B 41Z74	2CPX062754R9999 1SPE007715F9705	24
ZK175B 41Z75	2CPX062755R9999 1SPE007715F9706	24

Type code	Order code	Page
ZK206B 41Z76	2CPX062756R9999 1SPE007715F9707	24
ZK237B 41Z150	2CPX063163R9999 1SPE007715F9708	24
ZK268B 41Z151	2CPX063164R9999 1SPE007715F9709	24
ZK50BT	2CPX062745R9999	24
ZK51G 41Z77	2CPX062757R9999 1SPE007715F9712	24
ZK82G 41Z78	2CPX062758R9999 1SPE007715F9713	24
ZK113G 41Z79	2CPX062759R9999 1SPE007715F9714	24
ZK144G 41Z80	2CPX062760R9999 1SPE007715F9715	24
ZK175G 41Z81	2CPX062761R9999 1SPE007715F9716	24
ZK206G 41Z82	2CPX062762R9999 1SPE007715F9717	24
ZK237G 41Z152	2CPX063165R9999 1SPE007715F9718	24
ZK268G 41Z153	2CPX063166R9999 1SPE007715F9719	24
VB32VT-S125/4	4TBV853445C0100	26
VB32HT-S2x63/4	4TBV853519C0100	26
VB32VT-S2x63/4	4TBV853521C0100	26
VB33HT-S4x63/4	4TBV853528C0100	26
VB33HT-S5x40/4	4TBV853530C0100	26
VB32HT-C125/4	4TBV853425C0100	26
VB33HT-C125/4	4TBV853426C0100	26
VB32HT-C125/4	4TBV853425C0100	27
VB33HT-C125/4	4TBV853426C0100	27
VB63HT-C250/4	4TBV853429C0100	27
VTM160	4TBV853681C0100	27
VTM250	4TBV853682C0100	27
VTM160FT-C	4TBV853216C0100	27
VTM160FT-B	4TBV853700C0100	27
VB33HT-S250/4	4TBV853446C0100	28
VB43VT-S250/4	4TBV853447C0100	28
VB63VT-S250/4	4TBV853450C0100	28
VB64VT-F250/4	4TBV853451C0100	28
VB64VT-S400/4	4TBV853452C0100	28
VB64VT-F400/4B	4TBV853471C0100	28
VB64VT-F400/4T	4TBV853472C0100	28
VB64VT-S800/4B	4TBV853473C0100	28
VB64VT-S800/4T	4TBV853474C0100	28
VB68HT-S1250/4	4TBV853490C0100	28
VTM160	4TBV853681C0100	29
VTM250	4TBV853682C0100	29
VTM400	4TBV853683C0100	29
VTM630-50	4TBV853684C0100	29
VTM630	4TBV853685C0100	29
VTM800-50	4TBV853686C0100	29
VTM800	4TBV853687C0100	29
VTM1000-50	4TBV853688C0100	29
VTM1000	4TBV853689C0100	29

## Index

### Index

Type code	Order code	Page
VTM1250	4TBV853690C0100	29
VTM63FT	4TBV853691C0100	30
VTM160FT-C	4TBV853216C0100	30
VTM160FT-B	4TBV853700C0100	30
VTM250FT-BL	4TBV853217C0100	30
VTM630FT-B	4TBV853218C0100	30
VA-TS-OT800	4TBV854355C0100	30
VA-TS-OT1250	4TBV854356C0100	30
VA-TK-OT1250	4TBV854202C0100	31
VA-TC-OT1250	4TBV854203C0100	31
VB32VT-SH40/4	4TBV853611C0100	43
VB32VT-SH63/4	4TBV853610C0100	43
VB43VT-SH125/4	4TBV853612C0100	43
VB43VT-SH2X125/4	4TBV853613C0100	43
VK32V-40P	4TBV854096C0100	43
VK32V-40P	4TBV854098C0100	43
VK43V-80P	4TBV854099C0100	43
VK43V-125P	4TBV854154C0100	43
VB43VT-SH160/4	4TBV853614C0100	44
VB63VT-SH160/4	4TBV853615C0100	44
VB63VT-SH250/4	4TBV853630C0100	44
VB64VT-SH400/4	4TBV853631C0100	44
VB64VT-SH630/4T	4TBV853632C0100	44
VB64VT-SH630/4B	4TBV853633C0100	44
VL43V-160P	4TBV854024C0100	45
VL63V-160P	4TBV854025C0100	45
VL63V-250P	4TBV854026C0100	45
VL64V-400P	4TBV854028C0100	45
VL64V-630P	4TBV854093C0100	45
VTM160	4TBV853681C0100	45
VTM160FT-C	4TBV853216C0100	45
VTM160FT-B	4TBV853700C0100	45
VTM250	4TBV853682C0100	45
VTM250FT-BS	4TBV853780C0100	45
VTM400	4TBV853683C0100	45
VTM630-50	4TBV853684C0100	45
VTM630	4TBV853685C0100	45
VB32VT-XZ160/3	4TBV853214C0100	52
VB33HT-XZ2x160/3	4TBV853221C0100	52
VB43HT-XZ2x160/3	4TBV853634C0100	52
VB63HT-XZ4x160/3	4TBV853222C0100	52
VB63VT-XZ2x160/3T	4TBV853223C0100	52
VB63VT-XZ2x160/3B	4TBV853224C0100	52
VB63VT-XZ250/3T	4TBV853225C0100	52
VB63VT-XZ250/3B	4TBV853230C0100	52
VB64VT-XZ250/3T	4TBV853231C0100	52
VB64VT-XZ250/3B	4TBV853238C0100	52
VA-TF	4TBV854306C0100	53
VA-ZA	4TBV854313C0100	53
ZH425	2CPX062952R9999	53
ZH426	2CPX062953R9999	53

Type code	Order code	Page
ZA4P10	2CPX062374R9999	53
ZE60P10	2CPX062400R9999	54
ZE61	2CPX061046R9999	54
ZE62	2CPX061047R9999	54
VA-CP32V-XLP00	4TBV853239C0100	54
VA-CP33-XLP00	4TBV853240C0100	54
VA-CP63H-XLP00	4TBV853245C0100	54
VA-CP63V-XLP00	4TBV853247C0100	54
VA-CP63V-XLP1-T	4TBV853249C0100	54
VA-CP63V-XLP1-B	4TBV853317C0100	54
VA-CP64V-XLP1-T	4TBV853318C0100	54
VA-CP64V-XLP1-B	4TBV853319C0100	54
VA-CP43H-XLP00	4TBV853635C0100	54
VB32HT-H160/4	4TBV853636C0100	56
VB33HT-H2x160/4	4TBV853658C0100	56
VB43VT-H2x160/4	4TBV853659C0100	56
VB43VT-H250/4	4TBV853660C0100	56
VB63HT-H4x160/4	4TBV853672C0100	56
VB63VT-H250/4	4TBV853679C0100	56
VB63VT-H630/4	4TBV853680C0100	56
VTM160FT-C	4TBV853216C0100	57
VTM160FT-B	4TBV853700C0100	57
VTM250FT-BS	4TBV853780C0100	57
VTM250FT-BL	4TBV853217C0100	57
VTM630FT-B	4TBV853218C0100	57
CS-XLP00-3P	1SEP407793R0001	57
CS-XLP1-3P	1SEP407793R0002	57
CS-XLP23-3P	1SEP407952R0001	57
VB33HT-XT2-160/4	4TBV853532C0100	64
VB43VT-XT4-250/4	4TBV853534C0100	64
VB63VT-XT2-160/4	4TBV853535C0100	64
VB63VT-XT4-250/4	4TBV853569C0100	64
VB63VT-XT5-400/4	4TBV853570C0100	64
VB64VT-XT5-630/4	4TBV853571C0100	64
VB64VT-XT7-1250/4	4TBV853572C0100	64
VSK-XT1-320	4TBV853573C0100	64
VSK-XT2-320	4TBV853574C0100	64
VSK-XT1-320	4TBV853573C0100	64
VSK-XT2-320	4TBV853574C0100	64
VSK-XT3-320	4TBV853575C0100	64
VSK-XT4-320	4TBV853576C0100	64
VSK-XT3-320	4TBV853575C0100	64
VSK-XT4-320	4TBV853576C0100	64
VSK-XT5-320	4TBV853599C0100	64
VSK-XT5-440	4TBV853600C0100	64
VSK-XT6-440	4TBV853601C0100	64
VSK-XT7-440	4TBV853609C0100	64
VTM160FT-C	4TBV853216C0100	65
VTM160FT-B	4TBV853700C0100	65
VTM160FT-C	4TBV853216C0100	65
VTM160FT-B	4TBV853700C0100	65

# Index

## Index

Type code	Order code	Page
VTM250	4TBV853682C0100	65
VTM250	4TBV853682C0100	65
VTM250	4TBV853682C0100	65
VTM250	4TBV853682C0100	65
VTM400	4TBV853683C0100	65
VTM630	4TBV853685C0100	66
VTM630-50	4TBV853684C0100	66
VTM800	4TBV853687C0100	66
VTM800-50	4TBV853686C0100	66
VTM1250	4TBV853690C0100	66
VTM1000-50	4TBV853688C0100	66
VA-XT4S	4TBV853850C0100	67
VA-TK-XT7	4TBV854204C0100	67
VA-TK-XT7-PEN	4TBV854205C0100	67
VB63VT-Z160/3	4TBV853051C0100	78
VB64VT-Z160/3	4TBV853052C0100	78
VA-CP63V-Z00	4TBV853208C0100	79
VA-CP64V-Z00	4TBV853209C0100	79
VA-BC-Z00	4TBV853211C0100	79
ZX964	2CPX042238R9999	79
VB33HP-SP250	4TBV853212C0100	80
VB33HT-SP250	4TBV853343C0100	80
ZX95P2	2CPX062638R9999	80
V43BWKJ6	4TBV853250C0100	81
V63BWKJ6	4TBV853251C0100	81
VF43HT-QR	4TBV854206C0100	81
VF63HT-QR	4TBV854253C0100	81
VB33TDM1	4TBV854240C0100	81
VB33TDM2	4TBV854241C0100	81
VB33TDA1	4TBV854246C0100	81
VXXSWNG5	4TBV854315C0100	85
VXXSWNE5	4TBV853075C0100	85
VXXSWNF5	4TBV853076C0100	85
VXBB855177N	4TBV855177C0100	85
VXXSWNI5	4TBV853077C0100	85
APACC858003	4TBO858003C0100	89
APACC858004	4TBO858004C0100	89
APACC858005	4TBO858005C0100	89
APACC858006	4TBO858006C0100	89
APACC858007	4TBO858007C0100	89
APACC858008	4TBO858008C0100	89
APACC858010	4TBO858010C0100	89
APACC858013	4TBV858013C0100	89
APACC858011	4TBO858011C0100	89
APACC858008	4TBO858008C0100	89
APACC858010	4TBO858010C0100	89
APACC858013	4TBV858013C0100	89
APACC858011	4TBO858011C0100	89
APACC858026	4TBO858026C0100	89
APACC858028	4TBO858028C0100	89
APACC858032	4TBO858032C0100	89
APACC858033	4TBO858033C0100	89

Type code	Order code	Page
ZX400	2CPX061400R9999	90
ZX401	2CPX061401R9999	90
ZX402	2CPX061402R9999	90
ZX350	2CPX061350R9999	90
ZX406	2CPX061406R9999	90
ZX407	2CPX061407R9999	90
ZX408	2CPX061408R9999	90
ZX351	2CPX061351R9999	90
ZX403	2CPX061403R9999	90
ZX404	2CPX061404R9999	90
ZX405	2CPX061405R9999	90
ZX354	2CPX061354R9999	90
ZX365	2CPX061365R9999	90
ZX366	2CPX061366R9999	90
ZX367	2CPX061367R9999	90
ZX352	2CPX061352R9999	90
ZX409	2CPX061409R9999	90
ZX410	2CPX061410R9999	90
ZX411	2CPX061411R9999	90
ZX353	2CPX061353R9999	90
ZX362	2CPX061362R9999	90
ZX363	2CPX061363R9999	90
ZX364	2CPX061364R9999	90
ZX355	2CPX061355R9999	90
ZX412	2CPX061412R9999	90
ZX413	2CPX061413R9999	90
ZX414	2CPX061414R9999	90
ZX356	2CPX061356R9999	90
VA-BC-P-250	4TBV854308C0100	91
VA-BC-P-400	4TBV854309C0100	91
VA-BC-P-630	4TBV854310C0100	91
VA-BC-P-1250	4TBV854311C0100	91
VW-16	4TBV854290C0100	91
VW-25	4TBV854291C0100	91
VW-35	4TBV854292C0100	91
VXXSWNG5	4TBV854315C0100	93
VXXSW65	4TBV828322C0100	93
VXXSWNE5	4TBV853075C0100	93
VXXSWNF5	4TBV853076C0100	93
VB32VT-BF630	4TBV853419C0100	96
VB33HT-BF630	4TBV853420C0100	96
VB43HT-BF630	4TBV853423C0100	96
VB63HT-BF630	4TBV853424C0100	96
VC32VT-BF200	4TBV853781C0100	97
VC32VT-BF400	4TBV853782C0100	97
VC32VT-BF630	4TBV853783C0100	97
VC33VT-BF200	4TBV853784C0100	97
VC33VT-BF400	4TBV853797C0100	97
VC33VT-BF630	4TBV853798C0100	97
VC43HT-BF200	4TBV853799C0100	97
VC43HT-BF400	4TBV853800C0100	97

Index

Index

Type code	Order code	Page
VC43HT-BF630	4TBV853801C0100	97
VC63HT-BF200	4TBV853802C0100	97
VC63HT-BF400	4TBV853803C0100	97
VC63HT-BF630	4TBV853804C0100	97
VXXRWNG1	4TBV783267C0100	97
ZK79	2CPX064879R9999	98
ZK79P4	2CPX062421R9999	98
ZK79P5	2CPX062631R9999	98
ZK79P50	2CPX062429R9999	98
ZK81	2CPX064881R9999	98
ZK81P4	2CPX062422R9999	98
ZK81P5	2CPX062632R9999	98
ZK81P50	2CPX062431R9999	98
ZK150	2CPX064860R9999	98
ZK150P4	2CPX062427R9999	98
ZK150P5	2CPX062633R9999	98
ZK150P50	2CPX062432R9999	98
ZK178	2CPX064978R9999	98
ZK178P50	2CPX062622R9999	98
ZK157	2CPX064867R9999	98
ZK157P50	2CPX062437R9999	98
ZK87	2CPX064887R9999	98
ZK87P4	2CPX062424R9999	98
ZK87P50	2CPX062430R9999	98
ZK156	2CPX064866R9999	98
ZK156P50	2CPX062438R9999	98
ZK154	2CPX064864R9999	98
ZK154P50	2CPX062435R9999	98
APACC858026	4TBO858026C0100	98
APACC858028	4TBO858028C0100	98
APACC858032	4TBO858032C0100	98
APACC858033	4TBO858033C0100	98
APACC858027	4TBO858027C0100	98
APACC858029	4TBO858029C0100	98
APACC858030	4TBO858030C0100	98
APACC858031	4TBO858031C0100	98
APACC851254	4TBO851254C0100	102
APACC851253	4TBO851253C0100	102
VRS612	4TBV853256C0100	102
APACC851415	4TBO851415C0100	102
APACC851249	4TBO851249C0100	102
VXXFWNJ7	4TBV855515C0100	103
VXXFWNJ8	4TBV855516C0100	103
VXXFWNJ9	4TBV855517C0100	103
VXXFWNJ0	4TBV855518C0100	103
ACC811619	4TBC811619C0100	103
VXXFWNJA	4TBV855519C0100	103
VXXFWNJB	4TBV855520C0100	103
VXXFWNJC	4TBV855521C0100	103
VXXFWNJD	4TBV855522C0100	103
V32BWNJ6	4TBV853000C0100	105
V33BWNJ6	4TBV853001C0100	105

Type code	Order code	Page
V43BWNJ6	4TBV853002C0100	105
V63BWNJ6	4TBV853003C0100	105
V64BWNJ6	4TBV853004C0100	105
V32CTNJ6_R	4TBV854173C0100	105
V33CTNJ6_R	4TBV854174C0100	105
V43CTNJ6_R	4TBV854178C0100	105
V63CTNJ6_R	4TBV854179C0100	105
V64CTNJ6_R	4TBV854183C0100	105
V32CBNJ6_R	4TBV854184C0100	105
V33CBNJ6_R	4TBV854193C0100	105
V43CBNJ6_R	4TBV854194C0100	105
V63CBNJ6_R	4TBV854198C0100	105
V64CBNJ6_R	4TBV854199C0100	105
V33CPNJ6_R	4TBV854200C0100	105
V43CPNJ6_R	4TBV854201C0100	105
V32WDNJ6	4TBV853030C0100	105
V33WDNJ6	4TBV853031C0100	105
V43WDNJ6	4TBV853032C0100	105
V63WDNJ6	4TBV853033C0100	105
V64WDNJ6	4TBV853034C0100	105
V32MWNJ6	4TBV853068C0100	105
V33MWNJ6	4TBV853069C0100	105
V43MWNJ6	4TBV853070C0100	105
V63MWNJ6	4TBV853071C0100	105
V64MWNJ6	4TBV853072C0100	105
V32IWNJ6	4TBV853113C0100	105
V33IWNJ6	4TBV853114C0100	105
V43IWNJ6	4TBV853115C0100	105
V63IWNJ6	4TBV853116C0100	105
V64IWNJ6	4TBV853117C0100	105
V32PWNJ7	4TBV853103C0100	105
V33PWNJ7	4TBV853104C0100	105
V43PWNJ7	4TBV853105C0100	105
V63PWNJ7	4TBV853106C0100	105
V64PWNJ7	4TBV853107C0100	105
VX2EWNJ7	4TBV855029C0100	106
VX2EWNJ8	4TBV855030C0100	106
VX3EWNJ9	4TBV855032C0100	106
VX3EWNJ0	4TBV855033C0100	106
VX3EWNJA	4TBV855034C0100	106
VX3EWNJB	4TBV855035C0100	106
VX3EWNJC	4TBV855036C0100	106
VX4EWNJ8	4TBV855037C0100	106
VX4EWNJ9	4TBV855038C0100	106
VX2EWNJ6	4TBV853017C0100	106
VX3EWNJ6	4TBV853020C0100	106
VX3EWNJ7	4TBV853027C0100	106
VX3EWNJ6	4TBV853082C0100	106
VX4EWNJ6	4TBV853083C0100	106
VX3LWNJ6	4TBV853036C0100	106
VX4LWNJ6	4TBV853037C0100	106
VXXLWNJ6	4TBV853035C0100	106
VX3AWNJ6	4TBV853073C0100	106
VX4AWNJ6	4TBV853074C0100	106

100

[illegible][illegible]

—

**ABB Group**

Electrification business

Smart Buildings business line

**[www.abb.com/lowvoltage](http://www.abb.com/lowvoltage)**

**[www.abb.com/buildings](http://www.abb.com/buildings)**

Note:

We reserve the right to make technical changes or modify the contents of this document without prior notification. ABB does not accept any responsibility whatsoever for potential errors or possible lack of information in this document.

We reserve all rights in this document and in the subject matter and illustrations contained therein.

Any reproduction, disclosure to third parties or utilization of its contents – in whole or in part – is forbidden without prior written consent of ABB.