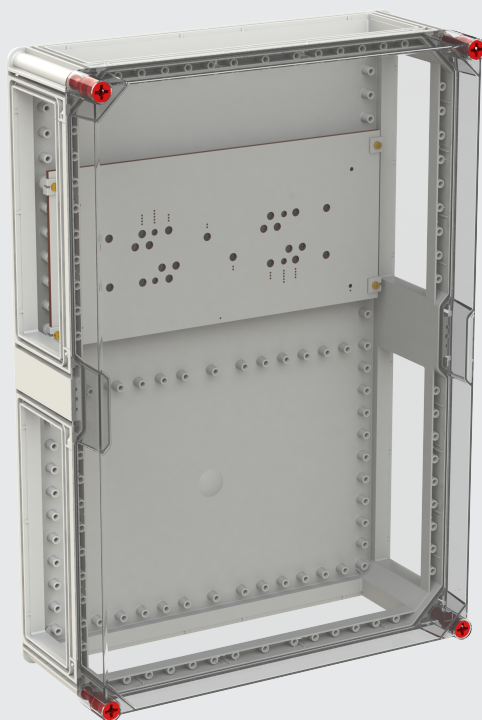


PRODUCT MANUAL

VMS - LV modular system

OFAZ - XLP



Contents

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Additional drawings and instructions can be found in the ABB Library:

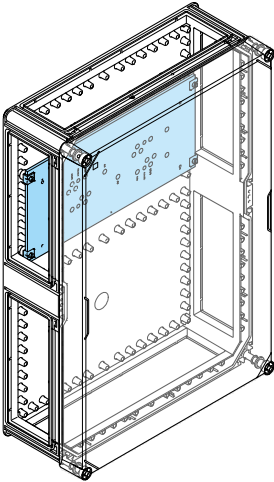


1 Icons

Icon	Description
	Warning / Caution
	Note
	Material - included
	Material - not included
	Tools
	Tightening torque (Nm)

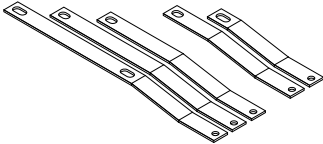
2 Material

2.1 Material - included

Box with mounting plate	SKU-codes	Description
	4TBV853636C0100	VMS 32H for: OFAZ00
	4TBV853658C0100	VMS 33 for: 1x/2x OFAZ00 1x XLP00 3p/4p - 2x XLP00 3p
	4TBV853659C0100	VMS 43V for: 1x/2x OFAZ00 1x XLP00 3p/4p - 2x XLP00 3p
	4TBV853660C0100	VMS 43V for: OFAZ1 XLP1 3p
	4TBV853672C0100	VMS 63H for: 1-4x OFAZ00 2x XLP00 3p/4p - 4x XLP00 3p
	4TBV853679C0100	VMS 63V for: OFAZ1 XLP1 3p
	4TBV853680C0100	VMS 64V for: OFAZ1/2/3 XLP1/2 3p/4p - XLP3 3p

2.2 Material - not included

2.2.1 CU strip sets



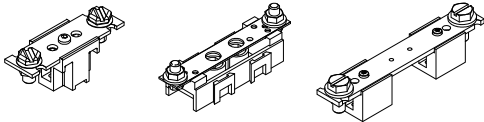
Device / VMS BOX	PHASE1-3	PE TOP / N BOT / PEN		N TOP / PE BOT	
OFAZ00 / VMS32H	4TBV854157C0100	4TBV854158C0100		4TBV854159C0100	
1x OFAZ00 / VMS33/63H	4TBV854160C0100	4TBV854161C0100		4TBV854162C0100	
2x/4x OFAZ00 / VMS33/63H	(2x/4x) 4TB-V854292C0100 (cable)	N.A. (cable)		N.A. (cable)	
OFAZ00 / VMS43V	4TBV854163C0100	4TBV854164C0100		4TBV854165C0100	
OFAZ1 / VMS43V/63V/64V	4TBV854166C0100	N.A. (cable)		N.A. (cable)	
OFAZ2 / VMS64V	4TBV854169C0100	4TBV854170C0100		4TBV854171C0100	
OFAZ3 / VMS64V	4TBV854172C0100	100% PE/N	4TBV854175C0100	100% PE/N	4TBV854176C0100
		50% PE	4TBV854170C0100	50% PE	4TBV854171C0100

Device / VMS BOX	PHASE1-3	PE TOP / N BOT / PEN		N TOP / PE BOT		N 4TH POL TOP		N 4TH POL BOT	
1x XLP00 / VMS33/63H	4TB- V854177C0100	4TBV854161C0100		4TBV854162C0100		4TBV854180C0100		4TBV854181C0100	
2x/4x XLP00 / VMS33/63H	(2x/4x) 4TB- V854292C0100 (cable)	N.A. (cable)		N.A. (cable)		N.A.		N.A.	
XLP00 / VMS43V	4TB- V854182C0100	4TBV854164C0100		4TBV854165C0100		4TBV854185C0100		4TBV854186C0100	
XLP1 / VMS43V/63V	4TB- V854187C0100	N.A. (cable)		N.A. (cable)		N.A.		N.A.	
XLP1 / VMS64V	4TB- V854187C0100	4TBV854188C0100		4TBV854189C0100		4TBV854190C0100		4TBV854191C0100	
XLP2 / VMS64V	4TB- V854192C0100	4TBV854170C0100		4TBV854171C0100		4TBV854195C0100		4TBV854196C0100	
XLP3 / VMS64V	4TB- V854197C0100	100% PE/N	4TBV8541 75C0100	100% PE/N	4TBV8541 76C0100	100% PE/N	N.A.	100% PE/N	N.A.
		50% PE	4TBV8541 70C0100	50% PE	4TBV8541 71C0100	50% PE	N.A.	50% PE	N.A.



Hardware for mounting the devices is not included!

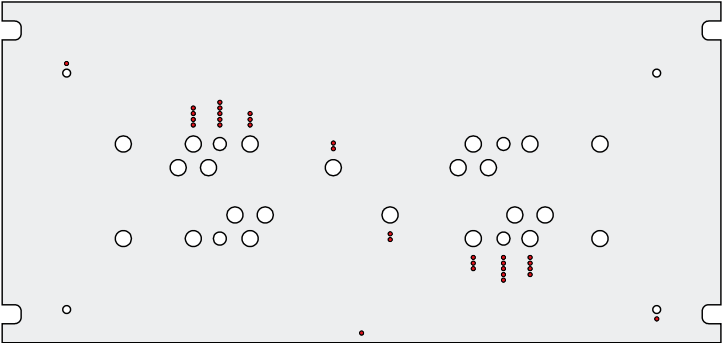
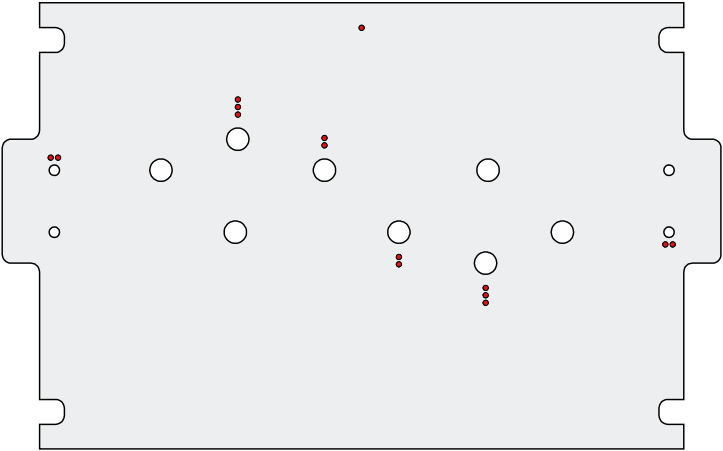
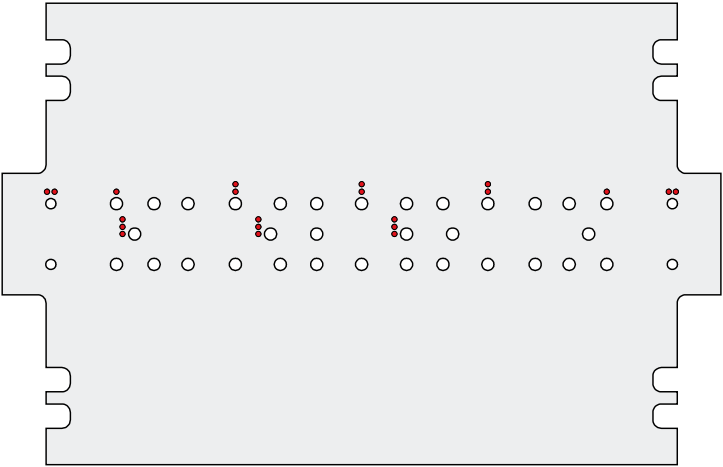
2.2.2 Terminals



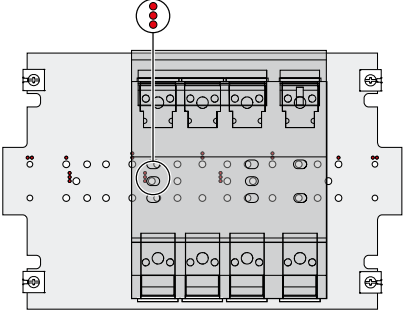
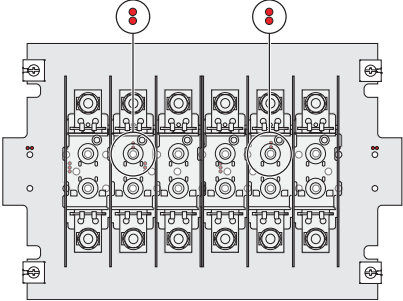
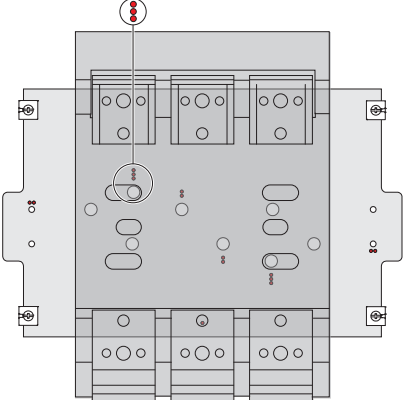
Standard terminals

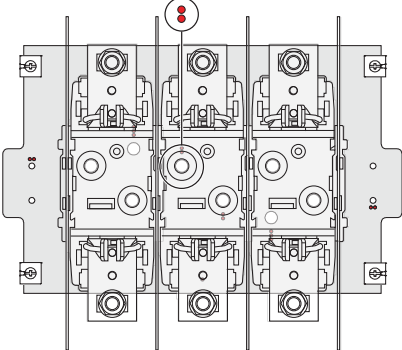
Device	Terminal SKU	Terminal Description
OFAZ00 / XLP00	4TBV853216C0100	Standard terminal 160A clamps
OFAZ00 / XLP00	4TBV853700C0100	Standard terminal 160A bolts
2x/4x OFAZ00 / 2x/4x XLP00 VMS33/63H OFAZ1 / XLP1 VMS63V	4TBV853780C0100	Standard terminal 250A small
OFAZ1 / XLP1 VMS64V	4TBV853217C0100	Standard terminal 250A big
OFAZ2/3 / XLP2/3	4TBV853218C0100	Standard terminal 630A big

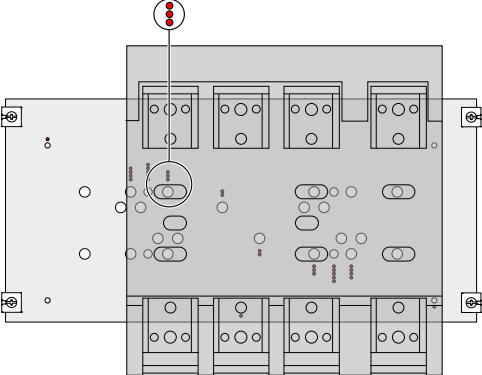
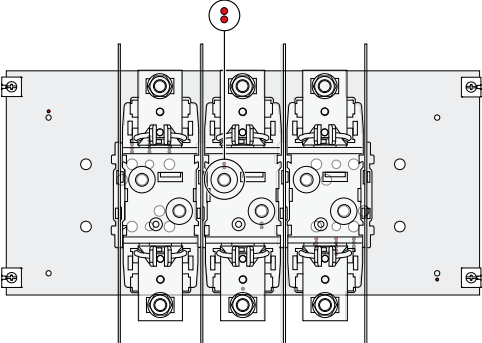
3 Mounting indications



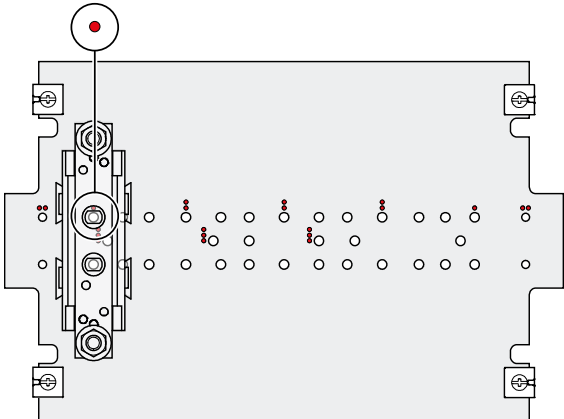
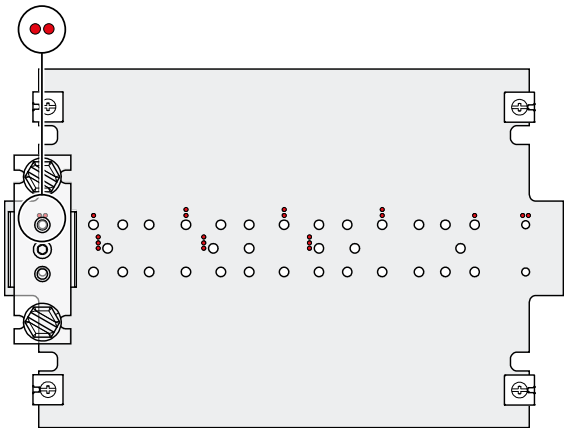
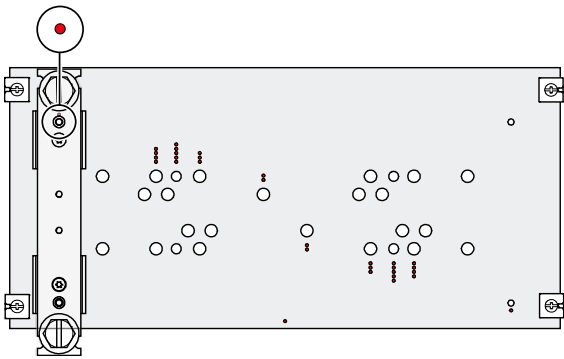
3.1 Mounting indications for fuse bases and fuse switch disconnectors

Description		
 The diagram shows a top-down view of the XLP00 fuse base. It is a rectangular component with four vertical slots for fuse tubes. A callout circle with two red dots points to the top center of the device.		XLP00 - 3p/4p
 The diagram shows a top-down view of the OFAZ00 fuse switch disconnector. It is a rectangular component with two rows of four circular fuse holders each. Two callout circles, each with two red dots, point to the top center and top right of the device.	OFAZ00	
Description		
 The diagram shows a top-down view of the XLP1 fuse base. It is a rectangular component with four vertical slots for fuse tubes. A callout circle with two red dots points to the top center of the device.		XLP1 - 3p/4p

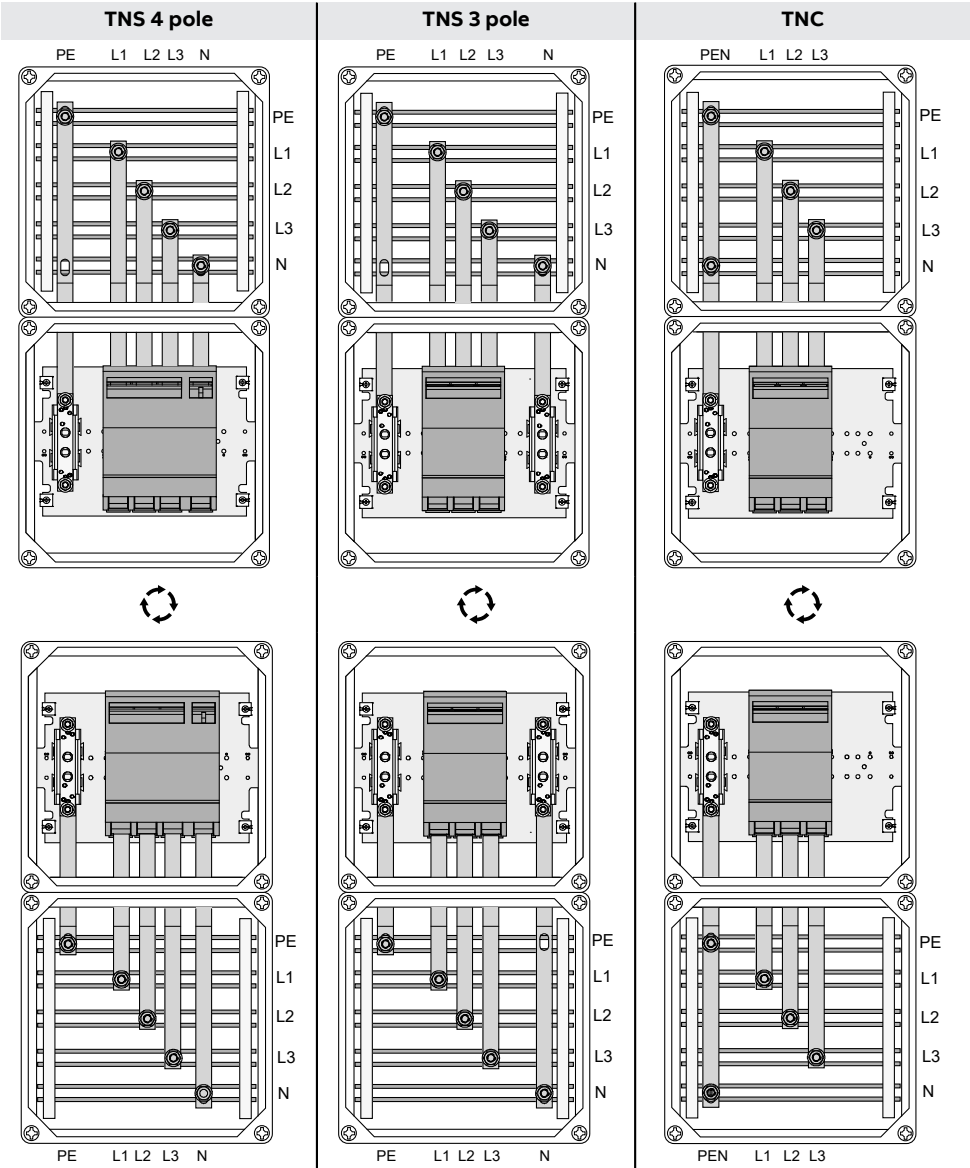
Description		
	OFAZ1	

Description				
		XLP1 - 3p/4p	XLP2 - 3p/4p	XLP3
	OFAZ1 OFAZ2 OFAZ3			

3.2 Mounting indications for terminals

Description	●	●●
	Std. TML 160A clamps Std. TML 160A bolts	
		Std.TML 250A small
	Std. TML 250A big Std. TML 630A big	

4 Network types



The copper strips version is shown here. This configuration also applies to a wired configuration.

5 Assembly steps

1. Material: overview



1 VMS base with mounting plate

2 Cover

3 Cover screws (4x)

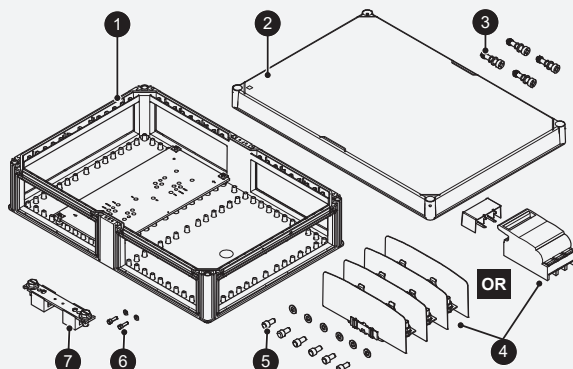


4 Fuse base **OR** Fuse switch disconnector with cable shroud

5 Device screws

6 Terminal screws (2x)

7 N/PE terminal



2. Mounting one (A) or two (B) fuse switch disconnectors on a mounting plate



See **Installation Instruction of fuse switch disconnectors** on how to open the device, enabling it for mounting:

XLP00:



XLP1:



XLP2:



XLP3:



1 Fuse switch disconnector

2 Screw + washer

3 Cable shroud



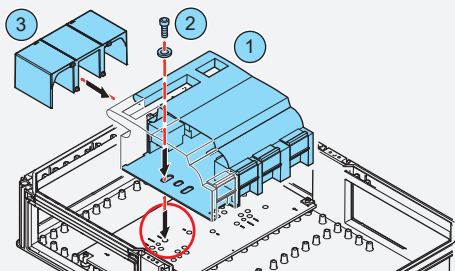
XLP00: M6 x 16 4 Nm

XLP1: M10 x 16 8 Nm

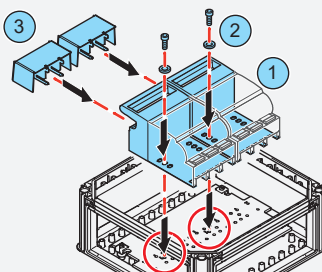
XLP2: M10 x 16 8 Nm

XLP3: M8 x 16 6 Nm

(A)



(B)



3. Mounting one (A) or two (B) fuse-bases on a mounting plate



- 1 Fuse base
- 2 Screw + washer



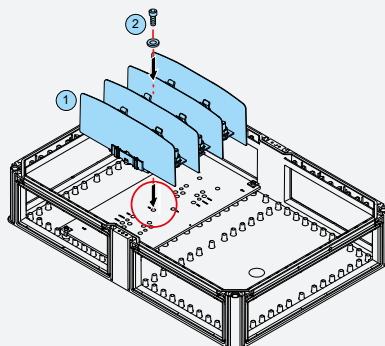
OFAZ00: M6 x 16 4 Nm

OFAZ1: M10 x 25 8 Nm

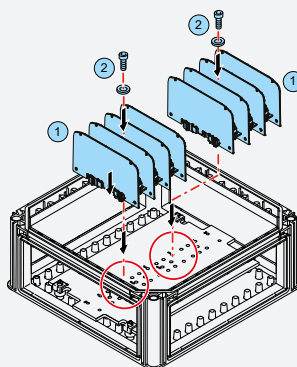
OFAZ2: M10 x 25 8 Nm

OFAZ3: M10 x 25 8 Nm

A



B



4. Mounting a standard terminal on a mounting plate



- 1 Terminal strip
- 2 Terminal bolt + washer (2x)



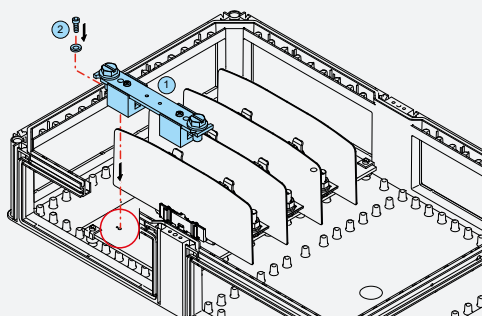
Std. TML 160A clamps M6 x 16 4 Nm

Std. TML 160A bolts M6 x 16 4 Nm

Std. TML 250A small M5 x 16 1.5 Nm

Std. TML 250A big M5 x 16 1.5 Nm

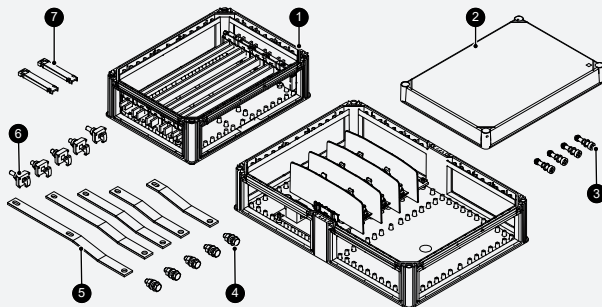
Std. TML 630A big M5 x 16 1.5 Nm



5. Installing the busbar box and box covers: overview



- 1 Busbar box
- 2 Busbar box cover
- 3 Busbar cover screws (4x)
- 4 Copper strip screws (5x)
- 5 Copper strips
- 6 Anchor bolts (5x)
- 7 Coupling dowels (2x)



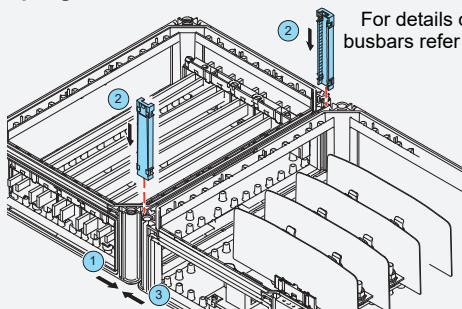
6. Installing the busbar box: connecting the boxes and inserting the coupling dowels



- 1 Busbar box
- 2 Coupling dowels (2x)



- 3 OFAZ device box



For details on assembly of busbars refer to the QR code



7. Connect the devices to the busbar box with copper strips (A) or with cables (B) or with a combination of copper strips and cables (C)



Make the connections to the device first and then to the busbar box.

See **Installation Instruction of fuse switch disconnectors** (page 11) on how to open the device, enabling connections of copper strips/ cables.



M8 15-22 Nm

M10 30-44 Nm

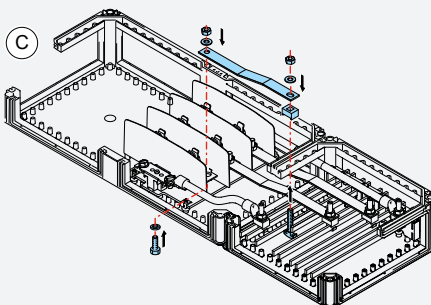
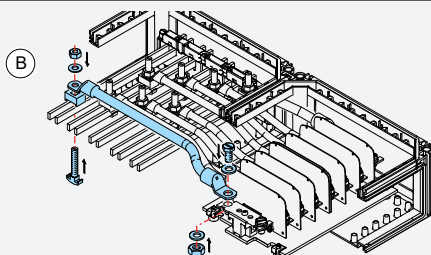
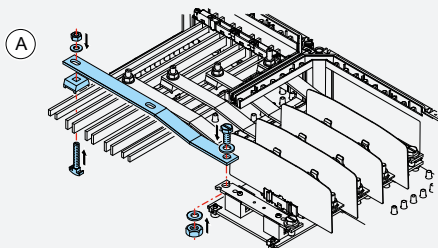
M12 50-75 Nm



When installing 2x XLP00/OFAZ00: connections can only be made with cables!



When installing XLP1/OFAZ1 in a VMS63: PE and N connections must be made with a cable. The phase connections can be made with copper strips.

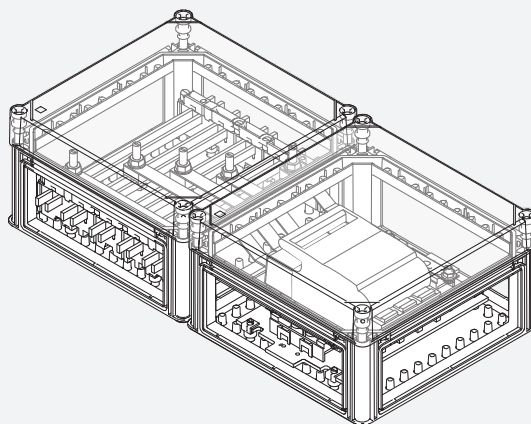


8. Fastening the busbar box cover and the VMS box cover

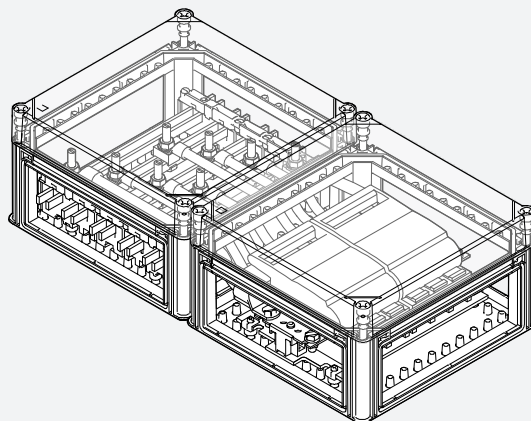
1. For both covers, snap the cover screws in the four corner holes. The cover screws will be captive.
2. Fit the appropriate cover on the correct box (one turn on the screws, max. 2.5 Nm).
3. If necessary, stick the double isolation symbol on the cover.

9. Installation complete for XLP:

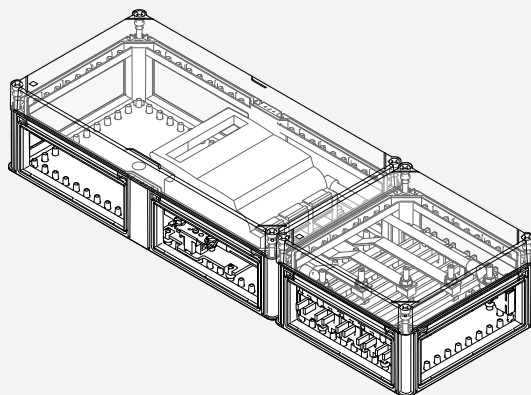
Copper strips



Cables

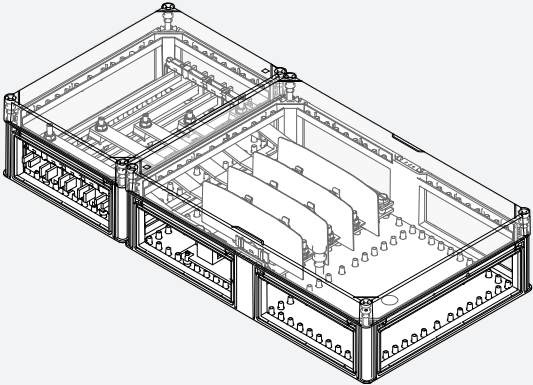


Combination of copper strips & cables

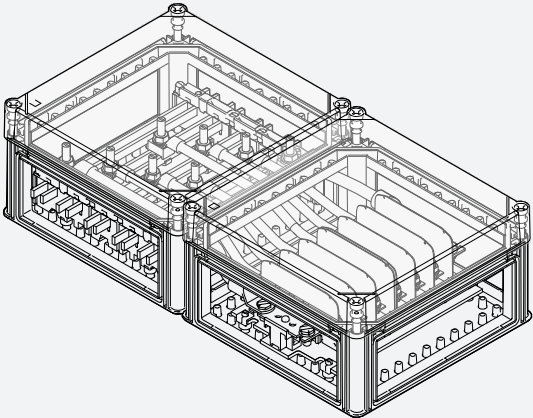


10. Installation complete for OFAZ:

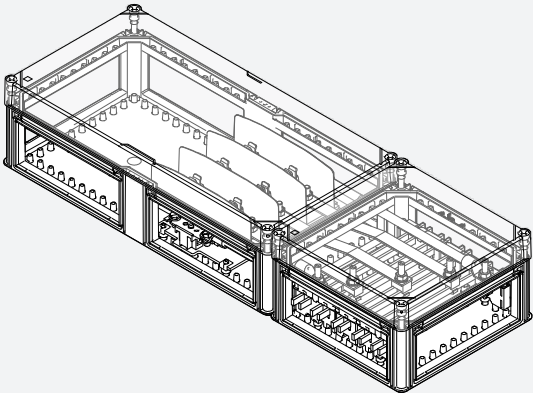
Copper strips



Cables



Combination of copper strips & cables



Notes:

[illegible]

Notes:

[illegible]

Notes:

[illegible]



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